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# **Group 1 Air Distribution**

Group 1 Air Distribution

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## 115 ZIPP-R Lock 2 Ft. Pipe



All the features of the patented ZIPP-R Lock Pipe are incorporated in this 24" length. It is manufactured of 24, 26, 28, and 30 gauge steel to meet a variety of applications. Ideal for venting flue connections and for stubbing in heating and air conditioning runs.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
25	JT	10242	115 5IN 24GA PIPE	—	—
10	JT	10243	115 6IN 24GA PIPE BNDL	—	—
10	JT	10244	115 7IN 24GA PIPE	—	—
10	JT	10245	115 8IN 24GA PIPE	—	—
10	JT	10246	115 9IN 24GA PIPE	—	—
10	JT	10247	115 10IN 24GA PIPE	—	—
10	JT	10248	115 12IN 24GA PIPE	—	—
10	JT	10250	115 16IN 24GA PIPE	—	—
25	JT	10261	115 3IN 26GA PIPE	—	—
25	JT	10262	115 4IN 26GA PIPE	—	—
25	JT	10263	115 5IN 26GA PIPE	—	—
25	JT	10264	115 6IN 26GA PIPE	—	—
25	JT	10265	115 7IN 26GA PIPE	—	—
25	JT	10266	115 8IN 26GA PIPE	—	—
25	JT	10267	115 9IN 26GA PIPE	—	—
25	JT	10268	115 10IN 26GA PIPE	—	—
10	JT	10269	115 12IN 26GA PIPE	—	—
10	JT	10270	115 14IN 26GA PIPE	—	—
10	JT	10271	115 16IN 26GA PIPE	—	—
10	JT	10272	115 18IN 26GA PIPE	—	—
25	JT	10281	115 3IN 28GA PIPE	—	—
25	JT	10282	115 4IN 28GA PIPE	—	—
25	JT	10283	115 5IN 28GA PIPE	—	—
25	JT	10284	115 6IN 28GA PIPE	—	—
10	JT	10293	115 4IN X 100IN 30GA GALV PIPE BNDL	—	—
25	JT	10303	115 3IN 30GA PIPE	—	—
25	JT	10304	115 4IN 30GA PIPE	—	—
25	JT	10305	115 5IN 30GA PIPE	—	—
25	JT	10306	115 6IN 30GA PIPE	—	—
25	JT	10307	115 7IN 30GA PIPE	—	—
25	JT	10308	115 8IN 30GA PIPE	—	—
25	JT	10309	115 9IN 30GA PIPE	—	—
25	JT	10310	115 10IN 30GA PIPE	—	—
25	JT	10311	115 12IN 30GA PIPE	—	—



## 115 Aluminum Pipe, 2 Foot



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
25	JT	13451	115 4IN ALUM PIPE	—	—



## 931 and 932 ZIPP-R Pipe and Fittings

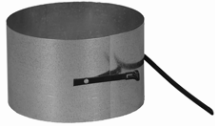


931/932

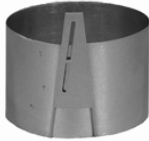


140

ZIPP-R pipe is the original long length pipe with the patented ZIPP-R lock. The crimp is tapered to make assembly simple and quick. Positive positioning of the lock insures installed runs stay together when put together. Nested for quicker removal from the bundle.



140C



933

### 931 and 932 ZIPP-R Lock Pipe

Price Per CFT

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
50	FT	10695	931-50 6IN 10FT 30GA PIPE 50FT	—	—
50	FT	10691	931-50 6IN 10FT PIPE BNDL (50FT)	—	—
100	FT	10696	931 4IN 10FT 30GA PIPE	—	—
100	FT	10697	931 5IN 10FT 30GA PIPE	—	—
100	FT	10698	931 6IN 10FT 30GA PIPE	—	—
50	FT	10699	931 7IN 10FT 30GA PIPE	—	—
50	FT	10700	931 8IN 10FT 30GA PIPE BNDLD	—	—
50	FT	10770	932 4IN 5FT 26GA PIPE	—	—
50	FT	10769	932 5IN 5FT 26GA PIPE	—	—
50	FT	10724	932 6IN 5FT 26GA PIPE	—	—
50	FT	10725	932 7IN 5FT 26GA PIPE	—	—
50	FT	10726	932 8IN 5FT 26GA PIPE	—	—
50	FT	10727	932 9IN 5FT 26GA PIPE	—	—
50	FT	10728	932 10IN 5FT 26GA PIPE	—	—
25	FT	10729	932 12IN 5FT 26GA PIPE	—	—
25	FT	10759	932 14IN 5FT 26GA PIPE	—	—
25	FT	10760	932 16IN 5FT 26GA PIPE	—	—
25	FT	10747	932 3IN 5FT 30GA PIPE BNDL	—	—
50	FT	10736	932 4IN 5FT 30GA PIPE	—	—
50	FT	10737	932 5IN 5FT 30GA PIPE	—	—
50	FT	10738	932 6IN 5FT 30GA PIPE	—	—
50	FT	15662	932 6IN 5FT 30GA PIPE BNDL	—	—
50	FT	10739	932 7IN 5FT 30GA PIPE	—	—
50	FT	10740	932 8IN 5FT 30GA PIPE	—	—
50	FT	10741	932 9IN 5FT 30GA PIPE	—	—
50	FT	10742	932 10IN 5FT 30GA PIPE	—	—
50	FT	10743	932 12IN 5FT 30GA PIPE	—	—

### 140 Drawband

12	EA	10422	140 5IN DRAWBAND	—	—
12	EA	10423	140 6IN DRAWBAND	—	—
12	EA	10424	140 7IN DRAWBAND	—	—
12	EA	10425	140 8IN DRAWBAND	—	—
12	EA	10428	140 12IN DRAWBAND	—	—
12	EA	10429	140 14IN DRAWBAND	—	—
12	EA	10430	140 16IN DRAWBAND	—	—

### 140C Drawband with Plastic Clamp

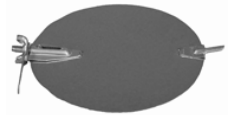
24	EA	11150	140C 6IN DRAWBAND	—	—
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### 933 ZIPP-R Pipe Connector (Patent #2692417)

25	EA	13159	933 6IN CONN	—	—
25	EA	13160	933 7IN CONN	—	—



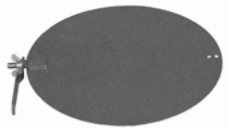
### 928 E-Z On Damper With Easy On Garret Clips



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	13128	928 4IN DAMPER	—	—
24	EA	13129	928 5IN DAMPER	—	—
24	EA	13130	928 6IN DAMPER	—	—
24	EA	13131	928 7IN DAMPER	—	—
24	EA	13132	928 8IN DAMPER	—	—
24	EA	13134	928 10IN DAMPER	—	—
24	EA	13135	928 12IN DAMPER	—	—
24	EA	13136	928 14IN DAMPER	—	—
24	EA	13138	928 18IN DAMPER	—	—



### 925 Econo Damper



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
50	EA	13091	925 6IN DAMPER	—	—
50	EA	13092	925 7IN DAMPER	—	—
50	EA	13093	925 8IN DAMPER	—	—



### D6100 Single Bearing Damper

Malco dampers are designed for forced air systems. Use only for air handling applications where temperature does not exceed 350° F.



#### D6100 Single Bearing Damper

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	CTN	80520	D6100 6" DAMPER 100/CTN	—

#### Damper Handles and Wing Nuts

1	PKG	80521	H1100 DAMPER HANDLES 100/PKG	—
1	PKG	80522	WN100 DAMPER WING NUTS 100/PKG	—



## 120 Adjustable Elbows

- 90°
- 4-piece
- Manufactured to high standards.
- Only quality prime steel used.
- Every elbow checked for adjustability before cartoning.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	10940	120 5IN 24GA ELBOW	—	—
12	EA	10941	120 6IN 24GA ELBOW	—	—
12	EA	10942	120 7IN 24GA ELBOW	—	—
12	EA	10943	120 8IN 24GA ELBOW	—	—
12	EA	10944	120 9IN 24GA ELBOW	—	—
12	EA	10945	120 10IN 24GA ELBOW	—	—
12	EA	10946	120 12IN 24GA ELBOW	—	—
1	EA	10948	120 16IN 24GA ELBOW	—	—
1	EA	10949	120 18IN 24GA ELBOW	—	—
24	EA	10958	120 3IN 26GA ELBOW	—	—
24	EA	10959	120 4IN 26GA ELBOW	—	—
12	EA	10960	120 5IN 26GA ELBOW	—	—
12	EA	10961	120 6IN 26GA ELBOW	—	—
12	EA	10962	120 7IN 26GA ELBOW	—	—
12	EA	10963	120 8IN 26GA ELBOW	—	—
12	EA	10964	120 9IN 26GA ELBOW	—	—
12	EA	10965	120 10IN 26GA ELBOW	—	—
12	EA	10966	120 12IN 26GA ELBOW	—	—
1	EA	10967	120 14IN 26GA ELBOW	—	—
1	EA	10968	120 16IN 26GA ELBOW	—	—
1	EA	10969	120 18IN 26GA ELBOW	—	—
24	EA	10979	120 3IN 28GA ELBOW	—	—
24	EA	10980	120 4IN 28GA ELBOW	—	—
12	EA	10981	120 5IN 28GA ELBOW	—	—
12	EA	10982	120 6IN 28GA ELBOW	—	—
12	EA	10987	120 12IN 28GA ELBOW	—	—
24	EA	10999	120 3IN 30GA ELBOW	—	—
24	EA	11000	120 4IN 30GA ELBOW	—	—
12	EA	11001	120 5IN 30GA ELBOW	—	—
20	EA	11003	120 6IN 30GA ELBOW	—	—
12	EA	11004	120 7IN 30GA ELBOW	—	—
12	EA	11005	120 8IN 30GA ELBOW	—	—
12	EA	11006	120 9IN 30GA ELBOW	—	—
12	EA	11007	120 10IN 30GA ELBOW	—	—
12	EA	11008	120 12IN 30GA ELBOW	—	—



## 120 Adjustable Elbows, Aluminum

- 90°
- 4-piece



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	13470	120 3IN ALUM ELBOW	—	—
24	EA	13471	120 4IN ALUM ELBOW	—	—



## 130 Adjustable Angle

- 45°
- 2-piece



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	11074	130 6IN 24GA ANGLE	—	—
24	EA	11075	130 7IN 24GA ANGLE	—	—
24	EA	11076	130 8IN 24GA ANGLE	—	—
24	EA	11077	130 9IN 24GA ANGLE	—	—
24	EA	11095	130 5IN 26GA ANGLE	—	—
24	EA	11096	130 6IN 26GA ANGLE	—	—
24	EA	11097	130 7IN 26GA ANGLE	—	—
24	EA	11098	130 8IN 26GA ANGLE	—	—
24	EA	11099	130 9IN 26GA ANGLE	—	—
24	EA	11100	130 10IN 26GA ANGLE	—	—
12	EA	11101	130 12IN 26GA ANGLE	—	—
1	EA	11102	130 14IN 26GA ANGLE	—	—
1	EA	11103	130 16IN 26GA ANGLE	—	—
1	EA	11104	130 18IN 26GA ANGLE	—	—
24	EA	11132	130 5IN 30GA ANGLE	—	—
24	EA	11133	130 6IN 30GA ANGLE	—	—
24	EA	11134	130 7IN 30GA ANGLE	—	—
24	EA	11135	130 8IN 30GA ANGLE	—	—
24	EA	11136	130 9IN 30GA ANGLE	—	—
12	EA	11138	130 12IN 30GA ANGLE	—	—



## Smooth-Flow Tee Joints and Y-Branches



145W



150F



151F

### 145W Y-Branches (Warm Air Installations)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	15008	145W 6X4X4 Y-BRANCH	—	—
12	EA	15011	145W 6X6X6 Y BRANCH	—	—
12	EA	15012	145W 7X6X4 Y-BRANCH	—	—
12	EA	15016	145W 7X5X5 Y-BRANCH	—	—
12	EA	11194	145W 8X6X6 Y-BRANCH	—	—
12	EA	15023	145W 8X7X6 Y-BRANCH	—	—
12	EA	11195	145W 9X7X7 Y-BRANCH	—	—
12	EA	15027	145W 9X8X6 Y-BRANCH	—	—
12	EA	11196	145W 10X8X8 Y-BRANCH	—	—
12	EA	11197	145W 12X10X10 Y-BRANCH	—	—
12	EA	15028	145W 14X10X10 Y BRANCH	—	—
6	EA	11198	145W 14X12X12 Y-BRANCH	—	—

### 150-F 90° Tee Joints (Flue Installations)

12	EA	11213	150-F 3X3X3 TEE	—	—
12	EA	15040	150-F 4X3X3 TEE	—	—
12	EA	11214	150-F 4X4X4 TEE	—	—
12	EA	11212	150-F 5X4X3 TEE	—	—
12	EA	15045	150-F 5X4X4 TEE	—	—
12	EA	11215	150-F 5X5X3 TEE	—	—
12	EA	15047	150-F 5X5X4 TEE	—	—
12	EA	11216	150-F 5X5X5 TEE	—	—
12	EA	15052	150-F 6X4X3 TEE	—	—
12	EA	11217	150-F 6X5X3 TEE	—	—
12	EA	11211	150-F 6X5X4 TEE	—	—
12	EA	11218	150-F 6X6X3 TEE	—	—
12	EA	11219	150-F 6X6X4 TEE	—	—
12	EA	11220	150-F 6X6X6 TEE	—	—
12	EA	11221	150-F 7X5X3 TEE	—	—
12	EA	11222	150-F 7X5X4 TEE	—	—
12	EA	11223	150-F 7X6X3 TEE	—	—
12	EA	11224	150-F 7X6X4 TEE	—	—
12	EA	11225	150-F 7X7X3 TEE	—	—
12	EA	11226	150-F 7X7X4 TEE	—	—
12	EA	11228	150-F 7X7X7 TEE	—	—
12	EA	11229	150-F 8X8X6 TEE	—	—
12	EA	11230	150-F 8X8X8 TEE	—	—
6	EA	11231	150-F 9X9X9 TEE	—	—
6	EA	11232	150-F 10X10X10 TEE	—	—
6	EA	11233	150-F 12X12X12 TEE	—	—
3	EA	11234	150-F 14X14X14 TEE	—	—
1	EA	15136	150-F 16X16X16 TEE	—	—
1	EA	15146	150-F 18X18X18 TEE	—	—

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**151-F 45° Tee Joints (Flue Installations)**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	15228	151-F 4X3X3 45 DEG TEE	—	—
12	EA	15233	151F 5X4X3 45 DEG TEE	—	—
12	EA	15234	151F 5X4X4 45 DEG TEE	—	—
12	EA	15235	151F 5X5X3 45 DEG TEE	—	—
12	EA	15239	151F 6X4X3 45 DEG TEE	—	—
12	EA	15240	151F 6X4X4 45 DEG FLUE TEE	—	—
12	EA	15241	151F 6X5X3 45 DEG TEE	—	—
12	EA	15242	151F 6X5X4 45 DEG TEE	—	—
6	EA	15248	151-F 6X6X6 45 DEG TEE	—	—
12	EA	15257	151-F 7X4X4 45 DEG TEE	—	—
12	EA	15261	151-F 7X6X4 45 DEG TEE	—	—
12	EA	15263	151-F 7X7X4 45 DEG TEE	—	—
12	EA	11205	151F 8X6X6 45DG TEE JOINT	—	—
12	EA	15272	151-F 8X7X4 45 DEG TEE	—	—



## 160 and 161 Cleanout Caps



160

161

### 160 with Crimped Collar

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	11253	160 3IN CLEANOUT CAP	—	—
12	EA	11254	160 4IN CLEANOUT CAP	—	—
12	EA	11255	160 5IN CLEANOUT CAP	—	—
12	EA	11256	160 6IN CLEANOUT CAP	—	—
12	EA	11257	160 7IN CLEANOUT CAP	—	—
12	EA	11258	160 8IN CLEANOUT CAP	—	—
12	EA	11259	160 9IN CLEANOUT CAP	—	—
12	EA	11260	160 10IN CLEANOUT CAP	—	—
12	EA	11261	160 12IN CLEANOUT CAP	—	—
12	EA	11262	160 14IN CLEANOUT CAP	—	—
12	EA	11263	160 16IN CLEANOUT CAP	—	—
12	EA	11264	160 18IN CLEANOUT CAP	—	—

### 161 with Plain Collar

12	EA	11273	161 3IN PLAIN CLEANOUT CAP	—	—
12	EA	11274	161 4IN PLAIN CLEANOUT CAP	—	—
12	EA	11275	161 5IN PLAIN CLEANOUT CAP	—	—
12	EA	11276	161 6IN PLAIN CLEANOUT CAP	—	—
12	EA	11277	161 7IN PLAIN CLEANOUT CAP	—	—
12	EA	11278	161 8IN PLAIN CLEANOUT CAP	—	—
12	EA	11279	161 9IN PLAIN CLEANOUT CAP	—	—
12	EA	11280	161 10IN PLAIN CLEANOUT CAP	—	—
12	EA	11281	161 12IN PLAIN CLEANOUT CAP	—	—
12	EA	11282	161 14IN PLAIN CLEANOUT CAP	—	—
12	EA	11283	161 16IN PLAIN CLEANOUT CAP	—	—
12	EA	11284	161 18IN PLAIN CLEANOUT CAP	—	—



## 164 Adjustable Safety Collars



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	11315	164 4IN SAFETY COLLAR	—	—
12	EA	11317	164 6IN SAFETY COLLAR	—	—
12	EA	11318	164 7IN SAFETY COLLAR	—	—
12	EA	11319	164 8IN SAFETY COLLAR	—	—





## 180 and 181 Reducers

- Little resistance.
- Low turbulence.
- Smooth air flow.
- Cut inventory and save space with plain end collars.



180



181

### 180 Reducers, Plain Ends

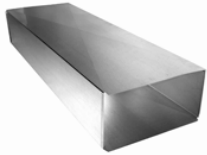
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	11360	180 4X3 REDUCER	—	—
12	EA	11361	180 5X3 REDUCER	—	—
12	EA	11362	180 5X4 REDUCER	—	—
12	EA	11363	180 6X3 REDUCER	—	—
12	EA	11364	180 6X4 REDUCER	—	—
12	EA	11365	180 6X5 REDUCER	—	—
12	EA	11367	180 7X4 REDUCER	—	—
12	EA	11368	180 7X5 REDUCER	—	—
12	EA	11369	180 7X6 REDUCER	—	—
12	EA	11370	180 8X4 REDUCER	—	—
12	EA	11371	180 8X5 REDUCER	—	—
12	EA	11372	180 8X6 REDUCER	—	—
12	EA	11373	180 8X7 REDUCER	—	—
12	EA	11374	180 9X5 REDUCER	—	—
12	EA	11375	180 9X6 REDUCER	—	—
12	EA	11376	180 9X7 REDUCER	—	—
12	EA	11377	180 9X8 REDUCER	—	—
12	EA	11378	180 10X5 REDUCER	—	—
12	EA	11379	180 10X6 REDUCER	—	—
12	EA	11380	180 10X7 REDUCER	—	—
12	EA	11381	180 10X8 REDUCER	—	—
12	EA	11382	180 10X9 REDUCER	—	—
12	EA	11383	180 12X6 REDUCER	—	—
12	EA	11384	180 12X7 REDUCER	—	—
12	EA	11385	180 12X8 REDUCER	—	—
12	EA	11387	180 12X10 REDUCER	—	—

### 181 Tapered Reducers, Plain Ends

12	EA	11500	181 4X3 TAPERED REDUCER	—	—
12	EA	11501	181 5X3 TAPERED REDUCER	—	—
12	EA	11502	181 5X4 TAPERED REDUCER	—	—
12	EA	11503	181 6X3 TAPERED REDUCER	—	—
12	EA	11504	181 6X4 TAPERED REDUCER	—	—
12	EA	11505	181 6X5 TAPERED REDUCER	—	—
12	EA	11506	181 7X3 TAPERED REDUCER	—	—
12	EA	11507	181 7X4 TAPERED REDUCER	—	—
12	EA	11508	181 7X5 TAPERED REDUCER	—	—
12	EA	11509	181 7X6 TAPERED REDUCER	—	—
12	EA	11511	181 8X5 TAPERED REDUCER	—	—
12	EA	11512	181 8X6 TAPERED REDUCER	—	—
12	EA	11513	181 8X7 TAPERED REDUCER	—	—
12	EA	11515	181 9X6 TAPERED REDUCER	—	—
12	EA	11516	181 9X7 TAPERED REDUCER	—	—
12	EA	11517	181 9X8 TAPERED REDUCER	—	—
12	EA	11519	181 10X5 TAPERED REDUCER	—	—
12	EA	11520	181 10X6 TAPERED REDUCER	—	—
12	EA	11521	181 10X7 TAPERED REDUCER	—	—
12	EA	11522	181 10X8 TAPERED REDUCER	—	—
12	EA	15406	181 10X9 TAPERED REDUCER	—	—
12	EA	15408	181 11X8 TAPERED REDUCER	—	—
12	EA	11525	181 12X8 TAPERED REDUCER	—	—
12	EA	11527	181 12X10 TAPERED REDUCER	—	—
12	EA	11528	181 14X12 TAPERED REDUCER	—	—
12	EA	15414	181 14X8 TAPERED REDUCER	—	—
12	EA	15425	181 16X12 TAPERED REDUCER	—	—
12	EA	15426	181 16X14 TAPERED REDUCER	—	—



### 636 Trunkline Duct with ZIPP-R Lock Cartoned, with S Hooks and Drives

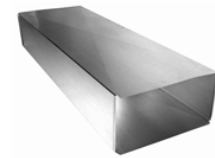


- Eliminates duct boom.
- Whisper quiet air movement.
- Manufactured with prime galvanized steel.
- ZIPP-R lock edge for a quick positive lock.
- Less metal movement than standard cross broken duct.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
7	EA	10442	636-36 8X8 DUCT W/S&D	—	—
7	EA	10443	636-36 10X8 DUCT W/S&D	—	—
7	EA	10444	636-36 12X8 DUCT W/S&D	—	—
7	EA	10445	636-36 14X8 DUCT W/S&D	—	—
7	EA	10446	636-36 16X8 DUCT W/S&D	—	—
7	EA	10447	636-36 18X8 DUCT W/S&D	—	—
7	EA	10448	636-36 20X8 DUCT W/S&D	—	—
7	EA	10449	636-36 22X8 DUCT W/S&D	—	—
7	EA	10450	636-36 24X8 DUCT W/S&D	—	—



### 636 Trunkline Duct with ZIPP-R Lock Racked



#### 636-48 Racked: 48 In. Long, (Uncartoned), 8"

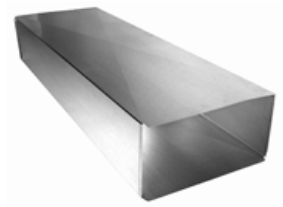
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6
120	EA	10315	636-48 8X8 DUCT W/S&D	—	—
120	EA	10316	636-48 10X8 DUCT W/S&D	—	—
115	EA	10317	636-48 12X8 DUCT W/S&D	—	—
115	EA	10318	636-48 14X8 DUCT W/S&D	—	—
100	EA	10319	636-48 16X8 DUCT W/S&D	—	—
90	EA	10320	636-48 18X8 DUCT W/S&D	—	—
70	EA	10321	636-48 20X8 DUCT W/S&D	—	—
70	EA	10322	636-48 22X8 DUCT W/S&D	—	—
70	EA	10323	636-48 24X8 DUCT W/S&D	—	—

#### 636-60 Racked: 60 In. Long, (Uncartoned), 8"

120	EA	10824	636-60 8X8 DUCT W/S&D	—	—
120	EA	10825	636-60 10X8 DUCT W/S&D	—	—
115	EA	10826	636-60 12X8 DUCT W/S&D	—	—
100	EA	10827	636-60 14X8 DUCT W/S&D	—	—
90	EA	10828	636-60 16X8 DUCT W/S&D	—	—
80	EA	10829	636-60 18X8 DUCT W/S&D	—	—
70	EA	10830	636-60 20X8 DUCT W/S&D	—	—
70	EA	10831	636-60 22X8 DUCT W/S&D	—	—
70	EA	10832	636-60 24X8 DUCT W/S&D	—	—



## 636 Trunkline Duct with ZIPP-R Lock Uncartoned, Less S and Drives



- Eliminates duct boom.
- Whisper quiet air movement.
- Manufactured with prime galvanized steel.
- ZIPP-R lock edge for a quick positive lock.
- Less metal movement than standard cross broken duct.

### 636-36 Trunkline: 36 In. Long

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
7	EA	10480	636-36 4X8 DUCT	—	—
7	EA	10481	636-36 6X8 DUCT	—	—
3	EA	10491	636-36 26X8 DUCT	—	—
3	EA	10492	636-36 28X8 DUCT	—	—
3	EA	10493	636-36 30X8 DUCT	—	—

### 636-48 Trunkline: 48 In. Long

5	EA	10880	636-48 10X10 DUCT	—	—
5	EA	10881	636-48 12X10 DUCT	—	—
5	EA	10882	636-48 14X10 DUCT	—	—
5	EA	10883	636-48 16X10 DUCT	—	—
5	EA	10884	636-48 18X10 DUCT	—	—
2	EA	10345	636-48 20 X 10 DUCT	—	—
2	EA	10346	636-48 25 X 10 DUCT	—	—
5	JT	10893	636-48 20X12 DUCT	—	—
5	JT	10894	636-48 22X12 DUCT	—	—
5	JT	10895	636-48 24X12 DUCT	—	—
5	JT	10896	636-48 26X12 DUCT	—	—
5	JT	10897	636-48 28X12 DUCT	—	—
5	JT	10898	636-48 30X12 DUCT	—	—

### 636-60, Trunkline: 60 In. Long

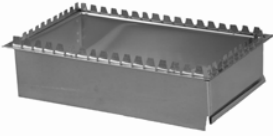
3	EA	10511	636-60 26X8 DUCT	—	—
3	EA	10512	636-60 28X8 DUCT	—	—
3	EA	10513	636-60 30X8 DUCT	—	—
5	EA	10852	636-60 10X10 DUCT	—	—
5	EA	10861	636-60 12X10 DUCT	—	—
1	EA	10862	636-60 14X10 DUCT	—	—
3	EA	10853	636-60 16X10 DUCT	—	—
3	EA	10854	636-60 18X10 DUCT	—	—
3	EA	10855	636-60 20X10 DUCT	—	—
3	EA	10856	636-60 22X10 DUCT	—	—
3	EA	10857	636-60 24X10 DUCT	—	—
3	EA	10858	636-60 26X10 DUCT	—	—
3	EA	10859	636-60 28X10 DUCT	—	—
1	EA	10860	636-60 30X10 DUCT	—	—
5	EA	10899	636-60 24X12 DUCT	—	—

### 636-96 Trunkline: 96 In. Long

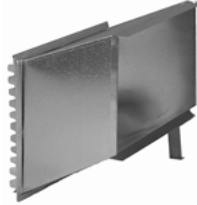
3	EA	10522	636-96 8X8 DUCT	—	—
3	EA	10523	636-96 10X8 DUCT	—	—
3	EA	10524	636-96 12X8 DUCT	—	—
4	EA	10525	636-96 14X8 DUCT	—	—
3	EA	10526	636-96 16X8 DUCT	—	—
3	EA	10527	636-96 18X8 DUCT	—	—
3	EA	10528	636-96 20X8 DUCT	—	—
3	EA	10529	636-96 22X8 DUCT	—	—
3	EA	10530	636-96 24X8 DUCT	—	—
3	EA	10553	636-96 10X10 DUCT	—	—
3	EA	10554	636-96 12X10 DUCT	—	—
3	EA	10555	636-96 14X10 DUCT	—	—
3	EA	10556	636-96 16X10 DUCT	—	—
3	EA	10557	636-96 18X10 DUCT	—	—
3	EA	10558	636-96 20X10 DUCT	—	—
3	EA	10559	636-96 24X10 DUCT	—	—



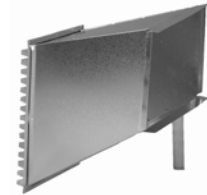
## 601, 602, 603C Trunkline Products



601



602



603C

### 601 Trunkline Starting Collar

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	11831	601 8X8 RA START COLLAR	—	—
12	EA	11833	601 10X8 RA START COLLAR	—	—
12	EA	11835	601 12X8 RA START COLLAR	—	—
12	EA	11840	601 14X8 RA START COLLAR	—	—
12	EA	11842	601 16X8 RA START COLLAR	—	—
6	EA	11844	601 18X8 RA START COLLAR	—	—
6	EA	11847	601 20X8 RA START COLLAR	—	—
6	EA	11848	601 22X8 RA START COLLAR	—	—
6	EA	11849	601 24X8 RA START COLLAR	—	—
6	EA	11850	601 26X8 RA START COLLAR	—	—
6	EA	11868	601 10X10 RA START COLLAR	—	—
6	EA	11869	601 12X10 RA START COLLAR	—	—
6	EA	11870	601 14X10 RA START COLLAR	—	—
3	EA	11813	601 16X10 RA START COLLAR	—	—
3	EA	11814	601 18X10 RA START COLLAR	—	—
6	EA	11845	601 20X10 RA START COLLAR	—	—
3	EA	11837	601 22X10 RA START COLLAR	—	—
3	EA	11841	601 24X10 RA START COLLAR	—	—
4	EA	11843	601 26X10 RA START COLLAR	—	—
4	EA	11846	601 28X10 RA START COLLAR	—	—
4	EA	11871	601 30X10 RA START COLLAR	—	—

### 602 Offset Trunkline Starting Collar

12	EA	11855	602 8X8 TAKEOFF	—	—
12	EA	11856	602 10X8 TAKEOFF	—	—
12	EA	11857	602 12X8 TAKEOFF	—	—
12	EA	11858	602 14X8 TAKEOFF	—	—
12	EA	11859	602 16X8 TAKEOFF	—	—
6	EA	11860	602 18X8 TAKEOFF	—	—
6	EA	11861	602 20X8 TAKEOFF	—	—
6	EA	11862	602 22X8 TAKEOFF	—	—
6	EA	11863	602 24X8 TAKEOFF	—	—
6	EA	11866	602 30X8 TAKEOFF	—	—

**603C Transition Trunkline Starting Collar**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	11873	603C 10X13 16X8 COLLAR	—	—
6	EA	11874	603C 10X15 18X8 COLLAR	—	—
6	EA	11875	603C 10X16 20X8 COLLAR	—	—
6	EA	11876	603C 10X18 22X8 COLLAR	—	—
3	EA	11877	603C 10X20 24X8 COLLAR	—	—
3	EA	12010	603C 15X16 24X8 COLLAR	—	—
3	EA	12012	603C 15X16 30X8 COLLAR	—	—
12	EA	12041	603C 10X12 14X8 COLLAR W/2IN RISE	—	—
6	EA	12042	603C 10X13 16X8 COLLAR W/2IN RISE	—	—
6	EA	12043	603C 10X15 18X8 COLLAR W/2IN RISE	—	—
6	EA	12013	603C 10X16 16X10 COLLAR W/2IN RISE	—	—
6	EA	12044	603C 10X16 20X8 COLLAR W/2IN RISE	—	—
6	EA	12045	603C 10X18 22X8 COLLAR W/2IN RISE	—	—
3	EA	12046	603C 10X20 24X8 COLLAR W/2IN RISE	—	—
6	EA	12014	603C 13X16 20X10 COLLAR W/2IN RISE	—	—
3	EA	12048	603C 15X15 26X8 COLLAR W/2IN RISE	—	—
3	EA	12003	603C 15X16 24X10 COLLAR W/2IN RISE	—	—
3	EA	12047	603C 15X16 30X8 COLLAR W/2IN RISE	—	—
3	EA	12004	603C 15X18 26X10 COLLAR W/2IN RISE	—	—
3	EA	12006	603C 15X20 30X10 COLLAR W/2IN RISE	—	—



**606 and 610 Trunkline Products**



606



610

**606 Trunkline Adapters (Offset Duct Reduction)**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	11885	606 2IN TRUNKLINE REDUCER	—	—
24	EA	11886	606 4IN TRUNKLINE REDUCER	—	—
24	EA	11887	606 6IN TRUNKLINE REDUCER	—	—
24	EA	12053	606 4IN GLV REDUCER 10IN CTND	—	—
24	EA	12054	606 6IN GLV REDUCER 10IN CTND	—	—
24	EA	12055	606 8IN GLV REDUCER 10IN CTND	—	—

**610 Trunkline Vertical Square Throat Angle**

12	EA	15703	610 8X8 SQUARE THROAT ANGLE	—	—
12	EA	15705	610 10X8 SQUARE THROAT ANGLE	—	—
12	EA	15707	610 12X8 SQUARE THROAT ANGLE	—	—
12	EA	15709	610 14X8 SQUARE THROAT ANGLE	—	—
12	EA	15711	610 16X8 SQUARE THROAT ANGLE	—	—
6	EA	15713	610 18X8 SQUARE THROAT ANGLE	—	—
6	EA	15715	610 20X8 SQUARE THROAT ANGLE	—	—
6	EA	15717	610 22X8 SQUARE THROAT ANGLE	—	—
6	EA	15719	610 24X8 SQUARE THROAT ANGLE	—	—
1	EA	15720	610 26X8 SQUARE THROAT ANGLE	—	—
1	EA	15721	610 28X8 SQUARE THROAT ANGLE	—	—
1	EA	15722	610 30X8 SQUARE THROAT ANGLE	—	—
6	EA	15706	610 10X10 SQUARE THROAT ANGLE	—	—
6	EA	15708	610 12X10 SQUARE THROAT ANGLE	—	—
6	EA	15710	610 14X10 SQUARE THROAT ANGLE	—	—
6	EA	15723	610 16X10 SQUARE THROAT ANGLE	—	—
6	EA	15724	610 18X10 SQUARE THROAT ANGLE	—	—
6	EA	15725	610 20X10 SQUARE THROAT ANGLE	—	—
6	EA	15726	610 22X10 SQUARE THROAT ANGLE	—	—
6	EA	15727	610 24X10 SQUARE THROAT ANGLE	—	—
3	EA	15728	610 26X10 SQUARE THROAT ANGLE	—	—
3	EA	15729	610 28X10 SQUARE THROAT ANGLE	—	—
3	EA	15731	610 30X10 SQUARE THROAT ANGLE	—	—



## 611 and 612 Trunkline Products



611



612

### 611 Trunkline Vertical Square Throat Elbow

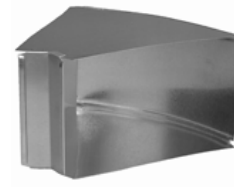
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	15739	611 8X8 SQUARE THROAT ELBOW	—	—
12	EA	15741	611 10X8 SQUARE THROAT ELBOW	—	—
6	EA	15743	611 12X8 SQUARE THROAT ELBOW	—	—
6	EA	15745	611 14X8 SQUARE THROAT ELBOW	—	—
6	EA	15747	611 16X8 SQUARE THROAT ELBOW	—	—
6	EA	15749	611 18X8 SQUARE THROAT ELBOW	—	—
6	EA	15751	611 20X8 SQUARE THROAT ELBOW	—	—
6	EA	15753	611 22X8 SQUARE THROAT ELBOW	—	—
6	EA	15755	611 24X8 SQUARE THROAT ELBOW	—	—
1	EA	15756	611 26X8 SQUARE THROAT ELBOW	—	—
1	EA	15757	611 28X8 SQUARE THROAT ELBOW	—	—
4	EA	15758	611 30X8 SQUARE THROAT ELBOW	—	—
6	EA	15760	611 10X10 SQUARE THROAT ELBOW	—	—
6	EA	15761	611 12X10 SQUARE THROAT ELBOW	—	—
6	EA	15762	611 14X10 SQUARE THROAT ELBOW	—	—
3	EA	15763	611 16X10 SQUARE THROAT ELBOW	—	—
4	EA	15764	611 18X10 SQUARE THROAT ELBOW	—	—
2	EA	15765	611 20X10 SQUARE THROAT ELBOW	—	—
2	EA	15766	611 22X10 SQUARE THROAT ELBOW	—	—
2	EA	15767	611 24X10 SQUARE THROAT ELBOW	—	—
2	EA	15768	611 26X10 SQUARE THROAT ELBOW	—	—
1	EA	15769	611 28X10 SQUARE THROAT ELBOW	—	—
1	EA	15771	611 30X10 SQUARE THROAT ELBOW	—	—

### 612 Trunkline Reducer

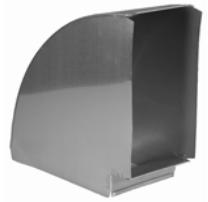
12	EA	11943	612 12X8 TO 8X8 REDUCER	—	—
12	EA	11944	612 12X8 TO 10X8 REDUCER	—	—
12	EA	11948	612 14X8 TO 12X8 REDUCER	—	—
12	EA	11952	612 16X8 TO 12X8 REDUCER	—	—
6	EA	11953	612 16X8 TO 14X8 REDUCER	—	—
6	EA	11958	612 18X8 TO 14X8 REDUCER	—	—
6	EA	11959	612 18X8 TO 16X8 REDUCER	—	—
6	EA	11964	612 20X8 TO 14X8 REDUCER	—	—
6	EA	11965	612 20X8 TO 16X8 REDUCER	—	—
6	EA	11966	612 20X8 TO 18X8 REDUCER	—	—
3	EA	11973	612 22X8 TO 18X8 REDUCER	—	—
3	EA	11980	612 24X8 TO 16X8 REDUCER	—	—
3	EA	11982	612 24X8 TO 20X8 REDUCER	—	—



## 614 and 615 Trunkline Products



614



615

### 614 Trunkline Flat Square Throat Angle

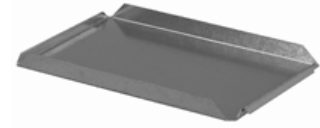
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	15774	614 8X8 SQUARE THROAT ANGLE	—	—
12	EA	15776	614 10X8 SQUARE THROAT ANGLE	—	—
12	EA	15778	614 12X8 SQUARE THROAT ANGLE	—	—
12	EA	15780	614 14X8 SQUARE THROAT ANGLE	—	—
12	EA	15782	614 16X8 SQUARE THROAT ANGLE	—	—
6	EA	15784	614 18X8 SQUARE THROAT ANGLE	—	—
6	EA	15786	614 20X8 SQUARE THROAT ANGLE	—	—
6	EA	15788	614 22X8 SQUARE THROAT ANGLE	—	—
6	EA	15790	614 24X8 SQUARE THROAT ANGLE	—	—
1	EA	15791	614 26X8 SQUARE THROAT ANGLE	—	—
1	EA	15793	614 30X8 SQUARE THROAT ANGLE	—	—
6	EA	15794	614 10X10 SQUARE THROAT ANGLE	—	—
6	EA	15795	614 12X10 SQUARE THROAT ANGLE	—	—
6	EA	15797	614 14X10 SQUARE THROAT ANGLE	—	—
6	EA	15798	614 16X10 SQUARE THROAT ANGLE	—	—
6	EA	15799	614 18X10 SQUARE THROAT ANGLE	—	—
6	EA	15800	614 20X10 SQUARE THROAT ANGLE	—	—
6	EA	15801	614 22X10 SQUARE THROAT ANGLE	—	—
6	EA	15802	614 24X10 SQUARE THROAT ANGLE	—	—
2	EA	15803	614 26X10 SQUARE THROAT ANGLE	—	—
3	EA	15804	614 28X10 SQUARE THROAT ANGLE	—	—

### 615 Trunkline Flat Square Elbows

12	EA	15814	615 8X8 SQUARE THROAT ELBOW	—	—
12	EA	15816	615 10X8 SQUARE THROAT ELBOW	—	—
6	EA	15818	615 12X8 SQUARE THROAT ELBOW	—	—
3	EA	15820	615 14X8 SQUARE THROAT ELBOW	—	—
3	EA	15822	615 16X8 SQUARE THROAT ELBOW	—	—
3	EA	15824	615 18X8 SQUARE THROAT ELBOW	—	—
3	EA	15826	615 20X8 SQUARE THROAT ELBOW	—	—
3	EA	15828	615 22X8 SQUARE THROAT ELBOW	—	—
3	EA	15830	615 24X8 SQUARE THROAT ELBOW	—	—
3	EA	15832	615 26X8 SQUARE THROAT ELBOW	—	—
3	EA	15833	615 28X8 SQUARE THROAT ELBOW	—	—
3	EA	15831	615 30X8 SQUARE THROAT ELBOW	—	—
6	EA	15817	615 10X10 SQUARE THROAT ELBOW	—	—
6	EA	15819	615 12X10 SQUARE THROAT ELBOW	—	—
6	EA	15821	615 14X10 SQUARE THROAT ELBOW	—	—
2	EA	15805	615 16X10 SQUARE THROAT ELBOW	—	—
2	EA	15806	615 18X10 SQUARE THROAT ELBOW	—	—
2	EA	15807	615 20X10 SQUARE THROAT ELBOW	—	—
2	EA	15808	615 22X10 SQUARE THROAT ELBOW	—	—
2	EA	15809	615 24X10 SQUARE THROAT ELBOW	—	—
3	EA	15810	615 26X10 SQUARE THROAT ELBOW	—	—
1	EA	15811	615 28X10 SQUARE THROAT ELBOW	—	—
3	EA	15834	615 30X10 SQUARE THROAT ELBOW	—	—



## 617 8, 10, and 12 Inch Trunkline End Caps



### 617 Trunkline End Caps, 8 Inch

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	12106	617 8X8 END CAP	—	—
12	EA	12107	617 10X8 END CAP	—	—
12	EA	12108	617 12X8 END CAP	—	—
12	EA	12109	617 14X8 END CAP	—	—
12	EA	12110	617 16X8 END CAP	—	—
12	EA	12111	617 18X8 END CAP	—	—
12	EA	12112	617 20X8 END CAP	—	—
12	EA	12113	617 22X8 END CAP	—	—
12	EA	12114	617 24X8 END CAP	—	—
12	EA	12115	617 26X8 END CAP	—	—
12	EA	12116	617 28X8 END CAP	—	—
12	EA	12117	617 30X8 END CAP	—	—

### 617 Trunkline End Caps, 10 Inch

12	EA	12094	617 2 1/4X10 END CAP	—	—
12	EA	12101	617 3 1/4X10 END CAP	—	—
4	EA	12080	617 10X10 END CAP	—	—
4	EA	12081	617 12X10 END CAP	—	—
4	EA	12082	617 14X10 END CAP	—	—
12	EA	12083	617 16X10 END CAP	—	—
12	EA	12084	617 18X10 END CAP	—	—
12	EA	12085	617 20X10 END CAP	—	—
12	EA	12086	617 22X10 END CAP	—	—
12	EA	12087	617 24X10 END CAP	—	—
12	EA	12088	617 26X10 END CAP	—	—
12	EA	12089	617 28X10 END CAP	—	—
6	EA	12091	617 30X10 END CAP	—	—

### 617 Trunkline End Caps, 12 Inch

12	EA	12099	617 2 1/4X12 END CAP	—	—
12	EA	12102	617 3 1/4X12 END CAP	—	—
12	EA	12075	617 22X12 END CAP	—	—
12	EA	12079	617 24X12 END CAP	—	—
12	EA	12076	617 26X12 END CAP	—	—
12	EA	12077	617 28X12 END CAP	—	—
6	EA	12078	617 30X12 END CAP	—	—

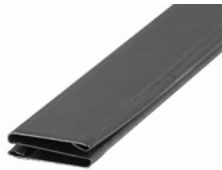
### 617 Trunkline End Caps, 14 Inch

12	EA	12103	617 3 1/4X14 END CAP	—	—
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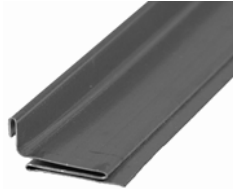




## S Hooks and Drive Cleats for Rectangular Duct



920 Flat S Hook



921 Standing S Cleat with 1/2" Flange



921-T Standing S Cleat with 1" Flange



922 Drive Cleats

**Priced Per 100**

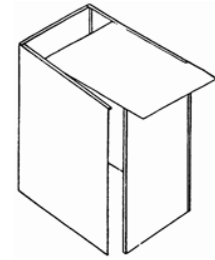
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
50	EA	10624	920 8IN GLV FLAT S CLIPS BNDL	—	—
50	EA	10625	920 10 IN GLV FLAT S CLIPS BNDL	—	—
50	EA	10626	920 12 IN GLV FLAT S CLIPS BNDL	—	—
50	EA	10627	920 14 IN GLV FLAT S CLIPS BNDL	—	—
50	EA	10628	920 16 IN GLV FLAT S CLIPS BNDL	—	—
50	EA	10648	920 20 IN GLV FLAT S CLIPS BNDL	—	—
50	EA	10631	920 24 IN GLV FLAT S CLIPS BNDL	—	—
50	FT	10657	920 5FT FLAT S HOOK	—	—
100	FT	10658	920 10FT FLAT S HOOK	—	—
50	FT	10660	921 5FT STANDING S CLEAT	—	—
100	FT	10659	921 10FT STANDING S CLEAT	—	—
100	FT	10652	921-T 10FT 22GA STANDING S CLEAT	—	—
100	FT	10654	921-T 10FT 24GA STANDING S CLEAT	—	—
100	FT	10656	921-T 10FT 26GA STANDING S CLEAT	—	—
100	EA	10661	922 8IN DRIVE CLEAT	—	—
100	EA	10668	922 10IN DRIVE CLEAT	—	—
75	FT	10662	922 5FT DRIVE CLEAT	—	—



## 647 Adjustable Plenums

If ordered Plenum Size is: 14" x 20" x 30" H

- Then use:
- (2) 647 14 x 30 Panels
- (2) 647 20 x 30 Panels
- (1) 647 20" Sq. Top Panel



### Side Panels: 30", 36", and 48"

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	12134	647 14X30 HI PANEL	—	—
6	EA	12135	647 17X30 HI PANEL	—	—
6	EA	12136	647 20X30 HI PANEL	—	—
6	EA	12137	647 23X30 HI PANEL	—	—
6	EA	12138	647 26X30 HI PANEL	—	—
6	EA	12139	647 30X30 HI PANEL	—	—
6	EA	12140	647 14X36 HI PANEL	—	—
6	EA	12141	647 17X36 HI PANEL	—	—
6	EA	12142	647 20X36 HI PANEL	—	—
6	EA	12143	647 23X36 HI PANEL	—	—
6	EA	12144	647 26X36 HI PANEL	—	—
6	EA	12145	647 30X36 HI PANEL	—	—
6	EA	12147	647 18X48 HI PANEL	—	—
6	EA	12148	647 24X48 HI PANEL	—	—
6	EA	12149	647 32X48 HI PANEL	—	—
6	EA	12150	647 20X48 HI PANEL	—	—
6	EA	12151	647 26X48 HI PANEL	—	—
6	EA	12155	647 32X30 HI PANEL	—	—
6	EA	12160	647 18X30 HI PANEL	—	—
6	EA	12161	647 18X36 HI PANEL	—	—

### Top Panels

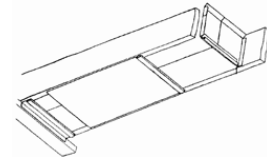
3	EA	12121	647 18 SQ TOP PANEL	—	—
3	EA	12122	647 14 SQ TOP PANEL	—	—
3	EA	12123	647 17 SQ TOP PANEL	—	—
3	EA	12124	647 20 SQ TOP PANEL	—	—
3	EA	12125	647 23 SQ TOP PANEL	—	—
3	EA	12126	647 26 SQ TOP PANEL	—	—
3	EA	12127	647 30 SQ TOP PANEL	—	—
3	EA	12146	647 32 SQ TOP PANEL	—	—



## Joist System

For Return Air Applications

- Adjustable joist block compensates for width variation between joists.
- Completed system has neat, professional appearance.
- All galvanized steel construction.
- Simple and easy to install.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
16	LTH	10569	640 17X36 JOIST SEAL	—	—
10	LTH	10573	640 33X36 JOIST SEAL	—	—
24	EA	12119	639 JOIST STARTER STRIP	—	—
12	EA	12120	641 JOIST BLOCK	—	—



## 1195-C Plenum Packages

- Stock sizes; no cutting required
- Available in 24", 36", and 48" heights
- Side panels are rigidized
- 3/4" wide flange for easy assembly
- Front or rear panel can be removed after installation for later A/C coil add-on
- Package includes: 4 side panels, 1 top panel, and 4 side clips
- Compact packaging stores easily in shop or truck



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
1	PKG	16070	1195-C 13 1/2X 19 9/16X 24 GALV PLENUM PKG	—	—
1	PKG	16071	1195-C 16 1/2X 19 9/16X 24 GALV PLENUM PKG	—	—
1	PKG	16072	1195-C 20 X 19 9/16X 24 GALV PLENUM PKG	—	—
1	PKG	16073	1195-C 23 1/2X 19 9/16X 24 GALV PLENUM PKG	—	—
1	PKG	16074	1195-C 13 1/2X 19 9/16X 36 GALV PLENUM PKG	—	—
1	PKG	16075	1195-C 16 1/2X 19 9/16X 36 GALV PLENUM PKG	—	—
1	PKG	16076	1195-C 20 X 19 9/16X 36 GALV PLENUM PKG	—	—
1	PKG	16077	1195-C 23 1/2 X 19 9/16X 36 GALV PLENUM PKG	—	—
1	PKG	16078	1195-C 13 1/2 X 19 9/16X 48 GALV PLENUM PKG	—	—
1	PKG	16079	1195-C 16 1/2 X 19 9/16X 48 GALV PLENUM PKG	—	—
1	PKG	16080	1195-C 20 X 19 9/16X 48 GALV PLENUM PKG	—	—
1	PKG	16081	1195-C 23 1/2 X 19 9/16X 48 GALV PLENUM PKG	—	—



## 270 Furnace Bases



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	11340	270 14 1/2X25X13 FURNACE BASE W/DOOR	—
1	EA	11341	270 17 1/2X25X13 FURNACE BASE W/DOOR	—
1	EA	11342	270 21X25X13 FURNACE BASE W/DOOR	—
1	EA	11343	270 24 1/2X25X13 FURNACE BASE W/DOOR	—



## Return Air Filter Elbows



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
3	EA	11685	274 20X8 TO 20X14 RETURN AIR FILTER ELBOW	—	—
1	EA	11688	274 20X10 TO 20X16 RETURN AIR FILTER ELBOW	—	—
1	EA	11689	274 25X10 TO 25X14 RETURN AIR FILTER ELBOW	—	—



## Cold Air Return Drops



### 275 Assembly Pkg.

20 x 10 starting collar.  
48" section, 20 x 10 duct with S & drives.  
20 x 10 to 20 x 14 filter elbow.

### 276 Assembly Pkg.

20 x 10 starting collar.  
48" section, 20 x 10 duct with S & drives.  
20 x 10 to 20 x 16 filter elbow (fully assembled).  
Packaged 1 per carton.

### 277 and 277TF Assembly Pkg. with Tri-Filter Cabinet

Tri-Filter cabinet accommodates a 1", 2", and 4" filter or any combination of all three. The side snap-on door and extruded polyethylene filter glides make filter changing easy and trouble-free. (277TF Only)

25 x 10 starting collar.  
48" section, 25 x 10 duct with S and drives.  
25 x 10 to 25 x 16 filter elbow.

### 278 Assembly Pkg.

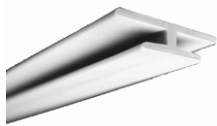
25 x 10 x 18 starting collar  
48" section, 25 x 10 duct with S & drives  
25 x 10 to 25 x 16 multi-filter elbow  
2 support legs

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
1	PKG	11300	275-48 20X14 RA DROP	—	—
1	PKG	11301	276-48 20X16 RA DROP	—	—
1	PKG	11302	277-48 25X14 RA DROP	—	—
1	PKG	11303	277-48 25X16 RA DROP	—	—
1	EA	11306	277-TF 25X16 GLV TRI FILTER DROP	—	—
1	EA	11307	278 25X16 GLV MULTI FILTER RA DROP	—	—

## **THERMO** Thermo-Pan Duct Return Air System



Thermo-Pan



Connectors



Snap Clamp

Thermo-Pan is a high-quality sheet metal alternative for constructing return air ducts between joists and stud cavities. Consists of corrugated insulation with aluminum. Reduces duct labor and noises.

Thermo-Connectors are molded polypropylene strips which easily connect Thermo-Pan panels.

Thermo-Snap Clamps are premounted brackets that provide an easy one man installation job.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
25	EA	54701	16048 16IN X 47.5IN THERMO-PAN	—	—
25	EA	54703	19048 19.5 X 47.5IN THERMO PAN	—	—
25	EA	54699	32039 32IN X 39.5IN DOUBLE THERMO-PAN	—	—
20	BAG	54702	16348 16IN PANNING CONNECTORS 25/BAG	—	—
10	BAG	54704	19348 19.5IN PANNING CONNECTORS 25/BOX	—	—
50	BAG	54700	41118 1 1/2IN SNAP CLAMPS 10/BAG	—	—
10	BAG	54705	16019 19 X 16IN I JOIST HEADERS 25/BAG	—	—

## Cold Rolled Copper Sheets

Prices of Copper Sheets are a Guideline Only  
Prices are Subject to Change

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	22376	16OZ 36X96 COPPER SHEET	—	—



## 2210 PVC Coated Sheets

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	23623	2210 48X96 26GA PVC SHEET	—	—



## 2240 Galvanized Flat Sheets

All USA made steel meets ASTM A525 gauge requirements. Full carton is equal to 2500 lbs.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-19	PC-2 20	PC-3 F/CTN
111	EA	23642	2240 36X96 24GA GALV SHEET	—	—	—
83	EA	23644	2240 48X96 24GA GALV SHEET	—	—	—
67	EA	23645	2240 48X120 24GA GALV SHEET	—	—	—
135	EA	23652	2240 36X96 26GA GALV SHEET	—	—	—
101	EA	23655	2240 48X96 26GA GALV SHEET	—	—	—
163	EA	23665	2240 36X96 28GA GALV SHEET	—	—	—
122	EA	23666	2240 48X96 28GA GALV SHEET	—	—	—
196	EA	23673	2240 36X96 30GA GALV SHEET	—	—	—



## High Efficiency Takeoffs



260-D

### 260-D Takeoffs

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	21502	260-D 6IN GALV HETO W/DAMPER CTND	—	—
6	EA	21504	260-D 8IN GALV HETO W/DAMPER CTND	—	—
4	EA	21507	260-D 12IN GALV HETO W/DAMPER CTND	—	—
3	EA	21508	260-D 14IN GALV HETO W/DAMPER CTND	—	—
3	EA	21509	260-D 16IN GALV HETO W/DAMPER CTND	—	—

### 261 Takeoffs

6	EA	21514	261 6IN GALV HETO W/STANDOFF CTND	—	—
6	EA	21516	261 8IN GALV HETO W/STANDOFF CTND	—	—
3	EA	21518	261 10IN GALV HETO W/STANDOFF CTND	—	—
3	EA	21519	261 12IN GALV HETO W/STANDOFF CTND	—	—
3	EA	21520	261 14IN GALV HETO W/STANDOFF CTND	—	—
3	EA	21521	261 16IN GALV HETO W/STANDOFF CTND	—	—



### Trim Line Takeoffs



**661 Rectangular Side Takeoff**



**663 Adjustable Rectangular Takeoff**



**665 Rectangular Top Takeoff**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
20	EA	12183	661 6X7X6 T/L TAKEOFF	—	—
20	EA	12188	663 6X7X6 T/L TAKEOFF	—	—
20	EA	12194	665 6X7X6 T/L TAKEOFF	—	—



### ZIPP-R Takeoffs



**666**



**691**



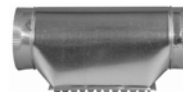
**692**



**693**



**695**



**695-2**



**699**



**699-SP**

#### 666 Top Takeoff

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
20	EA	12178	666 6IN TOP TAKEOFF	—	—

#### 691 Side Takeoff

12	EA	12207	691 6X7X5 TAKEOFF	—	—
12	EA	12210	691 6X9X7 TAKEOFF	—	—
12	EA	12211	691 6X10X8 TAKEOFF	—	—

#### 692 Universal Takeoff

12	EA	12218	692 4X8X6 TAKEOFF	—	—
12	EA	12222	692 5X8X7 TAKEOFF	—	—
12	EA	12224	692 6X8X8 TAKEOFF	—	—

#### 693 Adjustable Takeoff

12	EA	12235	693 6X7X5 TAKEOFF	—	—
12	EA	12239	693 6X9X7 TAKEOFF	—	—
12	EA	12241	693 6X10X8 TAKEOFF	—	—

#### 695 Top Takeoff

12	EA	12253	695 6X7X5 TAKEOFF	—	—
12	EA	12257	695 7X8X7 TAKEOFF	—	—
12	EA	12260	695 7X9X8 TAKEOFF	—	—

#### 695-2 Double Top Takeoff

12	EA	12286	695-2 7X9X6 TAKEOFF	—	—
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#### 699 Round Adjustable Takeoff

12	EA	12297	699 5IN TAKEOFF	—	—
20	EA	12298	699 6IN TAKEOFF	—	—
12	EA	12299	699 7IN TAKEOFF	—	—
12	EA	12300	699 8IN TAKEOFF	—	—

#### 699-SP Half Tab Takeoff

12	EA	12295	699-SP 6IN HALF TAB TAKEOFF	—	—
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## Sheet Metal Takeoffs



250-A



250-C



252



252-D



253-D

### 250-A Round Crimped Collar

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	11611	250A 4IN COLLAR	—	—
24	EA	11612	250A 5IN COLLAR	—	—
24	EA	11613	250A 6IN COLLAR	—	—
24	EA	11614	250A 7IN COLLAR	—	—
24	EA	11615	250A 8IN COLLAR	—	—
24	EA	11616	250A 9IN COLLAR	—	—
24	EA	11617	250A 10IN COLLAR	—	—
12	EA	11618	250A 12IN COLLAR	—	—
12	EA	11619	250A 14IN COLLAR	—	—
12	EA	11620	250A 16IN COLLAR	—	—
12	EA	11621	250A 18 IN COLLAR	—	—

### 250-C Round Plain Collar

24	EA	11640	250C 3IN COLLAR	—	—
24	EA	11641	250C 4IN COLLAR	—	—
24	EA	11642	250C 5IN COLLAR	—	—
24	EA	11643	250C 6IN COLLAR	—	—
24	EA	11644	250C 7IN COLLAR	—	—
24	EA	11645	250C 8IN COLLAR	—	—
24	EA	11646	250C 9IN COLLAR	—	—
24	EA	11647	250C 10IN COLLAR	—	—
12	EA	11648	250C 12IN COLLAR	—	—
12	EA	11649	250C 14IN COLLAR	—	—
12	EA	11650	250C 16IN COLLAR	—	—
12	EA	11651	250C 18 IN COLLAR	—	—

### 252 Spin-in Collar

24	EA	21218	252 4IN SPIN-IN COLLAR	—	—
24	EA	21219	252 5IN SPIN-IN COLLAR	—	—
24	EA	21220	252 6IN SPIN-IN COLLAR	—	—
24	EA	21221	252 7IN SPIN-IN COLLAR	—	—
24	EA	21222	252 8IN SPIN-IN COLLAR	—	—
12	EA	21224	252 10IN SPIN-IN COLLAR	—	—
12	EA	21225	252 12IN SPIN-IN COLLAR	—	—
3	EA	21226	252 14IN SPIN-IN COLLAR	—	—
3	EA	21227	252 16IN SPIN-IN COLLAR	—	—
3	EA	21228	252 18IN SPIN-IN COLLAR	—	—

### 252-D Spin-in Collar

24	EA	21234	252-D 4IN SPIN-IN W/DAMPER	—	—
24	EA	21236	252-D 6IN SPIN-IN COLLAR W/DAMPER	—	—
24	EA	21238	252-D 8IN SPIN-IN COLLAR W/DAMPER	—	—
12	EA	21240	252-D 10IN SPIN-IN COLLAR W/DAMER	—	—
12	EA	21241	252-D 12IN SPIN-IN COLLAR W/DAMPER	—	—
3	EA	21242	252-D 14IN SPIN-IN COLLAR W/DAMPER	—	—
3	EA	21243	252-D 16IN SPIN-IN W/DAMPER	—	—

### 253-D Spin-in Collar

24	EA	21205	253-D 6IN SPIN-IN W/SCOOP&DAMPER	—	—
24	EA	21207	253-D 8IN SPIN-IN W/SCOOP&DAMPER	—	—
12	EA	21209	253-D 10IN SPIN-IN W/SCOOP&DAMPER	—	—
12	EA	21210	253-D 12IN SPIN-IN W/SCOOP&DAMPER	—	—



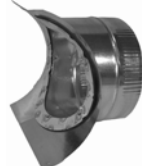
# Sheet Metal Takeoffs



254



254-D



255



929



930-D

## 254 Galvanized Takeoffs

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	13592	254 6IN GLV AIRTIGHT TAKEOFF	—	—
12	EA	13593	254 7IN GLV AIRTIGHT TAKEOFF	—	—
12	EA	13594	254 8IN GLV AIRTIGHT TAKEOFF	—	—
12	EA	13596	254 10IN GLV AIRTIGHT TAKEOFF	—	—
6	EA	13597	254 12IN GLV AIRTIGHT TAKEOFF	—	—

## 254-D Galvanized Takeoff with Damper

12	EA	13603	254-D 6IN GLV AIRTIGHT TAKEOFF	—	—
12	EA	13604	254-D 7IN GLV AIRTIGHT TAKEOFF	—	—

## 255 Saddle Takeoffs

12	EA	13612	255 6X8 GALV SADDLE AIRTIGHT TAKEOFF	—	—
12	EA	13613	255 7X8 GALV SADDLE AIRTIGHT TAKEOFF	—	—
6	EA	13614	255 8X10 GALV SADDLE AIRTIGHT TAKEOFF	—	—
4	EA	13616	255 10X12 GALV SADDLE AIRTIGHT TAKEOFF	—	—

## 929 Starting Collar

24	EA	11673	929 4IN START COLLAR	—	—
24	EA	11674	929 5IN START COLLAR	—	—
24	EA	11675	929 6IN START COLLAR	—	—
24	EA	11676	929 7IN START COLLAR	—	—
24	EA	11677	929 8IN START COLLAR	—	—
24	EA	11678	929 9IN START COLLAR	—	—
12	EA	11679	929 10IN START COLLAR	—	—
12	EA	11680	929 12IN START COLLAR	—	—
3	EA	11681	929 14IN START COLLAR	—	—
3	EA	11682	929 16IN START COLLAR	—	—
3	EA	11683	929 18IN START COLLAR	—	—

## 930-D Starting Collar with Damper

24	EA	11659	930-D 5IN STARTING COLLAR	—	—
24	EA	11660	930-D 6IN COLLAR	—	—
24	EA	11661	930-D 7IN COLLAR	—	—
24	EA	11662	930-D 8IN COLLAR	—	—
24	EA	11663	930-D 9IN COLLAR	—	—
12	EA	11664	930-D 10IN COLLAR	—	—
12	EA	11665	930-D 12IN COLLAR	—	—
3	EA	11666	930-D 14IN COLLAR	—	—
3	EA	11667	930-D 16IN COLLAR	—	—
3	EA	11668	930-D 18IN COLLAR	—	—
3	EA	11669	930-D 20IN COLLAR	—	—





## Duct Board Takeoffs



### 450 Glass Duct Collar

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	11708	450 6IN GLASS DUCT COLLAR	—	—
24	EA	11709	450 7IN GLASS DUCT COLLAR	—	—
24	EA	11710	450 8IN GLASS DUCT COLLAR	—	—
24	EA	11711	450 9IN GLASS DUCT COLLAR	—	—
12	EA	11712	450 10IN GLASS DUCT COLLAR	—	—
12	EA	11713	450 12IN GLASS DUCT COLLAR	—	—
3	EA	11714	450 14IN GLASS DUCT COLLAR	—	—
3	EA	11715	450 16IN GLASS DUCT COLLAR	—	—
24	EA	11733	450 4IN GLASS DUCT COLLAR	—	—
24	EA	11734	450 5IN GLASS DUCT COLLAR	—	—
3	EA	11735	450 18IN GLASS DUCT COLLAR	—	—

### 450-D Glass Duct Collar and Damper

24	EA	11716	450D 6IN GLASS DUCT COLLAR & DAMPER	—	—
24	EA	11717	450D 7IN GLASS DUCT COLLAR & DAMPER	—	—
24	EA	11718	450D 8IN GLASS DUCT COLLAR & DAMPER	—	—
12	EA	11720	450D 10IN GLASS DUCT COLLAR & DAMPER	—	—
12	EA	11721	450D 12IN GLASS DUCT COLLAR & DAMPER	—	—

### 450-DS Duct Collar with Damper & Scoop

24	EA	11724	450DS 6IN DUCT COLLAR/DAMPER & SCOOP	—	—
24	EA	11725	450DS 7IN DUCT COLLAR/DAMPER & SCOOP	—	—
24	EA	11726	450DS 8IN DUCT COLLAR/DAMPER & SCOOP	—	—
12	EA	11728	450DS 10IN DUCT COLLAR/DAMPER & SCOOP	—	—

### 450-R Duct Collar with Ring

24	EA	11904	450-R 4IN GALV DB COLLAR W/RING	—	—
24	EA	11905	450-R 5IN GALV DB COLLAR W/RING	—	—
24	EA	11906	450-R 6 IN GALV DB COLLAR W/RING	—	—
24	EA	11907	450-R 7IN GALV DB COLLAR W/RING	—	—
24	EA	11908	450-R 8IN GALV DB COLLAR W/RING	—	—
12	EA	11909	450-R 9IN GALV DB COLLAR W/RING	—	—
12	EA	11910	450-R 10IN GALV DB COLLAR W/RING	—	—
12	EA	11911	450-R 12IN GALV DB COLLAR W/RING	—	—
3	EA	11912	450-R 14IN GALV DB COLLAR W/RING	—	—
3	EA	11913	450-R 16IN GALV DB COLLAR W/RING	—	—
3	EA	11914	450-R 18IN GALV DB COLLAR W/RING	—	—

### 693-DB Glass Duct Takeoffs

12	EA	12243	693-DB 6X10X6 GLASS DUCT TAKE-OFF	—	—
12	EA	12244	693-DB 6X9X7 GLASS DUCT TAKEOFF	—	—
12	EA	12245	693-DB 7X10X8 GLASS DUCT TAKEOFF	—	—

### 696-DB Duct Board Takeoffs

12	EA	12285	696-DB 5IN GLV DUCTBOARD TOP TAKEOFF	—	—
12	EA	12288	696-DB 8IN GLV DUCTBOARD TOP TAKEOFF	—	—
12	EA	12292	696-DB 6IN GLV DUCTBOARD TOP TAKEOFF	—	—
12	EA	12294	696-DB 7IN GLV DUCTBOARD TOP TAKEOFF	—	—



## Insulated Duct Takeoffs



460



460-D



461



461-D

### 460 Zip-In Takeoff

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	21274	460 6IN ZIP-IN TAKEOFF	—	—
24	EA	21275	460 7IN ZIP-IN TAKEOFF	—	—
24	EA	21276	460 8IN ZIP-IN TAKEOFF	—	—
12	EA	21278	460 10IN ZIP-IN TAKEOFF	—	—

### 460-D Zip-In Takeoff with Damper

24	EA	21286	460-D 6IN ZIP-IN TAKEOFF W/DAMPER	—	—
24	EA	21287	460-D 7IN ZIP-IN TAKEOFF W/DAMPER	—	—
24	EA	21288	460-D 8IN ZIP-IN TAKEOFF W/DAMPER	—	—
12	EA	21290	460-D 10IN ZIP-IN TAKEOFF W/DAMPER	—	—

### 461 Zip-In Takeoff with Scoop

24	EA	21298	461 6IN ZIP-IN TAKEOFF W/SCOOP	—	—
24	EA	21299	461 7IN ZIP-IN TAKEOFF W/SCOOP	—	—
24	EA	21300	461 8IN ZIP-IN TAKEOFF W/SCOOP	—	—
12	EA	21302	461 10IN ZIP-IN TAKEOFF W/SCOOP	—	—

### 461-D Zip-In Takeoff with Scoop and Damper

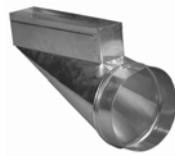
24	EA	21310	461-D 6IN ZIP-IN W/SCOOP & DAMPER	—	—
24	EA	21311	461-D 7IN ZIP-IN W/SCOOP & DAMPER	—	—
24	EA	21312	461-D 8IN ZIP-IN W/SCOOP & DAMPER	—	—
12	EA	21314	461-D 10IN ZIP-IN W/SCOOP & DAMPER	—	—



### ZIPP-R Boots



902



903



903L



903R



904



908



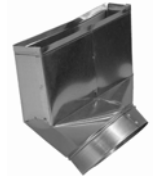
910



913



914



917

### 902 Angle Boot

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	12709	902 2 1/4X10X4 BOOT	—	—
12	EA	12710	902 2 1/4X10X5 BOOT	—	—
12	EA	12711	902 2 1/4X10X6 BOOT	—	—
12	EA	12717	902 2 1/4X12X5 BOOT	—	—
12	EA	12719	902 2 1/4X12X6 BOOT	—	—
12	EA	12720	902 2 1/4X12X7 BOOT	—	—
12	EA	12727	902 2 1/4X14X6 BOOT	—	—
12	EA	12729	902 2 1/4X14X7 BOOT	—	—
12	EA	12735	902 4X10X4 BOOT	—	—
12	EA	12736	902 4X10X5 BOOT	—	—
12	EA	12738	902 4X10X6 BOOT	—	—
12	EA	12740	902 4X10X7 BOOT	—	—
12	EA	12741	902 4X12X5 BOOT	—	—
12	EA	12746	902 4X12X6 BOOT	—	—
12	EA	12748	902 4X12X7 BOOT	—	—
12	EA	12750	902 4X12X8 BOOT	—	—
12	EA	12756	902 4X14X6 BOOT	—	—
12	EA	12758	902 4X14X7 BOOT	—	—
12	EA	12759	902 4X14X8 BOOT	—	—
12	EA	12767	902 6X10X6 BOOT	—	—
12	EA	12766	902 6X10X8 BOOT	—	—
12	EA	12769	902 6X12X6 BOOT	—	—
12	EA	12770	902 6X12X7 BOOT	—	—
12	EA	12768	902 6X10X7 BOOT	—	—
12	EA	12771	902 6X12X8 BOOT	—	—
12	EA	12773	902 6X14X6 BOOT W/3IN RISE	—	—
12	EA	12774	902 6X14X7 BOOT	—	—
12	EA	12775	902 6X14X8 BOOT	—	—

Continued on the Following Page

Continued from the Previous Page

**903 End Boot Center**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	12839	903 2 1/4X10X4 BOOT	—	—
12	EA	12841	903 2 1/4X10X6 BOOT	—	—
12	EA	12846	903 2 1/4X12X5 BOOT	—	—
12	EA	12847	903 2 1/4X12X6 BOOT	—	—
12	EA	12848	903 2 1/4X12X7 BOOT	—	—
12	EA	12857	903 2 1/4X14X6 BOOT	—	—
12	EA	12859	903 2 1/4X14X7 BOOT	—	—
12	EA	12865	903 4X10X4 BOOT	—	—
12	EA	12866	903 4X10X5 BOOT	—	—
12	EA	12867	903 4X10X6 BOOT	—	—
12	EA	12870	903 4X10X7 BOOT	—	—
12	EA	12876	903 4X12X6 BOOT	—	—
12	EA	12878	903 4X12X7 BOOT	—	—
12	EA	12879	903 4X12X8 BOOT W/3IN RISE	—	—
12	EA	12886	903 4X14X6 BOOT	—	—
12	EA	12888	903 4X14X7 BOOT	—	—
12	EA	12890	903 4X14X8 BOOT	—	—
12	EA	12893	903 6X10X6 BOOT	—	—
12	EA	12895	903 6X12X7 BOOT	—	—
12	EA	12896	903 6X14X8 BOOT	—	—

**903L End Boot, Left Offset**

12	EA	12787	903L 2 1/4X12X5 BOOT	—	—
12	EA	12788	903L 2 1/4X12X6 BOOT	—	—
12	EA	12797	903L 2 1/4X14X6 BOOT	—	—
12	EA	12807	903L 4X10X6 BOOT	—	—

**903R End Boot, Right Offset**

12	EA	12902	903R 2 1/4X10X6 BOOT	—	—
12	EA	12907	903R 2 1/4X12X5 BOOT	—	—
12	EA	12908	903R 2 1/4X12X6 BOOT	—	—
12	EA	12927	903R 4X10X6 BOOT	—	—

**904 Universal Boot**

12	EA	12961	904 2 1/4X10X6 BOOT	—	—
12	EA	12967	904 2 1/4X12X5 BOOT	—	—
12	EA	12968	904 2 1/4X12X6 BOOT	—	—
12	EA	12969	904 2 1/4X12X7 BOOT	—	—
12	EA	12977	904 2 1/4X14X6 BOOT	—	—
12	EA	12979	904 2 1/4X14X7 BOOT	—	—
12	EA	12985	904 4X10X4 ST BOOT	—	—
12	EA	12986	904 4X10X5 BOOT	—	—
12	EA	12987	904 4X10X6 BOOT	—	—
12	EA	12988	904 4X10X7 BOOT	—	—
12	EA	13021	904 4X10X7 BOOT W/3IN RISE	—	—
12	EA	12996	904 4X12X6 BOOT	—	—
12	EA	12998	904 4X12X7 BOOT	—	—
12	EA	12999	904 4X12X8 BOOT	—	—
12	EA	13006	904 4X14X6 BOOT	—	—
12	EA	13008	904 4X14X7 BOOT	—	—
12	EA	13009	904 4X14X8 BOOT	—	—
12	EA	13012	904 6X10X6 BOOT	—	—
12	EA	13003	904 6X10X7 BOOT	—	—
12	EA	12991	904 6X10X8 BOOT	—	—
12	EA	13015	904 6X12X6 BOOT	—	—
12	EA	13016	904 6X12X7 BOOT	—	—
12	EA	13004	904 6X12X8 BOOT	—	—
12	EA	13017	904 6X14X6 BOOT	—	—
12	EA	13005	904 6X14X7 BOOT	—	—
12	EA	13018	904 6X14X8 BOOT	—	—
12	EA	12993	904 6X14X8 BOOT 3IN RISE	—	—
12	EA	13023	904 8X14X7 BOOT	—	—
12	EA	13002	904 8X14X8 BOOT	—	—

**908 Basement Register Boot**

12	EA	13037	908 6X10X5 BOOT	—	—
12	EA	13038	908 6X10X6 BOOT	—	—
12	EA	13040	908 6X12X6 BOOT	—	—

**910 Quick Boots**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	16729	910 4X10X5 QUICK BOOT STRAIGHT 24IN CTR	—	—
12	EA	16700	910 4X10X6 QUICK BOOT 90DEG 16IN CTR	—	—
12	EA	16730	910 4X10X6 QUICK BOOT STRAIGHT 16IN CTR	—	—
12	EA	16701	910 4X10X6 QUICK BOOT 90DEG 24IN CTR	—	—
12	EA	16731	910 4X10X6 QUICK BOOT STRAIGHT 24IN CTR	—	—
12	EA	16704	910 4X12X6 QUICK BOOT 90DEG 16IN CTR	—	—
12	EA	16734	910 4X12X6 QUICK BOOT STRAIGHT 16IN CTR	—	—
12	EA	16736	910 4X12X7 QUICK BOOT STRAIGHT 16IN CTR	—	—
12	EA	16708	910 6X10X6 QUICK BOOT 90DEG 16IN CTR	—	—
12	EA	16738	910 6X10X6 QUICK BOOT STRAIGHT 16IN CTR	—	—
12	EA	16709	910 6X10X6 QUICK BOOT 90DEG 24IN CTR	—	—
12	EA	16739	910 6X10X6 QUICK BOOT STRAIGHT 24IN CTR	—	—

**913 Boot Rails**

10	EA	13050	913 2 1/4X12 BOOT RAIL F/16IN STUD SPACE	—	—
10	EA	13051	913 2 1/4X12 BOOT RAIL F/24IN STUD SPACE	—	—
10	EA	13052	913 4X10 BOOT RAIL F/16IN STUD SPACE	—	—
10	EA	13053	913 4X10 BOOT RAIL F/24IN STUD SPACE	—	—
10	EA	13048	913 4X12 BOOT RAIL F/16IN STUD SPACE	—	—
10	EA	13049	913 4X12 BOOT RAIL F/24IN STUD SPACE	—	—
10	EA	13120	913 4X14 BOOT RAIL F/24IN STUD SPACE	—	—
10	EA	13055	913 6X10 BOOT RAIL F/24IN STUD SPACE	—	—
6	EA	13121	913 6X14 BOOT RAIL F/24IN STUD SPACE	—	—

**914 Ceiling Boot with Rails**

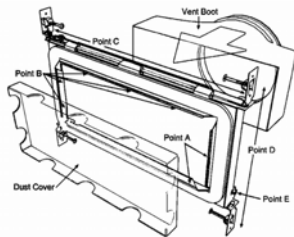
12	EA	13312	914 6IN RD CEILING BOOT W/RAILS	—	—
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**917 45° Angle Boot**

12	EA	13060	917 2 1/4X12X6 BOOT	—	—
12	EA	13063	917 2 1/4X14X6 BOOT	—	—



**Adjustable Boot Hangers**



Designed by HVAC experts, Speedi-Boot™ Boot Hanger is easy to install in two minutes or less. The Speedi-Boot™ Boot Hanger installs from the ceiling, on the wall or in the floor in less time than it takes to make your own boot blocking.

The Speedi-Boot's heavy-duty galvanized metal frame, complete with an air-tight foam gasket and construction debris cover, eliminates boot deformation, fastens securely to improve energy efficiency and improve air quality, while giving it a one-hour fire rating, and prohibiting unwanted construction materials from entering the duct.

Speedi-Boot™ Boot Hanger can handle with ease most any boot application you can think of: remodel, residential or commercial. Its drywall mud-ring helps seal your installation and add a finished touch that homebuyers demand.

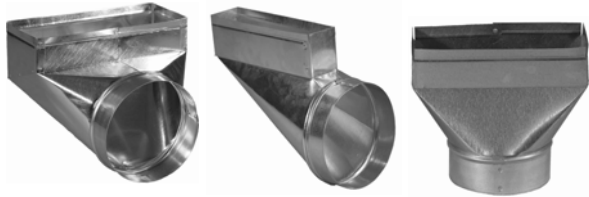
Telescoping arm extension capability allows for both 16" and 24" Joist/Truss span application. Precise installation in either parallel, transverse, horizontal or vertical positions. Reduced risk of injury from custom wood and metal framing.

**Material Thickness:** 23 Gauge

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	14040	SBH-410 4X10 SPEEDI BOOT HANGER	—	—
12	EA	14041	SBH-412 4X12 SPEEDI BOOT HANGER	—	—
12	EA	14042	SBH-414 4X14 SPEEDI BOOT HANGER	—	—
12	EA	14043	SBH-610 6X10 SPEEDI BOOT HANGER	—	—
12	EA	14044	SBH-612 6X12 SPEEDI BOOT HANGER	—	—
12	EA	14045	SBH-614 6X14 SPEEDI BOOT HANGER	—	—



## Extended Collar Boots for Flex-Duct



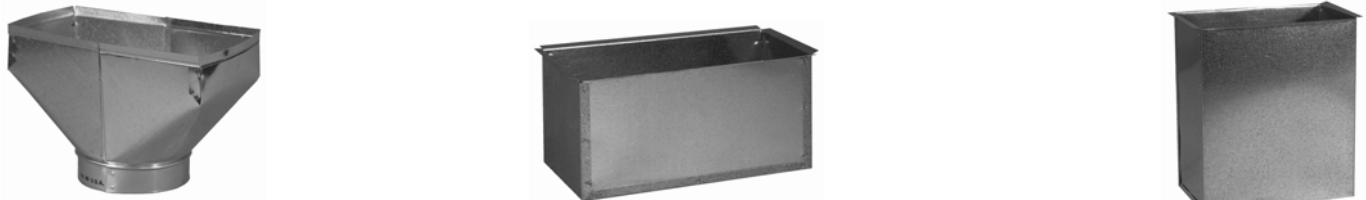
902E                      903E                      904E

These boots feature an extended boot throat to allow flex duct to be securely attached with either a cable tie or duct tape.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
20	EA	12704	902E 2 1/4X12X6 GLV ANGLE BOOT	—	—
20	EA	12849	903E 2 1/4X12X6 GLV END BOOT	—	—
20	EA	12963	904E 2 1/4X12X6 GLV UNIV BOOT	—	—
20	EA	12705	902E 4X10X6 GLV ANGLE BOOT	—	—
20	EA	12850	903E 4X10X6 GLV END BOOT	—	—
20	EA	12964	904E 4X10X6 GLV UNIV BOOT	—	—



## Floor Pans



412    413    4132

### 412 Funnel Floor Pan

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	11757	412 6X12X7 FLR BOX	—	—

### 413 6" Deep Floor Pan

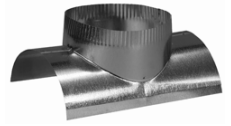
12	EA	11775	413 6X10 FLR PAN	—	—
12	EA	11776	413 6X12 FLR PAN	—	—
12	EA	11777	413 6X14 FLR PAN	—	—
12	EA	11778	413 8X10 FLR PAN	—	—
12	EA	11779	413 8X12 FLR PAN	—	—
12	EA	11781	413 9X12 FLR PAN	—	—
12	EA	11782	413 10X12 FLR PAN	—	—
12	EA	11783	413 12X14 FLR PAN	—	—

### 4132 12" Deep Floor Pan

12	EA	11795	4132 4X10 FLR PAN	—	—
12	EA	11796	4132 4X12 FLR BOX	—	—
12	EA	11802	4132 6X10 FLR PAN	—	—
12	EA	11803	4132 6X12 FLR PAN	—	—
12	EA	11804	4132 6X14 FLR PAN	—	—
12	EA	11805	4132 8X10 FLR PAN	—	—
12	EA	11806	4132 8X12 FLR PAN	—	—
12	EA	11807	4132 9X12 FLR PAN	—	—
12	EA	11808	4132 10X12 FLR PAN	—	—
12	EA	11809	4132 12X14 FLR PAN	—	—



## 155 90° Galvanized Stub Saddle

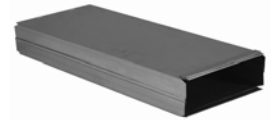


The quick way to make a side takeoff from round pipe. Cut the opening, then drill screw or pop rivet the stub saddle to the main round distribution pipe.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	16278	155-W 4IN STUB SADDLE	—	—
12	EA	16279	155-W 5IN STUB SADDLE	—	—
12	EA	16280	155-W 6IN STUB SADDLE	—	—
12	EA	16281	155-W 7IN STUB SADDLE	—	—
12	EA	16282	155-W 8IN STUB SADDLE	—	—
12	EA	16283	155-W 10IN STUB SADDLE	—	—



## Wall Stack

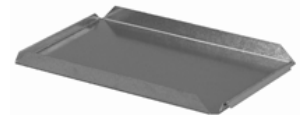


Made with the same care and exactness of other fine ZIPP-R products and featuring the famous ZIPP-R lock.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	10589	800-24 2 1/4X10 WALL STK	—	—
12	EA	10590	800-24 2 1/4X12 WALL STK	—	—
12	EA	10591	800-24 2 1/4X14 WALL STK	—	—
12	EA	10592	800-24 3 1/4X10 WALL STK	—	—
12	EA	10593	800-24 3 1/4X12 WALL STK	—	—
12	EA	10594	800-24 3 1/4X14 WALL STK	—	—
10	EA	10599	800-60 2 1/4X10 WALL STK	—	—
10	EA	10602	800-60 3 1/4X10 WALL STK	—	—
10	EA	10603	800-60 3 1/4X12 WALL STK	—	—
10	EA	10604	800-60 3 1/4X14 WALL STK	—	—
3	EA	10615	800-100 2 1/4X10 WALL STK	—	—
3	EA	10616	800-100 2 1/4X12 WALL STK	—	—
3	EA	10618	800-100 3 1/4X10 WALL STK	—	—
3	EA	10619	800-100 3 1/4X12 WALL STK	—	—
3	EA	10620	800-100 3 1/4X14 WALL STK	—	—



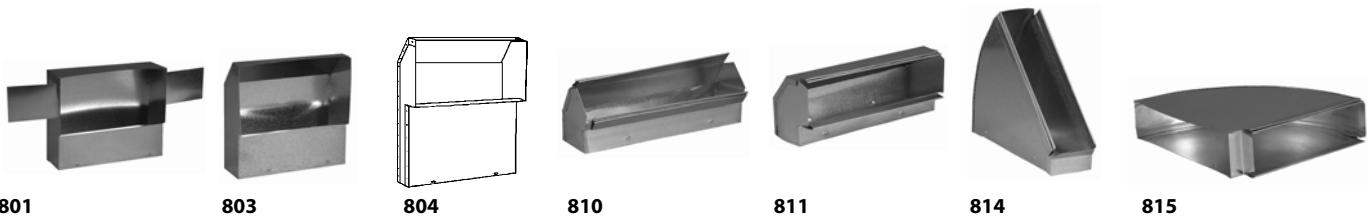
## 617 End Caps For Wall Stack



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	12094	617 2 1/4X10 END CAP	—	—
12	EA	12099	617 2 1/4X12 END CAP	—	—
12	EA	12101	617 3 1/4X10 END CAP	—	—
12	EA	12102	617 3 1/4X12 END CAP	—	—
12	EA	12103	617 3 1/4X14 END CAP	—	—



## Wall Stack Accessories



### 801 Stack Head

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
25	EA	12386	801 3 1/4X10 10X6 STK HD	—	—
25	EA	12387	801 3 1/4X12 12X6 STK HD	—	—

### 803 Sidewall Register Head, 4 In. Extension

12	EA	12404	803 3 1/4X10 10X6 STK HD	—	—
12	EA	12407	803 3 1/4X12 12X6 STK HD	—	—
12	EA	12410	803 3 1/4X14 14X6 STK HD	—	—

### 804 Sidewall Register Head, 9 In. Extension

12	EA	12412	804 2 1/4X10 10X6 STK HD	—	—
12	EA	12413	804 2 1/4X12 12X6 STK HD	—	—
12	EA	12415	804 3 1/4X10 10X6 STK HD	—	—
12	EA	12416	804 3 1/4X12 12X6 STK HD	—	—
12	EA	12418	804 3 1/4X14 14X6 STK HD	—	—

### 810 Vertical Wall Stack Angle

12	EA	12447	810 2 1/4X10 ANGLE	—	—
12	EA	12448	810 2 1/4X12 ANGLE	—	—
12	EA	12452	810 3 1/4X10 ANGLE	—	—
12	EA	12453	810 3 1/4X12 ANGLE	—	—
12	EA	12454	810 3 1/4X14 ANGLE	—	—

### 811 Vertical Wall Stack Elbow

12	EA	12457	811 2 1/4X10 ELBOW	—	—
12	EA	12458	811 2 1/4X12 ELBOW	—	—
12	EA	12462	811 3 1/4X10 ELBOW	—	—
12	EA	12463	811 3 1/4X12 ELBOW	—	—
12	EA	12464	811 3 1/4X14 ELBOW	—	—

### 814 Flat Wall Stack Angle

12	EA	12473	814 3 1/4X10 ANGLE	—	—
12	EA	12474	814 3 1/4X12 ANGLE	—	—

### 815 Flat Wall Stack Elbow

12	EA	12478	815 2 1/4X12 ELBOW	—	—
12	EA	12484	815 3 1/4X10 ELBOW	—	—
12	EA	12485	815 3 1/4X12 ELBOW	—	—
12	EA	12486	815 3 1/4X14 ELBOW	—	—

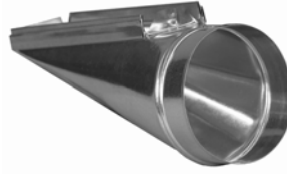




## Wall Stack Accessories



829



838



840

### 829 Universal Boot

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	12509	829 3 1/4X10X4 BOOT	—	—
12	EA	12510	829 3 1/4X10X5 BOOT	—	—
12	EA	12511	829 3 1/4X10X6 BOOT	—	—
12	EA	12512	829 3 1/4X10X7 BOOT	—	—
12	EA	12516	829 3 1/4X12X6 BOOT	—	—
12	EA	12517	829 3 1/4X12X7 BOOT	—	—
12	EA	12522	829 3 1/4X14X8 BOOT	—	—
12	EA	12524	829 3 1/4X12X8 BOOT	—	—

### 838 End Boot

12	EA	12533	838 3 1/4X10X5 BOOT	—	—
12	EA	12534	838 3 1/4X10X6 BOOT	—	—
12	EA	12535	838 3 1/4X10X7 BOOT	—	—
12	EA	12539	838 3 1/4X12X6 BOOT	—	—
12	EA	12540	838 3 1/4X12X7 BOOT	—	—
12	EA	12544	838 3 1/4X12X8 BOOT	—	—
12	EA	12548	838 3 1/4X14X8 BOOT	—	—

### 840 Angle Boot

12	EA	12563	840 3 1/4X10X5 BOOT	—	—
12	EA	12560	840 3 1/4X10X6 BOOT	—	—
12	EA	12561	840 3 1/4X12X6 BOOT	—	—
12	EA	12565	840 3 1/4X10X7 BOOT	—	—
12	EA	12571	840 3 1/4X12X7 BOOT	—	—
12	EA	12572	840 3 1/4X12X8 BOOT	—	—
12	EA	12577	840 3 1/4X14X8 BOOT	—	—



## Oval Pipe and Fittings



Branch Duct (inches)	Area Sq. In.
5 Round	19.6
6 Round	28.3
7 Round	38.5
5 Oval (6 L x 3-1/4 W)	17.2
6 Oval (7-9/16 L x 3-1/4 W)	22.2
7 Oval (9-1/8 L x 3-1/4 W)	27.3
3-1/2 x 8 Stack	26.0
3-1/4 x 10 Stack	32.5
3-1/4 x 12 Stack	39.0

Atco-Gary No.	Acme No.	L & B	Excelsior
700-100	78	Button Snap Warm-air Oval	0100
701	95	Oval Std. Head Style B	090A
703	107		61A
704	103		
714	96	574	090A
715	102		61A
720	350	Vert. Oval Elbow	18
721	94	Oval Flat Elbow	29
730	357	Vert. Oval Angle	21
731	98		24

### 6 Inch Oval Pipe and Fittings

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	13201	700-60 6 IN OVAL PIPE	—	—
5	EA	13207	700-100 6 IN OVAL PIPE	—	—
5	EA	13210	700-113 6 IN OVAL PIPE	—	—
12	EA	13215	701 4X10X6 STK HD W/EARS	—	—
12	EA	13216	701 6X10X6 STK HD W/EARS	—	—
12	EA	13218	701 6X12X6 STK HD W/EARS	—	—
12	EA	13193	702 6X10X6 DBL OVAL STK HEAD	—	—
12	EA	13194	702 6X12X6 DBL OVAL STK HEAD	—	—
12	EA	13249	703 6 RD X 6 OVAL END BOOT	—	—
12	EA	13259	704 6 OVAL X 6 OVAL END BOOT	—	—
12	EA	13254	705 4X10X6 OVAL 90DEG REGISTER BOX	—	—
12	EA	13228	714 5 RD X 6 OV 90 BOOT PE	—	—
12	EA	13229	714 6 RD X 6 OV 90 BOOT PE	—	—
12	EA	13306	715 6 RD X 6 OVAL BOOT PE	—	—
12	EA	13341	720 6IN 90 DEG VERTICAL ELBOW	—	—
12	EA	13346	721 6IN OVAL 90 DEG FLAT ELBOW	—	—
12	EA	13351	730 6IN 45 DEG VERTICAL ANGLE	—	—
12	EA	13356	731 6 OVAL 45 DEG FLAT ANGLE	—	—

**7 Inch Oval Pipe and Fittings**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	13202	700-60 7 IN OVAL PIPE	—	—
5	EA	13208	700-100 7 IN OVAL PIPE	—	—
5	EA	13211	700-113 7 IN OVAL PIPE	—	—
12	EA	13220	701 6X10X7 STK HD W/EARS	—	—
12	EA	13222	701 6X12X7 STK HD W/EARS	—	—
12	EA	13195	702 6X12X7 GALV DBL OVAL STACKHEAD	—	—
12	EA	13253	703 7 RD X 7 OVAL END BOOT	—	—
12	EA	13232	714 6RD X7 OV 90 BOOT PE	—	—
12	EA	13233	714 7 RD X 7 OV 90 BOOT PE	—	—
12	EA	13311	715 7 OVAL X 7 RD STRAIGHT BOOT PE	—	—
12	EA	13342	720 7IN 90 DEG VERTICAL ELBOW	—	—
12	EA	13347	721 7IN OVAL 90 DEG FLAT ELBOW	—	—
12	EA	13352	730 7IN 45 DEG VERTICAL ANGLE	—	—
12	EA	13357	731 7IN 45 DEG FLAT OVAL ANGLE	—	—

**8 Inch Oval Pipe and Fittings**

5	EA	13209	700-100 8IN OVAL PIPE	—	—
12	EA	13223	701 6X12X8 STK HD W/EARS	—	—
12	EA	13234	714 8 RD X 8 OV 90 BOOT	—	—
12	EA	13314	715 8X8 RD TO OVAL BOOT	—	—
12	EA	13343	720 8IN 90 DEG VERTICAL ELBOW	—	—
12	EA	13348	721 8IN 90 DEG FLAT ELBOW	—	—
12	EA	13353	730 8IN 45 DEG VERTICAL ANGLE	—	—



## Galvanized Spiral Pipe and Fittings



940



943



946

- For low/medium pressure applications.
- Meets SMACNA gauge standards.
- Sizes available to 36 inches.
- Standard SMACNA sizes supplied. Consult your G.W. Berkheimer representative for other gauges.
- Important! Special cutting charge and setup charge applies for pipe in gauges or lengths other than standard.



947



948



950

### 940 Spiral Standard 10 Ft. Long

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	FT	17084	940 6IN GLV 10FT SPIRAL PIPE	—
10	FT	17086	940 8IN GLV 10FT SPIRAL PIPE	—
10	FT	17088	940 10IN GLV 10FT SPIRAL PIPE	—
10	FT	17089	940 12IN GLV 10FT SPIRAL PIPE	—
10	FT	17090	940 14IN GLV 10FT SPIRAL PIPE	—
10	FT	17070	940 16IN GLV 10FT SPIRAL PIPE	—
10	FT	17071	940 18IN GLV 10FT SPIRAL PIPE	—

### 943 Spiral Pipe Connectors

12	EA	13503	943 6IN GLV SPIRAL PIPE CONN	—
12	EA	13505	943 8IN GLV SPIRAL PIPE CONN	—
12	EA	13507	943 10IN GLV SPIRAL PIPE CONN	—
12	EA	13508	943 12IN GLV SPIRAL PIPE CONN	—
12	EA	13509	943 14IN GLV SPIRAL PIPE CONN	—
12	EA	13510	943 16IN GLV SPIRAL PIPE CONN	—
12	EA	13511	943 18IN GLV SPIRAL PIPE CONN	—

### 946 90 Degree Spiral Elbow

12	EA	13403	946 6IN GLV SPIRAL ELBOW	—
12	EA	13405	946 8IN GLV SPIRAL ELBOW	—
12	EA	13407	946 10IN GLV SPIRAL ELBOW	—
8	EA	13408	946 12IN GLV SPIRAL ELBOW	—
1	EA	13409	946 14IN GLV SPIRAL ELBOW	—
1	EA	13410	946 16IN GLV SPIRAL ELBOW	—
1	EA	13411	946 18IN GLV SPIRAL ELBOW	—

### 947 45 Degree Angle for Spiral

24	EA	13524	947 6IN GLV SPIRAL ANGLE	—
24	EA	13526	947 8IN GLV SPIRAL ANGLE	—
24	EA	13528	947 10IN GLV SPIRAL ANGLE	—
12	EA	13529	947 12IN GLV SPIRAL ANGLE	—
1	EA	13530	947 14IN GLV SPIRAL ANGLE	—
1	EA	13531	947 16IN GLV SPIRAL ANGLE	—
1	EA	13532	947 18IN GLV SPIRAL ANGLE	—

### 948 Spiral Regular Saddle

12	EA	13901	948 4X12 GLV SPIRAL REG SADDLE	—
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### 950 Tee Smoothflow

12	EA	13782	950 6X6X6 GLV SPIRAL TEE JOINT	—
12	EA	13784	950 8X8X8 GLV SPIRAL TEE JOINT	—
6	EA	13786	950 10X10X10 GLV SPIRAL TEE JT	—
6	EA	13787	950 12X12X12 GLV SPIRAL TEE JT	—
3	EA	13788	950 14X14X14 GLV SPIRAL TEE JT	—
1	EA	13789	950 16X16X16 GLV SPIRAL TEE JT	—



## Galvanized Spiral Fittings



951



953



960



980



981

- For low/medium pressure applications.
- Meets SMACNA gauge standards.
- Sizes available to 36 inches.
- Standard SMACNA sizes supplied. Consult your G.W. Berkheimer representative for other gauges.
- Important! Special cutting charge and setup charge applies for pipe in gauges or lengths other than standard.

### 951 45 Degree Tee

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	13860	951 6X6X6 GLV SPIRAL 45DEG TEE	—
12	EA	13862	951 8X8X8 GLV SPIRAL 45DEG TEE	—
6	EA	13865	951 12X12X12 GLV SPIRAL 45DG TEE	—

### 953 Collar Saddles (Round Pipe Dia. x Duct Dia.)

12	EA	13695	953 6X8 GLV SPIRAL CLR SADDLE	—
12	EA	13696	953 6X10 GLV SPIRAL CLR SADDLE	—
12	EA	13697	953 6X12 GLV SPIRAL CLR SADDLE	—
12	EA	13698	953 6X14 GLV SPIRAL CLR SADDLE	—
12	EA	13699	953 8X10 GLV SPIRAL CLR SADDLE	—
12	EA	13700	953 8X12 GLV SPIRAL CLR SADDLE	—
12	EA	13701	953 8X14 GLV SPIRAL CLR SADDLE	—
12	EA	13704	953 10X12 GLV SPIRAL CLR SADDLE	—
12	EA	13705	953 10X14 GLV SPIRAL CLR SADDLE	—
12	EA	14023	953 14X18 GLV SPIRAL CLR SADDLE	—

### 960 End Caps

12	EA	13545	960 6IN GLV SPIRAL CAP	—
12	EA	13547	960 8IN GLV SPIRAL CAP	—
12	EA	13549	960 10IN GLV SPIRAL CAP	—
12	EA	13550	960 12IN GLV SPIRAL CAP	—
12	EA	13551	960 14IN GLV SPIRAL CAP	—
12	EA	13552	960 16IN GLV SPIRAL CAP	—
1	EA	13553	960 18IN GLV SPIRAL CAP	—

### 980 Standard Reducer

12	EA	13718	980 8X6 GLV SPIRAL STD REDUCER	—
12	EA	13725	980 10X8 GLV SPIRAL STD REDUCER	—
12	EA	13728	980 12X10 GLV SPIRAL STD REDUCER	—
12	EA	13732	980 14X12 GLV SPIRAL STD REDUCER	—
12	EA	13736	980 16X14 GLV SPIRAL STD REDUCER	—
1	EA	13740	980 18X16 GLV SPIRAL STD REDUCER	—

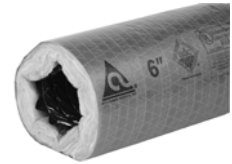
### 981 Tapered Reducer

12	EA	13662	981 8X6 GLV SPIRAL TAPER REDUCER	—
12	EA	13669	981 10X8 GLV SPIRAL TAPER REDUCER	—
12	EA	13674	981 12X10 GLV SPIRAL TAPER REDUCER	—
12	EA	13677	981 14X12 GLV SPIRAL TAPER REDUCER	—
12	EA	13657	981 16X14 GLV SPIRAL TAPER REDUCER	—
1	EA	13680	981 18X16 GLV SPIRAL TAPER REDUCER	—



## R8 428 Gray Flex Duct

Boxed



### Performance Properties

- Maximum velocity: 5000 FPM
- Maximum positive pressure: 10" W.C.
- Maximum negative pressure: 1/2" W.C.
- Operating temperature: 0° to +200° F
- Minimum bend radius equal to diameter
- Listed and labeled with Underwriters Lab
- Tested in accordance with U.L. 181 Class 1 standards for air ducts.
- Meets NFPA 90A and 90B

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1 CTNS	PC-2 2-4 CTNS	PC-3 5 CTNS
25	FT	44170	428-8 4IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44171	428-8 5IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44172	428-8 6IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44173	428-8 7IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44174	428-8 8IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44175	428-8 9IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44176	428-8 10IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44177	428-8 12IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44178	428-8 14IN 25FT GRAY FLEX DUCT	—	—	—



## R8 429 Silver Flex Duct

Boxed



### Performance Properties

- Maximum velocity: 5000 FPM
- Maximum positive pressure: 10" W.C.
- Maximum negative pressure: 1/2" W.C.
- Operating temperature: 0° to +200° F
- Minimum bend radius equal to diameter.
- Listed and labeled with Underwriters Lab.
- Tested in accordance with U.L. 181 Class 1 standards for air ducts.
- Meets NFPA 90A and 90B.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1 CTNS	PC-2 2-4 CTNS	PC-3 5 CTNS
25	FT	44207	429-8 4IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44208	429-8 5IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44209	429-8 6IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44210	429-8 7IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44211	429-8 8IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44212	429-8 9IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44213	429-8 10IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44214	429-8 12IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44215	429-8 14IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44216	429-8 16IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44217	429-8 18IN 25FT SILVER FLEX DUCT	—	—	—



## R8 Gray Flex Duct Bagged



### Performance Properties

- Maximum velocity: 5000 FPM
- Maximum positive pressure: 10" W.C.
- Maximum negative pressure: 1/2" W.C.
- Operating temperature: 0° to +200° F
- Minimum bend radius equal to diameter
- Listed and labeled with Underwriters Lab
- Tested in accordance with U.L. 181 Class 1 standards for air ducts
- Meets NFPA 90A and 90B

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1 CTNS	PC-2 2-4 CTNS	PC-3 5 CTNS
1	BAG	48874	17802404 4IN X 25FT R8.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48875	17802405 5IN X 25FT R8.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48876	17802406 6IN X 25FT R8.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48877	17802407 7IN X 25FT R8.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48878	17802408 8IN X 25FT R8.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48879	17802409 9IN X 25FT R8.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48880	17802410 10IN X 25FT R8.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48881	17802412 12IN X 25FT R8.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48882	17802414 14IN X 25FT R8.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48883	17802416 16IN X 25FT R8.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48884	17802418 18IN X 25FT R8.0 GRAY BAGGED FLEX DUCT	—	—	—



## R8 Silver Flex Duct Bagged



### Performance Properties

- Maximum velocity: 5000 FPM
- Maximum positive pressure: 10" W.C.
- Maximum negative pressure: 1/2" W.C.
- Operating temperature: 0° to +200° F
- Minimum bend radius equal to diameter
- Listed and labeled with Underwriters Lab
- Tested in accordance with U.L. 181 Class 1 standards for air ducts
- Meets NFPA 90A and 90B

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1 CTNS	PC-2 2-4 CTNS	PC-3 5 CTNS
1	BAG	48824	13102404 4IN X 25FT R8.0 SILVER BAGGED FLEX	—	—	—
1	BAG	48825	13102405 5IN X 25FT R8.0 SILVER BAGGED FLEX	—	—	—
1	BAG	48826	13102406 6IN X 25FT R8.0 SILVER BAGGED FLEX	—	—	—
1	BAG	48827	13102407 7IN X 25FT R8.0 SILVER BAGGED FLEX	—	—	—
1	BAG	48828	13102408 8IN X 25FT R8.0 SILVER BAGGED FLEX	—	—	—
1	BAG	48829	13102409 9IN X 25FT R8.0 SILVER BAGGED FLEX	—	—	—
1	BAG	48830	13102410 10IN X 25FT R8.0 SILVER BAGGED FLEX	—	—	—
1	BAG	48831	13102412 12IN X 25FT R8.0 SILVER BAGGED FLEX	—	—	—
1	BAG	48832	13102414 14IN X 25FT R8.0 SILVER BAGGED FLEX	—	—	—
1	BAG	48833	13102416 16IN X 25FT R8.0 SILVER BAGGED FLEX	—	—	—
1	BAG	48834	13102418 18IN X 25FT R8.0 SILVER BAGGED FLEX	—	—	—



## R6 428 Gray Flex Duct

Boxed



### Performance Properties

- Maximum velocity: 5000 FPM
- Maximum positive pressure: 10" W.C.
- Maximum negative pressure: 1/2" W.C.
- Operating temperature: 0° to +200° F
- Minimum bend radius equal to diameter
- Listed and labeled with Underwriters Lab
- Tested in accordance with U.L. 181 Class 1 standards for air ducts.
- Meets NFPA 90A and 90B

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1 CTNS	PC-2 2-4 CTNS	PC-3 5 CTNS
25	FT	44051	428-6 4IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44052	428-6 5IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44053	428-6 6IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44054	428-6 7IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44055	428-6 8IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44056	428-6 9IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44057	428-6 10IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44058	428-6 12IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44059	428-6 14IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44060	428-6 16IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44061	428-6 18IN 25FT GRAY FLEX DUCT	—	—	—



## R6 429 Silver Flex Duct

Boxed



### Performance Properties

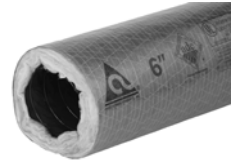
- Maximum velocity: 5000 FPM
- Maximum positive pressure: 10" W.C.
- Maximum negative pressure: 1/2" W.C.
- Operating temperature: 0° to +200° F
- Minimum bend radius equal to diameter
- Listed and labeled with Underwriters Lab
- Tested in accordance with U.L. 181 Class 1 standards for air ducts.
- Meets NFPA 90A and 90B

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1 CTNS	PC-2 2-4 CTNS	PC-3 5 CTNS
25	FT	44067	429-6 4IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44068	429-6 5IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44069	429-6 6IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44070	429-6 7IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44071	429-6 8IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44072	429-6 9IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44073	429-6 10IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44074	429-6 12IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44075	429-6 14IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44076	429-6 16IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44077	429-6 18IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44078	429-6 20IN 25FT SILVER FLEX DUCT	—	—	—





## R6 Gray Flex Duct Bagged



### Performance Properties

- Maximum velocity: 5000 FPM
- Maximum positive pressure: 10" W.C.
- Maximum negative pressure: 1/2" W.C.
- Operating temperature: 0° to +200° F
- Minimum bend radius equal to diameter
- Listed and labeled with Underwriters Lab
- Tested in accordance with U.L. 181 Class 1 standards for air ducts
- Meets NFPA 90A and 90B

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1 CTNS	PC-2 2-4 CTNS	PC-3 5 CTNS
1	BAG	48862	17602404 4IN X 25FT R6.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48863	17602405 5IN X 25FT R6.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48864	17602406 6IN X 25FT R6.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48865	17602407 7IN X 25FT R6.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48866	17602408 8IN X 25FT R6.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48867	17602409 9IN X 25FT R6.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48868	17602410 10IN X 25FT R6.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48869	17602412 12IN X 25FT R6.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48870	17602414 14IN X 25FT R6.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48871	17602416 16IN X 25FT R6.0 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48872	17602418 18IN X 25FT R6.0 GRAY BAGGED FLEX DUCT	—	—	—



## R6 Silver Flex Duct Bagged



### Performance Properties

- Maximum velocity: 5000 FPM
- Maximum positive pressure: 10" W.C.
- Maximum negative pressure: 1/2" W.C.
- Operating temperature: 0° to +200° F
- Minimum bend radius equal to diameter
- Listed and labeled with Underwriters Lab
- Tested in accordance with U.L. 181 Class 1 standards for air ducts
- Meets NFPA 90A and 90B

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1 CTNS	PC-2 2-4 CTNS	PC-3 5 CTNS
1	BAG	48812	13602404 4IN X 25FT R6.0 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48813	13602405 5IN X 25FT R6.0 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48814	13602406 6IN X 25FT R6.0 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48815	13602407 7IN X 25FT R6.0 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48816	13602408 8IN X 25FT R6.0 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48817	13602409 9IN X 25FT R6.0 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48818	13602410 10IN X 25FT R6.0 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48819	13602412 12IN X 25FT R6.0 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48820	13602414 14IN X 25FT R6.0 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48821	13602416 16IN X 25FT R6.0 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48822	13602418 18IN X 25FT R6.0 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48823	13602420 20IN X 25FT R6.0 SILVER BAGGED FLEX DUCT	—	—	—



## R4 428 Class 1 Flex Duct Boxed



### Performance Properties

- Maximum velocity: 4000 FPM
- Maximum positive pressure: 10" w.c.
- Maximum negative pressure: 1/2" w.c.
- Operating temperature: 0° to 200° F
- Minimum bend radius equal to diameter
- Listed and labeled with Underwriters Lab.
- Tested in accordance with U.L. 181 Class 1 standards for air ducts
- Meets NFPA 90A and 90B

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1 CTNS	PC-2 2-4 CTNS	PC-3 5 CTNS
25	FT	44025	428-4 4IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44026	428-4 5IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44027	428-4 6IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44028	428-4 7IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44029	428-4 8IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44030	428-4 9IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44031	428-4 10IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44032	428-4 12IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44033	428-4 14IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44034	428-4 16IN 25FT GRAY FLEX DUCT	—	—	—
25	FT	44035	428-4 18IN 25FT GRAY FLEX DUCT	—	—	—



## R4 429 Class 1 Flex Duct Boxed



ZIPP-R Flex 429 is manufactured with a galvanized spring steel helix contained in continuous encapsulating layers of tough polyester film forming a smooth flowing, airtight inner core. The core is surrounded by a thick blanket of fiberglass insulation. Encasing the entire assembly is a tough, tear-resistant scrim reinforced metalized jacket providing a durable outer vapor barrier.

### Performance Properties

- Maximum velocity: 4000 FPM
- Maximum positive pressure: 10" w.c.
- Maximum negative pressure: 1/2" w.c.
- Operating temperature: 0° to 200° F.
- Minimum bend radius equal to diameter
- Listed and labeled with Underwriters Lab.
- Tested in accordance with U.L. 181 Class 1 standards for air ducts
- Meets NFPA 90A and 90B

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1 CTNS	PC-2 2-4 CTNS	PC-3 5 CTNS
25	FT	44079	429-4 4IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44080	429-4 5IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44081	429-4 6IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44082	429-4 7IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44083	429-4 8IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44084	429-4 9IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44085	429-4 10IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44086	429-4 12IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44087	429-4 14IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44088	429-4 16IN 25FT SILVER FLEX DUCT	—	—	—
25	FT	44089	429-4 18IN 25FT SILVER FLEX DUCT	—	—	—



## R4 Gray Flex Duct Bagged



### Performance Properties

- Maximum velocity: 4000 FPM
- Maximum positive pressure: 10" W.C.
- Maximum negative pressure: 1/2" W.C.
- Operating temperature: 0° to +200° F
- Minimum bend radius equal to diameter
- Listed and labeled with Underwriters Lab
- Tested in accordance with U.L. 181 Class 1 standards for air ducts
- Meets NFPA 90A and 90B

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1 CTNS	PC-2 2-4 CTNS	PC-3 5 CTNS
1	BAG	48850	17002404 4IN X 25FT R4.2 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48851	17002405 5IN X 25FT R4.2 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48852	17002406 6IN X 25FT R4.2 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48853	17002407 7IN X 25FT R4.2 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48854	17002408 8IN X 25FT R4.2 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48855	17002409 9IN X 25FT R4.2 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48856	17002410 10IN X 25FT R4.2 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48857	17002412 12IN X 25FT R4.2 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48858	17002414 14IN X 25FT R4.2 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48859	17002416 16IN X 25FT R4.2 GRAY BAGGED FLEX DUCT	—	—	—
1	BAG	48860	17002418 18IN X 25FT R4.2 GRAY BAGGED FLEX DUCT	—	—	—



## R4 Silver Flex Duct Bagged



### Performance Properties

- Maximum velocity: 4000 FPM
- Maximum positive pressure: 10" W.C.
- Maximum negative pressure: 1/2" W.C.
- Operating temperature: 0° to +200° F
- Minimum bend radius equal to diameter
- Listed and labeled with Underwriters Lab
- Tested in accordance with U.L. 181 Class 1 standards for air ducts
- Meets NFPA 90A and 90B

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1 CTNS	PC-2 2-4 CTNS	PC-3 5 CTNS
1	BAG	48800	13002404 4IN X 25FT R4.2 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48801	13002405 5IN X 25FT R4.2 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48802	13002406 6IN X 25FT R4.2 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48803	13002407 7IN X 25FT R4.2 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48804	13002408 8IN X 25FT R4.2 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48805	13002409 9IN X 25FT R4.2 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48806	13002410 10IN X 25FT R4.2 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48807	13002412 12IN X 25FT R4.2 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48808	13002414 14IN X 25FT R4.2 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48809	13002416 16IN X 25FT R4.2 SILVER BAGGED FLEX DUCT	—	—	—
1	BAG	48810	13002418 18IN X 25FT R4.2 SILVER BAGGED FLEX DUCT	—	—	—



## 434 Compressed Flex Duct

- Duct Material: Type 3003 aluminum.
- Maximum Static Pressure: 12" W.C.
- Temp. Range: 100° to 435° F.
- Ideal for low to high pressure air duct.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 1-4 CTNS	PC-3 5 CTNS
160	FT	44420	434 3IN-8FT TYPE A ALUM FLEX DUCT	—	—	—
96	FT	44421	434 4IN-8FT TYPE A ALUM FLEX DUCT	—	—	—
72	FT	44422	434 5IN-8FT TYPE A ALUM FLEX DUCT	—	—	—
32	FT	44423	434 6IN-8FT TYPE A ALUM FLEX DUCT	—	—	—
64	FT	44424	434 7IN-8FT TYPE A ALUM FLEX DUCT	—	—	—
32	FT	44425	434 8IN-8FT TYPE A ALUM FLEX DUCT	—	—	—



## 433 Flex Duct

433 ZIPP-R Flex is an uninsulated U.L. Class 1 air duct connector for low and medium pressure HVAC applications. The dual-ply laminate construction totally encapsulates a spring steel wire helix providing a continuous air seal.

### Performance Properties

- Velocity: 4000 FPM Max.
- Positive Pressure: 10" W.C. Max.
- Negative Pressure: 1/2" W.C. Max.
- Operating Temperature: 0° to 200° F.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 1-4 CTNS	PC-3 5 CTNS
100	FT	44001	433 3IN 25FT UNINSUL FLEX DUCT	—	—	—
100	FT	44002	433 4IN 25FT UNINSUL FLEX DUCT	—	—	—
25	FT	44003	433 5IN 25FT UNINSUL FLEX DUCT	—	—	—
25	FT	44004	433 6IN 25FT UNINSUL FLEX DUCT	—	—	—
25	FT	44005	433 7IN 25FT UNINSUL FLEX DUCT	—	—	—
25	FT	44006	433 8IN 25FT UNINSUL FLEX DUCT	—	—	—
25	FT	44008	433 10IN 25FT UNINSUL FLEX DUCT	—	—	—
25	FT	44009	433 12IN 25FT UNINSUL FLEX DUCT	—	—	—
25	FT	44010	433 14IN 25FT UNINSUL FLEX DUCT	—	—	—
25	FT	44011	433 16IN 25FT UNINSUL FLEX DUCT	—	—	—
50	FT	44012	433 18IN 25FT UNINSUL FLEX DUCT	—	—	—



## Polypropylene Woven Duct Strap

This webbed duct strap possesses high tensile and abrasion resistance. It is chemical resistant. Use for flex duct. It is easy to cut and staple to joists.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
8	EA	77056	710-103 3IN NOMINAL SILVER WEB/300FT RL	—	—
24	EA	77062	710-101 1 3/4IN NOMINAL SILVER WEB/300FT RL	—	—



## Flex Duct Cutters



FDC1



FDC2

### FDC1 Flex Duct Cutter

The double edged knife blade cleanly pierces through the outer skin, insulation, and liner of flexible round duct. The blade cuts both directions, from any angle. The duct's exposed wire rib coil can then be cut with the wire jaws.

### FDC2 Flex Duct Shear

The FDC2 cuts insulated flexible round duct and also cuts the duct liner's wire rib coil. The pointed bottom blade easily pierces duct to start cut. The heavy duty wire cutter is located away from scissor blades. A thumb operated latch ensures that sharpened blade edges stay closed when not in use.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
3	EA	80665	FDC2 FLEX DUCT SHEAR	—
3	EA	80666	FDC1 FLEX DUCT CUTTER	—



## R4 431 Silver Sleeve Insulation



- Insulation Value: R4.2
- Operating Temperature: -20 to +250° F
- Vapor Transmission: .10 perm
- No adhesives or fasteners needed
- Less installation time

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
100	FT	19120	431-4 6IN 5FT SILVER SLEEVE INSULATION	—	—
100	FT	19121	431-4 7IN 5FT SILVER SLEEVE INSULATION	—	—
100	FT	19122	431-4 8IN 5FT SILVER SLEEVE INSULATION	—	—
100	FT	19123	431-4 9IN 5FT SILVER SLEEVE INSULATION	—	—
100	FT	19124	431-4 10IN 5FT SILVER SLEEVE INSULATION	—	—
100	FT	19125	431-4 12IN 5FT SILVER SLEEVE INSULATION	—	—
50	FT	19126	431-4 14IN 5FT SILVER SLEEVE INSULATION	—	—
50	FT	19127	431-4 16IN 5FT SILVER SLEEVE INSULATION	—	—



## R6 431 Silver Sleeve Insulation



- No adhesives or fasteners needed
- Less installation time
- Packaged in compact cartons
- Uniform and neat appearance

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
75	FT	19131	431-6 6IN 5FT SILVER SLEEVE INSULATION	—	—
75	FT	19132	431-6 7IN 5FT SILVER SLEEVE INSULATION	—	—
75	FT	19133	431-6 8IN 5FT SILVER SLEEVE INSULATION	—	—
75	FT	19134	431-6 9IN 5FT SILVER SLEEVE INSULATION	—	—
75	FT	19135	431-6 10IN 5FT SILVER SLEEVE INSULATION	—	—
50	FT	19136	431-6 12IN 5FT SILVER SLEEVE INSULATION	—	—
50	FT	19137	431-6 14IN 5FT SILVER SLEEVE INSULATION	—	—
50	FT	19138	431-6 16IN 5FT SILVER SLEEVE INSULATION	—	—



## R8 431 Silver Sleeve Insulation

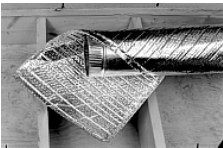


- No adhesives or fasteners needed
- Less installation time
- Packaged in compact cartons
- Uniform and neat appearance

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
45	FT	19166	431-8 6IN 5FT SLEEVE INSULATION	—	—
45	FT	19168	431-8 8IN 5FT SLEEVE INSULATION	—	—
30	FT	19172	431-8 14IN 5FT SLEEVE INSULATION	—	—



## ZIPP-R Foil Insulation



ZIPP-R foil insulation can be used for joist seal, duct wrap, pipe wrap, and floor heat. It reflects heat inside during the winter and outside in the summer. It is as energy efficient as 3" to 5" of mineral fiber. ZIPP-R foil is fast and easy to install. Just measure and fit, then staple or tape seams.

- Resists molds, mildew, fungus
- Cuts heating and cooling costs
- Reduces heat loss
- Inhibits condensation
- Non toxic

### Performance Properties

- Thickness: 5/16"
- Nominal Weight: 1.25 oz. per sq. ft.
- Temperature Range: -60° F to 180° F
- Flame Spread: 20/Smoke Development: 30
- Fire Rating: Class A/Class 1
- Linear Shrinkage: None
- Puncture Resistance: 66 lbs. per sq. in.
- Degradation: 0
- R-Value: 15 (Down) 7.31 (Horizontal) 5.4 (Up)
- U-Value: 0.0820 (Down) 0.119 (Horizontal) 0.139 (Up)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
9	RLL	10576	642 16IN ZIPPR FOIL 32FT ROLL	—	—
9	RLL	10577	642 17IN ZIPPR FOIL 32FT ROLL	—	—
6	RLL	10578	642 24IN ZIPPR FOIL 32FT ROLL	—	—
3	RLL	10579	642 34IN ZIPPR FOIL 32FT ROLL	—	—
1	RLL	10580	642 48IN ZIPPR FOIL 50FT ROLL	—	—



## 923 Pipe Hangers



Position one end of hanger firmly against joist. Tap other end into opposite joist with hammer.

**50 Per Carton, Sold Full Carton Only**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
50	EA	10666	923 15 1/4IN PIPE HANGER	—	—
25	EA	10777	923 17 1/2IN GLV PIPE HANGER BNDL	—	—



## 924 Construction Angle



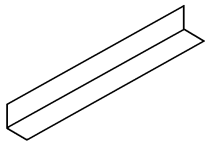
- Ideal stud hanger
- Heavy gauge galvanized steel
- 20" L x 1-1/2"W
- Prepunched holes for easy mounting

**50 Per Carton, Sold Full Carton Only**

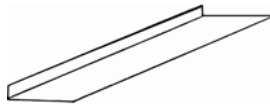
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
50	EA	10796	924 1 1/2X1 1/2X20 GALV STUD SUPPORT	—	—



## 924-SP and 924-60 Stud Frame Angles



924-SP



924-60

### 924-SP

Use to cross brace studs when floor openings are cut for vertical supply or return openings. Cut the length of angle needed to span the cavity and nail one to each side of the studs.

### 924-60

60 in. long x 1-3/4 in. wide with a 3/8 in. 90 degree flange on one side.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
20	EA	10684	924-SP 2X2X96 GALVANIZED ANGLE	—	—
10	EA	10687	924-60 3/8X1 3/4 24GA STUD FRAME ANGLE	—	—



## Hanger Straps



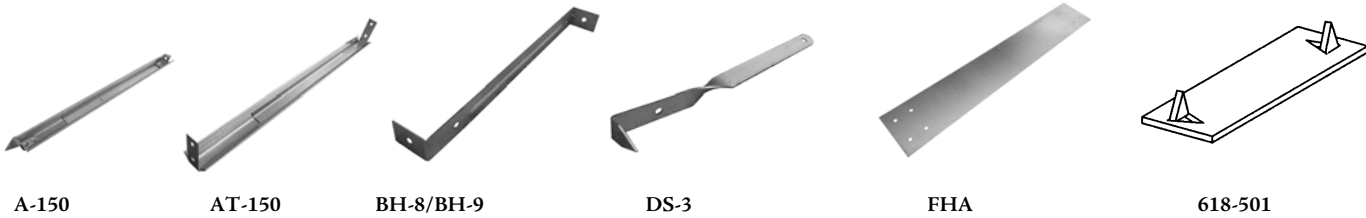
Versatile and economical 24 gauge hanger strap material is available in 1-1/2 inch x 10 feet sizes. There are 10 pieces or 100 feet in an easy to handle bundle. Cut to length as needed on the job for hanging residential or commercial pipe or duct.

**Prices Per CFT**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
100	FT	15852	1200 1 1/2IN X 10FT GALV HANGER STRAP BNDLD	—



## Basset Brackets



**A-150** brackets are for heating, air conditioning, refrigeration, and plumbing...wherever ducts or pipes are installed between joists. 12" to 19".

**AT-150** Basset brackets with screw tabs allow for easy installation into the center section of "I" joists.

**BH-8:** 8" duct hanger for cold air return ducts. (Allows for installation flush with floor joists).

**BH-9:** 9" duct hanger for warm air supply ducts. (Allows for 1" spacing below floor joists). Hangers are made of 18 gauge galvanized steel.

**FHA-200, 300, and 400** stud plates available in 18 to 24" lengths to reinforce top plate when notched for vertical DWV and air duct installations. 16 gauge galvanized steel.

### DS-3 Duct Strap

Self-nailing hanger for all square ducts running below the joists. 18 gauge galvanized steel.

### 618-501 stud guard.

One hammer blow will sink the two barbs to hold the support for nailing.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH	PC-2 F/CTN
50	EA	13379	A-150 BASSET BRACKET	—	—
50	EA	13384	AT-150 TAB BRACKET	—	—
100	EA	13386	BH-8 8" SQ DUCT HANGER	—	—
100	EA	13387	BH-9 9" SQ DUCT HANGER	—	—
100	EA	13378	DS-3 BASSET DUCT STRAP	—	—
50	EA	13393	FHA-400-2416 1-1/2X24 FHA STUD PLATE	—	—
25	EA	13394	FHA-300-1818 3X18 FHA STUD PLATE	—	—
50	EA	13395	FHA-200 1-1/2X18 FHA STUD PLATE	—	—
1	PKG	13392	618-501 1-1/2X6 STUD GUARD(100/PAK)	—	—





## 441 Solid PVC Pipe Heat/Air Duct for Underground Installation

The 441 Heat/Air Duct system utilizes polyvinyl chloride (PVC) tubing, Type SDR 81, for underground duct in heating and cooling ducting systems. Use with ZIPP-R PVC fittings, connectors, and plenums for a compatible, economical, complete underground system.

- PVC Heat/Air Duct shall be installed underground or in and under concrete slabs only.
- PVC Heat/Air Duct shall not be installed in exposed applications or in above-ground applications.
- PVC Heat/Air Duct maximum linear loading shall be in accordance with the manufacturer's recommendations.
- PVC Heat/Air Duct maximum duct temperature should be 150° F.
- PVC Heat/Air Duct shall be installed in conformance with the manufacturer's instructions.
- BOCA approved for underground installation. Research report No. 83.33.

Pipe Size Inches	Temporary Load in Lbs./Ft.	Permanent Load in Lbs./Ft.
10 to 12	790	690
6 to 8	1375	1060

### 441 PVC Pipe

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	FT	25891	441-B 6INX10FT BELL-END SOLID PVC	—
10	FT	25892	441-B 8INX10FT BELL-END SOLID PVC	—
10	FT	25893	441-B 10INX10FT BELL-END SOLID PVC	—
10	FT	25894	441-B 12INX10FT BELL-END SOLID PVC	—

### PVC Tape and Paint

24	EA	23598	2220 PVC WHITE PRESS SENS TAPE	—
12	EA	23601	2230 ZIPP-R WHITE PLAS PAINT	—

**GENERAL  PLASTICS PVC Fittings**

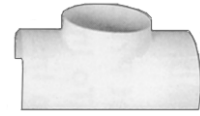

Concentric Reducer



Eccentric Reducer



Starting Collar



Saddle Tee

**Saddle Boots**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	24718	SB212 2 1/4X12 SADDLE BOOT	—
1	EA	24716	SB410 4X10 SADDLE BOOT	—
1	EA	24717	SB412 4X12 SADDLE BOOT	—

**Register Boot**

1	EA	24720	B4106 4X10X6 REGISTER BOOT BOX	—
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**Reducers**

1	EA	24754	RC86P 8X6 CONCENTRIC REDUCER	—
1	EA	24751	RE10P 10X8 ECCENTRIC REDUCER	—

**Starting Collars**

1	EA	24766	SC60P 6IN STARTING COLLAR	—
1	EA	24767	SC80P 8IN STARTING COLLAR	—

**Wyes and Multifit Wyes**

1	EA	24723	B1086 MULTIFIT WYE	—
1	EA	24724	BY864 MINI MULTIFIT WYE	—

**Tees**

1	EA	24793	T666P 6X6X6 TEE	—
1	EA	24794	T886P 8X8X6 TEE	—

**Saddle Tees**

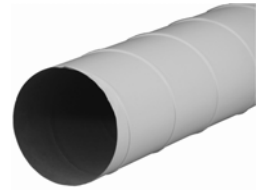
1	EA	24815	S106P 10X6 SADDLE TEE	—
1	EA	24816	S108P 10X8 SADDLE TEE	—
1	EA	24818	S128P 12X8 SADDLE TEE	—
1	EA	24819	S121P 12X10 SADDLE TEE	—
1	EA	24820	S146P 14X6 SADDLE TEE	—
1	EA	24822	S141P 14X10 SADDLE TEE	—
1	EA	24823	S142P 14X12 SADDLE TEE	—

NOTE: Not Stocked at all branches, ask your Berkheimer Representative for details.



## 540 PVC Duct

Corrosion Resistant, Lightweight, and Strong

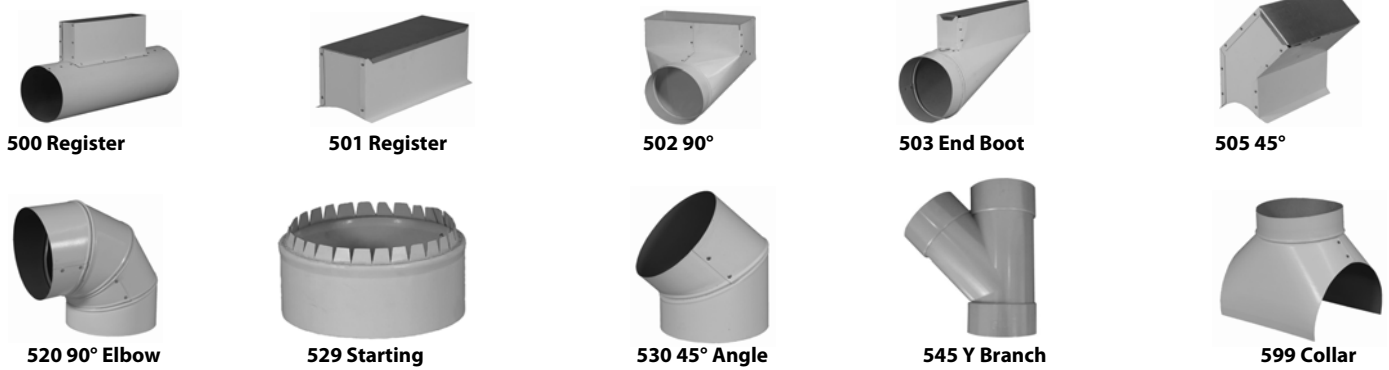


- Gauge of PVC**
- 3" to 8": 26 GA
  - 9" to 14": 24 GA
  - 16" to 22": 22 GA
  - 24" to 28": 20 GA
  - 30" to 36": 18 GA

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	FT	23572	540 4IN 10FT PVC DUCT	—
10	FT	23573	540 5IN 10FT PVC DUCT	—
10	FT	23574	540 6IN 10FT PVC DUCT	—
10	FT	23575	540 7IN 10FT PVC DUCT	—
10	FT	23576	540 8IN 10FT PVC DUCT	—
10	FT	23577	540 9IN 10FT PVC DUCT	—
10	FT	23578	540 10IN 10FT PVC DUCT	—
10	FT	23579	540 12IN 10FT PVC DUCT	—
10	FT	23580	540 14IN 10FT PVC DUCT	—
10	FT	23581	540 16IN 10FT PVC DUCT	—
10	FT	23582	540 18IN 10FT PVC DUCT	—
10	FT	23584	540 22IN 10FT PVC DUCT	—
10	FT	23585	540 24IN 10FT PVC DUCT	—
10	FT	23586	540 26IN 10FT PVC DUCT	—



## PVC Accessories



### 500 Register Perimeter Tee

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	23486	500 2 1/4X12 ON 8 PVC TEE	—
12	EA	23489	500 2 1/4X12 ON 14 PVC TEE	—
12	EA	23492	500 2 1/4X14 ON 10 PVC TEE	—
12	EA	23487	500 4X10 ON 6 PVC TEE	—
12	EA	23502	500 4X14 ON 8 PVC TEE	—
12	EA	23503	500 4X14 ON 10 PVC TEE	—
6	EA	23505	500 4X14 ON 14 PVC TEE	—
12	EA	23608	500 4X12X14 PVC REGISTER TEE CTN	—

### 501 Register Saddles

12	EA	23517	501 2 1/4X12 PVC SADDLE	—
12	EA	23514	501 2 1/4X14 PVC SADDLE	—
12	EA	23521	501 4X10 PVC SADDLE	—
12	EA	23522	501 4 X 12 PVC SADDLE	—
12	EA	23516	501 4X14 PVC SADDLE	—

### 502 90 Degree Register Boot

12	EA	23530	502 2 1/4X12X6 PVC BOOT	—
12	EA	23531	502 2 1/4X14X6 PVC REGISTER BOOT	—
12	EA	23529	502 2 1/4X12X8 PVC REGISTER BOOT	—
12	EA	23537	502 2 1/4X14X8 PVC REGISTER BOOT	—
12	EA	23535	502 4X10X8 PVC REGISTER BOOT CTN	—
12	EA	23532	502 4X12X8 PVC REGISTER BOOT CTN	—
12	EA	23533	502 4X14X6 PVC REGISTER BOOT CTN	—
12	EA	23536	502 4X14X8 PVC REGISTER BOOT CTN	—
12	EA	23538	502 4X10X6 PVC BOOT	—
12	EA	23544	502 4X12X6 PVC BOOT	—

### 503 End Boot

12	EA	23549	503 2 1/4X10X6 PVC BOOT	—
12	EA	23550	503 2 1/4X12X6 PVC BOOT	—
12	EA	23552	503 2 1/4X14X6 PVC BOOT	—
12	EA	23554	503 2 1/4X14X8 PVC BOOT	—
12	EA	21047	503SP 3 1/4X10X6 PVC END BOOT W/6IN RISE	—
12	EA	23558	503 4X10X6 PVC BOOT	—
12	EA	23564	503 4X12X6 PVC BOOT	—
12	EA	23562	503 4X12X8 PVC BOOT	—

### 505 45 Degree Register Saddle

12	EA	23632	505 2-1/4X12 PVC OFFSET SADDLE	—
12	EA	23633	505 4X12 PVC OFFSET SADDLE	—

Continued on the Following Page

*Continued from the Previous Page*

**520 Elbows**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	23222	520 5IN PVC ELBOW	—
12	EA	23223	520 6IN PVC ELBOW	—
12	EA	23224	520 7IN PVC ELBOW	—
12	EA	23225	520 8IN PVC ELBOW	—
12	EA	23226	520 9IN PVC ELBOW	—
12	EA	23227	520 10IN PVC ELBOW	—
8	EA	23228	520 12IN PVC ELBOW	—
1	EA	23229	520 14IN PVC ELBOW	—
1	EA	23230	520 16IN PVC ELBOW	—
1	EA	23232	520 20IN PVC ELBOW	—

**529 Starting Collars**

24	EA	23398	529 6IN PVC STARTING COLLAR	—
24	EA	23400	529 8IN PVC STARTING COLLAR	—
24	EA	23401	529 10IN PVC STARTING COLLAR	—
12	EA	23402	529 12IN PVC STARTING COLLAR	—

**530 Angles**

24	EA	23246	530 4IN PVC ANGLE	—
24	EA	23248	530 6IN PVC ANGLE	—
24	EA	23249	530 7IN PVC ANGLE	—
24	EA	23250	530 8IN PVC ANGLE	—
24	EA	23251	530 9IN PVC ANGLE	—
24	EA	23252	530 10IN PVC ANGLE	—
12	EA	23253	530 12IN PVC ANGLE	—
1	EA	23254	530 14IN PVC ANGLE	—
1	EA	23256	530 18IN PVC ANGLE	—
1	EA	23257	530 20IN PVC ANGLE	—

**545 Y Branch**

12	EA	23270	545 8X6X6 PVC Y BRANCH	—
12	EA	23272	545 10X8X8 PVC Y BRANCH	—

**599 Collar Saddle**

12	EA	23467	599 6X10IN PVC COLLAR SADDLE	—
12	EA	23468	599 6X12IN PVC COLLAR SADDLE	—
12	EA	23469	599 6X14IN PVC COLLAR SADDLE	—
12	EA	23475	599 8X10IN PVC COLLAR SADDLE	—
12	EA	23476	599 8X12IN PVC COLLAR SADDLE	—
12	EA	23477	599 8X14IN PVC COLLAR SADDLE	—
12	EA	23479	599 8X18IN PVC COLLAR SADDLE	—



## PVC Tees



550



551

- 3"-12" tees will be supplied as smooth flow, straight, or reducing.
- 14"-20" will be supplied as smooth flow straight only (A=B=C) either a No. 580 or No. 581 reducer must be used if a reducing tee is needed.
- 22"-36" will be supplied as straight barrel tee, stub size will be supplied as ordered. A No. 580 or No. 581 must be used to reduce barrel. A No. 533 connector must be used to connect barrel to pipe.

### 550 90° Tees

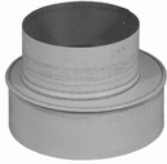
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	23275	550 6X6X6 PVC TEE	—
12	EA	23283	550 8X8X6 PVC TEE	—
12	EA	23282	550 8X8X8 PVC TEE	—
6	EA	23287	550 9X9X9 PVC TEE	—
6	EA	23288	550 10X10X10 PVC TEE	—
6	EA	23292	550 12X12X12 PVC TEE	—
3	EA	23296	550 14X14X14 PVC TEE	—
1	EA	23299	550 16X16X16 PVC TEE	—
1	EA	23300	550 18X18X18 PVC TEE	—
1	EA	23301	550 20X20X20 PVC TEE	—
1	EA	23306	550 36X36X36 PVC TEE	—
6	EA	25038	550 8X8X10 PVC TEE	—

### 551 45° Tee

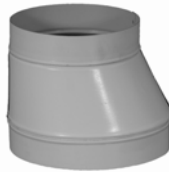
12	EA	23310	551 6IN PVC TEE	—
12	EA	23313	551 8X6X6 PVC TEE	—
12	EA	23314	551 8X8X6 PVC TEE	—
6	EA	23318	551 10IN PVC TEE	—
6	EA	25359	551 10X8X8 PVC TEE	—
3	EA	23321	551 12IN PVC TEE	—
3	EA	23323	551 14IN PVC TEE	—
1	EA	23325	551 16IN PVC TEE	—



## PVC Reducers and Connectors



580



581



533

### 580 Reducer

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	23374	580 8X6 PVC REDUCER	—

### 581 Tapered Reducer

12	EA	23413	581 8X6 PVC TAPERED REDUCER	—
12	EA	23416	581 10X8 PVC TAPERED REDUCER	—
12	EA	23425	581 12X8 PVC TAPERED REDUCER	—
12	EA	23427	581 12 X 10 TAPERED REDUCER	—

### 533 Connectors

12	EA	23440	533 4IN PVC CONN	—
12	EA	23441	533 5IN PVC CONN	—
12	EA	23442	533 6IN PVC CONN	—
12	EA	23444	533 8IN PVC CONN	—
12	EA	23445	533 9IN PVC CONN	—
12	EA	23446	533 10IN PVC CONN	—
12	EA	23447	533 12IN PVC CONN	—
12	EA	23448	533 14IN PVC CONN	—
12	EA	23449	533 16IN PVC CONN	—
12	EA	23450	533 18IN PVC CONN	—
12	EA	23451	533 20IN PVC CONN	—
1	EA	23452	533 22IN PVC CONN	—
1	EA	23453	533 24IN PVC CONN	—



## 560 PVC End Cap



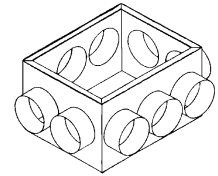
560 PVC End Caps fit tight to provide a positive seal. To meet F.H.A. approvals, hardcast is required at all joints.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	23346	560 6IN PVC END CAP	—
12	EA	23347	560 7IN PVC END CAP	—
12	EA	23348	560 8IN PVC END CAP	—
12	EA	23350	560 10IN PVC END CAP	—
12	EA	23351	560 12IN PVC END CAP	—
12	EA	23352	560 14IN PVC END CAP	—
12	EA	23353	560 16IN PVC END CAP	—
1	EA	23354	560 18IN PVC END CAP	—



### PVC Furnace Plenums

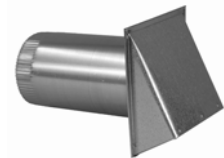
22 gauge, 4 mil. outside, 1 mil. inside, polyvinyl coated. Meets F.H.A. and B.O.C.A. requirements for underground applications.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	23625	651 16X16-8 RUN PVC PLENUM	—
1	EA	23626	651 16X20-10 RUN PVC PLENUM	—



### 1097 Fresh Air Intake



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	13172	1097 6IN AIR INTAKE	—	—
12	EA	13174	1097 8IN AIR INTAKE	—	—



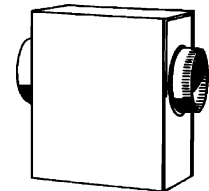
### 190 Vertical Draft Diverter



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	13268	190 4IN VERT DIVERTER	—	—
6	EA	13269	190 5IN VERT DIVERTER	—	—
6	EA	13270	190 6IN VERT DIVERTER	—	—
4	EA	13271	190 7IN VERT DIVERTER	—	—
4	EA	13272	190 8IN VERT DIVERTER	—	—
1	EA	13274	190 10IN VERT DIVERTER	—	—



### 191 Horizontal Draft Diverter



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	13287	191 3IN HORIZ DIVERTER	—	—
6	EA	13288	191 4IN HORIZ DIVERTER	—	—
6	EA	13290	191 6IN HORIZ DIVERTER	—	—



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# ***Group 2 Air Movement, Ventilation, and Motors***

**Group 2 Air Movement, Ventilation, and Motors**

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Dryer Ventilation.....	2 - 9
Whole House Ventilation.....	2 - 10
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# BROAN Bathroom Ventilators

## Fan Only



### Models 670 and 671 Deluxe Fans for Ceiling or Wall Installation

Housing: 8 x 8-1/4". Includes damper/duct connector. Fits 3" round duct.  
 Grille: 10 x 10-9/16". Lifetime-lubricated, plug-in motor guaranteed for five years. U.L. listed for over bathtubs and showers when connected to a GFCI protected branch circuit.

- Model 670: 50 CFM, 3.5 sones.
- Model 671: 70 CFM, 6.0 sones.

### Model 688 Economy Fans for Ceiling or Wall Installation

Molded plastic impellers, two-pole motors, 8" x 8-1/4" x 3-3/4" housing. New snap-in plastic grille. Damper/duct connector fits 3" round duct. U.L. listed for use over bathtubs and showers when connected to a GFCI protected branch circuit.

- Model 688: 50 CFM, 4.0 sones.

### Model 676 and 684 for Ceiling Installation

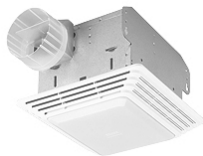
Centrifugal blower wheel, 4-pole 1500 RPM motor for high performance at low sound level. Quiet plastic damper. Handsome 11-1/8" x 10-5/8" plastic grille. 8" x 8-1/4" x 5-3/4" high housing. Damper/duct connector fits 4" duct. U.L. listed for use over bathtubs and showers when connected to a CFCI protected branch circuit.

- Model 676: 110 CFM, 4.0 sones.
- Model 684: 80 CFM, 2.5 sones.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	64005	671 70 CFM 6.0 SONES BROAN FAN	—
1	EA	64027	676 110 CFM 4.0 SONES BROAN FAN	—
1	EA	64028	684 80 CFM 2.5 SONES BROAN FAN	—
1	EA	64029	688 50 CFM 4.0 SONES BROAN FAN	—
1	EA	64031	670 50 CFM 3.5 SONES BROAN FAN	—

# BROAN Bathroom Ventilators

## Fan with Light



Compact units provide ventilator and 100 watt light capacity in one unit (bulb not included). Molded 11-1/8" x 10-5/8" plastic grille and shatter-resistant lens. 8" x 8-1/4" x 5-3/4" high housing.

- Damper/duct connector included. Fits 4" round duct.
- U.L. listed for use over bathtubs and showers when connected to a GFCI protected branch circuit.
- Model 678: 50 cfm, 2.5 sones.
- Model 679: 70 cfm, 3.5 sones.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	64026	678 50 CFM 2.5 SONES BROAN FAN/LIGHT	—
1	EA	64030	679 70 CFM 3.5 SONES BROAN FAN/LIGHT	—

## BROAN® QTR Bathroom Fans



- Extremely quiet operation.
- Designed for easy installation.
- Motor engineered for continuous operation.
- 4 inch duct connector.
- UL listed for use over tub/shower with GFCI circuit.
- 11-1/4" x 10-3/8" x 7-5/8" housing fits 2" x 8" construction.
- Grille Dimensions: Fan: 13" x 14".

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	64022	QTR 080 1.0 SONE 80 CFM BROAN FAN	—
1	EA	64023	QTR 110 1.5 SONE 110 CFM BROAN FAN	—

## BROAN® QTXE Bathroom Fans and Fan/Lights



QTXE 080, QTXE110

- Nearly silent operation.
- 6 inch ducting for superior performance.
- Designed to meet Energy Star standards.
- Bright, energy efficient 26 watt fluorescent bulb included on lighted models.
- 4 watt nightlight on lighted models.
- Motor engineered for continuous operation.
- UL listed for use over tub/shower with GFCI Circuit.
- 11-1/4" x 10-3/8" x 7-5/8" housing fits 2" x 8" construction.
- Grille Dimension: Fan: 14" x 15"; Fan/Light: 13-3/8" x 14-1/4".



QTXE 080FL, QTXE 110FL

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	64008	QTXE 080 .4 SONE 80 CFM BROAN FAN	—
1	EA	64009	QTXE 080FLT .4 SONE 80 CFM BROAN FAN/LIGHT	—
1	EA	64016	QTXE 110 1.1 SONE 110 CFM BROAN FAN	—
1	EA	64018	QTXE 110FLT 1.1 SONE 110 CFM BROAN FAN/LIGHT	—

# BROAN Bathroom Ventilator

## Fan with Heat and Light



1300 watt heater with metal blower wheel for efficient, even heat distribution, plus 100 watt light capacity in one compact unit (bulb not included). Two separate motors for heater and ventilator. Attractive 16-3/4" x 10-5/8" molded plastic grille and shatter-resistant lens.

Built-in damper/duct connector fits 4" round duct. 14-1/4" x 8-1/4" x 5-3/4" high housing. U.L. Listed for use over bathtubs and showers when connected to a GFCI protected branch circuit.

- 70 CFM
- 4.0 sones

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	64025	655 70 CFM 4.0 SONES BROAN HEATER/FAN/LIGHT	—

# BROAN Lo-Sone® Commercial Ventilators



## L100, L150, L200, and L300 Ceiling Mount Ventilators

Single, impact resistant centrifugal blower wheel driven by low RPM motor. 12-1/2" x 12-1/2" x 11-3/4" high housing. Low profile white polymeric grille (14" x 14"). Built-in backdraft damper. 120V

**L100:** Horizontal Discharge 109 CFM, 0.9 Sones; Vertical Discharge 112 CFM, 1.0 Sones; 6" round duct.

**L150:** Horizontal Discharge 157 CFM, 1.5 Sones; Vertical Discharge 160 CFM, 1.6 Sones; 6" round duct.

**L200:** Horizontal Discharge 210 CFM, 1.7 Sones; Vertical Discharge 207 CFM, 2.0 Sones; 8" round duct.

**L300:** Horizontal Discharge 308 CFM, 2.9 Sones; Vertical Discharge 313 CFM, 3.0 Sones; 8" round duct.

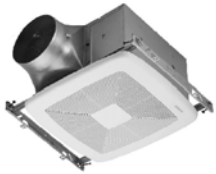
## L500 Ceiling Mount Ventilator

Two impact resistant centrifugal blower wheels driven by low RPM motor with a 21-1/2" x 12-1/4" x 11-3/4" high housing. Sturdy, low profile metal grille finished with painted white enamel (21" x 14"). Discharges horizontally or vertically through 4-1/2" x 18-1/2" duct connector. 120V.

**L500:** Horizontal Discharge 514 CFM, 3.3 Sones; Vertical Discharge 512 CFM, 3.2 Sones.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	64056	L100 LO-SONE SELECT FAN	—
1	EA	64057	L150 LO-SONE SELECT FAN	—
1	EA	64058	L200 LO-SONE SELECT FAN	—
1	EA	64059	L300 LO-SONE SELECT FAN	—
1	EA	64060	L500 LO-SONE SELECT FAN	—

# BROAN Ultra™ Series Fans and Fan/Lights



Fans



Fans/Lights

- Ultra Smart™ Control Technology enables these fans to maintain their powerful operation even at high static pressures, and supply the required air movement levels for whole-house ventilation while meeting the spot ventilation needs of a bathroom.
- The Ultra Silent™ Sound Technology surpasses the ASHRAE 62.2 standard by measuring a barely audible 0.3 sones or less.
- The Ultra Green™ DC Motor Technology meets Energy Star® CFM-per-watt requirements and in some cases are nearly 10 times more efficient.
- The Ultra Quick™ Installation Technology has exclusive features such as a telescoping mounting frame with pre-installed screws, snap-in housing, snap-in blower and an inside-out mounting duct connector. It offers expandable mounting frame design which adjusts from 14" to 24" wide and fits any type of joist, I-joist or truss construction.
- Ultra Lucent™ Lighting Technology ensures even lighting, maximizing the lumen output per watt of the bulb.

Model No.	Duct Size (In.)	CFM	Constant CFM Range	Sones	Light/Night Light	Housing Dimensions W x L x H (In.)	Grille Dimensions L x W (In.)	Amps
XB80	6	80	—	<0.3	—	11-3/8 x 10-1/2 x 7-5/8	13 x 14	0.1
XB110	6	110	—		—		13 x 14	0.2
XB80L	6	80	—		2-18W GU24/4W		13 x 13-3/4	0.7
XB110L	6	110	—		2-18W GU24/4W		13 x 13-3/4	0.9
ZB80	6	80	30-80		—		13 x 14	0.1
ZB110	6	110	30-110		—		13 x 14	0.2
ZB80L	6	80	30-80		2-18W GU24/4W		13 x 13-3/4	0.8
ZB110L	6	110	30-110		2-18W GU24/4W		13 x 13-3/4	0.9

## Single-Speed Fans

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	64216	XB80 80 CFM ULTRA BROAN FAN	—
1	EA	64217	XB110 110 CFM ULTRA BROAN FAN	—
1	EA	64218	XB80L 80 CFM ULTRA BROAN FAN W/LIGHT	—
1	EA	64219	XB110L 110 CFM ULTRA BROAN FAN W/LIGHT	—

## Multi-Speed Fans

1	EA	64220	ZB80 30/80 CFM MULTISPEED ULTRA BROAN FAN	—
1	EA	64221	ZB110 30/110 CFM MULTISPEED ULTRA BROAN FAN	—
1	EA	64222	ZB80L 30/80 CFM MULTISPEED ULTRA BROAN FAN W/LIGHT	—
1	EA	64223	ZB110L 30/110 CFM MULTISPEED ULTRA BROAN FAN W/LIGHT	—

# BROAN Accessories for Bathroom Ventilators



### 639, 641, 643, and 885 Wall Caps

Built-in bird screen. 639 has a spring-loaded backdraft damper and 641 has a built-in backdraft damper. The 639 and 885 have a steel baked black enamel finish. The 641 and 643 have an aluminum natural finish.

### BD6 Pressure Relief Damper

- Includes wall cap and collar, 6".

### 472 Reducer and Damper

- Reduces from 10" round duct to 8" round duct.
- Includes damper.

### 437, 634 and 636 Roof Jacks

- Built-in backdraft damper with bird screen.
- Steel baked black enamel finish.

### 57W Electronic Variable-Speed Control

- 120V, 3 amps, fits single-gang box.
- Rotary dial for variable selection of fan speed and sound level.
- Use with all Broan fans within Amp rating except Models 670, 678, 682, 688, 689, and ceiling paddle fans.

### 66W Fan-Heat-Light Control

- Three independent, 120V, 60 cycle 15 A circuits.
- Fits single gang box.
- For all Broan heaters and fans within Amp ratings.
- 66W white with plastic wall plate.

### 68W Two-function Control

- Two independent, 120V, 60 cycle 15 A circuits.
- Fits single gang box.
- For all Broan heaters and fans within Amp ratings.

## Wall Caps

For Use with the Following	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
3-1/4" x 10" Duct	1	EA	64000	639 3-1/4X10 DUCT BROAN WALL CAP	—
6" Round Duct	1	EA	64032	641 6' RD DUCT BROAN WALL CAP(ALUM FINISH)	—
8"	1	EA	64091	643 8" RD ALUMINUM WALL CAP	—
3" to 4" Round Duct	6	EA	64090	885BL 3"-4" RD DUCT BROAN WALL CAP W/B-SCREEN	—

## Dampers

6" Round Duct	1	EA	64049	BD6 BROAN PRESSURE RELIEF DAMPER	—
471 Fan	1	EA	64004	472 BROAN REDUCER & DAMPER	—

## Roof Jack

High performance blower system	1	EA	64068	437 10" HIGH CAP ROOF JACK TO 1200 CFM	—
3-1/4" x 10" or up to 8" Round Duct	1	EA	64007	634 3-1/4X10/8 RD DUCT BROAN ROOF JACK	—
3" or 4" Round Duct	1	EA	64013	636 3/4" RD DUCT BROAN ROOF JACK	—

## Controls

For all Broan fans max. 20 amps	1	EA	64006	57W BROAN SOLID STATE CONTROL	—
For all Broan fans max. 20 amps	1	EA	64001	66W BROAN HTR-FAN-LIGHT CONTROL	—

## BROAN Ceiling Fans



### Model 504

50 CFM, 6.5 sones, 10" fan. Rubber motor mounts prevent vibration for quiet operation. Polymer Grille 13-1/2" sq. can be painted to match any decor. Steel housing 10-1/4" dia. x 7" (does not include damper). Use with 10" duct or use Broan Model 472 reducer/damper for 8" duct. Mounting brackets with keyhole slots adjustable to 24" span. 10" fan, 10" discharge opening.

### Model 505

180 CFM, 4.5 sones, 8" fan. Polymer grille 11-1/4" sq. can be painted to match any decor. Steel housing 8-1/4" dia. x 7" with built-in damper. Fits 8" duct. Mounting brackets with keyhole slots adjustable to 24" span. 8" discharge opening.



### Model 502

270 CFM, 7.0 sones, 10" fan. Polymer grille 13-1/2" sq. can be painted. Steel housing 13-7/8" x 16-3/4" x 3-1/4"; installs easily between ceiling joists or wall studs. Built-in damper. Fits 3-1/4" x 10" duct. Mounting brackets with keyhole slots adjustable to 24" span.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	64010	504 BROAN FAN	—
1	EA	64014	505 BROAN FAN	—
1	EA	64015	502 BROAN FAN	—

## BROAN Wall Fans



### Model 508

270 CFM, 6.0 sones, 10" fan. 13-1/2" sq. grille. Motor and fan assembly offers fast, easy "Twist-Lock" installation and 4-pole motor. White polymer grille, 13-1/2" sq., can be painted. Steel housing 10-3/8" diameter with 14-1/4" square outside flange.

### Model 507

250 CFM, 5.0 sones, 8" fan white polymer 11-1/4" sq. grille can be painted. Specially designed high performance fan blade. Pull chain opens door, turns on fan. No wall switch to wire. Adjusts for walls from 4-1/2" to 9-1/2" thick.



### Model 509

180 CFM, 5.0 sones. 8" wall fan. Grille 11-1/2" sq. Housing 8-3/8" dia. All other features same as model 508.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	64011	508 BROAN FAN	—
1	EA	64012	507 BROAN FAN	—
1	EA	64024	509 BROAN FAN	—



## 3840 Undereave Bath Fan Vent



The 3840 with screen is used as an undereave outlet for venting bath fans to the outside in housing applications. It increases efficiency in all heating and air conditioning applications. This vent features 360° rotation, easy installation and long term durability.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
96	EA	13635	3840WH EAVE VENT HOOD W/SCREEN	—



## TD MIXVENT Series In-line Fans For Round Duct



### Construction

The TD-MIXVENT models 100, 150, and 200 are manufactured in tough reinforced plastic. The TD fan duct connection flanges are manufactured from reinforced plastic, which are constructed from epoxy-polyester coated metal.

### Impellers

The impeller blades are molded in tough ABS plastic.

### Model 100

Single-phase, 120V 60 Hz, shaded pole induction asynchronous motor in die cast aluminum. All motors include two direct speed connection and are also suitable for voltage speed control.

- Class II electrical insulation
- IP 44 protection
- Class B motor insulation

- Safety auto reset Thermal Overload Protection (fuse type)
- Self-lubricating sleeve bearings
- Suitable for working airstreams up to 104° F (40° C)

### Models 150 and 200

Single-phase induction asynchronous motor, with permanent capacitor and external rotor constructed of die cast aluminum. The models include direct two speed connection and are suitable for voltage speed control.

- Class I electrical insulation
- IP 44 protection
- Thermal Overload Protection
- Class B motor insulation
- Sealed for life, ball bearings
- Suitable for working airstreams up to 140° F (60° C)

Model	Nom. RPM	Volts	Max. Watts	Speed	0*	.125*	.25*	.375*	.5*	.75*	1.0*	Max. SP	Duct Dia. (In.)
TD 100	2431	120	23	LS	97	81	51	—	—	—	—	.4	4
	2516	120	26	HS	101	85	57	—	—	—	—	.4	4
TD 150	1709	120	54	LS	218	193	163	128	105	24	—	.8	6
	2289	120	65	HS	293	273	250	227	206	131	35	1.15	6
TD 200	2322	120	139	LS	476	422	373	317	260	40	—	1.38	8
	2781	120	184	HS	538	495	458	418	367	190	10	1.625	8

\*CFM v Static Pressure (SP) WG (In.)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	26646	TD-100 4" INLINE 100CFM MIXED FLOW DUCT FAN	—
1	EA	26647	TD-150 6" INLINE 293 CFM MIXED FLOW DUCT FAN	—
1	EA	26648	TD-200 8" INLINE 538 CFM MIXED FLOW DUCT FAN	—



## Standard Exhaust Kit

### KIT-TD100 Includes

- 1 TD100 exhaust fan
- 1 plastic round grill (PG-100)
- 1 exterior louvered grill (PER-100W)
- Integral mounting bracket



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	26649	KIT-TD100 4" INLINE 101 CFM MIXED FLOW DUCT FAN KIT	—





## Deluxe Exhaust Kit

### KIT-TD150-DV Includes

- 1 TD150 exhaust fan
- 2 plastic round grilles (PG-150)
- 1 exterior louvered grill (PER-150W)
- 1 Y-fitting (SY-6)
- Integral mounting bracket



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	26650	KIT-TD150-DV 6" INLINE 293 CFM MIXED FLOW DELUXE FAN KIT	—



## SWF Sidewall Fan Series

The SWF Series' outdoor rated exterior housing provides easy access from the outside of a building or dwelling. This makes the SWF a great solution for installations where attic space or easy indoor access is difficult and not suitable for traditional PV style in-line mounting. Designed for direct connection in-line with standard diameter round ducting.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	26656	SWF-100 4" SIDEWALL CENTRIFUGAL FAN	—



## Accessories



BOC-100



PG Series



CAR Series



EPBT-60



SPT-100X

### PG Series Premium Grilles

PG-100: 4" plastic grille with 4" steel collar  
 PG-150: 6" plastic grille with 6" steel collar

### CAR Series Backdraft Dampers

Backdraft dampers are designed with galvanized steel collars and have lightweight aluminum damper blades. They are spring loaded for positive closure.

### Grilles

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	26640	BOC-100 4" INTAKE GRILLE W/COLLAR	—
1	EA	26643	PG-100 4" INTAKE GRILL W/ STEEL COLLAR	—
1	EA	26644	PG-150 6" INTAKE GRILL W/ STEEL COLLAR	—

### CAR Series Backdraft Dampers

1	EA	26651	CAR-100 4" STEEL BACKDRAFT DAMPER	—
1	EA	26652	CAR-150 6" STEEL BACKDRAFT DAMPER	—
1	EA	26653	CAR-200 8" STEEL BACKDRAFT DAMPER	—
1	EA	26654	CAR-250 10" STEEL BACKDRAFT DAMPER	—
1	EA	26655	CAR-315 12.4" STEEL BACKDRAFT DAMPER	—

### Miscellaneous Controls

1	EA	26645	EPBT-60 ELECTRONIC PUSH BUTTON TIMER	—
1	EA	26642	PV-100XPS PV-100X AND PRE-WIRED PRESSURE SWITCH	—
1	EA	26641	SPT-100X PRESSURE SWITCH	—



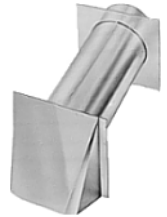
## Dryer Vent Products



VC4



VF



VU4

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
27	EA	13640	1080 VF-405 4X5 WHITE VINYL DUCTING	—	—
24	EA	13647	1080 VU3-24 3IN ALUM VENT HOOD BULK	—	—
50	EA	13651	1080 VC3 3IN FLEX HOSE CLAMP	—	—
24	EA	13643	1080 PH-24 4IN WIDE PLASTIC VENT HOOD	—	—
100	EA	13652	1080 VC4 4IN FLEX HOSE CLAMP	—	—
1	EA	13642	1080 VF-350 3X50 WHITE VINYL DUCTING	—	—
1	EA	13650	1080 VF-450 4X50 WHITE VINYL DUCTING	—	—
1	EA	13649	1080 VF-420 4X20 WHITE VINYL DUCTING	—	—
24	EA	13648	1080 VU4-24 4IN ALUM VENT HOOD BULK	—	—



## DBX1000 Plastic Dryer Vent Box



- Made of high impact polystyrene.
- Snap on trim ring helps eliminate extra drywall, caulking and paint repairs.
- Each box has knockouts for direct venting, down venting, and up venting.
- Comes with knockouts for gas pipe on top and bottom of the box.
- Box can be rotated to accommodate any type of venting.
- White
- Can also be used behind gas stoves to recess the gas hose connection.
- Comes with two straps to help attach the box to both studs.
- You must use a metal dryer box (see DB1000M) in multi-family construction over 3 stories; the DBX1000 plastic dryer vent box can be used in single family and multi-family residential construction.
- UL recognized component.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	55720	DBX1000 2X4 DRYER BOX W/TRIM RING	—
10	EA	55721	DBX1000 2X6 DRYER BOX W/TRIM RING	—
10	EA	55723	DBX-2.001 PLASTIC TRIM RING	—

**Construction**  
SOLUTIONS

## DB1000M Metal Dryer Vent Box



- Eliminates costly back end drywall and paint repairs
- Reduces lint build up that can result in fire and property damage
- Allows the dryer vent hose to be properly recessed and increase airflow
- Helps with dryer efficiency
- Eliminates the kinked hose behind the dryer
- Metal dryer vent box must be used in multi-family construction over 3 stories: The DBX1000 plastic dryer vent box can be used in single family and multi-family residential construction

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	55722	DBXMT TRIM RING	—
10	EA	55725	DBX1000M 2X4 MTL DRYER BOX W/TRIM RING	—
10	EA	55726	DBX1000M 2X6 MTL DRYER BOX W/TRIM RING	—



## Louvered Dryer Vent



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	13630	650-012 4IN WHITE DRYER VENT	—
12	EA	13631	650-023 4IN BROWN DRYER VENT	—
12	EA	13638	650-016 4IN WHITE ASSEMBLED LOUVERED VENT	—

## BROAN® 72W Variable Speed Control

For Whole House Ventilation Models 2230 and 2236



- Positive on/off action: infinitely adjustable air speed/sound level
- 120V, 6 amps
- Fits single-gang box
- Built-in radio noise suppressor
- White

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	64048	72W VARIABLE SPEED CONTROL	—

## Ventamatic® Whole House Fan



- Two-speed, direct-drive permanent split capacitor, electric motor is thermally protected for safety.
- Balanced, aluminum, four-blade fan assembly is attached directly to the shaft of the motor for exceptional efficiency.
- Powder coated finish, steel venturi for enhanced durability.
- Newly designed, joist-in/joist-out shutter design.
- Pre-painted, universal automatic shutter has 95% plus air closure.
- Steel motor struts virtually eliminate vibration.
- High-Low-Off wall switch.
- Ten year, limited warranty on all parts.
- UL Listed

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	22507	CX 302DD-WT DD 29.5X32.25 RGH OPENING WHOLE HOUSE FAN WITH SHUTTER	—

## Ventamatic® Gable Mount Power Attic Ventilator and Automatic Gable Shutter

### Model VX2515 Ventilator

- 60 Hz thermally protected motor
- Adjustable thermostat with built-in safety features
- Two year limited warranty

### Model VX1818 Shutter

- For use with SVG-EE, VX2515, VX2516
- High impact, one-piece ABS Cylolac® frame
- Individually felt-padded .020-gauge aluminum louvers for quiet operation
- May be installed recessed or flush
- Two year limited warranty



VX2515

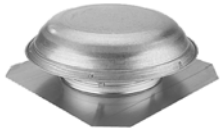


VX1818

Model No.	Mounting Style	Motor Amps	Volts	CFM	Fan Size (In.)	Attic Size (Sq. Ft.)	Intake Vent Area Net Sq. In.
VX2515	Gable	1.9	115	1,300	14	Up to 1,850	600

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6-9	PC-3 10
1	EA	22495	VX2515 1300 CFM GABLE MOUNT POWER VENT	—	—	—
1	EA	22501	VX1818 GABLE MOUNT SHUTTER	—	—	—

## Ventamatic® Roof Mount Power Attic Ventilators



### Model VX1000

- 60 Hz. motor.
- Adjustable thermostat with built-in safety features.
- Venturi construction: galvanized steel.
- Suitable for up to 8/12 roof pitch.
- Two-year limited warranty.

### Model VX1000 Solar

- Included multi-crystal solar panel has 10 watt output, 25 ft power cord and 10-year limited warranty
- Thermostat not included

### Model VX2414

- 60 Hz. motor.
- Adjustable thermostat with built-in safety features.
- Venturi construction: galvanized steel.
- Suitable for up to 8/12 roof pitch.
- Two-year limited warranty on all parts.

### Model VXSVR

- 60 Hz. motor.
- Adjustable thermostat with built-in safety features.
- Venturi construction: galvanized steel.
- Suitable for up to 8/12 roof pitch.
- Limited five-year warranty.

Model No.	Mounting Style	Motor Amps	Volts	CFM	Fan Size	Attic Size (Sq. Ft.)	Intake Vent Area Net Sq. In.
VX1000	Roof	1.9	115	1,080	14"	Up to 1,600	600
VX2414	Roof	3.4	115	1,200	14"	Up to 1,700	600
VX SVR	Roof	5.1	115	1,600	14"	Up to 2,400	600

### Power Attic Ventilators

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6-9	PC-3 10
1	EA	22496	VX1000AM 1080 CFM MILL POWER VENT	—	—	—
1	EA	22510	VX1000SOLARM SOLAR ROOF MILL 1080 CFM POWER VENT	—	—	—
1	EA	22511	VX1000SOLARWG SOLAR ROOF GRAY 1080 CFM POWER VENT	—	—	—
1	EA	22497	VX2414AM 1200 CFM MILL POWER VENT	—	—	—
1	EA	22498	VX2414AMWG 1200 CFM WEATHERED GRAY POWER VENT	—	—	—
1	EA	22499	VXSVRAMWG 1600 CFM WEATHERED GRAY POWER VENT	—	—	—

### Accessories and Replacement Parts

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	22500	XX DUO STAT HUMIDITY & TEMP CNTRL	—
1	EA	22502	XX14 FBLD 14" FAN BLADE ASSEMBLY	—
1	EA	22503	XX ADJTSTAT 415 ADJUSTABLE T-STAT	—
1	EA	22504	XE 4013.4 VX2414 2515 REPLACEMENT MOTOR	—
1	EA	22509	XE 404 2.1 AMP MOTOR	—
1	EA	22512	XXSOLARSTAT SOLAR SWITCH.	—

## Ventamatic® Wind Turbine Attic Ventilators



- Genuine factory replacement parts.
- Adjustable ring feature adapts to most existing base and riser.
- Maintenance-free, no-wear design.
- Easy to install, preassembled for assured performance.
- Limited lifetime warranty.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	22506	CX121BALMIL TURBINE VENT MILL FINISH	—



## LPD Centrifugal Roof/Sidewall Exhauster

### Low Profile Direct Drive



#### Features

- Ultra low profile
- AMCA air and sound licensed
- UL 705 listed
- 5 year housing warranty
- Up to 140° airstream temperature
- Roof or sidewall mount

#### Motor

- Unique external rotor design
- Permanently lubricated bearings
- 3 year motor warranty
- Internal thermal protection
- 100% speed controllable
- Totally enclosed and continuous duty

#### Construction

- Aluminum construction
- Stainless steel exterior fasteners
- Backward curved centrifugal wheel
- Aluminum birdscreen
- Conduit wiring chase
- Service disconnect switch
- Precision balanced to ISO Standard 1940

#### Performance

Model No.	0*	1/8*	1/4*	3/8*	1/2*	5/8*	3/4*	1*	1-1/4*	1-1/2*	1-3/4*	RPM (Nom.)	Max Motor Watts/Amps	Sones @ 1/2"	Ventilator with TE Motor
LPD081	387	358	331	303	275	245	222	178	138	98	63	2775	115/1.0	11.9	LPD081AS

\*CFM @ Static Pressure

#### Dimensions

Model No.	Roof Opening	Damper O.D.	Damper Bercor	12" Mounting Curb O.D.	12" Mounting Curb Bercor	Curb O.D.	Speed Control Bercor	Ship Wt. (Lbs.)
LPD081	11-3/4	11	26472	11-3/4	26471	14-3/4	26473	15

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	26460	LPD081AS LOW PRO DD R/W EXHAUSTER	—



## DB Centrifugal Roof Exhauster

### Downblast Belt Drive



#### Construction

- Heavy-gauge aluminum for extra strength with prepunched mounting hole
- Neoprene isolators for reduction of vibration and sound
- Cover easily removed for quick access to motor compartment
- Water tight conduit tube for easy electrical connection from below roof
- Aluminum birdscreen and disconnect are included on standard models
- Stainless steel exterior fasteners

#### Centrifugal Wheel

- All aluminum backward inclined wheel
- Nonoverloading for safe operation in ducted systems
- Statically and dynamically balanced for smooth operation

#### Drives

- Sized for minimum 150% of drive horsepower
- Machined cast iron adjustable motor pulleys
- Adjustable base for belt tensioning
- Nonstatic oil resistant v-belts

#### Motors

- Single speed open drip-proof are standard
- All motors are rated for continuous duty
- 182T and larger motors shipped unmounted for field installation
- Disconnect switch standard with single speed drip-proof motors

#### Bearings

- Heavy-duty ball bearing type
- Prelubricated and permanently sealed

#### Performance

Model No.	Motor HP	Max. BHp	RPM	Sones @ 1/4 SP	0 *	1/8 *	1/4 *	3/8 *	1/2 *	5/8 *	3/4 *	1 *	1-1/4 *
DB08	1/4	0.25	1700	11.2	1250	1176	1095	1002	900	785	634	—	—
DB11	1/3	0.34	1685	13.5	1793	1704	1609	1510	1400	1281	1165	894	485
DB12	1/2	0.53	1600	17.8	2399	2306	2209	2108	2001	1882	1760	1489	1109
DB14	1/2	0.50	1225	15.2	2806	2705	2595	2474	2340	2183	1988	1408	—
DB16	3/4	0.79	1155	16.7	4288	4084	3878	3648	3395	3125	2831	1980	—
DB18	1	0.99	1165	21.0	4422	4276	4123	3957	3770	3570	3356	2824	—

\*CFM at Static Pressure

Model No.	Roof Opening	12" Mounting Curb O.D.	12" Mounting Curb Bercor	Damper O.D.	Damper Bercor	Ship Wt. (Lbs.)
DB08	11-1/2	14-3/4	26471	11	26472	80
DB11, 12, 14	19-1/2	22-1/4	26474	18	26476	135
DB16	19-1/2	22-1/4	26474	18	26476	145
DB18	24-3/4	27-3/4	26475	24	26477	160

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	26449	DB08MH1S 1/4HP BD DNBLST R/W EXHAUSTER	—
1	EA	26450	DB11PH1S 1/3HP BD DNBLST R/W EXHAUSTER	—
1	EA	26451	DB12QH1S 1/2 HP BD DNBLST R/W EXHAUSTER	—
1	EA	26452	DB14QH1S 1/2HP BD DNBLST R/W EXHAUSTER	—
1	EA	26453	DB16RH1S 3/4HP 115/208/230 SP BD DNBLST R/W EXHAUSTER	—
1	EA	26454	DB18SH1S 1HP 115/208/(230) SP BD DNBLST R/W EXHAUSTER	—



## RED Centrifugal Roof Exhauster Downblast Direct Drive



### Construction

- Curb cap has prepunched mounting holes for ease of installation
- Fan plate isolates motor compartment from contaminated exhaust air
- Spun aluminum hood and skirt for weather protection and attractive appearance
- Heavy-gauge motor support for rigidity and strength
- Neoprene isolators for reduction of vibration and sound
- Quick access to motor compartment for ease of maintenance
- Conduit passage for easy electrical connection from below roof
- Aluminum birdscreen and disconnect are included on standard models

### Centrifugal Wheel

- Non-overloading for safe operation in ducted systems
- Backward inclined wheels constructed of noncorrosive aluminum
- Statically and dynamically balanced for smooth operation

### Speed Controllable Motors

- Standard motors are single speed, speed controllable and drip-proof
- All motors are rated for continuous duty
- Disconnect is standard with single speed drip-proof motors
- Motors ship mounted as standard

### Solid State Speed Control

Control is matched to the motor and blower wheel to allow continuous reduction in performance allowing adjustments of airflow for system balancing. CFM is reduced in direct proportion to motor speed reduction. Speed control is only available for 115 volt single phase. Exhauster performance can be controlled from the ventilated area.

### Performance

Model No.	Motor HP	Max. BHP	RPM	Sones @ 1/8 SP	0*	1/8 *	1/4 *	3/8*	1/2 *	5/8*	3/4 *	7/8*	1*
RED08	1/25	0.04	1050	4.5	573	468	326	—	—	—	—	—	—
	1/10	0.12	1550	9.5	845	781	705	622	523	398	251	—	—
RED10	1/4	0.27	1600	12.4	1436	1348	1256	1155	1041	910	766	604	412
RED12	1/2	0.52	1750	18.3	2352	2226	2104	1973	1832	1689	1562	1443	1324

\* CFM at Static Pressure

Model No.	Roof Opening	12" Mounting Curb O.D.	12" Mounting Curb Bercor	Damper O.D.	Damper Bercor	Speed Control Bercor	Ship Wt. (Lbs.)
RED08	11-3/4	14-3/4	26471	11	26472	26473	50
RED10	11-3/4	14-3/4	26471	18	26472	26473	50
RED12	19-1/4	22-1/4	26474	18	26476	26473 26478	120

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	26462	RED08HM1AS 1/25HP DD DNBLST ROOF VENTILATOR	—
1	EA	26463	RED10MH1AS 1/4HP DD DNBLST ROOF EXHAUSTER	—
1	EA	26464	RED12QH1AS 1/2HP DD DNBLST ROOF EXHAUSTER	—





## TXD Centrifugal Roof/Sidewall Exhauster

### Upblast Direct Drive



#### Construction

- Heavy-gauge aluminum housing and curb cap for strength and rigidity
- Stainless steel exterior fasteners
- Enclosed, ventilated motor compartment isolates motor from exhaust air
- Neoprene isolators for reduction of vibration and sound
- The motor compartment housing easily removes for complete maintenance access
- Water-tight conduit tube for easy electrical connection without having to wire through the breather tube
- Mounted disconnect is included on standard models

#### Centrifugal Wheel

- Non-overloading backward inclined for safe operation in ducted systems
- Wheels constructed of noncorrosive aluminum
- Statically and dynamically balanced for smooth operation

#### Speed Controllable Motors

- Standard motors are single speed, speed controllable and drip-proof
- All motors are rated for continuous duty
- Disconnect is standard with single speed drip-proof motors
- Motors ship mounted as standard

#### Solid State Speed Control

Control is matched to the motor and blower wheel to allow continuous reduction in performance allowing adjustments of airflow for system balancing. CFM is reduced in direct proportion to motor speed reduction. Speed control is only available for 115 volt single phase. Exhauster performance can be controlled from the ventilated area.

#### Performance

Model No.	Motor HP	Max. BHp	RPM	Sones @ 1/8 SP	0*	1/8 *	1/4 *	3/8*	1/2 *	5/8*	3/4 *	7/8*	1*
TXD10	1/4	0.27	1650	14.7	1527	1460	1398	1325	1236	1129	1011	883	747
TXD12	1/4	0.16	1140	9.6	1616	1487	1338	1161	983	760	462	—	—
1/2	.055	1730	21.0	2453	2364	2281	2196	2097	1985	1867	1751	1638	

\*CFM at Static Pressure

Model No.	Roof Opening	12" Mounting Curb O.D.	12" Mounting Curb Bercor	Damper O.D.	Damper Bercor	Speed Control Bercor	Ship Wt. (Lbs.)
TXD10	12	15	26471	11	26472	26473	73
TXD12	19-1/4	22-1/4	26474	18	26476	26473 26478	115

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	26465	TXD10RHULMH1AS 1/4HP DD UPBLAST R/W EXHAUSTER	—
1	EA	26466	TXD12RHULMM1AS 1/4HP DD UPBLAST R/W EXHAUSTER	—
1	EA	26467	TXD12RHULQH1AS 1/2HP DD UPBLAST R/W EXHAUSTER	—



## TXB Centrifugal Roof Exhauster Upblast Belt Drive



### Construction

- Heavy-gauge aluminum housing and prepunched galvanized steel curb
- Enclosed, ventilated motor/drive compartment isolates motor and drives from exhaust air
- The motor compartment housing easily removes for complete maintenance access
- Water-tight conduit tube for easy electrical connection without having to wire through the breather tube
- External weather proof disconnect is included on standard models

### Centrifugal Wheel

- Non-overloading backward inclined for safe operation in ducted systems
- Heavy aluminum hub for extra strength
- Statically and dynamically balanced for smooth, quiet

### Motors

- Single speed drip-proof motors are provided on standard models
- All motors are rated for continuous duty
- Disconnect switch is standard with single speed drip-proof motor

### Drives

- Sized for minimum 150% of drive horse power
- Machined cast iron adjustable motor pulleys
- Adjustable base for belt tensioning
- Static resistant v-belt

### Bearings

- Heavy-duty cast pillow block ball bearing type
- Pre-lubricated with zerk fitting
- Designed for 200,000 hour average life

### Performance

Model No.	Motor HP	Max. BHp	RPM	Sones @ 1/4 SP	0*	1/4 *	3/8 *	1/2*	5/8*	3/4*	1 *	1-1/4*
TXB12	1/4	0.24	1365	13.7	1507	1353	1281	1201	1107	996	703	—
TXB15	1/2	0.50	1255	17.8	2733	2490	2361	2223	2074	1906	1462	—
TXB15	1	1.02	1590	26	3463	3273	3175	3075	2972	2864	2631	2362
TXB18	1-1/2	1.49	1350	24	4857	4630	4518	4406	4291	4169	3906	3621
TXB20	1-1/2	1.60	1115	24	5974	5649	5477	5300	5116	4923	4470	3808

\*CFM at Static Pressure

Model No.	Roof Opening	12" Mounting Curb O.D.	12" Mounting Curb Bercor	Damper O.D.	Damper Bercor	Ship Wt. (Lbs.)
TXB12, 15	19-1/4	22-1/2	26474	18	26476	93
TXB18, 20	24-3/4	27-3/4	26475	24	26477	120

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	26455	TXB12RHULMH1S 1/4HP BD UPBLST R/W EXHAUSTER	—
1	EA	26456	TXB15RHULQH1S 1/2HP BD UPBLST R/W EXHAUSTER	—
1	EA	26457	TXB15RHULSH1S 1HP 115/208/(230)V BD UPBLST R/W EXHAUSTER	—
1	EA	26458	TXB18RHULTH1S 1-1/2HP 115/208/230V BD UPBLST R/W EXHAUSTER	—
1	EA	26459	TXB20RHULTH1S 1-1/2HP 115/208/230V BD UPBLST R/E EXHAUSTER	—
1	EA	26483	90005891-A GREASE BOX FOR TXB 8 - 16	—
1	EA	26484	90005891-B GREASE BOX FOR TXB 18 - 48	—



# CWD Centrifugal Sidewall Exhauster

Direct Drive



### Construction

- Spun aluminum dome for weather protection and attractive appearance
- Ventilated motor compartment with motor out of air stream for long trouble-free service
- Dome easily removes for access to motor compartment
- Weather-tight construction with aluminum birdscreen
- Round duct connection provided at wheel inlet

### Centrifugal Wheel

- Non-overloading backward inclined for safe operation in ducted systems
- Statically and dynamically balanced for smooth, quiet operation

### Motors

- Speed controllable motors available on most models
- Single speed open drip-proof are standard
- Plug disconnect switch standard with single speed drip-proof motors

### Solid State Speed Control

Control is matched to the motor and blower wheel to allow continuous reduction in performance allowing adjustments of airflow for system balancing. CFM is reduced in direct proportion to motor speed reduction. Speed control is only available for 115 volt single phase. Exhauster performance can be controlled from the ventilated area.

### Specifications

Model No.	Motor HP	Max. BHp	RPM	Sones @ 1/8 SP	0*	1/8*	1/4 *	3/8*	1/2 *	5/8*	3/4 *	7/8*	1*
CWD12	1/4	0.26	1100	10.6	1583	1393	1195	995	813	618	410	193	—
CWD14	1/2	0.50	1080	15.7	2585	2454	2281	2040	1722	1433	1170	906	670

\*CFM at Static Pressure

Model No.	Damper O.D.	Damper Bercor	Speed Control Bercor	Ship Wt. (Lbs.)
CWD12	14 x 14	26479	26473	50
CWD14	18 x 18	26476	26478	84

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	26468	CWD12MM1AS 1/4HP DD SIDEWALL EXHAUSTER	—
1	EA	26469	CWD14QM1AS 1/2HP DD SIDEWALL EXHAUSTER	—



## CSTR Shutter Fans



- Totally assembled.
- Motor is totally enclosed maintenance free, high efficiency, sealed ball bearings and UL/ULC certified.
- Corrosion resistant aluminum shutter with tie bar to reduce shutter flapping and opening on windy days.
- One year limited warranty.
- Safety chrome grill on intake side meets OSHA standards. Fan must be mounted 7' above ground level on the exhaust side.
- Includes cord on 12" only.

### Performance

Model No.	Size	SPD	HP	RPM	Hz	Ph	.0 High/Low*	.05 High/Low*	.10 High/Low*	.20 High/Low*	CFM per Watt @ .0 SP
CSTR 12C	12	VAR	1/10	1725	60	1	1200/400	114/380	1080/360	900/300	11/9
CSTR 16	16	VAR	1/10	1725	60	1	2100/735	1995/700	1890/660	1575/550	15/13
CSTR 20	20	VAR	1/3	1725	60	1	5000/1750	4750/1665	4500/1575	3750/1315	18/14
CSTR 24	24	VAR	1/2	17725	60	1	6250/2200	5940/2080	5625/1970	4690/1640	18/14

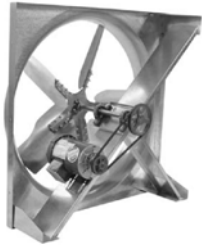
\*CFM at Static Pressure

Model No.	Volts	Amps High/Low	Drive	Blade	Cord (Ft.)	Weight (Lbs.)	L x W x H (In.)
CSTR 12C	115	1.0	DD	3-Alum	9'	22.40	16 x 16 x 13
CSTR 16	115/230	1.0/0.05	DD	3-Alum	No	25.75	20 x 20 x 13
CSTR 20	115/230	3.5/1.7	DD	3-Alum	No	35.94	24 x 24 x 13
CSTR 24	115/230	4.8/2.4	DD	3-Alum	No	47.06	28 x 28 x 14.5

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	26445	CSTR 12C 1/10 HP 115V DD SHUTTER FAN	—
1	EA	26446	CSTR 16 1/10HP 115/230V DD SHUTTER FAN	—
1	EA	26447	CSTR 20 1/3HP 115/230V DD SHUTTER FAN	—
1	EA	26448	CSTR 24 1/2HP 115/230V DD SHUTTER FAN	—



## LC Sidewall Propeller Fan Belt Drive



### Construction

- Heavy-gauge galvanized steel
- All welded motor and drive support frame assembly
- Prepunched mounting holes

### Propeller

- Die formed galvanized steel blades
- Epoxy coated hub keyed to fan shaft
- Statically and dynamically balanced

### Drives

- Sized for minimum 150% of drive horsepower
- Single belt adjustable pitch sheaves through 3 HP
- Nonstatic V-belts

### Bearings

- Designed for minimum 200,000 hour life
- Bearings are sealed, prelubricated with relube fittings

### Motors

- Open drip-proof construction is standard
- All motors mounted and factory run tested

Model No.	Motor HP	Max. BHp	RPM	Sones @ 0 SP	0* CFM	1/10* CFM	1/8* CFM	1/4* CFM	Shutter OD	Shutter Bercor	Ship Weight (Lbs.)
LCE24	1/2	0.60	760	15.7	6753	6254	6112	5212	28-1/2	26480	90
LCE30	3/4	0.90	650	17.1	10638	9853	9594	8198	34-1/2	26470	100

\* CFM at Static Pressure

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	26442	LCE24QH1S 1/2HP W/WHPLCE24 CABINET EXHAUST FAN	—
1	EA	26444	LCE30RH1S 3/4HP 115/208/230 S W/WHPLCE30 CABINET EXHAUST FAN	—



## Ventilation Accessories

### Speed Controls

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	26473	2727.1 115V-1/3 HP SPEED CONTROL	—
1	EA	26478	2828.1 115V 1/2HP SPEED CONTROL	—

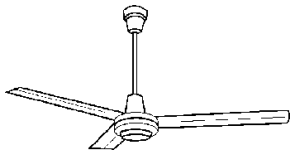
### Gravity Dampers

1	EA	26476	411018 18"OD GRAVITY DAMPER	—
1	EA	26477	411024 24"OD GRAVITY DAMPER	—
1	EA	26479	411014 14"OD GRAVITY DAMPER	—

### Roof Curbs

1	EA	26472	411011 11"OD ROOF CURB	—
1	EA	26471	611214 12" HIGH X 14-3/4OD ROOF CURB	—
1	EA	26474	611222 12"HIGH X 22-1/4 OD ROOF CURB	—
1	EA	26475	611227 12"HX27-3/4OD ROOF CURB	—

# QMARK® Leading Edge Industrial Fans



- Engineered and designed for spacious applications where maximum area coverage is required.
- Designed for both winter heat destratification and summertime cooling.
- Powerful, heavy-duty motor for mounting heights to 45 feet.
- Designed for general applications for above average area coverage and cooling velocity. Ideally suited for factories, gymnasiums, high bay storage facilities.
- 3 year limited parts warranty.
- U.L. listed.

Sweep or Blade Dia. (In.)	56
Number of Poles	18
Design Voltage	120
Frequency	60
Watts at Full Speed	94
Watts at Low Speed	37
RPMs at Full Speed	265

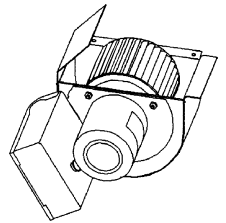
RPMs at Low Speed	100
Amps at Full Speed	.9
Amps at Low Speed	.34
Air Deliver at Full Speed	21,000
Air Velocity (Ft./Min.)	625
Area Coverage (Sq. Ft.)	250

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	64050	CPF56 5621-1 COMMERCIAL CEILING FAN	—
1	EA	64052	12003 3 AMP 120VOLT SOLID STATE CTL	—



## TJERNLUND DB-2 Booster

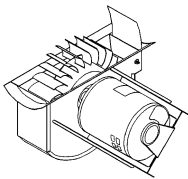
Suitable for temperatures up to 200°. Can be installed at or near top of pipe for quick response to temperature change.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	53943	DB-2 DUCT BOOSTER LESS STAT	—
1	EA	53944	PS1503 DUCT AIRSTAT POS PRESS AIR SWITCH	—



## TJERNLUND In Line Auto-Draft® Inducers



### Model DJ-3

- 1/20 HP, 115V
- 3" to 6" smokepipe size

### Model D-3

- 1/20 HP, 115V
- 5" to 8" vent or smokepipe

### Model I

- 1/4 HP, 115V
- 8" to 12" smokepipe size

### Model IL

- 1/4 HP, 115V
- 9" to 18" smokepipe size

### Model XL

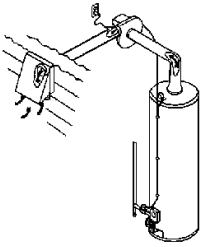
- 3/4 HP, 115/230V
- 16" to 24" smokepipe size

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	53950	D-3 DRAFT INDUCER	—
1	EA	53951	DJ-3 DRAFT INDUCER	—
1	EA	53952	I DRAFT INDUCER	—
1	EA	53953	IL DRAFT INDUCER	—
1	EA	53957	XL DRAFT INDUCER	—

### Accessories

1	EA	53925	UC1 24/115 UNIVERSAL INTERLOCK CONTROL	—
1	EA	53929	MAC1E 24/115 MULTIPLE APPLIANCE CONTROL	—
1	EA	53954	PS2501 PRESS.STAT ADJ DIFF AIRSWITCH	—
1	EA	53955	PS-1505 FAN PROVING SWITCH	—
1	EA	53958	950-3022 MOTOR FOR D-3	—
1	EA	53971	950-1067 VAC TIMER/RELAY	—
1	EA	53974	950-1040 VAC RELAY	—

## TJERNLUND VP-2 and VP-3 Water Heater Vent Packages



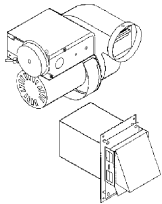
A universal power vent kit for any water heater from 60,000 to 120,000 BTU input. Three inch connection on all components. The 24 volt solenoid assures 100% shutoff in event of power failure. A gas diaphragm switch with tubing connection turns venter on and off with gas flow to the heater. Pipe and elbow not included. Vents up to 75 feet from heater to wall. Unit includes post purge timer to keep venter operating after cycle to rid system of residual gases.

For Use With Water Heaters	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
Up to 60,000 BTU	1	PKG	53946	VP-2F WATER HEATER VENT PKG	—
Up to 120,000 BTU	1	PKG	53945	VP-3F WATER HEATER VENT PKG	—

### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	53967	950-2070 SPILL SWITCH KIT	—
1	PKG	53970	WHKE WATER HEATER CONTROL INTERLOCK	—

## TJERNLUND GPAK Vent System



The GPAK wall vent systems are AGA design certified alternatives to high temperature plastic vent pipe. They include a power venter with operating controls and zero clearance through the wall vent hood. By adding a barometric draft control it can be used to side wall vent 80+ fan assisted and gas furnaces.

For Use with Gas Heaters	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
Up to 250,000 BTU	1	EA	53935	GPAK-1T CAP KIT	—
Up to 120,000 BTU	1	EA	53959	GPAK-JT CAP KIT	—

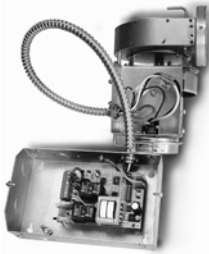
### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	53936	DC-4 4" SINGLE ACTING BAROMETRIC DRAFT CONTROL	—



TJERNLUND

## Side Wall Power Venters



### HS Series with UC1 Control

The heart of the Tjernlund Sidewall Vent Systems. Six models from 50,000 to 1,200,000 BTUs. Eliminates the need for costly vertical chimneys, while increasing appliance efficiency. Integral fan proving switch provides maximum safety.

- Built-in 24/115V relay.
- Premounted diaphragm proving switch.
- Factory wired relay and proving switch.
- Vibration isolation mount.

### UC1 Control Features

- Adjustable pre- and post-purge.
- LED status/diagnostic indicators.
- Prover switch delay to avoid burner start up and wind induced short cycling.
- Interlocks with any 24-120 VAC burner control circuit.
- Includes "dry" contact actuation option.

### Power Venters and Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	53926	HS1 POWER VENTER W/UC1 CONTROL	—
1	EA	53928	HS2 POWER VENTER W/UC1 CONTROL	—
1	EA	53939	HS-3 POWER VENTER W/UC1 CONTROLLER	—
1	EA	53924	HS4 POWER VENTER W/UC1 CONTROL	—
1	EA	53927	HSJ POWER VENTER W/UC1 CONTROL	—
1	EA	53963	950-1020 MOTOR FOR HSJ & HS1	—
1	EA	53964	950-1021 MOTOR FOR HS-2	—

### Vent Hoods

Hood Height (In.)	Tube Length (In.)	Pipe Diameter (In.)	Rough-In Dimension (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
13	7-1/8	4	8	1	EA	53941	VH-1-4 4 IN VENT HOOD	—
12	7-7/8	6-1/2	9	1	EA	53942	VH-1-6 6 IN VENT HOOD	—
18-3/8	15-1/4	8	8-1/2	1	EA	53949	VH1-8 8 IN VENT HOOD	—



 TJERNLUND **Choosing the Correct Power Venter**

**Power Venters Selection Example**

**Given:**

Unit Input = 150,000 BTU/Hr.

Pipe Length = 15 Ft.

Pipe Diameter = 4 In.\*

Pipe Fittings Required = (1) 90° Elbow.

Anticipated Flue Gas Temp. = 400° F.

**Solution:**

**Step 1.** Calculate equivalent pipe length.

Pipe length to sidewall = 15 Ft.

90° elbow equivalent pipe length = 10 Ft.

Total = 25 Ft.

**Step 2.** Enter table at appropriate input and pipe diameter. Read horizontal pipe length under appropriate stack temperature column. For the above example, the Maximum Horizontal Pipe Length is 60 Ft. for the HSUL-1.

**Step 3.** Compare the calculated pipe length with the maximum Horizontal Pipe Length as found in the table. The Maximum Horizontal Pipe Length must be greater or equal to the pipe length calculated in Step 1. The proper power venter for the given conditions is HSUL-1.

**Useful Conversion Factors**

90° elbow = 10 Ft. vent pipe

45° elbow = 5 Ft. vent pipe

Pipe Dia. (In.)	BTU/Hr Input	Stack Temperature	
		300°F	400°F
Model HSJ		Max. Horizontal Length Pipe (Ft.)	
		Gas Fired	Oil Fired
4	25,000-100,000	100	100
<b>Model HSUL-1 and HS1</b>			
4	150,000	100	60
4	200,000	87	57
4	250,000	40	12
4	300,000	4	—
6*	150,000	100	100
6*	200,000	100	100
6*	250,000	100	92
6*	300,000	30	—
<b>Model HS2</b>			
6	350,000	100	100
6	400,000	100	100
6	450,000	100	100
6	500,000	100	100
6	550,000	100	—
6	600,000	67	—
<b>Model HS3</b>			
8	450,000	100	100
8	500,000	100	100
8	600,000	100	100
8	700,000	7	100
<b>Model HS-4</b>			
8	700,000	100	100
8	800,000	100	100
8	900,000	100	100

\* The HS Side Wall Power Venters often allow for a reduction in vent pipe diameter from what is required for conventional venting.



## Field Draft Controls



### Field Type MG1 Draft Control

Double-acting design for smaller-rated gas-fired furnaces and boilers; widely used in conversion burner installations to meet special, high-draft requirements. Opens outward to relieve downdrafts; opens inward to regulate updrafts.



### Field Type M-MG2 Draft Control

A new three-fuel control in sizes 10" through 32", for gas, oil, wood, and coal fired commercial and industrial heating plants.



### Field Type RC Control

Calibrated draft control in sizes 6" through 9" for 5" through 10" flues. Features extreme capacity and reversible wing flap on gate for precise application to either vertical, horizontal, or sloping flues. For oil, wood, and coal.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	53898	MG1 6 IN FIELD CONTROL	—
12	EA	53899	MG1 7 IN FIELD CONTROL	—
12	EA	53900	MG1 8 IN FIELD CONTROL	—
12	EA	53908	MG1 9 IN FIELD CONTROL	—
1	EA	53901	M-MG2 10 IN FIELD CONTROL	—
1	EA	53902	M-MG2 12 IN FIELD CONTROL	—
1	EA	53904	M-MG2 14 IN FIELD CONTROL	—
1	EA	53905	M-MG2 16 IN FIELD CONTROL	—
1	EA	53906	M-MG2 18 IN FIELD CONTROL	—
1	EA	53907	M-MG2 20 IN FIELD CONTROL	—
12	EA	53873	RC 6 IN FIELD CONTROL	—
12	EA	53874	RC 7 IN FIELD CONTROL	—
12	EA	53875	RC 8 IN FIELD CONTROL	—
12	EA	53876	RC 9 IN FIELD CONTROL	—



## Evenair Air Boosters

### 120 Volt Motor

Evenair Air Boosters can be wired in parallel with the furnace blower. AB-6 fan fits into 6" pipe or flex duct. AB-2 will fit a 6" pipe also by cutting out the bottom of pipe and pop riveting fan in place.



AB-2

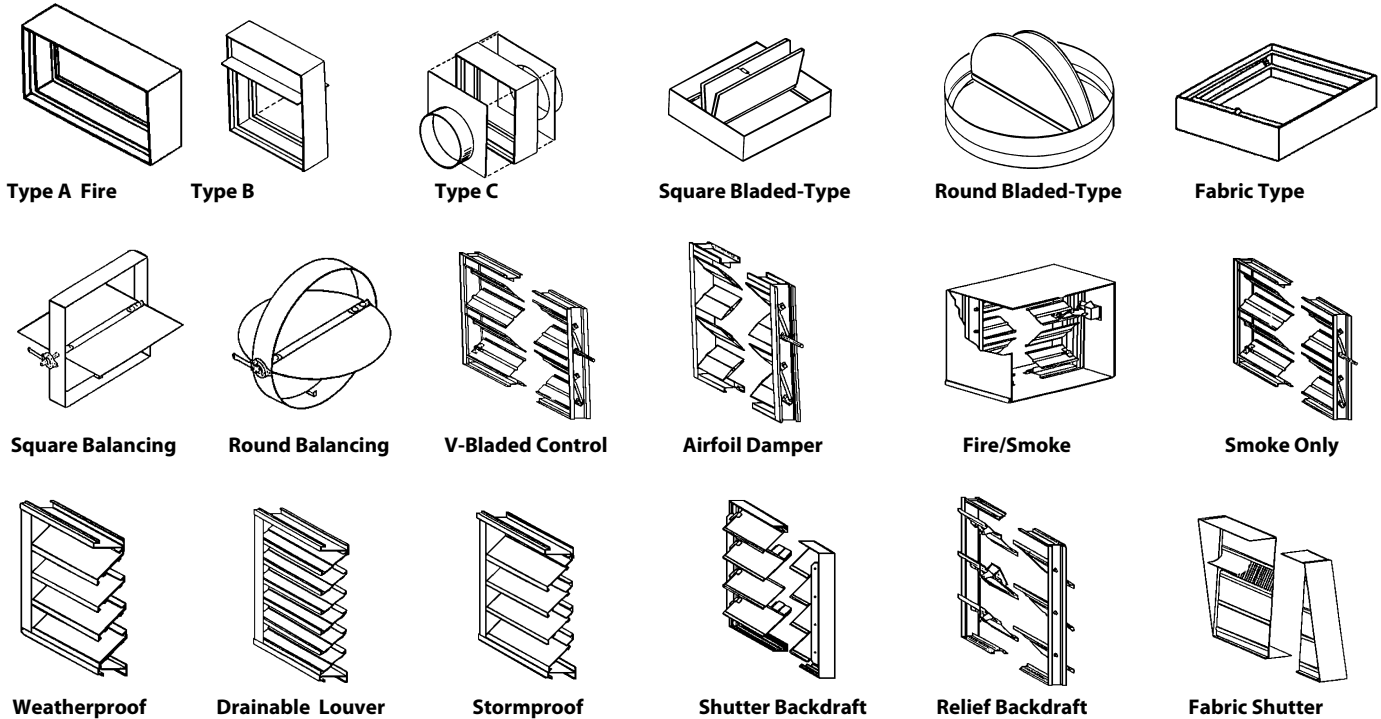


AB-6

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	53933	AB-2 EVENAIR BOOSTER FAN	—
1	EA	53934	AB-6 BOOSTER FAN	—
1	EA	53965	AB-8 BOOSTER FAN	—



## Louvers and Dampers



### Curtain Type Fire Dampers

U.L. classified for 1-1/2 hour protection. They are suitable for installation in 2 hour walls, partitions, and floors. Similar units are available with a 3 hour classification that are suitable for installation in 4 hour walls, partitions, and floors. Units can be mounted either vertically or horizontally. Horizontal units are spring loaded.

### Ceiling Radiation Dampers

Square or round bladed dampers have a 3 hour rating. Fabric dampers have a 1 to 4 hour rating depending upon size. Also available with 1 or 2 round collar transitions and a narrow frame style. Sizes from 4 x 4 to 24 x 24. Center pivot blade type units are available with an air volume controller that eliminates the necessity of a control or balancing damper. U.L. Listed.

### Balancing Dampers

These economical units come complete with a manual quadrant. They can also be manufactured in galvanized, stainless, or aluminum. Stand off plates are available for insulated duct. All units are single blade construction.

### Control Dampers

Available as either opposed blade or parallel blade units. Blade and side seals are optional. Manual locking quadrants, electric motors, or pneumatic operators available. Stainless or aluminum construction optional. Airfoil blade designs are available in a fully extruded unit or a formed galvanized unit.

### Leakage Rated Dampers

Units may be operated by an electric or pneumatic operator. Fire/smoke dampers must be mounted in the wall and contain a fusible link for elevated temperature fail safe closure. The smoke damper must be mounted within 22 inches of a barrier and can be actuated by a wired signal from a smoke detector to the damper operator. Both units are standard with blade and side seals. These dampers are available as Class I or Class II leakage rating. U.L. listed.

### Louvers

Louvers are fabricated from extruded aluminum. Available in stormproof, weatherproof, and drainable blade designs. All units are tested in accordance with AMCA standards for air performance and water penetration. Similar models are available in galvanized steel. Standard frame depths are 4" and 6". A variety of screens are available, as well as a number of finishes, including baked enamel, anodized, and kynar.

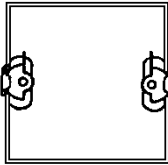
### Back Draft Dampers

These dampers can be mounted vertically or horizontally. Units can be furnished with or without counter balancing. Some units may also be motorized. These dampers can be manufactured with galvanized steel, stainless steel, or aluminum.

**Ask your G. W. Berkheimer representative for specifications and ordering information.**



### Access Door 1/2" Double Cam



The duct access door is available with a double cam lock. The door allows access to the duct for cleaning or servicing dampers. Also available in see-through models.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	25912	625 8X8 ACCESS DOOR 1/2 INSUL	—
1	EA	30970	165 DEG FUSIBLE LINK	—
5	EA	30972	212 DEG FUSIBLE LINK	—



### SM-999 Universal Motor Kit



- Reversible rotation.
- Prefastened multi-fit break-off mounting bracket.
- Easy to use, fewer parts to assemble than competitive motors.
- "Break-off" shaft.
- Volts: 120 Volt, 3000 RPM.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94470	SM-999 UNIV MOTOR KIT	—



### Motor Kits

#### H-Bracket Mounting System

This patented mounting system comes with all of these Acme motor kits. Acme H-Brackets make it possible to replace hundreds of standard units as well as 3.3", 3.5", and 4" round motors.



#### Reversible Evaporator Fan Motor Kits

Model No.	HP	Motor Type (In.)	RPM	Volts	Amps	Fan Blades (In.)
Acme 700™	1/100	5/8 Reversible	3000	115	35	4 and 5-1/2
Acme 702™	1/100	5/8 Reversible	3000	230	35	4 and 5-1/2
Acme 710™	1/100	5/8 Reversible	3000	115	.45	5-1/2
Acme 750™	1/45	1-1/8 Reversible Stack	3000	115	885	Shaft adapter to fit 3/16, 1/4, and 5/16 bores and hubless blades
Acme 7502™	1/45	1-1/8 Reversible Stack	3000	115/230	885/445	Shaft adapter to fit 3/16, 1/4, and 5/16 bores and hubless blades

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	95870	700 115 VOLT REVERSIBLE REPLACEMENT KIT	—
6	EA	95871	702 230 VOLT REVERSIBLE REPLACEMENT KIT	—
1	EA	95872	710 115 VOLT REVERSIBLE REPLACEMENT KIT	—
1	EA	95873	750 115 VOLT-1/45 HORSEPOWER REVERSIBLE REPLACEMENT KIT	—
6	EA	95874	7502 115/230 VOLT-1/45 HP REVERSIBLE REPLACEMENT KIT	—



## Unit Bearing Fan Shaded Pole, Totally Enclosed



- Permanently lubricated bearings
- Individually boxed
- Impedence protected
- Suitable for all angle operation
- 30 inch cord with molded strain relief
- Includes vibration dampener, hub washer, speed nut and four mounting screws

Model	Watt	RPM	Volts	F.L. Amps
2103	4	1550	115	.3
2108	9	1550	115	.6
2109	9	1550	230	.3
2110	9	1550	230	.3
2112	16	1550	115	1.0
2114	16	1550	230	.5
2115	4	1550	115	.3
2116	6	1550	115	.4
2117	6	1550	115	.4
2118	9	1550	115	.6

RPM	F.L. Amps	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1550	.3	1	EA	99492	2110 9 WATT 230V CWLE UNIT BEARING FAN MOTOR	—	—	—
1550	.4	1	EA	99562	2117 6 WATT 115V CWLE UNIT BEARING FAN MOTOR	—	—	—
1550	.6	1	EA	99567	2108 9 WATT 115V CWLE UNIT BEARING FAN MOTOR	—	—	—
1550	.6	1	EA	99569	2118 9 WATT 115V CCWLE UNIT BEARING FAN MOTOR	—	—	—
1550	.3	1	EA	99580	2115 4 WATT 115V CWLE UNIT BEARING FAN MOTOR	—	—	—
1550	.3	12	EA	99614	2103 4 WATT 115V CCWLE UNIT BEARING FAN MOTOR	—	—	—
1550	.4	1	EA	99616	2116 6 WATT 115V CCWLE UNIT BEARING FAN MOTOR	—	—	—
1550	.3	1	EA	99622	2109 9 WATT 230V CCWLE UNIT BEARING FAN MOTOR	—	—	—
1550	1.0	12	EA	99627	2112 16 WATT 115V CWLE UNIT BEARING FAN MOTOR	—	—	—
1550	.5	1	EA	99628	2114 16 WATT 230V CWLE UNIT BEARING FAN MOTOR	—	—	—

## Morrillmotors Evaporator/Condenser Watt Motors



- Output 4-12 watts
- Speed regulated within +/- 6%
- 51 frame unit bearing motor; cast aluminum frame
- Universal 5 hole mount
- ~66% peak efficiency
- 1 discrete speed
- 1/4"–20 threaded shaft
- Side pedestal mounting feet (2 set standard)
- 3.3"

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	99643	00650 4-12 WATTS 115VOLT CW EVAP/CONDENSER-MORRILL MOTOR	—
1	EA	99644	00651 4-12 WATTS 230VOLT CW EVAP/CONDENSER-MORRILL MOTOR	—

## FASCO Universal PSC Motor



- Replaces 12 motor ratings
- Reversible
- Dual voltage
- High efficiency
- 3.3"

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	99651	D1127 1/12 THRU 1/20 MULTI-HP FASCO MOTOR	—

 **Evaporator Nominal Motors**



5100/5101/5200/5201



8040

- 1550 RPM
- Universal "drop-in" replacement for walk-in evaporator
- Totally enclosed, non-vented
- Shaft water slinger
- Standard thru-bolt configurations
- All angle mount
- Power cord with Lyall Plug
- Automatic torque variation, constant speed
- Low temp (-20° F) lubrication system
- 50/60 Hz
- 1 discrete speed
- Ball bearing thermally protected
- 3.3"

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	99647	05101 1/15 NOM HP 115VOLT CCW EVAPORATOR-MORRILL MOTOR	—
1	EA	99648	05201 1/15 NOM HP 208-230V CCW EVAPORATOR-MORRILL MOTOR	—
1	EA	99649	05100 1/15 NOM HP 115VOLT CW EVAPORATOR-MORRILL MOTOR	—
1	EA	99650	05200 1/15 NOM HP 208-230V CW EVAPORATOR-MORRILL MOTOR	—
1	EA	99652	08040 KRACK REFRIG.RETROFIT BRACKET KIT-MORRILL MOTOR	—



**OEM Direct Replacement Motors**  
3.3" Diameter, Shaded Pole and PSC



9650

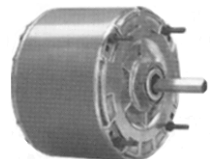
- Two or four 8-32 x 3/4" stud extensions at each end
- Sleeve bearings have all angle thrust system
- Automatic reset thermal overload protection
- 12" leads

Model No.	HP	RPM	Volts	F.L. Amps
9632	1/20	1550	115	—
9650	1/15	1800	208-230	1.1
9653	1/20	1800	115	1.9
9656	1/20	1800	208-230	.87
9662	1/20	1800	115	1.8
9664	1/12-1/20	1550	115/230	1.3/0.7

**Capacitor Not Included**

RPM	F.L. Amps	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1550	—	1	EA	99720	9632 1/20HP 115V 3.3IN CCW SUPER FIT FAN/BLWR MOTOR	—	—	—
1800	1.1	1	EA	99776	9650 1/15 HP 208-230V CCW/CW REFRIG.MOTOR(BOHN)	—	—	—
1800	.87	1	EA	99779	9653 1/20 HP 115V CCW REFRIG.MOTOR (LARKIN)	—	—	—
1800	1.8	1	EA	99778	9656 1/15 HP 208-230V CCW/CW REFRIG.MOTOR (LARKIN)	—	—	—
1800	1.9	1	EA	99777	9662 1/20 HP 115V CCW/REV REFRIG.MOTOR(BOHN)	—	—	—
1550	1.3/0.7	1	EA	99781	9664 1/12-1/20 HP 115/230V CCW/REV.REFRIG.MOTOR	—	—	—

**OEM Replacement Motor for Copeland**



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	99760	588 1/3 HP 208/230V OEM REPL MOTOR	—



## Refrigeration OEM Motors and Fan Blades

### Motors

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96680	950-0108-00 1/3 HP 208/230 VOLT FAN MOTORS	—
1	EA	96681	950-0234-00 1/3 HP 208/230 VOLT FAN MOTORS	—
1	EA	96686	950-0248-00 1/2 HP 208/230 VOLT FAN MOTORS	—
1	EA	96687	950-0250-00 1/4 HP 208/230 VOLT FAN MOTORS	—
1	EA	96688	998-0251-00 1/6 HP 208/230 VOLT FAN MOTORS	—
1	EA	96689	950-0264-01 50 WATT 208/230 VOLT FAN MOTORS	—
1	EA	96690	950-0265-00 1/6 HP 208/230 VOLT FAN MOTORS	—
1	EA	96824	950-0265-01 1/6 HP 460-1 FAN MOTORS	—
1	EA	96691	950-0266-04 1/4 HP 208/230 VOLT FAN MOTORS	—
1	EA	96683	950-0344-00 50 WATT 208/230 VOLT FAN MOTORS	—
1	EA	96684	950-0344-01 50 WATT 115 VOLT FAN MOTORS	—
1	EA	96682	950-0500-00 1/6 HP 208/230 VOLT FAN MOTORS	—
1	EA	96692	998-0550-00 230 VOLT FAN MOTORS	—
1	EA	96693	998-0550-01 460 VOLT FAN MOTORS	—
1	EA	96694	998-0550-04 460 VOLT FAN MOTORS	—

### Fan Blades

1	EA	96695	083-0019-00 8-3/4" DIA 1/4" 23 DEG CW 3 BLADE FAN BLADE	—
1	EA	96697	083-0103-02 FAN BLADES	—
1	EA	96698	083-0118-00 11" DIA 3/8" 30 DEG CW 5 BLADE FAN	—
1	EA	96699	083-0122-00 8" DIA 1/4" 30 DEG CW 5 BLADE FAN	—
1	EA	96696	983-0160-00 11-3/8" DIA 3/4" 32 DEG CW 3 BLADE FAN	—



## Refrigeration Motors and Fan Blades

### Motors

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	98014	25300701S 1/150 HP 115V 3000 RPM CWSE MOTOR	—
1	EA	98027	50215S 1/150HP 120V 3000RPM CWSE MOTOR	—
1	EA	98019	25300101S 1/20 115V 1550RPM CWSE MOTOR	—
1	EA	98020	25300201S 1/20HP 230V 1550RPM CWSE MOTOR	—
1	EA	98021	038688900 1/20HP 230V 1550RPM CW MOTOR	—
1	EA	98015	7071061 1/15HP 230V 1550RPM CCWSE MOTOR	—
1	EA	98016	50365S 1/15HP 115V 1550RPM CWSE MOTOR	—
1	EA	98017	25309101S 1/15HP 230V 1550RPM CCWSE MOTOR	—
1	EA	98018	5036TS 1/15HP 230V 1550RPM CWSE MOTOR	—
1	EA	98023	2537974S 1/4HP 230V 1075RPM CCW MOTOR	—
1	EA	98022	7071208S 1/3HP 230V 1075RPM CCWSE MOTOR	—
1	EA	98031	25309001S 1/3 HP 230V 1075RPM CCWSE MOTOR	—
1	EA	98025	2531194 40MHP 115V 1550RPM CCWSE MOTOR	—

### Fan Blades

1	EA	98005	5101B 5.5IN 24DEG CCW FAN BLADE	—
1	EA	98004	5110E 12IN 24DEG CCW FAN BLADE	—
1	EA	98003	5140C 12IN 23DEG CW FAN BLADE	—
1	EA	98002	026215300 10IN 40DEG 5/16 CCW FAN BLADE	—
1	EA	98011	D21194A2 12IN 19DEG CW FAN BLADE	—



## Aluminum Fan Blades for Walk-in Boxes

These 8", 10", and 12" fan blades will replace Bohn, Singer, and Hill.



Shaft Size	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5/16	1	EA	93882	30805 8 INCH ALUMINUM FAN BLADE CLOCKWISE	—
5/16	12	EA	93884	31005 10 INCH ALUMINUM FAN BLADE CLOCKWISE	—
5/16	12	EA	93885	31015 10 INCH ALUMINUM FAN BLADE COUNTER CLOCKWISE	—
5/16	12	EA	93886	31205 12 INCH ALUMINUM FAN BLADE CLOCKWISE	—

## GE/Emerson Motors Cross Reference

Description	Model		Model	
	GE No.	Bercor No.	Emerson No.	Bercor No.
Multi HP Direct Drive 115V	3463	99586	5460	99540
Multi HP Direct Drive 230V	3464	99587	5461	99537
1/4 HP Direct Drive 115V	3583	99590	1863	99509
1/4 HP Direct Drive 230V	3584	99591	1971	99518
1/3 HP Direct Drive 115V	3585	99592	1864	99510
1/3 HP Direct Drive 230V	3586	99593	1972	99519
1/2 HP Direct Drive 115V	3587	99594	1865	99511
1/2 HP Direct Drive 230V	3588	99595	1973	99520
3/4 HP Direct Drive 115V	3589	99664	8904	99514
3/4 HP Direct Drive 230V	3590	99665	8905	99524
1/4 HP Belt Drive 115V	4701	99678	8000	99515
1/3 HP Belt Drive 115V	4706	99679	8100	99516
1/2 HP Belt Drive 115V	4708	99680	8200	99517
Multi HP Cond Fan Tot Enc	3465	99588	5462	99541
1/4 HP Cond Fan Tot Enc	3728	99706	1860	99654
1/3 HP Cond Fan Tot Enc	3729	99707	1861	99655
1/2 HP Cond Fan Tot Enc	3730	99708	1862	99656
3/4 HP Cond Fan Tot Enc	3731	99710	1868	99662





## 1-Speed, Direct Drive, Fan and Blower Motor Shaded Pole, 5-1/2" Diameter, Open, Single Shaft



- CCW mechanically reversible (viewed opposite shaft end).
- Continuous air over.
- All angle sleeve bearings.
- Easy connection with leads extending out right side of end.
- Automatic thermal overload protection.
- 1/2" diameter shaft 4" long with full flat.
- 2-1/2" resilient ring mounting.
- 60/50 Hertz.
- 6 Pole: 1050 rpm.
- Applications
- Designed for continuous air over applications, such as direct drive residential, commercial, and industrial air conditioners, fans, and blowers.

F.L. Amps	Volts	HP	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
4.5	115	1/8	1	EA	99570	5825 1/6HP 115V 4-SPEED MOTOR	—	—	—
9.2	115	1/4	1	EA	99575	03171 1/4 HP GE MOTOR	—	—	—



## 2-Speed, Direct-Drive, Furnace and Central Air Motor Permanent Split Capacitor, 5-1/2" Diameter, Open, Single Shaft

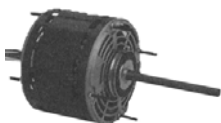


- 2 Speed: 1075, 925 rpm
- Electrically reversible.
- 1 capacitor fits all.
- All angle sleeve bearings.
- Automatic reset overload protection.
- 4 inch long shaft with full flat.
- Mounting holes in shell for capacitor bracket.
- Ring kit allows both 2-1/4" and 2-1/2" resilient ring mounting.
- Designed for 370 volt capacitor (not furnished).
- 60/50 Hertz.
- Applications
- Designed for continuous air over applications such as furnace blowers or central air handling units with single shaft requirements.

Mfd. Cap. (370 Volts)	F.L. Amps	Volts	HP	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
5	2.8	208/230	1/3	1	EA	99675	3200 / 03386 1/3HP MOTOR	—	—	—



## 3-Speed, Direct-Drive, Fan and Blower Motors Permanent Split Capacitor, 5.0" Diameter, Open



- 3-Speed: 1050 rpm
- Sleeve bearing has all angle thrust system
- Designed for use with 370V capacitors
- 24" line leads unless otherwise noted
- Automatic reset thermal overload protector

### Capacitor Not Included

Mfd. Cap. (370 Volts)	F.L. Amps	HP	Volts	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
7.5	2.8	1/4	115	1	EA	99502	1390 1/4 HP MOTOR	—	—	—
7.5	1.5	1/4	208/230	1	EA	99504	1391 1/4 HP MOTOR	—	—	—



### 3-Speed, Direct Drive, Fan and Blower Motors Permanent Split Capacitor, 5" Diameter, Open, Single Shaft



**Application**

Designed for continuous air-over applications, such as direct drive residential, commercial, and industrial air conditioners, fans, or blowers.

**Features**

- 3 Speed: 1075, 925, 775 rpm.
- Electrically reversible.
- Single phase.
- Sleeve bearings.
- Automatic thermal overload protection.
- Set or reversible rotation.
- Designed for use with 370 volt capacitor (not furnished).
- 4" or 6" shaft length.
- 60/50 Hertz.

**Capacitor Not Included**

Mfd. Cap. (370 Volts)	F.L. Amps	Volts	HP	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
15	5.8	115	1/3	1	EA	99529	8955 1/3 HP 3 SPD 115 VOLT MOTOR 3.8 AMPS	—	—	—



### 3-Speed, Direct Drive, Fan and Blower Motor Permanent Split Capacitor, 5-1/2" Torsion Mounting



- 3-Speed
- Class B insulation
- 5.6" diameter
- Reversible
- Sleeve bearings

- Continuous duty, air over
- 24" leads
- Thermal overload protected
- PSC motors designed for 370V capacitors

**Capacitor Not Included**

Mfd. Cap. (370 Volts)	F.L. Amps	Volts	HP	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
5	2.5	115	1/6	1	EA	99713	3782 1/6 HP MOTOR	—	—	—
7.5	3.7	115	1/4	1	EA	99714	3783 1/4 HP 115 V REV BLOWER MOTOR	—	—	—
7.5	5.0	115	1/3	1	EA	99499	3785 1/3HP 115 VOLT - 1075RPM 3 SPEED DD FAN / BLOWER MOTOR	—	—	—
5	2.4	208/230	1/3	1	EA	99498	3786 1/3HP 208-230V 1075RPM 3 SPEED FLEX MOUNT DD MOTOR	—	—	—
10	7.5	115	1/2	1	EA	99497	3787 1/2HP 115V 1075RPM 3 SPEED FLEX MOUNT DD MOTOR	—	—	—
7.5	3.5	208/230	1/2	1	EA	99719	3788 1/2 HP FLEX MOUNT DIRECT DRIVE FAN & BLOWER MOTOR	—	—	—



### 3-Speed, Direct Drive, Fan and Blower Motors Permanent Split Capacitor, 5-1/2" Diameter, Open, Double Shaft

- 3-Speed: 1075/925/775 rpm or 1625/1475/1325 rpm.
- Continuous air over.
- All angle sleeve bearings.
- 14" numbered leads.
- Automatic thermal overload protection.
- Designed for 370 volt capacitor (not included).
- Long 1/2" diameter double shafts with full flats.

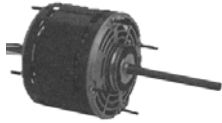
- Mountings holes in shell for capacitor bracket.
- Extended through bolts.
- 2-1/2" bonded cushion rings with 2-1/2" adapter rings included.
- 60/50 Hertz.

**Applications**

Designed for continuous air over applications, such as room air conditioners, unit coolers, and other air moving applications with double shaft requirements.

**Capacitor Not Included**

Mfd. Cap. (370 Volts)	F.L. Amps	RPM	Volts	HP	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
5	2.5	1075	208/230	1/3	1	EA	99797	1213 1/3HP MOTOR	—	—	—



### 3-Speed, Direct-Drive, Fan and Blower Motors Permanent Split Capacitor, 5.6" Diameter, Open

- 3-Speed: 1075 rpm.
- Stud extensions on popular models.
- Designed for 370 volt capacitors (not furnished).
- Class A insulation.
- 24" motor leads.
- Continuous duty, air over.
- 1/2" shaft.
- Sleeve bearing motors with all angle thrust system.
- Automatic thermal overload protector.
- Connection and capacitor information furnished in the nameplate date.
- 2.5" diameter hub rings included.
- Reversible.

#### Capacitor Not Included

Mfd. Cap. (370 Volts)	F.L. Amps	HP	Volts	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
7.5	3.9	1/4	115	1	EA	99509	1863 1/4 HP MOTOR	—	—	—
7.5	5.2	1/3	115	1	EA	99510	1864 1/3 HP MOTOR	—	—	—
10	8.9	1/2	115	1	EA	99511	1865 1/2 HP MOTOR	—	—	—
15	9.1	3/4	115	1	EA	99514	8904 3/4 HP MOTOR	—	—	—
7.5	1.8	1/4	208/230	1	EA	99518	1971 1/4 HP MOTOR	—	—	—
7.5	2.4	1/3	208/230	1	EA	99519	1972 1/3 HP MOTOR	—	—	—
10	4.6	1/2	208/230	1	EA	99520	1973 1/2 HP MOTOR	—	—	—
15	4.6	3/4	208/230	1	EA	99524	8905 3/4 HP MOTOR	—	—	—
20	12.1	1	115	1	EA	99525	8906 1 HP US MOTOR	—	—	—
20	5.2	1	208/230	1	EA	99549	8907 1HP MOTOR	—	—	—



## 4-Speed, Multi-Horsepower, Direct-Drive, Blower Motor

### 5.6" Diameter, Open



- 5460 and 5461: Extended mounting studs, res. rings, reversible, and Rheem mounting holes.
- 5470 and 5471: Extended mounting studs, res. rings, Rheem mounting holes, ball bearings, and reversible.

#### 5460 and 5461 Specifications

Motor to Replace	Speeds to Use* (Color/Approx. RPM)		370V Capacitor		5460 115V FLA	5461 208-230V FLA
	Cooling	Heating	5460	5461		
1/2 HP	High (Black/1100)	Med-Hi (Blue/1050) or Med-Low (Yellow/825)	12.5 mfd	10 mfd	7.3	3.6
1/3 HP	High (Black/1120)	Med-Hi (Blue/1090) or Med-Low (Yellow/1030)	7.5 mfd	5 mfd	6.9	3.5
1/4 HP	Med-Hi (Blue/1125)	Med-Low (Yellow/1090) or Low (Red/1010)	7.5 mfd	5 mfd	5.5	2.8
1/5 HP	Med-Low (Yellow/1110)	Low (Red/1060)	7.5 mfd	5 mfd	3.6	1.9
1/6 HP	Low (Red/1085)	Low (Red/1085)	7.5 mfd	5 mfd	2.8	1.3

#### 5470 and 5471 Specifications

Motor to Replace	Speeds to Use* (Color/Approx. RPM)		370V Capacitor	5470 115V FLA	5471 208-230V FLA
	Cooling	Heating			
3/4 HP	High (Black/1100)	Med-Hi (Blue/1080) or Med-Low (Yellow/1010)	20 mfd	8.1	3.8
1/2 HP	High (Black/1130)	Med-Low (Yellow/1090) or Low (Red/1035)	10 mfd	6.6	3.7
1/3 HP	Med-Hi (Blue/1150)	Med-Low (Yellow/1130) or Low (Red/1100)	10 mfd	4.6	2.5
1/4 HP	Med-Low (Yellow/1150)	Low (Red/1130)	10 mfd	3.8	1.8
1/5 HP	Low (Red/1140)	Low (Red/1140)	10 mfd	3.1	1.7

\*RPM data from cold motor at nominal horsepower. Actual load will determine effective rpm.

#### Capacitor Not Included

F.L. Amps	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
3.6	1	EA	99537	5461 MULTI 1/6 THROUGH 1/2 HP MOTOR 1075RPM 208-230V	—	—	—
7.3	1	EA	99540	5460 MULTI 1/6 THROUGH 1/2 HP MOTOR 1075 RPM 115V	—	—	—
3.8	1	EA	99561	5471 MULTI 1/5 THROUGH 3/4 HP MOTOR 1075RPM 208-230V	—	—	—
8.1	1	EA	99563	5470 MULTI 1/5 HP THRU 3/4 HP MOTOR 1075 RPM 115V	—	—	—



## 5-Speed, Direct-Drive, Blower Motor

### Electronically Controlled



- 5.6" Diameter
- 5-speed: 1075 rpm
- No capacitor needed
- Reversible rotation
- Electronically protected motor

- Ball bearing
- Continuous duty, air over
- 36" leads
- Shaft dimension: 1/2" x 4"



Motor Length (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
5.75	1	EA	99640	5520ET 1/4-1/3HP 115V ECOTECH MOTOR	—	—	—
5.75	1	EA	99663	5522ET 1/5-1/3HP 115/230V ECOTECH MOTOR	—	—	—
5.75	1	EA	99641	5530ET 1/2HP 115V ECOTECH MOTOR	—	—	—
5.75	1	EA	99686	5532ET 1/4-1/2HP 115/230V ECOTECH MOTOR	—	—	—
6.75	1	EA	99642	5540ET 3/4HP 115V ECOTECH MOTOR	—	—	—
6.75	1	EA	99666	5542ET 1/3-3/4HP 115/230V ECOTECH MOTOR	—	—	—



### Direct Drive Fan Motor 3.3" Diameter, Open Air, Totally Enclosed



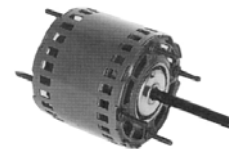
- Four 8-32 x 3/4" stud extensions at each end
- Sleeve bearings have all angle thrust system
- Automatic reset thermal overload protector
- 12" leads
- Automatic reset thermal overload protector
- 12" leads

**Capacitor Not Included**

RPM	Volts	F.L. Amps	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1550	115	.80	1	EA	99701	9621 1/70HP MOTOR	—	—	—
1550	115	1.10	1	EA	99703	9625 1/40HP MOTOR	—	—	—



### Direct Drive Fan Motor Single and Double Shaft, Open, Air Over, 5.0" Diameter



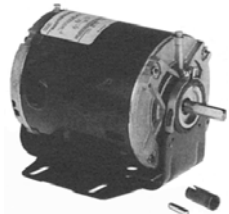
- Sleeve bearings have all angle thrust system
- Designed for use with 370V capacitors
- Continuous duty, air over
- 24" line leads unless otherwise noted
- Automatic reset thermal overload protector

**Capacitor Not Included**

RPM	Volts	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1050	115	1	EA	99705	1127 1/6HP MOTOR	—	—	—



### 1-Speed, Belt Drive, Fan and Blower Motors Split Phase, 5-1/2" Diameter, Dripproof



**Features**

- 1 speed: 1725 rpm.
- Electrically reversible.
- Automatic reset overload protection.
- 40° C rise.
- Resilient base mounted.
- 60 Hertz.
- General purpose motors have 1/2" diameter shaft 1-1/2" long with full flat.

- Dual voltage motors have 1/2" diameter shaft 2-1/4" long with full flat and 5/8" adapter (except 4680).

**Applications**

Designed for applications having moderate starting loads, like commercial fans and blowers, direct and belt drive air handlers, evaporative coolers, and exhaust fans.

**General Purpose (Sleeve Bearings)**

F.L. Amps	Volts	Service Factor	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
8.9/4.5	115/230	1.25	1	EA	99532	4114 / 04684 1/2 HP MOTOR	—	—	—

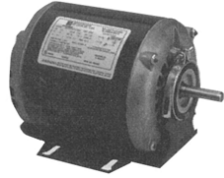
**Dual Voltage (Ball Bearings)**

5.0/2.5	115/230	1.35	1	EA	99530	3618 / 4680 1/4 HP MOTOR	—	—	—
6.2/3.1	115/230	1.35	1	EA	99531	8438 / 04682 1/3 HP MOTOR	—	—	—



## 1-Speed, Belt Drive, Fan and Blower Motors

### Split Phase, Open, Dripproof, Single Shaft



- 1.35 service factor.
- NEMA 48 frame.
- Automatic thermal overload protection.
- Max. ambient 40
- Resilient base mounted.
- All angle sleeve bearings.
- 1/2" diameter shaft 1-1/2" long with full flat.
- Electrically reversible.

F.L. Amps	RPM	Volts	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
5.3	1725	115	1	EA	99515	8000 1/4 HP MOTOR	—	—	—
6.7	1725	115	1	EA	99516	8100 1/3 HP MOTOR	—	—	—
8.7	1725	115	1	EA	99517	8200 1/2 HP MOTOR	—	—	—



## 2-Speed, Multi-horsepower Condenser Fan Motor

### 5.6" Diameter, Totally Enclosed



#### Applications

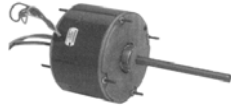
This condenser fan motor runs in all positions and can be used to replace most 1/3, 1/4, 1/5 and 1/6 HP condenser fan motors. The motor can be wired for 3 or 4 wire capacitor hook ups and is quickly reversible by switching the yellow and blue leads.

#### Features

- Automatic thermal overload
- Ball bearings
- 36" leads
- CCWLE
- Reversible
- Designed for 370 Volt capacitor (not furnished)
- 4 holes in shell for mounting
- Shaft up or down

#### Capacitor Not Included

Mfd. Cap. (370 Volts) 208/230	Volts	F.L. Amps	RPM	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
7.5/5	208/230	2.6	1075	1	EA	99541	5462 1/6 TO 1/3 HP MOTOR	—	—	—
10/7.5	208/230	1.9	825	1	EA	99554	5464 1/6 TO 1/3 HP MOTOR	—	—	—
12.5/10	208/230	1.9	1075	1	EA	99560	5465 1/5 TO 1/2 HP MOTOR	—	—	—



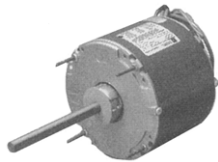
## 1-Speed Condenser Fan Motors

### Permanent Split Capacitor, 5.6" Diameter, Totally Enclosed

- 60° C ambient design
- All angle thrust system
- Designed for 370 volt capacitors (not furnished)
- Extended studs
- 30" leads
- Hubless lead end
- Drain holes both ends
- Reversible
- Automatic thermal overload protector
- Continuous air over
- Shaft up or down motor
- 1/2" shaft, 5" length (except 1873 and 1875, shaft is 6" long)

**Capacitor Not Included**

Mfd. Cap. (370 Volts)	F.L. Amps	Volts	RPM	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
7.5	2.4	208/230	1075	1	EA	99522	8670 / 03229 1/3 HP MOTOR	—	—	—
10.0	3.8	208/230	1075	1	EA	99523	8671 / 03230 1/2 HP MOTOR	—	—	—
5	1.7	208/230	1075	1	EA	99654	1860 1/4HP MOTOR	—	—	—
7.5	2.1	208/230	1075	1	EA	99655	1861 1/3HP MOTOR	—	—	—
10.0	2.9	208/230	1075	1	EA	99656	1862 1/2HP MOTOR	—	—	—
10.0	4.5	208/230	1075	1	EA	99662	1868 3/4HP MOTOR	—	—	—
5	1.0	208/230	825	1	EA	99670	1873 1/6 HP MOTOR	—	—	—
7.5	2.4	208/230	825	1	EA	99671	1875 1/3HP MOTOR	—	—	—



## 1-Speed Condenser Fan Motor

### Permanent Split Capacitor, 5.6" Diameter, Dripproof, Open

- 60 Hertz.
- Capacitor mounting holes in frame band.
- Shaft up or horizontal
- Continuous duty, air over.
- Water slinger.
- Designed for 370 volt capacitors (not furnished).
- Automatic thermal overload protector.
- Sleeve bearings have all angle thrust system.
- Reversible.
- Class B insulation.
- Extended studs are 8-32.
- 30" leads.
- 1/2" shaft with 5" shaft length, double flats on shaft.
- Shaft endshield and frame band are enclosed, lead endshield is ventilated.

**Capacitor Not Included**

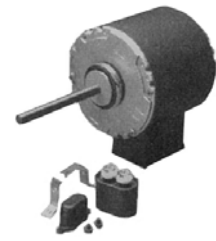
Mfd. Cap. (370 Volts)	F.L. Amps	Volts	RPM	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	1.9	230	1075	1	EA	99585	8302 / 03028 1/4 HP MOTOR	—
5	1.7	208/230	1075	1	EA	99657	3851 1/4HP MOTOR	—
5	2.2	208/230	1075	1	EA	99658	6880 1/3HP MOTOR	—
7.5	3.1	208/230	1075	1	EA	99659	3852 1/2HP MOTOR	—





### 1- Speed Commercial Condenser Fan Motor Permanent Split Capacitor, 5.6" Diameter, Totally Enclosed

- Includes internal conduit box.
- Automatic thermal overload protector.
- Reversible shaft rotation.
- Double-sealed ball bearing.
- Continuous duty, air over.
- 40° C ambient.
- Class B insulation.
- 1/2" shaft.



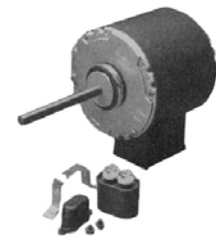
Capacitor Not Included

Mfd. Cap. (370 Volts)	F.L. Amps	Volts	RPM	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	3.1/1.6	208-230/460	1075	1	EA	99696	2201 1/2HP MOTOR	—
12.5	4.6/2.3	208-230/460	1075	1	EA	99697	2202 3/4HP MOTOR	—



### 1- Speed Commercial Condenser Fan Motor Permanent Split Capacitor, 6.3" Diameter, Totally Enclosed

- Includes internal conduit box.
- Automatic thermal overload protector.
- Reversible shaft rotation.
- Double-sealed ball bearing.
- Continuous duty, air over.
- 40° C ambient.
- Class B insulation.
- 5/8" shaft.



Capacitor Not Included

Mfd. Cap. (370 Volts)	F.L. Amps	Volts	RPM	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
17.5	5.2/2.6	208-230/460	1075	1	EA	99698	2203 1HP MOTOR	—



### 3-Speed, Double Shaft Fan and Blower Open Dripproof, Air Over, 5.6" Diameter

- Automatic reset thermal overload protector
- CCW rotation lead end
- Sleeve bearings have all angle thrust system
- Continuous duty, air over
- Connection and capacitor information furnished on nameplate
- When supplied, capacitor and mounting hardware are supplied detached
- Designed for use with 370V capacitors
- Mounting holes in shell for mounting capacitor
- Hub rings are 2-1/4" diameter, furnished detached, with extra metal outer rings for adapting to 2-1/2" diameter
- 20" leads
- Class B insulation



Model	HP	RPM	Volts	F.L. Amps	Mfd. Cap. (370 Volts)	Capacitor and Mounting Kit
1824	1/2	1075	230	4.5	5.0	Included
1887	1/3	1625	230	2.2	5.0	Included
3134	1/4	1075	230	1.9	5.0	Not Included

Capacitor Not Included

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	EA	99604	1824 / 03692 1/2 HP MOTOR	—	—	—
1	EA	99603	1887 1/3 HP 1625 RPM 3-SPD, OAO DBL SHAFT MOTOR	—	—	—
1	EA	99599	3134 / 03672 1/4 HP MOTOR	—	—	—



## 1-Speed, Oil Burner Motor Split Phase, 5-1/2" Diameter, Totally Enclosed



- 40° C ambient
- 20" leads
- 1.0 service factor
- Manual reset thermal overload protector
- Electronically protected motor
- 48N flange is ventilated
- Class A insulation
- Sleeve bearings all have angle thrust system

F.L. Amps	Frame	RPM	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
2.4	48N	1725	1	EA	99536	3196 / 04782 1/8 HP MOTOR	—	—	—
2.3	48M	3450	1	EA	99506	5866 1/7HP 115V 3450 RPM NON-REVERSIBLE SPLIT PHASE OIL BURNER MOTOR	—	—	—
3.1	48N	1725	1	EA	99535	3252 1/6 HP MOTOR	—	—	—



## General Purpose Motors Single Phase, Open Dripproof Capacitor Start, Resilient Base



- Class A or B insulation
- Reversible Rotation
- 40 degree ambient, 60 Hz
- Continuous duty

RPM	Frame	Voltage	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1800	56	115/230	1	EA	99507	3753 3/4HP GENERAL PURPOSE MOTOR CAPACITOR START 115/230	—	—	—
1800	56	115/230	1	EA	99508	3754 1HP GENERAL PURPOSE MOTOR CAPACITOR START 115/230	—	—	—



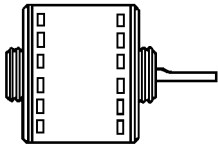
## General Purpose Energy Efficient Motors 3 Phase, Open, Dripproof



- Class F insulation, Class B rise at service factor (140 frame and larger)
- Rolled steel frame 56-320, cast iron frame 360-440
- Aluminum end shields 56-250, cast iron end shields 280-440
- Full HP at 50 Hz
- Regreasable bearings 180 frames and up

RPM	Frame	Voltage 3 Phase	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1800	143T	208/230/460	1	EA	99631	D1E2D 1HP GENERAL PURPOSE US MOTOR	—
1800	182T	208/230/460	1	EA	99634	D3E2D 3HP GENERAL PURPOSE US MOTOR	—
1800	184T	208/230/460	1	EA	99635	D5E2D 5HP GENERAL PURPOSE US MOTOR	—
1800	213T	208/230/460	1	EA	99636	D7E2D 7 1/2 HP GENERAL PURPOSE US MOTOR	—
1800	254T	208/230/460	1	EA	99638	D15E2D 15 HP GENERAL PURPOSE US MOTOR	—
1800	256T	208/230/460	1	EA	99639	D20E2D 20 HP GENERAL PURPOSE US MOTOR	—
1800	284T	208/230/460	1	EA	99629	D25E2D 25 HP GENERAL PURPOSE US MOTOR	—

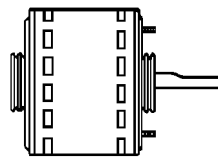
## REZNOR® 1-Speed, Direct Drive, Unit Heater Motors Single Shaft, 5.7" Diameter, 48 Frame



- CCW (viewed opposite shaft end).
- 1/2" shaft.
- Continuous air over sleeve bearings.
- Single phase.
- 4 bolt mounting on 5.15 bolt centers.
- Used on Reznor and other unit heaters.
- 115 Volt.
- 60 Hertz.

Mfd. Cap. (370 Volts)	F.L. Amps	Shaft Length	RPM	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	4.0	4.50	850	1	EA	62472	RZ095545 1/7 HP OPEN FAN MOTOR	—
None	6.5	4.50	850	1	EA	62478	RZ156275 1/2 HP FAN MOTOR	—
4	3.3	1.75	1140	1	EA	62594	RZ016072 1/6 HP MOTOR	—
5	5.5	2.63	1140	1	EA	62619	RZ064679 1/4 HP MOTOR	—

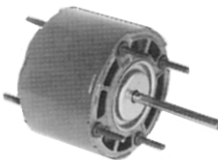
## REZNOR® 1-Speed, Direct Drive, Unit Heater Motors Single Shaft, 5" Diameter, NEMA 42



- Shaded pole and permanent split capacitor.
- CCW (viewed opposite shaft end).
- 1/2" shaft.
- Single phase.
- Continuous air over sleeve bearings.
- 3 bolt mounting on 120° apart.
- Used on Reznor and other unit heaters.
- 115 volt.
- 60 Hertz.

Mfd. Cap. (370 Volts)	F.L. Amps	Shaft Length	RPM	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	2.5	4.50	900	1	EA	62473	RZ095546 1/6 HP OPEN FAN MOTOR	—
S.P.	3.9	4.00	1050	1	EA	62476	RZ095547 1/20 HP FAN MOTOR	—
S.P.	2.7	4.00	1000	1	EA	62477	RZ095548 1/30 HP FAN MOTOR	—
S.P.	1.6	4.00	1050	1	EA	62494	RZ045331 1/40 HP MOTOR	—
S.P.	2.55	4.00	1050	1	EA	62592	RZ009892 1/20 HP MOTOR	—
S.P.	3.0	4.00	1050	1	EA	62616	RZ055680 1/20 HP MOTOR	—
5	2.5	2.72	1140	1	EA	62617	RZ055681 1/8 HP MOTOR	—
5	4.6	2.75	1130	1	EA	62618	RZ088781 1/6 HP MOTOR	—

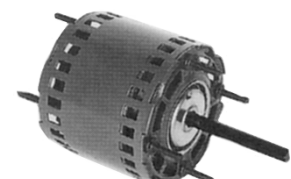
## Specialty Replacement Motors



9632



9624



10889

### Open Ventilated Fan and Blower Duty Shaded pole and PSC, 3.3" Diameter, Continuous Duty, Air Over

Size	Rotation	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
115	1550	1	EA	99720	9632 1/20HP 115V 3.3IN CCW SUPER FIT FAN/BLWR MOTOR	—

### Totally Enclosed Fan and Blower Duty Single Shaft, 3.3" Diameter, Shaded Pole and PSC, 60 Hz., Continuous Duty, Air Over

Size	Rotation	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
115	1550	1	EA	99702	9624 1/50 HP 115V MOTOR	—	—	—

### Fan Coil Units Shaded Pole, 5" Diameter, 60 Hz., Thermally Protected, Continuous Duty, Air Over

Size	Rotation	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
115	1050	1	EA	99723	10889 1/10HP 115V 3.5A 1050RPM 5-SPEED MOTOR	—

\* Rotation is viewed from shaft end.



## Evaporator/Condenser Double Duty Motors



- Special wide temperature range lubrication system
- High capacity oil reservoir spiral grooved shaft for efficient distribution of oil to the bearing surface
- Mounting hardware and water shield included
- Tapped and drilled mounting holes
- 1550 RPM standard
- Cast iron
- Unit bearing
- 15" leads

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	99645	00621 6-12 WATTS 115VOLT CW EVAP/CONDENSER-UNITRONIX MOTOR	—
1	EA	99646	00624 14-16 WATTS 115VOLT CW EVAP/CONDENSER-UNITRONIX MOTOR	—



## OEM Blower Motor Cross Reference

OEM	OEM Model No.	Fasco Model No.
Alltemp (Rotom)	7062-4832, R7-RFB350, 1011350	A173
Amana	7062-3151, 7062-3703, 7062-4774, D98686-7, D9868614	A158
Coleman	7021-6759	A088
Dornback	7021-5478	A088
Goodman	B185900, 7021-6804, JA1M106, JA1M137, 7021-10262, 4MH15	A079
Inter City Products	7002-2792, 7002-2633, 1010975, 1010975P	A172
Inter City Products	7021-9335, 7021-8735, 7021-9499, 7021-8736, 7021-7700, 7021-9477, 7021-9918, 7021-10275, 1708-607, 1708-607P, 1010324, 1010238P, R7-RFB134, 4MH28	A134
Inter City Products	7021-10299, 7021-10702, 7021-8918, 7021-9594, 7021-9935, 7021-9936, 1010312, 1010526, 1010928, 1011095, 1011097, 1011409, 1164280, 7021-9362	A170
Inter City Products	7062-4061, 7062-3793, 7062-4703, 1008695, 4MH47, 1009924, 1008695P	A145
Inter City Products	7062-4783, 7062-4705, 7062-4274, 7062-4201, 7062-4549, 1010491, 1010527P, 1011096, 1011410, 1011412	A171
Inter City Products	7062-4785	A173
Inter City Products	HQ1050144, 7021-10287, 7062-3793, 7062-4703, 4MH40, 1008695, 4MH47	A151
Lennox	7002-2975, 313L5501	A200
Nordyne	7002-3158, 6219500	A126
Nordyne	7021-9132, 7021-10171, 7021-10159, 7021-9661, 6212850, 6217000, 4MH26	A131
Nordyne	7021-11227, 6219490	A122
Nordyne	7062-4159, 7062-4639, 7062-4538, 7062-4698, 6216130, FB-RFB130, 4MH43	A130
PMI/Vulcan Hart	7062-2513, 70-22165-81, 5C089, 7062-4534, FB-RFB142, 7062-4702, 4MH46	A142
Rheem/Ruud	70-21496-01, 7021-5239, 7021-5715, JA1M102, 7021-10268, 4MH21, 74-70-21496-01-06	A090
Rheem/Ruud	7021-7577, AP10983-4, R7-RFB139, 4MH31	A139
Rheem/Ruud	7062-1881, 7062-2615	A142
Rheem/Ruud	7062-3861, 70-24033-01-13, RF-RFB136, 4MH44, 28686, 70-24033-01	A136
Rheem/Ruud	74-70-21496-03-01, 74-70-21504-03-04, 7021-5615, 7021-10262, 4MH15	A079
Trane	7021-7833, 7021-8928, 7021-10286, C661452P01, X38080029010, 4MH39	A150
Trane	7062-3956, 7021-4004, 7062-5247, 7062-3616, 7062-5575, D330757P04, D342094P04, 21D340365P03, D330757P035, X38040313037, FB-RFB130, 4MH43	A130
Trane	B1W24, WG94X167	A079
Williamson	100,000 btu furnaces 7021-6999, 7021-7042, 7021-10269, 4MH22	A118
York	7021-8629, 7021-7105, 2940-391, 2940-391-P, 7021-9908, R7-RFB391, 7021-10267, 4MH20	A088
York	7021-11577, 7021-11577S, 7021-11830, 024-34558-000, 17503	A225
York	7058-0266, 7058-0266S, 17500, 024-34490-000	A226
York	7062-2442, 7062-3484, 024-25057-000, 7062-3342, 7062-4236, 7062-4536, 7062-4701, 024-25007-000, 024-25007-700, 024-25057-000, RFB-137, 4MH45	A137
York	7062-5048, 7062-4743, 024-27654-000	A224



# OEM Replacement Blower Motors



A079



A090



A126



A139



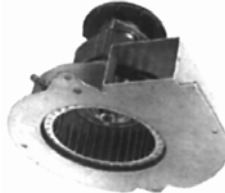
A150



A151



A172



A200



A225



A226

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	93387	A079 115VOLT 1 SPEED 1.1AMPS FASCO BLOWER MOTOR B1859000	—
1	EA	93388	A088 115VOLT 1 SPEED 1.3AMPS FASCO BLOWER MOTOR	—
1	EA	93390	A118 115VOLT 1 SPEED 1.8AMPS FASCO BLOWER MOTOR	—
1	EA	93389	A090 115VOLT 1 SPEED 1.1AMPS FASCO BLOWER MOTOR	—
1	EA	93391	A122 115VOLT 1 SPEED 1.15AMPS FASCO BLOWER MOTOR	—
1	EA	93392	A126 115VOLT 1 SPEED 1.8AMPS FASCO BLOWER MOTOR	—
1	EA	93393	A130 115VOLT 1 SPEED 0.7AMPS FASCO BLOWER MOTOR	—
1	EA	93394	A131 115VOLT 1 SPEED 1.1AMPS FASCO BLOWER MOTOR	—
1	EA	93395	A134 115VOLT 1 SPEED 1.5AMPS FASCO BLOWER MOTOR	—
1	EA	93396	A136 115VOLT 1 SPEED .75AMPS FASCO BLOWER MOTOR	—
1	EA	93397	A137 115VOLT 1 SPEED 0.7AMPS FASCO BLOWER MOTOR	—
1	EA	93398	A139 115VOLT 1 SPEED .95AMPS FASCO BLOWER MOTOR	—
1	EA	93399	A142 115VOLT 1 SPEED 0.7AMPS FASCO BLOWER MOTOR	—
1	EA	93400	A145 115VOLT 1 SPEED 0.7AMPS FASCO BLOWER MOTOR	—
1	EA	93401	A150 208/230 VOLT 1 SPEED 0.5AMPS FASCO BLOWER MOTOR	—
1	EA	93402	A151 230VOLT 1 SPEED 0.3AMPS FASCO BLOWER MOTOR	—
1	EA	93403	A158 115VOLT 1 SPEED 4.5AMPS FASCO BLOWER MOTOR	—
1	EA	93404	A170 115VOLT 1 SPEED 2.3AMPS FASCO BLOWER MOTOR	—
1	EA	93405	A171 115VOLT 1 SPEED 0.7AMPS FASCO BLOWER MOTOR	—
1	EA	93406	A172 115VOLT 1 SPEED 1.6AMPS FASCO BLOWER MOTOR	—
1	EA	93407	A173 115VOLT 1 SPEED 0.8AMPS FASCO BLOWER MOTOR	—
1	EA	93408	A200 115VOLT 1 SPEED 1.95AMPS FASCO BLOWER MOTOR	—
1	EA	93409	A224 115VOLT 2 SPEED 0.8AMPS FASCO BLOWER MOTOR	—
1	EA	93410	A225 115VOLT 1 SPEED 2.25AMPS FASCO BLOWER MOTOR	—
1	EA	93411	A226 115VOLT 1 SPEED 1.7AMPS FASCO BLOWER MOTOR	—

## Motor Accessories

For Single Shaft PSC and KCP Direct Drive Motors



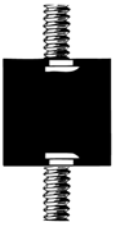
08102



17 For 5.6" diameter motor and 10" blower mount diameter.



26



07804

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
2	PKG	99480	9 2-1/4" DIAMETER STEEL BANDED RUBBER HUB RING KIT - 1 PAIR	—
1	PKG	99481	10 2-1/2" DIAMETER STEEL BANDED RUBBER HUB RING KIT - 1 PAIR	—
1	PKG	99482	15 2-1/2" DIAMETER RUBBER HUB RING KIT - 1 PAIR	—
1	EA	99783	17 BLOWER MOUNTING KIT	—
1	EA	99799	25 BELLY BAND MOUNT LUG MOTOR APAPTER	—
1	EA	99784	26 PLASTIC MOTOR RAIN SHIELD	—
1	EA	99780	27 HUB LENGTH ADAPTER SET	—
4	PKG	99811	07804 IWI RUBBER MOUNT 4/PKG	—
10	EA	99816	08102 BONDED CUSH RING	—
25	EA	94640	93011 ONE HOLE CAP BOOT	—



## SuperLube® Multi-Purpose Aerosol Lubricant

Super Lube is a patented, multi-purpose synthetic lubricant, containing Syncolon® (PTFE) particles held in suspension, that lasts longer and outperforms conventional petroleum-based greases and oils.

Super Lube is non-toxic and safe on rubber, plastics, paints, and other materials. It prevents rust and corrosion and works effectively in temperatures from -65° to +650°.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	64274	93212 (20029) 11 OZ AEROSOL SUPER LUBE	—



## Zoom Spout Oiler



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	50756	93240 ZOOM SPOUT OILER	—



## Torsion Ring Set Kit



Direct-drive torsion-type, belly band blower mounting ring set. Each set (one set per kit) includes motor support ring with welded ears and mounting screws. Mounting ears have dual mounting holes to fit either blower or motor diameter.

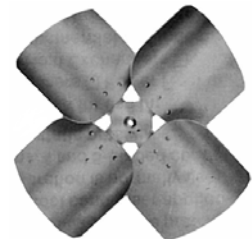
These accessories provide maximum flexibility when applying standard replacement motors to various applications.

Motor Diameter (In.)	Blower Mount Diameter (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4.8	9 or 10	1	EA	99512	43 TORSION RING SET KIT	—
5.6	9 or 10	10	EA	99513	44 TORSION RING SET KIT	—



## Fan Blades and Adaptor Hubs

Rotation indicated in item description is viewed facing air discharge. Three screws and washers supplied with each hub.



### Fan Blades, 27° Pitch

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	95800	60717701 10 IN FAN BLADE CW	—
4	EA	95802	60718301 12IN FAN BLADE CW	—
4	EA	95804	60718901 14IN FAN BLADE CW	—
4	EA	95805	60719001 14 IN FAN BLADE CCW	—
4	EA	95806	60719501 16 IN FAN BLADE CW	—
4	EA	95807	60719601 16IN FAN BLADE CCW	—
2	EA	95808	60558101 18 IN FAN BLADE CW	—
2	EA	95809	60558201 18 IN FAN BLADE CCW	—
2	EA	95810	60558701 20 IN FAN BLADE CW	—
2	EA	95811	60558801 20 IN FAN BLADE CCW	—
2	EA	95812	60559701 24 IN FAN BLADE CW	—
2	EA	95813	60559801 24 IN FAN BLADE CCW	—
2	EA	95843	60559301 22IN FAN BLADE CW	—
2	EA	95844	60559401 22 IN FAN BLADE CCW	—

### Adaptor Hubs

12	EA	95856	60765802 5/16 IN HUB	—
12	EA	95857	60765803 3/8 IN HUB	—
12	EA	95858	60765804 1/2 IN HUB	—
12	EA	95859	60765805 5/8 IN HUB	—



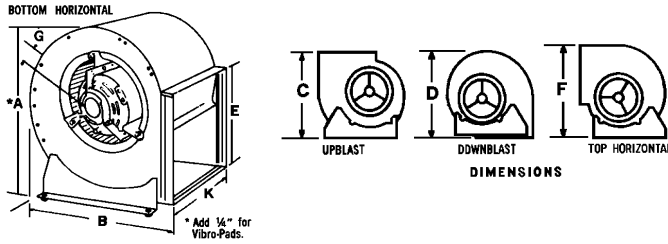
## Single Piece Aluminum Fan Blades

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	93867	07593 10" CW 5/16" BORE 5 WING BLADE W/HUB ON INTAKE	—
1	EA	93868	07922 12" CCW 5/16" BORE 5 WING BLADE W/HUB ON DISCHARGE	—
1	EA	93869	95731 7" CW 30" PITCH HUBLES W/UNIT BEARING MOUNT PIERCING	—



## Direct Drive Blowers

Less Motors



Complete direct drive blower without motor consists of blower of heavy gauge steel with a baked enamel finish, adjustable direct drive motor mounting bracket, universal housing supports, and Vibro-pads.

### Dimensions

Part No.	LAU Model	K	E	A	B	C	D	F	G*
38-2513-01	DD9-7R Less Motor	9-3/16	10-1/4	17	14-15/16	15-1/16	14-15/16	14-9/16	1-1/4
38-2513-02	DD9-9R Less Motor	11-7/8	10-1/4	17	14-15/16	15-1/16	14-15/16	15-9/16	7/8
38-2513-03	DD10-8R Less Motor	10-1/2	11-3/8	18-7/8	16-1/2	16-11/16	16-1/2	17-1/2	1-1/8
38-2513-04	DD10-10R Less Motor	13-1/16	11-3/8	18-7/8	16-1/2	16-11/16	16-1/2	17-1/2	5/8
024840-28	DD12-9A Less Motor	12-1/4	13-7/16	21-7/8	19-3/8	19-1/2	19-3/8	20-1/2	1-5/16

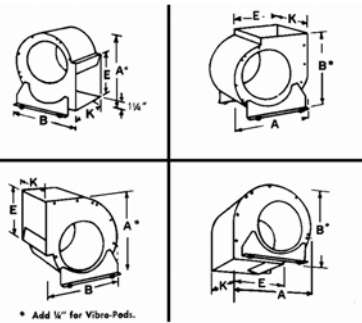
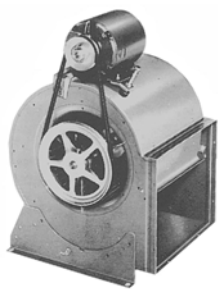
\* These dimensions are maximum. They will vary slightly with motor size.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	64110	38251301M DD9-7R DD9-7R BLOWER L/MTR	—
1	EA	64111	38251302M DD9-9R DD9-9R BLOWER L/MTR	—
1	EA	64112	38251303M DD10-8R DD10-8R BLWR L/MTR	—
1	EA	64113	38251304M DD10-10A DD10-10A BLWR L/MTR	—
1	EA	64114	02484028M DD12-9A BLOWER L/MTR	—



## Heating and Air Conditioning Replacement Blowers

Universal Blowers Less Motors



Universal blower less motor includes motor mount, belt adjustable parts, feet, assembly screws, and mounting grommets. Holes and guide slots make assembly easy. Order motor, pulley, drives, and belt separately.

### Dimensions

Part No.	LAU Model	Specifications	Blower Size (In.)	K	E	A	B	Shaft Size
38-2074-01	A9-9ACE	1200 CFM at 1/4" S.P.	9	11-7/8	10-1/4	15-7/16	14-15/16	3/4
38-2076-01	A10-10ACE	1500 CFM at 1/4" S.P.	10	13-1/6	11-3/8	17-1/4	16-1/2	3/4
38-2434-17	A12-12ACE	2200 CFM at 1/4" S.P.	12	15-3/4	13-7/16	20-7/16	19-5/16	1

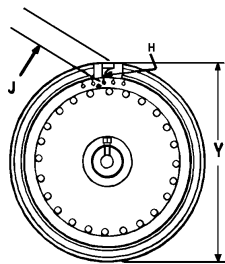
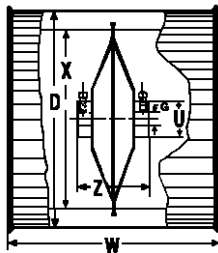
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	64102	38207401M A9-9ACE A9-9ACE LAU BLOWER	—
1	EA	64103	38207601M A10-10ACE A10-10ACE LAU BLOWER	—
1	EA	64104	38243420M A12-12ACE A12-12ACE LAU BLOWER	—





## Belt Drive Blower Wheels

3/4 Bore



- Galvanized, Universal Replacement Preslok® wheels with two hubs for CW or CCW rotation
- Highest quality blower wheel available for heating and air conditioning use
- Each blade is mechanically attached to the center disc by four steel fingers pressed through the hole in the blade for positive locking action
- End rings are of deep section and center disc is airflow shaped with increased hub spread

### Dimensions

Part No.	LAU Model	Bore	Material	Set Screw	D	W	X	Y	U	Z	H	J
008361-12	A10-8A	3/4	Crs. Ptd.	1	10-5/8	8	8-7/8	11-1/8	1-1/4	3.280	48	1
008360-12	A10-10A	3/4	Crs. Ptd.	1	10-5/8	10-5/8	8-7/8	11-1/8	1-1/4	3.280	48	1

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	60738	00836112 10 5/8 D X 8 W BLOWER WHEEL	—
1	EA	60739	00836012 10 5/8 D X 10 5/8 W BLOWER WHEEL	—



## "DD" Preslock® Direct Drive Wheels



Service Hint: If CCW rotation is required, use a CW rotation wheel and mount motor on hub side. Set screw must be converted to Allen Head Screw and then tightened through the blades, using T-handle Allen wrench. (May have to notch blade above set screw to provide access for T-handle Allen wrench.)

Rotation	Diameter	Width	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
CW	9-1/2	9-1/2	1	EA	60699	01333201 9X9 BLOWER WHEEL	—
CW	9-1/2	7-1/8	1	EA	60702	01333602 9X7 BLOWER WHEEL	—
CW	11-1/8	8	1	EA	60740	01332401 10X8 BLOWER WHEEL	—
CW	11-1/8	10-5/8	1	EA	60741	01331602 10X10 BLOWER WHEEL	—



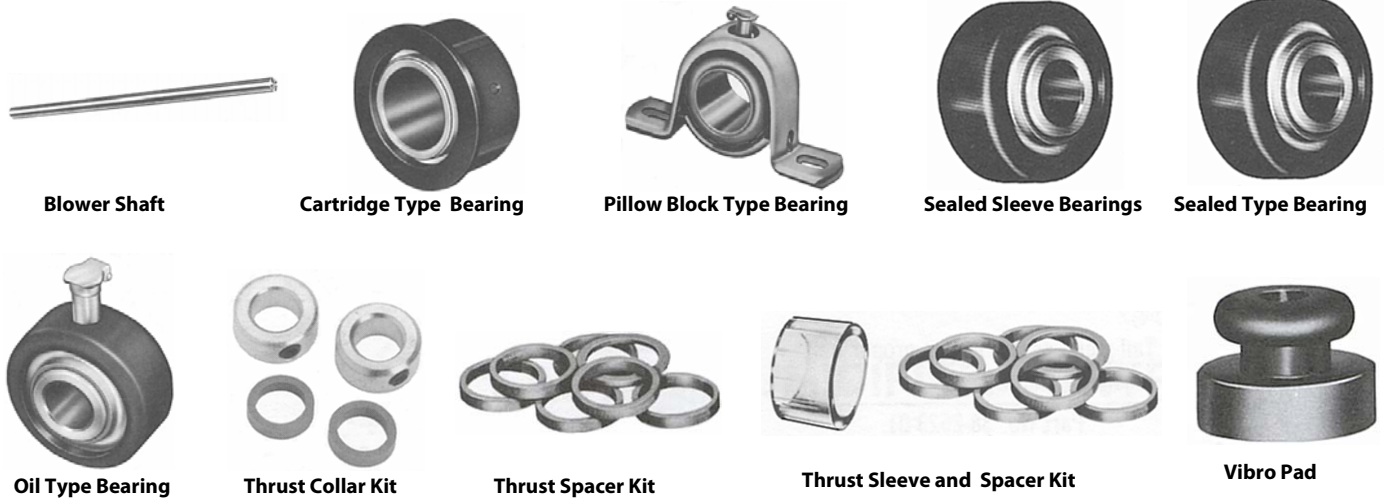
## Blower Wheels



Rotation	Diameter	Width	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
CW	10	6	1	EA	60143	98M74 R02592A004 BLOWER WHEEL	—
CW	12	8	1	EA	60145	16W84 11 X 8 LB-29333BDD BLOWER WHEEL	—
CW	12	9	1	EA	60146	86H46 R02592A013 BLOWER WHEEL	—
CW	10	9	1	EA	60923	47K30 R02592A023 BLOWER WHEEL R02592A023	—



## Replacement Blower Parts



Blower Shaft

Cartridge Type Bearing

Pillow Block Type Bearing

Sealed Sleeve Bearings

Sealed Type Bearing

Oil Type Bearing

Thrust Collar Kit

Thrust Spacer Kit

Thrust Sleeve and Spacer Kit

Vibro Pad

### Shafts

Type	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
Blower	10	EA	64184	38220501 5/8IN X 20IN BLOWER SHAFT	—
Blower	1	EA	64186	38269301 3/4IN X 30/35IN BLOWER SHAFT	—
Blower	10	EA	64187	38209601 3/4IN X 20IN BLOWER SHAFT	—
Blower	10	EA	64188	38209501 1IN X 25IN BLOWER SHAFT	—

### Bearings

Pillow Block	10	SET	64161	38208601 3/4 IN LAU BRG	—
Pillow Block	10	SET	64167	38208701 1 IN LAU BRG	—
Cartridge	10	SET	64162	38209001 1 IN LAU BRG	—
Cartridge	10	SET	64168	38209101 3/4 LAU BRG W/COLLR	—
Pillow Block	10	SET	64203	38220401 5/8 IN LAU BRG	—
Oil	10	SET	64165	38244201 3/4 IN LAU BRG	—
Oil	10	SET	64166	38244202 1 IN LAU BRG	—
Sealed	10	SET	64155	38244301 5/8 IN LAU BRG	—
Sealed	10	SET	64156	38244302 3/4 IN LAU BRG	—
Sealed	10	SET	64157	38244303 1 IN LAU BRG	—
Sealed Ball	10	SET	64210	38258801 3/4 IN LAU BRG	—
Sealed Sleeve	10	SET	64208	38269401 3/4 IN BEARING SEALED	—
Sealed Sleeve	10	SET	64209	38269501 1 IN BEARING SEALED	—

### Thrust Kits

Sleeve and Spacer	10	PKG	64193	38220301 3/4 SLEEVE & SPACER	—
Collar	10	KIT	64195	38220601 3/4 IN LAU COLLAR	—
Collar	10	KIT	64196	38220701 1 IN LAU COLLAR	—
Collar	10	KIT	64199	38243101 5/8 IN LAU COLLAR	—
Spacer	10	PKG	64205	38249102 3/4 IN LAU SPACER	—

### Bracket Kits

Bearing	1	PKG	64160	02917501 3/4 IN LAU BRACKET KIT	—
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### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	99808	02942106 5/8X1/2 BUSHING	—
12	BAG	64194	38220901 LAU VIBRO-PAD	—
6	BAG	64207	38252501 LAU GROMMETS	—

## *Browning* VPS-200AH Set Screw Ball Bearings

- Stock bearings fit air handler housings
- Semi-solid cast iron base
- Anti-rotation rivet



Shaft Dia. (In.)	Bearing No. Insert	Bolt Size (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
5/8	VS-210	3/8	1	EA	59808	VPS-210 AH 5/8 IN. DIAMETER SHAFT SET SCREW BALL BEARINGS	—	—
3/4	VS-212	3/8	1	EA	59809	VPS-212 AH 3/4 IN. DIAMETER SHAFT SET SCREW BALL BEARINGS	—	—
1	VS-216	3/8	1	EA	59812	VPS-216 AH CLRPK 1 IN. SHAFT DIAMETER SET SCREW BALL BEARINGS	—	—
1-3/16	VS-219	1/2	1	EA	59814	VPS-219 AH 1 3/16 IN. DIAMETER SHAFT SET SCREW BALL BEARINGS	—	—

## *Browning* VPB-200AH BOA Concentric Ball Bearings

- Stock bearings fit air handler housings
- Semi-solid cast iron base
- Anti-rotation rivet



Shaft Dia. (In.)	Bearing No. Insert	Bolt Size (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
3/4	VB-212	3/8	1	EA	59830	VPB-212 AH 3/4 IN. DIAMETER SHAFT CONCENTRIC BALL BEARINGS	—	—
1	VB-216	3/8	1	EA	59831	VPB-216 AH 1 IN. DIAMETER SHAFT CONCENTRIC BALL BEARINGS	—	—

## *Browning* SSF2S Stamped Steel Ball Bearings

- Designed to fit into HVAC web-mount supports
- No re-lubrication



Shaft Dia. (In.)	Bearing No. Insert	Bolt Size (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1/2	LS-108	1/4	1	EA	59840	SSF2S-108 1/2" DIAMETER SHAFT SET SCREW / FLANGED BALL BEARINGS	—	—
3/4	LS-112	5/16	1	EA	59842	SSF2S-112 3/4 IN. DIAMETER SHAFT SET SCREW / FLANGED BALL BEARINGS	—	—
1	LS-116	5/16	1	EA	59845	SSF2S-116 1 IN. DIAMETER SHAFT SET SCREW / FLANGED BALL BEARINGS	—	—

## *Browning* RUBRB-100 BOA Concentric Ball Bearings

- Rubber grommet housing
- Concentric locking
- No re-lubrication



Shaft Dia. (In.)	Max. Steady Radial	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
3/4	250	1	EA	59800	RUBRB-112 3/4 IN. DIAMETER SHAFT BOA CONCENTRIC BALL BEARINGS	—	—
1	300	1	EA	59801	RUBRB-116 1 IN. DIAMETER SHAFT BOA CONCENTRIC BALL BEARINGS	—	—

# Browning® RUBRS-100 Set Screw Ball Bearings



- Rubber grommet housing
- Set screw lock
- No re-lubrication

Shaft Dia. (In.)	Max. Steady Radial	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1/2	250	1	EA	59802	RUBRS-108 1/2 IN. SHAFT DIAMETER SET SCREW BALL BEARINGS	—	—
5/8	250	1	EA	59803	RUBRS-110 5/8 IN. DIAMETER SHAFT SET SCREW BALL BEARINGS	—	—
3/4	250	1	EA	59804	RUBRS-112 3/4 IN. DIAMETER SHAFT SET SCREW BALL BEARINGS	—	—
15/16	300	1	EA	59805	RUBRS-115 15/16 IN. DIAMETER SHAFT SET SCREW BALL BEARINGS	—	—
1	300	1	EA	59806	RUBRS-116 CLEARPK 1 IN. DIAMETER SHAFT SET SCREW BALL BEARINGS	—	—

# Browning® Cast Iron Fixed Sheaves

- Single groove sheaves for 3L belts
- AL sheaves are equipped with hollow head set screws and have no keyseat

OD	Bore	Type	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
5	3/4	A	1	EA	52581	AL54X3/4 5X3/4 SINGLE GROOVE SHEAVE	—	—
5	1	A	1	EA	52582	AL54X1 5X1 SINGLE GROOVE SHEAVE	—	—
6	5/8	A	1	EA	52595	AL64X5/8 6X5/8 SINGLE GROOVE SHEAVE	—	—
6	1	A	1	EA	52584	AL64X1 6X1 SINGLE GROOVE SHEAVE	—	—
7	3/4	A	1	EA	52597	AL74X3/4 7X3/4 SINGLE GROOVE SHEAVE	—	—
7	1	A	1	EA	52586	AL74X1 7X1 SINGLE GROOVE SHEAVE	—	—
10	3/4	A	1	EA	52591	AL104X3/4 10X3/4 SINGLE GROOVE SHEAVE	—	—
10	1	A	1	EA	52592	AL104X1 10X1 SINGLE GROOVE SHEAVE	—	—

# Browning® BK Single Groove Cast Iron Sheaves Combination Groove



- Finished bore
- Single groove sheaves
- Combination groove will accept 4L/A and 5L/B belts
- Furnished with standard keyseats and hollowhead screws

OD	Pitch A/4L Dia. (In.)	Pitch B/5L Dia. (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
6.25	5.50	5.90	1	EA	59505	BK65X1 SHEAVES - FHP - FINISHED BORE	—	—
6.95	6.20	6.60	1	EA	59520	BK72X1 SHEAVES - FHP - FINISHED BORE	—	—
8.25	7.50	7.90	1	EA	59535	BK85X1 SHEAVES - FHP - FINISHED BORE	—	—
8.75	8.00	8.40	1	EA	59540	BK90X1 SHEAVES - FHP - FINISHED BORE	—	—

NOTE: Do not use BK sheaves with bores B Gripnotch belt ratings.

## Browning® BKH Single Groove Cast Iron Sheaves Combination Groove

- Single groove sheaves
- Combination groove will 4L/A and 5L/B belts
- Designed to be used in conjunction with H style bushings
- Furnished with standard keyseats, hollowhead screws, and split taper bushings



OD	Pitch A/4L Dia. (In.)	Pitch B/5L Dia. (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
3.75	3.00	3.40	1	EA	59083	BK 36H SHEAVES - FHP H BUSHING STYLE	—	—
3.95	3.20	3.60	1	EA	59084	BK 40H CLEAR PK SHEAVES - FHP H BUSHING STYLE	—	—
4.25	3.50	3.90	1	EA	59085	BK 45H SHEAVES - FHP H BUSHING STYLE	—	—
4.45	3.70	4.10	1	EA	59086	BK 47H SHEAVES - FHP H BUSHING STYLE	—	—
4.75	4.00	4.40	1	EA	59087	BK 50H CLEAR PK SHEAVES - FHP H BUSHING STYLE	—	—
4.95	4.20	4.60	1	EA	59088	BK 52H SHEAVES - FHP H BUSHING STYLE	—	—
5.25	4.50	4.90	1	EA	59089	BK 55H SHEAVES - FHP H BUSHING STYLE	—	—
5.95	5.20	5.60	1	EA	59092	BK 62H SHEAVES - FHP H BUSHING STYLE	—	—
6.25	5.50	5.90	1	EA	59093	BK 65H SHEAVES - FHP H BUSHING STYLE	—	—
6.45	5.70	6.10	1	EA	59094	BK 67H SHEAVES - FHP H BUSHING STYLE	—	—
6.75	6.00	6.40	1	EA	59095	BK 70H SHEAVES - FHP H BUSHING STYLE	—	—
6.95	6.20	6.60	1	EA	59096	BK 72H SHEAVES - FHP H BUSHING STYLE	—	—
7.25	6.50	6.90	1	EA	59097	BK 75H SHEAVES - FHP H BUSHING STYLE	—	—
9.25	8.50	8.90	1	EA	59102	BK 95H SHEAVES - FHP H BUSHING STYLE	—	—
9.75	9.00	9.40	1	EA	59103	BK 100H SHEAVES - FHP H BUSHING STYLE	—	—
10.75	10.00	10.40	1	EA	59104	BK 110H SHEAVES - FHP H BUSHING STYLE	—	—
13.75	13.00	13.40	1	EA	59108	BK 140H SHEAVES - FHP H BUSHING STYLE	—	—

## Browning® H Split Taper Bushings

- Lifetime guarantee
- Keyed to both shaft and hub
- External key provides positive drive with no torque on the cap screws
- Double split barrel assures true concentricity



Keyseat	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1/8 x 1/16	1	EA	59016	H 1/2 CLEAR PK BUSHING SPLIT TAPER STYLE	—	—
3/16 x 3/32	1	EA	59019	H 5/8 CLEAR PK BUSHING SPLIT TAPER STYLE	—	—
3/16 x 3/32	1	EA	59022	H 3/4 BUSHING SPLIT TAPER STYLE	—	—
3/16 x 3/32	1	EA	59025	H 7/8 CLEAR PK BUSHING SPLIT TAPER STYLE	—	—
1/4 x 1/8	1	EA	59028	H 1 CLEAR PK BUSHING SPLIT TAPER STYLE	—	—
1/4 x 1/8	1	EA	59029	H 1 1/8 CLEAR PK BUSHING SPLIT TAPER STYLE	—	—

### Non-Stock Items\*

5/16 x 5/32	1	EA	59032	H 1 3/8 - 5/16 BUSHING SPLIT TAPER STYLE	—	—
8 x 3.5 mm	1	EA	59040	H 24 MM BUSHING SPLIT TAPER STYLE	—	—

\*If non-stock items are needed on a regular basis please notify your GW Berkheimer representative.



# 1VP Single Groove Variable Pitch Sheaves Combination Groove



- Single groove sheaves
- Combination grooves accept 3L, 4L/A, 5L/B, and 5V belts
- Fitted with hollowhead screws
- Cast iron, finished bore

Model	Diameter Range											
	3L Belts				4L/A Belts				5L/B Belts			
	Min. Pitch	Turns Open	Max. Pitch	Turns Open	Min. Pitch	Turns Open	Max. Pitch	Turns Open	Min. Pitch	Turns Open	Max. Pitch	Turns Open
1VP30 x 1/2	1.8	4	2.7	0	—	—	—	—	—	—	—	—
1VP34 x 3/4	1.7	4	2.5	0	1.9	5	2.9	0	2.4	5	3.2	1
1VP34 x 7/8	1.7	4	2.5	0	2.0	5	3.0	0	2.5	5	3.3	1
1VP44 x 7/8	2.7	4	3.5	0	3.0	5	4.0	0	3.2	6	4.2	1
1VP50 x 5/8	3.3	4	4.1	0	3.4	5	4.4	0	3.7	6	4.7	1
1VP50 x 3/4	3.3	4	4.1	0	3.6	5	4.6	0	3.8	6	4.8	1
1VP50 x 7/8	3.3	4	4.1	0	3.4	5	4.4	0	3.7	6	4.7	1
1VP56 x 5/8	3.9	4	4.7	0	4.2	5	5.2	0	4.4	6	5.4	1
1VP56 x 7/8	3.9	4	4.7	0	4.2	5	5.2	0	4.4	6	5.4	1
1VP56 x 1-1/8	3.9	4	4.7	0	4.2	5	5.2	0	4.4	6	5.4	1
1VP60 x 1-1/8	—	—	—	—	4.4	5	5.4	0	4.7	6	5.9	—
1VP60 x 1-3/8	—	—	—	—	4.4	5	5.4	0	4.7	6	5.9	—

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
20	EA	58902	1VP30X1/2 VARIABLE PITCH SHEAVE	—	—
20	EA	52562	1VP34X3/4 VARIABLE PITCH SHEAVE	—	—
1	EA	58924	1VP34X7/8 CLEAR PK VARIABLE PITCH SHEAVE	—	—
1	EA	58931	1VP44X7/8 VARIABLE PITCH SHEAVE	—	—
20	EA	52564	1VP50X5/8 CLEAR PK VARIABLE PITCH SHEAVE	—	—
1	EA	52565	1VP50X3/4 VARIABLE PITCH SHEAVE	—	—
20	EA	58916	1VP50X7/8 CLEAR PK VARIABLE PITCH SHEAVE	—	—
1	EA	58941	1VP56X5/8 VARIABLE PITCH SHEAVE	—	—
1	EA	58943	1VP56X7/8 VARIABLE PITCH SHEAVE	—	—
1	EA	58945	1VP56X1 1/8 VARIABLE PITCH SHEAVE	—	—
1	EA	58948	1VP60X1 1/8 VARIABLE PITCH SHEAVE	—	—
1	EA	58949	1VP60X1 3/8 VARIABLE PITCH SHEAVE	—	—



## 1VL/1VM Single Groove Variable Pitch Sheaves

- Furnished with standard keyseats
- Finished bore
- Cast iron
- For use with 3L, 4L/A, and 5L/B belts



Model	Bore Size	3L Belts				4L or A Belts				5L/B Belts			
		Min. Pitch	Turns Open	Max. Pitch	Turns Open	Min. Datum	Turns Open	Max. Datum	Turns Open	Min. Datum	Turns Open	Max. Datum	Turns Open
1VL34 x 1/2	1/2	1.7	4	2.5	0	1.9	5	2.9	0	2.4	5	3.2	1
1VL34 x 5/8	5/8	1.7	4	2.5	0	1.9	5	2.9	0	2.4	5	3.2	1
1VL40 x 1/2	1/2	2.3	4	3.1	0	2.4	5	3.4	0	2.7	6	3.7	1
1VL40 x 5/8	5/8	2.3	4	3.1	0	2.4	5	3.4	0	2.7	6	3.7	1
1VL40 x 7/8	7/8	2.3	4	3.1	0	2.4	5	3.4	0	2.7	6	3.7	1
1VL44 x 1/2	1/2	2.7	4	3.5	0	2.8	5	3.8	0	3.1	6	4.1	1
1VL44 x 5/8	5/8	2.7	4	3.5	0	2.8	5	3.8	0	3.1	6	4.1	1
1VL44 x 7/8	7/8	2.7	4	3.5	0	2.8	5	3.8	0	3.1	6	4.1	1

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	58921	1VL34X1/2 CLEAR PK VARIABLE PITCH SHEAVE	—	—
20	EA	58905	1VL34X5/8 CLEAR PK VARIABLE PITCH SHEAVE	—	—
20	EA	58906	1VL40X1/2 CLEAR PK VARIABLE PITCH SHEAVE	—	—
20	EA	52559	1VL40X5/8 CLEAR PK VARIABLE PITCH SHEAVE	—	—
20	EA	58909	1VL40X7/8 CLEAR PK VARIABLE PITCH SHEAVE	—	—
20	EA	58910	1VL44X1/2 CLEAR PK VARIABLE PITCH SHEAVE	—	—
20	EA	58911	1VL44X5/8 CLEAR PK VARIABLE PITCH SHEAVE	—	—
20	EA	58912	1VL44X7/8 CLEAR PK VARIABLE PITCH SHEAVE	—	—



## V-Belt Tension Checking Tool



- Proper tensioning is necessary to avoid premature belt wear.
- Indicates tension on all V-belt drives (3L, 4L, 5L, A, B, C, D, 3V, 5V, and 8V).
- Compact, spring-loaded design.
- Adjustable for 10" to 170" belt span and up to 35 pounds of tension.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	52569	BELT TENSION CHECKER	—

# Browning® Light Duty (FHP) V-Belts



- Wrapped construction provides smooth, quiet operation.
- Formulated for maximum flexibility with smaller diameter sheaves.
- Oil and heat resistant.
- Static conducting.

## 3L V-Belts

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	52342	3L160 FHP-BELT	—	—
1	EA	52343	3L170 FHP-BELT	—	—
1	EA	52344	3L180 FHP-BELT	—	—
1	EA	52345	3L190 FHP-BELT	—	—
1	EA	52346	3L200 FHP-BELT	—	—
1	EA	52347	3L210 FHP-BELT	—	—
1	EA	52348	3L220 FHP-BELT	—	—
1	EA	52349	3L230 FHP-BELT	—	—
1	EA	52350	3L240 FHP-BELT	—	—
1	EA	52351	3L250 FHP-BELT	—	—
1	EA	52352	3L260 FHP-BELT	—	—
1	EA	52353	3L270 FHP-BELT	—	—
1	EA	52355	3L290 FHP-BELT	—	—
1	EA	52356	3L300 FHP-BELT	—	—
1	EA	52389	3L310 FHP BELT	—	—
1	EA	52390	3L320 FHP BELT	—	—
1	EA	52391	3L330 FHP BELT	—	—
1	EA	52392	3L340 FHP BELT	—	—
1	EA	52393	3L350 FHP BELT	—	—
1	EA	52394	3L360 FHP BELT	—	—
1	EA	52395	3L370 FHP BELT	—	—
1	EA	52396	3L380 FHP BELT	—	—
1	EA	52397	3L390 FHP BELT	—	—
1	EA	52398	3L400 FHP BELT	—	—
1	EA	52399	3L410 FHP BELT	—	—
1	EA	52402	3L440 FHP BELT	—	—

## 4L V-Belts

1	EA	52449	4L170 FHP BELT	—	—
1	EA	52450	4L180 FHP BELT	—	—
1	EA	52451	4L190 FHP BELT	—	—
1	EA	52452	4L200 FHP BELT	—	—
1	EA	52454	4L210 FHP BELT	—	—
1	EA	52455	4L220 FHP BELT	—	—
1	EA	52456	4L230 FHP BELT	—	—
1	EA	52457	4L240 FHP BELT	—	—
1	EA	52458	4L250 FHP BELT	—	—
1	EA	52459	4L260 FHP BELT	—	—
1	EA	52460	4L270 FHP BELT	—	—
1	EA	52461	4L280 FHP BELT	—	—
1	EA	52462	4L290 FHP BELT	—	—
1	EA	52463	4L300 FHP BELT	—	—
1	EA	52464	4L310 FHP BELT	—	—
1	EA	52465	4L320 FHP BELT	—	—
1	EA	52466	4L330 FHP BELT	—	—
1	EA	52467	4L340 FHP BELT	—	—
1	EA	52468	4L350 FHP BELT	—	—
1	EA	52469	4L360 FHP BELT	—	—
1	EA	52470	4L370 FHP BELT	—	—
1	EA	52471	4L380 FHP BELT	—	—
1	EA	52472	4L390 FHP BELT	—	—
1	EA	52473	4L400 FHP BELT	—	—
1	EA	52474	4L410 FHP BELT	—	—
1	EA	52476	4L420 FHP BELT	—	—
1	EA	52477	4L430 FHP BELT	—	—
1	EA	52479	4L440 FHP BELT	—	—
1	EA	52480	4L450 FHP BELT	—	—
1	EA	52481	4L460 FHP BELT	—	—
1	EA	52482	4L470 FHP BELT	—	—
1	EA	52483	4L480 FHP BELT	—	—
1	EA	52484	4L490 FHP BELT	—	—
1	EA	52485	4L500 FHP BELT	—	—
1	EA	52486	4L510 FHP BELT	—	—
1	EA	52488	4L530 FHP BELT	—	—





**Super Gripbelts  
A V-Belts**



- Static conducting

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	57800	A20 GRIPBELT	—	—
1	EA	57801	A21 GRIPBELT	—	—
1	EA	57802	A22 GRIPBELT	—	—
1	EA	57803	A23 GRIPBELT	—	—
1	EA	57804	A24 GRIPBELT	—	—
1	EA	57805	A25 GRIPBELT	—	—
1	EA	57806	A26 GRIPBELT	—	—
1	EA	57807	A27 GRIPBELT	—	—
1	EA	57808	A28 GRIPBELT	—	—
1	EA	57809	A29 GRIPBELT	—	—
1	EA	57810	A30 GRIPBELT	—	—
1	EA	57811	A31 GRIPBELT	—	—
1	EA	57812	A32 GRIPBELT	—	—
1	EA	57813	A33 GRIPBELT	—	—
1	EA	57814	A34 GRIPBELT	—	—
1	EA	57815	A35 GRIPBELT	—	—
1	EA	57816	A36 GRIPBELT	—	—
1	EA	57817	A37 GRIPBELT	—	—
1	EA	57818	A38 GRIPBELT	—	—
1	EA	57819	A39 GRIPBELT	—	—
1	EA	57820	A40 GRIPBELT	—	—
1	EA	57821	A41 GRIPBELT	—	—
1	EA	57822	A42 GRIPBELT	—	—
1	EA	57823	A43 GRIPBELT	—	—
1	EA	57824	A44 GRIPBELT	—	—
1	EA	57825	A45 GRIPBELT	—	—
1	EA	57826	A46 GRIPBELT	—	—
1	EA	57827	A47 GRIPBELT	—	—
1	EA	57828	A48 GRIPBELT	—	—
1	EA	57829	A49 GRIPBELT	—	—
1	EA	57830	A50 GRIPBELT	—	—
1	EA	57831	A51 GRIPBELT	—	—
1	EA	57832	A52 GRIPBELT	—	—
1	EA	57833	A53 GRIPBELT	—	—
1	EA	57834	A54 GRIPBELT	—	—
1	EA	57835	A55 GRIPBELT	—	—
1	EA	57836	A56 GRIPBELT	—	—
1	EA	57837	A57 GRIPBELT	—	—
1	EA	57839	A58 GRIPBELT	—	—
1	EA	57840	A59 GRIPBELT	—	—
1	EA	57841	A60 GRIPBELT	—	—
1	EA	57842	A61 GRIPBELT	—	—
1	EA	57843	A62 GRIPBELT	—	—
1	EA	57844	A63 GRIPBELT	—	—
1	EA	57845	A64 GRIPBELT	—	—
1	EA	57846	A65 GRIPBELT	—	—
1	EA	57847	A66 GRIPBELT	—	—
1	EA	57848	A67 GRIPBELT	—	—
1	EA	57849	A68 GRIPBELT	—	—
1	EA	57850	A69 GRIPBELT	—	—
1	EA	57851	A70 GRIPBELT	—	—
1	EA	57852	A71 GRIPBELT	—	—
1	EA	57853	A72 GRIPBELT	—	—
1	EA	57854	A73 GRIPBELT	—	—
1	EA	57855	A74 GRIPBELT	—	—
1	EA	57856	A75 GRIPBELT	—	—
1	EA	57857	A76 GRIPBELT	—	—
1	EA	57858	A77 GRIPBELT	—	—
1	EA	57859	A78 GRIPBELT	—	—
1	EA	57860	A79 GRIPBELT	—	—
1	EA	57861	A80 GRIPBELT	—	—
1	EA	57862	A81 GRIPBELT	—	—
1	EA	57863	A82 GRIPBELT	—	—

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STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	57864	A83 GRIPBELT	—	—
1	EA	57865	A84 GRIPBELT	—	—
1	EA	57866	A85 GRIPBELT	—	—
1	EA	57867	A86 GRIPBELT	—	—
1	EA	57868	A87 GRIPBELT	—	—
1	EA	57869	A88 GRIPBELT	—	—
1	EA	57870	A89 GRIPBELT	—	—
1	EA	57871	A90 GRIPBELT	—	—
1	EA	57872	A91 GRIPBELT	—	—
1	EA	57873	A92 GRIPBELT	—	—
1	EA	57874	A93 GRIPBELT	—	—
1	EA	57875	A94 GRIPBELT	—	—
1	EA	57876	A95 GRIPBELT	—	—
1	EA	57877	A96 GRIPBELT	—	—
1	EA	57879	A98 GRIPBELT	—	—
1	EA	57887	A100 GRIPBELT	—	—
1	EA	57888	A103 GRIPBELT	—	—
1	EA	57880	A105 GRIPBELT	—	—
1	EA	57881	A110 GRIPBELT	—	—
1	EA	57882	A112 GRIPBELT	—	—
1	EA	57883	A120 GRIPBELT	—	—
1	EA	57884	A128 GRIPBELT	—	—
1	EA	57885	A136 GRIPBELT	—	—
1	EA	57886	A144 GRIPBELT	—	—

***Browning* Super Gripbelts  
B V-Belts**

- Static conducting



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	57901	B25 GRIPBELT	—	—
1	EA	57902	B26 GRIPBELT	—	—
1	EA	57903	B28 GRIPBELT	—	—
1	EA	57904	B29 GRIPBELT	—	—
1	EA	57905	B30 GRIPBELT	—	—
1	EA	57906	B31 GRIPBELT	—	—
1	EA	57907	B32 GRIPBELT	—	—
1	EA	57908	B33 GRIPBELT	—	—
1	EA	57909	B34 GRIPBELT	—	—
1	EA	57910	B35 GRIPBELT	—	—
1	EA	57911	B36 GRIPBELT	—	—
1	EA	57912	B37 GRIPBELT	—	—
1	EA	57913	B38 GRIPBELT	—	—
1	EA	57914	B39 GRIPBELT	—	—
1	EA	57915	B40 GRIPBELT	—	—
1	EA	57916	B41 GRIPBELT	—	—
1	EA	57917	B42 GRIPBELT	—	—
1	EA	57918	B43 GRIPBELT	—	—
1	EA	57919	B44 GRIPBELT	—	—
1	EA	57920	B45 GRIPBELT	—	—
1	EA	57921	B46 GRIPBELT	—	—
1	EA	57922	B47 GRIPBELT	—	—
1	EA	57923	B48 GRIPBELT	—	—
1	EA	57924	B49 GRIPBELT	—	—
1	EA	57925	B50 GRIPBELT	—	—
1	EA	57926	B51 GRIPBELT	—	—
1	EA	57927	B52 GRIPBELT	—	—
1	EA	57928	B53 GRIPBELT	—	—
1	EA	57929	B54 GRIPBELT	—	—
1	EA	58067	B55 GRIPBELT	—	—
1	EA	57931	B56 GRIPBELT	—	—
1	EA	57932	B57 GRIPBELT	—	—
1	EA	57933	B58 GRIPBELT	—	—

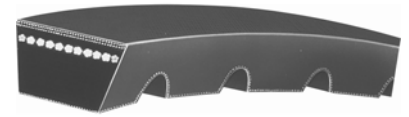
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STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	57934	B59 GRIPBELT	—	—
1	EA	57935	B60 GRIPBELT	—	—
1	EA	57936	B61 GRIPBELT	—	—
1	EA	57937	B62 GRIPBELT	—	—
1	EA	57938	B63 GRIPBELT	—	—
1	EA	57939	B64 GRIPBELT	—	—
1	EA	57940	B65 GRIPBELT	—	—
1	EA	57941	B66 GRIPBELT	—	—
1	EA	57942	B67 GRIPBELT	—	—
1	EA	57943	B68 GRIPBELT	—	—
1	EA	57944	B69 GRIPBELT	—	—
1	EA	57945	B70 GRIPBELT	—	—
1	EA	57946	B71 GRIPBELT	—	—
1	EA	57947	B72 GRIPBELT	—	—
1	EA	57948	B73 GRIPBELT	—	—
1	EA	57949	B74 GRIPBELT	—	—
1	EA	57950	B75 GRIPBELT	—	—
1	EA	57951	B76 GRIPBELT	—	—
1	EA	57952	B77 GRIPBELT	—	—
1	EA	57953	B78 GRIPBELT	—	—
1	EA	57954	B79 GRIPBELT	—	—
1	EA	57955	B80 GRIPBELT	—	—
1	EA	57956	B81 GRIPBELT	—	—
1	EA	57957	B82 GRIPBELT	—	—
1	EA	57958	B83 GRIPBELT	—	—
1	EA	57959	B84 GRIPBELT	—	—
1	EA	57960	B85 GRIPBELT	—	—
1	EA	57961	B86 GRIPBELT	—	—
1	EA	57962	B87 GRIPBELT	—	—
1	EA	57963	B88 GRIPBELT	—	—
1	EA	57964	B89 GRIPBELT	—	—
1	EA	57965	B90 GRIPBELT	—	—
1	EA	57966	B91 GRIPBELT	—	—
1	EA	57967	B92 GRIPBELT	—	—
1	EA	57968	B93 GRIPBELT	—	—
1	EA	57969	B94 GRIPBELT	—	—
1	EA	57970	B95 GRIPBELT	—	—
1	EA	57971	B96 GRIPBELT	—	—
1	EA	57972	B97 GRIPBELT	—	—
1	EA	57979	B98 GRIPBELT	—	—
1	EA	57984	B99 GRIPBELT	—	—
1	EA	57973	B100 GRIPBELT	—	—
1	EA	57974	B101 GRIPBELT	—	—
1	EA	57975	B103 GRIPBELT	—	—
1	EA	57976	B105 GRIPBELT	—	—
1	EA	57977	B108 GRIPBELT	—	—
1	EA	57978	B111 GRIPBELT	—	—
1	EA	57980	B112 GRIPBELT	—	—
1	EA	57982	B116 GRIPBELT	—	—
1	EA	57981	B120 GRIP BELT	—	—
1	EA	58097	B124 GRIPBELT	—	—
1	EA	58099	B128 GRIPBELT	—	—
1	EA	58100	B133 GRIPBELT	—	—
1	EA	58101	B136 GRIPBELT	—	—
1	EA	58102	B140 GRIPBELT	—	—
1	EA	58103	B144 GRIPBELT	—	—
1	EA	58105	B150 GRIPBELT	—	—
1	EA	58106	B154 GRIPBELT	—	—
1	EA	58107	B158 GRIPBELT	—	—
1	EA	58108	B162 GRIPBELT	—	—
1	EA	58109	B173 GRIPBELT	—	—

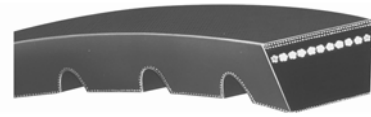
# Browning® 358 Gripbelts

- Oil and heat resistant
- More horsepower in less space
- Static conducting



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	58351	3VX265 358 BELT	—	—
1	EA	58353	3VX300 358 BELT	—	—
1	EA	58361	3VX475 358 BELT	—	—
1	EA	58362	3VX500 358 BELT	—	—
1	EA	58364	3VX560 358 BELT	—	—
1	EA	58365	3VX600 358 BELT	—	—
1	EA	58366	3VX630 358 BELT	—	—
1	EA	58367	3VX670 358 BELT	—	—
1	EA	58368	3VX710 358 BELT	—	—
1	EA	58369	3VX750 358 BELT	—	—
1	EA	58370	3VX800 358 BELT	—	—
1	EA	58371	3VX850 358 BELT	—	—
1	EA	58376	3VX1120 358 BELT	—	—
1	EA	58377	3VX1180 358 BELT	—	—
1	EA	58378	3VX1250 358 BELT	—	—
1	EA	58380	5VX450 358 BELT	—	—
1	EA	58382	5VX490 358 BELT	—	—
1	EA	58383	5VX500 358 BELT	—	—
1	EA	58384	5VX510 358 BELT	—	—
1	EA	58385	5VX530 358 BELT	—	—
1	EA	58386	5VX540 358 BELT	—	—
1	EA	58387	5VX550 358 BELT	—	—
1	EA	58388	5VX560 358 BELT	—	—
1	EA	58389	5VX570 358 BELT	—	—
1	EA	58390	5VX580 358 BELT	—	—
1	EA	58391	5VX590 358 BELT	—	—
1	EA	58392	5VX600 358 BELT	—	—
1	EA	58393	5VX610 358 BELT	—	—
1	EA	58394	5VX630 358 BELT	—	—
1	EA	58395	5VX650 358 BELT	—	—
1	EA	58396	5VX660 358 BELT	—	—
1	EA	58397	5VX670 358 BELT	—	—
1	EA	58398	5VX680 358 BELT	—	—
1	EA	58399	5VX690 358 BELT	—	—
1	EA	58400	5VX710 358 BELT	—	—
1	EA	58401	5VX730 358 BELT	—	—
1	EA	58402	5VX740 358 BELT	—	—
1	EA	58403	5VX750 358 BELT	—	—
1	EA	58404	5VX780 358 BELT	—	—
1	EA	58405	5VX800 358 BELT	—	—
1	EA	58410	5VX860 358 BELT	—	—
1	EA	58411	5VX880 358 BELT	—	—
1	EA	58412	5VX900 358 BELT	—	—
1	EA	58413	5VX930 358 BELT	—	—
1	EA	58414	5VX950 358 BELT	—	—
1	EA	58415	5VX960 358 BELT	—	—
1	EA	58416	5VX1000 358 BELT	—	—
1	EA	58417	5VX1030 358 BELT	—	—
1	EA	58419	5VX1080 358 BELT	—	—
1	EA	58420	5VX1120 358 BELT	—	—
1	EA	58421	5VX1150 358 BELT	—	—
1	EA	58422	5VX1180 358 BELT	—	—
1	EA	58423	5VX1230 358 BELT	—	—
1	EA	58424	5VX1250 358 BELT	—	—
1	EA	58425	5VX1320 358 BELT	—	—
1	EA	58426	5VX1400 358 BELT	—	—
1	EA	58427	5VX1500 358 BELT	—	—
1	EA	58428	5VX1600 358 BELT	—	—
1	EA	58429	5VX1700 358 BELT	—	—
1	EA	58432	5VX2000 358 BELT	—	—

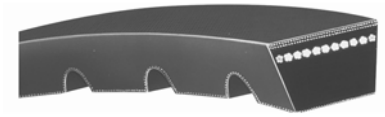
# Browning® AX Gripnotch Belts



- Precision molded raw edge construction
- More horsepower in less space
- Notches are molded extra deep
- Oil and heat resistant
- Static conducting

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	58130	AX20 GRIPNOTCH	—	—
1	EA	58131	AX21 GRIPNOTCH	—	—
1	EA	58132	AX22 GRIPNOTCH	—	—
1	EA	58133	AX23 GRIPNOTCH	—	—
1	EA	58134	AX24 GRIPNOTCH	—	—
1	EA	58135	AX25 GRIPNOTCH	—	—
1	EA	58136	AX26 GRIPNOTCH	—	—
1	EA	58137	AX27 GRIPNOTCH	—	—
1	EA	58138	AX28 GRIPNOTCH	—	—
1	EA	58139	AX29 GRIPNOTCH	—	—
1	EA	58140	AX30 GRIPNOTCH	—	—
1	EA	58141	AX31 GRIPNOTCH	—	—
1	EA	58142	AX32 GRIPNOTCH	—	—
1	EA	58143	AX33 GRIPNOTCH	—	—
1	EA	58144	AX34 GRIPNOTCH	—	—
1	EA	58145	AX35 GRIPNOTCH	—	—
1	EA	58146	AX36 GRIPNOTCH	—	—
1	EA	58147	AX37 GRIPNOTCH	—	—
1	EA	58148	AX38 GRIPNOTCH	—	—
1	EA	58149	AX39 GRIPNOTCH	—	—
1	EA	58150	AX40 GRIPNOTCH	—	—
1	EA	58151	AX41 GRIPNOTCH	—	—
1	EA	58152	AX42 GRIPNOTCH	—	—
1	EA	58153	AX43 GRIPNOTCH	—	—
1	EA	58154	AX44 GRIPNOTCH	—	—
1	EA	58155	AX45 GRIPNOTCH	—	—
1	EA	58156	AX46 GRIPNOTCH	—	—
1	EA	58157	AX47 GRIPNOTCH	—	—
1	EA	58158	AX48 GRIPNOTCH	—	—
1	EA	58159	AX49 GRIPNOTCH	—	—
1	EA	58160	AX50 GRIPNOTCH	—	—
1	EA	58161	AX51 GRIPNOTCH	—	—
1	EA	58184	AX52 GRIPNOTCH	—	—
1	EA	58162	AX53 GRIPNOTCH	—	—
1	EA	58163	AX54 GRIPNOTCH	—	—
1	EA	58164	AX55 GRIPNOTCH	—	—
1	EA	58165	AX56 GRIPNOTCH	—	—
1	EA	58166	AX57 GRIPNOTCH	—	—
1	EA	58128	AX58 GRIPNOTCH	—	—
1	EA	58182	AX59 GRIPNOTCH	—	—
1	EA	58167	AX60 GRIPNOTCH	—	—
1	EA	58168	AX62 GRIPNOTCH	—	—
1	EA	58183	AX63 GRIPNOTCH	—	—
1	EA	58169	AX64 GRIPNOTCH	—	—
1	EA	58170	AX66 GRIPNOTCH	—	—
1	EA	58171	AX68 GRIPNOTCH	—	—
1	EA	58172	AX70 GRIPNOTCH	—	—
1	EA	58173	AX71 GRIPNOTCH	—	—
1	EA	58174	AX75 GRIPNOTCH	—	—
1	EA	58129	AX77 GRIPNOTCH	—	—
1	EA	58175	AX78 GRIPNOTCH	—	—
1	EA	58176	AX80 GRIPNOTCH	—	—
1	EA	58177	AX85 GRIPNOTCH	—	—
1	EA	58178	AX90 GRIPNOTCH	—	—
1	EA	58179	AX92 GRIPNOTCH	—	—
1	EA	58180	AX96 GRIPNOTCH	—	—
1	EA	58181	AX105 GRIPNOTCH	—	—

# Browning® BX Gripnotch Belts



- Precision molded raw edge construction
- More horsepower in less space
- Notches are molded extra deep
- Oil and heat resistant
- Static conducting

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	58250	BX28 GRIPNOTCH	—	—
1	EA	58251	BX30 GRIPNOTCH	—	—
1	EA	58252	BX32 GRIPNOTCH	—	—
1	EA	58253	BX33 GRIPNOTCH	—	—
1	EA	58254	BX34 GRIPNOTCH	—	—
1	EA	58255	BX35 GRIPNOTCH	—	—
1	EA	58256	BX36 GRIPNOTCH	—	—
1	EA	58257	BX38 GRIPNOTCH	—	—
1	EA	58258	BX39 GRIPNOTCH	—	—
1	EA	58259	BX40 GRIPNOTCH	—	—
1	EA	58260	BX41 GRIPNOTCH	—	—
1	EA	58261	BX42 GRIPNOTCH	—	—
1	EA	58262	BX43 GRIPNOTCH	—	—
1	EA	58263	BX44 GRIPNOTCH	—	—
1	EA	58264	BX45 GRIPNOTCH	—	—
1	EA	58265	BX46 GRIPNOTCH	—	—
1	EA	58266	BX47 GRIPNOTCH	—	—
1	EA	58267	BX48 GRIPNOTCH	—	—
1	EA	58268	BX49 GRIPNOTCH	—	—
1	EA	58269	BX50 GRIPNOTCH	—	—
1	EA	58270	BX51 GRIPNOTCH	—	—
1	EA	58271	BX52 GRIPNOTCH	—	—
1	EA	58272	BX53 GRIPNOTCH	—	—
1	EA	58273	BX54 GRIPNOTCH	—	—
1	EA	58274	BX55 GRIPNOTCH	—	—
1	EA	58275	BX56 GRIPNOTCH	—	—
1	EA	58276	BX57 GRIPNOTCH	—	—
1	EA	58277	BX58 GRIPNOTCH	—	—
1	EA	58278	BX59 GRIPNOTCH	—	—
1	EA	58279	BX60 GRIPNOTCH	—	—
1	EA	58280	BX61 GRIPNOTCH	—	—
1	EA	58281	BX62 GRIPNOTCH	—	—
1	EA	58282	BX63 GRIPNOTCH	—	—
1	EA	58283	BX64 GRIPNOTCH	—	—
1	EA	58284	BX65 GRIPNOTCH	—	—
1	EA	58285	BX66 GRIPNOTCH	—	—
1	EA	58286	BX67 GRIPNOTCH	—	—
1	EA	58287	BX68 GRIPNOTCH	—	—
1	EA	58288	BX70 GRIPNOTCH	—	—
1	EA	58289	BX71 GRIPNOTCH	—	—
1	EA	58290	BX72 GRIPNOTCH	—	—
1	EA	58291	BX73 GRIPNOTCH	—	—
1	EA	58292	BX74 GRIPNOTCH	—	—
1	EA	58293	BX75 GRIPNOTCH	—	—
1	EA	58294	BX76 GRIPNOTCH	—	—
1	EA	58295	BX77 GRIPNOTCH	—	—
1	EA	58296	BX78 GRIPNOTCH	—	—
1	EA	58297	BX79 GRIPNOTCH	—	—
1	EA	58298	BX80 GRIPNOTCH	—	—
1	EA	58299	BX81 GRIPNOTCH	—	—
1	EA	58300	BX82 GRIPNOTCH	—	—
1	EA	58301	BX83 GRIPNOTCH	—	—
1	EA	58302	BX84 GRIPNOTCH	—	—
1	EA	58303	BX85 GRIPNOTCH	—	—
1	EA	58304	BX86 GRIPNOTCH	—	—
1	EA	58305	BX87 GRIPNOTCH	—	—
1	EA	58306	BX88 GRIPNOTCH	—	—
1	EA	58307	BX89 GRIPNOTCH	—	—

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STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	58308	BX90 GRIPNOTCH	—	—
1	EA	58309	BX91 GRIPNOTCH	—	—
1	EA	58310	BX92 GRIPNOTCH	—	—
1	EA	58311	BX93 GRIPNOTCH	—	—
1	EA	58312	BX94 GRIPNOTCH	—	—
1	EA	58313	BX95 GRIPNOTCH	—	—
1	EA	58314	BX96 GRIPNOTCH	—	—
1	EA	58315	BX97 GRIPNOTCH	—	—
1	EA	58316	BX98 GRIPNOTCH	—	—
1	EA	58317	BX99 GRIPNOTCH	—	—
1	EA	58318	BX100 GRIPNOTCH	—	—
1	EA	58319	BX103 GRIPNOTCH	—	—
1	EA	58320	BX105 GRIPNOTCH	—	—
1	EA	58321	BX106 GRIPNOTCH	—	—
1	EA	58322	BX108 GRIPNOTCH	—	—
1	EA	58323	BX112 GRIPNOTCH	—	—
1	EA	58324	BX113 GRIPNOTCH	—	—
1	EA	58325	BX115 GRIPNOTCH	—	—
1	EA	58326	BX116 GRIPNOTCH	—	—
1	EA	58327	BX120 GRIPNOTCH	—	—
1	EA	58328	BX123 GRIPNOTCH	—	—
1	EA	58329	BX124 GRIPNOTCH	—	—
1	EA	58330	BX126 GRIPNOTCH	—	—
1	EA	58331	BX128 GRIPNOTCH	—	—
1	EA	58332	BX133 GRIPNOTCH	—	—
1	EA	58333	BX136 GRIPNOTCH	—	—
1	EA	58334	BX140 GRIPNOTCH	—	—
1	EA	58335	BX144 GRIPNOTCH	—	—
1	EA	58336	BX148 GRIPNOTCH	—	—
1	EA	58337	BX150 GRIPNOTCH	—	—
1	EA	58338	BX154 GRIPNOTCH	—	—
1	EA	58339	BX158 GRIPNOTCH	—	—
1	EA	58340	BX162 GRIPNOTCH	—	—
1	EA	58341	BX173 GRIPNOTCH	—	—
1	EA	58342	BX180 GRIPNOTCH	—	—
1	EA	58343	BX191 GRIPNOTCH	—	—
1	EA	58344	BX195 GRIPNOTCH	—	—
1	EA	58345	BX210 GRIPNOTCH	—	—
1	EA	58346	BX240 GRIPNOTCH	—	—

***Browning* Griptwist Belts**



- Adjustable to any length.
- Ideal for center drives, vibration suppression, and hostile environments.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	PKG	58440	3LP 5 FT GRIPTWIST	—	—
1	PKG	58441	AP 5FT GRIPTWIST (5FT=1PKG)	—	—
1	PKG	58442	BP 5 FT GRIPTWIST (5FT=1PKG)	—	—

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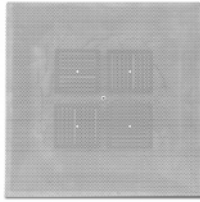
# ***Group 3 Registers and Filters***

## **Group 3 Registers and Filters**

Selkirk Supply Registers.....	3 - 1
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Continental Supply Registers.....	3 - 4
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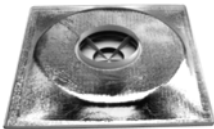
## **782-SA Perforated Diffuser**



Perforated face supply T-Bar lay-in diffuser with 4-way pattern deflectors.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
4	EA	36745	782-SA 2X2 PERFORATED DIFFUSER	—	—	—	—

## **1300 and 1301-INS Insulated High Volume Diffuser**



- High volume 3-cone face with 2" collar and insulation.
- Model 1301 also includes damper.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
2	EA	36750	1300-INS 6IN INSULATED HIGH VOL DIFF W/COLLAR	—	—	—	—
2	EA	36700	1301-INS 8IN INSULATED HIGH VOL DIFF W/COLLAR & DAMP	—	—	—	—
2	EA	36751	1300-INS 8IN INSULATED HIGH VOL DIFF W/COLLAR	—	—	—	—
2	EA	36752	1300-INS 10IN INSULATED HIGH VOL DIFF W/COLLAR	—	—	—	—
2	EA	36753	1300-INS 12IN INSULATED HIGH VOL DIFF W/COLLAR	—	—	—	—

## **1300 Uninsulated Diffuser**



High volume 3-cone face with 2" collar.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
2	EA	36760	1300 6IN UNINSULATED DIFFUSER W/COLLAR	—	—	—	—
2	EA	36761	1300 8IN UNINSULATED DIFFUSER W/COLLAR	—	—	—	—
2	EA	36762	1300 10IN UNINSULATED DIFFUSER W/COLLAR	—	—	—	—
2	EA	36763	1300 12IN UNINSULATED DIFFUSER W/COLLAR	—	—	—	—
2	EA	36764	1300 14IN UNINSULATED DIFFUSER W/COLLAR	—	—	—	—

## **800-DO T-Bar Damper**



Rounded ceiling damper.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
10	EA	36770	800-DO 6IN T BAR DAMPER	—	—	—	—
10	EA	36771	800-DO 8IN T BAR DAMPER	—	—	—	—
10	EA	36772	800-DO 10IN T BAR DAMPER	—	—	—	—
10	EA	36773	800-DO 12IN T BAR DAMPER	—	—	—	—

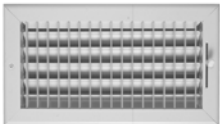
## **SELKIRK. E200-VM Sidewall Supply Registers**



- Vertical single deflection air foils with multi-shutter damper
- Extruded aluminum frame
- White EDP finish
- Individually adjustable extruded aluminum air foil

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
10	EA	36902	E200-VM 8X8 WHITE SW SUPPLY REGISTER	—	—
10	EA	36903	E200-VM 10X4 WHITE SW SUPPLY REGISTER	—	—
10	EA	36904	E200-VM 10X6 WHITE SW SUPPLY REGISTER	—	—
10	EA	36905	E200-VM 12X4 WHITE SW SUPPLY REGISTER	—	—
10	EA	36906	E200-VM 12X6 WHITE SW SUPPLY REGISTER	—	—
10	EA	36907	E200-VM 12X8 WHITE SW SUPPLY REGISTER	—	—
10	EA	36908	E200-VM 14X4 WHITE SW SUPPLY REGISTER	—	—
10	EA	36909	E200-VM 14X6 WHITE SW SUPPLY REGISTER	—	—
10	EA	36910	E200-VM 14X8 WHITE SW SUPPLY REGISTER	—	—
10	EA	36911	E200-VM 16X6 WHITE SW SUPPLY REGISTER	—	—
10	EA	36912	E200-VM 16X8 WHITE SW SUPPLY REGISTER	—	—
10	EA	36913	E200-VM 16X10 WHITE SW SUPPLY REGISTER	—	—
10	EA	36914	E200-VM 18X6 WHITE SW SUPPLY REGISTER	—	—
10	EA	36915	E200-VM 18X8 WHITE SW SUPPLY REGISTER	—	—
10	EA	36916	E200-VM 20X6 WHITE SW SUPPLY REGISTER	—	—
10	EA	36917	E200-VM 20X8 WHITE SW SUPPLY REGISTER	—	—
10	EA	36918	E200-VM 20X12 WHITE SW SUPPLY REGISTER	—	—
6	EA	36920	E200-VM 24X8 WHITE SW SUPPLY REGISTER	—	—
6	EA	36921	E200-VM 24X10 WHITE SW SUPPLY REGISTER	—	—
6	EA	36922	E200-VM 24X12 WHITE SW SUPPLY REGISTER	—	—
6	EA	36923	E200-VM 30X6 WHITE SW SUPPLY REGISTER	—	—

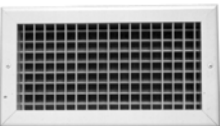
## **SELKIRK. 220-V Sidewall Supply Register**



Vertical adjustable type air foil with multi-shutter damper.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
10	EA	36940	220V 10X4 WHITE SW REGISTER	—	—
10	EA	36945	220V 12X6 WHITE SW REGISTER	—	—
10	EA	36946	220V 14X6 WHITE SW REGISTER	—	—

## **SELKIRK. E240-V and E240-VO Sidewall Supply Register**



- Double deflection vertical front and horizontal rear air foil.
- Extruded aluminum frame.
- White finish.
- Individually adjustable extruded aluminum air foil.

### Grille Only

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
10	EA	36819	E240-V 14X8 WHITE SW SUPPLY REGISTER	—	—	—	—
10	EA	36820	E240-V 16X8 WHITE SW SUPPLY REGISTER	—	—	—	—

### Grille with Key Operated Opposed Blade Damper

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
5	EA	36950	E240-VO 10X6 WHITE SW SUPPLY REGISTER	—	—
5	EA	36951	E240-VO 12X6 WHITE SW SUPPLY REGISTER	—	—

## SELKIRK. E280 Sidewall Return Registers



Series E280 return grille is ideal for commercial or residential construction. Can also be used as an economical supply grille.

- Fixed Bar Grille
- Extruded aluminum construction
- White EDP finish
- Horizontal louvers fixed at 45° angle

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
12	EA	36836	E280 10X6 WHITE SW RETURN REGISTER	—	—
12	EA	36837	E280 12X6 WHITE SW RETURN REGISTER	—	—
12	EA	36838	E280 12X8 WHITE SW RETURN REGISTER	—	—
12	EA	36839	E280 12X12 WHITE SW RETURN REGISTER	—	—
12	EA	36840	E280 14X6 WHITE SW RETURN REGISTER	—	—
12	EA	36841	E280 14X8 WHITE SW RETURN REGISTER	—	—
12	EA	36842	E280 14X10 WHITE SW RETURN REGISTER	—	—
4	EA	36863	E280 14X14 WHITE SW RETURN REGISTER	—	—
12	EA	36849	E280 20X12 WHITE SW RETURN REGISTER	—	—
4	EA	36852	E280 20X20 WHITE SW RETURN REGISTER	—	—
10	EA	36855	E280 24X12 WHITE SW RETURN REGISTER	—	—
5	EA	36856	E280 24X14 WHITE SW RETURN REGISTER	—	—
5	EA	36857	E280 24X18 WHITE SW RETURN REGISTER	—	—
10	EA	36867	E280 30X6 WHITE SW RETURN REGISTER	—	—
10	EA	36858	E280 30X8 WHITE SW RETURN REGISTER	—	—
10	EA	36868	E280 30X10 WHITE SW RETURN REGISTER	—	—
10	EA	36859	E280 30X12 WHITE SW RETURN REGISTER	—	—
5	EA	36860	E280 30X14 WHITE SW RETURN REGISTER	—	—
10	EA	36861	E280 36X8 WHITE SW RETURN REGISTER	—	—
4	EA	36862	E280 36X14 WHITE SW RETURN REGISTER	—	—

## SELKIRK. E280FF Filter Grille



Series E280FF is designed for both commercial and residential applications. Provides easy access for filter changes.

- Fixed bar
- Heavy extruded aluminum construction
- White EDP finish
- Horizontal face bars set at 45° angle
- Hinged face fits flush into frame

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	36880	E280FF 20X16 WHITE FILTER GRILLE	—	—
1	EA	36881	E280FF 20X20 WHITE FILTER GRILL	—	—

## SELKIRK. TB170FF T-Bar Filter Frame

- Stamped face, steel, T-bar filter frame
- 1/2" lance



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
1	EA	36746	TB170FF 2X2 UNINSULATED T BAR FILTER GRILL	—	—	—	—



## Series 22 Sidewall/Ceiling Supply Registers

- Two bars per inch
- Two-way throw
- Multi-shutter damper

- Lanced face
- White steel



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
24	EA	33024	22W0806 8X6 SW SUPPLY	—	—	—	—
24	EA	33026	22W1004 10X4 SW SUPPLY	—	—	—	—
24	EA	33028	22W1006 10X6 SW SUPPLY	—	—	—	—
24	EA	33032	22W1204 12X4 SW SUPPLY	—	—	—	—
24	EA	33034	22W1206 12X6 SW SUPPLY	—	—	—	—
16	EA	33035	22W1208 12X8 SW SUPPLY	—	—	—	—
24	EA	33036	22W1404 14X4 SW SUPPLY	—	—	—	—
24	EA	33040	22W1406 14X6 SW SUPPLY	—	—	—	—



## Series 23 Sidewall/Ceiling Supply Registers

- Two bars per inch
- Three-way throw
- Multi-shutter damper

- Lanced face
- White steel



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
24	EA	33044	23W1006 10X6 3-WAY DIFF	—	—	—	—
24	EA	33045	23W1206 12X6 3-WAY DIFF	—	—	—	—



## Series 32 Sidewall/Ceiling Supply Registers

- Three bars per inch
- Two-way throw
- Multi-shutter damper

- Lanced face
- White steel



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
24	EA	33224	32W0804 8X4 SW SUPPLY	—	—	—	—
24	EA	33225	32W0806 8X6 SW SUPPLY	—	—	—	—
24	EA	33226	32W1004 10X4 SW SUPPLY	—	—	—	—
16	EA	33227	32W1008 10X8 SW SUPPLY	—	—	—	—
24	EA	33228	32W1006 10X6 SW SUPPLY	—	—	—	—
24	EA	33232	32W1204 12X4 SW SUPPLY	—	—	—	—
16	EA	33233	32W1208 12X8 SW SUPPLY	—	—	—	—
24	EA	33234	32W1206 12X6 SW SUPPLY	—	—	—	—
16	EA	33235	32W1408 14X8 SW SUPPLY	—	—	—	—
24	EA	33236	32W1404 14X4 SW SUPPLY	—	—	—	—
24	EA	33240	32W1406 14X6 SW SUPPLY	—	—	—	—



## P19 Square Ceiling Supply Diffuser

- Unit: 8" x 8"
- Outside Dimensions: 11-1/4" x 11-1/4"
- Adjustable collar fits 6", 7" or 8" flex duct
- Diffuser, damper, and outlet assembly all in one
- 4-way airthrow
- White finish



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
5	EA	33501	P19W08084 SQUARE AIR DIFFUSER	—	—	—	—



## P20 Round Ceiling Supply Diffuser

- Unit: 8"
- External Diameter: 12-1/8"
- Adjustable collar fits 6", 7", or 8" flex duct
- Diffuser, damper, and outlet assembly all in one
- 360° throw pattern
- White finish



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
4	EA	33506	P20W08 ROUND AIR DIFFUSER	—	—	—	—



## Series 16 Ceiling Supply Diffusers

- Steel construction
- Step-down design
- 360 degree deflection
- White finish



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
10	EA	33211	1606 6IN W CEILING DIFFUSER	—	—	—	—
10	EA	33212	1608 8IN W CEILING DIFFUSER	—	—	—	—
10	EA	33213	1610 10IN W CEILING DIFFUSER	—	—	—	—
10	EA	33214	1612 12IN W CEILING DIFFUSER	—	—	—	—
10	EA	33215	1614 14IN W CEILING DIFFUSER	—	—	—	—



## Series 12B Butterfly Damper with Duct Ring

- Steel construction
- Autumn brown finish



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
10	EA	33200	12B06D 6IN RD DAMPER W/DUCT RING	—	—	—	—
10	EA	33201	12B08D 8IN RD DAMPER W/DUCT RING	—	—	—	—
10	EA	33202	12B10D 10IN RD DAMPER W/DUCT RING	—	—	—	—
10	EA	33203	12B12D 12IN RD DAMPER W/DUCT RING	—	—	—	—
10	EA	33204	12B14D 14IN RD DAMPER W/DUCT RING	—	—	—	—



## Series 11 Ceiling Diffuser Installation Duct Rings

- Galvanized steel construction.
- For use with Series 16 ceiling diffuser.
- Allows quick installation when no damper used.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
10	EA	33205	1106DR 6IN DUCT RING	—	—	—	—
10	EA	33206	1108DR 8IN DUCT RING	—	—	—	—
10	EA	33207	1110DR 10IN DUCT RING	—	—	—	—
10	EA	33208	1112DR 12IN DUCT RING	—	—	—	—
10	EA	33209	1114DR 14IN DUCT RING	—	—	—	—



## Series 28 Floor Supply Registers



- Steel construction
- Opposed blade damper
- Rolled face
- Autumn brown or white finish
- Reinforced

Size	Free Area Sq. In.	Face Velocity	300	400	500	600	700	800	900	1000
2-1/4 x 10	14	CFM	29	38	48	58	68	77	87	97
		PL	.001	.009	.017	.026	.035	.045	.062	.077
		Throw (Ft.)	2	3	3.5	4	4.5	5	6	6.5
		Spread	3.5	4.5	5	6.5	7.5	8.5	10	11
2-1/4 x 12	17	CFM	35	47	59	70	82	94	106	118
		PL	.001	.009	.018	.027	.037	.052	.66	.082
		Throw (Ft.)	2	3	3.5	4	4.5	5.5	6	7
		Spread	3.5	5	6	7	8	10	11	12
2-1/4 x 14	19	CFM	39	52	65	79	92	105	118	131
		PL	.002	.010	.020	.030	.039	.048	.057	.067
		Throw (Ft.)	2.5	3	3.5	4.5	5	6	6.5	7.5
		Spread	3.5	4.5	6	7	8.5	10	11.5	12.5
4 x 8	20	CFM	41	55	69	83	97	111	124	138
		PL	.001	.011	.020	.029	.038	.049	.060	.075
		Throw(Ft.)	2	2.5	3	3.5	4	4.5	5	6
		Spread	3	4	5	6	7	8	9	10
4 x 10	25	CFM	52	69	86	104	121	138	156	173
		PL	.003	.013	.021	.031	.038	.052	.066	.082
		Throw (Ft.)	2.5	3	4	4.5	5.5	6.5	7	8
		Spread	4	5.5	6.5	8.5	9.5	11	12.5	14
4 x 12	30	CFM	62	83	104	124	145	166	187	208
		PL	.004	.011	.019	.025	.037	.048	.062	.075
		Throw (Ft.)	2.5	3.5	4	5.5	6	7	8	8.5
		Spread	4	6	7.5	9	10.5	12	13.5	15.5
4 x 14	35	CFM	72	97	121	145	170	194	218	243
		PL	.004	.012	.019	.026	.037	.048	.062	.076
		Throw (Ft.)	3	4	5	6	7	7.5	8.5	9.5
		Spread	4.5	6.5	8.5	9.5	11.5	13	14	16.5

NOTE: PL = Total pressure loss in W.G.;

Spread = Horizontal distance of air pattern at 50 FPM;

Throw = Feet at 50 FPM; Face

Velocity = Average calculated velocity in FPM.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
24	EA	33005	28W0212 2 1/4X12 FLR SUPPLY	—	—	—	—
24	EA	33006	28W0210 2 1/4X10 FLR SUPPLY	—	—	—	—
24	EA	33003	28W0214 2 1/4X14 FLR SUPPLY	—	—	—	—
24	EA	33007	28W0410 4X10 FLR SUPPLY	—	—	—	—
24	EA	33008	28W0412 4X12 FLR SUPPLY	—	—	—	—
24	EA	33009	28W0414 4X14 FLR SUPPLY	—	—	—	—
24	EA	33013	28W0610 6X10 FLR SUPPLY	—	—	—	—
24	EA	33010	28B0210 2 1/4X10 FLR SUPPLY	—	—	—	—
24	EA	33012	28B0212 2 1/4X12 FLR SUPPLY	—	—	—	—
24	EA	33014	28B0214 2 1/4X14 FLR SUPPLY	—	—	—	—
24	EA	33577	28B0408 4X8 FLR SUPPLY	—	—	—	—
24	EA	33016	28B0410 4X10 FLR SUPPLY	—	—	—	—
24	EA	33018	28B0412 4X12 FLR SUPPLY	—	—	—	—
24	EA	33020	28B0414 4X14 FLR SUPPLY	—	—	—	—
24	EA	33015	28B0610 6X10 FLR SUPPLY	—	—	—	—
24	EA	33019	28B0612 6X12 FLR SUPPLY	—	—	—	—
24	EA	33002	28B0614 6X14 FLR SUPPLY	—	—	—	—



## Series F20 Floor Supply Registers

- Multi-shutter damper
- Steel construction
- Bar-faced
- Golden brown finish
- Extremely rigid
- Firm smooth surface



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
10	EA	33287	F20B0610 6X10 FLR SUPPLY	—	—	—	—
10	EA	33288	F20B0612 6X12 FLR SUPPLY	—	—	—	—
10	EA	33289	F20B0810 8X10 FLR SUPPLY	—	—	—	—
10	EA	33290	F20B0812 8X12 FLR SUPPLY	—	—	—	—
10	EA	33291	F20B0912 9X12 FLR SUPPLY	—	—	—	—
5	EA	33292	F20B1012 10X12 FLR SUPPLY	—	—	—	—
5	EA	33293	F20B1214 12X14 FLR SUPPLY	—	—	—	—



## Sunburst Baseboard Supply Diffusers

- Sunburst design
- 1/3" spaced fins
- Steel construction
- Lanced face
- Prestige White



Free Area Square In.	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
31.6	10	EA	33560	150W 15IN SUNBURST BB SUPPLY	—	—	—	—
38	10	EA	33561	180W 18IN SUNBURST BB SUPPLY	—	—	—	—
50.6	10	EA	33562	240W 24IN SUNBURST BB SUPPLY	—	—	—	—



## Series 51 Baseboard Diffusers

- Three bars per inch
- Single damper
- Lanced face
- White steel



Free Area Square In.	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
34	20	EA	33050	51W1006 10X6 SW/CEILING SUPPLY	—	—	—	—
42	20	EA	33051	51W1206 12X6 SW/CEILING SUPPLY	—	—	—	—
50	10	EA	33052	51W1406 14X6 SW/CEILING SUPPLY	—	—	—	—



## Series 54 Baseboard Supply Diffusers

- 1/3 inch spaced fins
- Single damper
- Positive volume control
- 7/8 inch extension
- Lanced face
- White finish



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
10	EA	33173	54W1006 10X6 BB SUPPLY	—	—	—	—
10	EA	33174	54W1206 12X6 BB SUPPLY	—	—	—	—
10	EA	33175	54W1406 14X6 BB SUPPLY	—	—	—	—



## Series TG32 Baseboard Supply Diffusers



- Steel construction
- Rolled face

Free Area Square In.	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
14	24	EA	33025	TG32W1003 10X2 1/4 TOE SPACE	—	—	—	—
17	24	EA	33004	TG32W1203 12X2 1/4 TOE SPACE	—	—	—	—
19	24	EA	33027	TG32W1403 14X2 1/4 TOE SPACE	—	—	—	—
14	24	EA	33021	TG32B1003 10X2 1/4 TOE SPACE	—	—	—	—
17	24	EA	33022	TG32B1203 12X2 1/4 TOE SPACE	—	—	—	—
19	24	EA	33023	TG32B1403 14X2 1/4 TOE SPACE	—	—	—	—



## Series G25 Sidewall Return Air Grilles



- 1/2 inch spaced fins
- Lanced face
- White steel

Free Area Square In.	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
21	20	EA	33057	G25W1004 10X4 SW RETURN	—	—	—	—
34	20	EA	33058	G25W1006 10X6 SW RETURN	—	—	—	—
63	10	EA	33060	G25W1010 10X10 SW RETURN	—	—	—	—
42	20	EA	33066	G25W1206 12X6 SW RETURN	—	—	—	—
59	20	EA	33068	G25W1208 12X8 SW RETURN	—	—	—	—
93	10	EA	33072	G25W1212 12X12 SW RETURN	—	—	—	—
175	10	EA	33071	G25W1220 12X20 SW RETURN	—	—	—	—
50	20	EA	33078	G25W1406 14X6 SW RETURN	—	—	—	—
70	20	EA	33080	G25W1408 14X8 SW RETURN	—	—	—	—
90	10	EA	33082	G25W1410 14X10 SW RETURN	—	—	—	—
111	10	EA	33084	G25W1412 14X12 SW RETURN	—	—	—	—
131	10	EA	33085	G25W1414 14X14 SW RETURN	—	—	—	—
180	10	EA	33088	G25W1420 14X20 SW RETURN	—	—	—	—
231	10	EA	33089	G25W1424 14X24 SW RETURN	—	—	—	—
73	10	EA	33090	G25W1608 16X8 SW RETURN	—	—	—	—
93	10	EA	33076	G25W1610 16X10 SW RETURN	—	—	—	—
156	10	EA	33098	G25W1616 16X16 SW RETURN	—	—	—	—
207	10	EA	33142	G25W1620 16X20 SW RETURN	—	—	—	—
216	10	EA	33108	G25W1818 18X18 SW RETURN	—	—	—	—
69	10	EA	33110	G25W2006 20X6 SW RETURN	—	—	—	—
97	10	EA	33111	G25W2008 20X8 SW RETURN	—	—	—	—
125	10	EA	33113	G25W2010 20X10 SW RETURN	—	—	—	—
152	10	EA	33114	G25W2012 20X12 SW RETURN	—	—	—	—
180	10	EA	33116	G25W2014 20X14 SW RETURN	—	—	—	—
207	10	EA	33118	G25W2016 20X16 SW RETURN	—	—	—	—
263	10	EA	33120	G25W2020 20X20 SW RETURN	—	—	—	—
85	10	EA	33124	G25W2406 24X6 SW RETURN	—	—	—	—
119	10	EA	33126	G25W2408 24X8 SW RETURN	—	—	—	—
153	10	EA	33127	G25W2410 24X10 SW RETURN	—	—	—	—
187	10	EA	33128	G25W2412 24X12 SW RETURN	—	—	—	—
221	10	EA	33129	G25W2414 24X14 SW RETURN	—	—	—	—
390	10	EA	33134	G25W2424 24X24 SW RETURN	—	—	—	—
106	10	EA	33138	G25W3006 30X6 SW RETURN	—	—	—	—
148	10	EA	33140	G25W3008 30X8 SW RETURN	—	—	—	—
191	10	EA	33141	G25W3010 30X10 SW RETURN	—	—	—	—
276	10	EA	33144	G25W3014 30X14 SW RETURN	—	—	—	—
544	10	EA	33143	G25W3024 30X24 SW RETURN	—	—	—	—





## Series G35 Sidewall Return Air Grilles

- 1/3 inch spaced fins
- Lanced face
- White steel

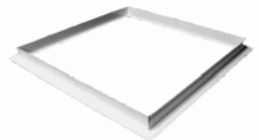


Free Area Square In.	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
85	12	EA	33230	G35W2406 24X6 SW RETURN	—	—	—	—
106	12	EA	33231	G35W3006 30X6 SW RETURN	—	—	—	—
131	20	EA	33253	G35W1404 14X4 SW RETURN	—	—	—	—
73	12	EA	33254	G35W1608 16X8 SW RETURN	—	—	—	—
27	20	EA	33255	G35W0806 8X6 SW RETURN	—	—	—	—
37	20	EA	33256	G35W0808 8X8 SW RETURN	—	—	—	—
21	20	EA	33257	G35W1004 10X4 SW RETURN	—	—	—	—
34	20	EA	33258	G35W1006 10X6 SW RETURN	—	—	—	—
48	20	EA	33259	G35W1008 10X8 SW RETURN	—	—	—	—
63	12	EA	33260	G35W1010 10X10 SW RETURN	—	—	—	—
148	12	EA	33262	G35W3008 30X8 SW RETURN	—	—	—	—
233	12	EA	33263	G35W3012 30X12 SW RETURN	—	—	—	—
276	12	EA	33264	G35W3014 30X14 SW RETURN	—	—	—	—
140	20	EA	33265	G35W1204 12X4 SW RETURN	—	—	—	—
42	20	EA	33266	G35W1206 12X6 SW RETURN	—	—	—	—
59	20	EA	33267	G35W1208 12X8 SW RETURN	—	—	—	—
254	12	EA	33268	G35W2416 24X16 SW RETURN	—	—	—	—
221	12	EA	33269	G35W2414 24X14 SW RETURN	—	—	—	—
187	12	EA	33270	G35W2412 24X12 SW RETURN	—	—	—	—
153	12	EA	33271	G35W2410 24X10 SW RETURN	—	—	—	—
93	12	EA	33272	G35W1212 12X12 SW RETURN	—	—	—	—
207	12	EA	33273	G35W2016 20X16 SW RETURN	—	—	—	—
263	12	EA	33274	G35W2020 20X20 SW RETURN	—	—	—	—
119	12	EA	33276	G35W2408 24X8 SW RETURN	—	—	—	—
180	12	EA	33277	G35W2014 20X14 SW RETURN	—	—	—	—
50	20	EA	33278	G35W1406 14X6 SW RETURN	—	—	—	—
97	12	EA	33279	G35W2008 20X8 SW RETURN	—	—	—	—
70	20	EA	33280	G35W1408 14X8 SW RETURN	—	—	—	—
90	12	EA	33281	G35W1410 14X10 SW RETURN	—	—	—	—
216	12	EA	33282	G35W1818 18X18 SW RETURN	—	—	—	—
140	12	EA	33283	G35W1812 18X12 SW RETURN	—	—	—	—
111	12	EA	33284	G35W1412 14X12 SW RETURN	—	—	—	—
131	12	EA	33285	G35W1414 14X14 SW RETURN	—	—	—	—
156	12	EA	33286	G35W1616 16X16 SW RETURN	—	—	—	—
125	12	EA	33323	G35W2010 20X10 SW RETURN	—	—	—	—



## Aluminum Surface Mount Frame

The Aluminum Surface Mount Frame is made of extruded aluminum and is versatile and sturdy. It allows for the installation of lay-in diffusers and grilles in a framed sheet rock opening. It can also be used for ceiling access.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	33029	ASMF2424 24X24 ALUMINUM SURFACE MOUNT FRAME	—



## Series FG2 Return Air Filter Grilles

- 1/2 inch spaced fins
- Removable face
- Lanced face
- Uses 1 inch filter (not included)
- Thumb latch for easy opening
- White finish



Free Area Square In.	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
202	1	EA	33167	FG2W1620 16X20 FILTER GRILLE	—	—	—	—
246	1	EA	33169	FG2W1425 14X25 FILTER GRILLE	—	—	—	—
254	1	EA	33170	FG2W1625 16X25 FILTER GRILLE	—	—	—	—
133	1	EA	33176	FG2W1414 14X14 FILTER GRILLE	—	—	—	—
199	1	EA	33177	FG2W1224 12X24 FILTER GRILLE	—	—	—	—
195	1	EA	33178	FG2W1420 14X20 FILTER GRILLE	—	—	—	—
72	5	EA	33179	FG2W1408 14X8 FILTER GRILLE	—	—	—	—
196	1	EA	33180	FG2W1616 16X16 FILTER GRILLE	—	—	—	—
212	1	EA	33181	FG2W2016 20X16 FILTER GRILLE	—	—	—	—
268	1	EA	33182	FG2W2020 20X20 FILTER GRILLE	—	—	—	—
225	1	EA	33183	FG2W2414 24X14 FILTER GRILLE	—	—	—	—
183	1	EA	33184	FG2W2014 20X14 FILTER GRILLE	—	—	—	—
339	1	EA	33185	FG2W2025 20X25 FILTER GRILLE	—	—	—	—
230	1	EA	33189	FG2W2514 25X14 FILTER GRILLE	—	—	—	—
265	1	EA	33190	FG2W2516 25X16 FILTER GRILLE	—	—	—	—
180	1	EA	33191	FG2W1220 12X20 FILTER GRILLE	—	—	—	—
336	1	EA	33192	FG2W2520 25X20 FILTER GRILLE	—	—	—	—



## Series F25 Bar-Faced Floor Return Grilles

- Steel construction
- Bar-faced
- Golden brown finish
- Extremely rigid
- Firm smooth surface



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
4	EA	33294	F25B0610 6X10 FLR GRILLE	—	—	—	—
4	EA	33295	F25B0612 6X12 FLR GRILLE	—	—	—	—
4	EA	33296	F25B0614 6X14 FLR GRILLE	—	—	—	—
4	EA	33297	F25B0624 6X24 FLR GRILLE	—	—	—	—
4	EA	33298	F25B0630 6X30 FLR GRILLE	—	—	—	—
4	EA	33299	F25B0810 8X10 FLR GRILLE	—	—	—	—
4	EA	33300	F25B0812 8X12 FLR GRILLE	—	—	—	—
4	EA	33301	F25B0814 8X14 FLR GRILLE	—	—	—	—
4	EA	33302	F25B0824 8X24 RTN GRILLE	—	—	—	—
4	EA	33303	F25B0830 8X30 FLR GRILLE	—	—	—	—
4	EA	33304	F25B1012 10X12 FLR GRILLE	—	—	—	—
4	EA	33305	F25B1214 12X14 FLR GRILLE	—	—	—	—
4	EA	33306	F25B1224 12X24 FLR GRILLE	—	—	—	—
4	EA	33307	F25B1416 14X16 FLR GRILLE	—	—	—	—
4	EA	33308	F25B1630 16X30 FLR GRILLE	—	—	—	—
4	EA	33309	F25B1030 10X30 FLR GRILLE	—	—	—	—
4	EA	33310	F25B1230 12X30 FLR GRILLE	—	—	—	—
4	EA	33311	F25B1024 10X24 FLR GRILLE	—	—	—	—



### Series BG21 Baseboard Return Grilles

- 1/2 inch spaced fins
- 7/8 inch extension
- Steel construction
- Lanced face
- White finish



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
24	EA	33148	BG21W1006 10X6 BB RETURN	—	—	—	—
24	EA	33149	BG21W1206 12X6 BB RETURN	—	—	—	—
24	EA	33150	BG21W1406 14X6 BB RETURN	—	—	—	—
24	EA	33151	BG21W1408 14X8 BB RETURN	—	—	—	—
5	EA	33152	BG21W2406 24X6 BB RETURN	—	—	—	—
5	EA	33153	BG21W2408 24X8 BB RETURN	—	—	—	—
5	EA	33154	BG21W3006 30X6 BB RETURN	—	—	—	—
5	EA	33155	BG21W3008 30X8 BB RETURN	—	—	—	—



### Series BEG31 Baseboard Return Grilles

- Steel construction
- 1/3 inch spaced fins
- Lanced face
- Extended base
- White finish

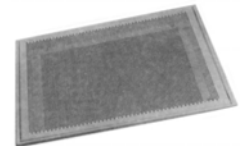


STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
24	EA	33156	BEG31W1206 12X6 BB RETURN	—	—	—	—
24	EA	33157	BEG31W1406 14X6 BB RETURN	—	—	—	—
10	EA	33158	BEG31W2406 24X6 BB RETURN	—	—	—	—
10	EA	33159	BEG31W3006 30X6 BB RETURN	—	—	—	—
10	EA	33160	BEG31W3008 30X8 BB RETURN	—	—	—	—



### Series T Commercial T-Bar Ceiling Return Grille

- Perforated face
- Stamped steel
- White finish



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
1	EA	33172	TP106 2X2 PERF R6 PLENUM FILTER GRILLE	—	—	—	—



### BHV Commercial T-Bar Diffusers High Volume

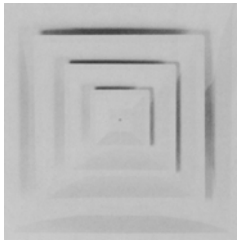
- Without insulation
- 3 cone drop design
- Provides high volume of air delivery
- 360° air diffusion
- Formed steel back panel
- Removable core
- Heavy gauge steel plenum
- White finish
- Seismic tabs



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
1	EA	33510	BHV06NI HIGH VOLUME DIFFUSER	—	—	—	—
1	EA	33511	BHV08NI HIGH VOLUME DIFFUSER	—	—	—	—
1	EA	33512	BHV10NI HIGH VOLUME DIFFUSER	—	—	—	—
1	EA	33513	BHV12NI HIGH VOLUME DIFFUSER	—	—	—	—
1	EA	33514	BHV14NI HIGH VOLUME DIFFUSER	—	—	—	—



## HVSA Commercial T-Bar Ceiling Supply Diffuser High Volume



- Available with R6 blanket.
- Provides high volume of air delivery.
- 360° air diffusion.
- Formed steel back panel.
- Removable core.
- Fiberglas insulation with vapor barrier foil to reduce condensation.
- Insulation blanket prescored to accommodate various collar sizes.
- Utilizes snap-in collar (5400 Series).
- Accepts butterfly damper (3700 Series) inserted in collar.
- Damper adjusted through diffuser face to allow proper air balancing.
- Utilizes steel plenum.
- White finish.
- Seismic tabs.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
1	EA	33502	HVSA 24X24 HIGH VOLUME DIFFUSER (4 WAY)	—	—	—	—



## RVML Commercial Sidewall/Ceiling Supply Diffusers Vertical



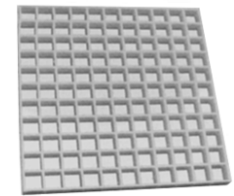
- Sidewall/ceiling
- Single deflection-steel frame
- Multi-shutter damper
- Adjustable steel rollform vertical face blades
- White finish

Free Area Square In.	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
21	24	EA	33313	RVMLW1004 10X4 COMM SW/CEILING DIFFUSER	—
26	24	EA	33315	RVMLW1204 12X4 COMM SW/CEILING DIFFUSER	—
45	24	EA	33318	RVMLW1406 14X6 COMM SW/CEILING DIFFUSER	—



## Egg Crate Plastic Grille Panel

- Blends perfectly into T-bar ceilings.
- Excellent as ceiling return air inlet.
- Lightweight, easy to install, easy to remove.
- May also be used for lighting.
- White polystyrene 1/2" open cell grid



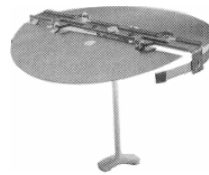
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
10	EA	30680	650-100 1/2X24X48 EGG CRATE	—	—	—	—



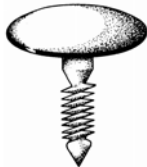
## Diffuser Accessories



**5400 Series Snap-in Collar Ring**  
Used with Surflo T-Bar Diffuser and HVSA "T" Bar Diffuser. The 5400 Series Ring is matched with the 3700 T-bar damper for airflow control.



**3700 Series T-bar Damper**  
The adjustable T-bar damper comes with a removable handle. When used with the 5400 Snap-In Collar Ring it can then be used with either the Surflo Diffuser or the HVSA Diffuser.



**PF175 Fastener**  
For 5400 collar with fiberglass plenum. Mushroom style.

### Collars and Dampers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 100-199	PC-4 200
12	EA	33520	3706 6IN T-BAR DAMPER	—	—	—	—
12	EA	33522	3708 8IN T-BAR DAMPER	—	—	—	—
10	EA	33524	3710 10IN T-BAR DAMPER	—	—	—	—
8	EA	33528	3714 14IN T-BAR DAMPER	—	—	—	—
12	EA	33530	5406 6IN T-BAR COLLAR	—	—	—	—
12	EA	33532	5408 8IN T-BAR COLLAR	—	—	—	—
10	EA	33534	5410 10IN T-BAR COLLAR	—	—	—	—
10	EA	33536	5412 12IN T-BAR COLLAR	—	—	—	—
6	EA	33579	CS106P 2X2 PERF T-BAR W/R6	—	—	—	—

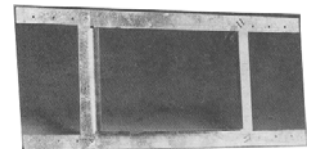
### Collar Fastener

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	BOX	33540	PF175 COLLAR FASTENER 100/BOX	—



## 924 Sidewall Stud Frame

- Horizontal arms provide offset positioning between 16" studding centers.
- All steel construction.
- Permits good plaster base right up to frame.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	10670	924 10X6 STUD FRAME	—	—
10	EA	10671	924 12X6 STUD FRAME	—	—
10	EA	10672	924 14X6 STUD FRAME	—	—
10	EA	10808	924 14X8 STUD FRAME	—	—
10	EA	10678	924 24X6 30 GA GLV STUD FRAME W/FLNG	—	—
10	EA	10674	924 30X6 STUD FRAME	—	—
10	EA	10795	924 30X8 STUD FRAME	—	—

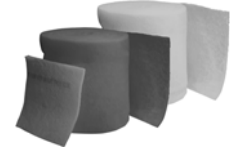


### 1 Ply Economy Panel Filter

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-11	PC-2 12-36	PC-3 37-143	PC-4 144
24	EA	48406	0246500741 13-1/2X16-3/4X1 IN SP1-PNL ECONOMY PANEL	—	—	—	—



### Polyester Pad and Roll Filters



#### Polyester Pads, 1"

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
25	EA	48395	0850102 16X25X1 P100 02 DRY WHITE POLY PAD	—
25	EA	48396	0850103 20X20X1 P100 03 DRY WHITE POLY PAD	—

#### Polyester Rolls, 1/2", 1"

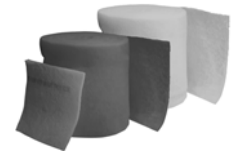
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-3	PC-2 4-9	PC-3 10
2	EA	48400	1600225 25X90X1 P100 R25 DRY WHITE RI	—	—	—
1	EA	48398	1600025 25X135X1/2 P50 R25 W/TACK WHITE RI	—	—	—
1	EA	48401	1600240 40X90X1 P100 R40 DRY WHITE RI	—	—	—

#### Polyester Pad with Scrim, 2"

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-11	PC-2 12-36	PC-3 37-143	PC-4 144
25	EA	48404	0850300024 9-1/2X22X2 P200S SP-PAD	—	—	—	—



### Polyester Roll Filters with Tack



**Sold in Full Cartons Only**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-3	PC-2 4-9	PC-3 10
1	EA	48399	1600220 20X90X1 P100 R20 BLUE/WHITE W/TACK	—	—	—
4	EA	48402	1700420 20X60X2 P200 R20 BLUE/WHITE W/TACK	—	—	—
1	EA	48403	1700425 25X60X2 P200 R25 BLUE/WHITE W/TACK	—	—	—



### Rigid Synthetic Pad Filters

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	48394	0810433 25X48X1 PERM SP1 PAD	—	—



### Coarse Fiber Pad and Roll Filters



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
50	EA	48302	5156002580 16X20X1 PBWL COARSE FIBER PAD	—
50	EA	48303	5156002581 16X25X1 PBWL COARSE FIBER PAD	—
50	EA	48304	5156002582 20X20X1 PBWL COARSE FIBER PAD	—
50	EA	48305	5156002583 20X25X1 PBWL COARSE FIBER PAD	—
1	EA	48397	1050111 25X30X1 P125 PERMALAST ROLL	—



# Fiberglass Flat Panel Filters



## Fiberglass 1 Inch Flat Panel Filters

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-11	PC-2 12-36	PC-3 37-143	PC-4 144
12	EA	48243	5038962159 6X12X1 F312-SP1 FIBERGLASS FILTER	—	—	—	—
12	EA	48248	5038978104 8X14X1 F312-SP1 FIBERGLASS FILTER	—	—	—	—
12	EA	48244	5038976451 8X16X1 F312-SP1 FIBERGLASS FILTER	—	—	—	—
12	EA	48221	5038901307 10X10X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48201	5038901020 10X16X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48215	5038901301 10X20X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48202	5038901022 10X25X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48203	5038901025 12X12X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48204	5038901026 12X16X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48228	5038901314 12X20X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48225	5038901311 12X24X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48229	5038901315 12X25X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48241	5038962113 12X27X1 F312-SP1 FIBERGLASS FILTER	—	—	—	—
12	EA	48205	5038901029 12X30X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48234	5038955882 13X16X1 F312-SP1 FIBERGLASS FILTER	—	—	—	—
12	EA	48206	5038901031 14X14X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48200	5038656628 14X18X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48226	5038901312 14X20X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48222	5038901308 14X24X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48220	5038901306 14X25X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48235	5038956711 14X28X1 F312-SP1 FIBERGLASS FILTER	—	—	—	—
12	EA	48236	5038956718 14X29X1 F312-SP1 FIBERGLASS FILTER	—	—	—	—
12	EA	48207	5038901033 14X30X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48227	5038901313 15X20X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48208	5038901035 15X30X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48209	5038901036 15X30-5/8X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48223	5038901309 16X16X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48237	5038957904 16X17-1/2X1 F312-SP1 FIBERGLASS FILTER	—	—	—	—
12	EA	48216	5038901302 16X20X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48217	5038901303 16X25X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48210	5038901040 16X30X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48238	5038958262 17-1/2X21X1 F312-SP1 FIBERGLASS FILTER	—	—	—	—
12	EA	48211	5038901042 18X20X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48212	5038901043 18X24X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48224	5038901310 18X25X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48242	5038962135 19X27X1 F312-SP1 FIBERGLASS FILTER	—	—	—	—
12	EA	48218	5038901304 20X20X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48245	5038978094 20X22X1 F312-SP1 FIBERGLASS FILTER	—	—	—	—
12	EA	48213	5038901045 20X22-1/4X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48219	5038901305 20X25X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48232	5038902001 20X30X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48239	5038959967 21-1/2X26X1 F312-SP1 FIBERGLASS FILTER	—	—	—	—
12	EA	48214	5038901047 22X22X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48246	5038978098 22X24X1 F312-SP1 FIBERGLASS FILTER	—	—	—	—
12	EA	48230	5038901316 24X24X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48231	5038901317 25X25X1 F312-STD1 FIBERGLASS FILTER	—	—	—	—
12	EA	48233	5038902093 25X30X1 F312-SP1 FIBERGLASS FILTER	—	—	—	—
12	EA	48240	5038961275 26X29-1/2X1 F312-SP1 FIBERGLASS FILTER	—	—	—	—
12	EA	48247	5038978099 30X30X1 F312-SP1 FIBERGLASS FILTER	—	—	—	—

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Continued from the Previous Page

**Fiberglass 2 Inch Flat Panel Filters**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-11	PC-2 12-36	PC-3 37-143	PC-4 144
12	EA	48255	5039003244 10X20X2 F312-STD2 FIBERGLASS FILTER	—	—	—	—
12	EA	48253	5039002006 12X24X2 F312-STD2 FIBERGLASS FILTER	—	—	—	—
12	EA	48256	5039003245 14X20X2 F312-STD2 FIBERGLASS FILTER	—	—	—	—
12	EA	48257	5039003247 15X20X2 F312-STD2 FIBERGLASS FILTER	—	—	—	—
12	EA	48249	5039002002 16X20X2 F312-STD2 FIBERGLASS FILTER	—	—	—	—
12	EA	48258	5039003249 16X24X2 F312-STD2 FIBERGLASS FILTER	—	—	—	—
12	EA	48250	5039002003 16X25X2 F312-STD2 FIBERGLASS FILTER	—	—	—	—
12	EA	48262	5039067667 18X24X2 F312-STD2 FIBERGLASS FILTER	—	—	—	—
12	EA	48251	5039002004 20X20X2 F312-STD2 FIBERGLASS FILTER	—	—	—	—
12	EA	48259	5039003250 20X24X2 F312-STD2 FIBERGLASS FILTER	—	—	—	—
12	EA	48252	5039002005 20X25X2 F312-STD2 FIBERGLASS FILTER	—	—	—	—
12	EA	48254	5039002007 24X24X2 F312-STD2 FIBERGLASS FILTER	—	—	—	—
12	EA	48260	5039003251 25X25X2 F312-STD2 FIBERGLASS FILTER	—	—	—	—

**Purolator** Polyester Flat Panel Filters  
Air Filtration



**Polyester 1 Inch Flat Panel Filters**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-11	PC-2 12-36	PC-3 37-143	PC-4 144
12	EA	48268	5039701501 10X20X1 P312-STD1 POLYESTER FILTER	—	—	—	—
12	EA	48263	5039450102 10X25X1 P312 POLYESTER FILTER	—	—	—	—
12	EA	48279	5039701514 12X20X1 P312-STD1 POLYESTER FILTER	—	—	—	—
12	EA	48276	5039701511 12X24X1 P312-STD1 POLYESTER FILTER	—	—	—	—
12	EA	48280	5039701515 12X25X1 P312-STD1 POLYESTER FILTER	—	—	—	—
12	EA	48277	5039701512 14X20X1 P312-STD1 POLYESTER FILTER	—	—	—	—
12	EA	48273	5039701506 14X25X1 P312-STD1 POLYESTER FILTER	—	—	—	—
12	EA	48278	5039701513 15X20X1 P312-STD1 POLYESTER FILTER	—	—	—	—
12	EA	48274	5039701509 16X16X1 P312-STD1 POLYESTER FILTER	—	—	—	—
12	EA	48269	5039701502 16X20X1 P312-STD1 POLYESTER FILTER	—	—	—	—
12	EA	48270	5039701503 16X25X1 P312-STD1 POLYESTER FILTER	—	—	—	—
12	EA	48275	5039701510 18X25X1 P312-STD1 POLYESTER FILTER	—	—	—	—
12	EA	48271	5039701504 20X20X1 P312-STD1 POLYESTER FILTER	—	—	—	—
12	EA	48264	5039451372 20X22X1 P312 POLYESTER FILTER	—	—	—	—
12	EA	48272	5039701505 20X25X1 P312-STD1 POLYESTER FILTER	—	—	—	—
12	EA	48282	5039701516 24X24X1 P312-STD1 POLYESTER FILTER	—	—	—	—
12	EA	48281	5039701517 25X25X1 P312-STD1 POLYESTER FILTER	—	—	—	—

**Polyester 2 Inch Flat Panel Filters**

12	EA	48283	5039803253 12X24X2 P312-STD2 POLYESTER FILTER	—	—	—	—
12	EA	48266	5039513369 12X25X2 P312 POLYESTER FILTER	—	—	—	—
12	EA	48284	5039803254 14X20X2 P312-STD2 POLYESTER FILTER	—	—	—	—
12	EA	48285	5039803255 14X25X2 P312-STD2 POLYESTER FILTER	—	—	—	—
12	EA	48294	5039803331 15X20X2 P312-STD2 POLYESTER FILTER	—	—	—	—
12	EA	48286	5039803256 16X16X2 P312-STD2 POLYESTER FILTER	—	—	—	—
12	EA	48287	5039803257 16X20X2 P312-STD2 POLYESTER FILTER	—	—	—	—
12	EA	48267	5039561546 16X22X2 P312 POLYESTER FILTER	—	—	—	—
12	EA	48288	5039803259 16X25X2 P312-STD2 POLYESTER FILTER	—	—	—	—
12	EA	48289	5039803260 18X24X2 P312-STD2 POLYESTER FILTER	—	—	—	—
12	EA	48265	5039508754 18X25X2 P312 POLYESTER FILTER	—	—	—	—
12	EA	48290	5039803261 20X20X2 P312-STD2 POLYESTER FILTER	—	—	—	—
12	EA	48291	5039803263 20X25X2 P312-STD2 POLYESTER FILTER	—	—	—	—
12	EA	48292	5039803264 24X24X2 P312-STD2 POLYESTER FILTER	—	—	—	—
12	EA	48293	5039803265 25X25X2 P312-STD2 POLYESTER FILTER	—	—	—	—





## MERV 8 Pleated Filters

### MERV 8 Pleated 1 Inch Filters

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-11	PC-2 12-36	PC-3 37-143	PC-4 144
12	EA	48311	5251004770 10X20X1 KP-STD1-001 KEY PLEAT MERV8	—	—	—	—
12	EA	48312	5251004776 12X20X1 KP-STD1-2001 KEY PLEAT MERV8	—	—	—	—
12	EA	48326	5251083881 12X24X1 KP-STD1-2401 KEY PLEAT MERV8	—	—	—	—
12	EA	48313	5251004777 14X20X1 KP-STD1-4001 KEY PLEAT MERV8	—	—	—	—
12	EA	48320	5251070884 14X25X1 KP-STD1-4501 KEY PLEAT MERV8	—	—	—	—
12	EA	48318	5251021496 15X20X1 KP-STD1-5001 KEY PLEAT MERV8	—	—	—	—
12	EA	48314	5251004858 16X20X1 KP-STD1-6001 KEY PLEAT MERV8	—	—	—	—
12	EA	48317	5251021132 16X24X1 KP-STD1-6401 KEY PLEAT MERV8	—	—	—	—
12	EA	48323	5251074025 16X25X1 KP-STD1-6501 KEY PLEAT MERV8	—	—	—	—
12	EA	48321	5251072096 16X30X1 KP-STD1-6301 KEY PLEAT MERV8	—	—	—	—
12	EA	48322	5251072153 18X24X1 KP-STD1-8401 KEY PLEAT MERV8	—	—	—	—
12	EA	48316	5251007125 20X20X1 KP-STD1-0001 KEY PLEAT MERV8	—	—	—	—
12	EA	48315	5251005432 20X24X1 KP-STD1-0401 KEY PLEAT MERV8	—	—	—	—
12	EA	48325	5251083340 20X25X1 KP-STD1-0501 KEY PLEAT MERV8	—	—	—	—
12	EA	48324	5251079133 24X24X1 KP-STD1-4401 KEY PLEAT MERV8	—	—	—	—
12	EA	48319	5251021572 25X25X1 KP-STD1-5501 KEY PLEAT MERV8	—	—	—	—

### MERV 8 Pleated 2 Inch Filters

12	EA	48327	5251104782 10X20X2 KP-STD2-1002 KEY PLEAT MERV8	—	—	—	—
12	EA	48343	5251187795 12X20X2 KP-STD2-2002 KEY PLEAT MERV8	—	—	—	—
12	EA	48340	5251184990 12X24X2 KP-STD2-2402 KEY PLEAT MERV8	—	—	—	—
12	EA	48328	5251104783 14X20X2 KP-STD2-4002 KEY PLEAT MERV8	—	—	—	—
12	EA	48329	5251104785 14X25X2 KP-STD2-4502 KEY PLEAT MERV8	—	—	—	—
12	EA	48339	5251184831 16X16X2 KP-STD2-6602 KEY PLEAT MERV8	—	—	—	—
12	EA	48330	5251104789 16X20X2 KP-STD2-6002 KEY PLEAT MERV8	—	—	—	—
12	EA	48338	5251184484 16X24X2 KP-STD2-6402 KEY PLEAT MERV8	—	—	—	—
12	EA	48331	5251104790 16X25X2 KP-STD2-6502 KEY PLEAT MERV8	—	—	—	—
12	EA	48336	5251163527 18X20X2 KP-STD2-8002 KEY PLEAT MERV8	—	—	—	—
12	EA	48337	5251174862 18X24X2 KP-STD2-8002 KEY PLEAT MERV8	—	—	—	—
12	EA	48335	5251123101 20X20X2 KP-STD2-0002 KEY PLEAT MERV8	—	—	—	—
12	EA	48341	5251186262 20X24X2 KP-STD2-0402 KEY PLEAT MERV8	—	—	—	—
12	EA	48332	5251104791 20X25X2 KP-STD2-0502 KEY PLEAT MERV8	—	—	—	—
12	EA	48334	5251106261 20X30X2 KP-STD2-0302 KEY PLEAT MERV8	—	—	—	—
12	EA	48342	5251186773 24X24X2 KP-STD2-4402 KEY PLEAT MERV8	—	—	—	—
12	EA	48333	5251104795 25X25X2 KP-STD2-5502 KEY PLEAT MERV8	—	—	—	—



## MERV 8 Key Pleat High Efficiency 4 Inch Filters



### Key Pleat High Efficiency 2 Inch Filters

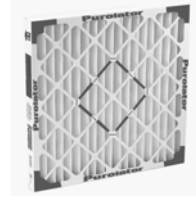
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-11	PC-2 12-36	PC-3 37-143	PC-4 144
12	EA	48347	5251474620 16X20X2 KPH-STD2-6002 KEY PLEAT MERV8	—	—	—	—
12	EA	48344	5251404825 16X25X2 KPH-STD2-6502 KEY PLEAT MERV8	—	—	—	—
12	EA	48346	5251421338 20X20X2 KPH-STD2-0002 KEY PLEAT MERV8	—	—	—	—
12	EA	48345	5251404831 20X25X2 KPH-STD2-0502 KEY PLEAT MERV8	—	—	—	—

### Key Pleat High Efficiency 4 Inch Filters

6	EA	48348	5251504832 16X20X4 KPH-STD4-6004 KEY PLEAT MERV8	—	—	—	—
6	EA	48351	5251525519 16X25X4 KPH-STD4-6504 KEY PLEAT MERV8	—	—	—	—
6	EA	48349	5251504836 20X20X4 KPH-STD4-0004 KEY PLEAT MERV8	—	—	—	—
6	EA	48350	5251504837 24X24X4 KPH-STD4-4404 KEY PLEAT MERV8	—	—	—	—



## MERV 8 Pleated High Efficiency Filters



### MERV 8 High Efficiency Pleated 1 Inch Filters

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-11	PC-2 12-36	PC-3 37-143	PC-4 144
12	EA	48352	5266881000 14X21X1 HE40 SP1-SNG MERV 8 PLEATED	—	—	—	—
12	EA	48364	5267325006 15X30X1 HE40-STD1 MERV 8 PLEATED	—	—	—	—
12	EA	48356	5267302008 16X20X1 HE40-STD1 MERV 8 PLEATED	—	—	—	—
12	EA	48357	5267302009 16X25X1 HE40-STD1 MERV 8 PLEATED	—	—	—	—
12	EA	48353	5266881644 17-1/2X17-1/2X1 HE40 SP1-SNG MERV 8 PLEATED	—	—	—	—
12	EA	48358	5267302010 20X20X1 HE40-STD1 MERV 8 PLEATED	—	—	—	—
12	EA	48363	5267320011 20X25X1 HE40-STD1 MERV 8 PLEATED	—	—	—	—
12	EA	48354	5266882922 25X28X1 HE40 SP1-SNG MERV 8 PLEATED	—	—	—	—

### MERV 8 High Efficiency Pleated 2 Inch Filters

12	EA	48376	5267442069 12X12X2 HE40-STD2 MERV 8 PLEATED	—	—	—	—
12	EA	48369	5267402032 12X24X2 HE40-STD2 MERV 8 PLEATED	—	—	—	—
12	EA	48373	5267402188 18X20X2 HE40-STD2 MERV 8 PLEATED	—	—	—	—
12	EA	48374	5267402193 20X24X2 HE40-STD2 MERV 8 PLEATED	—	—	—	—
12	EA	48370	5267402033 24X24X2 HE40-STD2 MERV 8 PLEATED	—	—	—	—

### MERV 8 High Efficiency Pleated 4 Inch Filters

6	EA	48378	5267502053 16X25X4 HE40-STD4 MERV 8 PLEATED	—	—	—	—
6	EA	48380	5267502065 18X24X4 HE40-STD4 MERV 8 PLEATED	—	—	—	—
6	EA	48379	5267502054 20X20X4 HE40-STD4 MERV 8 PLEATED	—	—	—	—



## Residential Air Cleaner Filters

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	48296	5096532661 16X25X3 P1200 MERV8 AB REPLACEMENT	—
5	EA	48297	5096532662 16X25X5 P25-1 MERV8 REPL FOR HW F25	—
5	EA	48298	5096532663 20X20X5 P25-3 MERV8 REPL FOR HW F25	—
3	EA	48300	5096578907 20X25X5 P5 MERV8 AB REPLACEMENT	—
5	EA	48299	5096532664 20X25X5 P25-2 MERV8 REPL FOR HW F25	—



## Micropleat Spaceguard Filter

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	48295	5093239415 MSPG2200 MICROPLEAT SPACEGUARD	—



## Rigid Box Filters

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	48389	5360702469 24X24X12 AC85	—
1	EA	48390	5360702481 24X24X12 AC95	—
1	EA	48392	5360702486 12X24X12 HAC95	—
1	EA	48391	5360702484 24X24X12 HAC95	—

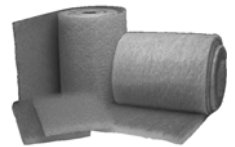


## Window A/C Filter

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	48301	5129915001 15X24X3/8 CYG FIBERGLASS A/C PAD	—	—



## Fiberglass Pads and Filter



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2-4	PC-3 5
50	EA	48306	5156002586 16X20X2 PBWL FIBERGLASS PAD	—	—	—
50	EA	48307	5156002587 16X25X2 PBWL FIBERGLASS PAD	—	—	—
50	EA	48308	5156002588 20X20X2 PWBL FIBERGLASS PAD	—	—	—
50	EA	48309	5156002589 20X25X2 PBWL FIBERGLASS PAD	—	—	—
50	EA	48310	5156002590 24X24X2 PBWL FIBERGLASS PAD	—	—	—
12	EA	48261	5039066793 20X25X2 F312-SP2 FIBERGLASS FILTER	—	—	—

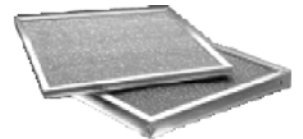


## Fiberglass and Synthetic Pocket Filters



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-3	PC-2 4-11	PC-3 12
8	EA	48382	5276402360 12X24X22 SP8505 FG POCKET 80-85%	—	—	—
4	EA	48385	5276402387 20X20X22 SP8505 FG POCKET 80-85%	—	—	—
4	EA	48387	5276444878 20X24X15 SP85503 FG POCKET 80-85%	—	—	—
4	EA	48388	5276476497 24X24X12 SP50S08 SERIES 55 CUBE SS 5PKT	—	—	—
4	EA	48386	5276410809 24X24X20 SP65S10 SYN POCKET 60-65%	—	—	—
4	EA	48384	5276402370 24X24X22 SP8508 FG POCKET 80-85%	—	—	—
4	EA	48405	5276402409 24X24X22 SP9508 UL2 FG POCKET 90-95%	—	—	—
4	EA	48383	5276402367 24X24X30 SP8508 FG POCKET 80-85%	—	—	—
2	EA	48381	5276402352 24X24X36 SP8510 FG POCKET 80-85%	—	—	—

## Aprilaire® EZ-Kleen Air Filters



- For room air conditioners
- Lightweight aluminum
- Odor removal
- Durable, corrosion-resistant
- Easy to clean and recharge
- Traps dust, dirt, lint, pollen

### 1" and 2" Filters

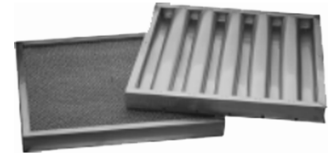
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
20	EA	41071	9806 10IN X 20IN X 1IN E-Z KLEEN	—	—
20	EA	41073	9804 16IN X 20IN X 1IN E-Z KLEEN	—	—
20	EA	41074	9803 16IN X 25IN X 1IN E-Z KLEEN	—	—
20	EA	41076	9802 20IN X 20IN X 1IN E-Z KLEEN	—	—
20	EA	41077	9801 20IN X 25IN X 1IN E-Z KLEEN	—	—
10	EA	41093	9154 16IN X 20IN X 2IN MV E-Z KLEEN	—	—
10	EA	41094	9153 16IN X 25IN X 2IN MV E-Z KLEEN	—	—
10	EA	41095	9152 20IN X 20IN X 2IN MV E-Z KLEEN	—	—
10	EA	41096	9151 20IN X 25IN X 2IN MV E-Z KLEEN	—	—

### Trim-to-Size

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
30	EA	41107	9200 15IN X 24IN X 1/4IN TRIM TRIM-TO-SIZE	—

## Aprilaire® Grease Filters

- Handle locks not included.
- Rated Velocity: 250 FPM to 600 FPM
- Optimum Velocity: 350 FPM



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	41121	934 16IN X 20IN X 2IN RP MESH GREASE FILTER	—
10	EA	41122	933 16IN X 25XIN X 2IN RP MESH GREASE FILTER	—
10	EA	41123	932 20IN X 20IN X 2IN RP MESH GREASE FILTER	—

## Aprilaire® Super Filter Coat

Maintain the high efficiency of your air filters by regular washing and by recoating with Super Filter Coat adhesive.

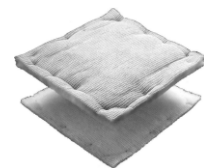


STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
20	EA	41188	412 10 OZ HANDI-KOTER SUPER FILTER COAT ADHESIVE	—	—

## FIBERBOND® Tri Stop Panel Filters

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-3	PC-2 4-11	PC-3 12
24	EA	41018	240001224 12X24X1-1/2 TRI STOP PANEL MERV 7	—	—	—
24	EA	41022	240001625 16X25X1-1/2 TRI STOP PANEL MERV 7	—	—	—
24	EA	41086	240090499 16X30X1-1/2 TRI STOP PANEL MERV 7	—	—	—
24	EA	41087	240002024 20X24X1-1/2 TRI STOP PANEL MERV 7	—	—	—
24	EA	41021	240002025 20X25X1-1/2 TRI STOP PANEL MERV 7	—	—	—
24	EA	41088	240090699 20X30X1-1/2 TRI BLOCK PANEL MERV 7	—	—	—
24	EA	41023	240002424 24X24X1 TRI STOP PANEL MERV 7	—	—	—

## FIBERBOND® 1 Ply Economy Panel Filters



Sold in Full Cartons Only

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-11	PC-2 12-36	PC-3 37-143	PC-4 144
36	EA	40938	250001224 12X24X1 POLY PANEL MERV 7	—	—	—	—
6	EA	40934	250001418-1064 14X18X1 POLY PANEL MERV 7	—	—	—	—
36	EA	40953	250001616 16X16X1 POLY PANEL MERV 7	—	—	—	—
36	EA	40943	250001620 16X20X1 POLY PANEL MERV 7	—	—	—	—
36	EA	40944	250001625 16X25X1 POLY PANEL MERV 7	—	—	—	—
36	EA	40945	250002020 20X20X1 POLY PANEL MERV 7	—	—	—	—
36	EA	40947	250002025 20X25X1 POLY PANEL MERV 7	—	—	—	—
36	EA	40948	250002424 24X24X1 POLY PANEL MERV 7	—	—	—	—

## FIBERBOND® Polyester Pad and Roll Filters

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-11	PC-2 12-36	PC-3 37-143
36	EA	40908	102020025 20X25X1 POLYESTER PAD	—	—	—
1	EA	41011	FM50 60X135X1/2 POLYESTER	—	—	—

**FIBERBOND** MERV 7 Pleated Filters



**MERV 7 Pleated 2 Inch Filters**

**Sold in Full Cartons Only**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-11	PC-2 12-36	PC-3 37-143	PC-4 144
12	EA	40839	KLEEN PLEAT GOLD 16X20X2 PLEATED 40% EFF	—	—	—	—
12	EA	40840	KLEEN PLEAT GOLD 16X25X2 PLEATED 40% EFF	—	—	—	—
12	EA	40841	KLEEN PLEAT GOLD 20X20X2 PLEATED 40% EFF	—	—	—	—
12	EA	40842	KLEEN PLEAT GOLD 20X25X2 PLEATED 40% EFF	—	—	—	—
12	EA	40843	KLEEN PLEAT GOLD 24X24X2 PLEATED 40% EFF	—	—	—	—
12	EA	40902	KLEEN PLEAT GOLD 18X24X2 PLEATED 40% EFF	—	—	—	—

**MERV 7 Pleated 4 Inch Filters**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-3 CTNS	PC-2 4-11 CTNS	PC-3 12 CTNS
8	EA	40845	KLEEN PLEAT GOLD 12X24X4 PLEATED 40% EFF	—	—	—
6	EA	40846	KLEEN PLEAT GOLD 16X20X4 PLEATED 40% EFF	—	—	—
6	EA	40849	KLEEN PLEAT GOLD 20X25X4 PLEATED 40% EFF	—	—	—
6	EA	40850	KLEEN PLEAT GOLD 24X24X4 PLEATED 40% EFF	—	—	—

**FIBERBOND** Foam Service Roll Filter

**Sold in Full Cartons Only**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-3	PC-2 4-9	PC-3 10
1	EA	40864	MEDIA 114403 24IN X 25FT X 1/4IN THICK FOAM	—	—	—

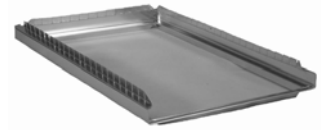
**FIBERBOND** Glass Auto Roll Filter



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-3	PC-2 4
1	EA	40780	2500.1044 44-3/4"X65X2 AUTO RL W/ SCRIM	—	—



## 1300 1" Filter Racks



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
20	EA	11698	1300 16X24X1 FILTER RACK - SCREW TYPE	—	—
20	EA	11583	1300 16X25X1 FILTER RACK - SCREW TYPE	—	—
12	EA	11585	1300 16X25X1 GALV FILTER FRAME W/DOOR	—	—
6	EA	11697	1300 16X25X1 FILTER RACK W/TAB	—	—
20	EA	11576	1300 20X16X1 FILTER RACK - SCREW TYPE	—	—
6	EA	11590	1300 20X16X1 GLV FILTER RACK	—	—
12	EA	11582	1300 20X16X1 FILTER FRAME W/DOOR	—	—
12	EA	11581	1300 20X20X1 FILTER RACK W/DOOR	—	—
20	EA	11584	1300 20X25X1 FILTER RACK - SCREW TYPE	—	—
12	EA	11593	1300 25X20X1 GALV FILTER FRAME W/DOOR	—	—



## 1300 4" Filter Rack



A simple filter system designed to accept a 4 inch deep pleated filter and to be installed on the return air duct.

The 4 inch pleated filter has 7 square feet of effective filter media; this large surface area provides more efficient filtering than 1 inch or 2 inch throw away filters and the useful life of the 1300 is 3 to 4 times that of throwaway filters.

Average efficiency: 25 to 30% dust retention.

Average arrestance: 90–93%.

UL listed class 2 filter.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
5	EA	11591	1300 25X16X4 GLV FILTER RACK CTND	—	—
5	EA	11592	1300 25X16X4 GLV FILTER RACK W/FILTER	—	—



## Tri-Filter Frame



- Use 1", 2" or 4" standard filter.
- Use 4" filter in combination with 1" charcoal filter.
- Snap on top cover for easy service and right or left mounting.
- Smooth polyethylene filter glides.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
1	EA	11594	1300 25X16 TRI FILTER FRAME	—	—

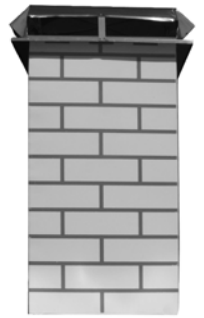
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# **Group 4 Installation and Service Supplies**

## Group 4 Installation and Service Supplies

Chimney and Venting.....	4 - 1
Pipe and Fittings/Copper.....	4 - 12
Pipe and Fittings/Brass.....	4 - 20
Pipe and Fittings/Insulation.....	4 - 25
Pipe and Fittings/Gas.....	4 - 28
Pipe and Fittings/Black.....	4 - 31
Pipe and Fittings/Galvanized.....	4 - 37
Cast Iron Fittings.....	4 - 38
Solder/Flux/Accessories.....	4 - 39
Access and Piercing Valves.....	4 - 45
Pipe and Fittings/PVC.....	4 - 50
Installation Essentials.....	4 - 56
Duct Insulation and Supplies.....	4 - 66
Fasteners and Hangers.....	4 - 72
Sealant, Cement, and Tape.....	4 - 83
Electrical.....	4 - 90
Jobsite Extras.....	4 - 100

**AIRJET** Chimney Housing Kits  
Authorized Distributor



- High grade, polished, stainless steel, square top cap
- 4 side panels available in simulated red, tan, or white brick
- Galvanized 2-piece roof flashing
- 18" telescoping aluminum connector

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	33580	GHL36R 3 FT RED BRICK DECORATIVE CHIMNEY HOUSING KIT	—
1	EA	33581	GHL36T 3FT TAN BRICK DECORATIVE CHIMNEY HOUSING KIT	—
1	EA	33582	GHL36W 3FT WHITE BRICK DECORATIVE CHIMNEY HOUSING KIT	—
1	EA	33583	GHL48R 4FT RED BRICK DECORATIVE CHIMNEY HOUSING KIT	—
1	EA	33584	GHL48T 4FT TAN BRICK DECORATIVE CHIMNEY HOUSING KIT	—
1	EA	33585	GHL48W 4FT WHITE BRICK DECORATIVE CHIMNEY HOUSING KIT	—

**SELKIRK Flexi-Liner Chimney Liner**



Flexi-Liner tubes are the most flexible aluminum liners on the market. They have proven to be more resistant to tearing than other aluminum liners under the toughest conditions. These benefits have been achieved by the Flexi-Liner tubes incorporating an offset two ply seam, uniquely located on the shoulders of corrugations rather than in the valley of corrugations like other flex products.

Flexi-Liner is the most compact chimney downsizing kit on the market, utilizing a tube compression ratio of 5:1 on most sizes. There are no seams between corrugations—eliminating a potential weak spot seen in other systems. UL Listed  
 Lifetime Limited Warranty

**Relining Kits**

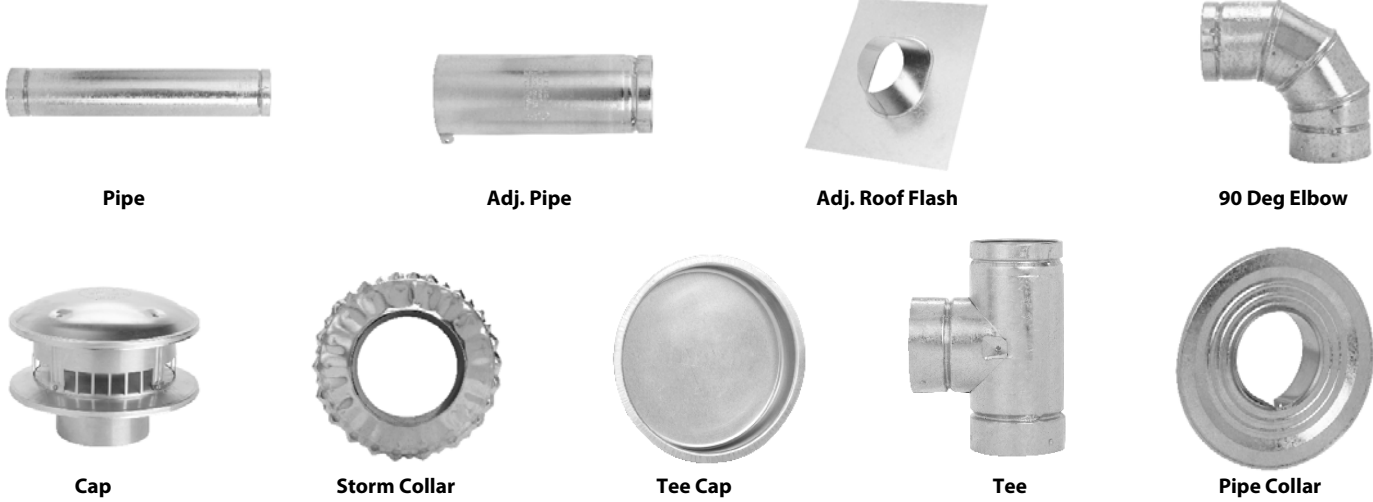
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	27800	AF25-04 4X25FT RELINING KIT	—	—
1	EA	27801	AF25-05 5X25FT RELINING KIT	—	—
1	EA	27802	AF25-06 6X25FT RELINING KIT	—	—
1	EA	27815	AF35-03 3X35FT RELINING KIT	—	—
1	EA	27816	AF35-04 4X35FT RELINING KIT	—	—
1	EA	27817	AF35-05 5X35FT RELINING KIT	—	—
1	EA	27818	AF35-06 6X35FT RELINING KIT	—	—

**Accessories**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	27835	AFE10-03 3X10 EXTENSION KIT	—
1	EA	27836	AFE10-04 4X10 EXTENSION KIT	—
1	EA	27837	AFE10-05 5X10 EXTENSION KIT	—
6	EA	27845	AF3-BVA 3IN B VENT ADAPTER	—
6	EA	27846	AF4-BVA 4IN B VENT ADAPTER	—
6	EA	27847	AF5-BVA 5IN B VENT ADAPTER	—
6	EA	27848	AF6-BVA 6IN B VENT ADAPTER	—
6	EA	28465	FX5-PD 5IN FLEX PULLER	—
6	EA	28466	FX6-PD 6IN FLEX PULLER	—



**SELKIRK. Type "B" Gas Vent**



Round and oval gas vent pipe and fittings for residential, commercial, and industrial applications. Snap together non-positional lock system.

- Die formed ends.
- Venting gas fired appliances, water heater, furnaces, stoves, etc.
- UL Listed.
- Lifetime Limited Warranty.

**RV Round Vent Pipe 3" through 8"**

Metalbestos RV round vent pipe is a listed Type "B" gas vent pipe. Its adjustable fittings and standard short lengths eliminate all cutting, fitting, and special engineering. An improved joint design provides for a rapid and secure connection in seconds. The use of our new LockTab™ feature gives installers the option of engaging this tab instead of using sheet metal screws.

**QC Round Vent Pipe 10" through 16"**

Metalbestos QC round vent pipe is a listed Type "B" gas vent pipe. For large residential, industrial, and commercial applications.

**3 Inch B Vent**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
6	EA	28298	3RV-4 3X4FT PIPE	—	—	—
6	EA	28299	3RV-GC 3IN PIPE COLLAR	—	—	—
6	EA	28471	3RV-GVS 3IN FIRESTOP SUPPORT	—	—	—
6	EA	28475	3RV-5 3X5FT PIPE	—	—	—
6	EA	28476	3RV-3 3X3FT PIPE	—	—	—
6	EA	28478	3RV-18 3X18IN PIPE	—	—	—
6	EA	28479	3RV-12 3X12IN PIPE	—	—	—
6	EA	28481	3RV-AJ12 3X12IN ADJ PIPE	—	—	—
6	EA	28483	3RV-DH 3IN DH CONN	—	—	—
6	EA	28484	3RV-AF 3IN ADJ ROOF FLASH	—	—	—
6	EA	28485	3RV-TF 3IN TALL CONE FLASH	—	—	—
6	EA	28486	3RV-SC 3IN STORM COLLAR	—	—	—
6	EA	28487	3RV-RT 3IN CAP	—	—	—
6	EA	28488	3RV-2 3X2FT PIPE	—	—	—
6	EA	28489	3RV-AF12 3IN STEEP ROOF FLASH	—	—	—
6	EA	28490	3RV-90 3IN 90 DEG ELBOW	—	—	—
6	EA	28491	3RV-45 3IN 46/60 ELBOW	—	—	—
6	EA	28492	3RV-WT 3IN WALL THIMBLE	—	—	—
6	EA	28493	3RV-TS 3IN TEE	—	—	—
6	EA	28496	3RV-I4 3X4 INCREASER	—	—	—
6	EA	28498	3RV-UAF 3IN FEMALE ADAPT	—	—	—
6	EA	28499	3RV-UAM 3IN MALE ADAPT	—	—	—
6	EA	29109	3RV-HWT 3IN HIGH WIND TOP	—	—	—

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**4 Inch B Vent**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
6	EA	28305	4RV-WS/B 4IN WALL STRAP	—	—	—
6	EA	28472	4RV-GVS 4IN FIRESTOP SUPPORT	—	—	—
6	EA	28480	4RV3-FY 4X3 WYE	—	—	—
6	EA	28495	4RV-6 4X6IN PIPE	—	—	—
6	EA	28500	4RV-5 4X5FT PIPE	—	—	—
6	EA	28501	4RV-4 4X4FT PIPE	—	—	—
6	EA	28502	4RV-3 4X3FT PIPE	—	—	—
6	EA	28503	4RV-2 4X2FT PIPE	—	—	—
6	EA	28504	4RV-18 4X18IN PIPE	—	—	—
6	EA	28505	4RV-12 4X12IN PIPE	—	—	—
6	EA	28506	4RV-AJ12 4X12IN ADJ PIPE	—	—	—
6	EA	28507	4RV-AF12 4IN STEEP ROOF FLASH	—	—	—
6	EA	28509	4RV-DH 4IN DH CONN	—	—	—
6	EA	28510	4RV-AF 4IN ADJ ROOF FLASH	—	—	—
6	EA	28511	4RV-TF 4IN TALL CONE FLASH	—	—	—
6	EA	28512	4RV-SC 4IN STORM COLLAR	—	—	—
6	EA	28513	4RV-RT 4IN CAP	—	—	—
6	EA	28514	4RV-EL90 4IN 90 DEG ELBOW	—	—	—
6	EA	28515	4RV-EL45/60 4IN 45/60 DEG ELBOW	—	—	—
6	EA	28516	4RV-WT 4IN WALL THIMBLE	—	—	—
6	EA	28517	4RV-TS 4IN TEE	—	—	—
6	EA	28518	4RV-TC 4IN TEE CAP	—	—	—
6	EA	28519	4RV-I6 4X6 INCREASER	—	—	—
6	EA	28520	4RV-GC 4IN PIPE COLLAR	—	—	—
6	EA	28521	4RV-I5 4X5 INCREASER	—	—	—
6	EA	28522	4RV-UAF 4IN FEMALE ADAPT	—	—	—
6	EA	28523	4RV-UAM 4IN MALE ADAPT	—	—	—
4	EA	28598	4RV-I7 4X7 INCREASER	—	—	—
6	EA	29110	4RV-HWT 4IN HIGH WIND TOP	—	—	—

**5 Inch B Vent**

6	EA	28306	5RV-WS/B 5IN WALL STRAP	—	—	—
6	EA	28473	5RV-GVS 5IN FIRESTOP SUPPORT	—	—	—
6	EA	28508	5RV4-3FY 5X4X3 WYE	—	—	—
6	EA	28525	5RV3-FY 5X5X3 WYE	—	—	—
6	EA	28526	5RV-5 5X5FT PIPE	—	—	—
6	EA	28527	5RV-4 5X4FT PIPE	—	—	—
6	EA	28528	5RV-3 5X3FT PIPE	—	—	—
6	EA	28529	5RV-2 5X2FT PIPE	—	—	—
6	EA	28530	5RV-18 5X18IN PIPE	—	—	—
6	EA	28531	5RV-12 5X12IN PIPE	—	—	—
6	EA	28532	5RV4-FY 5X4 WYE	—	—	—
6	EA	28533	5RV-AJ12 5X12IN ADJ PIPE	—	—	—
6	EA	28534	5RV-6 5X6IN PIPE	—	—	—
6	EA	28535	5RV-AF12 5IN STEEP ROOF FLASH	—	—	—
6	EA	28536	5RV-DH 5IN DH CONN	—	—	—
6	EA	28537	5RV-AF 5IN ADJ ROOF FLASH	—	—	—
6	EA	28538	5RV-TF 5IN TALL CONE FLASH	—	—	—
6	EA	28539	5RV-SC 5IN STORM COLLAR	—	—	—
6	EA	28540	5RV-RT 5IN CAP	—	—	—
6	EA	28541	5RV-EL90 5IN 90 DEG ELBOW	—	—	—
6	EA	28542	5RV-EL45/60 5IN 45/60 DEG ELBOW	—	—	—
6	EA	28543	5RV-WT 5IN WALL THIMBLE	—	—	—
6	EA	28544	5RV-TS 5IN TEE	—	—	—
6	EA	28545	5RV-T3 5X3 REDUCING TEE	—	—	—
6	EA	28546	5RV-TC 5IN TEE CAP	—	—	—
6	EA	28547	5RV-I6 5X6 INCREASER	—	—	—
4	EA	28549	5RV-I8 5X8 INCREASER	—	—	—
6	EA	28551	5RV-UAF 5IN FEMALE ADAPT	—	—	—
6	EA	28552	5RV-UAM 5IN MALE ADAPT	—	—	—
4	EA	28599	5RV-I7 5X7 INCREASER	—	—	—
6	EA	28600	5RV4-4FY 5X4X4 WYE	—	—	—
6	EA	29104	5RV-GC 5IN PIPE COLLAR	—	—	—
6	EA	29111	5RV-HWT 5IN HIGH WIND TOP	—	—	—

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**6 Inch B Vent**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
6	EA	28474	6RV-GVS 6IN FIRESTOP SUPPORT	—	—	—
6	EA	28482	6RV-3FY 6X3 WYE	—	—	—
6	EA	28548	6RV-4FY 6X6X4 WYE	—	—	—
4	EA	28553	6RV-5 6X5FT PIPE	—	—	—
6	EA	28554	6RV-4 6X4FT PIPE	—	—	—
6	EA	28555	6RV-3 6X3FT PIPE	—	—	—
6	EA	28556	6RV-2 6X2FT PIPE	—	—	—
6	EA	28557	6RV-18 6X18IN PIPE	—	—	—
6	EA	28558	6RV-12 6X12IN PIPE	—	—	—
6	EA	28559	6RV-6 6X6IN PIPE	—	—	—
6	EA	28560	6RV-AJ12 6X12IN ADJ PIPE	—	—	—
6	EA	28561	6RV-DH 6IN DH CONN	—	—	—
6	EA	28562	6RV-AF 6IN ADJ ROOF FLASH	—	—	—
6	EA	28563	6RV-TF 6IN TALL CONE FLASH	—	—	—
6	EA	28564	6RV-SC 6IN STORM COLLAR	—	—	—
6	EA	28565	6RV-RT 6IN CAP	—	—	—
6	EA	28566	6RV-EL90 6IN 90 DEG ELBOW	—	—	—
6	EA	28567	6RV-EL45/60 6IN 45/60 DEG ELBOW	—	—	—
6	EA	28568	6RV-WT 6IN WALL THIMBLE	—	—	—
6	EA	28569	6RV-TS 6IN TEE	—	—	—
6	EA	28571	6RV-T4 6X4 TEE	—	—	—
6	EA	28572	6RV-TC 6IN TEE CAP	—	—	—
4	EA	28573	6RV-I7 6X7 INCREASER	—	—	—
4	EA	28574	6RV-I8 6X8 INCREASER	—	—	—
6	EA	28575	6RV-GC 6IN PIPE COLLAR	—	—	—
6	EA	28576	6RV-UAF 6IN FEMALE ADAPT	—	—	—
6	EA	28577	6RV-UAM 6IN MALE ADAPT	—	—	—
6	EA	28578	6RV-AF12 6IN STEEP ROOF FLASH	—	—	—
4	EA	29112	6RV-HWT 6IN HIGH WIND TOP	—	—	—

**7 Inch B Vent**

4	EA	28579	7RV-5 7X5FT PIPE	—	—	—
4	EA	28580	7RV-3 7X3FT PIPE	—	—	—
4	EA	28581	7RV-4 7X4FT PIPE	—	—	—
4	EA	28582	7RV-AF12 7IN STEEP ROOF FLASH	—	—	—
4	EA	28583	7RV-18 7X18IN PIPE	—	—	—
4	EA	28584	7RV-12 7X12IN PIPE	—	—	—
4	EA	28585	7RV-2 7X24IN PIPE	—	—	—
4	EA	28586	7RV-AJ 7X12IN ADJ PIPE	—	—	—
4	EA	28587	7RV-DH 7IN DH CONN	—	—	—
4	EA	28588	7RV-AF 7IN ADJ ROOF FLASH	—	—	—
4	EA	28589	7RV-TF 7IN TALL CONE FLASH	—	—	—
4	EA	28590	7RV-SC 7IN STORM COLLAR	—	—	—
4	EA	28591	7RV-RT 7IN CAP	—	—	—
4	EA	28592	7RV-EL90 7IN 90 DEG ELBOW	—	—	—
4	EA	28593	7RV-EL45 7IN 45 DEG ELBOW	—	—	—
4	EA	28595	7RV-TS 7IN TEE	—	—	—
4	EA	28596	7RV-TC 7IN TEE CAP	—	—	—
4	EA	29100	7RV-UAM 7IN MALE ADAPT	—	—	—
4	EA	29101	7RV-UAF 7IN FEMALE ADAPT	—	—	—

Continued on the Following Page

## Chimney and Venting

Continued from the Previous Page

### 8 Inch B Vent

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
4	EA	28303	8RV-GVS 8IN SUPPORT ASSEMBLY	—	—	—
4	EA	28601	8RV-5 8X5FT PIPE	—	—	—
4	EA	28602	8RV-3 8X3FT PIPE	—	—	—
4	EA	28603	8RV-18 8X18IN PIPE	—	—	—
4	EA	28604	8RV-12 8X12IN PIPE	—	—	—
4	EA	28605	8RV-AJ 8X12IN ADJ PIPE	—	—	—
4	EA	28606	8RV-DH 8IN DH CONN	—	—	—
4	EA	28607	8RV-AF 8IN ADJ ROOF FLASH	—	—	—
4	EA	28608	8RV-TF 8IN TALL CONE FLASH	—	—	—
4	EA	28609	8RV-SC 8IN STORM COLLAR	—	—	—
4	EA	28610	8RV-RT 8IN CAP	—	—	—
4	EA	28611	8RV-EL90 8IN 90 DEG ELBOW	—	—	—
4	EA	28612	8RV-EL45 8IN 45 DEG ELBOW	—	—	—
6	EA	28613	8RV-WT 8IN WALL THIMBLE	—	—	—
4	EA	28614	8RV-TS 8IN TEE	—	—	—
4	EA	28615	8RV-TC 8IN TEE CAP	—	—	—
1	EA	28616	8RV-I10QC 8X10 INCREASER	—	—	—
4	EA	29102	8RV-UAM 8IN MALE ADAPT	—	—	—
4	EA	29103	8RV-UAF 8IN FEMALE ADAPT	—	—	—

### 10 Inch B Vent

2	EA	28617	10QC-30 10X30IN PIPE	—	—	—
2	EA	28618	10QC-18 10X18IN PIPE	—	—	—
1	EA	28619	10QC-DH 10IN DH CONN	—	—	—
1	EA	28620	10QC-AF 10IN ADJ ROOF FLASH	—	—	—
1	EA	28621	10QC-TF 10IN TALL CONE FLASH	—	—	—
1	EA	28622	10QC-SC 10IN STORM COLLAR	—	—	—
1	EA	28623	10QC-RT 10IN VENT TOP	—	—	—
2	EA	28624	10QC-45 10IN 45 DEG ELBOW	—	—	—
1	EA	28625	10QC-TS 10IN TEE	—	—	—
1	EA	28626	10QC-TC 10IN TEE CAP	—	—	—
2	EA	28700	10QC-AJ 10X18IN ADJ PIPE	—	—	—

### 12 Inch B Vent

2	EA	28627	12QC-30 12X30IN PIPE	—	—	—
2	EA	28628	12QC-18 12X18IN PIPE	—	—	—
1	EA	28629	12QC-DH 12IN DH CONN	—	—	—
1	EA	28630	12QC-AF 12IN ADJ ROOF FLASH	—	—	—
1	EA	28631	12QC-TF 12IN TALL CONE FLASH	—	—	—
1	EA	28632	12QC-SC 12IN STORM COLLAR	—	—	—
1	EA	28633	12QC-RT 12IN VENT TOP	—	—	—
2	EA	28634	12QC-45 12IN 45 DEG ELBOW	—	—	—
1	EA	28635	12QC-TS 12IN TEE	—	—	—
2	EA	28701	12QC-AJ 12X18IN ADJ PIPE	—	—	—

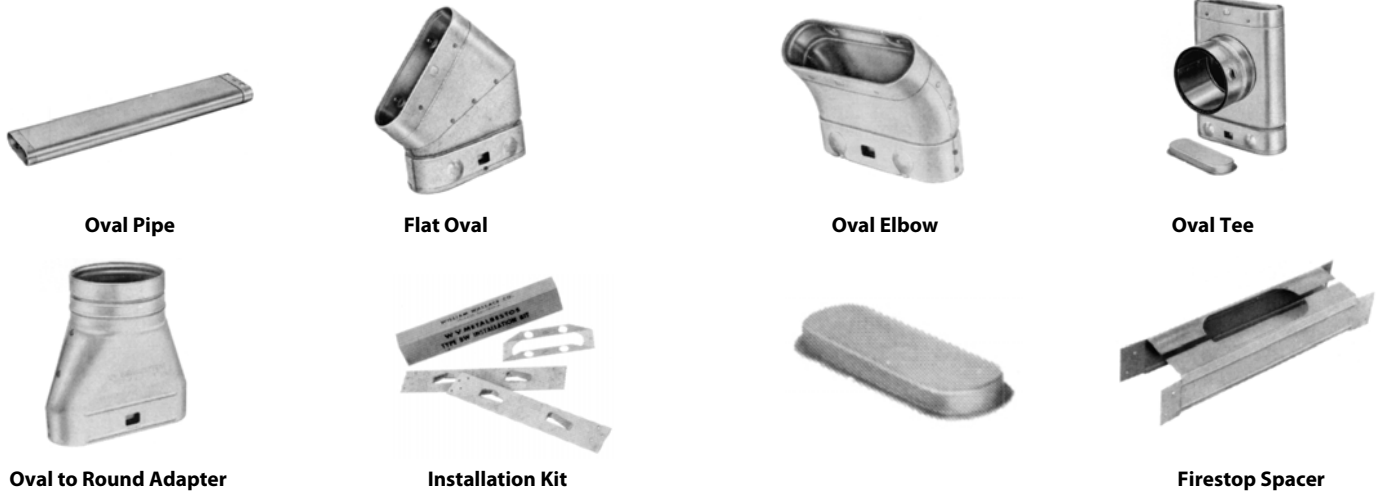
### 14 Inch B Vent

1	EA	28637	14QC-30 14X30IN PIPE	—	—	—
1	EA	28638	14QC-18 14X18IN PIPE	—	—	—
1	EA	28639	14QC-AF 14IN ADJ ROOF FLASH	—	—	—
1	EA	28640	14QC-TF 14IN TALL CONE FLASH	—	—	—
1	EA	28641	14QC-SC 14IN STORM COLLAR	—	—	—
1	EA	28642	14QC-RT 14IN VENT CAP	—	—	—
1	EA	28643	14QC-45 14IN 45 DEG ELBOW	—	—	—

### 16 Inch B Vent

1	EA	28645	16QC-30 16X30IN PIPE	—	—	—
1	EA	28646	16QC-18 16X18IN PIPE	—	—	—
1	EA	28647	16QC-AF 16IN ADJ ROOF FLASH	—	—	—
1	EA	28648	16QC-TF 16IN TALL CONE FLASH	—	—	—
1	EA	28649	16QC-SC 16IN STORM COLLAR	—	—	—
1	EA	28650	16QC-RT 16IN VENT TOP	—	—	—

**AMERIVENT. Type "B" Oval Gas Vent**



Round and oval gas vent pipe and fittings for residential, commercial, and industrial applications. AmeriVent Type B Gas Vent uses a double wall of metal pipe for insulation and safety. The inner pipe is made of reflecting aluminum and heats quickly, containing the warm flue gases inside. The airspace between the inner and outer pipe insulates against heat loss. The outer pipe is made of corrosion-resistant galvanized steel to ensure strength, safety, and durability.

- Snap together non-positional lock system.
- Venting gas fired appliances, water heater, furnaces, stove, etc.
- UL listed.
- Lifetime Limited Warranty.

**4 Inch Oval Pipe**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
6	EA	24020	4OV-12 4IN X 12IN OV PIPE	—	—	—
6	EA	24021	4OV-18 4IN X 18IN OV PIPE	—	—	—
6	EA	24022	4OV-36 4IN X 3FT OV PIPE	—	—	—
6	EA	24023	4OV-48 4IN X 4FT OV PIPE	—	—	—
6	EA	24024	4OV-60 4IN X 5FT OV PIPE	—	—	—
6	EA	24025	4OV-45F 4IN 45 DEG 45 DEG OV FLAT ELBOW	—	—	—
6	EA	24026	4OV-45S 4IN 45 DEG 45 DEG OV STD ELBOW	—	—	—
6	EA	24027	4OV-TS 4IN OV TO RD TEE	—	—	—
3	EA	24028	4OV-TC 4IN OV TEE CAP	—	—	—
6	EA	24032	4RV-OV4 4IN RD TO OV ADAPTOR	—	—	—
6	EA	24033	4OV-RV4 4IN OV TO RD ADAPTOR	—	—	—
1	EA	24034	4OV-BW 4IN INSTALLATION KIT	—	—	—

**5 Inch Oval Pipe**

4	EA	24050	5OV-60 5IN X 5FT OV PIPE	—	—	—
6	EA	24052	5OV-36 5IN X 3FT OV PIPE	—	—	—
6	EA	24054	5OV-18 5IN X 18IN OV PIPE	—	—	—
6	EA	24055	5OV-12 5IN X 12IN OV PIPE	—	—	—
6	EA	24058	5OV-45F 5IN 45 DEG 45 DEG OV FLAT ELBOW	—	—	—
6	EA	24059	5OV-45S 5IN 45 DEG 45 DEG OV STD ELBOW	—	—	—
6	EA	24060	5OV-TS 5IN OV TO RD TEE	—	—	—
3	EA	24065	5OV-TC 5IN OV TEE CAP	—	—	—
6	EA	24070	5RV-OV5 5IN RD TO OV ADAPTOR	—	—	—
6	EA	24071	5OV-RV5 5IN OV TO RD ADAPTOR	—	—	—
6	PR	24072	5OV-FS 5IN FIRESTOP SPACERS	—	—	—

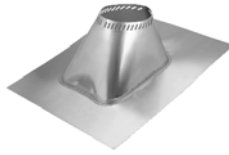
**6 Inch Oval Pipe**

4	EA	24080	6OV-36 6IN X 3FT OV PIPE	—	—	—
4	EA	24082	6OV-18 6IN X 18IN OV PIPE	—	—	—
4	EA	24083	6OV-12 6IN X 12IN OV PIPE	—	—	—
4	EA	24087	6OV-45S 6IN 45 DEG 45 DEG OV STD ELBOW	—	—	—
4	EA	24088	6OV-TS 6IN OV TO RD TEE	—	—	—
3	EA	24093	6OV-TC 6IN OV TEE CAP	—	—	—
4	EA	24098	6RV-OV6 6IN RD TO OV ADAPTOR	—	—	—
4	EA	24099	6OV-RV6 6IN OV TO RD ADAPTOR	—	—	—
4	PR	24100	6OV-FS 6IN FIRESTOP SPACERS	—	—	—

**SELKIRK** Type "A" All Fuel Chimney  
**PLATINUM** SERIES



Chimney Pipe



Flashing



Roof Support

- Tested up to 1700°.
- 300 Series stainless steel liner provides corrosion resistance.
- Heavy duty mirror finish 430 exterior.
- Water-tight continuous seam on inner and outer.
- Ideal for coal applications.
- Compatible with all Metalbestos chimney systems.
- UL listed.
- Complies with UL-103 Sixth Edition requirements.

**6 Inch**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
1	EA	29051	6UT-18 6X18IN CHIMNEY PIPE	—	—	—
2	EA	29053	6UT-9 6X9IN CHIMNEY PIPE	—	—	—
1	EA	29050	6UT-36 6X36IN CHIMNEY PIPE	—	—	—
1	EA	28702	6DSP-CPA 6IN ADAPTER	—	—	—
1	EA	29052	6T-CT 6IN CAP	—	—	—
1	KIT	29054	6T-EL30 KIT 6IN 30 DEG ELBOW KIT	—	—	—
1	EA	29055	6T-FSP 6IN CEIL SUPPORT	—	—	—
1	EA	29056	6T-RSP 6IN ROOF SUPPORT	—	—	—
4	EA	29057	6T-AF6 6IN FLASHING	—	—	—
1	EA	29058	6T-JS 6IN FIRESTOP ASSEMBLY	—	—	—
1	EA	29062	6T-IT 6IN TEE W/CAP	—	—	—
1	EA	29091	6T-IWT 6IN INSULATED WALL THIMBLE	—	—	—
4	EA	29155	5/6T-SC 6IN STORM COLLAR	—	—	—

**8 Inch**

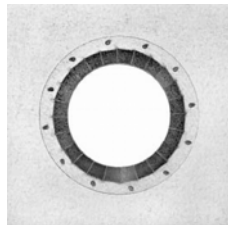
5	EA	29066	8UT-9 8X9IN CHIMNEY PIPE	—	—	—
1	EA	29063	8UT-18 8X18 CHIMNEY PIPE	—	—	—
1	EA	29064	8UT-36 8X36 CHIMNEY PIPE	—	—	—
1	EA	28703	8DSP-CPA 8IN ADAPTER	—	—	—
1	EA	29065	8T-CT 8IN CAP	—	—	—
1	EA	29068	8T-FSP 8IN CEIL SUPPORT	—	—	—
1	EA	29069	8T-RSP 8IN ROOF SUPPORT	—	—	—
4	EA	29070	8T-AF6 8IN FLASHING	—	—	—
1	EA	29071	8T-JS 8IN FIRESTOP ASSEMBLY	—	—	—
4	EA	29072	8T-WB 8IN WALL BRACKET	—	—	—
1	EA	29074	8T-IT 8IN TEE W/CAP	—	—	—
4	EA	29156	7/8T-SC 8IN STORM COLLAR	—	—	—

**10 Inch**

1	EA	29076	10UT-36 10X36IN PIPE	—	—	—
1	EA	29077	10S-CT 10IN CAP	—	—	—



**Sure-Grip B-Vent Hanger**



- The fastest, easiest way to support B-Vent where it penetrates floors and ceilings.
- No more time consuming cutting, bending, and fitting sheet metal to build vent supports.
- Faster vent installation: merely install the SureGrip plate and slip vent through from the bottom to the desired position.
- Available for 3" through 8" diameter B-Vent and 2" plastic pipe.
- 3" through 6" fits popular B-Vent brands.

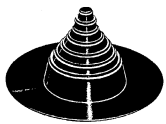
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	23750	3MVSP 3IN VENT-FAST HANGER	—	—
12	EA	23751	4MVSP 4IN VENT-FAST HANGER	—	—
24	EA	23752	5MVSP 5IN VENT-FAST HANGER	—	—
24	EA	23753	6MVSP 6IN VENT-FAST HANGER	—	—



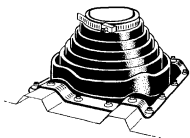
## Roof Penetration Products



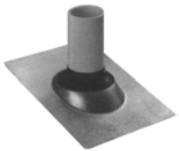
The **Retrofit Roof Penetration Seal** offers quick and easy installation, eliminating roof leaks at pipes and other roof penetrations without disconnecting the penetration. However, the Retrofit still allows for movement between the penetration and roof, while maintaining a perfect seal. The perfect seal is achieved with an integral tongue and groove, plus an overlapping flap, and is mechanically fastened with stainless steel hardware.



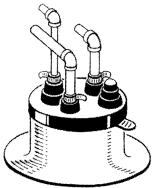
The **Pipe Boot** is an economical flashing designed for single pipe penetrations on single ply rubber roofs. The Pipe Boot's conically shaped steps will securely seal all pipes and its large double thick molded rib, at the top of each step, offers a supreme tear resistance and reinforcement as well as a cutting guide.



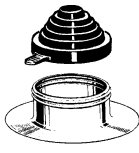
The **Deck-Mate Pipe Seal** is designed to work in conjunction with any configuration of corrugated deck. The Deck-Mate is engineered so that the aluminum, flanged base bends to any contour, deck irregularities, or roof pitches. The Deck-Mate seals watertight to the roof panel with silicone sealant and standard roofing fasteners.



**Roof (Shingle) Flashings** are designed to effectively seal round pipe penetrations, from 2" to 4", penetrating shingle roofing systems at up to 40° slopes. The seal is an elastomeric collar integrally locked into a rigid base that remains flat on the roof. Galvanized flashing base with elastomeric collar.



C126



C212

The **Alumi-Flashworks** with all hot applied roof systems and makes pitch pans obsolete. Due to the flexibility of the EPDM rubber caps, roof leaks are eliminated because penetrations are allowed to expand, contract, and vibrate independent of the vapor barrier. Available in C212 and C126 with rubber caps. C212 is multiple penetration and the C126 is single penetration.

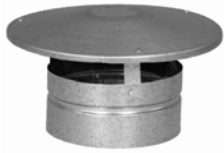


**Small Round Adapters** are solid 1" thick rubber which can be installed in any 2" actual diameter flexible flashing to allow the use of smaller pipe sizes. Small Round Adapter 13010 is for 3/8" OD line and 13030 is for 3/4" OD line. Perfect for use with air conditioning and refrigeration linesets through Portals Plus C212 Alumi-Flash.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
5	EA	57410	R004 1"-3" NEOPRENE RETROFT FLSH W/ACCESS	—	—
5	EA	57411	R005 3 1/2"-6" NEOPRENE RETROFIT FLSH W/ACCESS	—	—
10	EA	57420	B005 1"-6" NEOPRENE PIPE BOOT W/CLAMP	—	—
15	EA	57450	T003 1/4"-4" DM3 DECKMATE W/CLAMP	—	—
10	EA	57451	T005 4"-7" DM5 DECKMATE W/CLAMP	—	—
12	EA	57405	85019 2IN GALV ROOF FLASHING	—	—
12	EA	57406	85029 3IN GALV ROOF FLASHING	—	—
12	EA	57407	85039 4IN GALV ROOF FLASHING	—	—
5	EA	57401	C126 ALUMIFLASH W/CLAMP	—	—
5	EA	57400	C212 ALUMIFLASH W/CLAMPS	—	—
1	EA	57452	13010 3/8 OD LIQUID LINE SM RD ADPT F/ALUMA	—	—
1	EA	57453	13030 3/4 OD SUCTION LINE SM RD ADPT F/ALUMA	—	—



## 1090 Weather Cap



A low cost weathercap for round stack is designed to protect combustion flues from the elements. Designed for protective purposes only; does not incorporate any anti-down draft features. Design features such as one piece spun caps eliminate leak possibilities. Larger sizes available upon request.

Collar Dia. (In.)	Collar Height (In.)	Overall Width (In.)	Overall Height (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
4	3	8	5	12	EA	23101	1090 4IN GALV WEATHER CAP	—	—
5	3	9-3/4	5-1/2	12	EA	23102	1090 5IN GALV WEATHER CAP	—	—
6	3	9-3/4	6	12	EA	23103	1090 6IN GALV WEATHER CAP	—	—
7	3	11-1/4	6-1/8	12	EA	23104	1090 7IN GALV WEATHER CAP	—	—
8	3	12-7/8	7	12	EA	23105	1090 8IN GALV WEATHER CAP	—	—
10	3	16	8	6	EA	23107	1090 10IN GALV WEATHER CAP	—	—
12	4	19-1/4	10-3/4	6	EA	23108	1090 12IN GALV WEATHER CAP	—	—
14	4	23	12	6	EA	23109	1090 14IN GALV WEATHER CAP	—	—



## Versa-Cap Chimney Caps



- Widest range adjustable collar.
- No down draft—ends pilot light problems.
- Positive draft action.
- Clean modern design.
- Corrosion resistant aluminum.
- Bird proof.
- Clog proof from debris, snow, ice.
- Baffles stop rain and snow.
- Reduces your cap inventory by 70%.
- Aluminum models U.L. listed for Type B double wall gas vents.

Fits Opening (Inches)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
3-5	12	EA	22570	6-3050 VERSACAP CHIMNEY CAP	—	—
5-7	12	EA	22571	6-5070 VERSACAP CHIMNEY CAP	—	—
7-9	12	EA	22573	6-7090 VERSACAP CHIMNEY CAP	—	—
9-11	6	EA	22574	6-9011 VERSACAP CHIMNEY CAP	—	—





## 1092 ZIPP-Air Galvanized Gravity Ventilator



ZIPP-Air ventilators for round stack are an optimum air control device. Has engineered-in anti-down draft features. They can also be used for down draft control and positive control of products combustion in flue exhaust systems. The aspirating action of ZIPP-Air ventilators improves the discharge flow of contaminated air or gases. Assures positive flow regardless of wind direction. Larger sizes available upon request.

Collar Dia. (In.)	Collar Height (In.)	Overall Height (In.)	Overall Width (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
4	2	6	8-1/4	1	EA	22591	1092 4IN ZIPPAIR VENT	—	—
5	2	7	8-1/4	1	EA	22592	1092 5IN ZIPPAIR VENT	—	—
6	2	8	8-1/2	1	EA	22593	1092 6IN ZIPPAIR VENT	—	—
7	2	10	11-1/2	1	EA	22594	1092 7IN ZIPPAIR VENT	—	—
8	2	11-1/8	12-3/4	1	EA	22595	1092 8IN ZIPPAIR VENT	—	—
10	3	14-3/4	16-1/4	1	EA	22597	1092 10IN ZIPPAIR VENT	—	—
12	3	19	19	1	EA	22598	1092 12IN ZIPPAIR VENT	—	—



## 1095 Stationary Ventilator



Band type ventilators for round stack are low cost units that aid in the acceleration of exhaust from structures. Band design plus an internal storm band provides full weather protection. An ideal unit for exhausting fumes from industrial plants and agricultural buildings, where the possibility of down drafts is not an important factor. Larger sizes available upon request.

Collar Dia. (In.)	Overall Height (In.)	Overall Width (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	8	10	1	EA	22939	1095 6IN GALV STATIONARY VENT	—	—
10	10-3/4	17	1	EA	22941	1095 10IN GALV STATIONARY VENT	—	—

# DuraVent FasNSeal™ AL29-4C Stainless Steel Venting

Member of M&amp;G Group



Protech's FasNSeal venting system delivers a quick and easy installation with an instant, firm, and positive seal. FasNSeal combines the FasNSeal™ fastening method with an innovative, built-in sealing system. There is no need to clean vent surfaces before applying sealants and no need for curing time. The heating unit can be started as soon as the installation is complete.

- A welded butt seam is smooth inside and out, is vapor and water tight, and avoids application of sealants in the field.
- Built-in sealing system assures vapor and water tightness without field modifications and avoids condensate "puddling" in the joints.
- Built-in fastening system makes installation quick and easy.
- Can be used with LF24 Compact Unit Heaters found in the Allied Air Commercial Equipment section in Group 8 of this catalog.

### For a typical horizontal vent job order:

- 1 - Boiler Adapter (Choose adapter based on job requirements.)
- 2 - #28006 90° Elbow
- 1 - #28018 Wall Thimble
- 1 - #28009 Terminal Tee
- 1 - #28008 Horizontal Drain Tee
- 2 - #28017 Adjustable Adapter
- 4 - #28003 24" Pipe
- 4 - #28004 36" Pipe

### 3 Inch Pipe

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
8	EA	28000	300001 3IN X 6IN SST PIPE	—	—
8	EA	28001	300015 3IN X 12IN SST PIPE	—	—
8	EA	28002	300045 3IN X 18IN SST PIPE	—	—
8	EA	28003	300060 3IN X24IN SST PIPE	—	—
4	EA	28004	300075 3IN X 36IN SST PIPE	—	—

### 3 Inch Fittings

10	EA	28005	300130 3IN 45 DEG ELBOW	—	—
10	EA	28006	300160 3IN 90 DEG ELBOW	—	—
8	EA	28007	300186 3IN BIRD SCREEN	—	—
10	EA	28008	300236 3IN HORIZ DRAIN TEE	—	—
8	EA	28009	300311 3IN TERM TEE	—	—
6	EA	28012	300349 3IN WEIL CGI STARTER	—	—
6	EA	28015	300355 3IN WEIL GV ADAPT	—	—
6	EA	28016	300358 3IN FSA WEIL GV STARTER TEE	—	—
8	EA	28017	300250 3IN X 18IN ADJ ADAPTER	—	—
2	EA	28018	300280 3IN WALL THIMBLE	—	—
10	EA	28019	300325 3IN RAIN CAP	—	—
8	EA	28021	300359 3IN BUDERUS ADAPT	—	—
8	EA	28039	300500 3IN TERMINATION BOX	—	—
8	EA	28041	300700 3X4 TAPERED INCREASER	—	—
8	EA	28044	300824 3IN NORITZ/BUDERUS ADAPT	—	—

### 4 Inch Pipe

8	EA	28025	300002 4IN X 6IN SST PIPE	—	—
8	EA	28026	300016 4IN X 12IN SST PIPE	—	—
8	EA	28027	300046 4IN X 18IN SST PIPE	—	—
8	EA	28028	300061 4IN X24IN SST PIPE	—	—
4	EA	28029	300076 4IN X 36IN SST PIPE	—	—

### 4 Inch Fittings

10	EA	28030	300131 4IN 45 DEG ELBOW	—	—
10	EA	28031	300161 4IN 90 DEG ELBOW	—	—
8	EA	28032	300187 4IN BIRD SCREEN	—	—
10	EA	28033	300237 4IN HORIZ DRAIN TEE	—	—
8	EA	28034	300251 4IN X 18IN ADJ ADAPTER	—	—
2	EA	28035	300281 4IN WALL THIMBLE	—	—
10	EA	28036	300312 4IN TERM TEE	—	—
6	EA	28037	300326 4IN RAIN CAP	—	—
8	EA	28038	300825 4IN BUDERUS ADAPTER	—	—
8	EA	28042	300501 4IN TERMINATION BOX	—	—

NOTE: Do not use any other AL29-4C product with the FasNSeal venting.



## Copper Tube

- 20 ft. copper may be combined for quantity discount.
- 60 ft. coils may be combined for quantity discount.
- 50 and 100 ft. coils may be combined for quantity discount.

### ACR L-Tube 20 Ft. for Refrigeration and A/C (Nitrogen Charged)

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
500	FT	54099	1/4 NOM 3/8 OD ACR TUBE
500	FT	54100	3/8 NOM 1/2 OD ACR TUBE
500	FT	54101	1/2 NOM 5/8 OD ACR TUBE
200	FT	54102	5/8 NOM 3/4 OD ACR TUBE
200	FT	54103	3/4 NOM 7/8 OD ACR TUBE
100	FT	54104	1 NOM 1 1/8 OD ACR TUBE
100	FT	54105	1 1/4 NOM 1 3/8 OD ACR TUBE
100	FT	54106	1 1/2 NOM 1 5/8 OD ACR TUBE
60	FT	54107	2 NOM 2 1/8 OD ACR TUBE
40	FT	54108	2 1/2 NOM 2 5/8 OD ACR TUBE

### L-Tube (Hard) 20 Ft. for Water

500	FT	54111	1/2 NOM 5/8 OD L TUBE
200	FT	54112	3/4 NOM 7/8 OD L TUBE
100	FT	54113	1 NOM 1 1/8 OD L TUBE
100	FT	54114	1 1/4 NOM 1 3/8 OD L TUBE
100	FT	54115	1 1/2 NOM 1 5/8 OD L TUBE

### M-Tube (Hard) 20 Ft. for Hot Water Lines and Low Pressure

500	FT	54132	1/2 NOM 5/8 OD M TUBE
200	FT	54133	3/4 NOM 7/8 OD M TUBE
200	FT	54134	1 NOM 1 1/8 OD M TUBE
100	FT	54135	1 1/4 NOM 1 3/8 OD M TUBE
100	FT	54136	1 1/2 NOM 1 5/8 OD M TUBE
60	FT	54137	2 NOM 2 1/8 OD M TUBE

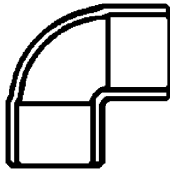
### L-Refrigeration Tube, 50/100 Ft. Coils

10	EA	54065	5/16 OD 50 FT REF TUBE COIL
10	EA	54066	1/4 OD 50 FT REF TUBE COIL
10	EA	54067	3/8 OD 50 FT REF TUBE COIL
5	EA	54068	1/2 OD 50 FT REF TUBE COIL
5	EA	54069	5/8 OD 50 FT REF TUBE COIL
3	EA	54070	3/4 OD 50 FT REF TUBE COIL
3	EA	54071	7/8 OD 50 FT REF TUBE COIL
10	EA	54072	3/16 OD 50 FT REF TUBE COIL
1	EA	54073	1 1/8 OD 50 FT REF TUBE COIL
1	EA	54075	3/16 OD 100 FT REF TUBE COIL

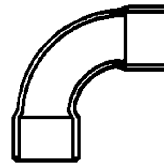


## Copper Sweat Fittings

Elbows: WE500, WE500R, WE500L



WE500



WE500L

### WE500 Copper to Copper, 90° Short Radius Elbows (Bagged)

Nominal Size	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1/2	50	EA	54307	WE500 1/2 NOM 5/8 OD S/R 90 DEG ELBOW BAG = 50 EA	—
3/4	25	EA	54308	WE500 3/4 NOM 7/8 OD S/R 90 DEG ELBOW BAG = 25 EA	—

### WE500 Copper to Copper, 90° Short Radius Elbows

Nominal Size	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
1/4	50	EA	54297	WE500 3/8 OD S/R 90 DEG ELBOW	—	—	—
3/8	50	EA	54298	WE500 1/2 OD S/R 90 DEG ELBOW	—	—	—
1/2	100	EA	54299	WE500 5/8 OD S/R 90 DEG ELBOW	—	—	—
5/8	50	EA	54300	WE500 3/4 OD S/R 90 DEG ELBOW	—	—	—
3/4	50	EA	54301	WE500 7/8 OD S/R 90 DEG ELBOW	—	—	—
1	25	EA	54302	WE500 1 1/8 OD S/R 90 DEG ELBOW	—	—	—
1-1/4	25	EA	54303	WE500 1 3/8 OD S/R 90 DEG ELBOW	—	—	—
1-1/2	10	EA	54304	WE500 1 5/8 OD S/R 90 DEG ELBOW	—	—	—
2	10	EA	54305	WE500 2 1/8 OD S/R 90 DEG ELBOW	—	—	—
2-1/2	5	EA	54306	WE500 2 5/8 OD S/R 90 DEG ELBOW	—	—	—
3	5	EA	54310	WE500 3 1/8 OD S/R 90 DEG ELBOW	—	—	—

### WE500R Copper to Copper, 90° Short Radius Reducing Elbows

3/8 x 1/4	50	EA	54269	WE500R 1/2X3/8 S/R 90 DEG ELBOW	—	—	—
1/2 x 3/8	50	EA	54294	WE500R 5/8X1/2 OD S/R 90 DEG ELBOW	—	—	—
3/4 x 1/2	10	EA	54271	WE500R 7/8X5/8 OD S/R 90 DEG ELBOW	—	—	—
3/4 x 5/8	50	EA	54270	WE500R 7/8X3/4 S/R 90 DEG ELBOW	—	—	—
1 x 3/4	25	EA	54272	WE500R 1 1/8X7/8 OD S/R 90 DEG ELBOW	—	—	—

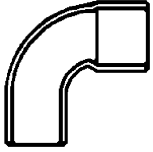
### WE500L Copper to Copper, 90° Long Radius Elbows

1/8	50	EA	54235	WE500L 1/4 OD L/R 90 DEG ELBOW	—	—	—
1/4	50	EA	54236	WE500L 3/8 OD L/R 90 DEG ELBOW	—	—	—
3/16	50	EA	54507	WE500L 5/16 OD L/R 90 DEG ELBOW	—	—	—
3/8	50	EA	54237	WE500L 1/2 OD L/R 90 DEG ELBOW	—	—	—
1/2	50	EA	54238	WE500L 5/8 OD L/R 90 DEG ELBOW	—	—	—
5/8	50	EA	54239	WE500L 3/4 OD L/R 90 DEG ELBOW	—	—	—
3/4	25	EA	54240	WE500L 7/8 OD L/R 90 DEG ELBOW	—	—	—
1	10	EA	54241	WE500L 1 1/8 OD L/R 90 DEG ELBOW	—	—	—
1-1/4	10	EA	54242	WE500L 1 3/8 OD L/R 90 DEG ELBOW	—	—	—
1-1/2	5	EA	54243	WE500L 1 5/8 OD L/R 90 DEG EL	—	—	—
2	5	EA	54244	WE500L 2 1/8 OD L/R 90 DEG EL	—	—	—

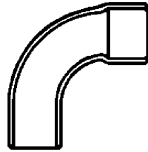


## Copper Sweat Fittings

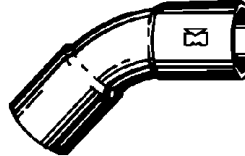
Elbows: WE503, WE503L, WE504, WE505



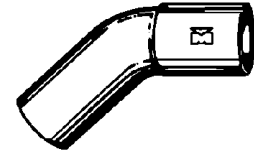
WE503



WE503L



WE504



WE505

### WE503 Fitting to Copper, 90° Short Radius Street Elbows (Bagged)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
25	EA	54324	WE503 7/8 OD S/R 90 DEG ST S/R 90 DEG ST BAG = 25 EA	—

### WE503 Fitting to Copper, 90° Short Radius Street Elbows

Nominal Size	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
1/4	50	EA	54313	WE503 3/8 OD S/R 90 DEG ST ELBOW	—	—	—
3/8	50	EA	54315	WE503 1/2 OD S/R 90 DEG ST ELBOW	—	—	—
1/2	50	EA	54316	WE503 5/8 OD S/R 90 DEG ST ELBOW	—	—	—
5/8	25	EA	54314	WE503 3/4 OD S/R 90 DEG ST ELBOW	—	—	—
3/4	25	EA	54317	WE503 3/4 NOM 7/8 OD S/R 90 DEG ST ELBOW	—	—	—
1	25	EA	54318	WE503 1 1/8 OD S/R 90 DEG ST ELBOW	—	—	—
1-1/4	25	EA	54319	WE503 1 3/8 OD S/R 90 DEG ST ELBOW	—	—	—
1-1/2	10	EA	54320	WE503 1 5/8 OD S/R 90 DEG ST ELBOW	—	—	—
2	10	EA	54321	WE503 2 1/8 OD S/R 90 DEG ST ELBOW	—	—	—

### WE503L Fitting to Copper, 90° Long Radius Street Elbows

1/4	50	EA	54281	WE503L 3/8 OD L/R 90 DEG ST ELBOW	—	—	—
3/8	50	EA	54282	WE503L 1/2 OD L/R 90 DEG ST ELBOW	—	—	—
1/2	50	EA	54283	WE503L 5/8 OD L/R 90 DEG ST ELBOW	—	—	—
5/8	25	EA	54284	WE503L 3/4 OD L/R 90 DEG ST ELBOW	—	—	—
3/4	25	EA	54285	WE503L 7/8 OD L/R 90 DEG ST ELBOW	—	—	—
1	10	EA	54286	WE503L 1 1/8 OD L/R 90 DEG ST ELBOW	—	—	—
1-1/4	10	EA	54287	WE503L 1 3/8 OD L/R 90 DEG ST ELBOW	—	—	—
1-1/2	5	EA	54288	WE503L 1 5/8 OD L/R 90 DEG ST ELBOW	—	—	—
2	5	EA	54289	WE503L 2 1/8 OD L/R 90 DEG ST ELBOW	—	—	—

### WE504 Copper to Copper, 45° Elbows

1/8	50	EA	54252	WE504 1/4 OD 45 DEG ELBOW	—	—	—
1/4	50	EA	54254	WE504 3/8 OD 45 DEG ELBOW	—	—	—
3/8	50	EA	54255	WE504 1/2 OD 45 DEG ELBOW	—	—	—
1/2	50	EA	54256	WE504 5/8 OD 45 DEG ELBOW	—	—	—
5/8	50	EA	54257	WE504 3/4 OD 45 DEG ELBOW	—	—	—
3/4	25	EA	54258	WE504 7/8 OD 45 DEG ELBOW	—	—	—
1	25	EA	54259	WE504 1 1/8 OD 45 DEG ELBOW	—	—	—
1-1/4	10	EA	54260	WE504 1 3/8 OD 45 DEG ELBOW	—	—	—
1-1/2	10	EA	54261	WE504 1 5/8 OD 45 DEG ELBOW	—	—	—
2	10	EA	54262	WE504 2 1/8 OD 45 DEG ELBOW	—	—	—

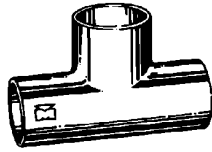
### WE505 Fitting to Copper, 45° Street Elbows

1/4	100	EA	54225	WE505 3/8 OD 45 DEG ST ELBOW	—	—	—
3/8	100	EA	54226	WE505 1/2 OD 45 DEG ST ELBOW	—	—	—
1/2	25	EA	54227	WE505 5/8 OD 45 DEG ST ELBOW	—	—	—
5/8	50	EA	54228	WE505 3/4 OD 45 DEG ST ELBOW	—	—	—
3/4	25	EA	54229	WE505 7/8 OD 45 DEG ST ELBOW	—	—	—
1	25	EA	54230	WE505 1 1/8 OD 45 DEG ST ELBOW	—	—	—
1-1/4	10	EA	54231	WE505 1 3/8 OD 45 DEG ST ELBOW	—	—	—
1-1/2	10	EA	54232	WE505 1 5/8 OD 45 DEG ST ELBOW	—	—	—
2	5	EA	54233	WE505 2 1/8 OD 45 DEG ST ELBOW	—	—	—
2-1/2	2	EA	54234	WE505 2 5/8 OD 45 DEG ST ELBOW	—	—	—



## Copper Sweat Fittings

Tees: WT600, WT600R



WT600



WT600R

### WT600 Copper to Copper to Copper Tees

Nominal Size	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
1/8	100	EA	54328	WT600 1/4 OD TEE	—	—	—
3/16	50	EA	54326	WT600 5/16 OD TEE	—	—	—
1/4	50	EA	54329	WT600 3/8 OD TEE	—	—	—
3/8	50	EA	54330	WT600 1/2 OD TEE	—	—	—
1/2	50	EA	54331	WT600 5/8 OD TEE	—	—	—
5/8	25	EA	54332	WT600 3/4 OD TEE	—	—	—
3/4	25	EA	54334	WT600 7/8 OD TEE	—	—	—
1	10	EA	54335	WT600 1 1/8 OD TEE	—	—	—
1-1/4	5	EA	54336	WT600 1 3/8 OD TEE	—	—	—
1-1/2	5	EA	54337	WT600 1 5/8 OD TEE	—	—	—
2	5	EA	54338	WT600 2 1/8 OD TEE	—	—	—

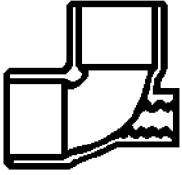
### WT600R Copper to Copper to Copper Reducing Tees

1/4 x 1/4 x 3/8	50	EA	54340	WT600R 3/8X3/8X1/2 OD TEE	—	—	—
3/8 x 3/8 x 1/8	50	EA	54360	WT600R 1/2X1/2X1/4 OD TEE	—	—	—
3/8 x 3/8 x 1/4	50	EA	54342	WT600R 1/2X1/2X3/8 OD TEE	—	—	—
1/2 x 1/4 x 1/4	50	EA	54343	WT600R 5/8X3/8X3/8 OD TEE	—	—	—
1/2 x 1/2 x 1/4	50	EA	54345	WT600R 5/8X5/8X3/8 OD TEE	—	—	—
1/2 x 1/2 x 3/8	50	EA	54344	WT600R 5/8X5/8X1/2 OD TEE	—	—	—
5/8 x 1/2 x 1/2	25	EA	54333	WT600R 3/4X5/8X5/8 OD TEE	—	—	—
5/8 x 5/8 x 3/8	25	EA	54346	WT600R 3/4X3/4X1/2 OD TEE	—	—	—
3/4 x 1/2 x 1/2	25	EA	54348	WT600R 7/8X5/8X5/8 OD TEE	—	—	—
3/4 x 3/4 x 1/2	25	EA	54349	WT600R 7/8X7/8X5/8 OD TEE	—	—	—
3/4 x 3/4 x 1	10	EA	54350	WT600R 7/8X7/8X1 1/8 OD TEE	—	—	—
1 x 3/4 x 3/4	10	EA	54351	WT600R 1 1/8X7/8X7/8 OD TEE	—	—	—
1 x 3/4 x 1	10	EA	54365	WT600R 1 1/8X7/8X1 1/8 OD TEE	—	—	—
1 x 1 x 1/2	10	EA	54352	WT600R 1 1/8X1 1/8X5/8 OD TEE	—	—	—
1 x 1 x 5/8	10	EA	54362	WT600R 1 1/8X1 1/8X3/4 OD TEE	—	—	—
1 x 1 x 3/4	10	EA	54353	WT600R 1 1/8X1 1/8X7/8 OD TEE	—	—	—
1-1/4 x 3/4 x 3/4	5	EA	54354	WT600R 1 3/8X7/8X7/8 OD TEE	—	—	—
1-1/4 x 1 x 3/4	5	EA	54355	WT600R 1 3/8X1 1/8X7/8 OD TEE	—	—	—
1-1/4 x 1 x 1	5	EA	54356	WT600R 1 3/8X1 1/8X1 1/8 OD TEE	—	—	—
1-1/4 x 1-1/4 x 1/2	5	EA	54357	WT600R 1 3/8X1 3/8X5/8 OD TEE	—	—	—
1-1/4 x 1-1/4 x 3/4	5	EA	54358	WT600R 1 3/8X1 3/8X7/8 OD TEE	—	—	—
1-1/4 x 1-1/4 x 1	5	EA	54359	WT600R 1 3/8X1 3/8X1 1/8 OD TEE	—	—	—
1-1/2 x 1-1/2 x 3/4	5	EA	54361	WT600R 1 5/8X1 5/8X7/8 OD TEE	—	—	—

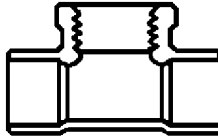


## Copper Sweat Fittings

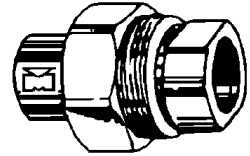
Tees and Unions: T301, T302R, WC407



T301



T302R



WC407

### T301 Copper to Copper FPT to Copper BB Vent Tees

Nominal Size	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
1/2 x 1/8 x 1/2	50	EA	54428	T301 5/8X1/8X5/8 OD BB TEE	—	—	—
3/4 x 1/8 x 3/4	25	EA	54429	T301 7/8X1/8X7/8 OD BB TEE	—	—	—
1 x 1/8 x 1	10	EA	54430	T301 1 1/8X1/8X1 1/8 OD BB TEE	—	—	—
1-1/4 x 1/8 x 1-1/4	10	EA	54431	T301 1 3/8X1/8X1 3/8 OD BB TEE	—	—	—

### T302R Copper to Copper FPT Tees

3/4 x 3/4 x 1/2	25	EA	54373	T302R 7/8ODX7/8ODX1/2FPT TEE	—	—	—
1 x 1 x 1/2	10	EA	54374	T302R 1 1/8X1 1/8 OD X 1/2FPT TEE	—	—	—

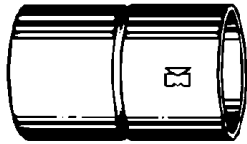
### WC407 Copper Unions

3/8	25	EA	54166	WC407 1/2 OD UNION	—	—	—
1/2	25	EA	54168	WC407 5/8 OD UNION	—	—	—
3/4	10	EA	54169	WC407 7/8 OD UNION	—	—	—
1	10	EA	54167	WC407 1 1/8 OD UNION	—	—	—
1-1/4	5	EA	54153	WC407 1 3/8 OD UNION	—	—	—



## Copper Sweat Fittings

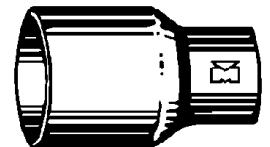
Couplings: WC400, WC400NS, WC400R



WC400



WC400NS



WC400R

### WC400 Copper to Copper Rolled Stop Couplings

Nominal Size	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
1/8	100	EA	54155	WC400 1/4 OD COUPLING	—	—	—
3/16	100	EA	54500	WC400S 5/16 OD COUPLING	—	—	—
1/4	50	EA	54156	WC400 3/8 OD COUPLING	—	—	—
3/8	50	EA	54157	WC400 1/2 OD COUPLING	—	—	—
1/2	100	EA	54158	WC400 5/8 OD COUPLING	—	—	—
5/8	50	EA	54159	WC400 3/4 OD COUPLING	—	—	—
3/4	50	EA	54160	WC400 7/8 OD COUPLING	—	—	—
1	25	EA	54161	WC400 1 1/8 OD COUPLING	—	—	—
1-1/4	25	EA	54162	WC400 1 3/8 OD COUPLING	—	—	—
1-1/2	10	EA	54163	WC400 1 5/8 OD COUPLING	—	—	—
2	75	EA	54164	WC400 2 1/8 OD COUPLING	—	—	—
2-1/2	50	EA	54165	WC400 2 5/8 OD COUPLING	—	—	—

### WC400NS Copper to Copper No Stop Couplings

3/8	25	EA	54120	WC400NS 1/2 OD COUPLING	—	—	—
1/2	50	EA	54121	WC400NS 5/8 OD COUPLING	—	—	—
5/8	25	EA	54122	WC400NS 3/4 OD COUPLING	—	—	—
3/4	25	EA	54123	WC400NS 7/8 OD COUPLING	—	—	—
1	25	EA	54124	WC400NS 1 1/8 OD COUPLING	—	—	—

### WC400R Copper to Copper Reducing Couplings

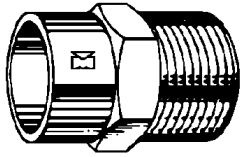
1/4 x 1/8	50	EA	54171	WC400R 3/8X1/4 OD COUPLING	—	—	—
1/4 x 3/16	50	EA	54501	WC400R 3/8X5/16 OD COUPLING	—	—	—
3/8 x 1/8	50	EA	54172	WC400R 1/2X1/4 OD COUPLING	—	—	—
3/8 x 1/4	50	EA	54173	WC400R 1/2X3/8 OD COUPLING	—	—	—
1/2 x 1/4	50	EA	54174	WC400R 5/8X3/8 OD COUPLING	—	—	—
1/2 x 3/8	50	EA	54175	WC400R 5/8X1/2 OD COUPLING	—	—	—
5/8 x 1/4	10	EA	54143	WC400R 3/4X3/8 OD COUPLING	—	—	—
5/8 x 3/8	10	EA	54190	WC400R 3/4X1/2 OD COUPLING	—	—	—
5/8 x 1/2	100	EA	54170	WC400R 3/4X5/8 OD COUPLING	—	—	—
3/4 x 1/4	50	EA	54144	WC400R 7/8X3/8 OD COUPLING	—	—	—
3/4 x 3/8	50	EA	54176	WC400R 7/8X1/2 OD COUPLING	—	—	—
3/4 x 1/2	50	EA	54177	WC400R 7/8X5/8 OD COUPLING	—	—	—
3/4 x 5/8	100	EA	54178	WC400R 7/8X3/4 OD COUPLING	—	—	—
1 x 3/8	25	EA	54145	WC400R 1 1/8X1/2 OD COUPLING	—	—	—
1 x 1/2	25	EA	54146	WC400R 1 1/8X5/8 OD COUPLING	—	—	—
1 x 3/4	25	EA	54179	WC400R 1 1/8X7/8 OD COUPLING	—	—	—
1-1/4 x 3/4	10	EA	54181	WC400R 1 3/8X7/8 OD COUPLING	—	—	—
1-1/4 x 1	10	EA	54180	WC400R 1 3/8X1 1/8 OD COUPLING	—	—	—
1-1/2 x 3/4	10	EA	54148	WC400R 1 5/8X7/8 OD COUPLING	—	—	—
1-1/2 x 1	10	EA	54183	WC400R 1 5/8X1 1/8 OD COUPLING	—	—	—
1-1/2 x 1-1/4	10	EA	54182	WC400R 1 5/8X1 3/8 OD COUPLING	—	—	—
2 x 1	100	EA	54184	WC400R 2 1/8X1 1/8 OD COUPLING	—	—	—
2 x 1-1/4	100	EA	54185	WC400R 2 1/8 X 1 3/8 OD COUPLING	—	—	—
2 x 1-1/2	10	EA	54186	WC400R 2 1/8 X 1 5/8 OD COUPLING	—	—	—
2-1/2 x 2-1/8	50	EA	54471	WC400R 2 5/8X 2 1/8OD COUPLING	—	—	—



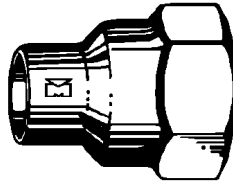


# Copper Sweat Fittings

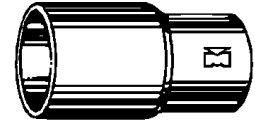
## Bushings and Adapters: WC401, WC402, WC403



WC401R



WC402R



WC403R

### WC401, WC401R Copper to MPT, Male Adapters

Nominal Size	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
3/8 x 1/2	50	EA	54202	WC401R 1/2 OD X 1/2 MPT ADAPTER	—	—	—
3/8 x 3/4	25	EA	54203	WC401R 1/2 OD X 3/4 MPT ADAPTER	—	—	—
3/4 x 1	25	EA	54206	WC401R 7/8 OD X 1 MPT ADAPTER	—	—	—
1/2 x 1/2	50	EA	54208	WC401 5/8 OD X 1/2 MPT ADAPTER	—	—	—
1/2 x 3/4	1	EA	54216	WC401R 5/8 OD X 3/4 MPT ADAPTER	—	—	—
5/8 x 1/2	25	EA	54204	WC401R 3/4 OD X 1/2 MPT ADAPTER	—	—	—
5/8 x 3/4	25	EA	54223	WC401R 3/4 OD X 3/4 MPT ADAPTER	—	—	—
3/4 x 1/2	25	EA	54224	WC401R 7/8 OD X 1/2 MPT ADAPTER	—	—	—
3/4 x 3/4	25	EA	54209	WC401 7/8 OD X 3/4 MPT ADAPTER	—	—	—
1 x 3/4	10	EA	54207	WC401R 1 1/8 OD X 3/4 MPT ADAPTER	—	—	—
1 x 1	10	EA	54210	WC401 1 1/8 OD X 1 MPT ADAPTER	—	—	—
1-1/4 x 1-1/4	10	EA	54211	WC401 1 3/8 OD X 1 1/4 MPT ADAPTER	—	—	—
1-1/4 x 1-1/2	10	EA	54214	WC401R 1 3/8 OD X 1 1/2 MPT ADAPTER	—	—	—
1-1/2 x 1-1/4	10	EA	54466	WC401R 1 5/8 OD X 1 1/4 MPT ADAPTER	—	—	—
1-1/2 x 1-1/2	10	EA	54212	WC401 1 5/8 OD X 1 1/2 MPT ADAPTER	—	—	—
2 x 2	50	EA	54462	WC401 2 1/8 OD X 2 MPT ADAPTER	—	—	—

### WC402, WC402R Copper to FPT, Female Adapters

3/8 x 1/2	50	EA	54200	WC402 1/2 OD X 1/2 FPT ADAPTER	—	—	—
1/2 x 1/2	50	EA	54192	WC402 5/8 OD X 1/2 FPT ADAPTER	—	—	—
1/2 x 3/4	50	EA	54195	WC402 5/8 OD X 3/4 FPT ADAPTER	—	—	—
3/4 x 1/2	10	EA	54201	WC402 7/8 OD X 1/2 FPT ADAPTER	—	—	—
3/4 x 3/4	25	EA	54193	WC402 7/8 OD X 3/4 FPT ADAPTER	—	—	—
1 x 3/4	25	EA	54196	WC402 1 1/8 OD X 3/4 FPT ADAPTER	—	—	—
1 x 1	10	EA	54191	WC402 1 1/8 OD X 1 FPT ADAPTER	—	—	—
1-1/4 x 1-1/4	10	EA	54199	WC402 1 3/8 OD X 1 1/4 FPT ADAPTER	—	—	—
1 1/2 x 1 1/2	10	EA	54467	WC402 1 5/8 OD X 1 1/2 FPT ADAPTER	—	—	—
2 x 2	50	EA	54468	WC402 2 1/8 OD X 2 FPT ADAPTER	—	—	—

### WC403R Fitting to Copper Reducing Bushings

1/4 x 1/8	50	EA	54392	WC403R 3/8X1/4 OD RED FITTING	—	—	—
3/8 x 1/4	50	EA	54394	WC403R 1/2X3/8 OD RED FITTING	—	—	—
1/2 x 1/4	50	EA	54396	WC403R 5/8X3/8 OD RED FITTING	—	—	—
1/2 x 3/8	50	EA	54395	WC403R 5/8X1/2 OD RED FITTING	—	—	—
5/8 x 1/2	100	EA	54393	WC403R 3/4X5/8 OD RED FITTING	—	—	—
3/4 x 3/8	50	EA	54397	WC403R 7/8X1/2 OD RED FITTING	—	—	—
3/4 x 1/2	50	EA	54398	WC403R 7/8X5/8 OD RED FITTING	—	—	—
3/4 x 5/8	50	EA	54399	WC403R 7/8X3/4 OD RED FITTING	—	—	—
1 x 1/2	25	EA	54391	WC403R 1 1/8X5/8 OD RED FITTING	—	—	—
1 x 5/8	25	EA	54400	WC403R 1 1/8X3/4 OD RED FITTING	—	—	—
1 x 3/4	25	EA	54401	WC403R 1 1/8X7/8 OD RED FITTING	—	—	—
1-1/4 x 3/4	10	EA	54403	WC403R 1 3/8X7/8 OD RED FITTING	—	—	—
1-1/4 x 1	10	EA	54404	WC403R 1 3/8X1 1/8 OD RED FITTING	—	—	—
1-1/2 x 1	10	EA	54405	WC403R 1 5/8X1 1/8 OD RED FITTING	—	—	—
1-1/2 x 1-1/4	10	EA	54409	WC403R 1 5/8X1 3/8 OD RED FITTING	—	—	—
2 x 1	100	EA	54406	WC403R 2 1/8X1 1/8 OD RED FITTING	—	—	—
2 x 1-1/4	100	EA	54407	WC403R 2 1/8X1 3/8 OD RED FITTING	—	—	—
2 x 1-1/2	100	EA	54408	WC403R 2 1/8X1 5/8 OD RED FITTING	—	—	—
2-1/2 x 2	50	EA	54410	WC403R 2 5/8X2 1/8 OD RED FITTING	—	—	—

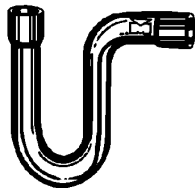


## Copper Sweat Fittings

### Return Bends, P-Traps, Caps, Tube Straps



W60XX



WE554P



WC415



WS1100

#### W60XX Copper to Copper Return Bends

Center to Center (In.)	Nominal Size	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 5 CTNS
1-1/2	1/4	25	EA	54415	W6020 3/8 OD RETURN BEND	—	—	—
1-1/2	3/8	50	EA	54416	W6032 1/2 OD RETURN BEND	—	—	—
1-9/16	1/2	25	EA	54417	W6051 5/8 OD RETURN BEND	—	—	—
2-1/8	5/8	10	EA	54418	W6074 3/4 OD RETURN BEND	—	—	—
2-1/2	3/4	10	EA	54419	W6092 7/8 OD RETURN BEND	—	—	—

#### WE554P Copper to Copper Suction Line P-Traps

Nominal Size	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 5 CTNS
1/2	10	EA	54434	WE554P 5/8 OD P-TRAP	—	—	—
5/8	10	EA	54433	WE554P 3/4 OD P-TRAP	—	—	—
3/4	5	EA	54435	WE554P 7/8 OD P-TRAP	—	—	—
1	3	EA	54436	WE554P 1 1/8 OD P-TRAP	—	—	—
1-1/4	4	EA	54437	WE554P 1 3/8 OD P-TRAP	—	—	—
1-1/2	4	EA	54439	WE554P 1 5/8 OD P-TRAP	—	—	—
2	3	EA	54438	WE554P 2 1/8 OD P-TRAP	—	—	—

#### WC415 Copper Caps

1/8	50	EA	54382	WC415 1/4 OD CAP	—	—	—
1/4	50	EA	54383	WC415 3/8 OD CAP	—	—	—
3/8	50	EA	54381	WC415 1/2 OD CAP	—	—	—
1/2	50	EA	54385	WC415 5/8 OD CAP	—	—	—
5/8	50	EA	54389	WC415 3/4 OD CAP	—	—	—
3/4	25	EA	54386	WC415 7/8 OD CAP	—	—	—
1	10	EA	54387	WC415 1 1/8 OD CAP	—	—	—
1-1/4	25	EA	54388	WC415 1 3/8 OD CAP	—	—	—
1-1/2	25	EA	54384	WC415 1 5/8 OD CAP	—	—	—
2	100	EA	54380	WC415 2 1/8 OD CAP	—	—	—

#### WS1100 Tube Straps

1/8	100	EA	54441	WS1100 1/4 OD TUBE STR FOR 1/8 NOM	—	—	—
1/4	100	EA	54442	WS1100 3/8 OD TUBE STR FOR 1/4 NOM	—	—	—
3/8	100	EA	54443	WS1100 1/2 OD TUBE STR FOR 3/8 NOM	—	—	—
1/2	100	EA	54444	WS1100 5/8 OD TUBE STR FOR 1/2 NOM	—	—	—
5/8	50	EA	54445	WS1100 3/4 OD TUBE STR FOR 5/8 NOM	—	—	—
3/4	50	EA	54446	WS1100 7/8 OD TUBE STR FOR 3/4 NOM	—	—	—
1	50	EA	54447	WS1100 1 1/8 OD TUBE STR FOR 1 NOM	—	—	—
1-1/4	50	EA	54448	WS1100 1 3/8 OD TUBE STR FOR 1 1/4 NOM	—	—	—
1-1/2	50	EA	54449	WS1100 1 5/8 OD TUBE STR FOR 1 1/2 NOM	—	—	—



## Brass Fittings

### Push Fit



630-003



631-003



632-003



636-005

#### Advantages

- Forged DZR lead free brass; no integrated tube liners
- Removable
- Each fitting includes Hi-Flow tube stiffener for PEX tubing
- 25 Year Warranty

#### Specifications

- Grip Ring: S.S. 316
- Release and Seat Ring: POM
- O-Ring: EPDM 70
- Max. Pressure: 200 PSI
- Max. Temp.: 200°

#### Approved Applications

- Residential and commercial plumbing
- Wet or dry installations
- Renovations and repairs
- Hydronics

#### Certifications

- CUPC
- ASSE 1061
- IAPMO Listed
- IPC
- NSF/ANSI 61

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-99	PC-2 100
1	EA	54450	630-003 1/2"X1/2" PUSH FIT COUPLING	—	—
1	EA	54451	630-004 3/4"X3/4" PUSH FIT COUPLING	—	—
1	EA	54452	630-005 1"X1" PUSH FIT COUPLING	—	—
1	EA	54453	631-003 1/2"X1/2" PUSH FIT 90 DEGREE ELBOW	—	—
1	EA	54454	631-004 3/4"X3/4" PUSH FIT 90 DEGREE ELBOW	—	—
1	EA	54455	631-005 1"X1" PUSH FIT 90 DEGREE ELBOW	—	—
1	EA	54456	632-003 1/2"X1/2"X1/2" PUSH FIT TEE	—	—
1	EA	54457	632-004 3/4"X3/4"X3/4" PUSH FIT TEE	—	—
1	EA	54458	632-005 1"X1"X1" PUSH FIT TEE	—	—
1	EA	54476	636-003 1/2" PUSH FIT DISCONNECT CLIP	—	—
1	EA	54477	636-004 3/4" PUSH FIT DISCONNECT CLIP	—	—
1	EA	54478	636-005 1" PUSH FIT DISCONNECT CLIP	—	—



## Brass Valves

### Push Fit



#### Advantages

- Full Port
- Forged DZR lead free brass; no integrated tube liners
- Removable
- Integrated brass seal gland
- 25 Year Warranty

#### Specifications

- Grip Ring: S.S. 316
- Release and Seat Ring: POM
- O-Ring: EPDM 70
- Max Pressure: 200 PSI
- Max Temp: 200°

#### Approved Applications

- Residential and commercial plumbing
- Wet or dry installations
- Renovations and repairs
- Hydronics

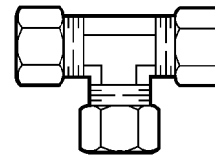
#### Certifications

- CUPC
- ASSE 1061
- IAPMO Listed
- IPC
- NSF/ANSI 61

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-99	PC-2 100
1	EA	54424	107-063 1/2" PUSH FIT BALL VALVE FULL	—	—
1	EA	54425	107-064 3/4" PUSH FIT BALL VALVE FULL	—	—
1	EA	54426	107-065 1" PUSH FIT BALL VALVE FULL	—	—



## Brass Compression Fittings



62-4

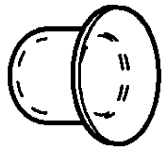


68-4-4

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-99	PC-2 100
10	EA	81289	62-4 1/4 IN UNION	—	—
10	EA	81290	68-4-4 1/4 IN X 1/4 IN COMPRESSION X MALE ADAPTER	—	—



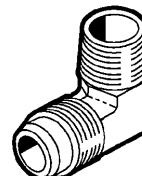
## Brass Fittings for Refrigeration



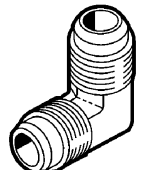
B1



B2



E1



E2

### A08074 Replacement Gasket for Drum Adapter

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-99	PC-2 100
1	EA	56104	A 08074 3/4" REPLACEMENT GASKET	—	—

### B1 Flare Seal Bonnet

100	EA	55825	B1-4 1/4 FLARE SEAL	—	—
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### B2 Flare Gaskets

100	EA	55881	B2-4 1/4 FLARE GASKET	—	—
50	EA	55882	B2-5 5/16 FLARE GASKET	—	—
100	EA	55883	B2-6 3/8 FLARE GASKET	—	—
100	EA	55884	B2-8 1/2 FLARE GASKET	—	—
50	EA	55885	B2-10 5/8 FLARE GASKET	—	—
25	EA	55886	B2-12 3/4 FLARE GASKET	—	—

### E1 Forged Half Union Elbows, Flare x MPT

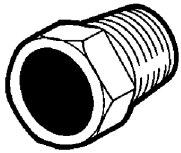
25	EA	56020	E1-4A 1/4X1/8 HALF UNION ELBOW	—	—
25	EA	56021	E1-4B 1/4X1/4 HALF UNION ELBOW	—	—
25	EA	56022	E1-4C 1/4X3/8 HALF UNION ELBOW	—	—
25	EA	56025	E1-6B 3/8X1/4 HALF UNION ELBOW	—	—
25	EA	56026	E1-6C 3/8X3/8 HALF UNION ELBOW	—	—
25	EA	56027	E1-6D 3/8X1/2 HALF UNION ELBOW	—	—
15	EA	56030	E1-8D 1/2X1/2 HALF UNION ELBOW	—	—
10	EA	56034	E1-10D 5/8X1/2 HALF UNION ELBOW	—	—
10	EA	56038	E1-12D 3/4X1/2 HALF UNION ELBOW	—	—
10	EA	56039	E1-12E 3/4X3/4 HALF UNION ELBOW	—	—

### E2 Forged Union Elbows, Flare x Flare

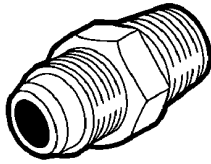
25	EA	56045	E2-6 3/8 FULL UNION ELBOW	—	—
15	EA	56046	E2-8 1/2 FULL UNION ELBOW	—	—
10	EA	56047	E2-10 5/8 FULL UNION ELBOW	—	—



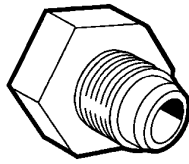
## Brass Fittings for Refrigeration



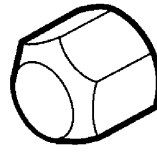
FP



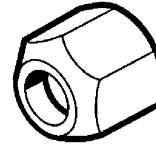
FU



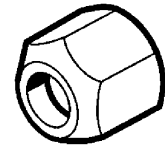
K1



N5



NRS4



NS4

### FP Fusible Plug

Filled to Melt (° F)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
168	15	EA	56125	FP-C-168 3/8 MPT PLUG	—

### FU Fusible Half Unions, Flare x MPT

Filled to Melt (° F)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-99	PC-2 100
210	10	EA	56115	FU4B-210 1/4X1/4 HALF UNION	—	—
210	10	EA	56120	FU6C-210 3/8X3/8 HALF UNION	—	—

### K1 Refrigerant Drum Adapters with Gasket, Flare x FPT

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-99	PC-2 100
10	EA	56102	K1-8 1/4X1/2 REF ADAPTER W/GASKET	—	—
10	EA	56101	K1-1 1/4X3/4 REF ADAPTER W/GASKET	—	—
10	EA	56103	K1-3 3/8X3/4 REF ADAPTER W/GASKET	—	—

### N5 Forged Flare Fitting Caps (Use B2 Copper Gasket)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-99	PC-2 100
50	EA	56080	N5-4 1/4 FLARE CAP	—	—
25	EA	56081	N5-5 5/16 FLARE CAP	—	—
25	EA	56082	N5-6 3/8 FLARE CAP	—	—
25	EA	56083	N5-8 1/2 FLARE CAP	—	—
10	EA	56079	N5-10 5/8 FLARE CAP	—	—
10	EA	56084	N5-12 3/4 FLARE CAP	—	—

### NRS4 Reducing Short Forged Flare Nuts

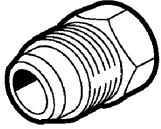
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-99	PC-2 100
10	EA	55861	NRS4-43 1/4X3/16 FLARE NUT	—	—
10	EA	55862	NRS4-54 5/16X1/4 FLARE NUT	—	—
25	EA	55863	NRS4-64 3/8X1/4 FLARE NUT	—	—
10	EA	55864	NRS4-65 3/8X5/16 FLARE NUT	—	—
15	EA	55865	NRS4-86 1/2X3/8 FLARE NUT	—	—
15	EA	55866	NRS4-108 5/8X1/2 FLARE NUT	—	—

### NS4 Short Forged Flare Nuts

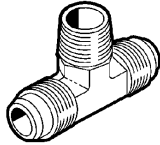
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-99	PC-2 100
50	EA	55836	NS4-4 1/4 FLARE NUT	—	—
25	EA	55837	NS4-5 5/16 FLARE NUT	—	—
25	EA	55838	NS4-6 3/8 FLARE NUT	—	—
15	EA	55839	NS4-8 1/2 FLARE NUT	—	—
10	EA	55840	NS4-10 5/8 FLARE NUT	—	—
10	EA	55841	NS4-12 3/4 FLARE NUT	—	—



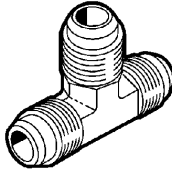
## Brass Fittings for Refrigeration



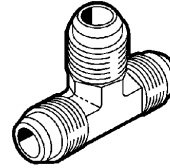
P2



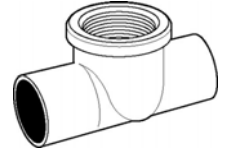
T1



T2



TR2



WT602

### P2 Forged Flare Fitting Plugs

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-99	PC-2 100
15	EA	56089	P2-4 1/4 IN FLARE PLUG	—	—
15	EA	56091	P2-6 3/8 IN FLARE PLUG	—	—

### T1 Forged Tees, Flare x Flare x MPT (Male Pipe Thread on Branch)

25	EA	56051	T1-4B 1/4X1/4X1/4 TEE	—	—
15	EA	56057	T1-6C 3/8X3/8X3/8 TEE	—	—

### T2 Forged Tees, Flared OD Tube All Ends

25	EA	56073	T2-4 1/4 FLARE TEE	—	—
15	EA	56074	T2-6 3/8 FLARE TEE	—	—
15	EA	56075	T2-8 1/2 FLARE TEE	—	—

### TR2 Forged Reducing Tees, Flared OD Tube All Ends

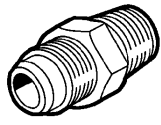
15	EA	56070	TR2-86 1/2X1/2X3/8 TEE	—	—
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### WT602 Forged Tee C x C x F

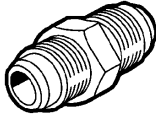
25	EA	54375	WT602 3/8X3/8X1/4 FPT TEE FORGED BRASS	—	—
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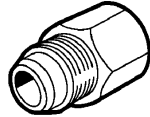
## Brass Fittings for Refrigeration



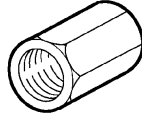
U1



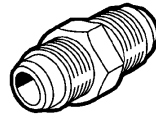
U2



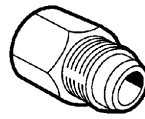
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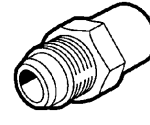
U4



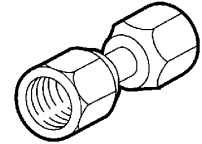
UR2



UR3



US3



US4

### U1 Forged Half Union Couplings, Flare x MPT

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-99	PC-2 100
25	EA	55901	U1-4A 1/4X1/8 HALF UNION	—	—
25	EA	55902	U1-4B 1/4X1/4 HALF UNION	—	—
25	EA	55903	U1-4C 1/4X3/8 HALF UNION	—	—
25	EA	55904	U1-4D 1/4X1/2 HALF UNION	—	—
25	EA	55907	U1-6B 3/8X1/4 HALF UNION	—	—
25	EA	55908	U1-6C 3/8X3/8 HALF UNION	—	—
25	EA	55909	U1-6D 3/8X1/2 HALF UNION	—	—
10	EA	55912	U1-8B 1/2X1/4 HALF UNION	—	—
10	EA	55913	U1-8C 1/2X3/8 HALF UNION	—	—
10	EA	55914	U1-8D 1/2X1/2 HALF UNION	—	—
10	EA	55915	U1-8E 1/2X3/4 HALF UNION	—	—
10	EA	55918	U1-10C 5/8X3/8 HALF UNION	—	—
10	EA	55919	U1-10D 5/8X1/2 HALF UNION	—	—
5	EA	55920	U1-10E 5/8X3/4 HALF UNION	—	—
5	EA	55923	U1-12D 3/4X1/2 HALF UNION	—	—
5	EA	55924	U1-12E 3/4X3/4 HALF UNION	—	—

### U2 Forged Union Couplings, Flare x Flare

25	EA	55941	U2-4 1/4 FULL UNION	—	—
25	EA	55942	U2-5 5/16 FULL UNION	—	—
25	EA	55943	U2-6 3/8 FULL UNION	—	—
15	EA	55944	U2-8 1/2 FULL UNION	—	—
10	EA	55945	U2-10 5/8 FULL UNION	—	—
10	EA	55946	U2-12 3/4 FULL UNION	—	—

### U3 Forged Female Couplings, Flare x FPT

25	EA	55960	U3-4A 1/4X1/8 FEMALE HALF UNION	—	—
25	EA	55961	U3-4B 1/4X1/4 FEMALE HALF UNION	—	—
15	EA	55962	U3-4C 1/4X3/8 FEMALE HALF UNION	—	—
25	EA	55966	U3-6B 3/8X1/4 FEMALE HALF UNION	—	—
15	EA	55967	U3-6D 3/8X1/2 FEMALE HALF UNION	—	—
15	EA	55972	U3-8C 1/2X3/8 FEMALE HALF UNION	—	—
15	EA	55973	U3-8D 1/2X1/2 FEMALE HALF UNION	—	—
10	EA	55976	U3-10D 5/8X1/2 FEMALE HALF UNION	—	—

### U4 Forged Valve Connectors, Flare x Flare

10	EA	56004	U4-4 1/4 CONNECTOR	—	—
10	EA	56005	U4-6 3/8 CONNECTOR	—	—

### UR2 Forged Reducing Union Couplings, Flare x Flare

15	EA	55952	UR2-64 3/8X1/4 FULL UNION	—	—
25	EA	55954	UR2-86 1/2X3/8 FULL UNION	—	—
15	EA	55955	UR2-84 1/2X1/4 FULL UNION	—	—

### UR3 Forged Flare Fitting Reducers, Female Flare x Male Flare

15	EA	55989	UR3-46 1/4X3/8 REDUCER	—	—
15	EA	55990	UR3-64 3/8X1/4 REDUCER	—	—
15	EA	55991	UR3-68 3/8X1/2 REDUCER	—	—
15	EA	55994	UR3-86 1/2X3/8 REDUCER	—	—
10	EA	55995	UR3-810 1/2X5/8 REDUCER	—	—

### US3 Forged Adapters, Flare x Sweat

5	EA	56016	US3-66 3/8X3/8 ADAPTER	—	—
5	EA	56018	US3-88 1/2X1/2 ADAPTER	—	—

### US4 Forged Swivel Nut Valve Connectors

15	EA	56010	US4-4 1/4 SWIVEL FLARE NUT	—	—
15	EA	56011	US4-6 3/8 SWIVEL FLARE NUT	—	—
15	EA	56012	US4-8 1/2 SWIVEL FLARE NUT	—	—

**K-FLEX USA Insul-Tube Pipe Insulation**

**Condensation Control Thickness Recommendations\***

Pipe Size	Line Temp. 50° F	Line Temp. 35° F	Line Temp. 0° F
<b>Normal Conditions (Max 85° F, 70% R.H.)</b>			
3/8" ID through 3" IPS	3/8" Wall	1/2" Wall	1" Wall
Over 3" IPS through 4" IPS**	1/2" Wall	1/2" Wall	1" Wall
Over 4" IPS	1/2" Sheet	3/4" Sheet	1" Sheet
<b>Mild Conditions (Max. 80° F, 50% R.H.)</b>			
3/8" ID through 3" IPS	3/8" Wall	3/8" Wall	1/2" Wall
Over 3" IPS through 4" IPS**	1/2" Wall	1/2" Wall	3/4" Wall
Over 4" IPS	1/2" Sheet	1/2" Sheet	1" Sheet
<b>Severe Conditions (Max. 90° F, 80% R.H.)</b>			
3/8" ID through 4" IPS	3/4" Wall	1" Wall	1-1/2" Sheet

\*Insul-Tube\*: In thickness noted within the specific temperature ranges will prevent condensation on indoor piping under design conditions defined below. Normal: Maximum severity of indoor conditions seldom exceed 85° F and 70% R.H. in United States. Mild: Typical conditions are most air-conditioned spaces and arid climates. Severe: Generally found in areas in which excessive moisture is introduced or in poorly ventilated areas where the temperature may be depressed below the ambient. Under conditions of high humidity additional thickness of insulation may be required. \*\*Available: Nom. 1/2" or Nom. 3/4" thickness only.

**Priced Per FT**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 1-4 CTNS	PC-3 5-9 CTNS	PC-4 10 CTNS
432	FT	44199	6RX038048 6-1/2IDX3/8 FLEX THERM	—	—	—	—
378	FT	44200	6RX038058 6-5/8IDX3/8 FLEX THERM	—	—	—	—
342	FT	44201	6RX038068 6-3/4IDX3/8 FLEX THERM	—	—	—	—
288	FT	44202	6RX038078 6-7/8IDX3/8 FLEX THERM	—	—	—	—
216	FT	44204	6RX038118 6-1-1/8IDX3/8 FLEX THERM	—	—	—	—
168	FT	44206	6RX038138 6-1-3/8IDX3/8 FLEX THERM	—	—	—	—
456	FT	44239	6RX048038 6-3/8IDX1/2 FLEX THERM	—	—	—	—
360	FT	44240	6RX048048 6-1/2IDX1/2 FLEX THERM	—	—	—	—
324	FT	44241	6RX048058 6-5/8IDX1/2 FLEX THERM	—	—	—	—
270	FT	44242	6RX048068 6-3/4IDX1/2 FLEX THERM	—	—	—	—
228	FT	44243	6RX048078 6-7/8IDX1/2 FLEX THERM	—	—	—	—
156	FT	44245	6RX048118 6-1-1/8IDX1/2 FLEX THERM	—	—	—	—
120	FT	44247	6RX048138 6-1-3/8IDX1/2 FLEX THERM	—	—	—	—
114	FT	44248	6RX048158 6-1-5/8IDX1/2 FLEX THERM	—	—	—	—
102	FT	44249	6RX048218 6-2-1/8IDX1/2 FLEX THERM	—	—	—	—
66	FT	44250	6RX048238 6-2IPSX1/2 FLEX THERM	—	—	—	—
36	FT	44251	6RX048348 6-3IPSX1/2 FLEX THERM	—	—	—	—
48	FT	44252	6RX048318 6-3-1/8IDX1/2 FLEX THERM	—	—	—	—
24	FT	44254	6RX048448 6-4IPSX1/2 FLEX THERM	—	—	—	—
228	FT	44261	6RX068048 6-1/2IDX3/4 FLEX THERM	—	—	—	—
180	FT	44262	6RX068058 6-5/8IDX3/4 FLEX THERM	—	—	—	—
144	FT	44263	6RX068068 6-3/4IDX3/4 FLEX THERM	—	—	—	—
126	FT	44264	6RX068078 6-7/8IDX3/4 FLEX THERM	—	—	—	—
90	FT	44265	6RX068118 6-1 1/8IDX3/4 FLEX THERM	—	—	—	—
78	FT	44266	6RX068138 6-1 3/8IDX3/4 FLEX THERM	—	—	—	—
72	FT	44267	6RX068158 6-1 5/8IDX3/4 FLEX THERM	—	—	—	—
60	FT	44268	6RX068218 6-2 1/8IDX3/4 FLEX THERM	—	—	—	—
42	FT	44269	6RX068258 6-2 5/8IDX3/4 FLEX THERM	—	—	—	—
36	FT	44270	6RX068318 6-3 1/8IDX3/4 FLEX THERM	—	—	—	—
90	FT	44275	6RX100078 6-7/8IDX1 FLEX THERM	—	—	—	—
66	FT	44276	6RX100118 6-1-1/8IDX1 FLEX THERM	—	—	—	—
36	FT	44282	6RX100258 6-2-5/8IDX1 FLEX THERM	—	—	—	—





K-FLEX USA

## Insul-Lock Pipe Insulation



### Physical Properties

Thermal Conductivity (K)	90° F (32° C) Mean Temp	.27 (.039)
BTU (In./Hr.) Ft <sup>2</sup> °F (W/mK)	75° F (24° C) Mean Temp	.25 (.036)
Operating Temperature Range	Upper	200° F (93° C)
Flexible to -40° F (-40° C)	Lower	-70° F (-57° C)
Water Vapor Permeability Dry Cup Perm-In		<0.06
Water Absorption %		<0.20 by volume
Flame Spread (up to 1-1/2" wall)		Not greater than 25
Smoke Developed (up to 1-1/2" wall)		Not greater than 50
Ozone Resistance		Pass
Chemical/Solvent Resistance		Good
Mildew Resistance/Air Erosion		Pass

### Priced Per FT

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 1-4 CTNS	PC-3 5-9 CTNS	PC-4 10 CTNS
402	FT	44430	6RXL038048 1/2ID X 3/8 INSUL-LOCK SELF-SEAL	—	—	—	—
348	FT	44431	6RXL038058 5/8ID X 3/8 INSUL-LOCK SELF-SEAL	—	—	—	—
318	FT	44432	6RXL038068 3/4ID X 3/8 INSUL-LOCK SELF-SEAL	—	—	—	—
288	FT	44433	6RXL038078 7/8ID X 3/8 INSUL-LOCK SELF-SEAL	—	—	—	—
216	FT	44434	6RXL038118 1 1/8ID X 3/8 INSUL-LOCK SELF-SEAL	—	—	—	—
150	FT	44435	6RXL038138 1 3/8ID X 3/8 INSUL-LOCK SELF-SEAL	—	—	—	—
420	FT	44436	6RXL048038 3/8ID X 1/2 INSUL-LOCK SELF-SEAL	—	—	—	—
312	FT	44437	6RXL048048 1/2ID X 1/2 INSUL-LOCK SELF-SEAL	—	—	—	—
312	FT	44438	6RXL048058 5/8ID X 1/2 INSUL-LOCK SELF-SEAL	—	—	—	—
270	FT	44439	6RXL048068 3/4ID X 1/2 INSUL-LOCK SELF-SEAL	—	—	—	—
216	FT	44440	6RXL048078 7/8ID X 1/2 INSUL-LOCK SELF-SEAL	—	—	—	—
150	FT	44441	6RXL048118 1 1/8ID X 1/2 INSUL-LOCK SELF-SEAL	—	—	—	—
120	FT	44442	6RXL048138 1 3/8ID X 1/2 INSUL-LOCK SELF-SEAL	—	—	—	—
108	FT	44443	6RXL048158 1 5/8ID X 1/2 INSUL-LOCK SELF-SEAL	—	—	—	—
102	FT	44444	6RXL048218 2 1/8ID X 1/2 INSUL-LOCK SELF-SEAL	—	—	—	—
126	FT	44445	6RXL068078 7/8ID X 3/4 INSUL-LOCK SELF-SEAL	—	—	—	—
90	FT	44446	6RXL068118 1 1/8ID X 3/4 INSUL-LOCK SELF-SEAL	—	—	—	—
72	FT	44447	6RXL068158 1 5/8ID X 3/4 INSUL-LOCK SELF-SEAL	—	—	—	—
60	FT	44448	6RXL068218 2 1/8ID X 3/4 INSUL-LOCK SELF-SEAL	—	—	—	—



K-FLEX USA

## Sheet Insulation

Insul-Sheet is available in 1/2" and 3/4" thicknesses. Designed for application on equipment and lines of 0° F and temperature conditions that may be depressed below ambient conditions.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 1-4 CTNS	PC-3 5-9 CTNS	PC-4 10 CTNS
12	EA	44218	6RSX3X4048 1/2X36X48 FLEX THERM SHEET	—	—	—	—
8	EA	44219	6RSX3X4068 3/4X36X48 FLEX THERM SHEET	—	—	—	—



**K-FLEX USA 320 Adhesive**



320 Adhesive is a specially formulated air drying contact adhesive for joining seams and butt joints on Insul-Tube® or sheet applications. This adhesive is also excellent for creating a resilient, moisture, and heat resistant bond on most other materials up to 180° F.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
24	EA	44304	800-320-PTB PINT W/BRUSH TOP R-320 FAST TACK ADHESIVE-AMBER	—
12	EA	44305	800-320-QT QUART R-320 FAST TACK ADHESIVE-AMBER	—
4	EA	44306	800-320-GAL GALLON R-320 FAST TACK ADHESIVE-AMBER	—



**K-FLEX USA 374 Coating**

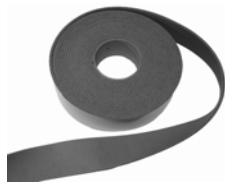


374 Coating is a synthetic resin, water based material that has been designed for use on Insul-Tube® and sheet surfaces. This white coating provides a high gloss protective finish for both indoor and outdoor installations.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	44288	800-374-GAL GALLON INSULATION PROTECTIVE COATING	—



**K-FLEX USA Insulation Tape**



Elastomeric foam tape features pressure-sensitive adhesive that can be applied to hot or cold pipes and fittings and forms a long-lasting bond. The closed-cell structure provides good thermal and low moisture permeability properties.



This cork insulation tape is formulated to provide insulation and to prevent condensation on pipes, fittings and tubing used in heating, air conditioning, refrigeration and plumbing. It can also be used on hot pipes.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	44313	800-EL-018 FOAM 2INX1/8INX30FT ELASTOMER FOAM INSULATION TAPE	—	—
12	EA	44314	800-TAPE-CORK 2IN X 1/8IN X 30FT INSULATION CORK TAPE	—	—



## Titeflex Interior Gas Piping



Gas Piping



Joint Fitting



Flange Fitting



Striker Plates



Termination Bracket



5 Port Manifold



Ball Valve



Tubing Cutters

**IMPORTANT:** Will Only be Sold to Employees of Contractors Certified to Install Titeflex Gas Pipe Systems. Titeflex components constitute a design system and are not interchangeable with components of any other manufacturer. This system is specifically designed for use as an interior conduit for fuel gas.

Titeflex is design-certified by AGA for installation by trained contractors. The use of "General Purpose" corrugated stainless steel tubing for interior gas piping, the installation of any gas system by untrained contractors is not permitted.

### Stainless Steel Tubing

### Priced per Foot

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 249	PC-2 250-749	PC-3 750
150	FT	53124	S93-16A4-150 1" CSST GAS PIPING	—	—	—
250	FT	53151	S93-8A4-250 1/2" CSST GAS PIPING	—	—	—
250	FT	53152	S93-11B4-250 3/4" CSST GAS PIPING	—	—	—

### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	53100	XR2FTG-11-24 3/4IN JOINT FITTING	—	—
24	EA	53102	XR2FTG-8-24 1/2 JOINT FITTING	—	—
12	EA	53126	XR2FTG-16-12 1 JOINT FITTING	—	—
12	EA	53103	XR2TRM--11-12 3/4 FLANGE FITTING	—	—
12	EA	53105	XR2TRM-8-12 1/2 FLANGE FITTING	—	—
6	EA	53127	XR2TRM-16-6 1 FLANGE FITTING	—	—
25	EA	53130	TFM205-25 FULL STRIKER PLATE	—	—
50	EA	53131	TFM201-50 HALF STRIKER PLATE	—	—
100	EA	53132	TFM-204-100 QUARTER STRIKER PLATE	—	—
1	CL	53136	FLOPPY 16 FOR 1/2 CSST/50 FT COIL	—	—
12	EA	53139	XR2TRMBKT-8-12 1/2 TERMINATION BRACKET	—	—
50	EA	53157	LFLOPPY-16-50 1FT LENGTH FOR 1/2IN CSST	—	—
25	EA	53158	LFLOPPY-20-25 1FT LENGTH FOR 3/4IN CSST	—	—
10	EA	53159	XR-APSTUB-8-10 STUBOUT W/ 1/2 FEMALE FTG	—	—
10	EA	53160	1X12STUB-10 1"M X 12"L STRAIGHT STUB	—	—
1	EA	53161	5-PORTMAN-1 1 FX1@3/4 FX4@1/2X3/4 5 PORT MANIFOLD	—	—
1	EA	53162	XROUTLETBOX-8 1/2 XR FTG RECESSED GAS OUTLET BOX	—	—
12	EA	53163	XR2CPL-8-12 1/2 COUPLING	—	—
12	EA	53164	XR2CPL-11-12 3/4 COUPLING	—	—
6	EA	53165	XR2CPL-16-6 1 COUPLING	—	—
12	EA	53166	XR2T-8-12 1/2X1/2X1/2 TEE	—	—
12	EA	53167	XR2T-11-12 3/4X3/4X3/4 TEE	—	—
6	EA	53168	XR2T-16-6 1X1X1 TEE	—	—
10	EA	53170	3/4X6STUB-10 3/4"M X 6"L STRAIGHT STUB	—	—
10	EA	53171	1X6STUB-10 1X6 1"MX 6"L STRAIGHT STUB	—	—
6	EA	53172	XR2T-11-11-8-6 3/4X3/4X1/2 TEE	—	—
1	PKG	13389	BHS-2P-5 3/4 (100/PAK) PLASTIC HALF STRAP W/NAIL	—	—
1	PKG	13390	BHS-3P-5 1 (50/PAK) PLASTIC HALF STRAP W/NAIL	—	—
1	EA	53125	111596-08 4-PORT 1/2 COATED STEEL MANIFOLD	—	—
100	EA	53140	T-1001 1/2IN BALL VALVE	—	—
100	EA	53141	T-1001 3/4IN BALL VALVE	—	—
1	EA	53143	GTCUTTER-SM 3/8"-1" SMALL TUBING CUTTER	—	—
1	EA	53144	GTCUTTER-LG UP-2" LARGE TUBING CUTTER	—	—
10	EA	53153	MBRACE-1-10 MANIFOLD BRACKET	—	—
10	EA	53169	MBRACE-3-10 MANIFOLD BRACKET	—	—



## Stainless Steel Gas Appliance Connectors



3132 MIP x FIP

4242 MIP x MIP

AGA Design Certified under ANSI Test Standard Z21.24. Used for both indoor and outdoor connection of stationary gas appliances.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
25	EA	53297	G012SS101124/ 30-3132-24 SST FLEX GAS CONN	—	—
25	EA	53298	G012SS101136/ 30-3132-36 SST FLEX GAS CONN	—	—
25	EA	53299	G012SS101148/ 30-3132-48 SST FLEX GAS CONN	—	—
12	EA	53300	G012SS101160/ 30-3132-60 SST FLEX GAS CONN	—	—
25	EA	53313	G012SS151536/ 30-4242-36 SST FLEX GAS CONN	—	—
25	EA	53314	G012SS151548/ 30-4242-48 SST FLEX GAS CONN	—	—
12	EA	53315	G012SS151560/ 30-4242-60 SST FLEX GAS CONN	—	—
1	EA	53322	G034BL141448 3/4 IN ID SAFETY SYSTEM MOVEABLE GAS CONNECTOR-48 INCH	—	—



## Gas Valves



Flared Tube Valve



Ball Valve

### Flared Tube

Used With Flex Gas Conn.	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
P4G	10	EA	53295	114-523/ 91-2032 VALVE	—

### Gas Ball Valves: AGA and GGA Approved for Natural and LP Gas .5 PSI

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
10	EA	52690	110-223C/ 92-3232 GAS STOP	—	—
10	EA	52691	110-224C/ 92-4242 GAS STOP	—	—
6	EA	52692	110-125/ 94-5252 GAS STOP	—	—



## Gas Ball Valves

- Patented one-piece body
- 175 WOG
- CSA certified and UL listed
- Lever handle
- Threaded ends
- Forged brass body
- Soft seats



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	53056	T-3000 1/2IN BLUE LEVER HANDLE GAS VALVE	—	—
1	EA	53057	T-3000 3/4IN BLUE LEVER HANDLE GAS VALVE	—	—



## Gate Valves



- Round handle
- For shut-off service
- Non-rising stem
- Pressure 200 psi
- Maximum temperature 180° F

### Series T-414 Bronze Gate Valves

- 1/2" to 2"
- NPT female threaded connections

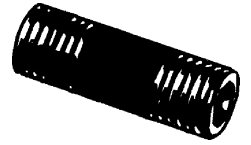
### Series S-401 Brass Gate Valves

- 1/2" to 1"
- Solder connections

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
120	EA	52650	T-414 1/2IN BRONZE GATE VALVE	—	—
84	EA	52651	T-414 3/4IN BRONZE GATE VALVE	—	—
60	EA	52652	T-414 1IN BRONZE GATE VALVE	—	—
40	EA	52653	T-414 1 1/4IN BRONZE GATE VALVE	—	—
18	EA	52666	T-414 2IN BRONZE GATE VALVE	—	—
120	EA	52654	S-401 1/2IN SOLDER END BRASS GATE VALVE	—	—
84	EA	52659	S-401 3/4IN SOLDER END BRASS GATE VALVE	—	—
60	EA	52660	S-401 1IN SOLDER END BRASS GATE VALVE	—	—



## Black Iron Pipe



Black iron pipe is threaded on both ends.

### 10 Ft. Black Pipe

**Black and Galvanized Pipe May be Combined to Obtain Quantity Discount**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10-19	PC-3 20
130	LTH	53330	1/2IN X 10FT TBE BLK PIPE THREADED BOTH ENDS	—	—	—
84	LTH	53331	3/4IN X 10FT TBE BLK PIPE THREADED BOTH ENDS	—	—	—
60	LTH	53332	1IN X 10FT TBE BLK PIPE THREADED BOTH ENDS	—	—	—
42	LTH	53333	1-1/4IN X 10FT TBE BLK PIPE THREADED BOTH ENDS	—	—	—
36	LTH	53334	1-1/2IN X 10FT TBE BLK PIPE THREADED BOTH ENDS	—	—	—
26	LTH	53335	2IN X 10FT TBE BLK PIPE THREADED BOTH ENDS	—	—	—
5	LTH	53336	2-1/2IN X 10 FT TBE BLK PIPE THREADED BOTH ENDS	—	—	—

### 21 Ft. Black Pipe

5	LTH	53341	1/2IN X 21FT TBE BLK PIPE THREADED BOTH ENDS	—	—	—
5	LTH	53342	3/4IN X 21FT TBE BLK PIPE THREADED BOTH ENDS	—	—	—
5	LTH	53343	1IN X 21FT TBE BLK PIPE THREADED BOTH ENDS	—	—	—
5	LTH	53344	1-1/4IN X 21FT TBE BLK PIPE THREADED BOTH ENDS	—	—	—
5	LTH	53345	1-1/2IN X 21FT TBE BLK PIPE THREADED BOTH ENDS	—	—	—
5	LTH	53346	2IN X 21FT TBE BLK PIPE THREADED BOTH ENDS	—	—	—



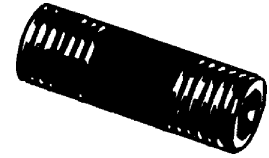
## Pre-Cut Pipe



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	50140	1/2X18 BLK NIPPLE	—
5	EA	50141	1/2X24 BLK NIPPLE	—
1	EA	50142	1/2X30 BLK NIPPLE	—
1	EA	50143	1/2X36 BLK NIPPLE	—
1	EA	50144	1/2X48 BLK NIPPLE	—
5	EA	50145	1/2X60 BLK NIPPLE	—
1	EA	50146	3/4X18 BLK NIPPLE	—
10	EA	50147	3/4X24 BLK NIPPLE	—
10	EA	50148	3/4X30 BLK NIPPLE	—
1	EA	50149	3/4X36 BLK NIPPLE	—
1	EA	50150	3/4X48 BLK NIPPLE	—
1	EA	50151	3/4X60 BLK NIPPLE	—



# Standard Black Welded Steel Nipples



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
25	EA	50166	1/2 X CLO BLK NIPPLE	—	—
25	EA	50167	1/2X1 1/2 BLK NIPPLE	—	—
25	EA	50168	1/2X2 BLK NIPPLE	—	—
25	EA	50169	1/2X2 1/2 BLK NIPPLE	—	—
25	EA	50170	1/2X3 BLK NIPPLE	—	—
25	EA	50171	1/2X3 1/2 BLK NIPPLE	—	—
25	EA	50172	1/2X4 BLK NIPPLE	—	—
25	EA	50173	1/2X4 1/2 BLK NIPPLE	—	—
25	EA	50174	1/2X5 BLK NIPPLE	—	—
25	EA	50175	1/2X5 1/2 BLK NIPPLE	—	—
25	EA	50176	1/2X6 BLK NIPPLE	—	—
25	EA	50156	1/2X8 BLK NIPPLE	—	—
25	EA	50155	1/2X10 BLK NIPPLE	—	—
25	EA	50177	1/2X12 BLK NIPPLE	—	—
25	EA	50187	3/4 X CLO BLK NIPPLE	—	—
25	EA	50188	3/4X1 1/2 BLK NIPPLE	—	—
25	EA	50189	3/4X2 BLK NIPPLE	—	—
25	EA	50190	3/4X2 1/2 BLK NIPPLE	—	—
25	EA	50191	3/4X3 BLK NIPPLE	—	—
25	EA	50192	3/4X3 1/2 BLK NIPPLE	—	—
15	EA	50193	3/4X4 BLK NIPPLE	—	—
20	EA	50194	3/4X4 1/2 BLK NIPPLE	—	—
25	EA	50195	3/4X5 BLK NIPPLE	—	—
25	EA	50196	3/4X5 1/2 BLK NIPPLE	—	—
25	EA	50197	3/4X6 BLK NIPPLE	—	—
25	EA	50158	3/4X8 BLK NIPPLE	—	—
25	EA	50157	3/4X10 BLK NIPPLE	—	—
25	EA	50198	3/4X12 BLK NIPPLE	—	—
10	EA	50208	1 X CLO BLK NIPPLE	—	—
10	EA	50209	1X2 BLK NIPPLE	—	—
10	EA	50210	1X2 1/2 BLK NIPPLE	—	—
25	EA	50211	1X3 BLK NIPPLE	—	—
25	EA	50212	1X3 1/2 BLK NIPPLE	—	—
30	EA	50213	1X4 BLK NIPPLE	—	—
10	EA	50214	1X4 1/2 BLK NIPPLE	—	—
10	EA	50215	1X5 BLK NIPPLE	—	—
25	EA	50216	1X5 1/2 BLK NIPPLE	—	—
25	EA	50217	1X6 BLK NIPPLE	—	—
10	EA	50218	1X7 BLK NIPPLE	—	—
30	EA	50222	1X12 BLK NIPPLE	—	—
3	EA	50230	1X24 BLK NIPPLE	—	—
25	EA	50237	1 1/4X CLO BLK NIPPLE	—	—
25	EA	50238	1 1/4X2 BLK NIPPLE	—	—
25	EA	50239	1 1/4X2 1/2 BLK NIPPLE	—	—
25	EA	50240	1 1/4X3 BLK NIPPLE	—	—
25	EA	50241	1 1/4X3 1/2 BLK NIPPLE	—	—
25	EA	50242	1 1/4X4 BLK NIPPLE	—	—
25	EA	50243	1 1/4X4 1/2 BLK NIPPLE	—	—
25	EA	50244	1 1/4X5 BLK NIPPLE	—	—
25	EA	50246	1 1/4X6 BLK NIPPLE	—	—
10	EA	50251	1 1/4X12 BLK NIPPLE	—	—
27	EA	50257	1 1/4X24 BLK NIPPLE	—	—
25	EA	50263	1 1/2 X CLO BLK NIPPLE	—	—
25	EA	50264	1 1/2X2 BLK NIPPLE	—	—
25	EA	50265	1 1/2X2 1/2 BLK NIPPLE	—	—
25	EA	50266	1 1/2X3 BLK NIPPLE	—	—
25	EA	50267	1 1/2X3 1/2 BLK NIPPLE	—	—
25	EA	50268	1 1/2X4 BLK NIPPLE	—	—
25	EA	50269	1 1/2X4 1/2 BLK NIPPLE	—	—
25	EA	50270	1 1/2X5 BLK NIPPLE	—	—
25	EA	50271	1 1/2X5 1/2 BLK NIPPLE	—	—
25	EA	50272	1 1/2X6 BLK NIPPLE	—	—
25	EA	50278	1 1/2X10 BLK NIPPLE	—	—

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STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10-19
25	EA	50280	1 1/2X12 BLK NIPPLE	—	—
25	EA	50286	2 X CLO BLK NIPPLE	—	—
25	EA	50288	2X2 1/2 BLK NIPPLE	—	—
25	EA	50289	2X3 BLK NIPPLE	—	—
25	EA	50290	2X3 1/2 BLK NIPPLE	—	—
4	EA	50291	2X4 BLK NIPPLE	—	—
25	EA	50292	2X4 1/2 BLK NIPPLE	—	—
25	EA	50293	2X5 BLK NIPPLE	—	—
25	EA	50294	2X5 1/2 BLK NIPPLE	—	—
25	EA	50295	2X6 BLK NIPPLE	—	—
25	EA	50301	2X12 BLK NIPPLE	—	—
25	EA	50307	2X24 BLK NIPPLE	—	—



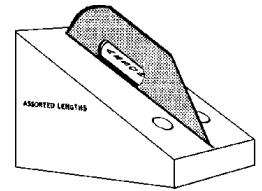
### Black Nipples Six Pack Assortment

Contains 6 Each of Lengths Listed (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
1-1/4, 2, 2-1/2, 3, 3-1/2, 4, 4-1/2, 5, 5-1/2, 6	6	PKG	50153	1 1/4" BLK SIX PACK ASSORTMENT	—	—
1-1/2, 2, 2-1/2, 3, 3-1/2, 4, 4-1/2, 5, 5-1/2, 6	6	PKG	50152	1 1/2" BLK SIX PACK ASSORTMENT	—	—
2, 2-1/2, 3, 3-1/2, 4, 4-1/2, 5, 5-1/2, 6	6	PKG	50154	2" BLK SIX PACK ASSORTMENT	—	—



### Black Pipe Nipple Totes

Each tote contains lengths from closed to 6 inches.

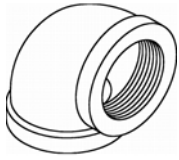


STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
8	EA	50136	1/2 BLK NIPPLE TOTE	—	—
6	EA	50137	3/4 BLK NIPPLE TOTE	—	—
6	EA	50138	1 BLK NIPPLE TOTE	—	—

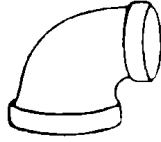




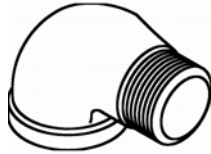
# Black Pipe Fittings



90° Elbow



90° Reducing Elbow



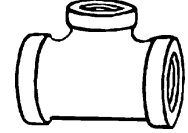
90° Street Elbow



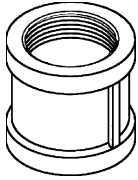
45° Regular Elbow



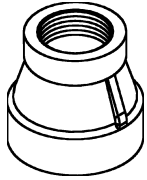
Tee



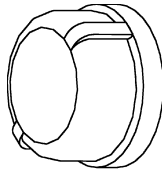
Reducing Tee



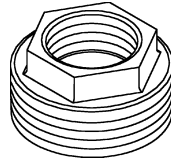
Coupling



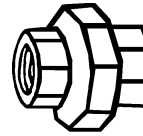
Reducing Coupling



Cap



Bushing



Union



Regular Plugs

Black and Galvanized Fittings May be Combined to Obtain Quantity Discount

## 90 Degree Black Regular Elbows

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
50	EA	53591	1/2IN 90 DEG BLK REG ELBOW	—	—	—
35	EA	53592	3/4IN 90 DEG BLK REG ELBOW	—	—	—
20	EA	53593	1IN 90 DEG BLK REG ELBOW	—	—	—
20	EA	53594	1-1/4IN 90 DEG BLK REG ELBOW	—	—	—
15	EA	53595	1-1/2IN 90 DEG BLK REG ELBOW	—	—	—
8	EA	53596	2IN 90 DEG BLK REG ELBOW	—	—	—

## 45 Degree Black Regular Elbows

50	EA	53560	1/2IN 45 DEG BLK REG ELBOW	—	—	—
40	EA	53561	3/4IN 45 DEG BLK REG ELBOW	—	—	—
20	EA	53562	1IN 45 DEG BLK REG ELBOW	—	—	—
20	EA	53563	1-1/4IN 45 DEG BLK REG ELBOW	—	—	—
15	EA	53564	1-1/2IN 45 DEG BLK REG ELBOW	—	—	—
9	EA	53555	2IN 45 DEG BLK ELBOW	—	—	—

## 90 Degree Black Regular Reducing Elbows

40	EA	53607	3/4X1/2 90 DEG BLK RED ELBOW	—	—	—
30	EA	53608	1X1/2 90 DEG BLK RED ELBOW	—	—	—
25	EA	53609	1X3/4 90 DEG BLK RED ELBOW	—	—	—
20	EA	53611	1-1/4X3/4 90 DEG BLK RED ELBOW	—	—	—
20	EA	53612	1-1/4X1 90 DEG BLK RED ELBOW	—	—	—
20	EA	53614	1-1/2X1 90 DEG BLK RED ELBOW	—	—	—
15	EA	53613	1-1/2X1-1/4 90 DEG BLK RED ELBOW	—	—	—
14	EA	53617	2X1 90 DEG BLK RED ELBOW	—	—	—
10	EA	53616	2X1-1/4 90 DEG BLK RED ELBOW	—	—	—
10	EA	53615	2X1-1/2 90 DEG BLK RED ELBOW	—	—	—

## 45 Degree Black Street Elbows

40	EA	53548	1/2 45DEG BLK ST ELBOW	—	—	—
60	EA	53554	3/4 45DEG BLK ST ELBOW	—	—	—

## 90 Degree Black Street Elbows

60	EA	53575	1/2 IN 90 DEG BLK ST ELBOW	—	—	—
35	EA	53576	3/4 IN 90 DEG BLK ST ELBOW	—	—	—
30	EA	53577	1 IN 90 DEG BLK ST ELBOW	—	—	—
18	EA	53578	1-1/4 IN 90 DEG BLK ST ELBOW	—	—	—
18	EA	53579	1-1/2 IN 90 DEG BLK ST ELBOW	—	—	—
10	EA	53580	2 IN 90 DEG BLK ST ELBOW	—	—	—
9	EA	53581	2-1/2IN 90 DEG BLK ST ELBOW	—	—	—

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**Black Tees**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
40	EA	53676	1/2IN BLK TEE	—	—	—
35	EA	53677	3/4IN BLK TEE	—	—	—
20	EA	53678	1IN BLK TEE	—	—	—
14	EA	53679	1-1/4IN BLK TEE	—	—	—
23	EA	53680	1-1/2IN BLK TEE	—	—	—
5	EA	53681	2IN BLK TEE	—	—	—

**Black Reducing Tees**

45	EA	53635	3/4X1/2X1/2 BLK TEE	—	—	—
45	EA	53636	3/4X3/4X1/2 BLK TEE	—	—	—
25	EA	53637	3/4X3/4X1 BLK TEE	—	—	—
25	EA	53641	1X3/4X3/4 BLK TEE	—	—	—
20	EA	53638	1X1X1/2 BLK TEE	—	—	—
25	EA	53639	1X1X3/4 BLK TEE	—	—	—
18	EA	53644	1-1/4X3/4X3/4 BLK TEE	—	—	—
18	EA	53647	1-1/4X1X3/4 BLK TEE	—	—	—
16	EA	53650	1-1/4X1-1/4X1/2 BLK TEE	—	—	—
18	EA	53651	1-1/4X1-1/4X3/4 BLK TEE	—	—	—
20	EA	53668	1X1/2X1/2 BLK TEE	—	—	—
20	EA	53669	1X1/2X1 BLK TEE	—	—	—
11	EA	53660	1-1/2X1-1/4X1-1/4 BLK TEE	—	—	—
15	EA	53662	1-1/2X1-1/2X1/2 BLK TEE	—	—	—
8	EA	53670	2X1-1/4X1-1/4 BLK TEE	—	—	—
8	EA	53671	2X1-1/2X1-1/4 BLK TEE	—	—	—

**Black Couplings**

60	EA	53725	1/2IN BLK COUPLING	—	—	—
50	EA	53726	3/4IN BLK COUPLING	—	—	—
25	EA	53727	1IN BLK COUPLING	—	—	—
32	EA	53728	1-1/4IN BLK COUPLING	—	—	—
18	EA	53729	1-1/2IN BLK COUPLING	—	—	—
12	EA	53730	2IN BLK COUPLING	—	—	—
16	EA	53757	2-1/2IN BLK COUPLING	—	—	—
12	EA	53558	3IN BLK COUPLING	—	—	—

**Black Reducing Couplings**

30	EA	53741	3/8X1/4 BLK RED COUPLING	—	—	—
60	EA	53742	3/4X1/2 BLK RED COUPLING	—	—	—
30	EA	53743	1X1/2 BLK RED COUPLING	—	—	—
30	EA	53744	1X3/4 BLK RED COUPLING	—	—	—
25	EA	53745	1-1/4X1/2 BLK RED COUPLING	—	—	—
25	EA	53746	1-1/4X3/4 BLK RED COUPLING	—	—	—
25	EA	53747	1-1/4X1 BLK RED COUPLING	—	—	—
20	EA	53411	1-1/2X1/2 BLK RED COUPLING	—	—	—
30	EA	53748	1-1/2X3/4 BLK RED COUPLING	—	—	—
30	EA	53749	1-1/2X1 BLK RED COUPLING	—	—	—
25	EA	53750	1-1/2X1-1/4 BLK RED COUPLING	—	—	—
21	EA	53551	2X1/2 BLK RED COUPLING	—	—	—
21	EA	53552	2X3/4 BLK RED COUPLING	—	—	—
14	EA	53753	2X1 BLK RED COUPLING	—	—	—
14	EA	53751	2X1-1/4 BLK RED COUPLING	—	—	—
14	EA	53752	2X1-1/2 BLK RED COUPLING	—	—	—
16	EA	53755	2-1/2X1-1/2 BLK RED COUPLING	—	—	—
16	EA	53756	2-1/2X2 BLK RED COUPLING	—	—	—

**Black Caps**

75	EA	53767	1/2IN BLK CAP	—	—	—
40	EA	53768	3/4IN BLK CAP	—	—	—
35	EA	53769	1IN BLK CAP	—	—	—
25	EA	53770	1-1/4IN BLK CAP	—	—	—
25	EA	53547	1-1/2IN BLK CAP	—	—	—
18	EA	53771	2IN BLK CAP	—	—	—

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**Black Bushings**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
75	EA	53527	3/8X1/4 BLK BUSHING	—	—	—
150	EA	53526	1/2X1/8 BLK BUSHING	—	—	—
100	EA	53528	1/2X1/4 BLK BUSHING	—	—	—
100	EA	53529	1/2 X 3/8 BLK BUSHING	—	—	—
50	EA	53530	3/4X1/8 BLK BUSHING	—	—	—
50	EA	53531	3/4X3/8 BLK BUSHING	—	—	—
50	EA	53532	3/4X1/2 BLK BUSHING	—	—	—
50	EA	53533	1X1/2 BLK BUSHING	—	—	—
50	EA	53534	1X3/4 BLK BUSHING	—	—	—
30	EA	53535	1-1/4X1/2 BLK BUSHING	—	—	—
30	EA	53536	1-1/4X3/4 BLK BUSHING	—	—	—
30	EA	53537	1-1/4X1 BLK BUSHING	—	—	—
25	EA	53413	1-1/2X1/2 BLK BUSHING	—	—	—
25	EA	53412	1-1/2X3/4 BLK BUSHING	—	—	—
25	EA	53539	1-1/2X1 BLK BUSHING	—	—	—
25	EA	53540	1-1/2X1-1/4 BLK BUSHING	—	—	—
20	EA	53550	2X1/2 BLK BUSHING	—	—	—
20	EA	53543	2X3/4 BLK BUSHING	—	—	—
20	EA	53544	2X1 BLK BUSHING	—	—	—
20	EA	53545	2X1-1/4 BLK BUSHING	—	—	—
20	EA	53546	2X1-1/2 BLK BUSHING	—	—	—
24	EA	53587	2-1/2X1 BLK BUSHING	—	—	—
28	EA	53520	2-1/2X1-1/2 BLK BUSHING	—	—	—
24	EA	53519	2-1/2X2 BLK BUSHING	—	—	—
16	EA	53524	3X1 BLK BUSHING	—	—	—
16	EA	53523	3X1-1/2 BLK BUSHING	—	—	—
16	EA	53522	3X2 BLK BUSHING	—	—	—
16	EA	53521	3X2-1/2 BLK BUSHING	—	—	—

**Black Unions**

25	EA	53708	1/2IN BLK UNION	—	—	—
20	EA	53709	3/4IN BLK UNION	—	—	—
15	EA	53710	1IN BLK UNION	—	—	—
15	EA	53711	1-1/4IN BLK UNION	—	—	—
10	EA	53712	1-1/2IN BLK UNION	—	—	—
6	EA	53713	2IN BLK UNION	—	—	—
8	EA	53714	2-1/2IN BLK UNION	—	—	—
5	EA	53715	3IN BLK UNION	—	—	—

**Black Regular Plugs**

25	EA	53692	1/2IN BLK REG PLUG	—	—	—
15	EA	53693	3/4IN BLK REG PLUG	—	—	—
20	EA	53694	1IN BLK REG PLUG	—	—	—
40	EA	53695	1-1/4IN BLK REG PLUG	—	—	—
30	EA	53696	1-1/2IN BLK REG PLUG	—	—	—
30	EA	53697	2IN BLK REG PLUG	—	—	—
32	EA	53698	2-1/2IN BLK REG PLUG	—	—	—
24	EA	53699	3IN BLK REG PLUG	—	—	—



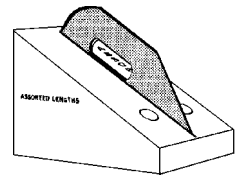
## Galvanized Nipples

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
25	EA	50358	1/2 X CLO GALV NIPPLE	—	—
25	EA	50359	1/2X1 1/2 GALV NIPPLE	—	—
25	EA	50360	1/2X2 GALV NIPPLE	—	—
25	EA	50361	1/2X2 1/2 GALV NIPPLE	—	—
25	EA	50362	1/2X3 GALV NIPPLE	—	—
25	EA	50363	1/2X3 1/2 GALV NIPPLE	—	—
25	EA	50364	1/2X4 GALV NIPPLE	—	—
25	EA	50365	1/2X4 1/2 GALV NIPPLE	—	—
25	EA	50366	1/2X5 GALV NIPPLE	—	—
25	EA	50367	1/2X5 1/2 GALV NIPPLE	—	—
25	EA	50368	1/2X6 GALV NIPPLE	—	—
25	EA	50375	3/4 X CLO GALV NIPPLE	—	—
25	EA	50376	3/4X1 1/2 GALV NIPPLE	—	—
25	EA	50377	3/4X2 GALV NIPPLE	—	—
25	EA	50378	3/4X2 1/2 GALV NIPPLE	—	—
25	EA	50379	3/4X3 GALV NIPPLE	—	—
25	EA	50380	3/4X3 1/2 GALV NIPPLE	—	—
25	EA	50381	3/4X4 GALV NIPPLE	—	—
25	EA	50382	3/4X4 1/2 GALV NIPPLE	—	—
25	EA	50383	3/4X5 GALV NIPPLE	—	—
25	EA	50384	3/4X5 1/2 GALV NIPPLE	—	—
25	EA	50385	3/4X6 GALV NIPPLE	—	—



## Galvanized Steel Nipples In Tote

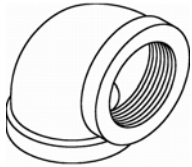
Tote contains lengths from closed to 6 inches.



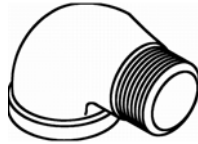
Pieces per Carton	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
60	6	EA	50133	3/4IN GALV NIPPLE TOTE	—	—



## Galvanized Fittings



90° Elbow



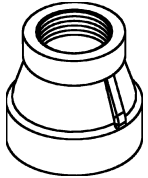
90° Street Elbow



Tee



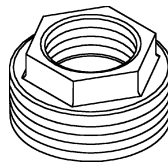
Coupling



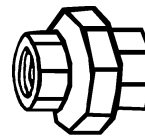
Reducing Coupling



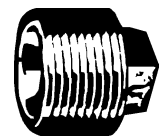
Cap



Bushing



Reducing Coupling



Regular Plugs

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
50	EA	53410	3/4X1/2 GALV BUSH	—	—	—
35	EA	53424	3/4IN 90 DEG GALV REG ELBOW	—	—	—
60	EA	53431	1/2IN 90 DEG GALV ST ELBOW	—	—	—
35	EA	53440	3/4IN GALV TEE	—	—	—
25	EA	53455	1/2IN GALV UNION	—	—	—
20	EA	53456	3/4IN GALV UNION	—	—	—
60	EA	53463	1/2IN GALV COUPLING	—	—	—
50	EA	53464	3/4IN GALV COUPLING	—	—	—
75	EA	53471	1/2IN GALV CAP	—	—	—
40	EA	53472	3/4IN GALV CAP	—	—	—
60	EA	53477	3/4X1/2 GALV RED COUPLING	—	—	—
25	EA	53485	1/2IN GALV REG PLUG	—	—	—
15	EA	53486	3/4IN GALV REG PLUG	—	—	—
40	EA	53553	3/4 45DEG GALV ELBOW	—	—	—



## Cast Iron Fittings

### 90 Degree Black Elbows

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
10	EA	53525	2-1/2 CI 90 DEG BLK ELBOW	—	—	—
6	EA	53588	3IN CI 90 DEG BLK ELBOW	—	—	—

### 90 Degree Black Reducing Elbows

6	EA	53566	3 X 2IN CI 90 DEG BLK RED ELBOW	—	—	—
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### Black Tees

9	EA	53569	2-1/2IN CI BLK TEE	—	—	—
5	EA	53570	3IN CI BLK TEE	—	—	—

### Black Reducing Tees

6	EA	53573	3X2X2IN CI BLK RED TEE	—	—	—
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### Black Reducing Couplings

12	EA	53583	3X2IN CI BLK RED COUPLING	—	—	—
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## Bridgit Lead Free Solder

### Safe for Drinking Water Systems

- 1/8" 1 lb. spool
- Contains nickel for tremendously strong joints
- No Lead
- No Cadium
- No Toxic Chemicals



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	EA	55190	BRGT61 STAY-SAFE BRIDGIT LF SOLDER 1/8" X 1LB SPOOL	—	—	—



## 95/5 Tin Antimony Solder

- Well suited for applications where moderately elevated temperature is a factor
- Lead free\* for use in potable water systems
- Composition: 95% Tin, 5% Antimony
- Tensile Strength: 5900
- Shear Strength: 6000
- Density: .250
- Temperature: Solid 452° F Liquid 464° F

\* Public Safe Drinking Water Act Amendments of 1986. The above amendments were signed into Federal law on 6/19/86, banning the use of all solders containing lead in potable water systems.

NOTE: Not recommended for use on brass or HVAC connections.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9
1	EA	55152	95561 95/5 WIRE SOLDER 1/8" X 1LB SPOOL	—	—



## 50/50 Tin Lead Solder



- Use to join copper and most copper alloys, lead, nickel alloys, and steel.
- Not to be used with potable water systems.
- Composition: 50% Tin, 50% Lead
- Tensile Strength: 6000
- Shear Strength: 5200
- Density: .321
- Temperature: Solid 361 Liquid 421

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	55139	5050TB TRI-BAR 50/50 ROUND SOLDER	—	—
1	EA	55142	50501B 1 LB BAR 50/50 SOLDER	—	—
1	EA	55150	505061 50/50 WIRE SOLDER 1/8" X 1LB SPOOL	—	—
1	EA	55151	505065 50/50 WIRE SOLDER 1/8" X 5LB SPOOL	—	—

# LA-CO® Flux



95441



95445



95446



95453



95456

### Regular Flux Paste

- Contains no zinc chloride or other heavy metal chloride.
- Non-acid, non-toxic, lead-free.
- Use with Lead-Free, Tin/Silver, plus 40/60, 50/50, 60/40, and 95/5 solders.
- Super detergent action, cleans as it solders.
- For use on copper, galvanized iron, sheet lead, zinc, nickel, tin, silver, mild steel, terne plate, and malleable iron.

### Regular Flux Liquid

- Contains no zinc chloride or other heavy metal chloride.
- Non-acid, non-toxic, lead-free.
- Use with Lead-Free, Tin/Silver, plus 40/60, 50/50, 60/40, and 95/5 solders.
- For high-speed production and mechanized soldering equipment.
- For use on copper, galvanized iron, sheet lead, zinc, nickel, tin, silver, mild steel, terne plate, and malleable iron.

### N-3 Stainless Flux Liquid

- Use with all types of tin/lead solders for swift fluxing action.
- Solders most grades of stainless as well as chrome, copper, and brass.
- Packaged in break-resistant polyethylene bottles.
- Do not use on stainless steel water tubing.

### Aluminum Flux Paste

- Low temperature.
- Solders aluminum at low temperatures.
- Use soldering iron or torch with LA-CO® #60 solder or tin/silver solders at well below the melting temperature of aluminum.
- Also solders, copper, making aluminum to copper assemblies possible.

### Flux-Rite 90® Flux

- Completely water soluble.
- Works with all soft solders including all lead-free solders plus 40/60, 50/50, 60/40, and 95/5 solders.
- Non-toxic, lead-free, non-acid.
- No toxic zinc chloride.
- Use with copper, brass, tin, and steel.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
48	EA	54855	95441 2 OZ REG SOLDER PASTE FLUX	—	—
12	EA	55120	95445 QUART REGULAR FLUX LIQUID	—	—
24	EA	55119	95446 PT N-3 FLUX LIQUID	—	—
24	EA	55127	95453 4 OZ ALUM FLUX PASTE	—	—
24	EA	55125	95456 4OZ FLUX-RITE 90 PASTE FLUX	—	—



## Jel-Flux™

Non-petrolatum gel type soldering flux meets ASTM B-813 for water flushable fluxes. Cleans, fluxes, retards oxide formation while heating, and enhancing solder flow. Jel-Flux is lead-free, self-cleaning, and flows easily to provide quick, complete coverage. It is specially formulated to avoid drips and runs during application. For use on most common metals except aluminum and stainless steels.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
36	EA	50712	10810 4 OZ JEL-FLUX NON-PETROLATUM GEL TYPE SOLDERING FLUX	—	—

## Silver Solder Comparison Chart

J.W. Harris Co. Inc.	AWS	Handy & Harman	United Wire	Composition %		Temperature	
				AG	Cu	Melt	Flow
Stay-Silv 15	B Cup-5	Sil-Fos	Phoson 15	15	80	1185	1300
Stay-Silv 5	B Cup-3	Sil-Fos 5	Phoson 5	5	88.75	1185	1300
Brayzon				1	92	1190	1485
Dynaflow				6	87.9	1190	1460
Stay-Brite	(SN96)			5		430	430
Stay-Brite 8	QQS-561d			7		430	535
Safety-Silv 1375	BAG-5	Braze 450	Sil-45	25	41	1265	1400
Safety-Silv 1370	BAG-5	Braze DE			30	1230	1370



### Stay-Silv Silver Solder



Use for copper to copper without flux. For copper to brass use flux. Stay-Silv 15 and Stay-Silv 5 have similar flow point, tensile strength, and ductility. Use economical 5% for close fitted joints, 15% for poorly fitted or large tolerance joints. Stay-Silv 15 may also be used to braze silver, tungsten, and molybdenum, but requires the use of Stay-Silv brazing flux. 15% silver alloy, 1/8" x .050 x 20", 27 sticks per lb. Will not harden or crystallize.

For all silver soldering in 1000° to 1700° F heat range. Packed in plastic containers for safety and convenience.

#### Mini-Pak

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PKG	55178	1520FMPOP STAY-SILV 15 SOLDER 1/8" X 7 STICK MINI-PAK	—

#### 1 Lb. Packages

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	PKG	55183	15620F1 STAY-SILV 15 SOLDER 1LB 1/8" X 28 STICK TUBE	—	—	—
1	PKG	55186	5620F1 STAY-SILV 5 SOLDER 1LB 1/8" X 28 STICK TUBE	—	—	—

#### 5 Lb. Packages

1	PKG	55184	15620F5 STAY-SILV 15 SOLDER 5LB 1/8" X 20 STICK TUBE	—	—	—
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### Stay-Silv Brazing Flux

For use with all silver brazing alloys on all metals other than aluminum, magnesium, or titanium. Effective to 1600° F. Meets Fed. Spec. of 499C, Type-B. AWS 3A, AMS 3410, MIL 51F4A. Brush cap dispenser.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	55195	SSWF7 STAY-SILV WHITE FLUX 6.5 OZ BOTTLE	—	—





## Stay-Brite Silver Solder



### Stay-Brite

Has the same ability as Stay-Silv to bond with ferrous and non-ferrous alloys (SST, nickel, copper, and brass). Highly recommended for close fitting joints due to flow characteristics.

### Stay-Brite 8

Has the same characteristics as Stay-Brite but a greater silver content. It gives a plastic range from 430° to 535° that allows its use in loose joints or fill-up connections.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	EA	55177	SB31 STAY BRITE 1/16" X 1LB SPOOL	—	—	—
1	EA	55176	SB61 STAY BRITE 1/8" X 1LB SPOOL	—	—	—
1	EA	55175	SB831 STAY BRITE 8 SOLDER LEAD FREE 1/16 X 1LB SPOOL	—	—	—
1	EA	55174	SB861 STAY BRITE 8 SOLDER LEAD FREE 1/8" X 1LB SPOOL	—	—	—



## Stay-Clean Soldering Flux

For virtually all metals other than aluminum, magnesium, or titanium. Use with Stay-Brite solders, also solder 500, practically any other solder liquids below 700° F. Meets Fed. Spec. of 506B, type I, Form B.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
48	EA	55179	SCLF4 STAY-CLEAN LIQUID FLUX 4 OZ JAR	—	—
24	EA	55180	SCLF16 STAY-CLEAN LIQUID FLUX 16 OZ JAR	—	—
24	EA	55185	SCPF4 STAY CLEAN PASTE FLUX 4 OZ JAR	—	—



## Dynaflow Silver Solder



Dynaflow melts, flows, and fills like a 15% silver alloy. Dynaflow was formulated to extremely exacting tolerances of copper, phosphorus, and silver, resulting in a quality brazing alloy that mirrors the performance characteristics of a 15% silver alloy, yet costs less than half as much. Flux not required for copper, when required use Stay-Silv white brazing flux on applications requiring normal heat.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	PKG	55189	D620F1 DYNAFLOW BRAZING FLUX 1LB 1/8" X 28 STICK TUBE	—	—	—



## Safety-Silv 1370 Solder

**Cadmium Free: Required When Brazing Around Food**



This filler metal offers good joint strength and ductility at a somewhat higher temperature. The plastic range is an advantage when filling loose connections. Melts: 1230° F. Flows: 1370° F.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	PKG	55192	4531 SAFETY-SILV 45% SOLDER 1/16" X 1 TO PACKAGE	—	—	—
1	PKG	55193	4535 SAFETY-SILV 45% SOLDER 1/16" X 5 TO PACKAGE	—	—	—
4	PKG	55197	45F318MPOP SAFETY-SILV 45% SOLDER 1/16 X 18 MINI-PAK	—	—	—



## Blockade Silicon Brazing Alloy

For Copper and Brass



Blockade™ is the first in a new family of silicon brazing alloys: phosphorus/copper brazing alloys alloyed with silicon. Engineered to join copper, brass, and bronze. Blockade's innovative composition supports the operator with:

- Faster brazing: 228° F lower temperature than phosphorus/copper 0.
- Ability to easily form a large cap or shoulder at the braze connection.
- Silver-gray cap provides a highly visible filler which provides instant, visual confirmation of a leak-free seal.
- Improved ductility over BCuP-2 (phosphorus/copper 0) brazing alloys.
- Eliminates need for silver to join copper to brass and brass to brass (use Stay-Silv, White Brazing Flux).

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PKG	55187	BK220R1 BLOCKADE SILICON BRAZING 2MM X 20 STICK TUBE	—

## Sandcloth



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	54632	SCM-5 5YD ROLL MESH CLOTH	—
24	EA	54633	SC-10 10YD ROLL SANDCLOTH	—



## Flux Brush



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
144	EA	55134	C33808-CTN 1/2" FLUX BRUSH	—	—



## Red Epoxy



- Heat cured, 2-part epoxy kit.
- Exhibits a color change when cured (turns gold).
- May be cured with a hot air gun or open flame in minutes.
- -100° F to 300° F, (-73° C) to (149° C).
- Working pressure in excess of 3000 PSI.
- Tensile Strength: 6000 PSI.
- Works on vertical surfaces.
- Pressure tested to 3000 PSI.
- Simple, quick mixing and application.
- Oil, gas, fuel and solvent resistant.
- Equipment is serviceable immediately.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94878	HS12001 RED EPOXY	—

**LA-CO**<sup>®</sup>**Heat-Seal Stik**

This is an epoxy stick that does not require mixing and is easy to use. Simply touch stick to heated surface. Melts and cures in one operation; works in 90 seconds. Repairs holes on aluminum, metals, glass, ceramics. Cured repair is resistant to refrigerants, oils, and water. Holds pressure to 450 psi.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	54856	95430 3/8 OZ CARDED HEAT SEAL STICK	—	—

**LA-CO**<sup>®</sup>**Bloc-It Absorbing Paste**

Effectively absorbs surface heat. Protects adjoining surfaces that may be damaged by excessive heat. Safe to use: non-toxic, no asbestos, harmless to skin, and odorless. Apply directly to surface from tube. Wipe-off with cloth or wash with water. Leaves no stains. During brazing or welding Bloc-It protects rubber and plastic components in valves; protects painted or finished surfaces; and prevents distortion to light gauge metals.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	55115	95455 10OZ BLOC-IT HEAT ABS PASTE	—	—

**Nu-Calgon Thermo-Trap<sup>®</sup>**

Thermo-Trap is a heat sink that has an extremely high capacity for absorbing heat. Use Thermo-Trap to:

- Apply to copper, steel or other pipe surfaces before welding, brazing or soldering to protect nearby sensitive controls or components.
- Protect adjacent surface areas from over-heating or damage prior to welding, brazing or soldering.
- Cool down heated surfaces.
- Prevent fires in adjacent areas when welding, brazing or soldering.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	95970	4371-36 11 OZ TUBE THERMO-TRAP PASTE	—	—
6	EA	96003	4371-32 1 QT 32 OZ SPRAY BOTTLE THERMO-TRAP GEL	—	—

**Nu-Calgon Quick-Seal™ Pipe Repair Kit**

- Quick Seal is a fast, easy, durable and cost effective pipe repair system.
- Hardens in minutes.
- Bonds to any pipe material.
- Suitable for refrigerant lines.
- Repairs T-joints and elbow joints.
- Safe for drinking water.

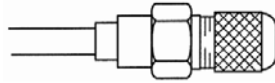
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	95971	4299-10 2IN X 3FT QUICK SEAL PIPE REPAIR	—	—



## 1/4" Access Valves



A31002, A31006



A31011



A31134, A31148



A31199, A31204



A31424



A31444



A31482, A31484



A31492



A31514



A31720



A31722, A31726



A31729



A31851, A31864



A31852



A31986



A34000

### Copper Extension Valves

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	PKG	55793	A31005 5/16 IN FTG 5/PKG	—
3	PKG	55794	A31011 3/16-1/4&3/8 FTG 3/PKG	—
5	PKG	55803	A31002 1/8 IN FTG 5/PKG	—
5	PKG	55809	A31003 3/16 IN FTG 5/PKG	—
5	PKG	55810	A31004 1/4 IN FTG 5/PKG	—
5	PKG	55813	A31006 3/8 IN FTG 5/PKG	—

### Copper Solder Tees

3	PKG	55806	A31134 1/4 IN TEE 3/PKG	—
3	PKG	55807	A31135 5/16 IN TEE 3/PKG	—
3	PKG	55808	A31136 3/8 IN TEE 3/PKG	—
1	PKG	55819	A31140 5/8 IN TEE 1/PKG	—
1	PKG	55820	A31142 3/4 IN TEE 1/PKG	—
1	PKG	55821	A31144 7/8 IN TEE 1/PKG	—
1	PKG	55822	A31148 1-1/8 IN TEE 1/PKG	—
1	BOX	55824	A31134-100 1/4 IN TEE 100/PKG	—

### Copper Access Unions

2	PKG	55842	A31199 1/4X1/4 ACCESS UNION 2/PKG	—
2	PKG	55843	A31200 3/8X3/8 ACCESS UNION 2/PKG	—
2	PKG	55844	A31201 1/2X1/2 ACCESS UNION 2/PKG	—
2	PKG	55845	A31202 5/8X5/8 ACCESS UNION 2/PKG	—
2	PKG	55847	A31204 7/8X7/8 ACCESS UNION 2/PKG	—

### Flared Tube Connections

3	PKG	55795	A31424 1/4 IN UNION W/FL NUT 3/PKG	—
3	PKG	55796	A31444 1/4 IN TEE W/NUTS 3/PKG	—

### MPT Connections

3	PKG	55797	A31492 1/8 IN ELBOW 3/PKG	—
3	PKG	55798	A31514 1/4 IN RUN 3/PKG	—
5	PKG	55815	A31482 1/8 IN UNION 5/PKG	—
5	PKG	55816	A31484 1/4 IN UNION 5/PKG	—

### Brass Bodies—Multi-step

5	PKG	55802	A31720 3/16 IN FTG 5/PKG	—
3	PKG	55812	A31729 3/16-1/2 IN FTG 3/PKG	—

Continued on the Following Page

Continued from the Previous Page

**Brass Bodies—Straight**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
3	PKG	55799	A31722 1/8-1/4 IN FTG 3/PKG	—
3	PKG	55804	A31725 5/16 IN FTG 3/PKG	—
3	PKG	55805	A31726 3/8 IN FTG 3/PKG	—
3	PKG	55811	A31724 1/4 IN FTG 3/PKG	—

**Swivel Flare Connection**

3	PKG	55800	A31864 1/4 IN SWIVEL NUT 3/PKG	—
3	PKG	55817	A31851 1/4 IN SWIVEL TEE 3/PKG	—
3	PKG	55818	A31852 1/4 IN SWIVEL TEE 3/PKG	—

**Seal Cap**

5	PKG	55814	A31986 1/4" WRENCH STYLE SEAL CAP 5/PKG	—
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**Quick Coupler Access Tee**

1	EA	55823	A34000 1/4" QUICK COUPLER ACCESS TEE	—
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**Access Core Accessories**



A32004



A32008



NFT5



QC-E4



QC-S4B



QC-S5

**Valve Core Tools**

A32004: for 1/4" valves

A32008: 1/4" valve core torque tool.

**Quick Seal Caps**

NFT5-4: 1/4"SAE

NFT5-6: 3/8"SAE

**Quick Coupler Valves**

1/4" SAE flare connections straight or elbow

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	EA	83065	A32004 VALVE CORE TOOL	—
12	EA	83173	A32008-BX VALVE CORE TORQUE TOOL	—
10	PKG	54799	NFT5-4 1/4" QUICK SEAL CAP 10/PKG	—
3	PKG	54800	NFT5-6 3/8" QUICK SEAL CAP 3/PKG	—
1	EA	54798	QC-E4 ELBOW COUPLING	—
1	EA	54801	QC-S4B QUICK COUPLER ACCESS VALVE	—
1	EA	54797	QC-S4 STRAIGHT COUPLING	—
1	EA	54796	QC-S5 STRAIGHT QUICK COUPLER	—



## Access Cores and Piercing Valves

### Access Cores

Steel pin with core, penetrates line and is locked into valve body in one operation, simply by tightening cap.

The CD4444 is constructed of Teflon™ material. Compatible with all refrigerants.

### Piercing Valves

A copper to copper brazed line tap valve. The saddle is soldered to high or low side system tubing. The valve is then screwed into saddle to pierce the line giving access to the system through a standard access valve core. Furnished complete with 1/4" quick seal cap.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PKG	93602	CD5514 1/4IN PIERCE VLV 6/PKG	—
1	PKG	93603	CD5516 5/16IN PIERCE VLV 6/PKG	—
1	PKG	93605	CD5538 3/8IN PIERCE VLV 6/PKG	—
1	PKG	93601	CD5512 1/2IN PIERCE VLV 4/PKG	—
1	PKG	93606	CD5558 5/8IN PIERCE VLV 3/PKG	—
1	PKG	93604	CD5534 3/4IN PIERCE VLV 2/PKG	—
6	PKG	93610	CD4460/6 ACCESS CORE 6/PKG	—



## Service Kits



### CD9510SVK Access Fitting Service Kit

Contains a section of valve cores, access tees, line service valves, adapters, and tools.



### CD9580SVK Deluxe Refrigeration Kit Service Kit

Contains an assortment of valve cores, access tees, line service valves, adapters, brass caps, and tools in a variety of sizes and styles.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	KIT	93619	CD9510SVK ACCESS FITTINGS SERVICE KIT	—
1	KIT	93620	CD9580SVK DELUXE REFRIGERATION KIT	—



## Access Core Accessories



CD3930

### CD3930 Core Removal Tool

Ball valve core removal tool for use on 1/4" flare access fitting. Has 1/4" male side port for attaching hose or gauge.



CD4311

### CD4311 "FasTap" Piercing Pliers

Clamp on and pierce tubing from 1/4" to 7/8". Self-sharpening piercing tip.



CD5050

### CD5050 Thumbscrew Core Depressor

For 1/4" male flare.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	93611	CD3930 CORE REMOVAL TOOL (BALL VALVE)	—
1	EA	93613	CD4311 "FASTAP" TUBE PIERCING PLIERS	—
1	EA	93608	CD5050 THUMBSCREW CORE DEP	—



## Core Remover Tool With Port



- Remove and replace valve cores without losing system charge
- Speeds up evacuation, recovery or recharging with full unrestricted flow
- Includes side port for vacuum measurement

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	54806	A32525N 1/4 IN VALVE CORE REMOVER TOOL W/PORT	—



## Bullet Piercing Valves

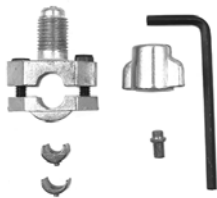
Taps water, gas, steam or air line in two minutes with no shut down! Install on the high side as a permanent valve on the job. Install on round suction lines or uneven tubing. The patented valve gasket application provides 50 times more sealing than "O" ring types.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94858	BPV36 3/16IN VALVE	—
1	EA	94859	BPV14 1/4IN VALVE	—
12	EA	94860	BPV56 5/16IN VALVE	—
1	EA	94861	BPV38 3/8IN VALVE	—
8	EA	94862	BPV21 2IN1 1-1/2-5/8 VALVE	—
8	EA	94863	BPV12 1/2IN VALVE	—
8	EA	94864	BPV58 5/8IN VALVE	—
1	EA	94865	BPV34 3/4IN VALVE	—
1	EA	94866	BPV78 7/8IN VALVE	—
12	EA	94870	BPV31 3IN1 1/4-5/16-3/8 VALVE	—



## MAC Line Piercing Valves



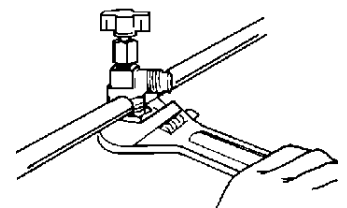
Install valve. Connect charging hose. Service. That's all there is to it! MAC features uniport; one connection for both piercing and servicing. Sealed with refrigerant resistant "O" rings. Needle automatically back-seats after servicing, leaving line free of restriction. Connect to tubing with 2 socket-head screws. (Hex wrench is included with each valve.) Needle depressor is inserted into head of needle. Wing cap is turned down easily by hand until line is pierced. Wing cap is removed and system may be serviced with any charging hose with built-in depressor. When hose is removed, spring loaded needle back-seats forming a leak proof seal. Needle depressor is discarded and wing cap forms extra precautionary seal.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
36	EA	95232	QTM-1 1/4,5/16,3/8IN OD LINE TAP VALVE	—	—
36	EA	95233	QTM-2 1/2,5/8IN OD LINE TAP VALVE	—	—



## Tube Piercing Valve

O.D. Tube Size: 3/16, 1/4, 5/16, 3/8.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	EA	55421	EZ-40288 TUBE PIERCING VALVE	—





## PVC Drain-Waste-Vent Pipe and Fittings for AFUE 90+ Furnaces



Hub x Hub 90° Extra



Spigot x Hub 90°



22-1/2° Elbow



45° Elbow



45° Street Elbow



Tee

### Vent Pipe-DWV PVC Pipe

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 10-99	PC-2 100-499	PC-3 500
1400	FT	57004	70021-N 2X10 DWV PIPE	—	—	—
750	FT	57006	70031-N 3X10 DWV PIPE	—	—	—
1500	FT	57007	310257 2 1/2X10 PVC PIPE	—	—	—
540	FT	57180	70041N 4X10 DWV PIPE	—	—	—

### Vent Pipe-DWV Cellular Core

1400	FT	57002	70021F 2X10 DWV-CELLULAR CORE PIPE	—	—	—
750	FT	57003	70031F 3X10 DWV-CELLULAR CORE PIPE	—	—	—

**NOTE:** Only for use with non-pressurized applications. Approved for furnace venting only.

### 2 Inch Fittings

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
20	EA	57164	73620 2IN PVC DWV 45 EL (HUBXHUB)	—	—	—
20	EA	57174	72720 2IN PVC DWV 45 ST EL(HUBXSPG)	—	—	—
20	EA	57150	73820 2IN PVC DWV LONG 90 EL (HUBXHUB)	—	—	—
20	EA	57295	70820 2IN PVC DWV 22 1/2 EL(HUBXHUB)	—	—	—
20	EA	57296	75820 2IN PVC DWV 22 1/2 EL(HUBXSPG)	—	—	—
20	EA	57155	72926 2IN PVC DWV 90 ST EL (HUBXSPG)	—	—	—
20	EA	57130	71120 2IN PVC DWV TEE (HUBXHUBXHUB)	—	—	—
10	EA	57161	30320 2IN PVC FEMALE ADAPTER (SLPXIFP)	—	—	—
10	EA	57162	30420 2IN PVC MALE ADAPTER (SLPXMIP)	—	—	—
20	EA	57290	70121 2X1 1/2 PVC DWV RED (HUBXHUB)	—	—	—
20	EA	57294	70132 2X3 PVC DWV RED (HUBXHUB)	—	—	—
10	EA	57525	30120 2IN PVC COUPLING (SLPXSLP)	—	—	—

### 2-1/2 Inch Fittings

10	EA	54076	30790 2-1/2IN(NOT FOR VENTING) PVC 90 EL(SLPXSLP)	—	—	—
10	EA	54077	30292 2-1/2X2IN PVC RED BUSH (SPGXSLP)	—	—	—
10	EA	57565	30690 2 1/2 PVC 45 EL(SLPXSLP)	—	—	—
10	EA	57585	30190 2 1/2 PVC CPLG (SLPXSLP)	—	—	—

**Note** For 2-1/2 inch venting it is recommended that two 45° elbows be used in place of one 90° elbow due to the sharp radius of the 90° elbow.

### 3 Inch Fittings

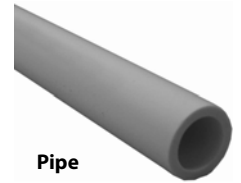
20	EA	57166	70630 3IN PVC DWV 45 EL (HUBXHUB)	—	—	—
20	EA	57175	72730 3IN PVC DWV 45 ST EL (HUBXSPG)	—	—	—
20	EA	57156	72936 3IN PVC DWV 90 ST EL (HUBXSPG)	—	—	—
20	EA	57171	70830 3IN PVC DWV 22 1/2 EL (HUBXHUB)	—	—	—
20	EA	57172	75830 3IN PVC DWV 22 1/2 EL (HUBXSPG)	—	—	—
20	EA	57131	71130 3IN PVC DWV TEE (SLPXSLPXSLP)	—	—	—
10	EA	54051	30239 3X2-1/2 PVC RED BUSH(SPGXSLP)	—	—	—
20	EA	57151	73830 3IN PVC DWV LONG 90 EL(HUBXHUB)	—	—	—
10	EA	57526	30130 3IN PVC COUPLING (SLPXSLP)	—	—	—

### 4 Inch Fittings

10	EA	57178	70640 4IN PVC DWV 45 EL (HUBXHUB)	—	—	—
10	EA	57179	72740 4IN PVC DWV 45 ST EL (HUBXSPG)	—	—	—
10	EA	57176	73840 4IN PVC DWV LONG 90 EL (HUBXHUB)	—	—	—
10	EA	57177	72946 4IN PVC DWV 90 ST EL	—	—	—
5	EA	57181	30140 4IN PVC COUPLING (SLPXSLP)	—	—	—
20	EA	57182	70143 4"X3" PVC RED CPLG (HUBXHUB)	—	—	—



# PVC Pipe and Fittings



Pipe



90° Elbow

45° Elbow

Coupling

- Used in cold water applications only.
- For condensate drain lines.
- Fittings meet ASTM-D2466.
- Use only Teflon paste or tape on threads.
- Arctic Weld for use in freezing temperatures.

## 1/2 Inch Pipe

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-99	PC-2 100-499	PC-3 500
100	FT	54050	31005 1/2X10 PVC PIPE	—	—	—

## 1/2 Inch Fittings

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
10	EA	57008	30155 1/2 PVC CAP (SLP)	—	—	—
10	EA	57520	30705 1/2 PVC 90 EL (SLPXSLP)	—	—	—
25	EA	57521	30105 1/2 PVC CPLG (SLPXSLP)	—	—	—
10	EA	57522	30605 1/2 PVC 45 EL (SLPXSLP)	—	—	—
10	EA	57523	31405 1/2 PVC TEE (SLPXSLPXSLP)	—	—	—

## 3/4 Inch Pipe

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-99	PC-2 100-499	PC-3 500
4000	FT	54052	31007 3/4X10 PVC PLASTIC PIPE SDR 21	—	—	—

## 3/4 Inch Fittings

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
50	EA	53556	30376 3/4X1 RED FEMALE PVC ADAPTER	—	—	—
10	EA	53557	30476 3/4X1 RED MALE PVC ADAPTER	—	—	—
25	EA	54054	30107 3/4 IN PVC COUPLING (SLPXSLP)	—	—	—
10	EA	54057	30407 3/4 IN PVC MALE ADAPT (SLPXMP)	—	—	—
50	EA	54058	30175 3/4X1/2 PVC RED CPLG (SLIPXSLIP)	—	—	—
10	EA	54060	30307 3/4 IN PVC FM ADAPTER(SLPXFIP)	—	—	—
50	EA	54061	32907 3/4 IN PVC 90 ST EL (SLPXSPG)	—	—	—
10	EA	54062	31407 3/4 IN PVC TEE (SLPXSLPXSLP)	—	—	—
10	EA	54063	30707 3/4 IN PVC 90 DEG EL(SLPXSLP)	—	—	—
10	EA	54064	30607 3/4 IN PVC 45 DEG EL(SLPXSLP)	—	—	—
10	EA	54074	30475 3/4X1/2 MPT ADAPT(SLPXMIP)	—	—	—
10	EA	57163	30157 3/4IN PVC CAP (SLP)	—	—	—
10	EA	57165	31807 3/4 IN PVC PLUG	—	—	—
20	EA	57568	37207 3/4 IN PVC UNION (SLIP X SLIP)	—	—	—
50	EA	57588	32807 3/4 IN PVC 90 ST EL (SLIPXMIP)	—	—	—

## 1 Inch Pipe

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 10-99	PC-2 100-499	PC-3 500
2400	FT	57169	310107-N 1X10 PVC PIPE	—	—	—

## 1 Inch Fittings

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
10	EA	57009	30158 1IN PVC CAP	—	—	—
10	EA	57012	31410 1IN PVC TEE	—	—	—
10	EA	57149	30610 1IN PVC 45 ELBOW	—	—	—
10	EA	57152	30710 1IN PVC 90 ELBOW(SLPXSLP)	—	—	—
10	EA	57153	30110 1IN PVC COUPLING	—	—	—
10	EA	57154	30310 1IN PVC FEMALE ADAPTER (SLPXFIP)	—	—	—
10	EA	57157	30410 1IN PVC MALE ADAPTER (SLPXMP)	—	—	—
10	EA	57158	30220 1X2IN PVC BUSHING (SPGXSLP)	—	—	—
50	EA	57159	30117 1X3/4IN PVC REDUCER	—	—	—

## 1-1/4 Inch Pipe

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 10-99	PC-2 100-499	PC-3 500
1800	FT	57168	310117-N 1 1/4X10 PVC PIPE	—	—	—

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**1-1/4 Inch Fittings**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
25	EA	57010	30159 1 1/4IN PVC CAP	—	—	—
10	EA	57142	30714 1 1/4IN PVC 90 ELBOW	—	—	—
25	EA	57143	30114 1 1/4IN PVC COUPLING	—	—	—
25	EA	57144	30314 1 1/4IN PVC FEMALE ADAPTER	—	—	—
25	EA	57145	30414 1 1/4IN PVC MALE ADAPTER	—	—	—
10	EA	57146	31414 1 1/4IN PVC TEE	—	—	—
10	EA	57147	30614 1 1/4IN PVC 45 ELBOW	—	—	—
10	EA	57148	30224 1 1/4X2IN PVC RED BUSHING (SPGXSLP)	—	—	—

**1-1/2 Inch Pipe**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 10-99	PC-2 100-499	PC-3 500
1800	FT	57167	70011-N 1 1/2X10 PVC PIPE	—	—	—

**1-1/2 Inch Fittings**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
10	EA	57011	30151 1 1/2IN PVC CAP	—	—	—
10	EA	57133	30715 1 1/2IN PVC 90 ELBOW	—	—	—
10	EA	57134	30615 1 1/2IN PVC 45 ELBOW	—	—	—
10	EA	57135	30115 1 1/2IN PVC COUPLING	—	—	—
10	EA	57136	30315 1 1/2IN PVC FEMALE ADAPTER	—	—	—
10	EA	57138	30415 1 1/2IN PVC MALE ADAPTER	—	—	—
10	EA	57139	31415 1 1/2IN PVC TEE	—	—	—
25	EA	57140	34250 1 1/2X1IN PVC BUSHING (SPGXFIP)	—	—	—
10	EA	57141	30254 1 1/2X1 1/4IN PVC BUSHING (SPGXSLP)	—	—	—
20	EA	57290	70121 2X1 1/2 PVC DWV RED (HUBXHUB)	—	—	—



**P, R and J Traps**



P-Trap



R-Trap



J-Trap

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	54056	MA-12537/0356 3/4 IN PVC P-TRAP	—
1	EA	54055	MA-12547/0357 3/4 IN PVC R-TRAP	—
1	EA	54053	MA-12548/13655 3/4 IN PVC J-TRAP	—



## CPVC Pipe and Fittings



Pipe



90° Elbow



Coupling

### Pipe

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-99	PC-2 100-499	PC-3 500
100	FT	57528	50005 1/2 X 10 CPVC PIPE	—	—	—

### Fittings

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
20	EA	57530	51405 1/2 CPVC TEE	—	—	—
20	EA	57531	50705 1/2 CPVC 90 ELB	—	—	—
20	EA	57532	50605 1/2 CPVC 45 ELB	—	—	—
20	EA	57533	50105 1/2 CPVC CPLG	—	—	—
20	EA	57587	50405 1/2IN CPVC MALE ADAPT	—	—	—



## Plastic Tube and Fittings



350107



79320/79323



370407

Plastic Tube meets ASTM D-2239-83 Standards. NSF Rating is for potable water. Not rated for gas (natural or propane).

- Size: 3/4"
- Diameter: Outside: .944 Inside: .824
- Minimum Wall: .060
- Weight/100 ft.: 8.1
- Max PSI @ 73.4° F: 100
- Coil Length: 100/400

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	CL	54011	910071 3/4 IN 100 FT COIL PLASTIC TUBE	—
10	EA	54014	350407 3/4 IN PLAST INSERT MALE ADAPTER	—
10	EA	54017	370407 3/4 IN STEEL MALE ADAPTER	—
10	EA	54021	350107 3/4 IN INSERT COUPLING	—
10	EA	54026	351407 3/4 IN INSERT TEE	—
10	EA	54030	350707 3/4 IN INSERT ELBOW	—
10	EA	54032	351481 3/4X3/4X1/2 PLASTIC TEE	—
10	EA	54034	79320 3/8X7/8 CLAMP	—
10	EA	54035	79323 1/2 X 1 1/4 CLAMP	—

# Oatey® PVC/CPVC Cement, Primer, and Cleaner



30757



30795



30821



31014

## Oatey Purple Primer

Oatey purple primer is recommended for use on PVC and CPVC pipe and fittings, all schedules and diameters. This purple tinted aggressive primer is formulated to remove surface dirt, grease and grime, as well as soften the pipe surface to allow for a fast, secure, and permanent solvent weld. For use in areas where code calls for verification that a primer has been used. Exceeds ASTM F-656.

## Oatey All Purpose Cleaner

Oatey all purpose cleaner is recommended for use on ABS, PVC, and CPVC pipe and fittings, all schedules and diameters. This fast acting cleaner removes surface dirt, grease, and grime. Flows freely and evaporates quickly. Does not penetrate pipe surface. Apply at temperatures 40° F to 100° F.

## Oatey All-Purpose Clear Cement

Oatey heavy duty cement is recommended for use on PVC pipe and fittings up to 12" diameter for schedule 40 and schedule 80 potable water pressure pipe, gas, conduit, drain waste, and vent pipe. Provides a thick layer of cement on the pipe. Apply at temperatures 40° F to 100° F. This clear cement helps to fill gaps in larger diameter pipe and loose fitting joints. Exceeds ASTM D-2564.

## Oatey Regular PVC Cement, Clear

Oatey regular cement is recommended for use on PVC pipe and fittings up to 4" for DWV or schedule 40 and up to 2" to schedule 80 potable water pressure pipe, gas, conduit, drain waste, and vent pipe. It flows freely and sets up quickly. Apply at temperatures 40° F to 100° F. Exceeds ASTM D-2564.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
24	EA	50826	30757 16 OZ PURPLE PRIMER & CLEANER	—	—	—
24	EA	50829	30795 16 OZ PVC ALL-PURPOSE CLEAR CLEANER	—	—	—
24	EA	50830	30821 8 OZ ALL PURPOSE CEMENT WITH BRUSH	—	—	—
24	EA	50827	31014 16 OZ PVC REGULAR CLEAR CEMENT WITH BRUSH	—	—	—



## Arcticweld PVC Cement



For use in freezing temperatures with PVC. Labeling conforms to the Consumer Protection Agency requirements. ASTM D2564.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 10 CTNS
6	EA	54046	14415 1 PT ARCTICWELD	—	—	—

## Nu-Calgon Seal-Loc



Seal-Loc is a high performance, multi-purpose thread sealant for use on plastic and metal pipe fittings. It sets soft and no cure time is required. Never hardens, cracks, or separates, and is non-hazardous, non-flammable and gives off no odors. Use with CFCs, HCFCs and HFCs as well as most gases and liquids.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	95931	4350-04 4 FLUID OZ CAN SEAL-LOC PIPE JOINT SEALANT	—	—

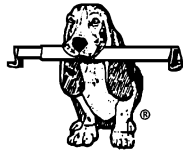


## Leak Lock Pipe Joint Compound



- Resistant to all refrigerants, oils, water and most chemicals, liquids, and gases.
- Resin based
- Soft-setting
- Brushable paste
- Use with pressures to 10,000 PSI to full vacuums.
- Temperature range: -200 to 400° F.
- Ideal for joining all metals, plastics, and other materials.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	94883	HS10001 1-1/3OZ TUBE LEAK LOCK	—	—
12	EA	94884	HS10004 4OZ BRUSH TOP LEAK LOCK	—	—



"BASSET BRACKET"  
Contractor's Best Friend

## Wire Pipe Hooks

For 1-1/4" OD pipe or tubing (or smaller).

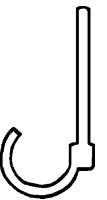


STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
50	EA	13385	PWS-9 GA. 1X6 PLAIN WIRE PIPE HOOK	—	—



## Swivel Hangers

For Hanging PVC or DWV Pipe from Floor Joist



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
25	EA	13380	SH-2 2 IN SWIVEL HANGER	—	—
25	EA	13381	SH-3 3 IN SWIVEL HANGER	—	—



## Kut-All Cutter For Plastic Tube and Hose

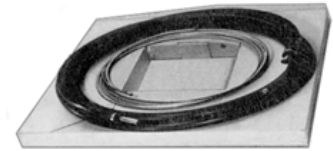


Tough, durable nylon. Blade closes into its own handle for safe handling. Replaceable high carbon, teflon coated steel blades. Ideal for cutting up to 1-1/8" I.D. plastic tubing, reinforced plastic tubing, rigid plastic pipe, and rubber hose.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82115	PK-2 PIPE & TUBE CUTTER	—
1	EA	82116	PK-2B REPLACEMENT BLADES F/PK-2	—



## Insulated Plain End Line Sets



Copper line sets for split-system air conditioning systems and heat pumps. Tubing is refrigeration-quality soft copper with a holding charge and sealed with sulphur-free rubber plugs. Insulation is high quality closed cell; the same as used by OEMs. The uniformly round copper tubing readily accepts sweat, flare, or compression-type fittings. These sets are sealed and have a slight holding charge, insuring a clean moisture-free refrigeration line. They have a closed 90° bend on one end.

### 3/8" Insulation

Length (Ft.)	Suction Line	Liquid Line	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
25	5/8	5/16	14	EA	54644	51080250 -25FT 5/8S 5/16L 3/8I COPPER LINE SET	—	—
25	5/8	3/8	14	EA	54657	61080250 -25FT 5/8S 3/8L 3/8I COPPER LINE SET	—	—
25	3/4	5/16	12	EA	54664	51280250 -25FT 3/4S 5/16L 3/8I COPPER LINE SET	—	—
25	3/4	3/8	12	EA	54668	61280250 -25FT 3/4S 3/8L 3/8I COPPER LINE SET	—	—
25	7/8	3/8	12	EA	54671	61480250 -25FT 7/8S 3/8L 3/8I COPPER LINE SET	—	—
25	1-1/8	3/8	8	EA	54680	61880250 -25FT 11/8S 3/8L 3/8I COPPER LINE SET	—	—
35	5/8	3/8	8	EA	54658	61080350 -35FT 5/8S 3/8L 3/8I COPPER LINE SET	—	—
35	3/4	3/8	8	EA	54669	61280350 -35FT 3/4S 3/8L 3/8I COPPER LINE SET	—	—
35	7/8	3/8	8	EA	54674	61480350 -35FT 7/8S 3/8L 3/8I COPPER LINE SET	—	—
50	5/8	5/16	8	EA	54647	51080500 -50FT 5/8S 5/16L 3/8I COPPER LINE SET	—	—
50	5/8	1/4	8	EA	54655	41080500 -50FT 5/8S 1/4L 3/8I COPPER LINE SET	—	—
50	5/8	3/8	8	EA	54661	61080500 -50FT 5/8S 3/8L 3/8I COPPER LINE SET	—	—
50	3/4	5/16	7	EA	54667	51280500 -50FT 3/4S 5/16L 3/8I COPPER LINE SET	—	—
50	3/4	3/8	7	EA	54670	61280500 -50FT 3/4S 3/8L 3/8I COPPER LINE SET	—	—
50	7/8	3/8	7	EA	54673	61480500 -50FT 7/8S 3/8L 3/8I COPPER LINE SET	—	—
50	1-1/8	3/8	5	EA	54682	61880500 -50FT 11/8S 3/8L 3/8I COPPER LINE SET	—	—

### 1/2" Insulation

25	3/4	3/8	8	EA	54675	61220250 -25FT 3/4S 3/8L 1/2I B COPPER LINE SET	—	—
25	7/8	3/8	8	EA	54677	61420250 -25FT 7/8S 3/8L 1/2I B COPPER LINE SET	—	—
50	3/4	3/8	5	EA	54676	61220500 -50FT 3/4S 3/8L 1/2I B COPPER LINE SET	—	—
50	7/8	3/8	5	EA	54678	61420500 -50FT 7/8S 3/8L 1/2I B COPPER LINE SET	—	—
50	1-1/8	3/8	4	EA	54679	61820500 -50FT 11/8S 3/8L 1/2I B COPPER LINE SET	—	—

### 3/4" Insulation Line Sets

25	3/4	3/8	8	EA	54706	61230250 -25FT 3/4S 3/8L 3/4I COPPER LINE SET	—	—
50	3/4	3/8	4	EA	54707	61230500 -50FT 3/4S 3/8L 3/4I COPPER LINE SET	—	—
25	7/8	3/8	7	EA	54708	61430250 -25FT 7/8S 3/8L 3/4I COPPER LINE SET	—	—
50	7/8	3/8	4	EA	54709	61430500 -50FT 7/8S 3/8L 3/4I COPPER LINE SET	—	—



## Mini Split Line Sets 3/8" Insulation

- Both lines insulated
- Flare nuts on both ends

Length (Ft.)	Suction Line	Liquid Line	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
15	3/8	1/4	14	EA	54683	40680150B3B6 15FT 3/8S 1/4L 3/8I MINI SPLIT LINE SET	—
15	1/2	1/4	14	EA	54684	40880150B3B6 15FT 1/2S 1/4L 3/8I MINI SPLIT LINE SET	—
15	5/8	3/8	14	EA	54685	61080150B3B6 15FT 5/8S 3/8L 3/8I MINI SPLIT LINE SET	—
15	3/4	1/2	14	EA	54687	81280150B3B6 15FT 3/4S 1/2L 3/8I MINI SPLIT LINE SET	—
30	3/8	1/4	14	EA	54688	40680300B3B6 30FT 3/8S 1/4L 3/8I MINI SPLIT LINE SET	—
30	1/2	1/4	14	EA	54689	40880300B3B6 30FT 1/2S 1/4L 3/8I MINI SPLIT LINE SET	—
30	5/8	1/4	12	EA	54691	41080300B3B6 30FT 5/8S 1/4L 3/8I MINI SPLIT LINE SET	—
50	3/8	1/4	8	EA	54693	40680500B3B6 50FT 3/8S 1/4L 3/8I MINI SPLIT LINE SET	—
50	1/2	1/4	7	EA	54694	40880500B3B6 50FT 1/2S 1/4L 3/8I MINI SPLIT LINE SET	—
50	5/8	1/4	8	EA	54696	41080500B3B6 50FT 5/8S 1/4L 3/8I MINI SPLIT LINE SET	—
50	3/4	1/2	7	EA	54697	81280500B3B6 50FT 3/4S 1/2L 3/8I MINI SPLIT LINE SET	—



## Twin Tube Mini Split Line Sets 1/2" Insulation

Mini Split Line Sets with dual tube insulation are the convenient solution for labor savings and reduced waste. These time-saving kits are packaged with pre-insulated copper tube liquid lines and suction lines. The factory installed seamless insulation reduces the risk of leaks and promotes energy efficiency.



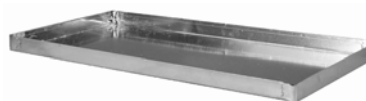
- Single piece insulation eliminates the need for taping the lines together
- Closed-cell construction ensures excellent thermal conductivity, and prevents mold and mildew
- 25/50 rating
- UL recognized at 700 PSI

Length (Ft.)	Suction Line	Liquid Line	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
15	3/8	1/4	14	EA	54617	40620150B3B8 15FT 3/8S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
15	1/2	1/4	14	EA	54618	40820150B3B8 15FT 1/2S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
15	5/8	1/4	12	EA	54614	41020150B3B8 15FT 5/8S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
15	5/8	3/8	12	EA	54619	61020150B3B8 15FT 5/8S 3/8L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
30	3/8	1/4	12	EA	54620	40620300B3B8 30FT 3/8S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
30	1/2	1/4	12	EA	54621	40820300B3B8 30FT 1/2S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
30	5/8	1/4	8	EA	54615	41020300B3B8 30FT 5/8S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
30	5/8	3/8	7	EA	54622	61020300B3B8 30FT 5/8S 3/8L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
50	3/8	1/4	8	EA	54623	40620500B3B8 50FT 3/8S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
50	1/2	1/4	7	EA	54624	40820500B3B8 50FT 1/2S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
50	5/8	1/4	7	EA	54616	41020500B3B8 50FT 5/8S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
50	5/8	3/8	7	EA	54625	61020500B3B8 50FT 5/8S 3/8L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
100	1/2	1/4	1	EA	54626	40821000B3B8 100FT 1/2S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
100	5/8	3/8	1	EA	54627	61021000B3B8 100FT 5/8S 3/8L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—





## Drain Pans



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	16580	1400 16 X 31 28GA GALVANIZED PAN	—	—
6	EA	16581	1400 19 X 31 28GA GALVANIZED PAN	—	—
22	EA	16582	1400 24 X 31 28GA GALVANIZED PAN	—	—
20	EA	16583	1400 26 X 31 28GA GALVANIZED PAN	—	—
6	EA	16584	1400 30 X 60 28GA GALVANIZED PAN	—	—



## Drain Pans and Accessories



Plastic Drain Pan

High Rise Drain Pan

6-JMP

CC-1

SOS-1

WS-1

### Drain Pans

Pans include attached 3/4" PVC fittings, rolled edges, ribbed bottom, and reinforced corners for strength and durability.

- L models have drain line outlets in the long side.
- S models have drain line outlets in the short side.

### High Rise Drain Pans

The High Rise Pan is an innovative new plastic drain pan design that allows placement of an air handler 2-3/4" above the outside lip of the pan without the need for separate, cumbersome mounting blocks. The pan has a molded-in network of risers to give a 5" lift.

### 6-JMP A/C Condensate Float Switch

Designed for use in condensate drain pan overflow. Easily installed on the side of the auxilliary drain pan. SPDT normally Open or normally Closed.

### Drain Pans

Bottom Dimension (In.)	Overall Dimension (In.)	Depth (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
30 x 60	32 x 62	2	5	EA	68920	6-3060L 30X60IN PLASTIC DRAIN PAN	—
30 x 50	32 x 52	2	5	EA	68921	6-3050L 30X50IN PLASTIC DRAIN PAN	—
30 x 30	32 x 32	2	5	EA	68922	6-3030L 30X30IN PLASTIC DRAIN PAN	—
27 x 48	29 x 50	2	5	EA	68923	6-2748L 27X48IN PLASTIC DRAIN PAN	—
30 x 50	32 x 52	2	5	EA	68924	6-3050S 30X50IN PLASTIC DRAIN PAN	—
30 x 50	32 x 52	5	5	EA	88862	6-HK3050 30X50 HIGH RISE DRAIN PAN	—
30 x 60	32 x 62	5	5	EA	88863	6-HK3060 30X60 HIGH RISE DRAIN PAN	—

### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	68925	6-JMP COND FLOAT SWITCH	—
12	EA	88860	CC-1 CONDENSATE COP	—
1	EA	88861	SOS-1 SAFETY OVERFLOW SWITCH	—
1	EA	68926	WS-1 WET SWITCH FLOOD DETECTOR	—

### CC-1 Condensate Cop

The universal CC-1 can be placed anywhere on the pan. It can also be used on other secondary drain pans.

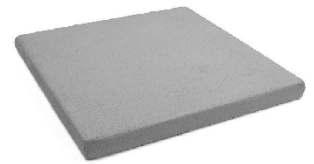
### SOS-1 Safety Overflow Switch

Designed for use on 3/4" PVC condensate drain line. The SOS snaps easily over existing drain line tubing and can be glued in place using PVC cement. It can detect a possible overflow condition when the PVC drain line becomes full with water.

### WS-1 Wet Switch Flood Detector

As few as one or two drops will cause a Wet Switch to turn off a unit, thereby alerting a service technician to a moisture problem. Connects to 24 Vac. More than one unit may be connected to a system.

## DIVERSITECH Ultralite Equipment Pads



- Textured surface prevents unit slide.
- High-fiber cement composite is amazingly tough
- Engineered EPS core provides vibration dampening and solid bearing.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
20	EA	26900	UC1636-2 16X36X2 ULTRALITE PAD	—	—
20	EA	26904	UC2424-2 24X24X2 ULTRALITE PAD	—	—
20	EA	26905	UC2430-2 24X30X2 ULTRALITE PAD	—	—
20	EA	26912	UC3030-2 30X30X2 ULTRALITE PAD	—	—
20	EA	26913	UC3036-2 30X36X2 ULTRALITE PAD	—	—
20	EA	26915	UC3232-2 32X32X2 ULTRALITE PAD	—	—
20	EA	26919	UC3636-2 36X36X2 ULTRALITE PAD	—	—
20	EA	26920	UC3640-2 36X40X2 ULTRALITE PAD	—	—
15	EA	26925	UC3648-3 36X48X3 ULTRALITE PAD	—	—

## DIVERSITECH Anti-Vibration Mounting Pads



### The EVA pad

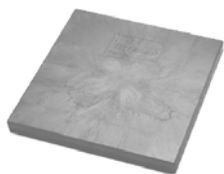
The most effective vibration dampening pad available on the market today. This enhanced performance is due to the special composite foam center. The composite foam is much more structurally sound than cork. It is not affected by oils or chemicals that can sometimes break down cork, and is much more effective at vibration dampening than solid rubber.

### Cork-Rubber Pad

Highest quality elastomeric oil resistant padding. Designed to withstand 50 lbs. per square inch. The rubber pads are corrugated on both sides. The cork is laminated between two corrugated pads. Ideal for air conditioners, compressors, cooling towers, presses, machines, etc.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
48	EA	43908	MP-2E 2X2X7/8 EVA PAD	—
36	EA	43909	MP-3C 3X3X7/8 CORK-RUBBER PAD	—

## DIVERSITECH E-Lite™ Plastic Equipment Pads



E-Lite's rugged design provides uniform and generous ribbing for optimum, self-leveling ground support without inserts. The result is a pad that is lightweight, but not too light. A subtle texture prevents unit slide. Limited lifetime warranty.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
44	EA	27000	EL2424-2 24X24X2 ELITE PLASTIC PAD	—	—
22	EA	27001	EL2430-2 24X30X2 ELITE PLASTIC PAD	—	—
22	EA	27004	EL3030-2 30X30X2 ELITE PLASTIC PAD	—	—
22	EA	27005	EL3036-2 30X36X2 ELITE PLASTIC PAD	—	—
22	EA	27010	EL3636-2 36X36X2 ELITE PLASTIC PAD	—	—
22	EA	27011	EL3640-2 36X40X2 ELITE PLASTIC PAD	—	—
16	EA	27015	EL5252-3 52X52X3 ELITE PLASTIC PAD	—	—



## Mounting Blocks



### 230-MB17W for Condensing Units

Used as mounting bases when condensing units must be bolted down. Furnished complete with mounting bolts. Maximum load capacity is 900 pounds per mounting block.



### FB-1 for Furnaces

Simply peel and stick the Furnace Mounting Block to the base of the furnace. Slide the furnace into position without worrying about them coming off. The Furnace Mounting Blocks assist in eliminating vibration and noise, and add to a professional looking installation. Each block holds up to 300 lbs. and holds the furnace off the floor, thus avoiding moisture and rust.



### HP3636-8 Heat Pump Pad

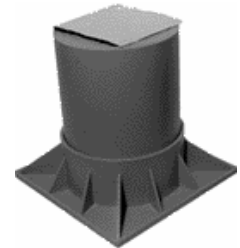
The Heat Pump Pad raises the pump a full 8" off the ground on a stable, star-shaped riser platform for maximum operating efficiency in snowy climates. The pad is made from eco-friendly, recycled polypropylene and includes 8 high quality anti-vibration pads that are engineered to fit perfectly into special slots on the risers for quiet, vibration-free operation.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	55055	230-MB17W 17IN MOUNT BLOCK 2PK	—
72	EA	44800	FB-1 FURNACE MOUNTING BLOCK	—
16	EA	26895	HP3636-8 36X36X8 HEAT PUMP PAD	—



## Pump-Up™ Stands

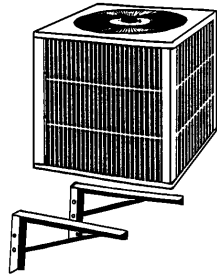
- Elevate heat pumps and air handling units.
- Made of corrosion-resistant plastic.
- Butyl mastic on the top and bottom.
- Absorbs noise and vibration.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	22816	MA-HP3 3IN PUMP UP	—
4	EA	22819	MA-HP6/2006/HPR6 6IN PUMP-UP	—



## Air Conditioner Mounting Bracket



The ZIPP'R air conditioner mounting bracket is made of durable, coated angle iron. Anchor bolt the bracket to the foundation above the grade line. Great for heat pumps which need to be up off the ground.

- No second trip to set the air conditioner
- No waiting for grading
- No callbacks after the ground settles

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
1	PR	16550	1043 9IN X 39IN AIR CONDITIONING BRACKET	—	—
1	PR	16552	1043 10INX42IN A/C BRACKET	—	—
1	PR	16553	1043 12INX42IN AIR CONDITIONING BRACKET	—	—

## Air Conditioner Concrete Anchor

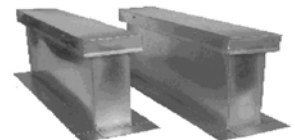
Used for AC wall brackets.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
50	BOX	96220	2638334 3/8" X 3 3/4" CONCRETE ANCHORS	—



## Rooftop Equipment Mounting Rails



- 18 gauge galvanized steel construction.
- Unitized construction with integral base plate.
- Welded construction.
- 2 x 4 wood nailer.
- Galvanized counter flashing with lag screws.
- Internally re-inforced.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PR	57430	ER-3A 8"X3' RAIL (PAIR)	—



## Disconnect Switches

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	77016	83317/O6000 60 AMP FUSED DISCONNECT SWITCH	—	—
4	EA	77020	83321 60 AMP 3PH NON-FUSED DISCONNECT SWITCH	—	—
6	EA	77024	83396/N3000 30AMP FUSED DISCONNECT SWITCH	—	—
6	EA	77025	83335/ N6000NF 60AMP NON-FUSED DISCONNECT SWITCH	—	—



## Disconnect with GFCI Receptacle Combination



This combination disconnect provides a convenient low cost means to satisfy NEC Article 210.63 requirements for HVAC/R Equipment Out and Article 406.8(B)(1) for Receptacle-Wet Locations. The NEMA 3R design insures a safe, weather tight installation for residential, light commercial and even some industrial applications.

- 60 amp, non-fused
- Pullout type
- 240 volt AC, single-phase
- 15 amp, 125V GFCI duplex receptacle included
- UL & CUL listed
- Compact size: 5" x 7" x 4"
- Removable cover
- Heavy galvanized G90 steel with highest quality electro-disposition finish resists corrosion and fading

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	77017	83308 60AMP AC NON-FUSED DISCONNECT WITH GFCI RECEPTACLE COMBO	—



## Air Conditioning Whips All Plastic



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
1	EA	76847	84131 1/2X48-10 A/C WHIP	—	—
1	EA	20179	84135 1/2X72 A/C WHIP	—	—
1	EA	76848	84133 3/4X48-8 A/C WHIP	—	—
1	EA	20181	84137 3/4X72 A/C WHIP	—	—



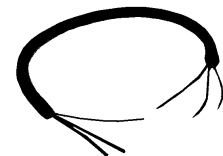
## Air Conditioning Whips Metal Fittings/Plastic Conduit



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
1	EA	76920	84132 1/2X48-10 A/C WHIP	—	—
1	EA	76922	84136 1/2X72-10 A/C WHIP	—	—
1	EA	76921	84134 3/4X48-8 A/C WHIP	—	—
1	EA	76923	84138 3/4X72-8 A/C WHIP	—	—



## Air Conditioning Whips All Metal



Components are UL Approved for Outdoor Application

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
1	EA	76840	84125/W124MMET- UA 1/2X48 A/C WHIP	—	—
1	EA	76841	84127/W126MMET- UA 1/2X72 A/C WHIP	—	—
1	EA	76842	84126/W344MMET- UA 3/4X48 A/C WHIP	—	—
1	EA	76843	84128/W346MMET- AU 3/4X72 A/C WHIP	—	—

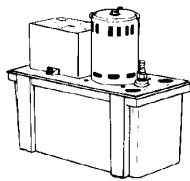
## RECTORSEAL Safe-T-Switch

- Smaller, L-shaped switch installs on auxiliary pan outlets and requires no plug.
- Installs easily in tight spaces and catches clogs in primary pan outlet nipples.
- Connects to either red or yellow wire.
- UL listed.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
24	EA	63312	SS2 97637 SAFE-T-SWITCH	—
24	EA	89848	SS1 97632 INLINE SAFE-T-SWITCH	—

## Little GIANT Pump Company Condensate Pumps



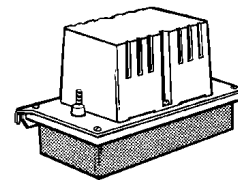
VCL-24-ULS



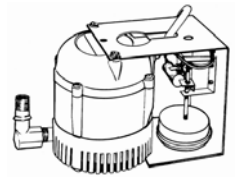
VCMX-20-ULS



VCMA



VCC-20-ULS



1-ABS

**VCL Large Reservoir Pumps.** 1 gallon tank, 1/8 HP motor, galvanized steel tank cover.

**VCMX Medium Reservoir, "Next Generation" Pumps.** 1/2 gallon tank, 1/30 HP motor, ABS cover, slimmer footprint, oil resistant tank, and check valve, patent pending cooling system.

**VCMA Medium Reservoir Pumps.** 1/2 gallon tank; 1/30 HP motor; ABS tank, housing, and cover.

**VCC Low Profile Pumps.** 1/3 gallon tank, 1/30 HP motor, ABS housing and cover.

**1-ABS Shallow Pan Pumps.** 1/4" discharge, 1/150 HP motor, epoxy coated cast aluminum housing and cover, designed for in-pan placement.

Model No.	PSI	Gallons Per Hour (In.)					Shut-Off
		1	3	5	9	15	
VCL-24-ULS	10.4	270	260	250	210	—	24
VCMX-20-ULS	9.1	84	—	75	—	42	21
VCMA-20-ULS	8.6	80	—	70	55	25	20
VCMA-15-ULS(T)	6.5	65	—	50	30	—	15
VCC-20-ULS	8.6	80	—	70	50	25	20
1-ABS	4.3	205	180	145	—	—	10

### Condensate Pumps

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	EA	95521	VCL-24-ULS COND PUMP 115V	—
5	EA	95509	VCMX-20ULS COND PUMP 115V	—
5	EA	95513	VCMA-20ULS COND PUMP 230V	—
4	EA	95511	VCMA-15ULST COND PUMP 115V	—
5	EA	95526	VCMA-15ULS COND PUMP 115V	—
5	EA	95518	VCC-20-ULS COND PUMP 115V	—
6	EA	95514	1-ABS COND PUMP ONLY 115V	—

### Accessories

24	EA	95510	ACS-3 SAFETY SWITCH	—
6	EA	95563	CV-2 CHECK VALVE F/1-ABS	—



## Condensate Pumps



Model No.	Voltage	Shut-Off Feet	Tank Capacity	Gallons Per Hour				
				1 Ft.	5 Ft.	10 Ft.	15 Ft.	20 Ft.
CB251ULHT	115	20	1 Gal.	108	100	84	65	40

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	95575	CB251ULHT 115V PUMP	—



## Condensate Pumps



CP-16

### CP-16

- The CP-16 is designed to lift to a maximum of 16 feet.
- Features include hang tabs, four inlet holes, float switch, overflow switch, and a check valve.



IQP-120

### IQP-120

- The ClearVue™ pump features iQ Technology™ which allows the pump to change speed and lift based on condensate flow.
- Floatless Sensor™ technology means more reliable operation and no problems from stuck or fouled mechanical floats.
- ClearVue™ features a unique self-cleaning mode to maintain itself and help keep drain lines clear.
- ClearVue™ also offers a clear tank that allows the user to see what is inside.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	98904	CP-16 120V COND PUMP W/16FT LIFT	—
6	EA	98905	IQP-120 120V CLEARVUE COND PUMP W/22FT LIFT	—



## Fittings for Drain Hose



701-012



701-018



701-019



701-020



701-034

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PKG	41578	701-012 3/8 BARB X 1/2 MPT ADAPTER 2/PKG	—
1	PKG	41583	701-018 1/2IN BARB ELBOW 2/PKG	—
1	PKG	41581	701-019 1/2 BARB X 3/4 FPT ELBOW 2/PKG	—
1	PKG	41580	701-020 1/2 BARB X 3/4 MPT ELBOW 2/PKG	—
1	PKG	41582	701-034 1/2IN BARB TEE 2/PKG	—

**MA-LINE** Tubing  
MORTI AND ASSOCIATES, INC.



**Aluminum Tubing**

- ASTM B491
- 1435 Alloy
- .035 Wall Thickness
- Temperature Range: -250° to 250° F



**Neoprene Air Tubing**

For use on furnaces, boilers, venter motors, air duct pressure switches and rooftop pressure differential switches.

**Temperature Rating:** -200 to 212° F

**Length:** 60 inches long (5' roll)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	CL	54041	MA-AT14 1/4 OD 032 50FT ALUM TUBE	—	—
10	CL	54042	MA-AT38 3/8 OD 035 50FT ALUM TUBE	—	—
10	CL	54043	MA-AT12 1/2 OD 035 50FT ALUM TUBE	—	—
1	RLL	54078	MA-SNAT316-5 3/16 IN ID SQUARE BLACK NEOPRENE TUBING	—	—

**MA-LINE** Heavy Duty PVC Braided Hose  
MORTI AND ASSOCIATES, INC.

**HDT12**

- 1/2" ID x 50' roll
- 150 PSI working pressure
- 450 PSI burst pressure

**HDT38**

- 3/8" ID x 50' roll
- 200 PSI working pressure
- 600 PSI burst pressure



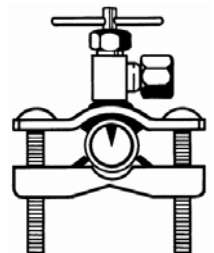
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
1	RLL	54031	MA-HDT12 1/2IN X 50FT HEAVY DUTY PVC BRAIDED DRAIN TUBING	—	—
1	RLL	54033	MA-HDT38 3/8ID X 50FT HEAVY DUTY PVC BRAIDED DRAIN TUBING	—	—

**MARS** Vinyl Drain Hose



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4 CTNS	PC-2 5 CTNS
100	FT	41612	79135 (100FT) 3/4 ID VINYL HOSE	—	—
100	FT	41613	79132 (100FT) 5137 3/8 ID VINYL HOSE	—	—
100	FT	41614	79133 (100FT) 5150 1/2 ID VINYL HOSE	—	—
100	FT	41615	79134 (100FT) 5162 5/8 ID VINYL HOSE	—	—

**Supco** Saddle Valve  
Fits Copper Tubing from 3/8"



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	45730	STV-2 SADDLE TAP VALVE	—





## Angle Valve



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	53058	T-595 5/8IN OD X 1/4IN OD ANGLE VALVE	—	—



## Duct Liner



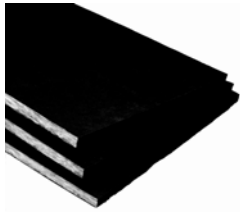
LinaTex

### LinaTex™ Liner

A flexible duct liner made from continuous glass fibers bonded with a thermosetting resin. The airstream surface is protected with a black, high density glass mat which has a tough surface and is damage resistant.

Factory applied edge coating assures coverage of the leading edges per NAIMA/SMACNA requirements.

LinaTex liner improves indoor building environment, withstands high velocity, absorbs disturbing sound, conserves energy, and resists microbial growth.



Linacoustic

### Linacoustic Liner

A flexible duct liner insulation made from strong, glass fibers bonded with a thermosetting resin. The airstream surface is protected with Johns Manville exclusive Reinforced Coating System, that combines a Permacote® acrylic coating with a flexible glass cloth reinforcement. Factory applied edge coating assures coverage of the leading edges per NAIMA/SMACNA requirements.

Linacoustic liner improves indoor building environment, is resistant to dust and dirt, resists microbial growth, and is GREENGUARD® certified.

### LinaTex Liner

Install R Value	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2-4	PC-3 5
2.4	6	EA	40742	1/2X35-1/2X100 LINATEX DUCT LINER	—	—	—
2.4	6	EA	40743	1/2X47X100 LINATEX DUCT LINER	—	—	—
2.4	4	EA	40744	1/2X59X100 LINATEX DUCT LINER	—	—	—
3.7	6	EA	40739	1X47X100 LINATEX DUCT LINER	—	—	—
3.7	4	EA	40740	1X56-1/4X100 LINATEX	—	—	—
3.7	4	EA	40741	1X59X100 LINATEX DUCT LINER	—	—	—

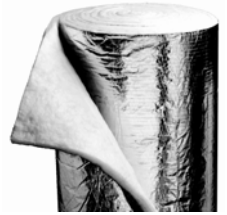
### Linacoustic Liner

2.2	6	EA	40749	1/2X47X100 LINACOUSTIC RC LINER	—	—	—
2.2	4	EA	40752	1/2X56-1/4X100 LINACOUSTIC LINER	—	—	—
2.2	4	EA	40748	1/2X59X100 LINACOUSTIC RC LINER	—	—	—
4.2	6	EA	40745	1X47X100 LINACOUSTIC RC LINER	—	—	—
4.2	4	EA	40746	1X56-1/4X100 LINACOUSTIC LINER	—	—	—
4.2	4	EA	40747	1X59X100 LINACOUSTIC RC LINER	—	—	—
4.2	1	EA	40755	1X60X100 LINACOUSTIC RC LINER	—	—	—
6.3	2	EA	40762	1 1/2X47X50 LINACOUSTIC RC LINER	—	—	—
6.3	2	EA	40763	1 1/2X59X50 LINACOUSTIC RC LINER	—	—	—
8.0	2	EA	40764	2X47X50 LINACOUSTIC RC LINER	—	—	—
8.0	2	EA	40765	2X59X50 LINACOUSTIC RC LINER	—	—	—



## Duct Wrap

Microlite XG duct wrap insulation is a light weight, highly resilient, blanket-type thermal and acoustical insulation made of glass fibers bonded with a white, formaldehyde-free resin.



Out of Pkg. R Value	Install R Value	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2-4	PC-3 5
5.2	4.2	4	EA	40753	1-1/2X48X100 MICROLITE XG WRAP	—	—	—
6.9	5.6	4	EA	40754	2X48X75 MICROLITE XG WRAP	—	—	—
8.0	6.5	4	EA	40751	2 1/3X48X75 MICROLITE XG WRAP	—	—	—
10.3	8.3	4	EA	40756	3X48X50 MICROLITE XG WRAP	—	—	—



## Foil Duct Insulation

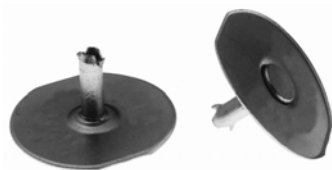
- Thermal performance unaffected by moisture
- Non-toxic and non-carcinogenic
- Approved vapor barrier protection
- Inhibits condensation, mold and fungi growth
- Reflects 94% of radiant heat



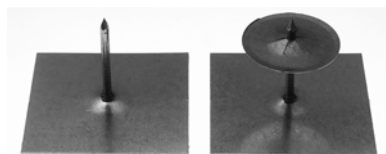
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2-4
3	RLL	41890	2290-16-032 16IN X 32FT FOIL DUCT INSULATION	—	—
3	RLL	41891	2290-17-032 17IN X 32FT FOIL DUCT INSULATION	—	—
2	RLL	41892	2290-24-032 24IN X 32FT FOIL DUCT INSULATION	—	—
2	RLL	41893	2290-34-032 34IN X 32FT FOIL DUCT INSULATION	—	—
1	RLL	41894	2290-48-050 48IN X 50FT FOIL DUCT INSULATION	—	—



## Insulation Fasteners



Grip-Ons



Stik-Ons



Weld-Ons

### Grip-Ons

Grip-On pins are made with nail tips that have a double claw that grabs more metal. The hardened tip penetrates sheet metal, yet is soft enough to bend at the right moment of impact with an underlying harder surface. The points will not shatter.

### Stik-Ons

Stik-Ons are 14-gauge steel insulation pins that are permanently staked through 2" x 2" galvanized steel base plates. A pressure-sensitive adhesive backing provides a permanent bond between the Stik-Ons and ductwork. Clips included. Use to hold all low- and medium-density insulation and insulation board where the temperature will not exceed 180° F (82° C).

### Weld-Ons

Weld-ons are manufactured from a special carbon alloy steel, the point of the welding pin is hardened in a unique cold form process. This hardens the points, giving them a steel temper, which, unlike other welding pins, will not blunt or flatten when applied. The sharper point of contact results in a better weld and creates fewer sparks that ignite adhesives or burn substrates. Weld-ons are easily applied using any conventional portable or automatic resistance welding unit.

### Grip-Ons Insulation Hammer and Fasteners

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	BOX	48085	308239 1/2" GRIP-ONS 1,000 (GOT-50)	—
1	CTN	42052	308233 GRIP-ONS 1/2" 5000 (GOB-50)	—
1	BOX	42086	308235 1" GRIP-ONS LD 1,000 (GOT-100LD)	—
1	CTN	42082	308229 1" GRIP-ONS LD 5,000 (GOB-100LD)	—
1	EA	42084	307540 GRIP-ONS MAGNETIC HAMMER	—
1	EA	42085	309845 KWIKI LOCKING EXTENSION	—

### Stik-Ons Insulation Fasteners

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-3	PC-2 4
1	BOX	42055	308162 STIK-ONS 1 1/4" 100	—	—
1	BOX	42056	308164 STIK-ONS 2" 100	—	—

### Weld-Ons Insulation Fasteners with Cup Style Washer

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	BOX	42076	308111 1/2" WELD-ONS CUP 1,000 (DWT-50)	—	—
1	BOX	42077	308119 1/2" WELD-ONS CUP 5,000 (DWB-50)	—	—

### Weld-Ons Insulation Fasteners with Flat Style Washer

1	BOX	42074	308141 1/2" WELD-ONS FLAT 5,000 (FWB-50)	—	—
1	BOX	42075	308142 3/4" WELD-ONS FLAT 5,000 (FWB-75)	—	—
1	BOX	42073	308136 1" WELD-ONS FLAT 1,000 (FWT-100)	—	—
1	BOX	42078	308143 1" WELD-ONS FLAT 5,000 (FWB-100)	—	—



## Spot-Ons Insulation Fasteners

### Pins and Clips



Spot-Ons and clips are a convenient and proven method for fastening insulation blanket or board to sheet metal. Spot-Ons are ring-shanked pins, made of 14-gauge low carbon steel, annealed and zinc-plated. Apply using any portable or stationary resistance welding unit with hollow magnetic tip.

Available in four lengths, Spot-Ons can accommodate up to 1/2"–2-1/2" thick insulation.

Clips, sold separately, are easy to install over the pin tip. They will hold any board or blanket insulation in place.

### Spot-Ons Insulation Fastener Clips

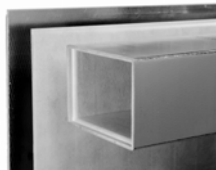
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	BOX	42079	308325 SPOT-ONS CLIPS 1,000 (DCT-100)	—	—
1	BOX	42069	308327 SPOT-ON CLIPS 5,000 (DCB-100)	—	—

### Spot-Ons Insulation Fastener Pins

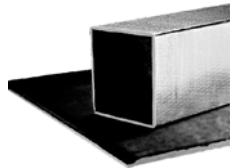
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	BOX	42070	308103 3/4" SPOT-ONS PINS 1,000 (DST-75)	—	—
1	BOX	42080	308105 1 1/4" SPOT-ONS PINS 1,000 (DST-125)	—	—
1	BOX	42071	308107 2" SPOT-ONS PINS 1,000 (DST-200)	—	—
1	BOX	42072	308109 2 1/2" SPOT-ONS PINS 1,000 (DST-250)	—	—



## Duct Board



MicroAire



SuperDuct

### Micro-Aire®

Mat-Faced Micro-Aire duct board is produced from durable glass fibers bonded with a thermosetting resin. The airstream side features a fiber glass mat for use at velocities up to 5,000 fpm (25.4 m/sec). The opposite side features a fire-resistant Foil-Scrim-Kraft facing extending the full width of the male edge to serve as an integral closure flap for section joints.

- Double airstream surface
- Quiet operation
- Will not support microbial growth

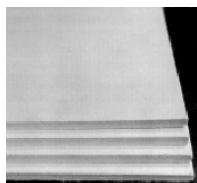
### SuperDuct®

SuperDuct RC Air Duct Board is made from strong, resilient glass fibers bonded with a thermosetting resin. Male/female joints are factory made on the transverse edges of each board. A tough FSK (foil-scrim-kraft) facing is laminated to the exterior surface of the board. Resistant to dust and dirt

- Will not support microbial growth
- Quiet operation
- Better temperature control
- Extended performance parameters
- SMACNA leakage class 6

R Value	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 1-4 CTNS	PC-3 5 CTNS
4.3	8	SHT	40733	1X48X96 MICRO-AIRE DUCTBOARD	—	—	—
4.3	6	SHT	40734	1X48X120 MICRO-AIRE DUCT BOARD	—	—	—
4.3	1	PLT	40735	1X48X120 PALLET MICRO-AIRE BRD (44 SHT)	—	—	—
4.3	6	SHT	40736	1X48X120 SUPERDUCT RC	—	—	—
6.5	4	SHT	40766	1 1/2X48X120 MICRO-AIRE DUCTBOARD	—	—	—
6.5	4	SHT	40768	1 1/2X48X120 SUPERDUCT RC	—	—	—
8.7	2	EA	40763	1 1/2X59X50 LINACOUSTIC RC LINER	—	—	—
8.7	3	SHT	40767	2X48X120 MICRO-AIRE DUCTBOARD	—	—	—

## Millboard



For fire-stop or shield around heating equipment, wall board, gaskets, washers, electrical devices, ovens, and fire doors.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	42118	19154 1/4"X39.4"X39.4" 6MM MINERAL FIBER MILLBOARD	—



## Fab Guard Flexible Duct Connector



- Fab Guard is designed to protect the fabric during fabrication operations
- Available in extra wide 4" fabric to allow more flexibility in all installations
- Packaged in the open position to facilitate scribing as the roll gets pulled out of its packaging
- Available exclusively in 28-gauge in black vinyl fabric

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6
1	EA	42041	307865 2-4-2 28G 100' CONN RSDL FAB FLT BLK	—	—



## Hypalon Flexible Duct Connectors



Hypalon is the preferred material for outdoor applications such as connections to rooftop units where they may be in direct strong sunlight. It is unaffected by ozone and can be used near electrostatic air cleaners with complete confidence. It is more abrasion-resistant than Neoprene and has a slightly wider operating temperature range. Hypalon resists a wide range of chemicals.

- Waterproof and airtight
- Off-white in color
- Highly resistant to ozone and sunlight
- Can be used indoors and outdoors
- Wider operating temperature range
- Superior aging characteristics

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6
1	EA	42044	307831 3-3-3 24G 100' CONN CML HYP CLS WHT	—	—
1	EA	42045	307905 3-6-3 24G 100' CONN SUPER HYP CLS WHT	—	—



## Vinyl-Flex Flexible Duct Connectors



Vinyl-Flex is a polyvinyl chloride-coated polyester woven fabric with tremendous tear resistance. It can be used on both supply and return air ducts in most HVAC applications where an economical flexible connection is required and can be used in damp locations because it can resist bacterial attack.

- Low cost
- Leak proof
- Wide temperature range
- Good abrasion resistance
- Resistant to moisture and mildew
- Used in heating and cooling applications

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6
1	EA	42042	307851 3-3-3 24G 100' CONN CML VNLFLX CLS BLK	—	—
1	EA	42043	307899 2-3-2 28G 100' CONN RSDL VNLFLX CLS BLK	—	—
1	EA	42046	307881 3-3-3 28G 100' CONN LT-CML VNLFLX CLS BLK	—	—



## Para-Link Parallel Blade Damper Bracket Assembly



**Set Includes:**

- (1) Para-Link bracket medium 1/4"
- (2) Strap and set screw square head
- (2) Flanged bearing bronze 1/2" oil impregnated
- (2) Bearing pin 1/2" x 2-1/2"

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
100	EA	42049	307927 PARA-LINK SET PARALLEL BLADE	—



## Dyn-O-Rail Vane Rail



- Sturdy 23-gauge steel embossed for stiffness design
- Use with single or hollow vanes—up to 16-gauge steel
- Relief holes in slots support vanes during assembly
- Beveled edges remain straight for better contact

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	42047	308089 2 1/4X100' DYN-O-RAIL JR RDSL	—
1	EA	42048	308088 4 X 100' DYN-O-RAIL CML	—



## Dial-A-Matic Commercial Damper Regulators



- Heavy-gauge dial and handle
- 1/4" and 3/8" dial for round or rectangular duct application
- 1/4" dial regulator sets for use with dampers up to 10" x 10"
- 3/8" dial regulator sets for use with dampers up to 20" x 20"

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	BOX	42064	308004 1/4" LONG DIAL-A-MATIC SET	—	—
5	EA	42062	308005 3/8" DIAL-A-MATIC SET	—	—
100	EA	42063	308006 3/8" LONG DIAL-A-MATIC SET	—	—

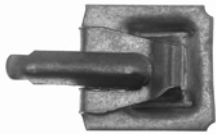
## **Dyn-A-Quad Commercial Damper Regulators**



- 1/2" clampmatic for use with dampers up to 30" x 30"
- Slotted 12-gauge steel handle with offset
- Bolt/nut squeezes bearing pin firmly
- Backup Neoprene gasket included
- Firmly clamps round and square bearings

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
50	EA	42054	308043 1/2" DYN-A-QUAD CLAMPMATIC ROUND	—

## **Kwiki Residential Damper Regulators**



The Kwiki line of bright, zinc-plated residential regulators are designed to allow easy installation onto any factory-made residential-quality blade. The spring in the spring-loaded bearing will never bind or interfere with the blade. The KB-1 (spring-loaded bearing) will perforate the metal with ease every time. A special handle can also be used on both ends simply by flipping it from one end to the other. For use with dampers up to 10" x 10".

### **307961 Includes:**

Kwiki regulator (KH-1)  
Kwiki retracting bearing 100 (KB-1)

### **307963 Includes:**

Kwiki retracting bearing 100 (KB-1)  
Kwiki handle 100  
Kwiki wingnut 100  
Kwiki washer steel 100  
Kwiki gasket retracting bearing 100

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	PKG	42060	307963 KWIKI RGLTR (KH-1) 10/PKG	—	—
10	PKG	42061	307961 KWIKI SET (KHS-1) 10/PKG	—	—
100	EA	42065	307974 KWIKI WSHR STEEL (3012-100)	—	—
100	EA	42066	307968 KWIKI HANDLE (3011-100)	—	—
100	EA	42067	307970 KWIKI WINGNUT (3013-100)	—	—
100	EA	42068	307964 KWIKI RETRACTING BRNG	—	—

## **Steel Metal Screws**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	CTN	42057	308191 #8 X 1/2" TECHS HEX HEAD 1000-PK	—



## Zip-In® Self-Drilling, Tapping Screws



Oval Head Zip-in Screws



Zip-in Register Screws

A unique thread design and quality controlled manufacturing process spell the Zip-In difference. Zip-In's sophisticated heat treat process allows the screw to taper to a fine, sharp point without sacrificing critical point strength. A single starting thread is machined down to the very tip of the point and is the source of Zip-In's penetrating power. A second thread above the point engages after initial penetration and moves the screw in double fast. Zip-In screws are faster driving, with a greater capacity for fastening heavier gauges of sheet metal than any other self-drilling type.

### 100 Packs

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	BOX	42827	HW6X3/8Z 100-PAK DRILL SCREW	—	—
1	BOX	42828	HW7X1/2ZX 100-PAK DRILL SCREW	—	—
1	BOX	42829	HW8X1/2ZX 100-PAK DRILL SCREW	—	—
1	BOX	42836	HW8X1ZX 100-PAK ZIP-IN SCREWS	—	—
1	BOX	42830	HW10X1/2ZX 100-PAK DRILL SCREW	—	—
1	BOX	42831	HW10X3/4ZX 100-PAK DRILL SCREW	—	—

### 250 Packs

1	BOX	42840	HW8X1 1/2ZWT 250-PAK WHITE DRILL SCREW	—	—
1	BOX	42841	HW8X2ZWT 250-PAK WHITE DRILL SCREW	—	—
1	BOX	42845	PO8X2ZWT 250-PAK WHITE SCREW	—	—

### 500 Pack

1	BOX	42837	HW8X1ZT 500-PAK ZIP-IN SCREWS	—	—
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### 1,000 Packs

1	BOX	42858	HW6X3/8ZT M PAK DRILL SCREW	—	—
1	BOX	42859	HW7X1/2ZT M PAK DRILL SCREW	—	—
1	BOX	42860	HW8X1/2ZT M PAK DRILL SCREW	—	—
1	BOX	42867	HW8X3/4ZT M PAK DRILL SCREW	—	—
1	BOX	42862	HW10X1/2ZT M PAK DRILL SCREW	—	—
1	BOX	42868	HW10X3/4ZT M PAK DRILL SCREW	—	—

### Bulk Packs

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	CTN	42821	HW7X1/2Z 15M PAK DRILL SCREW	—
1	CTN	42822	HW8X1/2Z 12M PAK DRILL SCREW	—
1	CTN	42825	HW8X1Z 7M PAK ZIP-IN SCREWS	—
1	CTN	42823	HW10X1/2Z 10M PAK DRILL SCREW	—
1	CTN	42824	HW10X3/4Z 8M PAK DRILL SCREW	—

### Bucket Packs

1	EA	42833	HW7X1/2ZP 7,500 ZIP-IN SCREWS PAILS	—
1	EA	42834	HW8X1/2ZP 7M ZIP-IN SCREWS PAILS	—
1	EA	42835	HW8X3/4ZP 5M ZIP-IN SCREWS PAILS	—





## Bit-Tip® Drill & Tap Screws



Bit-Tip drill and tap screws drill their own hole, which produces the optimum hole size, resulting in better thread engagement and a tighter fit. One operation fastening also means no alignment problems.

Point Size	Screw Size	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
2	8 - 18 x 1/2	1	BOX	42930	BT131T 8-18X1/2 M-PAK BIT TIP SCREW	—	—
2	8 - 18 x 3/4	1	BOX	42932	BT133T 8-18X3/4 500-PAK BIT TIP SCREW	—	—
2	8 - 18 x 3/4	1	CTN	42933	BT133 8-18X3/4 10M BULK BIT-TIP SCREW	—	—
2	10 - 16 x 3/4	1	BOX	42936	BT143T 10-16X3/4 500-PAK BIT TIP SCREW	—	—
2	10 - 16 x 3/4	1	CTN	42937	BT143 7M BIT-TIP SCREW	—	—



## Riveters



2-in-1

### 2-in-1

One hand operation with normal squeezing action provides enough pulling power to set all popular size rivets. 2-in-1 adjustment features a single long stroke for most hand riveting applications and a short "ratchet action" power stroke for setting larger diameter rivets.



CR18

Professional slim nose allows the 2-in-1 to go where other hand riveters cannot. Ideal for reaching into corners and recessed areas. Three nosepieces (1/8, 5/32 and 3/16") are included with tool.

### CR18

Lightweight, compact size, and slim nose projection allows the CR18 riveter to go wherever the work is. Four rivet nosepieces (3/32, 1/8, 5/32, 3/16") store in handle. Ideally suited for blind riveting applications in aluminum windows, gutter, and downspout. Not for use with 5/32" or 3/16" steel rivets.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	47143	2 IN 1 MALCO HAND RIVETER	—
3	EA	47140	CR18 MALCO HAND RIVETER	—



## Pop Rivets



The type and thickness of material in the joint to be riveted are major considerations when selecting the proper rivet. It is usually possible and advantageous to select a rivet material similar to the material of the sections being fastened. The total joint thickness determines the rivet length. The joint strength required determines the rivet diameter.

### Nomenclature

A	S	4	2	D
<b>Rivet Material</b>	<b>Stem Material</b>	<b>Rivet Diameter</b>	<b>Maximum Grip</b>	<b>Type of Head</b>
A=Aluminum S=Carbon Steel M=Monel SS=Stainless Steel C=Copper	A=Aluminum S=Carbon Steel SS=Stainless Steel	in 32nds of an inch	in 16ths of an inch	D=Dome Head L=Countersunk Head LF=Large Flange Head

Old USM Number	Dia. (In.)	Grip	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
AD-42-ABS	1/8	.063-.125	1	BOX	47151	AA-42-DT M PAK RIVET	—	—
AD-44-ABS	1/8	.188-.250	1	BOX	47152	AA-44-DT M PAK RIVET	—	—
AD-40-BS	1/8	.063-.125	1	BOX	47161	AS-42-DT M PAK RIVET	—	—
CD-42-BS	1/8	.063-.125	1	BOX	47166	CS-42-DX 100 PAK RIVET	—	—
SS-42-D	1/8	.063-.125	1	BOX	47169	SS-42-DT M PAK RIVET	—	—
SD-43-BS	1/8	.126-.187	1	BOX	47170	SS-43-DT M PAK RIVET	—	—
SD-44-BS	1/8	.188-.250	1	BOX	47171	SS-44-DT M PAK RIVET	—	—
SD-46-BS	1/8	.313-.375	1	BOX	47172	SS-46-DT M PAK RIVET	—	—
SD-64-BS	3/16	.126-.250	1	BOX	47223	SS-64-DT 500 PAK RIVET	—	—
SSD-42-SSBS	1/8	.063-.125	1	BOX	47228	SS/SS-42-DT M PAK RIVET	—	—
SSD-44-SSBS	1/8	.188-.250	1	BOX	47229	SS/SS-44-DT M PAK RIVET	—	—



## Anchor Kits



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	KIT	46465	80174 / 6608 3/8" ANCHOR KIT WITH 5/16" MASONRY DRILL BIT	—
5	KIT	46467	80168 / 6607 3/16" ANCHOR KIT	—



## Galvanized Mechanic's Wire



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
16	EA	48037	710-185G 5 LB 18 GA GALV MECH WIRE	—

## ELCO **TEXTRON** Hanger Mate® Threaded Rod Anchoring System



ZG365 Tapped to

- Use the Elco Hanger System to attach threaded rod and components to metal, masonry, or wood.
- Faster than beam clamps.
- No more predrilling metal or wood.
- Eliminates pounding or setting of unthreaded anchors into masonry.
- Easier to install than powder-actuated stud pin and coupling nut assemblies.
- Replaces coach screws, hanger bolts, swing connectors, and ceiling flanges.
- Eliminates multiple fastening forms.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
6	EA	40045	ZE215 INSTALLATION TOOL F/STEEL OR WOOD	—	—
6	EA	40046	ZE220 INSTALLATION TOOL F/MASONRY HANGERMATE	—	—
10	EA	40048	ZE360 - TANGED HANGERMATE CARDIE BIT .234	—	—
6	BOX	40087	ZG315 50 PAK 5/16-14X2-1/4 1/4-20 ROD END DRILLED WOOD HANGERMATE	—	—
6	BOX	40051	ZG470 1/4-20 X 1 #3 POINT HANGERMATE 3/8-16 ROD	—	—
6	BOX	40088	EZG650 50 PAK 5/16-14X2-1/4 3/8-16 ROD END DRILLED WOOD HANGERMATE	—	—

## ELCO **TEXTRON** Milled Point Drill Screws

Standard and specialty self-drilling fasteners for a variety of applications. Drill, tap, and fasten in one operation. Made in the U.S.A.

**PPH** = Phillips Pan Head

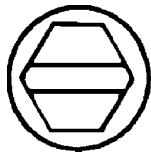
**HWH** = Hex Washer Head

**PWH** = Phillips Washer Head

**PFH** = Phillips Flat Head

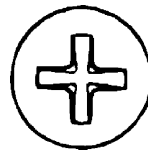
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	BOX	40071	AY255 8-18 X 3/4HWH STD FASTENERS-500PK	—
6	BOX	40067	AY745 12-14 X 1HWH STD FASTENERS - 250PK	—
6	BOX	40072	BY150 8-18 X 1 15/16PFH WOOD-METAL 250PK	—
6	BOX	40060	BY245 8-18 X 1/2PPH STD FASTENERS-1M	—
6	BOX	40066	BY465 10-16 X 1PPH STD FASTENERS - 500PK	—
6	BOX	40073	BY595 10-24 X 1PWH WOOD- METAL 250PK	—
6	BOX	40074	BY620 10-24 X 1 7/16PWH W/WINGS WOOD-METAL 250PK	—
6	BOX	40075	BY880 12-24 X 2 1/2PFH W/WINGS WOOD-METAL 100PK	—
6	BOX	40076	BY985 1/4-20 X 2 3/4PFH W/WINGS WOOD-METAL 100PK	—
6	BOX	40079	DY440/AY755 12-24 X 1 1/4HWH DRIL-IT #5PT HEAVY DUTY DRILLERS 250PK	—
6	BOX	40065	EDY220/AY485 10-16 X 1HWH STD FASTENERS - 500PK	—
6	BOX	40062	EY275 8-18 X 1HWH STD FASTENERS-500 PAK	—
6	BOX	40084	HY180 10-12 X 1 1/2 TAPFAST W/SEALING WASHERS 200PK	—
6	BOX	40080	HY207 12-14 X 1 FLO-SEAL W/SEALING WASHERS 250PAK	—
6	BOX	40083	HY330 1/4-14 X 1 FLO-SEAL W/SEALING WASHERS 250PK	—

ELCO **TEXTRON** Tapcon® Fasteners



**Slotted Hex Washer Head**

Use the Tapcon system to replace expansion anchors, powder-actuated fasteners, and plugs and screws. Tapcon is designed as a masonry fastening system and will perform properly only when all elements of the system are used. (Tapcon fasteners, Condrive® installation tools, and Elco carbide-tipped masonry drills).



**Phillips Flat Head**



**Carbide-tipped Drill Bit**

The condrive 1000 is a dual purpose tool that allows you to both drill the hole and drive the fastener. The Condrive tool fits the chucks of standard hammer drills. The Condrive 1000 is a 2-step, multi-purpose tool designed to be used with all sizes and styles of fasteners.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
5	EA	40330	LP100 CONDRIVE 1000	—	—
6	BOX	40300	LE300 3/16 X 1 1/4 SLOTTED HEX MASONRY 100PK	—	—
5	BOX	40305	LE350 3/16 X 3 3/4 SLOTTED HEX MASONRY 100PK	—	—
5	BOX	40306	LE360 3/16 X 4 SLOTTED HEX MASONRY 100PK	—	—
10	BOX	40307	LE405 1/4 X 1 1/4 SLOTTED HEX MASONRY 100PK	—	—
10	BOX	40308	LE415 1/4 X 1 3/4 SLOTTED HEX MASONRY 100PK	—	—
10	EA	40335	LT405 3/16 X 3 1/2 CARBIDE TIPPED DRILL BIT	—	—
10	EA	40337	LT425 3/16 X 5 1/2 CARBIDE TIPPED DRILL SET	—	—
6	BOX	40309	LE425 1/4 X 2 1/4 SLOTTED HEX MASONRY 100PK	—	—
10	EA	40336	LT415 3/16 X 4 1/2 CARBIDE TIPPED DRILL BIT	—	—
10	EA	40338	LT435 3/16 X 6 1/2 CARBIDE TIPPED DRILL SET	—	—
10	EA	40341	LT555 5/32 X 7 SDS CARBIDE TIPPED DRILL SET	—	—
10	EA	40342	LT630 3/16 X 5 SDS CARBIDE TIPPED DRILL BIT	—	—



**Flexible Duct Band**  
Cut to Length



Wrap around duct and insert other end of band in the pull through side and tool tighten with Q-Gun. Reusable. Simply lift pawl to release band. Insert either end of Q-Band into self-locking starter side of Q-Clip.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
40	BOX	44620	QB-100 1/2" 100' Q-BAND	—
100	PKG	44622	Q-CLIP 25/PKG	—
6	EA	44624	Q-GUN	—

**Thomas&Betts Ty-Fast Cable Ties**

L	36	175	HS	9	L
Product Prefix	Length	Tensile Strength	Type of Product	Color	Quantity
L=Cable Ties P=Plain Bagged Cable Ties	36=36 in.	18 lb. 30 lb. 40 lb. 50 lb. 120 lb. 175 lb. 250 lb.	Leave Blank=Nylon 66 HS=Heat Stabilized (Black and Natural Color Only) FL=Fluorescent MH=Mounting Head PM=Pushmount PMR=Pushmount Releasable R=Releasable TB=Restricted Bundle ID=Identification	0=Black (Weather Resistant) 9=Natural	Q=25 Pack L=50 Pack C=100 Pack D=500 Pack M=1000 Pack

**Natural Cable Ties**

**Sold in Full Packages Only**

Length (In.)	Width (In.)	Max. Bundle Dia. (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6.4	.100	1.50	1	PKG	44643	L6-18-9-C 6.4 IN 100 PAK MINI NAT CBL TIES	—
7.5	.187	1.75	1	PKG	44645	L7-50-9-C 7.5 IN 100 PAK STANDARD NAT CBL TIES	—
7.5	.185	1.75	1	PKG	44646	L7-50-MH-9-C 7.5 IN 100 PAK MOUNTING HEAD CBL TIES	—
14.1	.187	4.00	1	PKG	44648	L14-50-9-C 14.1 IN 100 PAK STANDARD NATURAL CBL TIES	—
28.0	.300	9.00	1	PKG	44650	L28-120-9-L 28 IN 50 PAK HEAVY DUTY NAT CBL TIES	—
36.0	.345	10-3/4	1	PKG	44652	L36-175-9-L 36 IN 50 PAK X HEAVY DUTY NAT CBL TIES	—
48.0	.345	15.00	1	PKG	44653	L48-175-9-L 48 IN 50 PAK X HEAVY DUTY NAT CBL TIES	—

**Black Cable Ties**

6.4	.100	1.50	1	PKG	44642	L6-18-0-C 6.4 IN 100 PAK MINI BLK CBL TIES	—
7.5	.187	1.75	1	PKG	44644	L7-50-0-C 7.5 IN 100 PAK STANDARD BLK CBL TIES	—
14.1	.187	4.00	1	PKG	44647	L14-50-0-C 14.1 IN 100 PAK STANDARD BLK CBL TIES	—
28.0	.300	9.00	1	PKG	44649	L28-120-0-L 28 IN 50 PAK HEAVY DUTY BLK CBL TIES	—
36.0	.345	10-3/4	1	PKG	44651	L36-175-0-L 36 IN 50 PAK X HEAVY DUTY BLK CBL TIES	—



**Clamp Tools**



TY4G



TY6

The TY4G manual cut-off tensioning tool features a unique notched gripper. Includes gray vinyl cushion grips. Works on all ties including thin designs. The TY6 adjustable, high leverage tensioning tool with automatic cut-off is designed for a heavy user of nylon ties. Works on all ties including thin designs.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	42950	TY4G MANUAL CUT-OFF TIE TOOL/GRIP'D	—
3	EA	42951	TY6 HIGH LEVERAGE TIE TOOL	—

**HARDCAST** Gripple® Duct Hanger



- Gripple's time saving qualities reduce installation by up to 6 times compared to threaded rod, chain or hanger strap.
- Gripple hangers provide the advantages of maximum speed, efficiency and safety.
- Gripple's lightness is a major safety improvement in reducing accident risk in aerial situations caused by falling materials.
- Gripple hangers are far less invasive than threaded rod and enhance the aesthetics of your installations.

**317297**

Grade AISI zinc galvanized cable. 1/8" diameter for use with No. 3 Gripple fastener only. 7 x 7 cable construction. SWL max 200 lbs.

**317296**

No. 3 Gripple fastener for use with no. 3 Gripple wire cable, SWL max 200 lbs.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	PKG	42058	317296 1/8" ROPE GRIP (10-PKG)	—
1	EA	42059	317297 1/8" METAL ROPE 500FT SPOOL	—
10	EA	42087	317302 KEY WITH BELT CLIP	—

**COOPER B-Line**

**Cush-A-Clamp Pipe Strap**



Assembly consists of Goldguard finish steel clamp with controlled squeeze shoulder bolt with locknut and modified thermoplastic elastomer cushion. Secure pipes, tubes, and hoses for fluid conductors with the Cooper B-Line Cush-A-Clamp system.

Installation is easy and requires no more time than a simple pipe clamp installation. The cushion absorbs the shocks and associated vibrations from fluid surges in tubes, pipes, and hoses. It can handle temperatures from 300° F down to -30° F. Cushions are available in sizes from 1/4" to 4-1/8".

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
25	EA	96025	BVT037 / A716 3/8 OD CUSH-A-CLAMP	—	—
25	EA	96026	BVT050 / A716 1/2 OD CUSH-A-CLAMP	—	—
25	EA	96027	BVT062 / A716 5/8 OD CUSH-A-CLAMP	—	—
25	EA	96028	BVT075 / A716 3/4 OD CUSH-A-CLAMP	—	—
25	EA	96029	BVT087 / A716 7/8 OD CUSH-A-CLAMP	—	—
25	EA	96030	BVT112 / A716 1-1/8OD CUSH-A-CLAMP	—	—
10	EA	96031	BVT137 / A716 1-3/8OD CUSH-A-CLAMP	—	—
10	EA	96032	BVT162 / A716 1-5/8OD CUSH-A-CLAMP	—	—
10	EA	96033	BVT212 / A716 2-1/8OD CUSH-A-CLAMP	—	—
10	EA	96034	BVT262 / A716 2-5/8OD CUSH-A-CLAMP	—	—
10	EA	96035	BVT312 / A716 3-1/8OD CUSH-A-CLAMP	—	—

**COOPER** B-Line

## Dura-Blok™ Rooftop Support System



DB5, DB10



DBM

### Features

- Reflective strip on both sides allow for easy product visibility on DBP, DB10, and DBE10-12
- 1" gap between blocks allows water to flow freely around longer assemblies
- Extends roof life
- Dampens vibrations
- No need for supplemental rubber pad
- Will not float
- Made from 100% recycled rubber

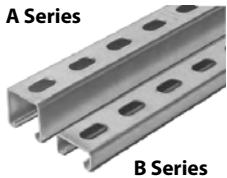
### Applications

- Pipe supports
- HVAC supports
- Roof walkway supports
- Duct supports
- Conduit supports
- Cable Tray Supports

Dimensions (W x L x H) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6 x 4.8 x 4	1	EA	96162	DBM DURABLOK 200 LBS CAPACITY ROOF TOP SUPPORT	—
6 x 4.8 x 5	1	EA	96163	DB5 DURABLOK 200 LBS CAPACITY ROOF TOP SUPPORT	—
6 x 9.6 x 4	1	EA	96164	DBP-DURABLOK 500 LBS CAPACITY ROOF TOP SUPPORT	—
6 x 9.6 x 5	1	EA	96165	DB10 500 LBS CAPACITY ROOF TOP SUPPORT	—
6 x 9.35 x 5-1/2 - 12	1	EA	96166	DBE 10-12 200 LBS CAPACITY ROOF TOP SUPPORT	—

**Thomas&Betts Superstrut Channel and Accessories**

A Series



B Series

- A Series Channel: 1-5/8" x 1-5/8"
- B Series Channel: 13/16" x 1-5/8"
- Series 1200 Channel: 12 gauge
- Series 1400 Channel: 14 gauge
- Goldguard Finish: The standard Goldguard finish on Superstrut products is a multi-step electrogalvanizing and zinc dichromate process.



AB Fittings



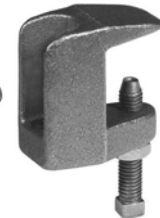
CM-100



H-119



M-775L



M-777



701

**Half Slot Channel**

**Priced Per CFT**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
500	FT	96037	A-1200-HS-10 10FT HALF SLOT CHANNEL	—	—
500	FT	96062	A-1200-HS-20 20FT HALF SLOT CHANNEL	—	—
500	FT	96036	A-1400-HS-10 10FT HALF SLOT CHANNEL	—	—
500	FT	96063	A-1400-HS-20 20FT HALF SLOT CHANNEL	—	—
500	FT	96038	B-1400-HS-10 10FT HALF SLOT CHANNEL	—	—
500	FT	96064	B-1400-HS-20 20FT HALF SLOT CHANNEL	—	—

**Fittings and Clamps**

50	EA	96040	AB-201 90 DEG CORNER FTG	—	—
100	EA	96041	AB-241 3/8 SQUARE WASHER	—	—
50	EA	96080	AB-242 3/8IN X 1/2IN FLAT PLATE FITTING	—	—
100	EA	96042	CM-100 3/8 NYLON CONE NUT	—	—
100	EA	96043	E-142 3/8X1 EG HEX CAP SCREW	—	—
100	EA	96044	E-145 3/8 STD HEX NUT	—	—
100	EA	46746	E-145 1/2 HEX NUT 100/BOX	—	—
100	EA	96045	E-147 3/8 FLAT STEEL WASHER	—	—
50	EA	96046	H-119 3/8 STD ROD COUPLING	—	—
100	EA	96047	M-775-B 3/8 CLAMP W/LOCK NUT	—	—
100	EA	96049	M-777-B 3/8 JR TOP BEAM C-CLAMP	—	—

**Pipe Clamps**

100	EA	96015	701 3/8 OD TUBING PIPE CLAMP	—	—
100	EA	96016	701 1/2 OD TUBING PIPE CLAMP	—	—
100	EA	96017	701 5/8 OD TUBING PIPE CLAMP	—	—
100	EA	96018	701 3/4 OD TUBING PIPE CLAMP	—	—
100	EA	96019	701 7/8 OD TUBING PIPE CLAMP	—	—
100	EA	96020	701 1-1/8OD TUBING PIPE CLAMP	—	—
100	EA	96021	701 1-3/8OD TUBING PIPE CLAMP	—	—
100	EA	96022	701 1-5/8OD TUBING PIPE CLAMP	—	—
50	EA	96023	701 2-1/8OD TUBING PIPE CLAMP	—	—
25	EA	96024	701 2-3/8OD TUBING PIPE CLAMP	—	—

**Threaded Rod**

150	FT	46676	H-104 3/8X6FT THREADED ROD	—	—
60	FT	46678	H-104 1/2X6FT THREADED ROD	—	—
250	FT	96039	H-104 3/8X10FT THREADED ROD	—	—



## Thomas & Betts Superstrut Pipe Straps and Pipe Hangers



CL710, CTL710



U716



6H-XXXX

### CL-710 Light Duty Adjustable Clevis

Carbon steel. Used on non-insulated, stationary pipe lines. A locknut above the clevis yoke is required to assure full rated load. Complies with Federal Spec. WW-H-171E and SP-69. Type 12. Standard Finish: Black.

### CTL-710 Light Duty Adjustable Clevis

Carbon steel, copper plated. For non-insulated copper tubing. Provide a locknut above the clevis yoke to assure full rated load. Complies with Federal Spec. WW-H-171E and SP-69. Type 12. Standard Finish: Copper Plated.

### CL710 Adjustable Clevis Pipe Hanger

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
100	EA	96050	CL7101B 1 IPS CLEVIS PIPE HGR	—	—
50	EA	96051	CL710B 1-1/2IPS CLEVIS PIPE HGR	—	—
100	EA	96052	CL-710-2 B 2" BLACK IPS CLEVIS PIPE HGR	—	—
50	EA	96053	CL710B 3 IPS CLEVIS PIPE HGR	—	—
30	EA	96054	CL710B 4 IPS CLEVIS PIPE HGR	—	—

### CTL710 Adjustable Clevis Pipe Hanger

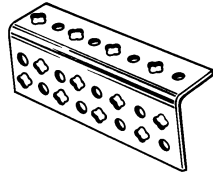
100	EA	96055	CTL710 1/2 NOM CLEVIS PIPE HGR	—	—
100	EA	96056	CTL710 3/4 NOM CLEVIS PIPE HGR	—	—
100	EA	96057	CTL710 1 NOM CLEVIS PIPE HGR	—	—
100	EA	96058	CTL710 1-1/2NOM CLEVIS PIPE HGR	—	—
100	EA	96059	CTL710 2 NOM CLEVIS PIPE HGR	—	—
50	EA	96060	CTL710 3 NOM CLEVIS PIPE HGR	—	—

### Omega Series Two-hole Cushioned Tube Clamp

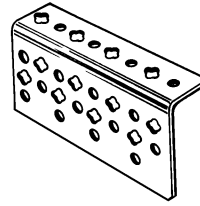
Copper O.D. (In.)	Copper Nom. (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
3/8	1/4	25	EA	96066	U716 3/8 OD OMEGA CLAMP	—	—
5/8	1/2	25	EA	96067	U716 5/8 OD OMEGA CLAMP	—	—
7/8	3/4	25	EA	96068	U716 7/8 OD OMEGA CLAMP	—	—
1-1/8	1	25	EA	96069	U716 1-1/8OD OMEGA CLAMP	—	—
1-5/8	1-1/2	10	EA	96071	U716 1-5/8OD OMEGA CLAMP	—	—

### Conduit Hanger, Type #304—Stainless Steel

Rigid Pipe (In.)	Conduit (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
3/8-1/2	1/2	100	EA	96076	6H0-TB 3/8-1/2 THREADED PIPE HGR	—	—
3/4	3/4	100	EA	96077	6H1-TB 3/4 THREADED PIPE HGR	—	—
1	1	100	EA	96078	6H2-B 1 PIPE HGR	—	—
1-1/4	1-1/2	100	EA	96079	6H3-B 1-1/4 PIPE HGR	—	—

**Thomas&Betts Superangle® Slotted Angle Latch-On System****RA225 Standard Duty Angle**

Type RA225 2-1/4" x 1-1/2". 14 gauge cold rolled steel. For bulk storage rack and majority of projects.

**RA300 Heavy Duty Angle**

Type RA 300 3" x 1-1/2". 12 gauge cold rolled steel. For jobs demanding heavier load capacities. Uses nut and bolt connections. Beam, Hammerlock, clips will not function.

**Slotted Angle****Priced per CFT**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
50	FT	21331	RA-225-10 14GA 10FT LATCH-ON/W-5 BOLTS	—	—
60	FT	21332	RA-225-12 14GA 12FT LATCH-ON/W 5 BOLTS	—	—
50	FT	21334	RA-300-10 12GA 10FT LATCH-ON/W 5 BOLTS	—	—
60	FT	21335	RA-300-12 12GA 12FT LATCH-ON/WITH 5 BOLTS	—	—

**Accessories**

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
RA225	75	BOX	21339	RA-BN-5/8 3/8X5/8 HEX HD BOLT/NUT	—

**Duct Sealants**

Flex Grip 550 (FG) is a water based, flexible indoor/outdoor synthetic resin duct sealant. It has the ability to accommodate minor vibration and movement. Designed for application by brush, putty knife, caulk gun, and pump. Gray.



Sure Grip 404 (SG) is a solvent based indoor synthetic rubber duct sealant that has exceptional strength, fast drying time, and unmatched flexibility. Designed for application by brush, putty knife, caulk gun, or trowel. Gray.

**1 Gallon Buckets**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 2 CTNS
4	EA	42419	FG550 1 GAL IN/OUT WATER BASE DUCT SEALANT	—	—	—
4	EA	42421	SG404 1 GAL SOLVENT BASE DUCT SEALANT	—	—	—

**Cartridges**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
25	EA	42420	FG550 10.3OZ CTG IN-OUT WATER BASE DUCT SEALANT	—	—
25	EA	42422	SG404 11 OZ CARTRIDGE SOLVENT BASE DUCT SEALANT	—	—



## Duct Liner Adhesives



### Roto-Tack Mid-Tack, High-Yield Water-Based Insulation Adhesive

Engineered for mechanical roll coating systems that rapidly apply adhesive to insulation prior to bonding to the sheet metal. Non-flammable.

### Insta-Tack (Glas-Grip GG636SE) Solvent Based Insulation Adhesive

A fast tacking solvent based, flammable (wet), self-extinguishing (dry), insulation adhesive. Designed for application by brush, roller, or spray. Red.

### Coil-Tack (formerly Glas-Grip GG901) High Yield Water Based Insulation Adhesive

A water based, nonflammable insulation adhesive engineered for coil line applications. Designed for application by roller, brush, or spray. Gray (wet), black (dry).

#### 5 Gallons

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	42423	GG636/INSTA-TACK 5 GAL FAST TACK SOL BASE ADHESIVE	—	—
1	EA	42427	308582/GG901 5 GAL COIL-TACK BLACK	—	—
1	EA	42429	308574 ROTO-TACK CLEAR 5 GALLON WATER BASE INSULATION ADHESIVE	—	—

#### 50 Gallons

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	42430	308584/GG901 50 GAL COIL-TACK BLACK	—



## Aerosol Duct Insulation Adhesive



Glas Grip GG658 is a fast setting, pressure sensitive insulation adhesive. The self-contained spray system delivers a low pressure web spray that eliminates adhesive vaporization and spray bounce back. Solvent based yet has limited flammability. Green.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	42413	GG658 SPRAY GUN - 304300	—
1	EA	42414	GG658 6FT HOSE - 304302	—
1	EA	42415	GG658 12FT HOSE - 304303	—
1	EA	42424	GG658 12LB AEROSOL CYL/304293/308600	—
1	EA	42425	308602 40LB AEROSOL CYLINDERS / 308602	—
12	EA	42428	GG658 12OZ 308599 TRAVEL TACK SPRAY ADHESIVE	—

# LA-CO<sup>®</sup> Pipe Thread Compounds



### Pipetite<sup>®</sup> Paste

Premium grade thread compound. For refrigerants, butane, propane, gasoline, oil, as well as water, steam, air, natural gas. U.L. listed.



### Pierce<sup>®</sup> Molecular Deep Penetrant and Water Displacer

A specially designed low surface tension activator helps Pierce to power its way under the most stubborn rust or moisture conditions. Pierce is non-acid in nature and has a neutral PH. Minimizes pitting or roughening of delicate metal parts.

- Rust Penetrant
- Moisture Displacer
- Rust Preventor
- Corrosion Control
- Lubricant



T-O-T<sup>®</sup> Pipe Joint



Teflon Thread Tape



Slic-tite<sup>®</sup> with Teflon

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	53984	95419 1/4 PT PIPETITE PASTE BIC	—	—
24	EA	53985	95420 1/2 PT PIPETITE PASTE BIC	—	—
24	EA	50824	95423 12 OZ PIERCE SPRAY CAN	—	—
24	EA	53972	95415 1/2 PT T-O-T PIPE COMPOUND BIC	—	—
144	EA	53975	95410 1/2X520 LOW DEN TEFLON THREAD TAPE	—	—
12	EA	53973	95530 3/4X300 SLICTITE TEFLON THREAD TAPE	—	—
12	EA	53969	95407 SLIC-TITE TEFLON STIK	—	—
24	EA	53968	95402 1/2 PT SLIC-TITE TEFLON PASTE BIC	—	—

# Oatey<sup>®</sup> Cutting Oil



### 30201 Clear Thread Cutting Oil

- Protection helps make sharp clean threads while extending the life of your dies.
- Formulated for hand thread cutting machines.
- Anti-mist and non-staining formula is not affected by weather.



### 30205 Dark Thread Cutting Oil

- Formulated for high speed cutting machines.
- A special mixture of sulfonated and chlorinated oils provides high film strength.
- Keeps machines running cooler and extends the life of your dies.
- Anti-mist and non-staining formula is not affected by weather.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	50833	30201 32 OZ HAND THREADING CLEAR CUTTING OIL	—	—
6	EA	50834	30205 1 GAL SPEED THREADING DARK CUTTING OIL	—	—



## Utility Caulking Gun

- Slotted front for easy loading
- 1/10 gallon capacity



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	41879	CG10 1/10 GAL UTILITY CAULKING GUN	—	—



## Ultra Multi-Purpose Silicone

TVM Ultra Multi-Purpose Silicone is a single component acetoxy silicone that meets the requirements for food contact applications under NSF 51. TVM Ultra MP will cure to form a permanently elastic, high modulus, water resistant seal.

- Excellent adhesion to most building substrates
- UV-resistant
- Appropriate for general weather sealing, top sealing in glazing applications, and sealing in refrigeration and food preparation areas.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	41866	1-23-12-004-TT ALUM ULTRA MP SILICONE SEALANT	—	—
12	EA	41867	1-23-12-000-TT CLEAR ULTRA MP SILICONE SEALANT	—	—
12	EA	41868	1-23-12-001-TT WHITE ULTRA MP SILICONE SEALANT	—	—



## High Temperature Silicone Sealant

TVM High Temperature Silicone Sealant is a high quality elastic sealant that cures to form a vibration resistant, low modulus, water resistant seal. It has been specially formulated to resist extremely high temperatures while adhering to a wide range of materials. Tack-free Time: 17 minutes. Cure Time: 24 hours.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	41870	1-24-12-003-TT HIGH TEMP GASKET MAKING SILICONE SEALANT	—	—



## Seam Sealer



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	21391	2110 SEAM SEALER	—	—



## Firestop Sealant

- Latex-based intumescent sealant.
- Meets many applications and codes.
- Provides up to a 3-hour fire rating.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	41900	25696 10 OZ CARTRIDGE FIRESTOP SEALANT	—	—



## DiversiGum Sealing Compound

Non-hardening. For plugging openings through foundations or around refrigeration tube entry.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	41604	6-202-1 1LB DIVERSIGUM SEALING COMPOUND	—	—



## Permagem Sealing Compound Slugs and Cord

Non-hardening, water resistant, non-staining, non-bleeding, excellent adhesion. Specifically designed to exclude dirt, dust, water, and moisture from joints.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	42006	PP22 2LB PERMAGUM SLUG	—	—
12	EA	42005	PP33 3/16IN X 100FT SEALING GUM CORD	—	—

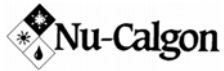


## Nu-Foam Expanding Sealant

Nu-Foam is an expanding polyurethane prepolymer foam that is used as a sealant and an insulating product. Ideal for sealing and insulating areas as openings created for refrigeration, air conditioning, and heating pipes.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	95972	4293-04 9 OZ CAN NU-FOAM NU-FOAM EXPANDING SEALANT	—	—



## Pan-Spray Instant Leak Sealer and Patch Product

Pan-Spray is the quick and easy to use product for sealing all kinds of leaks. Pan-Spray dispenses a white, waterproof, and rubberized coating that won't chip, crack, flake or peel. Easy to apply, long lasting and can be applied under wet conditions. Pan-Spray contains no CFCs.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	95980	4296-50 16 OZ CAN WHITE PAN LEAK SEALANT	—	—



## Plastic Roof Cement



### Plastic Wet or Dry Roof Cement

A thick blend of liquid asphalt and fibers specially designed as a patching material, adhesive, and general utility sealing compound that imparts water-repellency to flashings, seams, or patches in roofs and gutters.

- Bonds rapidly to wet, moist, and cold surfaces.
- Seals leaks, even in rain
- Dries black

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-11	PC-2 12-23	PC-3 24
12	EA	41872	61719 10 OZ TUBE WET OR DRY SURFACE ROOF CEMENT	—	—	—
6	EA	41943	61711 1 GAL WET OR DRY SURFACE PLASTIC ROOF CEMENT	—	—	—
1	EA	41942	61715 5 GAL WET OR DRY ROOF CEMENT	—	—	—



## Liquid Fiber Roof Coating



A mixture of liquid asphalt and non-asbestos fibers which forms a tough, adhesive bond with most roof surfaces. One coating is highly resistant to water and other types of weathering damage. Use for roofs or foundations, above or below grade.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-11	PC-2 12-23	PC-3 24
6	EA	41948	62701 1 GAL FIBER ROOF AND FOUNDATION COAT	—	—	—
1	EA	41954	62705 5 GAL FIBER ROOF AND FOUNDATION COAT	—	—	—

## Insulating Cement

For use with boilers, furnaces, tanks, fittings, breechings, ducts, etc.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	BAG	42123	1525 INSUL-ALL CEMENT	—



**223 Multi-Purpose Duct Tape**

For use with sealing duct work, general purpose packaging, holding insulation materials in place, and condensation barrier in refrigeration assemblies. Good tensile strength and good adhesion and tack. Conformable and will not twist or curl during application. Meets UL 723.

**229 Silver Tape**

Seal seams and joints of heating, air conditioning duct, duct insulation, slab ducts, intake and exhaust systems. Polyethylene coated cloth backing. Grey natural rubber adhesive.

**243 Black Duct Tape**

Superior adhesive formulation with an extremely soft and comfortable backing. Offers high performance in cold temperatures. Meets UL 723.

**251 Metallized Duct Tape**

This professional grade tape is for use with duct systems, foil covered sheathing, and fiberglass insulation board. High tensile strength, adhesion, and tack. Meets UL 723.

**330 Extreme Weather Foil Tape**

All-weather duct tape, working temperature range of -35° to 260° F, plain dead soft aluminum foil-faced duct systems. High adhesion and quick stick.

**337 Foil Duct Board Tape**

Features a plain dead soft aluminum foil backing and has a synthetic rubber adhesive interleaved with the release line. Matches most foil laminated duct work. Meets UL 723 requirements.

**338 Foil Duct Board Tape**

Aluminum foil/scrim/kraft backing with a specially formulated adhesive interleaved with a release liner. The diamond pattern matches most FSK boards and blankets. Meets UL 723 requirements.

**339 Foil Duct Board Tape**

The 339 Tape meets the SMACNA pressure-sensitive tape performance standard AFTS-100-73 and application standard AFTS-101-73. It should be used in applications where UL 181A-P rated system and high performance adhesive are required. (Acrylic based Adhesive).

**357 Premium Grade Duct Tape**

Superior tensile strength with clean release. Tears straight, hangs straight, and resists curling. UL723 tested.

**360 Waterproofing and Repair Tape**

Heavy-duty, all weather tape that is specially constructed foil backed butyl rubber adhesive that provides an instant bond that will not crack or soften in varying temperature ranges from 0° to 300° F.

**367-17 Foilmastic Aluminum**

Indoor/Outdoor sealing of low, medium, and high pressure HVAC systems. Seal cracks and seams in gutters, roof alleys, eaves, hips, and ridges. UL 181B-FX listed.

**444 Line Set Tape**

This tape is UV resistant, tough polypropylene film coated with an aggressive acrylic adhesive designed for high initial adhesion and long term durability.

**555 Flexfix Flexible Duct Sealing**

Economy grade, hand tearable, polypropylene tape; for use on flexible air duct closure systems. UL181B-FX listed.

**557 Tape for Flex Duct**

Superior closure system for use with Flexible Air Ducts and Air Connectors. Possesses excellent shear properties and tensile strength. Excellent resistance to mold growth, humidity, flame spread, smoke generation, and high temperatures. UL181B-FX listed.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 1-4 CTNS	PC-3 5 CTNS
24	EA	44017	223 2X60 SILVER DUCT TAPE	—	—	—
32	EA	44019	229 1 1/2X60 SILVER TAPE UL723 CERTIFIED	—	—	—
24	EA	44020	229 2X60 SILVER TAPE UL723 CERTIFIED	—	—	—
16	EA	44022	229 3X60 SILVER TAPE UL723 CERTIFIED	—	—	—
24	EA	44016	243 2X60 BLACK TAPE	—	—	—
24	EA	44024	251 2X60 METALLIZED DUCT TAPE	—	—	—
16	EA	44038	330 72MM X 46M EXTREME WEATHER TAPE	—	—	—
16	EA	44774	337 2 1/2X50 FOIL TAPE UL723 CERTIFIED	—	—	—
16	EA	44775	337 3 X 50 FOIL TAPE UL723 CERTIFIED	—	—	—
16	EA	44769	338 3X50 ALUMINUM FOIL FSK TAPE UL723 CERTIFIED	—	—	—
16	EA	44770	339 2-1/2X60 UL181A-P TAPE	—	—	—
24	EA	44018	357 2X60 NASHUA BLACK DUCT TAPE	—	—	—
16	EA	41881	360-45 3X30FT FOILASTIC TAPE	—	—	—
12	EA	41882	360-45 4X30 FT FOILASTIC TAPE	—	—	—
24	EA	44015	367-17 48X31 FOILMASTIC ALUMINUM	—	—	—
24	EA	44037	444 48MM X 55M LINE SET TAPE	—	—	—
36	EA	44771	555 48MM X 110M FLEXFIX UL181B-FX HI-TACK TAPE	—	—	—
24	EA	44021	557 2"X 60 UL181BFX 22KF DUCT TAPE	—	—	—





## Square D QO Series Replacement Circuit Breakers



Direct replacement for single and double pole breakers. Rated at 10,000 A/C, 102/240 Vac, and 60 Hz. for Square D load centers. Single Pole Breaker requires one 3/4" space and Double Pole Breaker requires two 3/4" spaces.

### Single Pole Breakers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	76871	CH-CHQ115 1 POLE 15 AMP CIRCUIT BREAKER	—
1	EA	76872	CH-CHQ120 1 POLE 20 AMP CIRCUIT BREAKER	—

### Double Pole Breakers

1	EA	76873	CH-CHQ215 2 POLE 15 AMP CIRCUIT BREAKER	—
1	EA	76875	CH-CHQ220 2 POLE 20 AMP CIRCUIT BREAKER	—
1	EA	76879	CH-CHQ230 2 POLE 30 AMP CIRCUIT BREAKER	—
1	EA	76880	CH-CHQ240 2 POLE 40 AMP CIRCUIT BREAKER	—
1	EA	76881	CH-CHQ250 2 POLE 50 AMP CIRCUIT BREAKER	—



## Classified Circuit Breakers



These circuit breakers are UL classified for use with circuit breaker panels using GE, Crouse Hinds, Murray, Square D Homeline, Thomas & Betts, and ITE/Siemens.

### Single Pole Breakers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	76911	CH-CL115 15AMP 120/240V SINGLE POLE CIRCUIT BREAKER	—
1	EA	76912	CH-CL120 20AMP SINGLE POLE CIRCUIT BREAKER	—

### Double Pole Breakers

1	EA	76913	CH-CL215 15AMP 120/240V DOUBLE POLE CIRCUIT BREAKER	—
1	EA	76914	CH-CL220 20AMP 120/240V DOUBLE POLE CIRCUIT BREAKER	—
1	EA	76878	CHCPD-CL225 25 AMP 2 POLE CIRCUIT BREAKER	—
1	EA	76915	CH-CL230 30AMP DOUBLE POLE CIRCUIT BREAKER	—
1	EA	76916	CH-CL240 40AMP 120/240V DOUBLE POLE CIRCUIT BREAKER	—
1	EA	76917	CH-CL250 50AMP 120/240V DOUBLE POLE CIRCUIT BREAKER	—



## Li'l Popper Control Circuit Breaker



Li'l Popper control circuit breaker can save a technician dozens of blow fuses while diagnosing control circuit failures. Simply plug the leads in to the ATC fuse receptacle on the board, and manually reset the Li'l Popper each time the breaker blows. Has a quick setting thermal cut out. Self adhering backing allows the unit to be left on the job site overnight if necessary.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	76776	POP3 3 AMP CONTROL CIRCUIT BREAKER	—
1	EA	76777	POP5 5 AMP CONTROL CIRCUIT BREAKER	—



## Bussmann Fuses and Adaptors



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
4	EA	76814	82316 3 2/10 AMP DUAL ELEMENT S PLUG FUSE	—	—
4	EA	76815	82323 6 1/4 AMP DUAL ELEMENT S PLUG FUSE	—	—
4	EA	76810	82330 15 AMP DUAL ELEMENT S PLUG FUSE	—	—
4	EA	76811	82331 20 AMP DUAL ELEMENT S PLUG FUSE	—	—
4	EA	76813	82333 30 AMP DUAL ELEMENT S PLUG FUSE	—	—



## Fusetron Box Cover Units



Type SSU



Type SSX



Type SSY

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	76836	84795 TYPE SSU 2X4 T PLUG BOX COVER	—	—
10	EA	76837	84814 TYPE SSX 4 INCH OCTGN T PLUG FUSE BOX COVER W/ SWITCH	—	—
10	EA	76838	84794 TYPE SSY 4 INCH SQUARE T PLUG FUSE BOX COVER OX COVER	—	—



## Furnace Switch "The Old Switcheroo"



This furnace switch device is a heavy-duty industrial magnet designed to hold down pop out switches while the technician troubleshoots the furnace or air handler. Its extension wings can reach pop-out switches from an adjacent metal surface.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
24	EA	81288	FF75 THE "OLD SWITCHEROO"	—



## ATC Fuses For Automotive Use

For mounting in specially designed fuse blocks. Non-time-delay type, totally enclosed fuse link confines arc, and transparent for visual inspection of element.

**Test Specifications:**

- Load: 100%
- Opening Time: 4 Hours (Min.)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	EA	76781	ATC-3 3 AMP BUSS FUSE	—
5	EA	76779	ATC-5 5 AMP BUSS FUSE	—

# MARS Fusetron Fuses



T Series



TR Series



TRS Series



263-R

## T Series Fuses

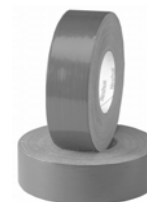
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
4	EA	76825	82340 5A 125V DUAL ELEMENT T PLUG FUSE	—	—
4	EA	76826	82341 6 1/4A 125V DUAL ELEMENT T PLUG FUSE	—	—
4	EA	76827	82342 8A 125V DUAL ELEMENT T PLUG FUSE	—	—
4	EA	76828	82343 10A 125V DUAL ELEMENT T PLUG FUSE	—	—
4	EA	76829	82346 15A 125V DUAL ELEMENT T PLUG FUSE	—	—
4	EA	76830	82347 20A 125V DUAL ELEMENT T PLUG FUSE	—	—
4	EA	76831	82352 25A 125V DUAL ELEMENT TD CSA PLUG FUSE	—	—
4	EA	76832	82349 30A 125V DUAL ELEMENT T PLUG FUSE	—	—

## FRN and FRS Series Fuses and Fuse Reducer

10	EA	76782	82039 35A 250V FRN CARTRIDGE FUSE	—	—
10	EA	76783	82040 40A 250V TR CARTRIDGE FUSE	—	—
10	EA	76784	82042 50A 250V TR CARTRIDGE FUSE	—	—
10	EA	76785	82043 60A 250V TR CARTRIDGE FUSE	—	—
5	EA	76786	82045 80A 250V TR CARTRIDGE FUSE	—	—
5	EA	76787	82047 100A 250V TR CARTRIDGE FUSE	—	—
10	EA	76793	82037 25A 250V TR CARTRIDGE FUSE	—	—
10	EA	76794	82041 45A 250V TR CARTRIDGE FUSE	—	—
10	EA	76797	82032 10A 250V TR CARTRIDGE FUSE	—	—
10	EA	76798	82034 15A 250V TR CARTRIDGE FUSE	—	—
10	EA	76799	82036 20A 250V TR CARTRIDGE FUSE	—	—
10	EA	76800	82038 30A 250V TR CARTRIDGE FUSE	—	—
10	EA	76801	82142 60A 600V TRS CARTRIDGE FUSE	—	—
10	PR	76806	82975 263M/H632 FUSE REDUCER (1 PAIR)	—	—

NOTE: FRN-R Series have a 250 volt capacity and FRS-R Series have a 600 volt capacity.

## Covalence Adhesives Plastic Electrical Tape



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
200	EA	76991	777-1D 3/4X60FT ELECTRICAL TAPE	—

## MARS Liquid-Tight Cable



Liquid-Tight cable is grounded and U.L. approved. Cables are sold in full cartons only.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4 CTNS	PC-2 5 CTNS
100	FT	76854	84102 UL-1/2 IN LIQUID-TIGHT W/GRD	—	—
100	FT	76855	84110 EF-1/2 IN LIQUID-TIGHT L/GRD	—	—
100	FT	76856	84103 UL-3/4 IN LIQUID-TIGHT W/GRD	—	—
100	FT	76857	84111 EF-3/4 IN LIQUID-TIGHT L/GRD	—	—
1	RLL	76858	84118 1/2" NON-METALLIC CONDUIT 100'	—	—
1	RLL	76859	84119 3/4" NON-METALLIC CONDUIT 100'	—	—

**Thomas & Betts Liquid-Tight Connectors**



Straight Connect



Elbow

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
25	EA	76962	LT201 1/2IN LIQUID-TIGHT CONN	—	—
20	EA	76963	LT202 3/4IN LIQUID-TIGHT CONN	—	—
25	EA	76964	LT291 1/2IN LIQUID-TIGHT EL	—	—
30	EA	76965	LT292 3/4IN LIQUID-TIGHT EL	—	—
25	EA	76966	85016 1/2" NON-METAL STR CONNECT	—	—
10	EA	76967	85017 3/4 NON-METAL STR CONNECT	—	—
10	EA	76968	85020 1/2" 90 DEG NON-METAL CONNECT	—	—
10	EA	76969	85021 3/4" 90 DEG NON-MET CONNECT	—	—

**MA-LINE Wire Connectors**  
MORTI AND ASSOCIATES, INC.

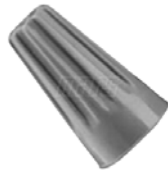


STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	54039	MA06295P ASSORTED WIRE CONNECTORS 240/P	—

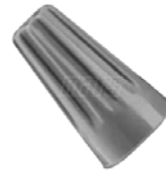
**MARS Wire Connectors**



10-002 Blue



10-003 Orange



10-004 Yellow



10-086 Red

**10-002 Blue**  
Wire Range: 22-14  
AWG  
Min.: 3 No. 22

**10-003 Orange**  
Wire Range: 18-14  
AWG  
Min.: 2 No. 18

**10-004 Yellow**  
Wire Range: 22-10  
AWG  
Min.: 2 No. 18

**10-086 Red**  
Wire Range: 18-10  
AWG  
Min.: 2 No. 16

**10-089 Blue**  
Wire Range: 14-6  
AWG  
Min.: 1 No. 10 and  
1 No. 12

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	BOX	76983	25941 (10-002) BLUE WIRE CONNECTORS 100/BOX	—	—
10	BOX	76984	25942 (10-003) ORANGE WIRE CONNECTORS 100/BOX	—	—
10	BOX	76985	25943 (10-004) YELLOW WIRE CONNECTORS 100/BOX	—	—
10	BOX	76986	25939 (10-086) RED WIRE CONNECTORS 100/BOX	—	—
10	BOX	76987	25940 (10-089) BLUE WIRE CONNECTORS 25/BOX	—	—



# Wire Solderless Connectors



Insulated Butt Connector



Compressor Terminal



Replacement Compressor Lead



Non-insulated Disconnect



Insulated Disconnect



Male Insulated Connector



Insulated Butted Seam Ring



Insulated Spade Terminal



Flag Disconnect



Terminal Kit

## Insulated Butt Connector

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PKG	76620	B211 22-18W INSL BUTT CONN 18/PK	—
1	PKG	76621	B222 16-14W INSL BUTT CONN 18/PK	—
1	PKG	76622	B222C 16-14W INSL BUTT CONN 100/PK	—
1	PKG	76623	B233 12-10W INSL BUTT CONN 11/PK	—
1	PKG	76624	BA22 INSL BUTT CONN 16/PK	—

## Wire Connectors

1	PKG	76625	C222 22-14W WIRE CONN	—
1	PKG	76626	C223 18-10W WIRE CONN 15/PK	—
1	PKG	76627	C241 BLUE WIRE CONN 20/PK	—
1	PKG	76628	C243 ORANGE WIRE CONN 15/PK	—
1	PKG	76629	C312 3 - #12 YELLOW WIRE CONN 13/PK	—
1	PKG	76630	C312L 3 - #12 YELLOW WIRE CONN 50/PK	—
1	PKG	76631	C512 5 - #12 RED WIRE CONN 10/PK	—
1	PKG	76632	C512L 5 - #12 RED WIRE CONN 50/PK	—

## Compressor Terminal (Requires Dimple Crimper)

1	PKG	76633	CC32 .250 COMP TERMINAL 6/PK	—
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## Replacement Compressor Lead 12 Inch Long with Butt Connection, 24 Inch Long with Ring Connection

1	PKG	76634	CC33 12IN REPL COMPRESSOR LEAD 3/PK	—
1	EA	76687	CC33-24 24IN REPL COMP LEAD W/RING 3/PK	—

## Non-Insulated Disconnects

1	PKG	76635	D011 22-18W 3/16IN NON-INSL DISC 30/PK	—
1	PKG	76636	D012 22-18W 1/4IN NON-INSL DISC 30/PK	—
1	PKG	76637	D022 16-14W 1/4IN NON-INSL DISC 30/PK	—
1	PKG	76638	D022C 16-14W 1/4IN NON-INSL DISC 100/PK	—
1	PKG	76639	D032 12-10W 1/4IN NON-INSL DISC 25/PK	—

## Insulated Disconnects

1	PKG	76640	D211 22-18W 3/16IN INSL DISCONNECT 16/PK	—
1	PKG	76641	D212 22-18W 1/4IN INSL DISCONNECT 16/PK	—
1	PKG	76642	D222 16-14W 1/4IN INSL DISCONNECT 16/PK	—
1	PKG	76643	D222C 16-14W 1/4IN INSL DISCONNECT 100/PK	—
1	PKG	76644	D232 12-10W 1/4IN INSL DISCONNECT 12/PK	—
1	PKG	76645	D232C 12-10W 1/4IN INSL DISCONNECT 100/PK	—

## Male Insulated Connector

1	PKG	76649	DM22 16-14W 1/4IN INSL DISCONNECT 16/PK	—
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## Assorted D Series Disconnects

1	PKG	76646	DA22 ASST DISCONNECTS 18/PK	—
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Continued on the Following Page

*Continued from the Previous Page*

**Non-Insulated High Temperature Terminals (up to 900° F)**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PKG	76647	DH22 16-14W 1/4IN FEMALE DISCONNECT 20/PK	—
1	PKG	76648	DH32 12-10W 1/4IN FEMALE DISCONNECT 13/PK	—
1	PKG	76658	FH22 16-14W 1/4IN FLAG DISCONNECT 18/PK	—
1	PKG	76659	FH32 12-10W 1/4IN FLAG DISCONNECT 12/PK	—
1	PKG	76669	RH22 16-14W 10 STUD RINGS 22/PK	—
1	PKG	76670	RH32 12-10W 10 STUD RINGS 15/PK	—

**Insulated Butted Seam Rings**

1	PKG	76665	R221 16-14W 8 STUD RINGS 16/PK	—
1	PKG	76666	R222 16-14W 10 STUD RINGS 16/PK	—
1	PKG	76667	R232 12-10W 10 STUD RINGS 12/PK	—

**Insulated Spade Terminals**

1	PKG	76671	S221 16-14W 8 STUD SPADE TERM-INSL 16/PK	—
1	PKG	76672	S222 16-14W 10 STUD SPADE TERM-INSL 16/PK	—
1	PKG	76673	S231 12-10W 8 STUD SPADE TERM-INSL 12/PK	—
1	PKG	76674	S232 12-10W 10 STUD SPADE TERM-INSL 12/PK	—

**Special Disconnects**

1	PKG	76651	DS22 16-14W 1/4IN F/M PIGGYBACK 10/PK	—
1	PKG	76652	DS23 1/4IN F/M PIGGYBACK 20/PK	—
1	PKG	76653	DS24 16-14W 1/4IN F/M WIRE PIGGYBACK 5/PK	—
1	PKG	76654	DXF2 16-14W 1/4IN FEM DISC FULL INSL 10/PK	—
1	PKG	76655	DXM2 16-14W 1/4IN MALE DISC FULL INSL 10/PK	—

**Flag Disconnects**

1	PKG	76656	FD22 16-14W 1/4IN FLAG DISCONNECT 25/PK	—
1	PKG	76657	FD32 12-10W 1/4IN FLAG DISCONNECT 10/PK	—

**Vinyl Grommets**

1	PKG	76660	GVA1 SMALL ASST GROMMETS 15/PK	—
1	PKG	76661	GVA2 LARGE ASST GROMMETS 5/PK	—

**Terminal Kit in Plastic Box**

1	PKG	76686	PA25 TERMINAL KIT 450/PK	—
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**Superflex Text Lead Red and Black 36" Lead with Boot and Clips**

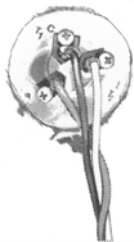
1	SET	76688	FTL3 36IN TEST LEAD 2/PKG	—
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**High Temperature Wire (600V, 10 Ft.)**

1	PKG	76689	WHT20 14GA 600V HI-TEMP WIRE 1/PK	—
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**QwikLug™ Compressor Terminal Repair Kit**



Kit replaces damaged or corroded spade terminals and fits all standard compressor terminals. Non metallic connector prevents short circuits. Tightens from the front with a screwdriver for fast installation.

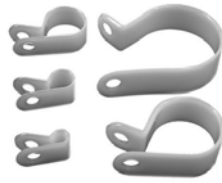
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	BAG	90137	QT2810 QWIKLUG - 10 AWG LEADS 3 TERM COMPRESSOR REPAIR LUGS	—
10	BAG	90138	QT2812 QWIKLUG - 12 AWG LEADS 3 TERM COMPRESSOR REPAIR LUGS	—



# Wire Ties, Cable Clamps, and Tubing



Wire Ties



WCA1



Heat Shrink Tubing

## Wire Ties

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PKG	76677	WT04 4IN WIRE TIES 40/PK	—
1	PKG	76678	WT07 7IN WIRE TIES 30/PK	—
1	PKG	76679	WT07C 7IN WIRE TIES 100/PK	—
1	PKG	76680	WT11 11IN WIRE TIES 15/PK	—
1	PKG	76681	WT11C 11IN WIRE TIES 100/PK	—
1	PKG	76683	WT15C 5IN WIRE TIES 100/PK	—

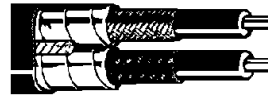
## Cable Clamps and Wire Tie Mounts

1	PKG	76676	WCA1 1/8 - 1 IN ASST CABLE CLAMPS 26/PK	—
1	PKG	76685	WTM1 WIRE TIE MOUNTS 4/PK	—
1	PKG	76690	WC04 1/4IN NYLON CABLE/WIRE CLAMPS 35/PKG	—

## Heat Shrink Tubing, Black, 50% Shrink, Commercial Grade

1	PKG	76662	HSA1 ASST HEAT SHRINK TUBING 7/PK	—
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## Electrical Cable



Romex Cable



Greenfield Cable

### Romex Cable—To be Sold Full Coils Only

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	Per Roll		
				PC-1 1-4 CTNS	PC-2 5-9 CTNS	PC-3 10 CTNS
1	RLL	76733	84251 6-2 ROMEX CABLE W/GROUND 125FT	—	—	—
1	RLL	76734	84253 8-2 ROMEX CABLE W/GROUND 125FT	—	—	—
1	RLL	76735	84257 12-2 ROMEX CABLE W/GROUND 250FT	—	—	—
1	RLL	76737	84259 14-2 ROMEX CABLE W/GROUND 250FT	—	—	—
1	RLL	76743	84255 10-2 ROMEX CABLE W/GROUND 250FT	—	—	—

### Greenfield Cable, U.L. Approved—To be Sold in Full Coils Only

1	RLL	76860	MA-40038 3/8IN 100FT FLEXIBLE CONDUIT	—	—	—
1	RLL	76861	MA-40050 1/2IN 100FT FLEXIBLE CONDUIT	—	—	—



## Stranded Shielded Plenum Wire



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	RLL	76708	18-2 500FT STR SHIELDED PLENUM STAT WIRE	—	—	—
1	EA	76710	18-6 500FT STR SHIELDED PLENUM STAT WIRE	—	—	—
1	RLL	76712	18-3 500FT STR SHEILDED PLENUM STAT WIRE	—	—	—



## THHN Stranded and Solid Wire



Type THHN is a small diameter general purpose 600V building wire. U.L. Standard 83 THHN 90° C Dry.

**To be Sold in Full Coils Only**

**Per Roll**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	RLL	76729	14-4 50FT SOL THHN COMPACT 600	—	—	—
1	RLL	76745	THHN #10 RED STRANDED WIRE 500'	—	—	—
1	RLL	76746	THHN #10 WHITE STRANDED WIRE 500'	—	—	—
1	RLL	76747	THHN #10 BLACK STRANDED WIRE 500'	—	—	—
1	RLL	76748	THHN #10 GREEN STRANDED WIRE 500'	—	—	—
1	RLL	76750	THHN #12 BLACK SOLID WIRE 500'	—	—	—
1	RLL	76751	THHN #12 WHITE SOLID WIRE 500'	—	—	—
1	RLL	76755	THHN #8 RED STRANDED WIRE 500'	—	—	—
1	RLL	76756	THHN #8 BLACK STRANDED WIRE 500'	—	—	—
1	RLL	76757	THHN #12 RED STRANDED WIRE 500'	—	—	—
1	RLL	76758	THHN #12 WHITE STRANDED WIRE 500'	—	—	—
4	RLL	76759	THHN #12 BLACK STRANDED WIRE 500'	—	—	—
1	RLL	76760	THHN #12 GREEN STRANDED WIRE 500'	—	—	—
1	RLL	76762	THHN #14 RED SOLID WIRE 500'	—	—	—
1	RLL	76763	THHN #14 BLACK SOLID WIRE 500'	—	—	—
1	RLL	76764	THHN #14 WHITE SOLID WIRE 500'	—	—	—
1	RLL	76765	THHN #14 RED STRANDED WIRE 500'	—	—	—
1	RLL	76766	THHN #14 WHITE STRANDED WIRE 500'	—	—	—
1	RLL	76767	THHN #14 BLACK STRANDED WIRE 500'	—	—	—
1	RLL	76768	THHN #14 BLUE STRANDED WIRE 500'(GREEN)	—	—	—



## Tray Cable

This cable consists of four bare copper insulated conductors cabled with a mylar wrap and an oil and sunlight resistant overall jacket.

- 14 gauge
- UL listed



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	RLL	76707	604105008 14-4 STR COMPACT 50' BLK	—	—	—
1	RLL	76713	604100408 14-4 STR COMPACT 250' BLK	—	—	—



## Barostat II Cable

- Solid bare copper, PVC insulation, and PVC jacket.
- Type CL2
- 18 Gauge
- UL listed



**To be Sold in Full Coils Only**

**Per Roll**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	RLL	76700	18-2 CL-2 CABLE 500'	—	—	—
1	RLL	76701	18-3 CL-2 CABLE 500'	—	—	—
1	RLL	76702	18-4 CL-2 CABLE 250'	—	—	—
1	RLL	76703	18-5 CL-2 CABLE 250'	—	—	—
1	RLL	76704	18-6 CL-2 CABLE 250'	—	—	—
1	RLL	76705	18-8 CL-2 CABLE 250'	—	—	—
1	RLL	76706	18-10 CL-2 CABLE 250'	—	—	—





## Strapping Hanger Iron



### 710-A1650

- Galvanized vent strapping, hanger iron, plumber's tape, pipe hanger tape, and many other uses. 1/4" centers for bolts or nails.

### 710-P100

- Plastic hanger strap is flexible and non-conductive. 3/4" wide x .050 thick. Load tested to 120 lbs. in handy dispenser box.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	77058	710-A1650 3/4INX50FT COIL PIPE STRAP	—	—
20	EA	77059	710-P100 3/4INX100FT PLASTIC HGR STRAP	—	—



## Wheatland EMT Conduit

- Electrical Metal Tubing



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-99	PC-2 100-499	PC-3 500
100	FT	76850	1/2IN X 10FT EMT CONDUIT	—	—	—
100	FT	76851	3/4IN X 10FT EMT CONDUIT	—	—	—

## Thomas&Betts Pipe Straps



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 5 CTNS
100	EA	76938	TS-101 / L-650 1/2 EMT STRAP	—	—	—
50	EA	76939	TS102 3/4 EMT STRAP	—	—	—
50	EA	76941	TS103 1 EMT STRAP	—	—	—
25	EA	76942	TS104 1-1/4 EMT STRAP	—	—	—
50	EA	77057	TS105 (16-405) 1 1/2IN EMT STRAP	—	—	—

## Fish Tape

60' x 1/8" x .060" Tape, Reel, and Puller combined makes fishing easier and faster.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	EA	77010	14-250 FISH TAPE	—

## Thomas&Betts Insulated Plastic Staples



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	BAG	76791	17-214 INSULATED PLASTIC STAPLES	—

**Thomas&Betts Electrical Fittings**



85364, 85366



HA201



HL601, HL602



NC-301



TC211SC, TC212SC



TC221SC, TC222SC



TC911SC



TK221SC, TK222SC



TK211SC, TK212SC



TX210



XC270



XC-290

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 5 CTNS
4	PKG	76932	85364 (4PK) WA121 (L298-21) 3/4X1/2 REDUCING WASHER	—	—	—
4	PKG	76943	85366 (L298-32) 1X3/4 REDUCING WASHER	—	—	—
100	EA	76961	HA201 1/2 CONDUIT NIPPLE	—	—	—
10	EA	76930	HL 601 / LG141-1 1/2 90 DEG CORNER EL	—	—	—
5	EA	76931	HL 602 / LG141-2 3/4 90 DEG CORNER EL	—	—	—
200	EA	76980	LN201 1/2 NUT	—	—	—
100	EA	76927	NC-301 / L-51 3/8 TAKEALL CONN	—	—	—
50	EA	76933	TC211SC 1/2 EMT COMP CONNECTOR	—	—	—
25	EA	76934	TC212SC 3/4 EMT COMP CONNECTOR	—	—	—
50	EA	76946	TC221SC 1/2 STR EMT CONN	—	—	—
25	EA	76947	TC222SC 3/4 STR EMT CONN	—	—	—
20	EA	76944	TC911SC 1/2" 90 DEG EMT ANG EL	—	—	—
50	EA	76936	TK211SC 1/2 EMT COMP CPLG	—	—	—
25	EA	76937	TK212SC 3/4 EMT COMP CPLG	—	—	—
50	EA	76955	TK221SC 1/2 STR EMT CPLG	—	—	—
25	EA	76956	TK222SC 3/4 STR EMT CPLG	—	—	—
50	EA	76935	TX210 1/2 EMT 3/8 GRNFLD CPLG	—	—	—
25	EA	76928	XC 270 1/2" ZINC SQUEEZE CONNECTOR	—	—	—
50	EA	76926	XC290 3/8 90 DEG ANG CONN	—	—	—
100	EA	76929	XC-891 1/2IN 90 DEG GREENFIELD CONN	—	—	—

**Thomas & Betts Electrical Boxes**



58351 and 58361



58-C-1



52151-S



52C1



54151



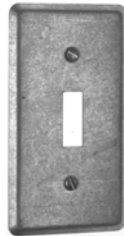
8615



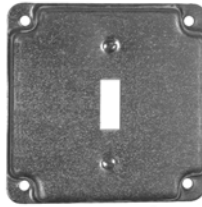
58-C-7



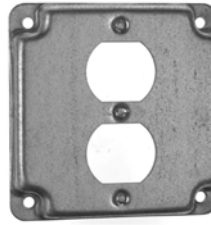
8600 and 8601



58-C-30



RS-9



RS-12



RS-2

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 5 CTNS
50	EA	76874	52151 1/2-3/4 KO 4IN SQUARE BOX	—	—	—
50	EA	76876	53151-1/2 4 SQ EXT RING 1/2 KO	—	—	—
50	EA	76877	52C1 4 SQ BLANK COVER	—	—	—
10	EA	76889	620-704 15 AMP 125V BROWN ELEC DUPLEX RECEPT	—	—	—
50	EA	76890	54151-1/2 4 OCT BOX 1/2 KO	—	—	—
100	EA	76891	54C1 4 OCT BLANK COVER	—	—	—
50	EA	76892	58371-1/2 HANDY BOX 2-3/8" DEEP	—	—	—
50	EA	76893	58361-3/4 2X4 HANDY BOX 3/4 KO	—	—	—
50	EA	76894	58351-1/2 2X4 HANDY BOX 1/2 KO	—	—	—
25	EA	76895	58-C-1 2X4 BLANK H/B COVER	—	—	—
10	EA	76899	84797 / 8615 GRD DUP RECEPT IVORY	—	—	—
100	EA	76900	58-C-7 DUPLEX RECEPT COVER	—	—	—
50	EA	76901	RS-9 SING TOG SW COVER	—	—	—
50	EA	76902	RS-12 4 SQ DUP RECEPT COVER	—	—	—
10	EA	76904	84712 / 8600 TOGGLE SW BROWN	—	—	—
100	EA	76905	58-C-30 TOGGLE SW COVER	—	—	—
10	EA	76907	84798 / 8601 TOGGLE SW IVORY	—	—	—
50	EA	76908	RS-2 1-TOG/1-DUP RECP COVER	—	—	—
1	EA	76909	84761 / 13908 SPDT TOGGLE SWITCH	—	—	—

**Spray Paint**

Plasti-kote® industrial all purpose enamel is abrasion and corrosion resistant. This spray enamel features an adjustable fan spray valve. Fights rust and will not fade. One can covers 25 to 28 sq. ft. Can be used to identify refrigerant in cylinders.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	46301	78977 RED SPRAY PAINT	—	—
12	EA	46302	78979 GREEN SPRAY PAINT	—	—
12	EA	46303	78981 WHITE SPRAY PAINT	—	—
12	EA	46305	78984 BLACK (FLAT) SPRAY PAINT	—	—
12	EA	46307	78987 GRAY (DK) SPRAY PAINT	—	—

## MARS Markers



Ready-to-use markers that will write on any surface. Dry instantly and are waterproof.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	46260	95500 #25 DURA INK BLACK PEN	—

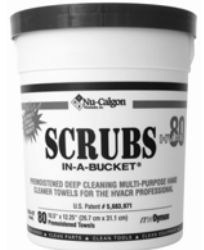
## MARS Paint Markers



- Marks on all surfaces including metal, wood, glass, plastic, rubber, cardboard and paper.
- Oil based paint it quick drying with a glossy finish.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	46261	95481 V.ACTION PAINT MARKER-RED	—
12	EA	46262	95480 V.ACTION PAINT MARKER-BLACK	—
12	EA	46263	95485 V.ACTION PAINT MARKER-YELLOW	—
12	EA	46264	95486 V.ACTION PAINT MARKER-WHITE	—

## Nu-Calgon Scrubs-In-A-Bucket



- Premoistened towels infused with pumice hand cleaners.
- Multipurpose and disposable.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	48694	4366-87 80 COUNT SCRUBS-IN-A-BUCKET	—

## Nu-Calgon Great Wipes Hand Towels



- Industrial strength waterless hand towels
- One side for everyday messes, one side for heavy duty grime
- Fresh citrus scent

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	90318	4185-75 75 COUNT GREAT WIPES WATERLESS HAND TOWELS	—	—



## WypAll Shop Towels

- Durable for demanding jobs.
- Strong even when wet.
- 4-ply tissue wiper traps dirt and absorbs liquids quickly.
- Made with 100% recycled paper.
- 9-3/4" x 16-3/4" in pop-up box.



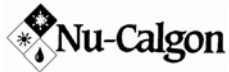
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	BOX	40108	79105 / 19099 TERI WIPES 125/BOX	—



## Hand Cleaner With Lanolin and Other Emollients



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	48691	93204 16OZ MANS HANDS HAND CLEANER	—	—



## Nu-Kill Wasp and Hornet Aerosol Spray

Nu-Kill instantly kills wasps, hornets, and yellow jackets. Up to a 20 foot jet spray.  
Nu-Kill is also safe around and in electrical equipment. No CFCs.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	95973	4292-75 13.5 OZ NU-KILL II AEROSOL WASP & HORNET KILLER	—	—

---

# ***Group 5 Chemicals and Water Treatment***

Group 5 Chemicals and Water Treatment

Cleaners.....	5 - 1
Leak Detectors.....	5 - 10
System Sealants.....	5 - 11
Moisture Barriers and Lubricants.....	5 - 12
Anti-Freeze.....	5 - 14

## Nu-Calgon Aerosol Cleaners



4081-75



4082-03



4083-75



4132-20



4166-75



4171-75



4290-75



4291-18

### CalClean

Aerosol coil cleaner for condensers and evaporators. Heavy-duty detergent for all types of equipment.

### Electrical Contact Cleaner

Lubricates and protects electrical contacts. Quickly removes grease, dust and oxidation.

### Degreasing Solvent

Leaves surfaces clean and oil-free. Fast drying, leaves no residue. Dielectric strength of 26,000 volts.

### cal-blast™ Coil Cleaner

High performance aerosol with excellent solvency and blasting spray, to powerfully separate undesirable materials from the surface.

### Evap-Fresh Coil Cleaner

Evap-Fresh is a ready-to-use, non-abrasive, one-step cleaner and disinfectant for evaporator coils in small air conditioners, commercial air handling equipment, HVAC cooling coils, and refrigeration equipment.

### Evap-Foam No Rinse

For use on condensers or evaporators. Cleans and deodorizes. Has a pleasant lemon smell.

### Nu-Blast® Condenser Coil Cleaner

A "no rinse required" condenser coil cleaner in a convenient aerosol package. Pleasant odor, non-flammable and non-conductive.

### Nu-Brite

High pressure cleaner and degreaser for small condenser coils found in restaurant and food service refrigeration, air conditioners, electrical and mechanical equipment.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	90170	4081-75 20 OZ AEROSOL CAN CALCLEAN	—	—
6	EA	90178	4082-03 11 OZ AEROSOL CAN ELECTRICAL CONTACT CLEANER	—	—
6	EA	90180	4083-75 17 OZ AEROSOL CAN DEGREASING SOLVENT EF	—	—
6	EA	90248	4132-20 AEROSOL CAL-BLAST COIL CLEANER	—	—
6	EA	95928	4166-75 18 OZ CAN AEROSOL EVAP-FRESH COIL CLEANER	—	—
6	EA	90154	4171-75 18 OZ AEROSOL CAN EVAP-FOAM NO RINSE	—	—
6	EA	90148	4290-75 18OZ AEROSOL CAN NU-BLAST CONDENSER COIL CLEANER	—	—
6	EA	95996	4291-18 18 OZ AEROSOL CAN NU-BRITE COIL CLEANER	—	—



## Aerosol Coil Cleaners



### BAC-20 Blast-A-Coil

This aerosol, non-ozone depleting coil cleaner has a high pressure liquid that blasts through grease and dirt on refrigeration condenser coils. Cleans grease, dirt, lint and other debris instantly with minimum effort and does not require rinsing.



### CK20 Coil Klean

The CK20 is designed to clean dirt, hair, grease, oil and dust from evaporator coils and to restore evaporator efficiency and operation. Foaming spray easily penetrates the fins of evaporator coils, cutting through and lifting dirt out.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	95944	BAC-20 18 OZ NO-RINSE AEROSOL COIL CLEANER SOLVENT	—	—
12	EA	90114	CK20 19 OZ COIL KLEAN ALKALINE AEROSOL CONDENSOR COIL CLEANER	—	—



## Coil Cleaners and Protectors



Acti-Brite

### Acti-Brite

Acid based cleaner effectively foams away stubborn deposits from air-cooled condensers and coils. Expanding foam pushes contamination out of condenser and is easily rinsed away with water. Eye and hand protection is required with use.

### Acti-Klean

Acti-Klean heavy duty coil cleaner is more effective than cleaning with high-pressure sprayers and steam cleaners or rinsing with water and brushing, yet it is economical to use. Acti-Klean is quite safe, non-acid, non-toxic, virtually odorless, non-flammable and bio-degradable. Rinsing after use is not required, as it simply drains away as condensate.



Acti-Klean



Alki-Foam

### Alki-Foam

An alternative method of cleaning fin and tube surfaces of air conditioning condensers. Alki-Foam, non-acid cleaner, has been developed to remove contamination from heat transfer surfaces and increase air flow for increased efficiency.

### FM-1 Foam-Max

Foam-Max is a super high-foaming, alkaline based, outdoor condenser coil cleaner designed for extra tough cleaning jobs. This cleaner creates a super thick foam when used on aluminum condenser coils that cuts through grease, grime and oil and pushes out feathers, dirt, dust, leaves and grass. This highly concentrated formula can be used in lighter dilution ratios to make an economical cleaner for standard cleaning jobs.



FM-1

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
4	EA	95938	AB1 1 GALLON ACTI-BRITE PREMIUM COIL CLEANER	—	—
4	EA	95939	AKF1 1 GALLON ALKI-FOAM PREMIUM COIL CLEANER	—	—
4	EA	95940	AK1 1 GALLON ACTI-KLEAN PREMIUM COIL CLEANER	—	—
4	EA	95942	FM1 1 GALLON FOAM MAX PREMIUM CONDENSER COIL CLEANER	—	—



## Green Select Coil Cleaners



Cal-Green

### Cal-Green

Clean the condenser unit with an all natural environmentally friendly coil cleaner. This low-foaming, non-toxic cleaner is outstanding for removing dirt and grime which hinders heat transfer. By cleaning the fins with Cal-Green you restore the unit's efficiency while being environmentally responsible.



Evap-Green

### Evap-Green

Evap-Green's outstanding cleaning ability will quickly remove dust, dirt, and debris that is typically found on evaporator coils. By using Evap-Green, an all natural cleaner, the coil is being cleaned with the most environmentally friendly product available.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
4	EA	90244	4190-08 1 GAL CAL-GREEN GREEN SELECT COIL CLEANER	—	—
4	EA	90245	4191-08 1 GAL EVAP-GREEN GREEN SELECT COIL CLEANER	—	—



## Nu-Calgon Coil Cleaners



Cal-Brite

CalClean

Evap-Fresh

Evap Pow'r

Foam-Brite

Nu-Brite

Tri-Pow'r

TriClean 2X

### Nu-Calgon Cal-Brite®

Is a low-pH cleaner for cleaning evaporator coils, air-cooled condensers and other finned cooling and heating coils. It is based upon glycolic acid and other ingredients, including DuPont's Surfactant Merpol®. Safe for use indoors as well as outdoors.

### Nu-Calgon CalClean®

A heavy-duty liquid alkaline detergent for cleaning evaporator coils, air cooled condenser coils, metal filters, fan blades. Biodegradable.

### Nu-Calgon Evap-Fresh

Evap-Fresh is a ready-to-use, non-abrasive, one-step cleaner and disinfectant for evaporator coils in small air conditioners, commercial air handling equipment, HVAC cooling coils and refrigeration equipment.

### Nu-Calgon Evap Pow'r®

"No Rinse" product formulated specifically for indoor cleaning of evaporator coils. It is metal safe. Cleans even the most stubborn soils and deposits. Biodegradable.

### Nu-Calgon Foam-Brite®

This coil cleaner provides the ultimate in foaming, brightening and cleaning; it can be used to replace the more dangerous HF acid based products for condenser coil cleaning. Cleans and brightens, with an unsurpassed level of foaming.

### Nu-Calgon Nu-Brite®

Is the most effective coil cleaner available today. It is an equally effective yet safer alternative to acids. Alkaline based. Biodegradable.

### Nu-Calgon Tri-Pow'r

Tri-Pow'r HD is an alkaline cleaner for cleaning air-cooled condensers, evaporator coils, permanent filters, fan blades, motors and other general cleaning.

### TriClean 2X

Metal safe, biodegradable chemistry. One bottle cleans up to three 5 ton coils. Easy to use; simply connect to hose, clean and rinse.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
4	EA	95961	4133-08 1 GAL CAL-BRITE COIL CLEANER	—	—
4	EA	90145	4135-08 1 GAL CALCLEAN COIL CLEANER	—	—
4	EA	95929	4166-08 1 GAL EVAP-FRESH COIL CLEANER	—	—
4	EA	95965	4168-08 1 GAL EVAP POW'R-C COIL CLEANER	—	—
4	EA	90169	4178-08 1 GAL FOAM BRITE COIL CLEANER	—	—
4	EA	90153	4291-05 2 1/2 GAL NU-BRITE COIL CLEANER	—	—
4	EA	90149	4291-08 1 GAL NU-BRITE COIL CLEANER	—	—
4	EA	90142	4371-88 1 GAL TRI-POW'R HD ALKALINE COIL CLEANER	—	—
6	EA	95957	4372-24 1 QT TRICLEAN 2X COIL CLEANER	—	—

## **RECTORSEAL** Renewz Coil Cleaner

Non-acid foaming cleaner and brightener for condenser coils.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	50729	82644 1 GALLON RENEWZ FOAMING NON-ACID COIL CLEANER	—

# Nu-Calgon Ice Machine Filters and Food Grade Cleaning Products



CTL    Nu-Plus    NP48S    Micro-Plus    IMS-II Cleaner    Liquid Ice    Nickel Safe Cleaner    Food-Grade Silicone

### CTL Cartridge

A 20" cartridge that fits inside existing Manitowoc systems.

### Nu-Plus Water Filter Cartridges

Pre-coat submicron filtration reduces particles as small as 1/2 micron along with chlorine and other offensive contaminants. Plus the feed of 6R Micromet® inhibits scale build-up caused by dissolved minerals.

### NP48S Sediment Cartridge

The NP Series Sediment Cartridges are composed of polypropylene that is manufactured by patented blown-microfiber technology to meet the market requirements for a pure polypropylene-depth pre-filter with exceptional dirt-holding capability.

### Micro-Plus Treatment Systems

The complete treatment program for commercial ice makers, coffee urns and brewers, beverage makers, and other water-using equipment such as humidifiers, steamers, and residential refrigerator ice makers.

### IMS-II Ice Machine Cleaner

Eliminate lime scale formation. Remove silt, sediment and other suspended matter. Remove chlorine and other objectionable tastes and odors. Complete treatment for up to six months.

### Liquid Ice Machine Cleaner

For removing scale deposits from ice machines and coffee urns. Made from food-grade phosphoric acid. Fast acting and safe to use.

### Nickel Safe Ice Machine Cleaner

Cleaner is a specially formulated for removing scale deposits from ice machines having nickel-plated or tin-plated evaporators.

### Food-Grade Silicone

Sprays a perfect non-stick surface on ice machine surfaces, vending machines, coin slots, hot plates, slicing machines, and other food processing and packaging equipment. Contains ingredients approved by the FDA for food contact.

### CTL Cartridge

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	95991	4610-26 C0070 CTL SERIES PRIMARY FILTER CARTRIDGE	—	—

### Nu-Plus Water Filter Cartridges

6	EA	96001	4621-10 NU-I2000 NU-PLUS WATER FILTER CARTRIDGE	—	—
6	EA	96002	4621-11 NU-I4000 NU-PLUS WATER FILTER CARTRIDGE	—	—
6	EA	96184	4621-12 BH ICE/COFFEE CARTRIDGE	—	—
6	EA	96185	4621-20 NU-MC CARTRIDGE	—	—
6	EA	96186	4621-30 7CB5-5 CARTRIDGE	—	—
6	EA	96187	4622-10 NU-PLUS CU-S CARTRIDGE	—	—
1	EA	96188	4621-01 QC71 SINGLE HEAD	—	—
1	EA	96189	4621-02 QC71 TWIN PARALLEL HEAD	—	—
1	EA	96190	4621-07 QL3B SINGLE HEAD	—	—
1	EA	96191	4621-42 EC-10 PREFILTER	—	—
1	EA	96192	4621-44 EC-20 20IN PREFILTER HOUSING W/CARTRIDGE	—	—
1	EA	96193	4621-45 PREFILTER WING BRACKET	—	—
40	EA	96194	4621-41 EC-110 10IN PREFILTER CARTRIDGE	—	—
20	EA	96195	4621-43 EC-210 20IN PREFILTER CARTRIDGE	—	—
6	EA	96197	4621-14 1MF10-(FOR 10IN HOUSING) SCALE BLOCKER	—	—

### Sediment Filter Cartridge

6	EA	95995	4712-87 NP48S 5 MICRON SEDIMENT CARTRIDGE	—	—
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**Ice Machine Cleaners**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
4	EA	95966	4207-08 1 GAL LIQUID ICE MACHINE CLEANER	—	—
12	EA	95967	4207-47 8 FLUID OZ -13.2 NET WT LIQUID ICE MACHINE CLEANER	—	—
12	EA	95989	4211-34 16 FLUID OZ IMS-11 ICE MACHINE SANITIZING CONCENTRATE	—	—
4	EA	90143	4287-08 1 GAL NICKEL SAFE ICE MACHINE CLEANER	—	—
12	EA	90147	4287-34 16 FLUID OZ NICKEL SAFE ICE MACHINE CLEANER	—	—
6	EA	95983	4612-W3 MICRO PLUS 4 (25 GAL/DAY) ICE MACHINE FILTRATION TREATMENT	—	—
6	EA	95984	4613-Y8 MICRO PLUS 8 (50 GAL/DAY) ICE MACHINE FILTRATION TREATMENT	—	—
6	EA	95985	4614-Y8 MICRO PLUS 16(100 GAL/DAY) ICE MACHINE FILTRATION TREATMENT	—	—
6	EA	95986	4615-W3 MICRO +2 (12-1/2 GAL/DAY) ICE MACHINE FILTRATION TREATMENT	—	—

**Food Grade Silicone**

6	EA	90172	4084-03 11 OZ AEROSOL CAN FOOD GRADE SILICONE	—	—
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**Metal Safe Ice Machine Cleaners**

Removes the normal lime scale formulations which develop in ice machines. Safe to use on nickel and tin plated evaporators.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
4	EA	95948	H421 1 GALLON METAL SAFE ICE MACHINE CLEANER/SCALE REMOVER	—	—

**Nu-Calgon Scale Removers**



**Liquid Scale Dissolver**

A hydrochloric (muriatic) acid that is formulated to remove calcium scales from cooling towers and other water cooled equipment. It contains low-foaming corrosion inhibitors and a built-in pH color indicator. pH test paper is also included.



**Calci-Solve**

An amazing RD-188 forms a protective coating on pipes, drains, and equipment while acid action does the work. Quickly dissolves the heaviest rust and mineral scale deposits in cooling towers, air conditioning, heating, and all types of heat exchange equipment.

**1 Gallon**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
4	EA	95454	4134-08 1 GAL CALCI-SOLVE SCALE REMOVER	—	—
4	EA	95969	4330-08 1 GAL LIQUID SCALE DISSOLVER	—	—

**5 Gallon**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	95968	4330-05 5 GAL LIQUID SCALE DISSOLVER	—

**Nu-Calgon Humidi-Treat Humidifier Treatment**

Humidi-Treat is designed for humidifiers using up to 25 gallons per day, and will inhibit scale for one season. Install Humidi-Treat on the water line that supplies water directly to the humidifier.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	90168	4190-02 HUMIDI-TREAT	—	—

## Nu-Calgon Degreasing Solvent



This environmentally friendly degreasing solvent is ozone-safe. It is a volatile solvent that provides effective degreasing and cleaning as well as controlled drying with absolutely no residue. It has a dielectric strength in excess of 26,000 volts. It is suitable for cleaning electrical and electronic equipment, parts, and motors.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	90195	4162-07 1 GAL DEGREASING SOLVENT EF	—	—

## Nu-Calgon Green Clean



A broad spectrum cleaner that is used in manufacturing plants for heavy degreasing of parts or cleaning shop floors. The food service industry uses Green Clean for cleaning walk-in and reach-in refrigerators and freezers, grease filters, tile floors, stainless steel surfaces and counter tops. Green Clean can also be used to clean motors, blowers, pumps, and air conditioners.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	81304	4186-24 1 QT (32OZ) SPRAY BOTTLE GREEN CLEAN COIL CLEANER	—	—

## Nu-Calgon Duct and EAC Cleaners



### Bio-Fresh® cd

Bio-Fresh cd is a ready-to-use bacteriostat, fungistat and deodorizer based upon chlorine dioxide technology. It is recommended for control of bacteria, mold, mildew, fungi and yeast in IAQ applications. Its EPA registration includes application in HVACR ventilating equipment, including coils, condensate pans, filters and duct-work.



### Special HD CalClean

An extra-strong blend of surface active agents, alkaline cleaner, degreasers, and corrosion inhibitors specially formulated to remove tobacco tars and other stubborn deposits from electronic air filters as well as condensers and coils. Biodegradable.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	95976	4126-34 1 QT SPRAY BOTTLE BIO-FRESH CD	—	—
4	EA	95960	4143-08 1 GAL CALCLEAN SPECIAL HD COIL CLEANER	—	—

## Nu-Calgon Winter Treat



Winter Treat will buffer and balance water conditions, preventing both scale and corrosion while keeping the boiler free of sludge. In addition to all its preventative abilities, Winter Treat also cleans boilers that are already fouled with deposits and corrosion.

- Emulsifies and cleans away rust, corrosion deposits and sludge
- Inhibits system corrosion, foaming and surging
- Inhibits lime scale
- Buffers and balances water conditions

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
4	EA	90191	4390-08 1 GAL WINTER TREAT	—	—
12	EA	90193	4390-32 1 QT WINTER TREAT	—	—



## Boiler Liquid

- Seals and repairs cracks and leaks in steam and hot water systems.
- No odors, priming, or foaming.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	50832	30115 1 QT BOILER LIQUID STOP LEAK	—	—



## Scout Steam Boiler Cleaner

Scout™ is a non-toxic, odorless steam boiler cleaner that contains fast-acting Trisodium Phosphate (TSP). It stops priming and surging in minutes. Removes rust, scale, oil, foam and impurities without draining or flushing system. Cleans pressure vessels, steam kettles, heat exchangers, steam generators and tanks.

Safe to use on food service, process equipment and other sensitive, critical applications. When used on a regular basis, Scout provides clean, dry steam along with improved boiler efficiency, fuel economy and heat transfer. Will not harm rubber or plastic components. Contains no petroleum distillates.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	50699	35100 113 GRAM SCOUT ODORLESS STEAM BOILER CLEANER	—	—



## Pro-Flush™ HVAC Flushing Solvent



A flushing solvent for A/C and refrigeration systems formulated for R-410A retrofits, refrigerant conversions and compressor burnouts. Compatible with all refrigerants and compressor oils. All solvents in Pro-Flush™ are non-VOC and conform to EPA SNAP standards; low toxicity, non-flammable, residue-free.

Pro-Flush™ is available as a kit or in a 16 oz. solvent refill. The kit includes: 16 oz. Pro-Flush™ solvent, refillable Pro-Flush™ injector tool pressure tank, pressure relief valve for added safety, large rubber adapter that flushes up to 1-1/4" line sets and service hose.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	KIT	98900	PF-KIT PRO FLUSH KIT	—
6	EA	98901	PF-16 16OZ SOLVENT REFILL	—



## Rx11 Flush

### Air Conditioning and Refrigeration System Flush



4300-09



4300-10



4300-15



4300-30



4300-50



4300-89

An ozone-safe solvent engineered specifically for flushing refrigeration and air conditioning systems. Rx11 is strong enough to rinse away particulate, sludge, carbon residues, acids, oils, and water. Prevents time-consuming repeat visits.

**4300-08 Flush Kit Includes:**

- 4300-09 Rx11 Flush
- 4300-51 Rx11 Flush Gun
- 4300-52 Rx11 Flush Hose
- 4300-99 Injection Tool

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	90753	4300-08 RX11 FLUSH STARTER KIT	—
6	EA	95979	4300-09 RX11 11LB CANISTER (3-4TON) AC/R SYSTEM FLUSH	—
1	PKG	90186	4300-10 RX11 2+1 DISPLAY PACK AC/R SYSTEM FLUSH	—
1	EA	90192	4300-15 RX11 13 LB CYLINDER FLUSH AC/R SYSTEM	—
6	EA	96007	4300-30 RX11 19.5 OZ FLUSH LIQUID CAN	—
1	EA	96008	4300-38 RX11 FLUSH STARTER KIT (TANK,GUN & HOSE)	—
1	EA	95927	4300-50 RX11 FLUSH LINE-SET INJECTION TOOL	—
1	EA	90196	4300-89 RX-11 FLUSH INJECTION VALVE	—

# Nu-Calgon Drain Pan Treatment



Gel Tabs



Pan-Treat Tablets



Pan Pads



PH Treat

### Gel Tabs

Gel Tabs protects drain pans against clogs and eliminates foul odors. The gel formation locks the tab into place; last up to 3 months.

### Pan-Treat Tablets

Pan-Treat is safe, non-corrosive, non-toxic, and biodegradable. It is completely soluble in water and it does not form deposits in the drain pan.

### Pan Pads

Fits most pan configurations and doesn't float. Combat a broad spectrum of bacteria including Legionella. 9 month service life.

### PH Treat

The PH Treat filter contains a specialized media that raises the pH to near neutral.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	90246	4185-03 3TON (12 TABLETS TUBE) GEL TABS DRAIN PAN TREATMENT	—	—
6	EA	90247	4185-05 5 TON (6 TABLET TUBE) GEL TABS DRAIN PAN TREATMENT	—	—
24	EA	95964	4295-34 3/4 OZ 5 TON CAPACITY PAN PADS DRAIN PAN TREATMENT	—	—
24	EA	95978	4295-36 5 TON PAN PADS DRAIN PAN TREATMENT	—	—
12	EA	95975	4296-60 200 COUNT PAN TREAT CONDENSATE TABLETS	—	—
6	EA	90167	4720-06 PH-TREAT	—	—



# Flow Plus™ Condensate Pan Treatment

Flow Plus™ incorporates the latest water treatment technology designed to keep dust and other environmental debris dispersed and suspended, eliminating plugged condensate lines which result in drain overflow. Flow Plus is a completely-soluble, moisture-activated condensate pan treatment, that leaves no dispenser, bag or residue to be removed.

### Features

- Condensate activated
- Time released
- No residue or waste
- Combats offensive odors
- Stays in place
- Safe



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	98910	FLOW-PLUS-25 COND PAN TREATMENT 25 TAB/JAR	—	—

**Nu-Calgon Leak Detectors**  
for Gases, Refrigerant, and Heat Exchangers



**Clear Gas Leak Detector**

A high viscosity liquid. Freeze point of below 0° F.

**Cal Blue**

High viscosity to enhance contact time. Non-corrosive, oxygen safe, and freeze-protected to 5° F.

**Cal Blue Plus**

High viscosity formula enables it to remain in contact with the applied surface for an extended period of time allowing smallest of leaks to be found. It is also non-corrosive, oxygen safe, and freeze-protected to 5°F. Does not affect UV lights.

**Cal Blue Low Temperature**

High viscosity, non corrosive, and oxygen safe. Freeze protected to -20° F.

**Flourescent Gas Leak Detector**

Suitable for high and low temperature applications. Suitable for most refrigerants, natural gas, and oxygen systems.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	90187	4180-53 6 OZ WITH DAUBER GAS LEAK DETECTOR (CLEAR)	—	—
4	EA	90177	4182-08 GAL CAL BLUE GAS LEAK DETECTOR	—	—
12	EA	90176	4182-24 1 QT SPRAY BOTTLE CAL CAL BLUE GAS LEAK DETECTOR	—	—
24	EA	90188	4182-53 6 FLUID OZ WITH DAUBER CAL BLUE CAL BLUE GAS LEAK DETECTOR	—	—
6	EA	95977	4183-24 1QT SPRAY BOTTLE CAL-BLUE LT GAS LEAK DETECTOR LOW TEMP	—	—
12	EA	90146	4184-24 1 QT SPRAY BOTTLE FLOURESCENT GAS LEAK DETECTOR	—	—
12	EA	90194	4184-53 8OZ BOTTLE WITH DAUBER FLUORESCENT GAS LEAK	—	—

**REFRIGERATION TECHNOLOGIES Big Blu Leak Detectors**



**Big Blu**

A strong and persistent film forming liquid that excels in the field identification of gas leaks. Capable of detecting microgas leakage down to 0.65 ounces per year.

**Super Blu**

Maintains a uniform viscosity over the temperature range of -30 to 200° F. Remains flowable on the coldest of days while remaining bulky and resistant to evaporation on hot discharge lines.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	95483	RT100G GAL +35 TO 177 F BIG BLU	—
12	EA	95484	RT100S QUART +35 TO 177F BIG BLU	—
12	EA	95485	RT150S QT (-.30 TO 202 F) SUPER BIG BLU LOW TEMP	—





## Sure Chek Leak Detector

All temperature formula: -55° to 220° F. Ultra-sensitive, long-lasting bubbles. Fluorescent for improved visibility. Safe for all metals, plastic, rubber, etc. Non-corrosive, non-toxic formula.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	50820	95466 1 PT SURE CHECK LEAK DETECTOR	—	—



## Flash Cool Dual Leak Detection Kit



### Flash High Resolution Universal UV Dye

- Compatible with all refrigerants and oils including R-410A
- Flashes into refrigerant as a mist
- Highly stable—will not crystallize with moisture
- No dye injector needed
- **Cool Dual Cordless Worklight**
- Functions as both flashlight and UV detection light
- 22 UV LEDs create one powerful UV light
- 21 white LEDs combine for a powerful white light

### Kit Includes:

- 3 cans of flash dye
- Cool Dual Worklight
- Reusable hose
- Durable carrying case

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	93019	98082KIT FLASH DYE DUAL PRO LEAK DETECTION KIT	—
12	EA	93020	980 230BTU TO 5T REPLACEMENT ULTRA VIOLET DYE	—
1	EA	93021	20122 BLUE UNIVERSAL CAN TAPPER CHARGING HOSE	—



## EasySeal Refrigerant Leak Sealant



4050-01



4050-02



4050-06



4051-99

A/C EasySeal prevents refrigerant leaks and seals existing leaks in air conditioning and refrigeration systems

- 4050-01 treats systems up to 1-1/2 tons
- 4050-02 contains two 4050-06 EasySeal cans and 1 reusable injection hose
- 4050-06 treats systems from 1-1/2 tons to 5 tons
- 4051-99 is a re-usable A/C piercing valve and hose

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	90748	4050-01 1.25 OZ PRESSURIZED CAN A/C EASYSEAL SS	—	—
1	EA	90749	4050-02 2+1 DISPLAY PACK A/C EASYSEAL	—	—
6	EA	90750	4050-06 3 OZ PRESSURIZED CAN A/C EASYSEAL	—	—
1	EA	90752	4051-99 A/C PIERCING VALVE & HOSE	—	—



## Super Seal HVACR



### 944 Kit

- Repairs cooling, chilling, and refrigeration leaks
- One-time, throwaway kit
- For most residential systems 1-1/2 ton to 5 ton
- 30 oz. of oil required in sump
- Compatible with all refrigerants and oils
- Injection hose included



### 946 Kit

- Permanently seals leaks in condensers, evaporators, accumulators, compressors, gaskets, o-rings, and metal and rubber hoses.
- For all mobile air conditioning systems R-134a and R-12/R-22
- Easily installed in minutes
- Professional strength formulation
- Continues to circulate in the A/C system to prevent future leaks

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	93016	944KIT 1 1/2T UP TO 5T SUPER SEAL	—
12	EA	93018	946KIT AUTOMOTIVE ONLY SUPER SEAL PRO/PREMIUM	—



## Dry R™ Moisture Eliminator



Dry R™ prevents sludge and corrosion breakdowns in AC/R systems and also increases overall refrigeration efficiency allowing for greater liquid line drier capacity. Dry R™ eliminates water in commercial, industrial and residential AC/R systems by changing its chemical composition rather than masking or converting it to oil-like substances.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	93017	973KIT FOR SYSTEMS 230BTUH & UP DRY R 1	—



## Super Seal Total™ Maintenance Kit

Super Seal Total™ is a maintenance kit that contains:

- Super Seal
- Dry R
- UV Tracer Dye
- Hose



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	93022	972KIT SYSTEMS 1.5T UP 5T SUPER SEAL TOTAL W/DRY R	—

**Nu-Calgon EasyDry Moisture Eliminator**



4051-06



4051-99

- A/C EasyDry eliminates moisture in refrigeration and air conditioning systems
- Treats up to 5 ton systems
- Compatible with all oils and refrigerants
- Prevents acid from forming

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	90751	4051-06 3 OZ PRESSURIZED CAN A/C EASYDRY	—	—
1	EA	90752	4051-99 A/C PIERCING VALVE & HOSE	—	—

**Nu-Calgon Pipe-Dri**

Pipe-Dri is an aerosol insulation which provides a moisture barrier to stop sweating and dripping on refrigeration lines, air conditioning lines, and other cold surfaces. Quickly adheres and dries to a hard water proof coating. Pipe-Dri's spray pattern permits spraying of odd shaped fittings and makes it possible to insulate hard to reach areas.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	90171	4297-75 18 OZ AEROSOL CAN PIPE DRI	—	—

**Nu-Calgon Break-N-Lube**

This advanced technology 4-in-1 product is made with CERFLON® for high performance in a non drying penetrating lubricant. It has the ability to penetrate, lubricate, displace moisture, and provide superior resistance to corrosion.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	90179	4128-03 12 OZ AEROSOL CAN AEROSOL BREAK-N-LUBE	—	—

**HARDCAST DECALVANIZER**

Specially formulated light weight oil and penetrant that releases galvanizing build-up while providing a micro-thin film of lubrication for continued protection and improved quality of sheet metal machinery parts.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	42083	310006 DE GALVANIZER 11OZ. CAN	—



## Rust Breaker



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	96000	CR-1 RUST BREAKER 4OZ	—



## Cryo-tek-100 Anti-Freeze

Cryo-tek-100 is a 70% propylene glycol with corrosion inhibitor, pre-mixed ready to use formulation. Provides freeze protection to -60° F, a minimum flow to -70° F, and burst protection to -100° F. Cryo-tek-100 can be diluted with water for less severe conditions.

The virgin propylene glycol used in Cryo-tek is General Recognized As Safe (GRAS) for incidental contact with food. For use in hydronic closed loop heating and cooling systems, solar heating systems, and general plumbing systems that require freeze protection.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	95953	35281 1 GAL CRYO-TEK -100 PROPYLENE GLYCOL	—	—
1	EA	95954	35284 5 GAL CRYO-TEK -100 PROPYLENE GLYCOL	—	—



## Cryo-tek-100/AL

For use in boilers with aluminum heat exchangers only. 70% virgin, propylene glycol with triple protection inhibitor package premixed with water in a ready-to-use formulation. Undiluted, provides freeze protection to -60° F, minimum flow to -70° F, and burst protection to -100° F. Dilute for less severe conditions.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	95933	35283 5 GAL CRYO-TEK-100AL FOR ALUMINUM HEAT EXCHANGERS	—



## Hydrometer

A quick means to determine the degree of freeze protection when using pipe saver anti-freeze.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	95955	PSH HYDROMETER	—

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## **Group 6 Refrigeration**

### Group 6 Refrigeration

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# Honeywell Refrigerant

**Genetron® Refrigerants**

- Deposit required on 125 lb. cylinders.
- Price of R-23 includes CFC excise tax.

**Due to continual fluctuations in the refrigerant market, prices available upon request.**

**Air Conditioning (Commercial and Residential)**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
40	EA	90048	R-22 30 LB REFRIGERANT
24	EA	90052	R-22 50 LB REFRIGERANT
8	EA	90061	R-22 125 LB REFRIGERANT
1	EA	90062	R-22 125 LB CYL DEPOSIT
40	EA	90038	R-124 30 LB REFRIGERANT
40	EA	90059	R-407C 25 LB REFRIGERANT
8	EA	90089	R-407C 115 LB REFRIGERANT
0	EA	90088	R-407C 115 LB CYL DEPOSIT
40	EA	90047	R-410A 25 LB REFRIGERANT

**Commercial Refrigeration Low and Medium Temperature Interim HCFC-Based Replacements**

1	EA	90060	HP-81 (R402B) 13 LB REFRIGERANT
40	EA	90040	R-402A (HP80) 27 LB REFRIGERANT
1	EA	90064	R-402A (HP80) 110 LB REFRIGERANT
1	EA	90065	R-402A (HP80) 110 LB CYL DEPOSIT
40	EA	90023	R-408A (FX10) 24 LB REFRIGERANT
8	EA	90024	R-408A (FX10) 100 LB REFRIGERANT
1	EA	90025	R-408A 100 LB CYL DEPOSIT

**Low and Medium Temperature Long Term HFC-Based Replacements**

1	EA	90085	AZ-50(R507A) 100 LB CYL.DEPOSIT
40	EA	90044	R-404A 24 LB REFRIGERANT
8	EA	90045	R-404A 100 LB REFRIGERANT
1	EA	90046	R-404A 100 LB CYL DEPOSIT
40	EA	90083	R-507A (AZ50) 25 LB REFRIGERANT
8	EA	90084	R-507A (AZ50) 100 LB REFRIGERANT

**Medium Temperature Interim HCFC-Based Replacements**

40	EA	90070	MP-66 (R401B) 30 LB REFRIGERANT
40	EA	90039	R-401A (MP39) 30 LB REFRIGERANT
40	EA	90056	R-409A (FX56) 30 LB REFRIGERANT

**Medium Temperature Long Term HFC-Based Replacements**

40	EA	90075	R-134A 30 LB REFRIGERANT
8	EA	90077	R-134A 125 LB REFRIGERANT
1	EA	90078	R-134A 125 LB CYL DEPOSIT
1	EA	90081	R-422D 25 LB REFRIGERANT

**Very Low Temperature Long Term Replacements**

1	EA	90014	R-23 70 LB REFRIGERANT
1	EA	90015	R-23 70 LB CYL DEPOSIT
1	EA	90006	SUVA 95(R508B) 10 LB REFRIGERANT
1	EA	90007	SUVA 95 (R508B) 10 LB CYL DEPOSIT
1	EA	90008	SUVA 95(R508B) 20 LB REFRIGERANT
1	EA	90009	SUVA 95 (R508B) 20 LB CYL DEPOSIT
1	EA	90010	SUVA 95 (R508B) 70 LB REFRIGERANT
1	EA	90011	SUVA 95 (R508B) 70 LB CYL DEPOSIT



## Refrigerant Replacements



### Hot Shot R-12 Replacement

Hot Shot, R-414B, is environmentally, economically and technically superior to any other refrigerant on the market today. R-414B is UL Classified, has a nontoxic, nonflammable safety classification from ASHRE (A1), and is EPA/SNAP accepted.

- Fully compatible with all standard refrigerant lubricants.
- No oil changes required at any temperature application.
- Near duplication of R-12 operating characteristics.

### NU-22B R-22 Replacement

NU-22B is the most practical and natural choice for the replacement of HCFC-22. It is the only HFC based R-22 replacement that is compatible with synthetic and mineral oils (MO, AB, POE). NU-22B has also proven to be compatible with all standard equipment components and materials used in R-22 manufactured systems.

After conducting over one thousand hours of compressor wear testing, NU-22B has proven to be fully suitable for use in scroll, screw, rotary and reciprocating compressors. NU-22B is non-toxic and non-flammable.

### One Shot™ Refrigerant Replacement

One Shot replaces R-502, R-22(LT), R-507A, R-404A, R402A and B, and R-408A.

One Shot is a non-ozone depleting HFC blend that can be used to replace R-502 in low and medium temperature applications, R-22 in low temperature applications, and even in systems originally designed for R-404A and R-507A. One Shot provides adequate oil return in mineral oil based systems without any significant engineering changes.

- Compatible with MO, AB, and POE based oils.
- Zero ozone depletion potential, non toxic and nonflammable.
- Suitable for new and existing equipment.
- Can be topped off repeatedly.
- HFC leak detectors suitable for use with One Shot.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5
40	EA	90072	R-414B 25 LB HOT SHOT	—	—
1	EA	90071	NU-22B (R-422B) 25 LB REFRIGERANT	—	—
8	EA	90242	NU-22B (R-422B) 110LB REFRIGERANT	—	—
1	EA	90243	NU-22B 110LB CYL DEPOSIT	—	—
1	EA	90079	R-422C 24 LB ONE SHOT REFRIGERANT	—	—



## Liquid Charging Adapter



Liquid charging is recommended when charging blends into refrigeration and air conditioning systems, and a liquid charger adapter is necessary for safe and fast liquid charging through the low side of the system.

- 1/4" liquid charging adapter.
- Metering element reduces liquid flow to a level below capacity of compressor.
- Accepts liquid refrigerant from the cylinder and discharges into low side of the system.
- Eliminates time and effort of heating cylinders.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	54795	LC-4 LIQUID CHARGING ADAPTER	—

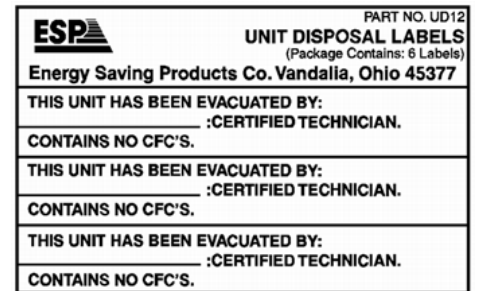
# Refrigerant Recovery Cylinders

For recovery, reclamation, transportation, recycling, and storage of refrigerant.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	90002	RECOVERY CYLINDER PROCEDURE	—
1	EA	90099	125# DOT RECOVERY CYL	—
1	EA	90100	1000# DOT RECOVERY CYL WITH GAUGES	—
1	EA	90101	50# DOT HIGH PRESSURE 400PSI RECOVERY CYLINDER STEEL	—
1	EA	90103	200# DOT RECOVERY DRUM	—
1	EA	90105	125# DOT HIGH PRESSURE RECOVERY CYLINDER	—
1	EA	90117	50# DOT LOW PRESSURE 350PSI RECOVERY CYLINDER STEEL	—

NOTES: 200# drum for use with R-11 and R-113 only. For R-410A, the tank must be rated for 400 PSI.

## Refrigerant Labels



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PKG	91594	UD12 UNIT DISPOSAL LABELS	—

## Nu-Calgon Refrigerant Oil



4304-07



4316-44



4310-07



4308-07



4311-07

### Mineral Oil

Viscosity Range	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
150	6	EA	90184	4303-07 1 GAL 150 SUS C-3 MINERAL OIL	—	—
300	6	EA	90185	4304-07 1 GAL 300 SUS C-4 MINERAL OIL	—	—

### POE Oil

300	12	EA	90151	4316-44 1 QT 68H EMKARATE POE OIL - CARLYLE	—	—
300	4	EA	90150	4316-46 1 GAL 68H EMKARATE POE OIL - CARLYLE	—	—
150	4	EA	90144	4314-66 1 GAL UNIQEMA RL32-3MAF EMKARATE RL POE OIL	—	—

### Alkylbenzene Oil

150	6	EA	90123	4308-07 1 GAL ZEROL 200TD ALKYL BENZENE REFRIGERATION OIL	—	—
140-160	6	EA	90121	4310-07 1 GAL ZEROL 150 SUS ALKYL BENZENE REFRIGERATION OIL	—	—
290-310	6	EA	90122	4311-07 1 GAL ZEROL 300 SUS ALKYL BENZENE REFRIGERATION OIL	—	—



## Copeland® Refrigerant Oil

brand products



998-E022-01

### POE Oil

Viscosity Range	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
110	12	EA	96630	998-E022-00 1 QUART COPELAND POE OIL	—
110	6	EA	96629	998-E022-01 1 GALLON COPELAND POE OIL	—

### Alkylbenzene Oil

200	6	EA	96631	998-AB52-01 1 GALLON COPELAND ALKYL BENZENE OIL	—
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## Novent® Locking Refrigerant Caps



The Novent® Locking Refrigerant Caps are designed to fit the standard service valve on all AC units and mini split systems. They are precision machined from high grade brass encompassed within a protective color-coded aluminum casing. Can only be installed and removed with a special tool.

- Help prevent leaks and excessive energy usage from refrigerant loss
- Deter refrigerant theft
- Reduce potential liability due to injury or death from "huffing"
- Corrosion resistant cap and neoprene o-ring resists all oils

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PKG	54802	NCP-4 410A NOVENT REFRIGERANT LOCKING CAPS 4/PK	—
1	PKG	54804	NCE-4 EURO NOVENT REFRIGERANT LOCKING CAPS 4/PK	—
1	PKG	54803	NCG-4 R22 NOVENT REFRIGERANT LOCKING CAPS 4/PK	—
1	PKG	54805	NC-KEY NOVENT MULTIKEY	—

**Nu-Calgon Zerol Ice Compressor Lubricant**  
 Use with POE, Mineral, and Alkylbenzene Oils



4300-89



4300-99



4312-50

Zerol Ice is a revolutionary advancement in compressor lubrication technology.

- Enhances the lubricity of all lubricants: mineral, alkylbenzene, and POE
- Reduces friction drag resulting in: lower energy consumption, longer equipment service life, less noise, quieter operation
- Enhances the system oil's thermal properties, resulting in improved heat transfer in the evaporator and condenser
- Compatible with CFC, HCFC, and HFC refrigerants as well as with system materials such as EPR, EPDM, HNBR, polysulfates, silicones, and neoprene.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	90196	4300-89 RX-11 FLUSH INJECTION VALVE	—
1	EA	95981	4300-99 RX11 / ZEROL ICE INJECTION TOOL	—
6	EA	95982	4312-50 6 OZ CAN ZEROL ICE COMPRESSOR LUBRICANT	—
1	EA	95997	4312-52 6 OZ CAN ZEROL ICE 2+1 STARTER PACK COMPRESSOR LUBRICANT	—
1	EA	82655	69562 4 OZ OIL INJECTOR	—

**Nu-Calgon A/C Re-New Compressor Lubricant**  
 Use with POE, Mineral, and Alkylbenzene Oils



4057-50



4057-52



4057-55

A/C Re-New is a new branding of Zerol Ice for residential air conditioning systems.

- Quiets noisy compressors
- Reduces energy consumption
- Improves heat transfer in the evaporator and condenser
- Great for new and old systems

Zerol Ice has established an outstanding track record enhancing the performance of air conditioning and refrigeration systems. A/C Re-New is the same formula re-branded for residential air conditioning systems.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	96004	4057-50 R-22 6OZ PRESSURIZED CAN A/C RE-NEW COMPRESSOR LUBRICANT	—	—
1	EA	96005	4057-52 "2+1" START-UP KIT A/C RE-NEW COMPRESSOR LUBRICANT	—	—
6	EA	96006	4057-55 4OZ CAN (UNPRESSURIZED) R410A AC RE-NEW COMPRESSOR LUBRICANT	—	—



## QwikProducts™ Refrigerant Acid Test and Treatment Products



### QwikCheck® Acid Test Kit

Perform a Qwik acid test on operating systems. Ideal for preventative maintenance checks or for verifying acid clean-up after a compressor burn-out, change-out.

- 5-second refrigerant acid test.
- Simple color change indicates acid.
- Works with all refrigerants and oils.
- Meets EPA venting rules.



### QwikShot® Refrigerant/Oil Acid Treatment

Carries unwanted acid into the filter/dryer where both the acid and the QwikShot are removed without leaving any residue. Other treatments neutralize acid, but always form a salt residue that may cause equipment problems and/or invalidate a warranty.

- Safe for all systems.
- Concentrated. Includes four treatments per box (Up to a 12-ton unit).
- Works with all refrigerants and oils.



### QwikInjector® Service Tool

Use this simple tool to inject QwikShot acid treatment into operating systems. This tool is to be used with an ordinary gauge set.



### Qwiklug™ Compressor Terminal Repair Kit

- A quick and simple method to attach leads to damaged compressor terminals.
- Easily attaches to damaged or corroded spade connectors.
- Tightens quickly from the front with Phillips screwdriver.
- Nylon connectors prevent possible short circuits.
- Provides a durable connection; tested for over 100,000 compressor starts.
- Available with 10AWG or 12AWG leads in 2 ft. lengths.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
50	EA	90134	QT2000 QWIKCHECK ACID TEST KIT	—
6	EA	90135	QT2500 QWIKSHOT ACID REMOVAL	—
6	EA	90136	QT2510 QWIKINJECTOR 0.5 OZ. LIQUID INJECTOR	—
10	BAG	90137	QT2810 QWIKLUG - 10 AWG LEADS 3 TERM COMPRESSOR REPAIR LUGS	—
10	BAG	90138	QT2812 QWIKLUG - 12 AWG LEADS 3 TERM COMPRESSOR REPAIR LUGS	—



## TKO Acid Test Kits



This one-bottle test kit is a fast and simple way of determining whether the acid level is within an acceptable range. Simply fill the bottle with oil to the line on bottle neck and shake.

- Ultra-sensitive color change guarantees an accurate test. Marginal conditions cause partial color changes.
- If the test remains purple, oil is safe. If it turns yellow, acid is too high.
- Color comparison chart in every box.
- For use with mineral and alkylbenzene lubricants.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	95935	TKO ACID TEST KIT	—



## Universal Acid Alert Test Kit



The Acid Alert Test Kit contains two bottles and a four-step procedure to provide consistent test results. The phase separation provides a positive color change regardless of the color or condition of the oil. Each kit contains everything needed to conduct one test. Can be used with all refrigeration lubricants.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
24	EA	94340	AA UNIVERSAL ACID ALERT KIT	—

## Nu-Calgon Rx Acid Scavenger Acid Neutralizer



Rx-Acid Scavenger provides a better, more convenient way to neutralize or "scavenge" acid in refrigeration or air conditioning systems after burnouts or during normal on-going system maintenance. Normal dosage rate is 2 fl. oz. of Rx-Acid Scavenger for one gallon of system oil (50% less than other acid neutralizing products). This "low treat" feature means far less material has to be added to the system. Rx-Acid Scavenger is formulated for use with all lubricants including mineral, alkylbenzene and POE oils.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	90190	4301-02 2 OZ UNPRESSURIZED RX-ACID SCAVENGER	—	—
6	EA	90249	4301-05 3.8OZ PRESSURIZED RX-ACID SCAVENGER	—	—



## EPA Section 608 Technician Certification Self-Study Course



Since November 14, 1994, EPA-Approved Section 608 certification is needed to service building air conditioning and refrigeration systems. Technicians receiving a Universal Certification are certified to recover refrigerant during the maintenance, service or repair of small appliances high-pressure equipment and low-pressure equipment; they are certified to work on any type of air conditioning and refrigeration equipment except motor vehicle air conditioning.

- Test administered at your local G.W. Berkheimer store
- EPA approved test for Type I, II, III, and Universal
- Receive your EPA certification card, video tape, audio tape, reference manual, Qwik Study Guide, practice tests, and EPA final test
- Course material presented quickly and easily
- Price includes EPA certification test and card
- Pass the test the first time
- No waiting for a class to form
- Results available online at [www.epatest.com](http://www.epatest.com)
- Exams processed within 2 business days
- Toll free customer support

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	EA	95001	QT3100 QWIK 608 SELF STUDY EPA COURSE (TEST NOT INCLUDED)	—
5	EA	95002	QT3001 QWIK 608 UNIVERSAL TEST ONLY	—

**Copeland**<sup>®</sup> **General Notes**  
brand products

- Specifications are subject to change without notice.
- Dimensions and tube locations pictured are for standard Copeland models. They are not intended to be an accurate representation of all compressors.
- With state-of-the-art compressor technology and the industry's emphasis on efficiency, compressor characteristics such as horsepower and displacement are no longer a viable means of selecting replacement compressors. Today's high efficiency compressors will have a greater capacity for a given horsepower (BTU/HP). Therefore capacity (BTU/HR) is the only acceptable means of selecting a replacement compressor.
- Crankcase heaters are strongly recommended on all systems where the compressor is exposed to cold ambient temperatures, on all split air conditioning systems, and on packaged air conditioning equipment 5 HP and larger.
- Replace all starting components on single phase compressors.
- Check and replace the contactor, if required, on three phase compressors.
- Replace liquid line filter drier.
- All of the competitive compressor performance data and/or dimensional data used in this cross-reference guide was taken from published information. Copeland assumes no responsibility for the original data.
- When a compressor has failed and must be replaced, determine the cause of the failure and take corrective action or the replacement compressor will fail.
- For the most current information on Copeland and all other Emerson Climate Technologies Products visit their website at [www.emersonclimatecontractor.com](http://www.emersonclimatecontractor.com)

**Copeland**<sup>®</sup> brand products **Bill of Material**  
**Copelaweld and Scroll**

The last 3 digits of a compressor model number, the bill of material, can tell a lot about the compressor configuration and other details as well. The information below provides some general guidelines.

However, there are always exceptions to these general rules and if specific and precise information on a full and complete model number is necessary you can get that information from your local authorized Copeland wholesaler.

xxxx-xxxx-xxx-**Xxx** **The first digit \_\_xx:**

- 1xx series (example - 100), used in Copeland condensing units.
- -2xx (example - 202), new production compressors used by OEMs.
- -5xx (example - 501), international compressors, may end up back in the U.S. in equipment.
- -7xx (example - 7M0), OEM service compressor.
- -9xx (example - 959 or - 970), wholesaler service compressors used to replace the above bills of material in most situations which include oil, protector, terminal box cover, and mounting parts in a single carton.

xxxx-xxxx-xxx-**xXx** **The second digit -x\_\_x:**

- 0=sweat connections.
- 3=sweat connections, no electrical components, usually Scroll and some CRs.
- 5=rotalock connection(s) or a valve welded on the suction side. Exception, some Scroll compressors are sweat.
- 7=sweat connections with terminal flag kit, no electrical components. CRs primarily.

xxxx-xxxx-xxx-**xxX** **The third digit -xx\_\_:**

- 0=no electrical components with the compressor.
- 1-3=cc heater voltage variation.
- 8=electrical components mounted.
- 9=electrical components remote, in the box with the service compressor.

xxxx-xxxx-xxx-**XXX** **Copelametic and Discus**

As in other Copeland compressors, the last 3 digits are the bill of material for these compressors.

- -1xx used on Copeland condensing units.
- -2xx new production compressors.
- -5xx international-may come back into this country in equipment.
- -8xx service replacement compressors\*.

\* These replacement compressors come with oil, protector, a complete gasket set, in a single carton from your authorized Copeland wholesalers. These replacement compressors can be used to replace all of the above in most cases. They are shipped less starting components, service valves and mounting parts. Two stage and capacity control models come less tubing, capacity control valve and coil where applicable.

**Copeland Lubricant Data**

Some semi-hermetic compressors are shipped to original rack equipment manufacturers (OEMs) less oil. The nameplate on these has an "L" in the eighth digit. Example: 3DA3-075L-TFC-200. This simply indicates the compressor was shipped to the OEM "less oil". The OEMs add the required lubricant required for the equipment application.

xxxx-xxxL-xxx-xxx: L = Shipped to OEM less oil. Oil added by OEM.

xxxx-xxxE-xxx-xxx: E = Compressor charged with Ultra 22 CC Polyol Ester Lubricant.

xxxx-xxxA-xxx-xxx: A = Compressor charged with Ultra 200 Alkybenzene Lubricant.

Compressors without any of the above designations are charged with approved mineral oil.

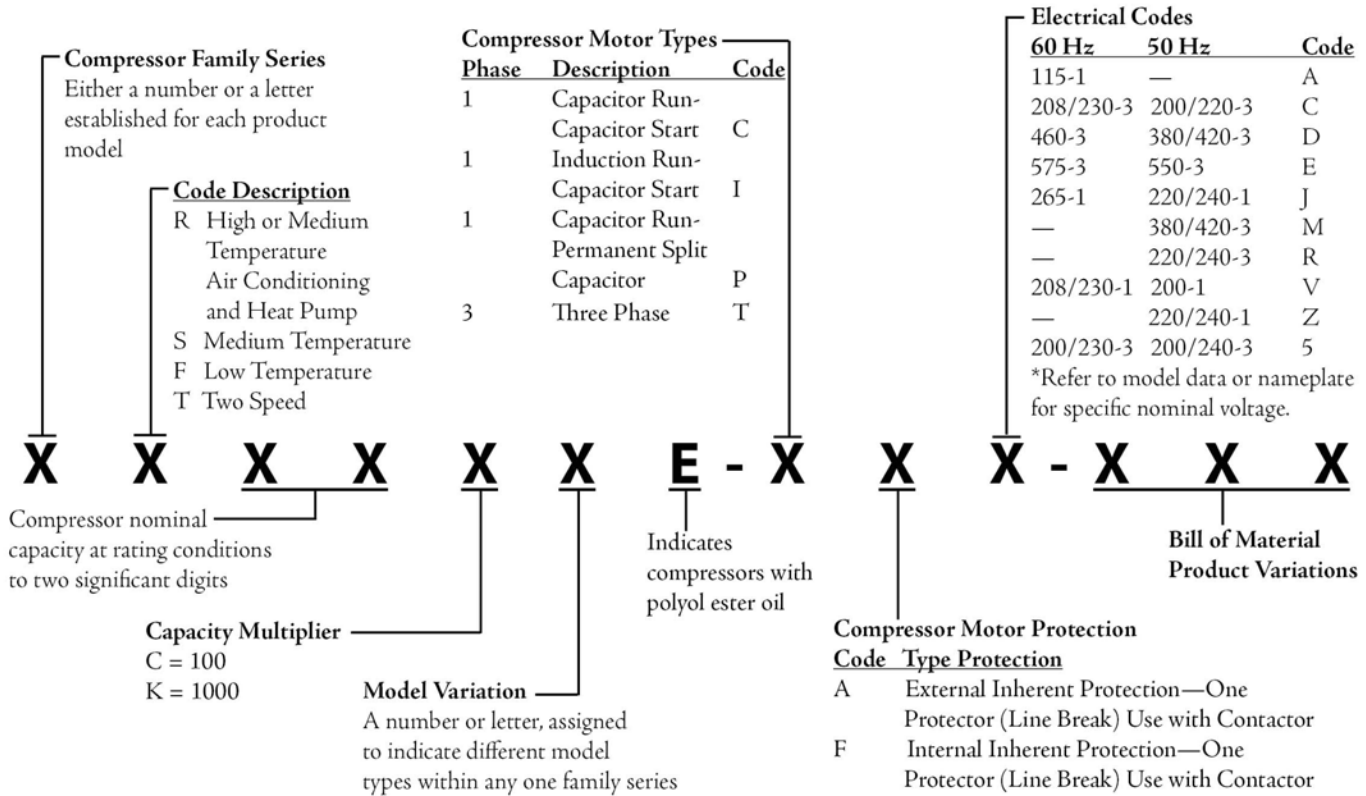
# Copeland Warranty Information

Copeland contactors have the standard 12-month Copeland warranty for parts. Copeland requires the return of this product to be considered for warranty (for complete warranty and return procedure details see Copeland's Wholesaler Policies and Procedures Manual, Form No. 88-90W R1).

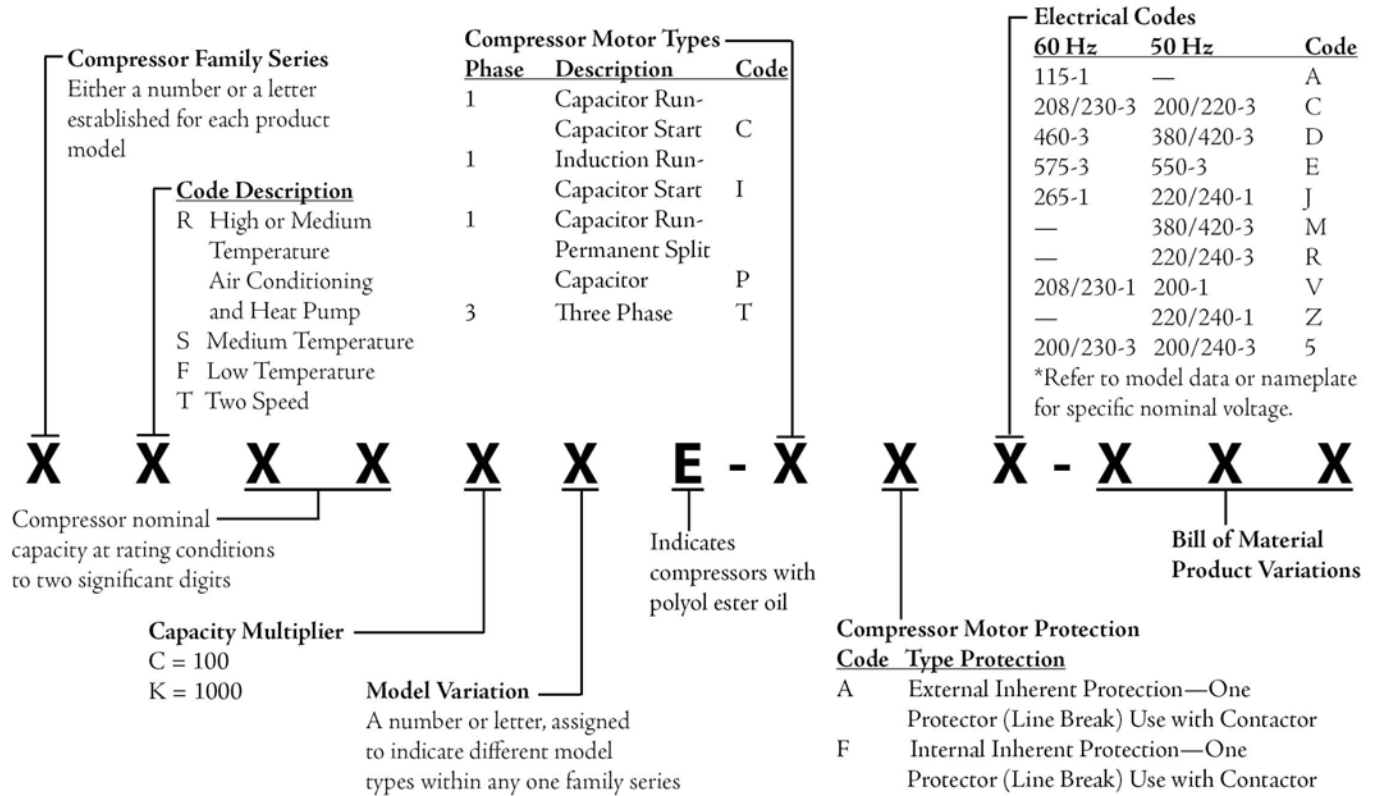
Copeland has determined that a single-phase motor burn is the result of the malfunction or misapplication of the system contactor(s). Copeland does not warrant 4, 6, or 8 model semi-hermetic service compressors that are determined to have a single-phase motor burn. This applies only to service compressors that were sold after January 1, 2001.

In addition, Copeland reserves the right to issue credit to Wholesalers for 4, 6, or 8 model semi-hermetic service compressors that are determined to have a single-phase motor burn caused by a Copeland contactor. All considerations for credit will require the return of the Copeland compressor, Copeland contactor, wholesaler invoice and contractor invoice. Effective on compressors sold after January 1, 2002, Copeland will no longer issue credit for 4, 6, or 8 model semi-hermetic service compressors that are determined to have a single-phase motor burn caused by a non-Copeland contactor.

## Copeland® Copelaweld® Nomenclature

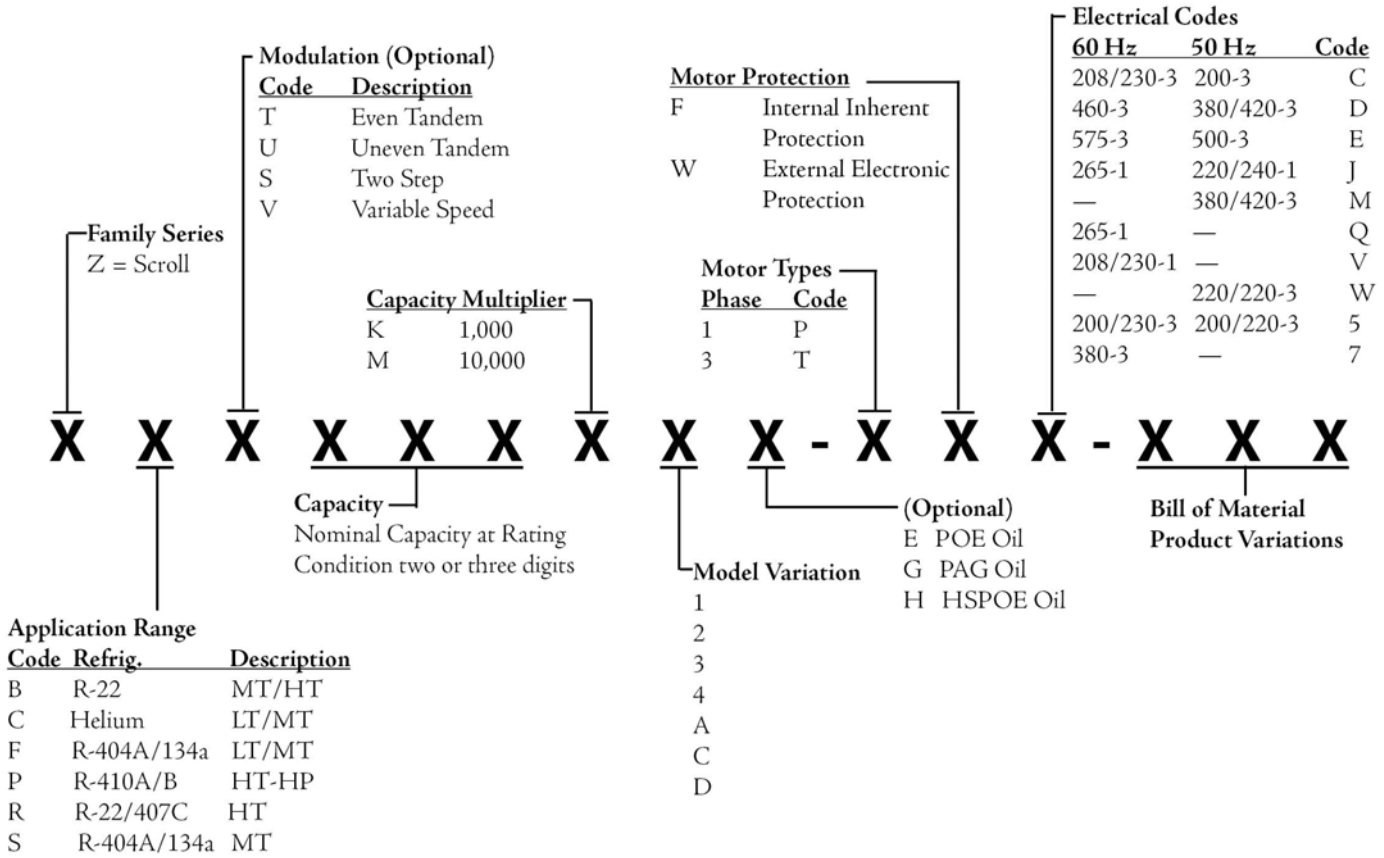


**Copeland® Copelaweld® HFC Nomenclature**  
brand products



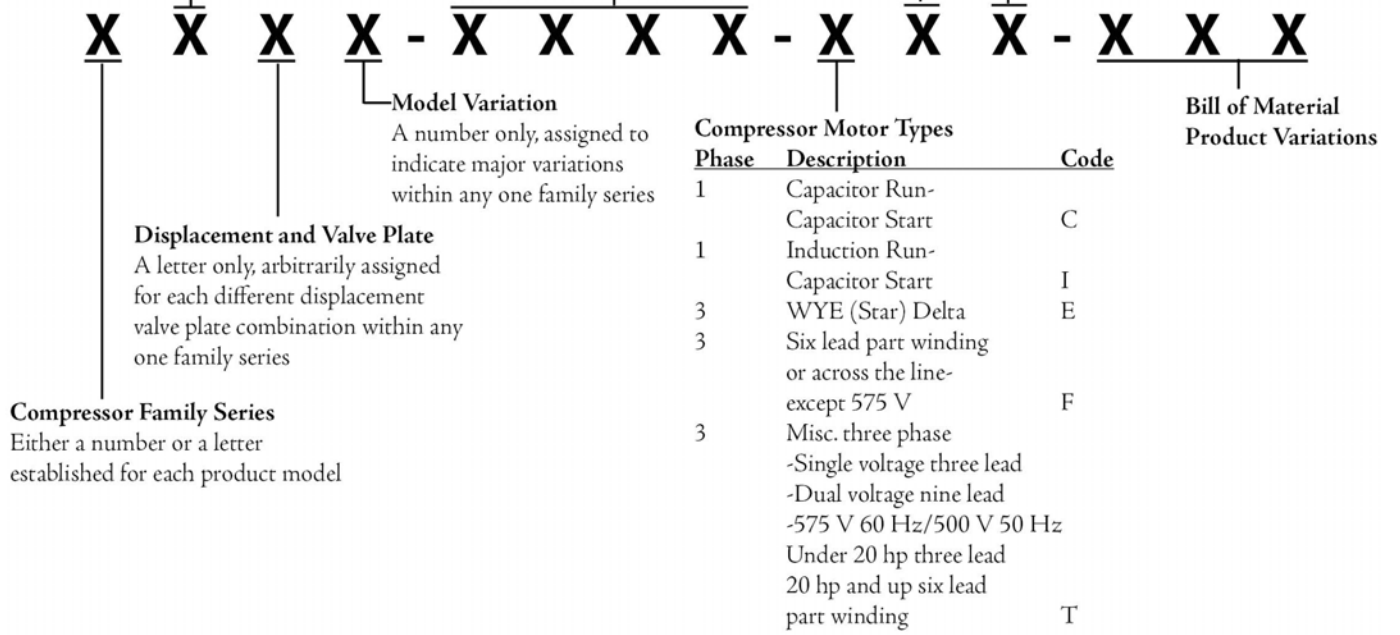


**Copeland** Copeland Scroll™ Nomenclature



**Copeland** brand products **Copelametic® and Old Discus® Model Nomenclature**

		<b>Compressor Motor Rating</b>		<b>Compressor Motor Protection</b>					
		<u>Nominal (hp)</u>	<u>Code</u>	<u>Code</u>	<u>Type</u>	<u>Protection</u>			
		1/3	0033	A	External Inherent Protection-	One Protector, (Line Break)			
		1/2	0050		Use with Contactor				
		1/2	0051	F	Internal Inherent Protection-	One Protector, (Line Break)			
		3/4	0075		Use with Contactor				
		1	0100	H	Internal Thermostat(s); Ext. Supplementary Protector(s)	Mounted on Compressor. (Two for 30, one for 10.)			
		1-1/2	0150		Use with Contactor				
		2	0200	L	Internal Thermostat(s); and Three Ext. Supplementary	Protectors Mounted on Compressor	Use with Contactor		
		2	0210	S	Internal Thermal Protection-Electronic Sensors; and Control	Module External	Use with Contactor		
		3	0300						
		3	0310						
		3	0311						
		4	0400						
		5	0500						
		5	0505						
		6	0600						
		7-1/2	0750						
		7-1/2	0765						
		9	0900						
		10	1000						
		10	1015						
		12	1200						
		15	1500						
		20	2000						
		22	2200						
		25	2500						
		27	2700						
		30	3000						
		35	3500						
		40	4000						
							<b>Electrical Codes</b>		
							<u>60 Hz</u>	<u>50 Hz</u>	<u>Code</u>
							115-1	—	A
							230-1	—	B
							208/230-3	200/220-3	C
							460-3	380/420-3	D
							575-3	550-3	E
							208/230/460-3	200/280/400-3	K
							—	210/240/380-3	L
							—	380/420-3	M
							230/460-3	200/400-3	N
							—	200/240-3	R
							200-3	—	U
							208/230-1	200/220-1	V
							—	220/240-1	Z



**Copeland® brand products Discus® Compressor New Model Number Nomenclature**

**Compressor Cooling Code Description**

A	Air Cooled
D	Discus
R	Refrigerant Cooled
T	Std. Two Stage
W	Water Cooled

**Application Range**

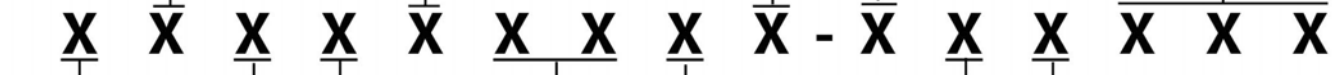
R = ARI High/Med Temp. Rated at 45/130  
 S = ARI Med Temp. Rated at 20/120  
 F = ARI Low Temp. Rated at -25/105

A = Alkylbenzene  
 E = POE Oil  
 L = Less Oil

**Compressor Motor Types**

Phase	Description	Code
1	Capacitor Run-Capacitor Start	C
1	Induction Run-Capacitor Start	I
1	Induction Run-Split Phase	S
1	Induction Run-Capacitor Start, Low Torque	X
3	WYE (Star) Delta	E
3	Six lead part winding or across the line-except 575 V	F
3	Misc. three phase -Single voltage three lead -Dual voltage nine lead -575 V 60 Hz/500 V 50 Hz Under 20 hp three lead 20 hp and up six lead part winding	T

**Product Variations**



**Compressor Family Series**

**Displacement and Valve Plate**

A letter only, arbitrarily assigned for each different displacement valve plate combination within any one family series

**Model Variation**  
 A number only, assigned to indicate major variations within any one family series

**Capacity Multiplier**

K - 1,000  
 M - 10,000

**Nominal Capacity at Rating Condition**

**Compressor Motor Protection**

Code	Type Protection
A	External Inherent Protection- One Protector, (Line Break) Use with Contactor
F	Internal Inherent Protection- One Protector, (Line Break) Use with Contactor
H	Internal Thermostat(s); Ext. Supplementary Protector(s) Mounted on Compressor. (Two for 30, one for 10.) Use with Contactor
L	Internal Thermostat(s); and Three Ext. Supplementary Protectors Mounted on Compressor Use with Contactor
S	Internal Thermal Protection-Electronic Sensors; and Control Module External Use with Contactor

**Electrical Codes**

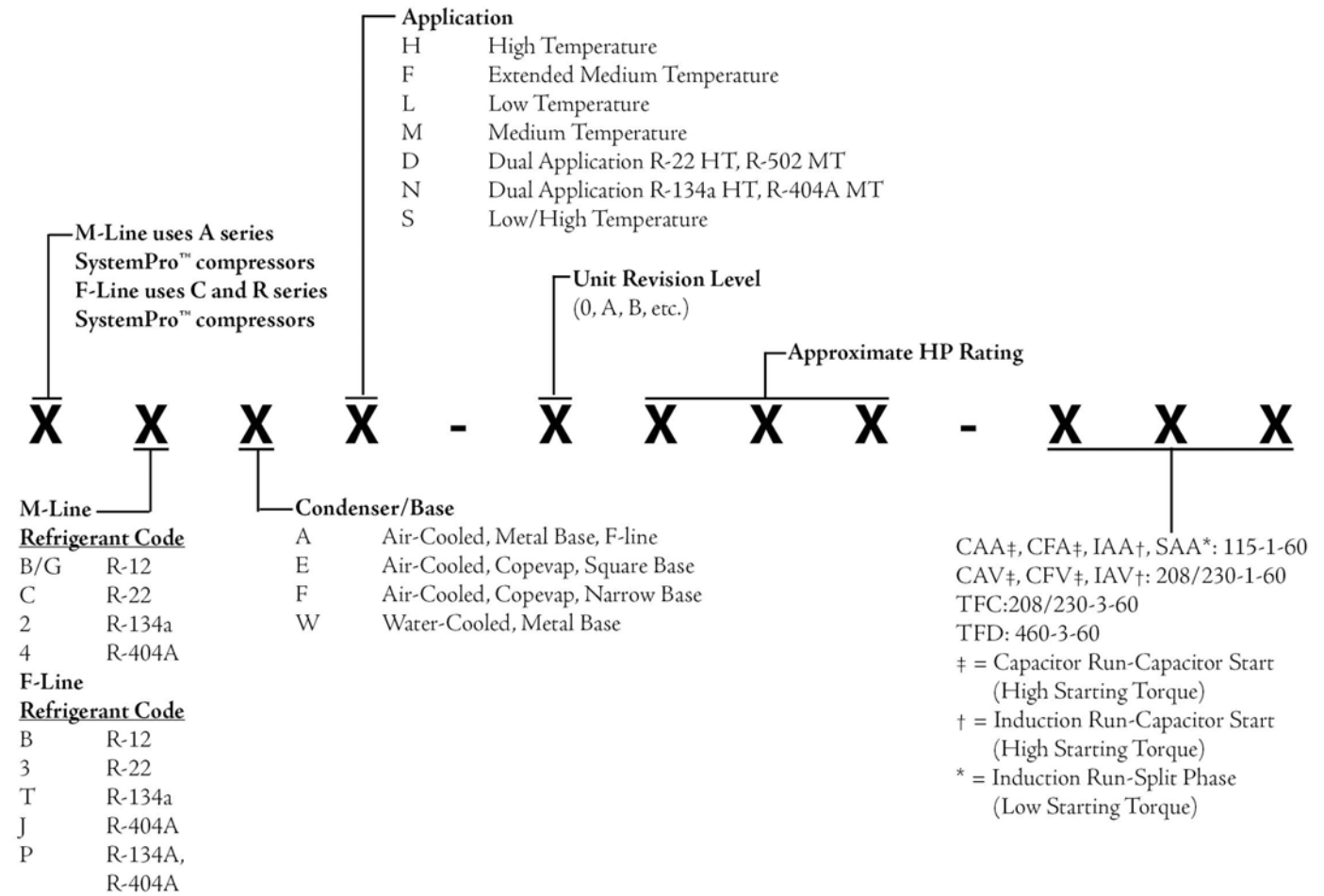
60 Hz	Code
115-1	A
230-1	B
208/230-3	C
460-3	D
575-3	E
208-1	H
208/230/460-3	K
230/460-3	N
200-3	U
208/230-1	V
100-1	4
200/230-3	5
230-3	6
380	7
200/220/380	8

**Note on Tandem Models:**

Nominal horsepower rating of tandem compressors is sum of individual compressor ratings.

Indicated by the digit representing the compressor model series connected in tandem with a compressor of the model series indicated by the first digit.

**Copeland** brand products **SystemPro™ Condensing Unit Nomenclature**



**Copeland®** Condensing Unit Model Number Nomenclature

brand products

(All Models Except M-Line)

**Design Series and Refrigerant**

Letters (except K, L, M)	R-12
K, L	R-22 LT
M	R-22 LT Discus
Numbers (except 6 and 7)	R-22/R-502
6, 7	R-12/R-502
X, 9	Special Designs

**Compressor Motor Rating**

Nominal (hp)	Code
1/4	0025
1/3	0033
1/2	0050
3/4	0075
1	0100
1-1/2	0150
2	0200
2-1/2	0250
3	0300
3-1/2	0350
4	0400
5	0500
6	0600
7-1/2	0750
9	0900
10	1000
15	1500
20	2000
22	2200
25	2500
27	2700
30	3000
40	4000
50	5000
60	6000
70	7000
80	8000

**Electrical Codes**

60 Hz	50 Hz	Code
115-1	100-1	A
230-1	200-1	B
208/230-3	200/220-3	C
460-3	380/420-3	D
575-3	550-3	E
—	115-1	F
—	230-1	G
208-1	200-1	H
—	208/230-1	I
265-1	220/240-1	J
208/230/460-3	200/400-3	K
—	210/240/380-3	L
—	380/420-3	M
230/460-3	200/400-3	N
—	200/380-3	P
—	200/240-3	R
—	220-1	S
—	200-1	T
200-3	—	U
208/230-1	200/220-1	V
—	200/220-3	W
—	500-3	Y
—	220/240-1	Z
200-1	200-1	3
100-1	100-1	4
200/230-3	—	5
230-3	—	6

**Type of Design**

Type	Code
Air Cooled	A
No Condenser	N
Water Cooled	W
Evaporating	
Fan Base	E
Discus	D

**Compressor Motor Types**

Phase	Description	Code
1	Capacitor Run-Capacitor Start	C
1	Induction Run-Capacitor Start	I
1	Induction Run-Split Phase	S
1	Induction Run-Capacitor Start, Low Torque	X
1	Capacitor Run-Permanent Split Capacitor	P
3	Three Lead Single Voltage Six Lead Part Winding 575V	T
3	WYE (Star) Delta	E
3	Six lead part winding or across the line-	F

**Bill of Material Product Variations**

**Compressor Motor Protection**

Code	Type Protection
A	External Inherent Protection-One Protector, (Line Break) Use with Contactor
F	Internal Inherent Protection-One Protector, (Line Break) Use with Contactor
H	Internal Thermostat(s); Ext. Supplementary Protector(s) Mounted on Compressor. (Two for 30, one for 10.) Use with Contactor
L	Internal Thermostat(s); and Three Ext. Supplementary Protectors Mounted on Compressor Use with Contactor
S	Internal Thermal Protection-Electronic Sensors; and Control Module External Use with Contactor



Condensing Unit Family Series

**Application Temperature**

Temp. Min./Max.	Code
High 45/0	H
Medium 25/-5	M
Medium 25/-25	F
Low 0/-40	L
Extra Low -20/-40	E
Two Stage 1/-40	T
Two Stage (Extra Low) -30/-80	U
Commercial App. High and Medium Single Refrigerant	C
Dual App. R-22 HT, R-502 MT	D
Multiple App. R-12 H/MT, R-502 LT	B

**Copeland**<sup>®</sup> Copeland to Copeland Quick Reference  
brand products

Copeland Model	Copeland Replacement Model
AF04C1E-SAA	AFB04C3E-SAA
AF05C1E-IAA	AFB05C3E-IAA
AF05C1E-SAA	AFB05C3E-SAA
AF07C1E-IAA	AFE07C3E-IAA
AF09C1E-IAA	AFE07C3E-IAA
AF10C2E-IAA	AFE10C3E-IAA
AF11C1E-IAA	AFE11C3E-IAA
AF12C1E-IAA	AFT12C1E-IAA
AF13C1E-IAA	AFE13C3E-IAA
AF18C1E-IAA	AFT18C1E-IAA
AF22C1E-CFV	AFT22C1E-CFV
AF22C1E-IAA	AFT22C1E-IAA
AF26C1E-CFA	AFT26C1E-CFA
AF26C1E-CFV	AFT26C1E-CFV
AF29C1E-CFA	AFT29C1E-CFA
AF29C1E-CFV	AFT29C1E-CFV
AF31C1E-CFV	AFJ31C1E-CFV
AF37C1E-CFA	No Replacement
AF37C1E-CFV	AFJ37C1E-CFV
AFB04C3E-SAA	AFB04C3E-SAA
AFB05C3E-IAA	AFB05C3E-IAA
AFB05C3E-SAA	AFB05C3E-SAA
AFC1-0013-SAA	ARB10C3-SAA
AFD1-0017-SAA	ARB13C3-SAA
AFE07C3E-IAA	AFE07C3E-IAA
AFE1-0023-SAA	ARE25C3-SAA
AFE10C3E-IAA	AFE10C3E-IAA
AFE11C3E-IAA	AFE11C3E-IAA
AFE12C3-IAA	ARE41C3-IAA
AFE12C3-SAA	ARE41C3-SAA
ARE41C3-SAA	ARE41C3-SAA
AFE13C3E-IAA	AFE13C3E-IAA
AFF1-0025-SAA	ARE27C3-SAA
AFF2-0025-IAA	No Replacement
AFG2-0026-IAA	ARE37C3-IAA
AFG2-0026-SAA	ARE37C3-SAA
AFH2-0033-IAA	ARE41C3-IAA
AFH2-0033-SAA	ARE41C3-SAA
AFH3-0033-IAA	No Replacement
AFJ1-0050-IAA	AFJ23C1-IAA
AFJ31C1E-CFV	AFJ31C1E-CFV
AFJ37C1E-CFV	AFJ37C1E-CFV
AFK1-0034-IAA	AFT12C1-IAA
AFT12C1E-IAA	AFT12C1E-IAA
AFT12C1-IAA	AFT12C1-IAA
AFT18C1E-IAA	AFT18C1E-IAA
AFT22C1E-CFV	AFT22C1E-CFV
AFT22C1E-IAA	AFT22C1E-IAA
AFT26C1E-CFA	AFT26C1E-CFA
AFT26C1E-CFV	AFT26C1E-CFV

Copeland Model	Copeland Replacement Model
AFT29C1E-CFA	AFT29C1E-CFA
AFT29C1E-CFV	AFT29C1E-CFV
AR11K1E-CAV	ARJ11K1E-CAV
AR13C1E-IAA	ARB13C3E-IAA
AR13C1E-SAA	ARB13C3E-SAA
AR17C1E-IAA	ARB17C3E-IAA
AR17C1E-SAA	ARB17C3E-SAA
AR25C1E-IAA	ARE25C3E-IAA
AR25C1E-SAA	ARE25C3E-SAA
AR27C1E-IAA	ARE27C3E-IAA
AR27C1E-SAA	ARE27C3E-SAA
AR37C1E-IAA	ARE37C3E-IAA
AR37C1E-IAV	ARE37C3E-IAV
AR37C1E-SAA	ARE37C3E-SAA
AR41C1E-IAA	ARE41C3E-IAA
AR51C1E-IAA	ART51C1E-IAA
AR51C1E-IAV	ART51C1E-IAV
AR62C1E-IAA	ART62C1E-IAA
AR62C1E-IAV	ART62C1E-IAV
AR64C1E-IAA	ART64C1E-IAA
AR64C1E-IAV	ART64C1E-IAV
AR84C1E-IAV	ARJ84C1E-IAV
ARB10C3-SAA	ARB10C3-SAA
ARB13C3E-IAA	ARB13C3E-IAA
ARB13C3E-SAA	ARB13C3E-SAA
ARB13C3-SAA	ARB13C3-SAA
ARB17C3E-IAA	ARB17C3E-IAA
ARB17C3E-SAA	ARB17C3E-SAA
ARB17C3-SAA	ARB17C3-SAA
ARB21C3-IAA	ARB21C3-IAA
ARC1-0017-SAA	ARB13C3-SAA
ARD1-0020-SAA	ARB17C3-SAA
ARD4-0022-IAA	ARB21C3-IAA
ARE1-0023-SAA	ARE25C3-SAA
ARE25C3E-IAA	ARE25C3E-IAA
ARE25C3E-SAA	ARE25C3E-SAA
ARE25C3-SAA	ARE25C3-SAA
ARE27C3E-IAA	ARE27C3E-IAA
ARE27C3E-SAA	ARE27C3E-SAA
ARE27C3-IAA	ARE27C3-IAA
ARE27C3-SAA	ARE27C3-SAA
ARE36C3-IAA	ARE36C3-IAA
ARE36C3-SAA	ARE36C3-SAA
ARE37C3E-IAA	ARE37C3E-IAA
ARE37C3E-IAV	ARE37C3E-IAV
ARE37C3E-SAA	ARE37C3E-SAA
ARE37C3-IAA	ARE37C3-IAA
ARE37C3-SAA	ARE37C3-SAA
ARE4-0025-IAA	ARE36C3-IAA
ARE41C3E-IAA	ARE41C3E-IAA

**Copeland®** Copeland to Copeland Quick Reference

brand products

Copeland Model	Copeland Replacement Model
ARE41C3E-IAV	ARE41C3E-IAV
ARE41C3-IAA	ARE41C3-IAA
ARE43C3-IAA	ARE43C3-IAA
ARE47C3-IAA	ARE47C3-IAA
ARE5-0025-SAA	ARE36C3-SAA
ARE59C3-CAA	ARE59C3-CAA
ARE59C3-CAV	ARE59C3-CAV
ARF2-0025-IAA	ARE27C3-IAA
ARF2-0025-SAA	ARE27C3-SAA
ARF4-0033-IAA	ARE43C3-IAA
ARG2-0033-IAA	ARE37C3-IAA
ARG2-0033-SAA	ARE37C3-SAA
ARG4-0051-CAA	ARE59C3-CAA
ARG4-0051-CAV	ARE59C3-CAV
ARG4-0055-IAA	ART69C1-IAA
ARG4-0055-IAV	ART69C1-IAV
ARH1-0049-IAA	ART51C1-IAA
ARJ11K1-CAV	ARJ11K1-CAV
ARJ11K1E-CAV	ARJ11K1E-CAV
ARJ84C1E-IAV	ARJ84C1E-IAV
ARJ84C1-IAA	ARJ84C1-IAA
ARJ84C1-IAV	ARJ84C1-IAV
ARK1-0050-IAA	ART62C1-IAA
ARM1-0075-IAA	ARJ84C1-IAA
ARM1-0075-IAV	ARJ84C1-IAV
ARM3-0076-CAA	ART82C1-CAA
ARM3-0076-CAV	ART82C1-CAV
ARN1-0100-CAV	ARJ11K1-CAV
ARN3-0100-PAA	ART97C1-PAA
ARN3-0100-PAV	ART97C1-PAV
ART51C1E-IAA	ART51C1E-IAA
ART51C1E-IAV	ART51C1E-IAV
ART51C1-IAA	ART51C1-IAA
ART51C1-IAV	ART51C1-IAV
ART62C1E-IAA	ART62C1E-IAA
ART62C1E-IAV	ART62C1E-IAV
ART62C1-IAA	ART62C1-IAA
ART64C1E-IAA	ART64C1E-IAA
ART64C1E-IAV	ART64C1E-IAV
ART69C1-IAA	ART69C1-IAA
ART69C1-IAV	ART69C1-IAV
ART82C1-CAA	ART82C1-CAA
ART82C1-CAV	ART82C1-CAV
ART97C1-PAA	ART97C1-PAA
ART97C1-PAV	ART97C1-PAV
AS10C1E-IAA	AFE11C3E-IAA
AS12C1E-IAA	ASB12C3E-IAA
AS13C1E-IAA	AFE13C3E-IAA
AS14C1E-IAA	ASB14C3E-IAA
AS18C1E-IAA	AFT18C1E-IAA

Copeland Model	Copeland Replacement Model
AS19C1E-IAA	ASE19C3E-IAA
AS22C1E-IAA	AFT22C1E-IAA
AS24C1E-IAA	ASE24C3E-IAA
AS24C1E-IAV	ASE24C3E-IAV
AS26C1E-CFV	AFT26C1E-CFV
AS26C1E-IAA	AFT26C1E-CFA
AS29C1E-IAA	AFT29C1E-CFA
AS31C1E-CFV	AFJ31C1E-CFV
AS32C1E-CAA	ASE32C3E-CAA
AS32C1E-CAV	ASE32C3E-CAV
AS37C1E-IAA	AST40C1E-IAA
AS40C1E-IAA	AST40C1E-IAA
AS40C1E-IAV	AST40C1E-IAV
AS45C1E-CAV	AST45C1E-CAV
AS45C1E-IAA	AST45C1E-IAA
AS54C1E-CAA	AST54C1E-CAA
AS54C1E-CAV	AST54C1E-CAV
ASB12C3E-IAA	ASB12C3E-IAA
ASB14C3E-IAA	ASB14C3E-IAA
ASE19C3E-IAA	ASE19C3E-IAA
ASE24C3E-IAA	ASE24C3E-IAA
ASE24C3E-IAV	ASE24C3E-IAV
ASE32C3E-CAA	ASE32C3E-CAA
ASE32C3E-CAV	ASE32C3E-CAV
AST40C1E-IAA	AST40C1E-IAA
AST40C1E-IAV	AST40C1E-IAV
AST45C1E-CAV	AST45C1E-CAV
AST45C1E-IAA	AST45C1E-IAA
AST54C1E-CAA	AST54C1E-CAA
AST54C1E-CAV	AST54C1E-CAV
CF04K6E	CF04K6E
CF06K6E	CF06K6E
CF09K6E	CF09K6E
CF12K6E	CF12K6E
CR16K6	CR16K6
CR16KF	CR16K6
CR18K6	CRA1-0150
CR18KF	CRA1-0150
CR20K6	CRB1-0175
CR20KF	CRB1-0175
CR22K6-P	CRC1-0175-P
CR22K6-TF5	CRC1-0175-T
CR22K6-TFD	CRD1-0200-T
CR22KF	CRC1-0175
CR24K6	CRD1-0200
CR24KF	CRD1-0200-P
CR26K6	CRE2-0225
CR26KF	CRE2-0225
CR28K6-P	CRE2-0225-P
CR28K6-T	CRF1-0250-T

**Copeland**<sup>®</sup> Copeland to Copeland Quick Reference  
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Copeland Model	Copeland Replacement Model
CR28KF	CRE2-0225
CR30K6-P	CRF2-0250-P
CR30K6-T	CRF1-0250-T
CR30KF	CRF2-0250
CR32K6	CR33KQ
CR32KF	CR33KQ
CR33KQ	CR33KQ
CR34K6	CR34KQ
CR34KF	CR34KQ
CR34KQ	CR34KQ
CR35K6	CR36KQ
CR35KF	CR36KQ
CR36KQ	CR36KQ
CR37KQ	CR37KQ
CR38K6	CR37KQ
CR41KQ	CR41KQ
CR42K6	CR41KQ
CR47KQ	CR47KQ
CR53KQ	CR53KQ
CRA1-0150	CRA1-0150
CRA4-0150	CRA1-0150
CRB1-0175	CRB1-0175
CRB4-0150	CRB1-0175
CRC1-0175	CRC1-0175
CRC2-0175	CRC1-0175
CRC4-0175	CRC1-0175
CRD1-0200	CRD1-0200
CRD4-0200	CRD1-0200
CRE1-0225	CRE1-0225
CRE2-0225	CRE2-0225
CRE4-0225	CRE2-0225
CRF1-0250	CRF1-0250
CRF2-0250	CRF2-0250
CRF4-0250	CRF2-0250
CRG1-0250	CR33KQ
CRG3-0250	CR33KQ
CRH1-0275	CR34KQ
CRH3-0275	CR34KQ
CRJ1-0290	CR36KQ
CRJ1-0300	CR36KQ
CRJ3-0300	CR37KQ
CRK1-0325	CR41KQ
CRK3-0325	CR41KQ
CRL1-0350	CR47KQ
CRL3-0350	CR47KQ
CRM1-0400	CR53KQ
CRM3-0400	CR53KQ
CRN1-0500	CRN5-0500
CRN5-0500	CRN5-0500
CRP1-0450	CRP5-0450

Copeland Model	Copeland Replacement Model
CRP5-0450	CRP5-0450
CRT5-0450	CRT5-0450
CRZ4-0150	CR16K6
CS10K6E	CS10K6E
CS12K6E	CS12K6E
CS14K6E	CS14K6E
CS18K6E	CS18K6E
CS20K6E	CS20K6E
CS27K3E	CS27K3E
CS33K3E	CS33K3E
CTH1-0275	CTH1-0275
CTL1-0350	CTL1-0350
CTM1-0400	CTM1-0400
CTN1-0500	CTN1-0500
4U18-302	CR33KQ
4U26-0401	CR47KQ
4U26-0402	CR47KQ
4US1-501	CRP5-0450
4US1-502	CRP5-0450
SEA1-0200	CRB1-0175
SEB1-0200	CRC1-0175
SEC1-0200	CRD1-0200
SEF1-0175	CRA1-0150
SEH1-0200	CRD1-0200
SEH2-0225	CRF2-0250
SEJ1-0225	CRE2-0225
SEK1-0250	CRF2-0250
SEM1-0275	CR33KQ
SEN2-0175	CRA1-0150
SEP2-0200	CRC1-0175
SHB2-0200	CRC1-0175
SHC2-0200	CRD1-0200
SHF2-0175	CRA1-0150
SHK2-0250	CRF2-0250
SHM2-0275	CR33KQ
SRA4-0200	CRB1-0175
SRA5-0200	CRC1-0175
SRA6-0200	CRB1-0175
SRB4-0200	CRC1-0175
SRB5-0200	CRC1-0175
SRB6-0200	CRC1-0175
SRC4-0200	CRD1-0200
SRC5-0200	CRD1-0200
SRC6-0200	CRD1-0200
SRD4-0224	CRE2-0225
SRD4-0225	CRE2-0225
SRD5-0225	CRE2-0225
SRD6-0225	CRE2-0225
SRE4-0250	CRF2-0250
SRF5-0175	CRA1-0150



**Copeland®** Copeland to Copeland Quick Reference

Copeland Model	Copeland Replacement Model
SRH4-0200	CRD1-0200
SRJ4-0225	CRE2-0225
SRK4-0250	CRF2-0250
SRK5-0250	CR33KQ
SRM4-0275	CR33KQ
URA1-2000	CRE2-0225
US12-0200	CRD1-0200
USS3-0200	CRD1-0200
VRB1-0300	CR41KQ
VRC1-0350	CR47KQ
VRD1-0400	CR53KQ
VRE1-0500	CRN5-0500
YEB1-0300	CR41KQ
YEB1-0301	CR41KQ
YEC1-0350	CR47KQ
YEH4-0500-PFB	CRP5-0450-PFV
YEH5-0500	CRP5-0450
YEJ1-0275	CR33KQ
YEK1-0325	CR41KQ
YEL1-0350	CR47KQ
YHB1-0300	CR41KQ
YHB1-0301	CR41KQ
YHC1-0350	CR47KQ
YHD2-0400	CR47KQ
YHD6-0400	CR53KQ
YHJ1-0275	CR33KQ
YHK1-0325	CR41KQ
YHL1-0350	CR47KQ
YRB2-0300	CR41KQ
YRB2-0301	CR41KQ
YRB4-0300	CR41KQ
YRB4-0301	CR41KQ
YRC2-0350	CR47KQ
YRC4-0350-PFB	CR47KQ-PFV
YRC4-0350-PFH	CR47KQ-PFV
YRC4-0350-PFV	CR47KQ-PFV
YRC4-0350-T	CR47KQ-T
YRD2-0400	CR47KQ
YRD4-0400-PFB	CR47KQ-PFV
YRD4-0400-PFH	CR47KQ-PFV
YRD4-0400-PFV	CR47KQ-PFV
YRD4-0400-T	CR47KQ-T
YRD5-0400	CR47KQ
YRD6-0400	CR53KQ
YRE2-0500	CRP5-0450
YRE4-0500-PFV	CRP5-0450-PFV
YRE4-0500-T	CRP5-0450-T
YRE5-0500	CRP5-0450
YRE6-0500	CRP5-0450
YRF2-0450	CR53KQ

Copeland Model	Copeland Replacement Model
REB3-0150-PFV	RR14K1-PFV
REBQ-0150-PFV	RS80C2E-CAV
REK3-0125-PFV	RS70C1E-PFV
REK3-0125-TFC	RS70C1E-TFC
REK3-0125-TFD	RS70C1-TFD
REKQ-0125-PFV	RS70C1E-PFV
REL3-0200-PFV	RR20K1-PFV
RES3-0175-PFV	RR16K1-PFV
REY3-0175-PFV	RR17K1-PFV
REY3-0175-TFC	RR17K1-TFC
REZ3-0125-PFV	RR12K1-PFV
RF18C1E-IAA	RF18C2E-IAA
RF18C1E-IAV	RF18C2E-IAV
RF18C2E-IAA	RF18C2E-IAA
RF18C2E-IAV	RF18C2E-IAV
RR10K1E-CAV	RR10K2E-CAV
RR10K2E-CAA	RR10K2E-CAA
RR10K2E-CAV	RR10K2E-CAV
RR12K1-PFV	RR12K1-PFV
RR14K1-PFV	RR14K1-PFV
RR16K1-PFV	RR16K1-PFV
RR17K1-PFV	RR17K1-PFV
RR17K1-TFC	RR17K1-TFC
RR20K1-PFV	RR20K1-PFV
RR81C1E-IAA	RR81C2E-IAA
RR81C1E-IAV	RR81C2E-IAV
RR81C2E-IAA	RR81C2E-IAA
RR81C2E-IAV	RR81C2E-IAV
RRG4-0100-PAA	RS64C2E-PAA
RRG4-0100-PAV	RS64C2E-CAV
RRK4-0126-PAA	RS70C1-PAA
RRL4-0100-CAV	RR10K2E-CAV
RRL6-0100-CAA	RR10K2E-CAA
RRS4-0075-IAA	RR81C2E-IAA
RRS40075-IAV	RR81C2E-IAV
RS40C1E-IAA	RS40C2E-IAA
RS40C1E-IAV	RS40C2E-IAV
RS40C2E-IAA	RS40C2E-IAA
RS40C2E-IAV	RS40C2E-IAV
RS40C2E-IAA	R40C2-IAA
RS43C1E-CAA	RS43C2E-CAA
RS43C1E-CAV	RS43C2E-CAV
RS43C1E-IAA	RS43C2E-IAA
RS43C1E-IAV	RS43C2E-IAV
RS43C2E-CAA	RS43C2E-CAA
RS43C2E-CAV	RS43C2E-CAV
RS43C2E-IAA	RS43C2E-IAA
R43C2E-IAV	RS43C2E-IAV
RS47C2-IAA	RS47C2-IAA
RS47C2-IAV	RS47C2-IAV

**Copeland**<sup>®</sup> Copeland to Copeland Quick Reference  
brand products

Copeland Model	Copeland Replacement Model
RS54C1E-IAA	RS54C2E-IAA
RS54C1E-IAV	RS54C2E-IAV
RS54C2E-IAA	RS54C2E-IAA
RS54C2E-IAV	RS54C2E-IAV
RS55C1E-CAV	RS55C2E-CAV
RS55C1E-PAA	RS55C2E-CAA
RS55C1E-PAV	RS55C2E-CAV
RS55C2-CAA	RS55C2E-CAA
RS55C2E-CAA	RS55C2E-CAA
RS55C2E-CAV	RS55C2E-CAV
RS64C1E-CAA	RS64C2E-CAA
RS64C1E-CAV	RS64C2E-CAV
RS64C1E-IAA	RS64C2E-CAA
RS64C1E-IAV	RS64C2E-IAV
RS64C1E-PAA	RS64C2E-PAA
RS64C2-CAA	RS64C2E-CAA
RS64C2-CAV	RS64C2E-CAV
RS64C2E-CAA	RS64C2E-CAA
RS64C2E-CAV	RS64C2E-CAV
RS64C2E-IAA	RS64C2E-IAA
RS64C2E-IAV	RS64C2E-IAV
R64C2E-PAA	R64C2E-PAA
RS64C2-IAA	RS64C2-IAA
RS64C2-IAV	RS64C2-IAV
RS64C2-PAA	RS64C2-PAA
RS70C1E-PFV	RS70C1E-PFV
RS70C1E-TFC	RS70C1E-TFC
RS70C1-PAA	RS70C1-PAA
RS70C1-PFV	RS70C1-PFV
RS70C1-TFC	RS70C1-TFC
RS70C1-TFD	RS70C1-TFD
RS80C1E-CAA	RS80C1E-CAA
RS80C1E-CAV	RS80C1E-CAV
RS80C1E-TF5	RS80C1E-TF5
RS80C1E-TFD	RS80C1E-TFD
RS80C2-CAV	RS80C2-CAV
RS80C2E-CAA	RS80C2E-CAA
RS80C2E-CAV	RS80C2E-CAV
RS80C2E-TF5	RS80C2E-TF5
RS80C2E-TFD	RS80C2E-TFD
RS86C1E-PFV	RS86C2E-PFV
RS86C2E-PFV	RS86C2E-PFV
RS97C1E-CAA	RS97C2E-CAA
RS97C1E-CAV	RS97C2E-CAV
RS97C1E-TFC	RS97C2E-TFC
RS97C2-CAV	RS97C2E-CAV
RS97C2E-CAA	RS97C2E-CAA

Copeland Model	Copeland Replacement Model
RS97C2E-CAV	RS97C2E-CAV
RS97C2E-TFC	RS97C2E-TFC
RSE4-0075-IAA	RS47C2-IAA
RSE4-0075-IAV	RS47C2-IAV
RSE4-0076-IAA	RS47C2-IAA
RSE4-0076-IAV	RS47C2-IAV
RSF2-0050-IAA	RS40C2E-IAA
RSF2-0050-IAV	RS40C2E-IAV
RSF5-0075-CAA	RS55C2E-CAA
RSL2-0075-IAA	RS54C2E-IAA
RSL2-0075-IAV	RS54C2E-IAV
RSL2-0100-CAA	RSL2-0100-CAA
RSL2-0101-CAA	RS97C2E-CAA
RSL2-0101-CAV	RS97C2E-CAV
RSL4-0175-PFV	RR17K1-PFV
RSL4-0175-TFC	RSL4-0175-TFC
RSL5-0100-CAV	RS97C2E-CAV
RSL5-0100-TFC	RS97C2E-TFC
RSL5-0101-CAV	RS97C2E-CAV
RSL5-0101-TFC	RS97C2E-TFC
RSN2-0050-IAA	RS40C2E-IAA
RSN2-0050-IAV	RS40C2E-IAV
RSN4-0050-IAA	RS40C2E-IAA
RSN4-0050-IAV	RS40C2E-IAV
RSN4-0075-CAV	RS64C2E-CAV
RSN4-0075-IAA	RS64C2E-CAA
RSN4-0075-IAV	RS64C2E-IAV
RSN4-0075-PAA	RS64C2E-PAA
RSN4-0100-CAV	RS64C2E-CAV
RSN4-0100-PAA	RS64C2E-PAA
RSN5-0075-CAA	RS64C2E-CAA
RSN5-0075-IAA	RS64C2E-CAA
RSN5-0075-IAV	RS64C2E-IAV
RSN6-0075-CAA	R64C2E-CAA
RSN6-0075-IAA	RS64C2E-CAA
RSN6-0075-IAV	RS64C2E-IAV
RSU4-0050-CAA	RS43C2E-CAA
RSU4-0050-IAA	RS43C2E-IAA
RSU5-0050-IAA	RS43C2E-IAA
RSU5-0050-IAV	RS43C2E-IAV

**Copeland®** Copeland to Copeland Quick Reference  
brand products
**"J" to "A" Adapter Kits Guide**

Copeland Model	Copeland Replacement Model	J Model Being Replaced*	Base Adapter & Conduit Kit	Conduit Box Kit	Base Adapter Kit
JF10C1E-IAA	AFE10C3E-IAA	Weld Nuts (No Base) 4.8" x 8" base 7" x 7" base 5" x 7" base	934-0001-02	962-0001-02	998-0527-03
JFB1-0033-IAA	ARE41C3-IAA		934-0001-00	962-0001-02	998-0527-01
JR26C1E-IAA	ARE27C3E-IAA		934-0001-01	962-0001-02	527-0174-00
JR36C1E-IAA	ARE37C3E-IAA		934-0001-00	962-0001-02	998-0527-01
JR36C1E-IAV	ARE37C3E-IAV				
JRE1-0033-IAA	ARE37C3-IAA				
JRN1-0025-IAA	ARE27C3-IAA				
JS19C1E-IAA	ASE19C3E-IAA				
JS25C1E-IAA	ASE24C3E-IAA				
JSS5-0050-IAA	ARE43C3-IAA				

JF11C1E-IAA	AFT12C1E-IAA	Weld Nuts (No Base) 4.8" x 8" base 7" x 7" base 5" x 7" base	934-0001-08	962-0001-01	998-0527-04
JFH1-0033-IAA	AFT12C1-IAA		Not Required	962-0001-01	Not Required
JFH1-0033-SAA	AFT12C1-IAA		934-0001-07	962-0001-01	998-0527-00
JR53C1E-IAA	ART51C1E-IAA		934-0001-06	962-0001-01	998-0527-02
JR53C1E-IAV	ART51C1E-IAV				
JRL4-0050-IAA	ART51C1-IAA				
JRL4-0050-IAV	ART51C1-IAV				

JRE1-0050-IAA	ARE59C3-CAA	Weld Nuts (No Base) 4.8" x 8" base 7" x 7" base 5" x 7" base	Not Required	Not Required	998-0527-03
JRE1-0050-IAV	ARE59C3-CAV		Not Required	Not Required	998-0527-01
JRS4-0050-IAA	ARE47C3-IAA		Not Required	Not Required	527-0174-00
JSE5-0051-CAA	ARE59C3-CAA		Not Required	Not Required	998-0527-01
JSE5-0051-PAV	ARE59C3-CAV				

JRF4-0050-IAA	ART69C1-IAA	Weld Nuts (No Base) 4.8" x 8" base 7" x 7" base 5" x 7" base	Not Required	Not Required	998-0527-04
JRF4-0050-IAV	ART69C1-IAV		Not Required	Not Required	Not Required
JRF4-0075-PAA	ART69C1-IAA		Not Required	Not Required	998-0527-00
JRF4-0075-PAV	ART69C1-IAV		Not Required	Not Required	998-0527-02
JRG4-0100-PAV	ART97C1-PAV				
JRH4-0100-PAA	ART97C1-PAA				
JRH4-0100-PAV	ART97C1-PAV				
JRL4-0100-PAA	ART97C1-PAA				
JRL4-0100-PAV	ART97C1-PAV				
JSH5-0075-CAA	ART97C1-PAA				
JSH5-0075-PAV	ART97C1-PAV				
JSL5-0075-CAA	ART97C1-PAA				
JSL5-0075-PAV	ART97C1-PAV				

JS35C1E-CAA	ASE32C3E-CAA	Weld Nuts (No Base) 4.8" x 8" base 7" x 7" base 5" x 7" base	934-0001-05	962-0001-00	998-0527-04
JS35C1E-CAV	ASE32C3E-CAV		Not Required	962-0001-00	Not Required
JS55C1E-CAA	AST54C1E-CAA		934-0001-04	962-0001-00	998-0527-00
			934-0001-03	962-0001-00	998-0527-02
JFB1-0033-IAV	No Replacement				
JFP1-0050-IAA	RS40C2-IAA				

\* When replacing a J adaptor kit ask the following questions.

- (1) What is the base arrangement on the J?
- (2) Does the J have a conduit?



**Tecumseh to Copeland Quick Reference**

Tecumseh Model	Old Tecumseh Model	Copeland Replacement Model
AB5515G		RR14K1-PFV
AB5515H		RR14K1-PFV
AB5517G		RR16K1-PFV
AB5517H		RR16K1-PFV
AB5519F		CRA1-0150-PFV
AB5519G		CRA1-0150-PFV
AB5519H		CRA1-0150-PFV
AB5520F		CRB1-0175-PFV
AB5520G		CRB1-0175-PFV
AB5520H		CRB1-0175-PFV
AB5522F		CRC1-0175-PFV
AB5522G		CRC1-0175-PFV
AB5522H		CRC1-0175-PFV
AB5524F		CRD1-0200-PFV
AB5524G		CRD1-0200-PFV
AB5524H		CRD1-0200-PFV
AB5528G		CRE2-0225-PFV
AB5528H		CRE2-0225-PFV
AB5530G		CRF2-0250-PFV
AB5530H		CRF2-0250-PFV
AE1410A		ARE27C3-IAA
AE1411D		ARE27C3-IAA
AE1413A		ARE37C3-IAA
AE1413D		ARE37C3-IAA
AE1415B		ARE41C3-IAA
AE2410A		ARE27C3-IAA
AE2413A		ARE37C3-IAA
AE2415A		ARE41C3-IAA
AE3430A		ARE25C3-SAA
AE3440D		ARE37C3-IAA
AE3448A		ARE37C3-IAA
AE41		ARE25C3-SAA
AE4430		ARE25C3-SAA
AE4448A		ARE37C3-IAA
AE5470E		ARE59C3-CAA
AEA0415EXA		No Replacement
AEA0415ZX	AE0415ZX	ASB14C3E-IAA
AEA1336AXA	AE1336A	ARB10C3-SAA
AE1343AXA	AE1343A	ARB13C3-SAA
AEA1360AXA	AE1360A	ARE25C3-SAA
AEA1380AXA	AE1380A	ARE27C3-SAA
AEA1410AXA	AE1410A	ARE37C3-SAA
AEA1411EXA	AE1411E	No Replacement
AEA1413AXA	AE1413A	ARE41C3-IAA
AEA1415EXA	AE1415E	No Replacement
AEA2380ZX	AE2380Z	No Replacement
AEA2410AXA	AE2410A	ARE37C3-IAA
AEA2410YXA	AE2410Y	AFE10C3E-IAA
AEA2411ZX	AE2411Z	AFE11C3E-IAA
AEA2413AXA	AE2413A	ARE41C3-SAA

Tecumseh Model	Old Tecumseh Model	Copeland Replacement Model
AEA2413YXA	AE2413Y	AFT12C1E-IAA
AEA2415AAB	AE2415A	AFT12C1-IAA
AEA3414AXA	AE3414A	ARB10C3-SAA
AEA3414YXA	AE3414Y	ARB13C3E-SAA
AEA3417AXA	AE3417A	ARB17C3-SAA
AEA3417YXA	AE3417Y	ARB17C3E-SAA
AEA3425AXA	AE3425A	ARE25C3-SAA
AEA3425YXA	AE3425Y	ARE25C3E-SAA
AEA3430AXA	AE3430A	ARE27C3-SAA
AEA3430YXA	AE3430Y	ARE27C3E-SAA
AEA3440YXA	AE3440Y	ARE37C3E-SAA
AEA3448YXA	AE3448Y	ARE41C3E-SAA
AEA4430AXA	AE4430A	ARE27C3-IAA
AEA4430YXA	AE4430Y	ARE27C3E-IAA
AEA4440AXA	AE4440A	ARE37C3-IAA
AEA4440YXA	AE4440Y	ARE41C3E-IAA
AEA4440YXD	AE4440Y	ARE37C3E-IAV
AEA4448AXA	AE4448A	ARE41C3-IAA
AEA4448YXA	AE4448Y	ARE41C3E-IAA
AEA4448YXD	AE4448YXD	ARE41C3E-IAV
AEA9415EXA	AE9415E	No Replacement
AEA9415EXD	AE9415E	No Replacement
AEA9415ZX	AE9415Z	ASB14C3E-IAA
AEA9422EXA	AE9422E	ARE43C3-IAA
AG5546E		CR47KQ-PFV
AG5546H		CR47KQ-PFV
AG5553E		CR53KQ-PFV
AG5553H		CR53KQ-PFV
AG5561E		CRP5-0450-PFV
AG5561H		CRP5-0450-PFV
AG5568E		CRN5-0500-PFV
AGA4534AXN	AG4534A	CS33K3E-PFV
AGA4534AXT	AG4534A	CS33K3E-TF5
AGA5553EXN		CR53KQ-PFV
AGA5553EXT		CR53KQ-PFV
AGA5561EXN		CRN5-0500-PFV
AGA5561EXT		CRN5-0500-TF5
AGA5568EXN		CRN5-0500-PFV
AGA5568EXT		CRN5-0500-TF5
AGC5553EXG		CR53KQ-TFD
AGC5561EXG		CRN5-0500-TFD
AGC5568EXG		CRN5-0500-TFD
AH20L12V		CRB1-0175-PFV
AH22M12V		CRC1-0175-PFV
AH24P12V		CRD1-0200-PFV
AH28Q13V		CRE2-0225-PFV
AH31S13V		CRF2-0250-PFV
AH31T13		CRF2-0250-PFV
AH34X13		CR33KQ-PFV
AH40X15		CR37KQ-PFV



## Tecumseh to Copeland Quick Reference

Tecumseh Model	Old Tecumseh Model	Copeland Replacement Model
AH5520E		CRB1-0175-PFV
AH5522E		CRC1-0175-PFV
AH5524E		CRD1-0200-PFV
AH5527E		CRE2-0225-PFV
AH5531E		CRF2-0250-PFV
AH5533E		CR33KQ-PFV
AH5534E		CR33KQ-PFV
AH5540E		CR37KQ-PFV
AH8524E		CRC1-0175-PFV
AH8526E		CRD1-0200-PFV
AH8529E		CRD1-0200-PFV
AH8532E		CRE2-0225-PFV
AH8538E		CR33KQ-PFV
AH8539E		CR34KQ-PFV
AH8543E		CR34KQ-PFV
AH8548E		CR41KQ-PFV
AHA2465ZXB	AH2465Z	CF06K6E-PFV
AHA2465ZXF	AH2465Z	CF06K6E-TF5
AHA2490ZXD	AH2490Z	CF09K6E-PFV
AHA2490ZXF	AH2490Z	CF09K6E-TF5
AHA4518AXD	AH4518A	CS18K6E-PFV
AHA4518AXF	AH4518A	CS18K6E-TF5
AHA4518AXG	AH4518A	CS18K6E-TFD
AHA4520EXD	AH4520E	RR17K1-PFV
AHA4520EXF	AH4520E	RR17K1-TFC
AHA4524EXD	AH4524E	CRD1-0200-PFV
AHA4524EXF	AH4524E	CRD1-0200-TF5
AHA4525AXD	AH4525A	CS20K6E-PFV
AHA4525AXF	AH4525A	CS20K6E-TF5
AHA4525AXG	AH4525A	CS20K6E-TFD
AHA4531EXD	AH4531E	CR34KQ-PFV
AHA4531EXF	AH4531E	CR34KQ-TF5
AHA4540EXD	AH4540E	CR41KQ-PFV
AHA4540EXF	AH4540E	CR41KQ-TF5
AHA7480AXD	AH7480A	CS14K6E-PFV
AHA7480AXF	AH7480A	CS14K6E-TF5
AHA7511AXF	AH7511A	CS20K6E-TF5
AHA7511AXF	AHA7513ZXF	CS20K6E-TF5
AHA7511AXF	AH7513Z	CS20K6E-TF5
AHA7513ZXD	AH7513Z	CS12K6E-PFV
AHA7513ZXD	AHA7515JXB	CS12K6E-PFV
AHA7513ZXD	AH7515J	CS12K6E-PFV
AHA7514AXD	AH7514A	CS27K3E-PFV
AHA7514AXF	AH7514A	CS27K3E-TF5
AHA7521ZXD	AH7521Z	CS20K6E-PFV
AHA7521ZXD	AHA7524JXB	CS20K6E-PFV
AHA7521ZXD	AH7524J	CS20K6E-PFV
AHA7521ZXF	AH7521Z	CS20K6E-TF5
AHA7521ZXF	AHA7524JXF	CS20K6E-TF5
AHA7521ZXF	AH7524J	CS20K6E-TF5

Tecumseh Model	Old Tecumseh Model	Copeland Replacement Model
AHB7511AXD	AH7511B	CS20K6E-PFV
AJ14		ART69C1-IAA
AJ16		ART82C1-CAA
AJ1P13		RR12K1-PFV
AJ1R12		RR12K1-PFV
AJ2416		ARE41C3-IAA
AJ2416B		ARE41C3-IAA
AJ4		ART69C1-IAA
AJ4443A		ARE37C3-IAA
AJ4461A		ART51C1-IAA
AJ4461B		ART51C1-IAA
AJ4492E		RR81C2E-IAA
AJ4512A		RR10K2E-CAA
AJ5470E		ART69C1-IAA
AJ5471E		ART69C1-IAA
AJ5478E		ART69C1-IAA
AJ5512G		RR12K1-PFV
AJ5513E		RR12K1-PFV
AJ5513F		RR12K1-PFV
AJ5514E		RS70C1E-PFV
AJ5515E		RS70C1E-PFV
AJ5515F		RS70C1E-PFV
AJ5517E		RR16K1-PFV
AJ5517G		RR16K1-PFV
AJ5518E		CRA1-0150-PFV
AJ8494		ART69C1-IAA
AJ8514E		RR12K1-PFV
AJ8516E		RS70C1E-PFV
AJ8520E		CRA1-0150-PFV
AJA1420EXA	AJ1420E	No Replacement
AJA2419ZXA	AJ2419Z	AFT22C1E-IAA
AJA2425AXA	AJ2425A	AFJ23C1-IAA
AJA2425AXD	AJ2425A	RF18C2E-IAV
AJA2425ZXA	AJ2425Z	AFT26C1E-CFA
AJA2425ZXD	AJ2425Z	AFT26C1E-CFV
AJA4461AXA	AJ4461A	ART62C1-IAA
AJA4461AXD	AJ4461A	ART64C1E-IAV
AJA4492AXA	AJ4492A	ARJ84C1-IAA
AJA4492AXD	AJ4492A	ARJ84C1-IAV
AJA4492YXA	AJ4492YA	RR81C2E-IAA
AJA4492YXD	AJ4492Y	ARJ84C1E-IAV
AJA4512AXD	AJ4512A	ARJ11K1-CAV
AJA4512YXD	AJ4512Y	CS10K6E-PFV
AJA5517EXD		CR16K6-PFV
AJA7441AXA	AJ7441A	RS40C2E-IAA
AJA7441AXD	AJ7441A	RS40C2E-IAV
AJA7461YXA	AJ7461Y	RS54C2E-IAA
AJA7461YXD	AJ7461Y	RS54C2E-IAV
AJA7494ZXD	AJ7494Z	CS10K6E-PFV
AJA9484EXD	AJ9484E	RS97C2E-CAV



**Tecumseh to Copeland Quick Reference**

Tecumseh Model	Old Tecumseh Model	Copeland Replacement Model
AJB7465AXD	AJ7465B	CS14K6E-PFV
AJB7510JXD	AJ7510K	CS12K6E-PFV
AJC5519EXD		CRB1-0175-PFV
AJK8494E		ART82C1-CAA
AJR15		RR16K1-PFV
AJT15		CRA1-0150-PFV
AK5438E		ART82C1-CAA
AK5470E		ARE59C3-CAA
AK847SE		ARE59C3-CAA
AK8483E		ART69C1-IAA
AK8514E		RR12K1-PFV
AK8515E		RR12K1-PFV
AK9441		ARE27C3-IAA
AKA4460YXA	AK4460Y	ART62C1E-IAA
AKA4460YXD	AK4460Y	ART62C1E-IAV
AKA4476YXA	AK4476Y	ART64C1E-IAA
AKA4476YXD	AK4476Y	ART64C1E-IAV
AKA9427ZXA	AK9427Z	ASE24C3E-IAA
AKA9427ZXD	AK9427Z	ASE24C3E-IAV
AKA9428EXA	AK9428E	ARE59C3-CAA
AKA9428EXD	AK9428E	ARE59C3-CAV
AKA9434AXA	AK9434A	ART64C1E-IAA
AKA9438ZXA	AK9438Z	AST40C1E-IAA
AKA9438ZXD	AK9438Z	AST40C1E-IAV
AKA9441AXA	AK9441A	RS40C2E-IAA
AKA9442EXA	AK9442E	ART97C1-PAA
AKA9442EXD	AK9442E	ART97C1-PAV
AKA9451ZXA	AK9451Z	AST54C1E-IAA
AKA9451ZXD	AK9451Z	AST54C1E-CAV
AKA9455EXA	AK9455E	ART97C1-PAA
AKA9455EXD	AK9455E	RS64C2E-IAV
AKA9455ZXA	AK9455Z	AST54C1E-CAA
AKA9455ZXD	AK9455Z	AST54C1E-CAV
AKA9458JXA	AK9458J	RS64C2E-CAA
AKA9458JXD	AK9458J	RS64C2E-IAV
AKA9462EXD	AK9462E	RS64C2E-IAV
AKA9462ZXA	AK9462Z	RS64C2E-CAA
AKA9462ZXD	AK9462Z	RS64C2E-IAV
AKA9466JXA	AK9466J	RS80C2E-CAA
AKA9466JXD	AK9466J	RS80C2E-CAV
AKA9474JXD	AK9474J	RS86C2E-PFV
AP3311		ARE27C3-IAA
AP4111		ARE25C3-SAA
AP43		ARE27C3-IAA
AR43		ARE27C3-IAA
AT34		ARE27C3-IAA
AT3512		ARE41C3-IAA
AT3J12		AR41C3-IAA
AT43		ARE27C3-IAA
AT4C		ARE25C3-SAA

Tecumseh Model	Old Tecumseh Model	Copeland Replacement Model
AU14		ART69C1-IAA
AU16		ART82C1-CAA
AU4		ART69C1-IAA
AUR13		RS70C1E-PFY
AV5532E		CRF2-0250-PFV
AV5535E		CR34KQ-PFV
AV5538E		CR37KQ-PFV
AV5542E		CR41KQ-PFV
AV5546E		CR47KQ-PFV
AVA2490ZXN		CF09K6E-PFV
AVA2490ZXT		CF09K6E-TF5
AVA2512ZXG		CS33K3E-TFD
AVA2512ZXN		CF12K6E-PFV
AVA2512ZXT		CF12K6E-TF5
AVA5532EXN		CR33KQ-PFV
AVA5535EXN		CR36KQ-PFV
AVA5535EXT		CR36KQ-TF5
AVA5538EXG		CR37KQ-TFD
AVA5538EXN		CR37KQ-PFV
AVA5538EXT		CR37KQ-TF5
AVA5542EXG		CR41KQ-TFD
AVA5542EXN		CR41KQ-PFV
AVA5542EXT		CR41KQ-TF5
AVA5546EXG		CR47KQ-TFD
AVA5546EXN		CR47KQ-PFV
AVA5546EXT		CR47KQ-TF5
AVA7524ZXT		CS27K3E-TF5
AVD5558EXG		CRN5-0500-TFD
AVD5558EXN		CRN5-0500-PFV
AVD5558EXT		CRN5-0500-TF5
AW5517		CRA1-0150-PFV
AW5519		CRB1-0175-PFV
AW5520		CRB1-0175-PFV
AW5522		CRC1-0175-PFV
AW5524		CRD1-0200-PFV
AW5528		CRF2-0250-PFV
AW5530		CRF2-0250-PFV
AW5532		CR33KQ-PFV
AWA2440ZXA		No Replacement
AWA2440ZXD		AFJ37C1E-CFV
AWA2440ZXT		CF04K6E-TF5
AWA2460ZXD		CF06K6E-PFV
AWA2460ZXT		CF06K6E-TF5
AWA7512ZXD		CS12K6E-PFV
AWA7512ZXT		CS12K6E-TF5
AWA7515ZXD		CS14K6E-PFV
AWF5524EXG		CRD1-0200-TFD
AWF5524EXT		CRD1-0200-TF5
AWF5530EXG		CRF1-0250-TFD
AWF5530EXT		CRF1-0250-TF5



## Tecumseh to Copeland Quick Reference

Tecumseh Model	Old Tecumseh Model	Copeland Replacement Model
AWG4520EXN		CRC1-0175-PFV
AWG4524EXN		CRD1-0200-PFV
AWG5519EXN		CRB1-0175-PFV
AWG5520EXT		CRC1-0175-TF5
AWG5524EXN		CRD1-0200-PFV
AWG5524EXT		CRD1-0200-TF5
AWG5528EXN		CRE2-0225-PFV
AWG5530EXN		CRF2-0250-PFV
B02A		CRD1-0200-PFV
B02B		CRE2-0225-PFV
B1516		RR12KQ-PFV
B1616		RS70C1E-PFV
B1T16		RR10K2E-CAA
B21T18		CRC1-0175-PFV
B21U18		CRD1-0200-PFV
B2513		ART51C1-IAA
B2516		RS40C2E-IAA
B32P16		CRA1-0150-PFV
B74P18		CRA1-0150-PFV
B74T16		CRB1-0175-PFV
B7616		RR81C2E-IAA
B8413		ART69C1-IAA
BB5512E		RR12K1PFV
C14		ARE37C3-IAA
C2513		ART51C1-IAA
C2516		RS40C2E-IAA
C3311		ARE27C3-IAA
C34		ARE27C3-IAA
C3N16		ARE41C3-IAA
C41		ARE25C3-SAA
C4111		ARE25C3-SAA
C43		ARE27C3-IAA
C4414		ARE25C3-SAA
C4416		ARE27C3-IAA
C4C		ARE25C3-SAA
C4J34		ARE37C3-IAA
C5540E		CR37KQ-PFV
C7616		RR81C2E-IAA
C7P16		RS54C2E-IAA
CAJ2612		ART51C1-IAA
CAJ2P		ART51C1-IAA
CAJR13		RR81C2E-IAA

Tecumseh Model	Old Tecumseh Model	Copeland Replacement Model
CAT3512		ARE41C3-IAA
CAT3J12		ARE41C3-IAA
CL26X12		CRF2-0250-PFV
CL31Y14		CR37KQ-PFV
CL32ZA14		CR37KQ-PFV
CL36ZC14		CR41KQ-PFV
CL41ZA17		CR47KQ-PFV
CL51ZH17		CRP5-0450-PFV
CL5538E		CR37KQ-PFV
CL5544G		CR41KQ-PFV
CL5550E		CR47KQ-PFV
CL5562E		CRP5-0450-PFV
JA150		CRA1-0150-PFV
JE300		CR34KQ-PFV
PFB400		CR47KQ-PFV
PFB403		CR47KQ-PFV
PFB500		CRN5-0500-PFV
PFB503		CRN5-0500-PFV
PJE300		CR37KQ-PFV
RK5480		ART82C1-CAA
RK5513		RR12K1-PFV
RK5515		RR14K1-PFV
RK5518		CRA1-0150-PFV
S1N14		ARE37C3-IAA
S2516		ART51C1-IAA
S3N16		ARE41C3-IAA
S4414		ARE25C3-SAA
S4416		ARE27C3-IAA
S7N16		ART69C1-IAA
S7R16		ART82C1-CAA



**Bristol to Copeland Quick Reference**

Bristol Model	New Bristol Model	Copeland Replacement Model
H10A253BBC*		CS20K6E-PFV
H10B103BBC*		ARJ84C1-IAV
H10B123BBC*		ARJ11K1E-IAV
H10B183BBC*		CS14K6E-PFV
H10B612EBA*		ART51C1-IAA
H10B612EBC*		ART51C1-IAV
H10H302*		ARE27C3E-IAA
H10H382*		ARE27C3-IAA
H13A253BBC*		CS20K6E-PFV
H13A343BBC*		CS27K3E-PFV
H13A393BBC*		CS33K3E-PFV
H13A393DBE*		CS33K3E-TFD
H13A393DBL*		CS33K3E-TF5
H1NB113ABA*		ARJ84C1-IAA
H20A303*		CRF2-0250-PFV
H20A323*		CRF2-0250-PFV
H20A343*		CR33KQ-PFV
H20A353*		CR34KQ-PFV
H20A403*		CR37KQ-PFV
H20B153ABC*		CR16K6-PFV
H20B173ABC*		CR16K6-PFV
H20B193ABC*		CRA1-0150-PFV
H20B203ABC*		CRB1-0175-PFV
H20B213*		CRB1-0175-PFV
H20B223*		CRC1-0175-PFV
H20B243ABC*		CRC1-0175-PFV
H20B263*		CRD1-0200-PFV
H20B283ABC*		CRE2-0225-PFV
H20B293*		CRE2-0225-PFV
H20B313*		CRF2-0250-PFV
H20C233ABC*		CRC1-0175-PFV
H20C303ABC*		CRF2-0250-PFV
H20C343ABC*		CR34KQ-PFV
H20C343DBE*		CR34KQ-TFD
H20C343DBL*		CR34KQ-TF5
H20C373ABC*		CR37KQ-PFV
H20C373DBE*		CR37KQ-TFD
H20C373DBL*		CR37KQ-TF5
H20C403ABC*		CR41KQ-PFV
H20C403DBE*		CR41KQ-TFD
H20C403DBL*		CR41KQ-TF5
H20C423ABC*		CR41KQ-PFV
H20C423DBE*		CR41KQ-TFD
H20C423DBL*		CR41KQ-TF5
H20C453*		CR41KQ-PFV
H20C523*		CR53KQ-PFV
H20R453ABC*		CR47KQ-PFV
H20R453DBE*		CR47KQ-TFD
H20R453DBL*		CR47KQ-TF5

Bristol Model	New Bristol Model	Copeland Replacement Model
H20R483ABC*		CR47KQ-PFV
H20R483DBE*		CR47KQ-TFD
H20R483DBL*		CR47KQ-TF5
H20R513ABC*		CR47KQ-PFV
H20R583ABC*		CRP5-0450-PFV
H20R583DBE*		CRP5-0450-TFD
H20R583DBL*		CRP5-0450-TF5
H20R603ABC*		CRN5-0500-PFV
H20R603DBE*		CRP5-0450-TFD
H20R603DBL*		CRP5-0450-TF5
H21A273*		CRE2-0225-PFV
H21A293*		CRE2-0225-PFV
H21A313ABC*		CR33KQ-PFV
H21A313DBE*		CR33KQ-TFD
H21A313DBL*		CR33KQ-TF5
H21A343ABC*		CR34KQ-PFV
H21A343DBE*		CR34KQ-TFD
H21A343DBL*		CR34KQ-TF5
H21A373ABC*		CR37KQ-PFV
H21A373DBE*		CR37KQ-TFD
H21A373DBL*		CR37KQ-TF5
H21A413ABC*		CR41KQ-PFV
H21A413DBE*		CR41KQ-TFD
H21A413DBL*		CR41KQ-TF5
H21A4693ABC*		CR47KQ-PFV
H21A463DBE*		CR47KQ-TFD
H21A463DBL*		CR47KQ-TF5
H21B133ABC*		RR12K1-PFV
H21B153*		RR14K1-PFV
H21B173*		CRA1-0150-PFV
H21B193*		CRA1-0150-PFV
H21B203*		CRB1-0175-PFV
H21B223ABC*		CRB1-0175-PFV
H21B243*		CRD1-0200-PFV
H21B263ABC*		CRE2-0225-PFV
H21B273*		CRE2-0225-PFV
H21B283*		CRE2-0225-PFV
H21B293*		CRF2-0250-PFV
H21C463*		CR47KQ-PFV
H21C533*		CR47KQ-PFV
H21C613*		CRP5-0450-PFV
H21C683*		CRN5-0500-PFV
H21R453ABC*		CR47KQ-PFV
H21R453DBE*		CR47Q-TFD
H21R453DBL*		CR47KQ-TF5
H21R483CBC*		CR47KQ-PFV
H21R483DBE*		CR47KQ-TFD
H21R483DBL*		CR47KQ-TF5
H21R513DBE*		CR47KQ-TFD

\* Designates any letter or number.





## Bristol to Copeland Quick Reference

Bristol Model	New Bristol Model	Copeland Replacement Model
H21R513DBL*		CR47KQ-TF5
H21R583CBC*		CRP5-0450-PFV
H21R583DBE*		CRP5-0450-TFD
H21R583DBL*		CRP5-0450-TF5
H21R603CBC*		CRN5-0500-PFV
H21R603DBE*		CRN5-0500-TFD
H21R603DBL*		CRN5-0500-TF5
H22A273*		CRE2-0225-PFV
H22A293*		CRF2-0250-PFV
H22A313*		CRF2-0250-PFV
H22A353*		CR34KQ-PFV
H22A383*		CR37KQ-PFV
H22A423*		CR41KQ-PFV
H22B153*		RR14K1-PFV
H22B173*		CRA1-0150-PFV
H22B193*		CRA1-0150-PFV
H22B233*		CRC1-0175-PFV
H22B253*		CRD1-0200-PFV
H22C563*		CR53KQPFV
H22C613*		CRN5-0500-PFV
H23A263ABC*		CRE2-0225-PFV
H23A263DBE*		CRE1-0225-TFD
H23A263DBL*		CRE1-0225-TF5
H23A283ABC*		CRE2-0225-PFV
H23A303ABC*		CRF2-0250-PFV
H23A303DBE*		CRF1-0250-TFD
H23A303DBL*		CRF1-0250-TF5
H23A323ABC*		CR33KQ-PFV
H23A323DBE*		CR33KQ-TFD
H23A323DBL*		CR33KQ-TF5
H23A353ABC*		CR34KQ-PFV
H23A353DBE*		CR34KQ-TFD
H23A353DBL*		CR34KQ-TF5
H23A35QABC*		CR34KQ-PFV
H23A35QDBE*		CR34KQ-TFD
H23A35QDBL*		CR34KQ-TF5
H23A36QABC*		CR37KQ-PFV
H23A383ABC*		CR37KQ-PFV
H23A383DBE*		CR37KQ-TFD
H23A383DBL*		CR37KQ-TF5
H23A38QDBE*		CR37KQ-TFD
H23A38QDBL*		CR37KQ-TF5
H23A423ABC*		CR41KQ-PFV
H23A423DBE*		CR41KQ-TFD
H23A423DBL*		CR41KQ-TF5
H23A42QABC*		CR41KQ-PFV
H23A42QDBE*		CR41KQ-TFD
H23A42QDBL*		CR41KQ-TF5
H23A463ABC*		CR47KQ-PFV

Bristol Model	New Bristol Model	Copeland Replacement Model
H23A463DBE*		CR47KQ-TFD
H23A463DBL*		CR47KQ-TF5
H23A46QABC*		CR47KQ-PFV
H23A46QDBE*		CR47KQ-TFD
H23A46QDBL*		CR47KQ-TF5
H23A503ABC*		CR47KQ-PFV
H23A503DBE*		CR47KQ-TFD
H23A503DBL*		CR47KQ-TF5
H23A50QABC*		CR53KQ-PFV
H23A50QDBE*		CR47KQ-TFD
H23A50QDBL*		CR47KQ-TF5
H23A543ABC*		CR53KQ-PFV
H23A543DBE*		CR53KQ-TFD
H23A543DBL*		CR53KQ-TF5
H23A54QDBE*		CR53KQ-TFD
H23A54QDBL*		CR53KQ-TF5
H23A563DBE*		CRT5-0450-TFD
H23A563DBL*		CRT5-0450-TF5
H23A56QDBE*		CRT5-0450-TFD
H23A56QDBL*		CRT5-0450-TF5
H23A623ABC*		CRN5-0500-PFV
H23A623DBE*		CRN5-0500-TFD
H23A623DBL*		CRN5-0500-TF5
H23A62QABC*		CRN5-0500-PFV
H23A62QDBE*		CRP5-0450-TFD
H23A62QDBL*		CRP5-0450-TF5
H23B153ABC*		CR16K6-PFV
H23B15QABC8		CR16K6-PFV
H23B15SABC*		CR16K6-PFV
H23B16SABC*		CR16K6-PFV
H23B173ABC*		CR16K6-PFV
H23B17QABC*		CR16K6-PFV
H23B17SABC*		CR16K6-PFV
H23B18SABC*		CRA1-0150-PFV
H23B193ABC*		CRA1-0150-PFV
H23B19QABC*		CRA1-0150-PFV
H23B203ABC*		CRB1-0175-PFV
H23B20QABC*		CRB1-0175-PFV
H23B20QDBL*		CRC1-0175-TF5
H23B20SABC*		CRB1-0175-PFV
H23B223ABC*		CRC1-0175-PFV
H23B223DBL*		CRC1-0175-TF5
H23B22QABC*		CRC1-0175-PFV
H23B22QDBL*		CRC1-0175-TF5
H23B22SABC*		CRC1-0175-PFV
H23B243ABC*		CRD1-0200-PFV
H23B24QABC*		CRD1-0200-PFV
H23B24QDBE*		CRD1-0200-TFD
H23B24QDBL*		CRD1-0200-TF5

\* Designates any letter or number.

**Copeland**  
brand products **Bristol to Copeland Quick Reference**

Bristol Model	New Bristol Model	Copeland Replacement Model
H23B24SABC*		CRD1-0200-PFV
H23B263ABC*		CRE2-0225-PFV
H23B26QABC*		CRE2-0225-PFV
H23B26QDBE*		CRE1-0225-TFD
H23B26QDBL*		CRE1-0225-TF5
H23B26SABC*		CRE2-0225-PFV
H23B283ABC*		CRF2-0250-PFV
H23B283DBE*		CRF1-0250-TFD
H23B283DBL*		CRF1-0250-TF5
H23B28QABC*		CRF2-0250-PFV
H23B28QDBE*		CRE1-0225-TFD
H23B28QDBL*		CRE1-0225-TF5
H23B28SABC*		CRF2-0250-PFV
H23B303ABC*		CRF2-0250-PFV
H23B30QABC*		CRF2-0250-PFV
H23B30QDBE*		CRF1-0250-TFD
H23B30QDBL*		CRF1-0250-TF5
H23B30SABC*		CRF2-0250-PFV
H23B323ABC*		CR33KQ-PFV
H23B323DBE*		CR33KQ-TFD
H23B323DBL*		CR33KQ-TF5
H23B32QABC*		CR33KQ-PFV
H23B32QDBE*		CR33KQ-TFD
H23B32QDBL*		CR33KQ-TF5
H23B32SABC*		CR33KQ-PFV
H23B33SABC*		CR33KQ-PFV
H23B35QDBE*		CR34KQ-TFD
H23B35QDBL*		CR34KQ-TF5
H23B35SABC*		CR34KQ-PFV
H24A383ABC*		CR41KQ-PFV
H24A383DBE*		CR41KQ-TFD
H24A383DBL*		CR41KQ-TF5
H24A423ABC*		CR41KQ-PFV
H24A423DBE*		CR41KQ-TFD
H24A423DBL*		CR41KQ-TF5
H24B13QABC*		RR12K1-PFV
H24B153ABC*		CR16K6-PFV
H24B15QABC*		CR16K6-PFV
H24B17QABC*		CR16K6-PFV
H24B17QDBL*		CRA1-0150-TF5
H24B183ABC*		CRA1-0150-PFV
H24B19QABC*		CRB1-0175-PFV
H24B203ABC*		CRB1-0175-PFV
H24B20QABC*		CRB1-0175-PFV
H24B21QABC*		CRB1-0175-PFV
H24B223ABC*		CRC1-0175-PFV
H24B22QABC*		CRC1-0175-PFV
H24B24QABC*		CRC1-0175-PFV
H24B263ABC*		CRE2-0225-PFV

Bristol Model	New Bristol Model	Copeland Replacement Model
H24B26QABC*		CRE2-0225-PFV
H24B283ABC*		CRF2-0250-PFV
H24B28QABC*		CRE2-0225-PFV
H24B29QABC*		CRF2-0250-PFV
H24B30QABC*		CRF2-0250-PFV
H25A32QCBC*		CR33KQ-PFV
H25A32QDBE*		CR33KQ-TFD
H25A32QDBL*		CR33KQ-TF5
H25A35QCBC*		CR34KQ-PFV
H25A35QDBE*		CR34KQ-TFD
H25A35QDBL*		CR34KQ-TF5
H25A38QCBC*		CR37KQ-PFV
H25A38QDBE*		CR37KQ-TFD
H25A38QDBL*		CR37KQ-TF5
H25A42QCBC*		CR41KQ-PFV
H25A42QDBE*		CR41KQ-TFD
H25A42QDBL*		CR41KQ-TF5
H25A46QCBC*		CR47KQ-PFV
H25A46QDBE*		CR47KQ-TFD
H25A46QDBL*		CR47KQ-TF5
H25A50QCBC*		CR47KQ-PFV
H25A50QDBE*		CR47KQ-TFD
H25A50QDBL*		CR47KQ-TF5
H25A54QCBC*		CR53KQ-PFV
H25A54QDBE*		CR53KQ-TFD
H25A54QDBL*		CR53KQ-TF5
H25A563DBE*		CRT5-0450-TFD
H25A563DBL*		CRT5-0450-TF5
H25A56QDBE*		CRT5-0450-TFD
H25A56QDBL*		CRT5-0450-TF5
H25A62QCBC*		CRN5-0500-PFV
H25A62QDBE*		CRN5-0500-TFD
H25A62QDBL*		CRN5-0500-TF5
H25B15QABC*		CR16K6-PFV
H25B17QABC*		CR16K6-PFV
H25B18QABC*		CRA1-0150-PFV
H25B20QABC*		CRB1-0175-PFV
H25B22QABC*		CRC1-0175-PFV
H25B22QDBL*		CRC1-0175-TF5
H25B24QABC*		CRD1-0200-PFV
H25B24QDBE*		CRD1-0200-TFD
H25B24QDBL*		CRD1-0200-TF5
H25B26QABC*		CRE2-0225-PFV
H25B28QABC*		CRF2-0250-PFV
H25B28QDBE*		CRF1-0250-TFD
H25B28QDBL*		CRF1-0250-TF5
H25B30QABC		CRF2-0250-PFV
H25B30QDBE*		CRF1-0250-TFD
H25B30QDBL*		CRF1-0250-TF5

\* Designates any letter or number.



## Bristol to Copeland Quick Reference

Bristol Model	New Bristol Model	Copeland Replacement Model
H25B32QABC*		CR33KQ-PFV
H25B32QDBE*		CR33KQ-TFD
H25B32QDBL*		CR33KQ-TF5
H25B35QABC*		CR36KQ-PFV
H25B35QDBE*		CR34KQ-TFD
H25B35QDBL*		CR34KQ-TF5
H26A32QCBC*		CRF2-0250-PFV
H26A32QDBE*		CR33KQ-TFD
H26A32QDBL*		CR33KQ-TF5
H26A35QCBC*		CR36KQ-PFV
H26A35QDBE*		CR36KQ-TFD
H26A35QDBL*		CR36KQ-TF5
H26A38QCBC*		CR37KQ-PFV
H26A38QDBE*		CR37KQ-TFD
H26A38QDBL*		CR37KQ-TF5
H26A42QCBC*		CR41KQ-PFV
H26A42QDBE*		CR41KQ-TFD
H26A42QDBL*		CR41KQ-TF5
H26A46QDBE*		CR47KQ-TFD
H26A46QDBL*		CR47KQ-TF5
H26A50QCBC*		CR47KQ-PFV
H26A50QDBE*		CR47KQ-TFD
H26A50QDBL*		CR47KQ-TF5
H26A54QDBE*		CR53KQ-TFD
H26A54QDBL*		CR53KQ-TF5
H26A56QDBE*		CRT5-0450-TFD
H26A56QDBL*		CRT5-0450-TF5
H26A62QDBE*		CRN5-0500-TFD
H26A62QDBL*		CRN5-0500-TF5
H26B15QCBC*		CR16K6-PFV
H26B17QCBC*		CR16K6-PFV
H26B18QCBC*		CRA1-0150-PFV
H26B20QCBC*		CRB1-0175-PFV
H26B22QCBC*		CRC1-0175-PFV
H26B24QCBC*		CRD1-0200-PFV
H26B26QCBC*		CRE2-0225-PFV
H26B28QCBC*		CRF2-0250-PFV
H26B30QCBC*		CRF2-0250-PFV
H27A28QCBC*		CRF2-0250-PFV
H27A32QCBC*		CR33KQ-PFV
H27A32QDBE*		CR33KQ-TFD
H27A32QDBL*		CR33KQ-TF5
H27A35QCBC*		CR36KQ-PFV
H27A35QDBE*		CR36KQ-TFD
H27A35QDBL*		CR36KQ-TF5
H27A38QCBC*		CR37KQ-PFV
H27A38QDBE*		CR37KQ-TFD
H27A38QDBL*		CR37KQ-TF5

Bristol Model	New Bristol Model	Copeland Replacement Model
H27A42QCBC*		CR41KQ-PFV
H27A42QDBE*		CR41KQ-TFD
H27A42QDBL*		CR41KQ-TF5
H27A46QCBC*		CR47KQ-PFV
H27A46QDBE*		CR47KQ-TFD
H27A46QDBL*		CR47KQ-TF5
H27A50QCBC*		CR47KQ-PFV
H27A50QDBE*		CR47KQ-TFD
H27A50QDBL*		CR47KQ-TF5
H27A54QCBC*		CR53KQ-PFV
H27A54QDBE*		CR53KQ-TFD
H27A54QDBL*		CR53KQ-TF5
H27A56QCBC*		CRP5-0450-PFV
H27A56QDBE*		CRP5-0450-TFD
H27A56QDBL*		CRP5-0450-TF5
H27A62QCBC*		CRN5-0500-PFV
H27A62QDBE*		CRN5-0500-TFD
H27A62QDBL*		CRN5-0500-TF5
H27B15QCBC*		CR16K6-PFV
H27B17QCBC*		CRA1-0150-PFV
H27B18QCBC*		CRA1-0150-PFV
H27B20QCBC*		CRC1-0175-PFV
H27B22QCBC*		CRC1-0175-PFV
H27B24QCBC*		CRD1-0200-PFV
H27B26QCBC*		CRE2-0225-PFV
H27B30QCBC*		CRF2-0250-PFV
H27B32QCBC*		CR33KQ-PFV
H27B35QCBC*		CR34KQ-PFV
H29B15UABC*		CR16K6-PFV
H29B16UABC*		CR16K6-PFV
H29B17UABC*		CR16K6-PFV
H29B18UABC*		CRA1-0150-PFV
H29B20UABC*		CRB1-0175-PFV
H29B22UABC*		CRC1-0175-PFV
H29B22UDBL*		CRC1-0175-TF5
H29B24UABC*		CRD1-0200-PFV
H29B24UDBE*		CRD1-0200-TFD
H29B24UDBL*		CRD1-0200-TF5
H29B26UABC*		CRE2-0225-PFV
H29B26UDBE*		CRE1-0225-TFD
H29B26UDBL*		CRE1-0225-TF5
H29B28UABC*		CRF2-0250-PFV
H29B28UDBE*		CRF2-0250-TFD
H29B28UDBL*		CRE1-0225-TF5
H29B30UABC*		CRF2-0250-PFV
H29B30UDBE*		CRF1-0250-TFD
H29B30UDBL*		CRF1-0250-TF5
H29B32UABC*		CR33KQ-PFV
H29B32UDBE*		CR33KQ-TFD

\* Designates any letter or number.

**Copeland**  
brand products **Bristol to Copeland Quick Reference**

Bristol Model	New Bristol Model	Copeland Replacement Model
H29B32UDBL*		CR33KQ-TF5
H29B33UABC*		CR33KQ-PFV
H29B33UDBE*		CR33KQ-TFD
H29B33UDBL*		CR33KQ-TF5
H29B35UABC*		CR36KQ-PFV
H29B35UDBE*		CR34KQ-TFD
H29B35UDBL*		CR34KQ-TF5
H2EA193*		CRA1-0150-PFV
H2EA223*		CRB1-0175-PFV
H2EA253*		CRD1-0200-PFV
H2EA293*		CRE2-0225-PFV
H2EA333*		CR33KQ-PFV
H2EA363*		CR34KQ-PFV
H2EA413*		CR41KQ-PFV
H2EC483*		CR47KQ-PFV
L10H112*		ARE27C3-SAA
L10H132*		ARE37C3-IAA
L1NB262EBA*		AFJ23C1-IAA
L51652DBD*		CS18K6E-TF5
L51652DBE*		CS18K6E-TFD
L51B452BBC*		CS12K6E-PFV
L51B562BBC*		CS14K6E-PFV
L51B562DBE*		CS14K6E-TFD
L51B562DBL*		CS14K6E-TF5
L51B652BBC*		CS18K6E-PFV
L51B652DBD*		CS18K6E-TF5
L51B652DBE*		CS18K6E-TFD
L51B752BBC*		CF06K6E-PFV
L51B752DBL*		CF06K6E-TF5
L53A113BBC*		CF09K6E-PFV
L53A113DBE*		CF09K6E-TFD
L53A113DBL*		CF09K6E-TF5
L61B452BBC*		CS12K6E-PFV
L61B562DBE*		CS14K6E-TFD
L61B562DBL*		CS14K6E-TF5
L61B652BBC*		CS18K6E-PFV
L61B652DBD*		CS18K6E-TF5
L61B652DBE*		CS18K6E-TFD
L61B752BBC*		CF06K6E-PFV
L61B752DBL*		CF06K6E-TF5
L63A113BBC*		CF09K63-PFV
L63A113DBE*		CF09K6E-TFD
L63A113DBL*		CF09K6E-TF5
M10A153DBE*		CS27K3E-TFD
M10A163BBC*		CS33K3E-PFV
M10A163DBL*		CS27K3E-TF5
M13A113BBC*		CS20K6E-PFV
M13A113DBL*		CS20K6E-TF5
M13A143BBC*		CS27K3E-PFV

Bristol Model	New Bristol Model	Copeland Replacement Model
M13A163BBC*		CS33K3E-PFV
M13A163BBC*		CS33K3E-PFV
M13A163DBL*		CS33K3E-TF5
M1N802BBC*		CS14K6E-PFV
M1NB642EBC*		CS12K6E-PFV
M1NB802BBC*		CS14K6E-PFV
M1NB922BBC*		CS18K6E-PFV
M1NB922DBL*		CS14K6E-TF5
M50A273BBC*		CS27K3E-PFV
M50A273DBD*		CS27K3E-TF5
M50B103BBC*		CS12K6E-PFV
M51B163BBC*		CS18K6E-PFV
M51B542BBA*		RS55C2E-CAA
M51B872BBC*		CS10K6E-PFV
M51B872DBL*		CS10K6E-TF5
M52B123BBC*		CS14K6E-PFV
M52B143BBC*		CS14K6E-PFV
M53A223BBC*		CS27K3E-PFV
M53A27DBD*		CS27K3E-TF5
M53A27DBE*		CS27K3E-TFD
M53A303BBC*		CS33K3E-PFV
M53A303DBL*		CS33K3E-TF5
M53B103BBC*		CS12K6E-PFV
M53B143BBC*		CS14K6E-PFV
M53B143DBD*		CS14K6E-TF5
M53B163BBC*		CS18K6E-PFV
M53B203BBC*		CS20K6E-PFV
M53B203DBD*		CS20K6E-TF5
M53B982BBC*		CS10K6E-PFV
M61B123BBC*	M51B123BBC*	CS14K6E-PFV
M61B123DBE*	M51B123DBE*	CS14K6E-TFD
M61B123DBL*	M51B123DBL*	CS14K6E-TF5
M61B143BBC*	M51B143BBC*	CS18K6E-PFV
M61B143DBE*	M51B1543DBE*	CS14K6E-TFD
M61B143DBL*	M51B143DBL*	CS14K63-TF5
M63A273BBC*	M53A273BBC*	CS27K3E-PFV
M63A273DBD*	M53A273DBD*	CS27K3E-TF5
M63A273DBE*	M53A273DBE*	CS27K3E-TFD
M65972BBC*		CS10K6E-PFV
M65B133BBC*		CS14K6E-PFV
M65B163BBC*		CS18K6E-PFV
M65B163DBE*		CS18K6E-TFD
M65B163DBL*		CS18K6E-TF5
M65B203BBC*		CS20K6E-PFV
M65B203DBL*		CS20K6E-TF5
M66A323BBC*		CS33K3E-PFV
M66A323DBE*		CS33K3E-TFD
M66A323DBL*		CS33K3E-TF5

\* Designates any letter or number.

**Copeland** brand products **A Compressors**



- Single cylinder 1/8 to 1 horsepower.
- R-12, R-22, R-134a, R-404A, R-502.
- Low, medium, and high temperature applications.
- High and low starting torque.
- Relay and capacitor shipped with compressor.
- Sweat stub tube for most models.
- Low sound, high reliability.
- Copeland replacement for J body.
- Excellent replacement for Tecumseh AEA compressors.
- Applications: reach-ins, vending, lab equipment, small freezers, and M line condensing units.

Model Number	Dimensions (In.)			Weight (Lbs.)	Suction	Discharge	Oil Type	BTU	Displacement	4 Year Warranty Extension
	L	W	H							
AFE12C4E-IAA-959	10.50	6.40	8.12	30	5/16 Stub	1/4 Stub	POE	1325	124.64	60.00
AFE17C4E-IAA-901	10.50	6.40	8.12	25.6	5/16 Stub	1/4 Stub	POE	1700	89.90	70.00
ARE25C3E-SAA-901	10.50	6.40	7.40	25.1	5/16 Stub	1/4 Stub	POE	2460	59.40	35.00
ARE29C4-IAA-901	10.50	6.40	7.38	22.9	5/16 Stub	1/4 Stub	AB	2630	62.33	35.00
ARE29C4-IAA-959	10.50	6.40	7.38	22.9	5/16 Stub	1/4 Stub	AB	2630	62.33	45.00
ARE40C4-IAA-901	10.50	6.40	7.88	24.3	5/16 Stub	1/4 Stub	AB	3620	9938.18	35.00
ARE40C4-IAA-959	10.50	6.40	7.88	24.3	5/16 Stub	1/4 Stub	AB	3620	9938.18	45.00
ARE51C4-CAA-901	10.50	6.40	8.12	22.9	5/16 Stub	1/4 Stub	AB	4600	59.75	60.00
ARE51C4-CAA-959	10.50	6.40	8.12	22.9	5/16 Stub	1/4 Stub	AB	4600	59.75	60.00
ARE51C4E-CAA-959	10.50	6.40	8.12	25.6	5/16 Stub	1/4 Stub	POE	5220	149.75	70.00
ARJ11K2E-CAV-901	9.62	6.50	10.75	63	1 Rotalock	5/16 Stub	POE	13000	255.09	100.00
ASE20C4-IAA-901	10.50	6.40	7.38	22.9	5/16 Stub	1/4 Stub	AB	3690	53.99	45.00
ASE20C4-IAA-959	10.50	6.40	7.38	22.9	5/16 Stub	1/4 Stub	AB	3690	53.99	45.00
ASE26C4-IAA-959	10.50	6.40	7.88	24.3	5/16 Stub	1/4 Stub	AB	4390	65.21	60.00
ASE35C4-CAA-901	10.50	6.40	8.12	25.6	5/16 Stub	1/4 Stub	AB	5700	89.90	70.00
ASE35C4-CAA-959	10.50	6.40	8.12	25.6	5/16 Stub	1/4 Stub	AB	5700	89.90	70.00

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3-4	PC-3 5
1	EA	97141	AFE12C4E-IAA-959 1325 BTU 115-1 R134A LT COMPRESSOR	—	—	—
1	EA	97142	AFE17C4E-IAA-901 1700 BTU 115-1 R404A EMT SWEAT COMPRESSOR	—	—	—
1	EA	97143	ARE25C3E-SAA-901 2460 BTU 115-1 R134 HT SWEAT COMPRESSOR	—	—	—
1	EA	97144	ARE29C4-IAA-901 2630 BTU 115-1 R12 HT SWEAT COMPRESSOR	—	—	—
1	EA	97145	ARE29C4-IAA-959 2630 BTU 115-1 R12 HT SWEAT COMPRESSOR	—	—	—
1	EA	97146	ARE40C4-IAA-901 3620 BTU 115-1 R12 HT SWEAT COMPRESSOR	—	—	—
1	EA	97147	ARE40C4-IAA-959 3620 BTU 115-1 R12 HT SWEAT COMPRESSOR	—	—	—
1	EA	97148	ARE51C4-CAA-901 4600 BTU 115-1 R12 HT SWEAT COMPRESSOR	—	—	—
1	EA	97149	ARE51C4-CAA-959 4600 BTU 115-1 R12 HT SWEAT COMPRESSOR	—	—	—
1	EA	97163	ARE51C4E-CAA-959 5220 BTU 115-1 R134A HT COMPRESSOR	—	—	—
1	EA	97164	ARJ11K2E-CAV-901 13000 BTU 230-1 R134A HT SWEAT COMPRESSOR	—	—	—
1	EA	97165	ASE20C4-IAA-901 3690 BTU 115-1 R22 HT SWEAT COMPRESSOR	—	—	—
1	EA	97166	ASE20C4-IAA-959 3690 BTU 115-1 R22 HT SWEAT COMPRESSOR	—	—	—
1	EA	97167	ASE26C4-IAA-959 4390 BTU 115-1 R22 HT SWEAT COMPRESSOR	—	—	—
1	EA	97168	ASE35C4-CAA-901 5700 BTU 115-1 R22 HT SWEAT COMPRESSOR	—	—	—
1	EA	97169	ASE35C4-CAA-959 5700 BTU 115-1 R22 HT SWEAT COMPRESSOR	—	—	—

**Copeland**® R Compressors  
brand products



**R Line**

- Single cylinder.
- 1/2 to 1-1/2 horsepower.
- R-12, R-22, R-134a, R-404A.
- Low, medium, and high temperature applications.
- High starting torque.
- 230 and 115 volt single phase applications.
- Some 230 volt 3 phase models.
- Stub tube and rotalock suction models.
- Electrical components shipped with compressor.
- Applications: Ice machines, reach-ins, walk-ins, lab equipment, and ice cream machines.

Model Number	Dimensions (In.)			Weight (Lbs.)	Suction	Discharge	Oil Type	BTU	Displacement	4 Year Warranty Extension
	L	W	H							
RRT10K1E-PFA-959	10.30	7.10	9.80	39.2	1/2 Stub	3/8 Stub	POE	10400	206.38	130.00
RRT10K1E-PFV-959	10.30	7.10	9.80	39.2	1/2 Stub	3/8 Stub	POE	10250	206.38	150.00
RRT62C1E-IAA-901	10.30	7.10	8.20	36.4	3/8 Stub	1/4 Stub	POE	5460	129.13	70.00
RRT62C1-IAA-901	10.30	7.10	8.20	36.4	3/8 Stub	1/4 Stub	POE	5600	129.13	70.0
RRT64C1E-IAA-959	10.30	7.10	8.70	37.5	3/8 Stub	1/4 Stub	POE	6760	151.76	125.00
RRT64C1-IAA-959	10.30	7.10	8.70	37.5	3/8 Stub	1/4 Stub	AB	6280	151.76	115.00
RRT81C1E-PFA-959	10.30	7.10	9.80	39.2	1/2 Stub	3/8 Stub	POE	9020	176.10	125.00
RST10K1-PFV-901	10.30	7.10	9.80	39.2	1/2 Stub	3/8 Stub	AB	16500	206.38	100.00
RST10K1-TA5-959	10.30	7.10	9.80	39.2	1/2 Stub	3/8 Stub	AB	15700	206.38	170.00
RST40C1-IAA-901	10.30	7.10	8.70	36.8	3/8 Stub	1/4 Stub	AB	5930	93.21	70.00
RST40C1-IAA-959	10.30	7.10	8.70	36.8	3/8 Stub	1/4 Stub	AB	5930	93.21	85.00
RST45C1E-IAA-959	10.30	7.10	8.69	37.2	3/8 Stub	1/4 Stub	POE	4140	107.75	125.00
RST55C1-CAA-959	10.30	7.10	8.69	38.0	1 Rotalock	1/4 Stub	AB	8790	129.13	85.00
RST55C1-CAV-959	10.30	7.10	8.70	38.0	1 Rotalock	1/4 Stub	AB	8720	129.13	125.00
RST64C1-CAV-959	10.30	7.10	9.20	39.2	1 Rotalock	1/4 Stub	AB	11400	166.14	85.00
RST64C1E-CAV-959	10.30	7.10	9.20	39.2	3/8 Stub	1/4 Stub	POE	6870	166.14	125.00
RST64C1E-CFA-959	10.30	7.10	9.20	39.2	3/8 Stub	1/4 Stub	POE	6680	166.14	85.00
RST64C1E-IAV-959	10.30	7.10	9.20	39.2	3/8 Stub	1/4 Stub	POE	6680	166.14	150.00
RST70C1-PFV-959	10.30	7.10	9.80	39.2	1/2 Stub	3/8 Stub	AB	11700	151.75	150.00
RST80C1E-PFV-959	10.30	7.10	9.80	39.2	1/2 Stub	3/8 Stub	POE	8250	176.10	130.00
RST80C1-PFV-901	10.30	7.10	9.80	39.2	1/2 Stub	3/8 Stub	AB	13600	176.10	100.00
RST97C1E-PFV-959	10.30	7.10	9.80	39.2	1/2 Stub	3/8 Stub	POE	9460	194.45	150.00
RST97C1-PFV-901	10.30	7.10	9.80	39.2	1/2 Stub	3/8 Stub	AB	15400	194.45	100.00

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3-4	PC-3 5
1	EA	97170	RRT10K1E-PFA-959 6510 BTU 115-1 R134A MT COMPRESSOR	—	—	—
1	EA	97194	RRT10K1E-PFV-959 10,250/6570 BTU 230-1 R134A HT/MT COMPRESSOR	—	—	—
1	EA	97193	RRT62C1E-IAA-901 5600 BTU 115-1 R134A HT SWEAT COMPRESSOR	—	—	—
1	EA	97195	RRT62C1-IAA-901 5460 BTU 115-1 R12 HT SWEAT COMPRESSOR	—	—	—
1	EA	97196	RRT64C1E-IAA-959 6760/4230 BTU 115-1 R134A HT/MT COMPRESSOR	—	—	—
1	EA	97198	RRT64C1-IAA-959 6280 BTU 115-1 R12 HT COMPRESSOR	—	—	—
1	EA	97199	RRT81C1E-PFA-959 9020 BTU 115-1 R134A HT COMPRESSOR	—	—	—
1	EA	97367	RST10K1-PFV-901 16,500 BTU 230-1 R22 HT SWEAT COMPRESSOR	—	—	—
1	EA	97368	RST10K1-TA5-959 15,700 BTU 230-3 R22 HT SWEAT COMPRESSOR	—	—	—
1	EA	97192	RST40C1-IAA-901 5930 BTU 115-1 R22 HT SWEAT COMPRESSOR	—	—	—
1	EA	97369	RST40C1-IAA-959 5930 BTU 115-1 R22 HT COMPRESSOR	—	—	—
1	EA	97376	RST45C1E-IAA-959 4140 BTU 115-1 R404A EMT & LT COMPRESSOR	—	—	—
1	EA	97377	RST55C1-CAA-959 8790 BTU 115-1 R22 HT COMPRESSOR	—	—	—
1	EA	97379	RST55C1-CAV-959 8720/5270 BTU 230-1 R22 HT/MT COMPRESSOR	—	—	—
1	EA	97416	RST64C1-CAV-959 11400/6910 BTU 230-1 R22 HT/MT SWEAT COMPRESSOR	—	—	—
1	EA	97449	RST64C1E-CAV-959 6870 BTU 230-1 R404A EMT & LT COMPRESSOR	—	—	—
1	EA	97473	RST64C1E-CFA-959 6680 BTU 115-1 R404A EMT & LT COMPRESSOR	—	—	—
1	EA	97474	RST64C1E-IAV-959 6680 BTU 230-1 R404A EMT & LT COMPRESSOR	—	—	—
1	EA	97475	RST70C1-PFV-959 11700/7380 BTU 230-1 R22 HT/MT SWEAT COMPRESSOR	—	—	—
1	EA	97483	RST80C1E-PFV-959 8250 BTU 230-1 404A EMT COMPRESSOR	—	—	—
1	EA	97484	RST80C1-PFV-901 13,600 BTU 230-1 R22 HT SWEAT COMPRESSOR	—	—	—
1	EA	97507	RST97C1E-PFV-959 9460 BTU 230-1 R404A EMT COMPRESSOR	—	—	—
1	EA	97508	RST97C1-PFV-901 15,400 BTU 230-1 R22 HT SWEAT COMPRESSOR	—	—	—

**Copeland** brand products **CF and CS Compressors**



**CF and CS Lines**

- Two cylinder.
- 1 to 5 horsepower.
- R-12, R-134a, R-22, R-404A.
- Low, medium and high temperature applications.
- 230 volt single and three phase.
- 460 volt three phase.
- Stub tube models.
- Good replacement for Tecumseh AH and AV.
- Applications: ice machines, walk-ins and chillers.
- 970 sweat connections.
- 979 sweat connections with electrical components.

Model Number	Dimensions (In.)			Weight (Lbs.)	Suction	Discharge	Oil Type	BTU	Displacement	4 Year Warranty Extension
	L	W	H							
CF06K6E-TF5-970	10.23	9.65	13.31	64.0	3/4 Stub	3/8 stub	POE	6320	368.01	170.00
CF06K6E-PFV-979	10.23	9.65	13.31	66.0	3/4 Stub	3/8 Stub	POE	6690	368.01	150.00
CF09K6E-TF5-970	10.23	9.65	13.81	67.0	3/4 Stub	1/2 Stub	POE	9620	534.59	185.00
CF09K6E-PFV-979	10.23	9.65	13.81	69.0	3/4 Stub	1/2 Stub	POE	9800	470.00	185.00
CS10K6E-TF5-945	10.28	9.09	14.31	71.0	3/4 Stub	3/8 Stub	POE	11300	275.07	150.00
CS10K6E-PFV-945	10.23	9.65	13.31	62.0	3/4 Stub	3/8 Stub	POE	11600	275.07	130.00
CF12K6E-PFV-979	10.23	9.65	14.31	69.0	3/4 Stub	1/2 Stub	POE	12700	665.12	185.00
CS12K6E-PFV-945	10.23	9.65	13.31	62.0	3/4 Stub	3/8 Stub	POE	13800	308.42	150.00
CS14K6E-TF5-945	10.23	9.65	13.44	61.0	3/4 Stub	3/8 Stub	POE	13900	349.66	170.00
CS14K6E-PFV-945	10.23	9.65	13.44	64.0	3/4 Stub	3/8 Stub	POE	14100	349.66	150.00
CS18K6E-PFV-945	10.23	9.65	13.81	65.0	3/4 Stub	3/8 Stub	POE	18100	442.34	150.00
CS20K6E-TF5-945	10.23	9.65	14.06	65.0	3/4 Stub	1/2 Stub	POE	19800	534.59	170.00
CS20K6E-PFV-945	10.23	9.65	14.06	67.0	3/4 Stub	1/2 Stub	POE	20000	534.59	170.00
CS27K6E-TF5-945	10.23	9.65	14.81	76.0	3/4 Stub	1/2 Stub	POE	26800	679.79	185.00
CS27K6E-PFV-945	10.23	9.65	14.81	76.0	3/4 Stub	1/2 Stub	POE	27600	679.79	185.00
CS33K6E-PFV-956	10.23	9.65	14.81	76.0	3/4 Stub	1/2 Stub	POE	31700	756.06	200.00

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3-4	PC-3 5
1	EA	97130	CF06K6E-TF5-970 6360 BTU 230-3 R404A LT COMPRESSOR	—	—	—
1	EA	97129	CF06K6E-PFV-979 6690 BTU 230-1 R404A LT COMPRESSOR	—	—	—
1	EA	97133	CF09K6E-TF5-970 9620 BTU 230-3 R404A LT COMPRESSOR	—	—	—
1	EA	97132	CF09K6E-PFV-945 9800 BTU 230-1 R404A LT COMPRESSOR	—	—	—
1	EA	97151	CS10K6E-TF5-945 11,300 BTU 230-3 R134A HT R22 MT COMPRESSOR	—	—	—
1	EA	97150	CS10K6E-PFV-945 11,600 BTU 230-1 R134A HT R22 MT COMPRESSOR	—	—	—
1	EA	97135	CF12K6E-PFV-979 12,700 BTU 230-1 R404A LT COMPRESSOR	—	—	—
1	EA	97152	CS12K6E-PFV-945 13800 BTU 230-1 R134A HT R22 MT COMPRESSOR	—	—	—
1	EA	97154	CS14K6E-TF5-945 16,000 BTU 230-3 R134A HT R22 MT COMPRESSOR	—	—	—
1	EA	97153	CS14K6E-PFV-945 16,300 BTU 230-1 R134A HT R22 MT COMPRESSOR	—	—	—
1	EA	97155	CS18K6E-PFV-945 20,600 BTU 230-1 R134A HT R22 COMPRESSOR	—	—	—
1	EA	97158	CS20K6E-TF5-945 22,700 BTU 230-3 R134A HT R22 MT COMPRESSOR	—	—	—
1	EA	97157	CS20K6E-PFV-945 23,300 BTU 230-1 R134A HT R22 MT COMPRESSOR	—	—	—
1	EA	97160	CS27K6E-TF5-945 29,700 BTU 230-3 R134A HT R22 MT COMPRESSOR	—	—	—
1	EA	97159	CS27K6E-PFV-945 30,100 BTU 230-1 R134A HT R22 MT COMPRESSOR	—	—	—
1	EA	97161	CS33K6E-PFV-956 36,500 BTU 230-1 R134A HT R22 MT COMPRESSOR	—	—	—

**Copeland**  
brand products **ZF Compressors**



**Z Line Scroll**

- Nominal 1-1/2 to 15 horsepower.
- R-134a, R-22, R-404A.
- Low, medium, and high temperature applications.
- Stub tube and roto-lock.
- Liquid injection on low temperature models.
- Commercial refrigeration models feature: oil sight glass, oil drain, roto-lock options.
- ZF: low temperature model features a broad operating range for field replacement of all refrigeration scrolls.

Model Number	Dimensions (In.)			Weight (Lbs.)	Suction	Discharge	Oil Type	BTU	Displacement	4 Year Warranty Extension
	L	W	H							
ZF06K4E-PFV-931	9.50	9.50	15.04	62.0	3/4 Stub	1/2 Stub	POE	15000	252.29	300.00
ZF09K4E-TF5-931	9.57	9.52	15.93	60.0	3/4 Stub	1/2 Stub	POE	20800	252.29	325.00
ZF13K4E-TF5-961	11.16	9.67	18.50	85.0	7/8 Stub	1/2 Stub	POE	18600	497.78	350.00
ZF15K4E-TF5-931	11.16	9.67	18.50	80.0	7/8 Stub	1/2 Stub	POE	22500	612.50	350.00
ZF15K4E-TF5-961	11.16	9.67	18.50	80.0	7/8 Stub	1/2 Stub	POE	22500	612.50	350.00
ZF15K4E-TFD-961	11.16	9.67	18.50	80.0	7/8 Stub	1/2 Stub	POE	22500	612.50	200.00
ZF18K4E-TF5-931	11.16	9.67	18.50	87.0	7/8 Stub	1/2 Stub	POE	27100	727.10	365.00
ZF18K4E-TF5-961	11.16	9.67	18.50	87.0	7/8 Stub	1/2 Stub	POE	27100	727.10	365.00
ZF18K4E-TFD-961	11.16	9.67	18.50	87.0	7/8 Stub	1/2 Stub	POE	27100	727.10	365.00
ZF33K4E-TWD-951	12.44	14.50	21.34	221.0	1-3/4 Rotalock	1-1/4 Rotalock	POE	46000	1226.83	725.00
ZF40K4E-TWD-951	12.44	14.50	21.34	212.0	1-3/4 Rotalock	1-1/4 Rotalock	POE	41700	1515.21	850.00
ZF48K4E-TWD-951	12.63	14.06	23.36	235.0	2-1/4 Rotalock	1-3/4 Rotalock	POE	69500	1822.43	850.00

**LT and EMT Compressors**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3-4	PC-3 5
1	EA	97197	ZF06K4E-PFV-931 6690 BTU 230-1 R404A LT & EMT COMPRESSOR	—	—	—
1	EA	97200	ZF09K4E-TF5-931 9300 BTU 230-3 R404A LT & EMT COMPRESSOR	—	—	—
1	EA	97202	ZF13K4E-TF5-961 13,200 BTU 230-3 R404A LT & EMT COMPRESSOR	—	—	—
1	EA	97203	ZF15K4E-TF5-931 16400 BTU 230-3 R404A LT & EMT COMPRESSOR	—	—	—
1	EA	97204	ZF15K4E-TF5-961 16,400 BTU 230-3 R404A LT & EMT COMPRESSOR	—	—	—
1	EA	97205	ZF15K4E-TFD-961 16,400 BTU 460-3 R404A LT & EMT COMPRESSOR	—	—	—
1	EA	97206	ZF18K4E-TF5-931 19,500 BTU 230-3 R404A LT & EMT COMPRESSOR	—	—	—
1	EA	97207	ZF18K4E-TF5-961 19,500 BTU 230-3 R404A LT & EMT COMPRESSOR	—	—	—
1	EA	97208	ZF18K4E-TFD-961 19,500 BTU 460-3 R404A LT & EMT COMPRESSOR	—	—	—
1	EA	97209	ZF33K4E-TWD-951 23,400 BTU 460-3 R404A LT & EMT COMPRESSOR	—	—	—
1	EA	97210	ZF40K4E-TWD-951 41,000 BTU 460-3 R404A LT & EMT COMPRESSOR	—	—	—
1	EA	97211	ZF48K4E-TWD-951 47,100 BTU 460-3 R404A LT & EMT COMPRESSOR	—	—	—
1	EA	97212	ZF13KVE-TF5-961 R404A 230-3 EVI SCROLL COMPRESSOR	—	—	—
1	EA	97213	ZF13KVE-TFD-961 R404A 460-3 EVI SCROLL COMPRESSOR	—	—	—
1	EA	97214	ZF18KVE-TF5-961 R404A 230-3 EVI SCROLL COMPRESSOR	—	—	—
1	EA	97215	ZF18KVE-TFD-961 R404A 460-3 EVI SCROLL COMPRESSOR	—	—	—

**Accessories**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96607	918-0041-00 240V 70W 21" LEADS WRAPAROUND CC HEATER	—
1	EA	96608	918-0043-00 240V 70W 48" LEADS WRAPAROUND CC HEATER	—
1	EA	96609	918-0043-01 480V 70W 48" LEADS WRAPAROUND CC HEATER	—
1	EA	96809	998-5100-27 7/8 DISCH 1 3/8 SUCT ROTALOCK SERV VLV KIT ZF33, 40	—
1	EA	96811	998-5100-42 1/2 DISCH 7/8 SUCT SERV VLV KIT ZF13, 15, 18	—
1	EA	96812	998-0500-01 1/4 IN FLARE DTC VALVE	—
1	EA	96813	998-7022-02 1/2 IN 36 IN LEAD DISCHARGE LINE THERMOSTAT	—
1	EA	96814	998-7002-02 240 V LIQUID INJECTION KIT EXCL CAP	—





## ZF and ZBD Refrigeration Scroll Compressors



- R-404A.
- Low, medium and high temperature applications.
- Commercial refrigeration models feature oil sight glass, oil drain and roto-lock options.
- ZF models feature a broad operating range for field replacement of all refrigeration scrolls. Enhanced vapor injection models are indicated by "V" in model number.
- ZBD models feature digital scroll compressors.

Model Number	Dimensions (In.)			Weight (Lbs.)	Suction	Discharge	Oil Type	BTU	Displacement	4 Year Warranty Extension
	L	W	H							
ZBD30KCE-TFD-950	9.48	9.70	18.96	81.0	7/8 Stub	3/4 Stub	POE	30500	497.78	725.00
ZBD45KCE-TFD-950	9.48	9.70	19.46	88.0	7/8 Stub	3/4 Stub	POE	44300	727.10	725.00
ZF33KVE-TWD-951	12.40	14.50	21.34	221.0	1-3/4 Rotalock	1-1/4 Rotalock	POE	47700	1226.83	1155.00

### Compressors

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3-4	PC-3 5
1	EA	97560	ZBD30KCE-TFD-950 30,000 BTUH R404A MT SCROLL REFR COMPRESSOR	—	—	—
1	EA	97561	ZBD45KCE-TFD-950 44,000 BTUH R404A MT SCROLL REFR COMPRESSOR	—	—	—
1	EA	97218	ZF33KVE-TWD-951 R404A 460-3 EVI SCROLL COMPRESSOR	—	—	—

### Digital Scroll Parts

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96816	998-0073-00 SWEAT ZBD & ZFD SOLENOID VALVE & TUBING	—
1	EA	96817	998-0066-00 ROTOLock ZBD & ZFD SOLENOID VALVE & TUBING	—
1	EA	96818	923-0058-00 24V SOLENOID COIL	—
1	EA	96819	923-0058-08 110V SOLENOID COIL	—
1	EA	96820	923-0058-09 220V SOLENOID COIL	—
1	EA	96821	543-0024-00 DIGITAL SCROLLS CONTROLLER MODULE	—
1	EA	96822	998-0034-15 1/2" ROTALock ADAPTOR	—
1	EA	96823	998-0034-02 7/8" ROTALock ADAPTOR	—



## Air-Cooled Condensing Units

### Quick Reference, Stock Models by Refrigerant

R-12	
Model	HP
<b>High/Med Temp</b>	
MBFH-A026-IAA-001,105,109	1/4
MBFS-0033-IAA-201, 272	1/3
MBFH-0050-IAA-201, 272	1/2
FBAM-B050-IAA-201	1/2
FBAH-B075-IAV-001	3/4
FBAM-A075-IAA-001	3/4
FBAM-A075-IAV-001	3/4
FBAH-B100-CAV-001	1
<b>Low Temp.</b>	
MBFS-0033-IAA-201	1/4
MBFL-0034-IAA-001	1/3
MBFL-0050-IAA-201	1/2
<b>R-134a</b>	
<b>High/Med. Temp.</b>	
M2FH-0017-SAA-106	1/6
M2FH-0026-IAA-001	1/4
M2FH-A033-IAA-201, 272	1/3
M2FH-0050-IAA-201, 272	1/2
FTAH-A101-CFV-001	1
<b>Low Temp.</b>	
FTAL-A050-IAA-201	1/2

R-404A	
Model	HP
<b>Low Temp</b>	
M4FL-0033-IAA-001	1/3
M4FL-0040-IAA-201	1/2
FJAF-A075-IAV-001	3/4
FJAL-A101-CAV-001	1
FJAL-B200-CFV-001	2
FJAL-B200-TFC-001	2
FJAL-A225-CFV-001	2-1/4
FJAL-A225-TFC-001	2-1/4
FJAL-B301-CFV-010	3
FJAL-B301-TFC-010	3
<b>Med. Temp</b>	
M4FH-0050-CAA201	1/2
M4FH-0050-CAV-201	1/2
FJAF-B078-CAA-001	3/4
FJAF-B078-CAV-001	3/4
FJAM-A106-CAV-001	1
FJAM-A150-CFV-001	1-1/2
FJAM-A150-TFC-001	1-1/2
FJAM-A200-CFV-001	2
FJAM-A200-TFC-001	2

R-22	
Model	HP
<b>High/Med Temp</b>	
MCFH-0027-IAA-201	1/4
MCFH-0036-IAA-201, 272	1/3
MCFH-0049-CAA-201, 272	1/2
MCFH-0049-CAV-201, 272	1/2
MCFH-0056-IAA-201, 272	1/2
MCFH-0056-IAV-201, 272	1/2
F3AH-A078-IAA-001	3/4
F3AH-A078-IAV-001	3/4
F3AH-A100-CAV-001	1
F3AM-A105-CFV-001	1
F3AM-A105-TFC-001	1
F3AD-A151-CFV-001	1-1/2
F3AD-A151-TFC-001	1-1/2
F3AD-A201-CFV-010	2
F3AD-A201-TFC-010	2
F3AD-B301-CFV-010	3
F3AD-B301-TFC-010	3
F3AD-A501-CFV-010	5
F3AD-A501-TFC-010	5

**Copeland<sup>®</sup>** brand products **Hermetic Air-Cooled Condensing Units**

**Electric Nomenclature (voltage-phase-hertz)**

115-1-60	208/230-1-60	208/230-3-60	460-3-60
CAA/CFA	CAV/CFV	TFC	TFD
IAA	IAV		
SAA*			

\*SAA indicates low torque start, all other designations are high torque. These electrical designations are part of the unit model number. The TFD versions will not be stock models but are available in normal production lead times.

**Unit Features**

BOM	Suction Connections		Liquid Connections		Electrical Connections				UL/UR
	Suction Valve	Suction Accumulator	Base Valve	Receiver with Valve	Power Cord	BX Conduit	Fan Cycle Control	Fan Guard	
105	X		X		X				UR
106	X				X				UR
109	X			X	X				UR
201	X			X		X		X	UR*
001	X			X		X		X	UL
010	X	X		X		X	X	X	UL
072	X			X		X		X	UL
272	X			X		X		X	UR

\* These recognized models are identical to listed models less pressure control. Need for the control is to be evaluated in the end use application.



# FFAP Multi-Refrigerant Condensing Units

## Low, Medium, and High Temperature



- For use with R-404A, R-134a, R-407C, and R-22
- Air cooled
- Operating range of -30° F to 45° F (R-404A)
- Designed for up to 110° ambient

Vendor Reference	Compressor	BTUH Capacity @ 90 Amb, +25 Evap				-20 Evap R-404A	Weight	Overall Dimensions (in.)			Connections		Oil	MCA 208/230
		R-404A	R-134a	R-407C	R-22			L	W	H	Suction	Liquid		
FFAP-015Z	ZS09KAE	11,500	7,540	10,400	11,400	4,000	121	24.1	18.3	16.6	7/8 S	3/8 S	POE	13.9
FFAP-017Z	ZS11KAE	13,100	8,900	12,500	13,100	5,200	130	24.1	18.3	16.6	7/8 S	3/8 S	POE	17.2
FFAP-020Z	ZS13KAE	15,300	10,200	14,000	15,200	6,280	191	25.2	34	19	7/8 S	3/8 S	POE	16.8
FFAP-022Z	ZS15KAE	18,900	12,300	17,300	18,300	7,360	191	25.2	34	19	7/8 S	3/8 S	POE	22.4
FFAP-030Z	ZS19KAE	21,600	14,100	19,700	20,800	8,330	209	25.2	34.1	19	7/8 S	3/8 S	POE	25.3
FFAP-032Z	ZS21KAE	27,300	18,500	25,400	27,400	11,200	209	25.2	34.1	19	7/8 S	3/8 S	POE	31.8

4 Year Warranty Extension ‡	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
\$130.00	1	EA	97509	FFAP-015Z-CFV072 1 1/2 HP 230-1 MULTI USE CONDENSING UNIT	—
\$130.00	1	EA	97510	FFAP-017Z-CFV072 1 3/4 HP 230-1 MULTI USE CONDENSING UNIT	—
\$150.00	1	EA	97511	FFAP-020Z-CFV072 2 HP 230-1 MULTI USE CONDENSING UNIT	—
\$250.00	1	EA	97512	FFAP-022Z-CFV071 2 1/4 HP 230-1 MULTI USE CONDENSING UNIT	—
\$250.00	1	EA	97513	FFAP-030Z-CFV071 3 HP 230-1 MULTI USE CONDENSING UNIT	—
\$250.00	1	EA	97514	FFAP-032Z-CFV071 3 1/4 HP 230-1 MULTI USE CONDENSING UNIT	—

‡ Extended warranties are for the compressor only. Standard condensing unit warranty is one year parts and one year compressor.

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# High and Medium Temperature Condensing Units



## M Line Condensing Units

- 1/6 to 1/2 horsepower applications.
- R-12, R-134a, R-22, R-404A.
- Air cooled in stock.
- Water cooled available as special order.
- Utilizes A Line compressor



## F Line Condensing Units

- 1/2 to 5 horsepower applications.
- R-12, R-134a, R-22, R404A.
- Utilizes C or R compressor.
- One or two fans.

NOTE: Water cooled available as special order. Utilizes A Line compressor.

Vendor Reference	Refr	H.P.	Compressor	BTUH Capacity @ 90° F			Weight	Overall Dimensions (in.)			Connections		Oil	MCA
				+10	+25	+40		L	W	H	Suction	Liquid		
M2FH-0017-SAA106	R-134a	1/6	ARB13C3E	800	1150	1560	33	13.8	11.8	9.7	3/8 F	1/4 F	POE	4.2
M2FH-0026-IAA109	R-134a	1/4	ARE27C3E	1530	2080	2710	41	13.8	11.8	9.7	3/8 F	1/4 F	POE	6.9
MCFH-B027-IAAXXX	R-22	1/4	ASE20C4-IAA-199	1960	2680	3500	42	13.9	11.5	9.7	3/8 S	1/4 S	AB	8.2
MBFS-0033-IAAXXX	R-12	1/3	ARE37C3	1820	2510	3310	47	13.8	11.8	9.7	3/8 F	1/4 F	AB	9.7
MBFL-0034-IAA020	R-12	1/3	AFT12C1	1160	1510	2080	47	16.2	12.4	9.7	3/8 F	1/4 F	AB	7.0
M2FH-A033-IAAXXX	R-134a	1/3	ARE37C3E	1870	2710	3580	46	13.8	11.8	9.7	3/8 F	1/4 F	POE	9.9
FBAM-B050-IAA212	R-12	1/2	RS40C2	3660	4840	N/A	76	16.0	13.1	11.8	5/8 F	1/4 F	AB	12.1
MBAH-0075-CFV020	R-12	3/4	RRT81C1	4930	6640	8520	35	24.0	17.5	13.1	3/8 F	5/8 F	AB	9.3
M4FF-0075-CAV020	R-404A	3/4	RST55C1E	5010	6660	N/A	87	24.0	16.3	13.1	5/8 S	3/8 S	POE	9.7
MCFH-0078-CAV-072	R-22	3/4	RST55C1	4640	6520	8770	87	24.0	17.2	13.1	5/8 S	3/8 S	AB	9.7
FBAM-A075-IAV020	R-12	3/4	RS54C2	4580	6160	N/A	111	13.1	24.	16.9	3/8 F	5/8 F	AB	9.7
F3AH-A078-IAA020	R-22	3/4	RS47C2	4480	6450	8660	102	24.0	16.9	12.9	5/8 F	3/8 F	MIN	10.1
F3AH-A078-IAV020	R-22	3/4	RS47C2	4480	6450	8660	102	13.1	24.	16.9	3/8 S	5/8 S	AB	10.1
FJAF-B078-CAA001	R-404A	3/4	RS55C2E	4970	6740	N/A	105	24.0	16.9	13.1	5/8 F	3/8 F	POE	18.5
FBAH-B100-CAV020	R-12	1	RR10K2	N/A*	N/A*	N/A*	89	24.0	16.9	13.1	5/8 F	3/8 F	MIN	11.5
FTAH-A101-CFV052	R-134a	1	CS10K6E	4990	7770	10800	130	24.0	16.8	15.9	5/8 F	3/8 F	POE	14.8
F3AH-A100-CAVXXX	R-22	1	RRG4-0100	5260	7480	10200	112	24.0	16.9	13.1	7/8 S	3/8 F	MIN	12.7
F3AM-A105-XXXXXX	R-22	1	RS70C1	6610	9600	N/A	138	24.1	18.3	16.2	7/8 S	3/8 F	MIN	11.7
F3AH-B105-CFV020	R-22	1	RST70C1	6630	9060	12100	100	24.0	18.3	16.2	5/8 S	3/8 S	AB	11.0
F3AH-B105-TAC020	R-22	1	RST70C1	6630	9060	12100	107	24.0	18.3	16.2	5/8 S	3/8 S	MIN	7.5
FJAF-A106-CAV020	R-404A	1	RS64C2E	6380	8530	N/A	135	24.0	18.3	16.2	7/8 S	3/8 F	POE	12.5
FJAM-A150-XXXXXX	R-404A	1-1/2	CS10K6E	9100	12500	N/A	144	24.0	18.3	16.2	7/8 S	3/8 F	POE	15.9
FGAH-A151-CFV-020	R-22	1-1/2	CR18KQE	6950	11300	16100	135	24	18.3	16.1	7/8 S	3/8 S	POE	14.2
F3AD-B201-CFV-055	R-22	2	CR24KQ	10200	15000	21300	215	25.1	34.1	19.1	1/2 F	1/4 F	AB	19.2
F3AD-B201-TFC-050	R-22	2	CR24KQ	10200	15000	21300	186	25.1	34.1	19.1	7/8 S	3/8 S	AB	11.7
FGAH-A201-CFV020	R-22	2	CR24KQE	10500	15400	21600	189	25.2	34.0	19.0	7/8 S	3/8 S	POE	19.2
FGAH-A201-TFC-020	R-22	2	CR24KQE	10500	15400	21600	239	25.2	34.0	19.0	7/8 S	3/8 S	POE	11.7
FJAM-A200-CFV020	R-404A	2	CS12K6E	11600	16100	N/A	170	25.2	34.1	18.9	7/8 S	3/8 F	POE	15.9
FGAH-A301-CFV020	R-22	3	CR37KQE	17000	24600	33100	199	25.2	34.0	19.0	7/8 S	3/8 S	POE	28.9
FGAH-A301-TFC020	R-22	3	CR37KQE	17000	24600	33100	201	25.2	34.0	19.0	7/8 S	3/8 S	POE	19.7
FGAH-A501-TFC-020	R-22	5	CRNQ-050E	30400	43200	57600	510	28.2	44.1	26.8	1-1/8 RK	1/2 S	POE	30.4

\* 10,400 BTUH at 45°F

Continued from the Previous Page

Condensing Units

4 Year Warranty Extension ‡	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3-4	PC-3 5
\$20.00	1	EA	97220	M2FH-0017-SAA106 1/6 HP 115-1 R1341 HT/MT CONDENSING UNIT	—	—	—
\$45.00	1	EA	97227	M2FH-0026-IAA109 1/4 HP 115-1 R134A HT/MT CONDENSING UNIT	—	—	—
\$45.00	1	EA	97261	MCFH-B027-IAA103 1/4 HP 115-1 SWEAT R22 HT/MT CONDENSING UNIT	—	—	—
\$35.00	1	EA	97228	MCFH-0027-IAA109 1/4 HP 115-1 FLARE R22 HT/MT CONDENSING UNIT	—	—	—
\$35.00	1	EA	97255	MBFS-0033-IAA105 1/4 HP LT 1/3 HP HT 115 R-12 CONDENSING UNIT	—	—	—
\$45.00	1	EA	97364	M2FH-A033-IAA111 1/3 HP 115-1 SWEAT R134A HT/MT CONDENSING UNIT	—	—	—
\$50.00	1	EA	97365	MBFL-0034-IAA020 1/3 HP 115-1 SWEAT R-12 LT CONDENSING UNIT	—	—	—
\$70.00	1	EA	97274	FBAM-B050-IAA212 1/2 HP 115-1 R12 MT CONDENSING UNIT	—	—	—
\$100.00	1	EA	97311	MBAH-0075-CFV020 3/4 HP 230-1 SWEAT R12 HT/MT CONDENSING UNIT	—	—	—
\$100.00	1	EA	97268	M4FF-0075-CAV020 3/4 HP 230-1 R404A MT CONDENSING UNIT	—	—	—
\$90.00	1	EA	97530	MCFH-0078-CAV072 3/4 HP 230-1 SWEAT R22 HT/MT CONDENSING UNIT	—	—	—
\$115.00	1	EA	97312	FBAM-A075-IAV020 3/4 HP 230-1 SWEAT R12 MT CONDENSING UNIT	—	—	—
\$130.00	1	EA	97279	F3AH-A078-IAA020 3/4 HP 115-1 R22 HT/MT CONDENSING UNIT	—	—	—
\$100.00	1	EA	97313	F3AH-A078-IAV020 3/4 HP 230-1 SWEAT R22 HT/MT CONDENSING UNIT	—	—	—
\$85.00	1	EA	97267	FJAF-B078-CAA001 3/4 HP 115-1 R404A MT CONDENSING UNIT	—	—	—
\$100.00	1	EA	97282	FBAM-B100-CAV020 1 HP 230-1 R12 HT/MT CONDENSING UNIT	—	—	—
\$100.00	1	EA	97308	F3AH-A100-CAV052 1 HP 230-1 R22 HT/MT CONDENSING UNIT	—	—	—
\$60.00	1	EA	97285	F3AH-B105-CFV020 1 HP 230-1 R22 HT/MT CONDENSING UNIT	—	—	—
\$60.00	1	EA	97286	F3AH-B105-TAC020 1 HP 230-3 R22 HT/MT CONDENSING UNIT	—	—	—
\$100.00	1	EA	97269	FJAF-0106-CAV020 1 HP 230-1 R404A MT CONDENSING UNIT	—	—	—
\$150.00	1	EA	97309	FTAH-A101-CFV020 1 HP 230-1 R134A HT/MT CONDENSING UNIT	—	—	—
\$70.00	1	EA	97370	FGAH-A151-CFV020 1 1/2 HP 230-1 R22 HT/MT CONDENSING	—	—	—
\$100.00	1	EA	97270	FJAM-A150-CFV020 1-1/2 HP 230-1 R404A MT CONDENSING UNIT	—	—	—
\$100.00	1	EA	97271	FJAM-A150-TFC020 1-1/2 HP 230-3 R404A MT CONDENSING UNIT	—	—	—
\$60.00	1	EA	97306	F3AD-B201-CFV055 2 HP 230-1 R22 HT/MT CONDENSING UNIT	—	—	—
\$60.00	1	EA	97307	F3AD-B201-TFC050 2 HP 230-3 R22 HT/MT CONDENSING UNIT	—	—	—
\$70.00	1	EA	97371	FGAH-A201-CFV020 2 HP 230-1 R22 HT/MT CONDENSING	—	—	—
\$70.00	1	EA	97372	FGAH-A201-TFC020 2 HP 230-3 R22 HT/MT CONDENSING	—	—	—
\$100.00	1	EA	97272	FJAM-A200-CFV020 2 HP 230-1 R404A MT CONDENSING UNIT	—	—	—
\$85.00	1	EA	97373	FGAH-A301-CFV020 3 HP 230-1 R22 HT/MT CONDENSING	—	—	—
\$85.00	1	EA	97374	FGAH-A301-TFC020 3 HP 230-3 R22 HT/MT CONDENSING	—	—	—
\$150.00	1	EA	97375	FGAH-A501-TFC020 5 HP 230-3 R22 HT/MT CONDENSING	—	—	—



## Low Temperature Condensing Units



### M Line Condensing Units

- 1/6 to 1/2 horsepower applications.
- R-12, R-134a, R-44, R404a
- One or two fans
- Utilizes A Line compressor.



### F Line Condensing Units

- 1/2 to 5 horsepower applications
- R-12, R-134a, R-44, R-404a
- One or two fans
- Utilizes C or R compressor

NOTE: Air cooled in stock. Water cooled available as a special order.

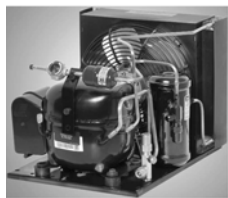
Vendor Reference	Refr	H.P.	Compressor	BTUH Capacity @ 90 df			Weight	Overall Dimensions (in.)			Connections		Oil	MCA
				+10	+25	+40		L	W	H	Suction	Liquid		
MBFS-0033-IAAXXX	R-12	1/4	ARE37C3	860	1130	1550	47	13.8	11.8	9.7	3/8 F	1/4 F	AB	9.7
MBFL-0034-IAA001	R-12	1/3	AFT12C1	1160	1510	2080	47	16.2	12.4	9.7	3/8 F	1/4 F	AB	7.0
MBFL-0050-IAA201	R-12	1/2	AFJ23C1	1620	2140	2980	73	16.2	13.2	9.7	1/2 F	1/4 F	AB	9.9
M4FL-0033-IAA001	R-404a	1/3	AFE11C3E	910	1260	1830	41	13.8	11.8	9.7	3/8 F	1/4 F	POE	7.7
FJAF-A056-IAA201	R-404a	1/2	RS43C2E	1130	1630	2530	78	17.5	14.3	12.1	5/8 F	1/4 F	POE	14.3
M4FF-0080-IAV020	R-404a	3/4	RST641C1E	2810	3480	4710	130	24.0	16.1	13.1	5/8 S	3/8 S	POE	12.4
FJAL-A101-CAV020	R-404a	1	RS80C2E	3370	4520	6450	120	24.0	16.9	13.1	5/8 RF	3/8 F	POE	13.2
FJAL-A103-CFV001	R-404a	1	CF04K6E	2950	4230	6500	124	24.0	15.0	16.1	7/8 RS	3/8 F	POE	13.2
FJAL-B200-CFV001	R-404a	2	CF06K6E	5440	7750	11530	144	24.0	18.4	16.2	7/8 RS	3/8 F	POE	20.8
FJAL-B200-TFC001	R-404a	2	CF06K6E	5440	7750	11530	144	24.0	18.4	16.2	7/8 RS	3/8 F	POE	14.6
FJAL-A225-CFV001	R-404a	2-1/4	CF06K6E	5620	8060	12400	196	25.2	34.1	18.9	7/8 RS	3/8 F	POE	19.0
FJAL-A225-TFC001	R-404a	2-1/4	CF06K6E	5620	8060	12400	196	25.2	34.1	18.9	7/8 RS	3/8 F	POE	16.6
FJAL-B301-CFV010	R-404a	3	CF09K6E	8540	12340	18810	217	25.2	34.1	18.9	7/8 RS	3/8 F	POE	25.8
FJAL-B301-TFC010	R-404a	3	CF09K6E	8540	12340	18810	217	25.2	34.1	18.9	7/8 RS	3/8 F	POE	18.6

4 Year Warranty Extension ‡	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3-4	PC-3 5
\$35.00	1	EA	97255	MBFS-0033-IAA105 1/4 HP LT 1/3 HP HT 115 R-12 CONDENSING UNIT	—	—	—
\$20.00	1	EA	97258	MBFL-0034-IAA001 1/3 HP 115-1 FLARE R-12 LT CONDENSING UNIT	—	—	—
\$45.00	1	EA	97260	MBFL-0050-IAA201 1/2 HP 115-1 R-12 LT CONDENSING UNIT	—	—	—
\$20.00	1	EA	97254	M4FL-0033-IAA001 1/3 HP 115-1 R404A LT CONDENSING UNIT	—	—	—
\$30.00	1	EA	97266	M4FF-0056-IAA212 1/2 HP 115-1 LOW TEMP COPELAND CONDENSING UNIT	—	—	—
\$125.00	1	EA	97378	M4FF-0080-IAV020 3/4 HP 230-1 R404A LT/MT CONDENSING UNIT	—	—	—
\$150.00	1	EA	97305	FJAL-A101-CAV020 1 HP 230-1 SWEAT R404A LT CONDENSING UNIT	—	—	—
\$150.00	1	EA	97298	FJAL-A103-CFV020 1 HP 230-1 R404A LT CONDENSING UNIT	—	—	—
\$100.00	1	EA	97299	FJAL-B200-CFV020 2 HP 230-1 R404A LT CONDENSING UNIT	—	—	—
\$100.00	1	EA	97300	FJAL-B200-TFC020 2 HP 230-3 R404A LT CONDENSING UNIT	—	—	—
\$100.00	1	EA	97301	FJAL-A225-CFV020 2-1/4 HP 230-1 R404A LT CONDENSING UNIT	—	—	—
\$100.00	1	EA	97304	FJAL-A225-TFC020 2-1/4 HP 230-3 R404A CONDENSING UNIT	—	—	—
\$130.00	1	EA	97302	FJAL-B301-CFV015 3 HP 230-1 R404A LT CONDENSING UNIT	—	—	—
\$130.00	1	EA	97303	FJAL-B301-TFC015 3 HP 230-3 R404A LT CONDENSING UNIT	—	—	—





# High, Medium, and Low Temperature Value Add Condensing Units



**Value Add M Line Condensing Units Feature Installed Liquid Line Drier and Sight Glass.**

- Reduces labor installation costs
- Lowers warranties and call backs
- 1/6 to 1/2 horsepower applications
- R-12, R-22, R-134a and R-404A
- Utilizes A line compressor

Vendor Reference	Refr	H.P.	Compressor	BTUH Capacity @ 90 df			Weight	Overall Dimensions (in.)			Connections		Oil	MCA
				+10	+25	+40		L	W	H	Suction	Liquid		
2FH-0026-IAA072	R-134a	1/4	ARE27C3E	1530	2080	2710	41	13.8	11.8	9.7	3/8 F	1/4 F	POE	6.9
MCFH-0027-IAA272	R-22	1/4	ARE36C3	1910	2600	3380	42	13.8	11.8	9.7	3/8 F	1/4 F	MIN	9.1
MBFS-0033-IAA272	R-12	1/3	ARE37C3	—	—	—	51	14.1	12.3	11.2	3/8 S	1/4 S	ABO	9.7
M2FH-A033-IAA272	R-134a	1/3	ARE37C3E	1870	2620	3500	51	14.1	12.3	11.2	3/8 S	1/4 S	POE	9.9
MCFH-0036-IAA272	R-22	1/3	ARE43C3	2270	3140	4140	43	16.3	13.1	11.7	3/8 S	1/4 S	ABO	9.7
M4FL-0033-IAA072	R-134a	1/3	ARE37C3E	1870	2710	3580	46	13.8	11.8	9.7	3/8 F	1/4 F	POE	9.9
M4FL-0040-IAA272	R-404A	1/2	AFE13C3E	1430	1880	2640	47	16.2	13.1	11.8	3/8 F	1/4 F	POE	17.2
MCFH-0049-CAA272	R-22	1/2	ARE59C3	3090	4250	5600	51	16.3	13.1	11.7	3/8 S	1/4 S	ABO	10.9
MCFH-0049-CAV272	R-22	1/2	ARE59C3	3090	4250	5600	50	16.3	13.1	11.7	3/8 S	1/4 S	ABO	5.6
M2FH-0050-IAA272	R-134a	1/2	ART62C1E	2950	4230	5740	50	16.3	13.1	11.7	3/8 S	1/4 S	POE	13.6
M4FH-0050-CAA072	R-404A	1/2	ASE32C3E	3320	4380	5600	50	16.1	12.7	11.8	5/8 F	3/8 F	POE	12.3
M4FH-0050-CAV272	R-404A	1/2	ASE32C3E	3320	4380	5600	50	16.1	12.7	11.8	5/8 F	3/8 F	POE	6.7
MBFH-0050-IAA272	R-12	1/2	ART62C1	—	—	—	51	16.3	13.1	11.7	1/2 S	1/4 S	ABO	13.8
MCFH-0056-IAA272	R-22	1/2	ART69C1	3610	4950	6720	69	17.7	14.4	11.8	1/2 S	1/4 S	ABO	18.0
MCFH-0078-CAA072	R-22	3/4	RST55C1	4640	6520	8770	40	24.0	17.1	13.1	5/8 S	3/8 S	ABO	20.8

4 Year Warranty Extension ‡	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3-4	PC-3 5
\$45.00	1	EA	97216	M2FH-0026-IAA072 1/4 HP 115-1 VALUE ADD R134A HT/MT CONDENSING UNIT	—	—	—
\$35.00	1	EA	97219	MCFH-0027-IAA272 1/4 HP 115-1 VALUE ADD R134A HT/MT CONDENSING UNIT	—	—	—
\$45.00	1	EA	97245	M2FH-A033-IAA272 1/3 HP 115-1 VALUE ADD R134A HT/MT CONDENSING UNIT	—	—	—
\$45.00	1	EA	97246	MCFH-0036-IAA272 1/3 HP 115-1 VALUE ADD R22 HT/MT CONDENSING UNIT	—	—	—
\$20.00	1	EA	97265	M4FL-0033-IAA072 1/3 HP 115-1 VALUE ADD R404A LT CONDENSING UNIT	—	—	—
\$50.00	1	EA	97247	MCFH-0049-CAA272 1/2 HP 115-1 VALUE ADD R22 HT/MT CONDENSING UNIT	—	—	—
\$50.00	1	EA	97248	MCFH-0049-CAV272 1/2 HP 230-1 VALUE ADD R22 HT/MT CONDENSING UNIT	—	—	—
\$50.00	1	EA	97249	M2FH-A050-IAA272 1/2 HP 115-1 VALUE ADD R134A HT/MT CONDENSING UNIT	—	—	—
\$50.00	1	EA	97250	MBFH-0050-IAA272 1/2 HP 115-1 VALUE ADD R12 HT/MT CONDENSING UNIT	—	—	—
\$50.00	1	EA	97251	MCFH-0056-IAA272 1/2 HP 115-1 VALUE ADD R22 HT/MT CONDENSING UNIT	—	—	—
\$50.00	1	EA	97252	MCFH-A056-IAV272 1/2 HP 230-1 VALUE ADD R22 HT/MT CONDENSING UNIT	—	—	—
\$20.00	1	EA	97253	MBFS-0033-IAA272 1/3 HP 115-1 R12 LT CONDENSING UNIT	—	—	—
\$20.00	1	EA	97262	M4FL-0040-IAA272 1/2 HP 115-1 VALUE ADD R404A LT CONDENSING UNIT	—	—	—
\$50.00	1	EA	97263	M4FH-0050-CAA272 1/2 HP 115-1 VALUE ADD R404A HT/MT CONDENSING UNIT	—	—	—
\$50.00	1	EA	97264	M4FH-0050-CAV272 1/2 HP 230-1 VALUE ADD R404A HT/MT CONDENSING UNIT	—	—	—
\$125.00	1	EA	97366	MCFH-0078-CAA072 3/4 HP 115-1 R22 HT/MT CONDENSING UNIT	—	—	—

**Copeland**  
brand products **Condensing Unit Hoods**

**Hood Specification Data**

ECT Part No.	MFG Part No.	External Dimensions (In.)			Internal Dimensions (In.)		
		L	W	H	L	W	H
<b>UL Listed for Outdoor Use</b>							
005-0882-00	CHO-10	27	20	20	26	20	16
005-0882-01	CHO-11	29-1/2	37	27-1/2	28-1/2	37	22-1/2
005-0882-04	CHO-15	33-1/2	48-1/2	35-1/2	32-1/2	48-1/2	30-1/2
<b>Economy Hoods</b>							
005-0882-09	ECON-01	26	20	20	26	20	16
005-0882-10	ECON-02	26	24-1/2	22	26	24-1/2	18
005-0882-11	ECON-04	28-1/2	37	26-1/2	28	37	22-1/2
005-0882-12	ECON-03	24-1/2	24	25	24-1/2	24	21

**Hood Selection**

Copeland Brand Unit Model	Dimensions			Copeland Brand Hood	
	L	W	H	UL Listed	Economy
<b>SystemPro Air-Cooled</b>					
M2FH-0017	13.8	11.8	9.7	005-0882-00	005-0882-09
M2FH-0056	17.4	14.4	11.8	005-0882-00	005-0882-09
M4FH-0025	13.8	11.8	9.7	005-0882-00	005-0882-09
M4FH-A036	16.1	12.7	11.8	005-0882-00	005-0882-09
M2FL-0020	13.8	11.1	9.7	005-0882-00	005-0882-09
M2FL-A025	13.8	11.8	9.7	005-0882-00	005-0882-09
M2FL-B033	16.2	12.4	9.7	005-0882-00	005-0882-09
M4FL-0040	16.2	13.1	11.8	005-0882-00	005-0882-09
M4FL-0051	17.4	13.1	11.8	005-0882-00	005-0882-09
M4FL-0067	18.1	14.4	11.8	005-0882-00	005-0882-09
MMFH-0022	13.8	11.4	9.7	005-0882-00	005-0882-09
MBFH-0049	16.2	13.1	11.8	005-0882-00	005-0882-09
MBFH-0050	17.9	13.1	11.8	005-0882-00	005-0882-09
FBAM-B050	24.0	16.9	12.9	005-0882-00	005-0882-09
FJAF-A056	17.5	14.3	12.1	005-0882-00	005-0882-09
FJAF-A075	24.0	16.9	13.1	005-0882-00	005-0882-09
FJAL-A101	24.0	16.9	13.1	005-0882-00	005-0882-09
FJAL-B200	24.0	19.5	16.3	005-0882-02	005-0882-10
FJAL-B301	25.2	34.1	19.0	005-0882-01	005-0882-11
FJAL-A390	25.2	34.1	19.0	005-0882-01	005-0882-11
FJAM-A106	24.0	18.3	16.2	005-0882-00	005-0882-09
FJAM-A200	25.2	34.1	18.9	005-0882-01	005-0882-11
FJAM-B400	28.2	44.1	26.9	005-0882-04	N/A
FTAH-B074	17.4	14.4	11.8	005-0882-00	005-0882-09
FTAH-A101	24.0	16.8	15.9	005-0882-00	005-0882-09
FTAH-A150	24.0	18.4	16.3	005-0882-02	005-0882-10
FTAH-A201	25.2	34.0	18.9	005-0882-01	005-0882-11
FTAL-A050	16.0	13.3	11.9	005-0882-00	005-0882-09
F3AD-B151	24.1	18.3	16.9	005-0882-02	005-0882-10
F3AD-B201	25.0	34.0	19.0	005-0882-01	005-0882-11
F3AD-A501	28.6	44.1	26.9	005-0882-04	N/A
F3AH-A078	24.0	16.9	13.1	005-0882-00	005-0882-09
F3AH-A100	24.0	16.9	13.1	005-0882-00	005-0882-09

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96793	005-0882-01 CHO-11 CONDENSING UNIT HOODS	—
1	EA	96795	005-0882-04 CHO-15 CONDENSING UNIT HOODS	—
1	EA	96798	005-0882-08 CON-2 CONDENSING UNIT HOODS	—
1	EA	96800	005-0882-10 ECON-2 CONDENSING UNIT HOODS	—
1	EA	96801	005-0882-11 ECON-4 CONDENSING UNIT HOODS	—
1	EA	96802	005-0882-12 ECON-3 CONDENSING UNIT HOODS	—
1	EA	96799	505-7066-01 HOOD ASSEMBLY GROUP	—



## Discus Semi-Hermetic Compressors



### Models from 5 to 40 horsepower.

- R-12, R-134a, R-22, R404A.
- Low, medium and high temperature applications.
- Capacity control models available.
- Total interchangeability with existing Copelamatic compressors.
- Unique Discus design increases capacities up to 25%.
- Save up to 30% on energy costs over conventional compressors.
- Sentronic oil pump allows the use of the Sentronic oil pressure control.

Model Number	Dimensions (In.)			Weight (Lbs.)	Suction	Discharge	Oil Type	BTU	Displacement	4 Year Warranty Extension
	L	W	H							
3DB3R12ME-TFC800	26.78	15.06	18.03	385.0	1-3/8 Sweat	1-1/8 Sweat	POE	7-1/2 HP	1615.11	725.00
3DF3A090E-TFD800	26.78	15.06	18.03	385.0	1-3/8 Sweat	1-1/8 Sweat	POE	6 HP	1913.20	725.00
3DF3F40KE-TFD800	26.78	15.06	18.03	385.0	1-3/8 Sweat	1-1/8 Sweat	POE	6 HP	1913.20	725.00
3DS3F46KE-TFC800	26.78	15.06	18.03	385.0	1-3/8 Sweat	1-1/8 Sweat	POE	7 HP	2127.41	850.00
3DS3R17ME-TFC800	28.03	15.06	18.03	385.0	1-5/8 Sweat	1-1/8 Sweat	POE	10 HP	2127.41	850.00
4DH3R16ME-TSK800	25.41	20.50	17.81	450.0	1-5/8 Sweat	1-1/8 Sweat	POE	15 HP	3017.79	1000.00

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3-4	PC-3 5
1	EA	97424	3DB3R12ME-TFC800 102K BTU 230-3 R404A HT/MT LOW CON COMPRESSOR	—	—	—
1	EA	97393	3DF3A090E-TFD800 9 HP 460-3 R404A LT COMPRESSOR	—	—	—
1	EA	97421	3DF3F40KE-TFD800 40K BTU 460-3 R404A LT LOW COND COMPRESSOR	—	—	—
1	EA	97431	3DS3F46KE-TFC800 46K BTU 230-3 R404A LT LOW COND COMPRESSOR	—	—	—
1	EA	97434	3DS3R17ME-TFC800 117K BTU 230-3 R404A HT/MT LOW CON COMPRESSOR	—	—	—
1	EA	97438	4DH3R16ME-TSK800 15 HP 230/460 3 R134A HT COMPRESSOR	—	—	—



## Core Numbers

For Comp.	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
H	1	EA	90416	\$50 CORE CHARGE IS INCLUDED CREDIT ISSUED UPON RETURN
K	1	EA	90417	\$70 CORE CHARGE IS INCLUDED CREDIT ISSUED UPON RETURN
E	1	EA	90418	\$134 CORE CHG IS INCLUDED CREDIT ISSUED UPON RETURN
L	1	EA	90419	\$150 CORE CHG IS INCLUDED CREDIT ISSUED UPON RETURN
3	1	EA	90420	\$155 CORE CHG IS INCLUDED CREDIT ISSUED UPON RETURN
N	1	EA	90421	\$218 CORE CHG IS INCLUDED CREDIT ISSUED UPON RETURN
M	1	EA	90422	\$239 CORE CHG IS INCLUDED CREDIT ISSUED UPON RETURN
9	1	EA	90423	\$300 CORE CHG IS INCLUDED CREDIT ISSUED UPON RETURN
2D	1	EA	90424	\$325 CORE CHG IS INCLUDED CREDIT ISSUED UPON RETURN
4R	1	EA	90425	\$350 CORE CHG IS INCLUDED CREDIT ISSUED UPON RETURN
3D	1	EA	90426	\$416 CORE CHG IS INCLUDED CREDIT ISSUED UPON RETURN
6R	1	EA	90427	\$560 CORE CHG IS INCLUDED CREDIT ISSUED UPON RETURN
4D	1	EA	90428	\$630 CORE CHG IS INCLUDED CREDIT ISSUED UPON RETURN
6D	1	EA	90429	\$775 CORE CHG IS INCLUDED CREDIT ISSUED UPON RETURN
8D	1	EA	90430	\$950 CORE CHG IS INCLUDED CREDIT ISSUED UPON RETURN

## Contactors Selection for 4D/R, 6D/R, and 8D Compressors

1. Determine compressor model number and find it on the list. (See following pages.)
2. Determine system voltage.
3. Determine if compressor is to be started by Full Voltage (one contactor) or Part Winding (two contactors).
4. Obtain the compressor RLA and LRA values from the Selection Guide.
5. Find the contactor rating on the chart.
6. Determine contactor coil control voltage.
7. Select contactor from list.
8. Use only Copeland contactors.

**Copeland** brand products **Contactors Specifications and Selection Guide**

Model Number	New Nomenclature Model	230 volt – 1 contactor			230 volt – 2 contactors			460 volt – 1 contactor			460 volt – 2 contactors		
		LRA	RLA	Contactor Amp Rating	LRA	RLA	Contactor Amp Rating	LRA	RLA	Contactor Amp Rating	LRA	RLA	Contactor Amp Rating
4DA3-100E-TSK-800	4DA3R12ME-TSK	240	42	50	140	42	2-25	120	21	25			
4DA3-101E-TSK-800	4DA3F47KE-TSK	240	42	50	140	42	2-25	120	21	25			
4DE3-100E-TSK-800	4DE3R12ME-TSK	240	42	50	140	42	2-25	120	21	25			
4DA3-200E-TSK-800	4DE3R18ME-TSK	308	66	75	188	33	2-40	154	33	40			
4DA3-2000-FSD-800	4DE3R18M0-FSD							173	34	40	104	17	2-25
4DA3-2000-TSK-800	4DE3R18M0-TSK	308	66	75	188	33	2-40	154	33	40			
4DA4-2000-TSK-800		308	66	75	188	33	2-40	154	33	40			
4DE3-200E-TSK-800	4DE3R18ME-TSK	308	66	75	188	33	2-40	154	33	40			
4DE3-2000-FSD-800	4DE3R18M0-FSD							173	34	40	104	17	2-25
4DE3-2000-TSK-800	4DE3R18M0-FSD	308	66	75	188	33	2-40	154	33	40			
4DB3-2200-TSK-800	4DB3R20M0-TSK	374	66	75	222	33	2-40	187	33	40			
4DC3-2200TSK-800	4DC3R20M0-TSK	374	66	75	222	33	2-40	187	33	40			
4DH3-150E-TSK-800	4DH3R16ME-TSK	278	58	75	170	29	2-40	139	29	40			
4DH3-250E-TSK-800	4DK3R22ME-TSK	428	82	90	250	41	2-50	214	41	50			
4DH3-2500-TSK-800	4DK3R22M0-TSK	428	82	90	250	41	2-50	214	41	50			
4DJ3-3000-TSK-800	4DJ3R28M0-TSK	470	94	120	292	47	2-50	235	47	50			
4DK3-150E-TSK-800	4DK3R16ME-TSK	278	58	75	170	29	2-40	139	29	40			
4DK3-250-E-TSK-800	4DK3R22ME-TSK	428	82	90	250	41	2-50	214	41	50			
4DK3-2500-FSD-800	4DK3R22M0-FSD							206	41	50	132	20	2-30
4DK3-2500-TSK-900	4DK3R22M0-TSK	428	82	90	250	41	2-50	214	41	50			
4DL3-150E-TSK-800	4DL3F63KE-TSK	278	53	60	170	26	2-40	139	26	40			
4DN3-101E-TSK-800	4DN3F47KE-TSK	220	46	50	134	23	2-25	110	23	25			
4DP3-150E-TSK-800	4DP3F63KE-TSK	278	53	60	170	26	2-40	139	26	40			
4DP8-150E-TSK-800	4DP8F63KE-TSK	278	53	60	170	26	2-40	139	26	40			
4DR3-200E-TSK-800	4DR3R19ME-TSK	346	66	75	208	33	2-40	173	33	40			
4DR3-300E-TSK-800	4DR3R28ME-TSK	470	94	120	292	47	2-50	235	47	50			
4DR3-3000-FSD-800	4DR3R28M0-FSD							235	45	50	141	23	2-30
4DR3-3000-TSK-800	4DR3R28M0-TSK	470	94	120	292	47	2-50	235	47	50			
4DS3-220E-TSK-800	4DS3F76KE-TSK	374	66	75	222	33	2-40	187	33	40			
4DT3-220E-FSD-800	4DT3F76KE-TSK							180	34	40	108	17	2-25
4DT3-220E-TSK-800	4DT3F76KE-TSK	374	66	75	222	33	2-40	187	33	40			
4RA3-100A-TSK-800		240	55	60	140	27	2-30	120	27	30			
4RA3-200A-TSK-800		308	71	75	188	36	2-40	154	36	40			
4RA4-200A-TSK-800		308	71	75	188	36	2-40	154	36	40			
4RE2-200A-FSD-800								135	33	40	82	17	2-20
4RE2-200A-TSK-800		308	71	75	188	36	2-40	154	36	40			
4RH1-150A-TSK-800		278	63	75	170	32	2-40	139	32	40			
4RJ1-300A-FSD-800								200	59	60	121	30	2-30
4RK2-250A-FSD-800								165	45	50	100	23	2-25
4RK2-250A-TSK-800		428	89	90	250	44	2-50	214	44	50			
4RL1-150A-TSK-800		278	63	75	170	32	2-40	139	32	40			
4RL2-150A-TSK-800		278	63	75	170	32	2-40	139	32	40			
4RR1-300A-FSD-800								200	59	60	121	30	2-30
4RR1-300A-TSK-800		470	102	120	292	51	2-60	235	51	60			
4RR2-300A-TSK-800		470	102	120	292	51	2-60	235	51	60			
6DB3-3000-TSK-800	6DB3R32M0-TSK	565	105	120	340	53	2-60	283	53	60			
6DC3-270E-TSK-800	6DC3F93KE-TSK	450	81	90	263	40	2-50	225	40	50			
6DD3-270E-TSK-800	6DD3F93KE-TSK	450	81	90	263	40	2-50	225	40	50			
6DE3-300E-TSK-800	6DE3F11ME-TSK	470	96	120	292	48	2-50	235	48	50			
6DF3-300E-TSK-800	6DF3F11ME-TSK	470	96	120	292	48	2-50	235	48	50			



# Contactors Specifications and Selection Guide

Model Number	New Nomenclature Model	230 volt – 1 contactor			230 volt – 2 contactors			460 volt – 1 contactor			460 volt – 2 contactors		
		LRA	RLA	Contactors Amp Rating	LRA	RLA	Contactors Amp Rating	LRA	RLA	Contactors Amp Rating	LRA	RLA	Contactors Amp Rating
6DG3-350E-TSN-800	6DN3R37ME-TSN	594	125	150	340	63	2-75	297	63	75			
6DG3-3500-FSD-800	6DG3R37M0-FSD							315	66	75	195	33	2-40
6DG3-3500-TSN-800	6DG3R37M0-TSK	594	125	150	340	63	2-75	297	63	75			
6DH3-200E-TSK-800	6DH3R23ME-TSK	346	75	75	208	38	2-40	175	38	40			
6DH3-350E-TSK-800	6DP3R35ME-TSK	565	107	120	340	54	2-75	283	54	75			
6DH3-3500-FSD-800	6DP3R35M0-FSD							260	55	75	156	28	2-40
6DH3-3500-TSK-800	6DP3R35M0-TSK	565	107	120	340	54	2-75	283	54	75			
6DJ3-300E-TSK-800	6DS3R28ME-TSK	470	100	120	292	50	2-50	235	50	50			
6DJ3-400E-TSN-800	6DS3R40ME-TSN	594	142	150	340	71	2-75	297	71	75			
6DJ3-4000-TSN-800	6DS3R40M0-TSN	594	142	150	340	71	2-75	297	71	75			
6DK3-200E-TSK-800	6DK3R23ME-TSK	346	75	75	208	38	2-40	173	38	40			
6DK3-350E-TSK-800	6DP3R35ME-TSK	565	107	120	340	54	2-75	283	54	75			
6DK3-3500-FSD-800	6DP3R35M0-FSD							260	55	75	156	28	2-40
6DK3-3500-TSK-800	6DP3R35M0-TSK	565	107	120	340	54	2-75	283	54	75			
6DL3-270E-TSK-800	6DL3F93KE-TSK	450	81	90	263	40	2-50	225	40	50			
6DM3-3500-FSD-800	6DN3R37M0-FSD							315	66	75	195	33	2-40
6DM3-3500-TSN-800	6DN3R37M0-TSN	594	125	150	340	63	2-75	297	63	75			
6DN3-350E-TSN-800	6DN3R37ME-TSN	594	125	150	340	63	2-75	297	63	75			
6DN3-3500-FSD-800	6DN3R37M0-FSD							315	66	75	195	33	2-40
6DN3-3500-TSN-800	6DN3R37M0-TSN	594	125	150	340	63	2-75	297	63	75			
6DP3-200E-TSK-800	6DP3R23ME-TSK	346	75	75	208	38	2-40	173	38	40			
6DP3-350E-FSD-800	6DP3R35ME-FSD							260	55	75	156	28	2-40
6DP3-350E-TSK-800	6DP3R35ME-TSK	565	107	120	340	54	2-75	283	54	75			
6DP3-3500-FSD-800	6DP3R35M0-FSD							260	55	75	156	28	2-40
6DP3-3500-TSK-800	6DP3R35M0-TSK	565	107	120	340	54	2-75	283	54	75			
6DR3-300E-TSK-800	6DR3R26ME-TSK	470	100	120	292	50	2-50	235	50	50			
6DR3-400E-FSD-800	6DS3R40ME-FSD							315	70	75	195	35	2-40
6DR3-400E-TSN-800	6DS3R40ME-TSN	594	142	150	340	71	2-75	297	71	75			
6DR3-4000-FSD-800	6DS3R40M0-FSD							315	70	75	195	35	2-40
6DR3-4000-TSN-800	6DS3R40ME-TSN	594	142	150	340	71	2-75	297	71	75			
6DS3-300E-TSK-800	6DS3R28ME-TSK	470	100	120	292	50	2-50	235	50	50			
6DS3-400E-TSN-800	6DS3R40ME-TSN	594	142	150	340	71	2-75	297	71	75			
6DS3-4000-FSD-800	6DS3R40M0-FSD							315	70	75	195	35	2-40
6DS3-4000-TSN-800	6DS3R40M0-TSN	594	142	150	340	71	2-75	297	71	75			
6DT3-300E-FSD-800	6DT3F11ME-FSD							235	43	50	141	21	2-30
6DT3-300E-TSK-800	6DT3F11ME-TSK	470	100	120	292	50	2-50	235	50	50			
6DW3-3000-FSD-800	6DY3R32M0-FSD							260	50	50	156	25	2-40
6DW3-3000-TSK-800	6DY3R32M0-TSK	565	105	120	340	53	2-60	283	53	60			
6DY3-3000-FSD-800	6DY3R32M0-FSD							260	50	50	156	25	2-40
6DY3-3000-TSK-800	6DY3R32M0-TSK	565	105	120	340	53	2-60	283	53	60			
6RA4-100A-TSK-800		240	44	50	140	22	2-25	120	22	25			
6RA4-200A-TSK-800		308	67	75	188	34	2-40	154	34	40			
6RB2-100A-TSK-800		240	43	50	140	22	2-25	120	22	25			
6RB2-200A-TSK-800		308	61	75	188	31	2-40	154	31	40			
6RE2-200A-TSK-800		308	67	75	188	34	2-40	154	34	40			
6RH1-200A-TSK-800		308	72	75	188	36	2-40	154	36	40			
6RL1-250A-TSK-800		428	97	120	250	49	2-50	214	49	50			
6RN2-300A-TSK-800		470	105	120	292	53	2-60	235	53	60			
6RP2-200A-TSK-800		308	72	75	188	36	2-40	154	36	40			
6RP2-350A-FSD-800								225	68	75	150	34	2-40
6RP2-350A-TSK-800		565	135	150	340	68	2-75	283	68	75			
6RS2-400A-FSD-800								239	64	75	147	32	2-40
6RS2-400A-TSN-800		594	142	150	340	71	2-75	297	71	75			
6RT1-300A-TSK-800		470	111	120	292	56	2-60	235	56	60			
6TM1-2000-TSK-800		308	66	75	188	33	2-40	154	3	40			
8DP1-5000-FSD-800	8DP1R56M0-FSD							510	91	120	330	46	2-75
8DP1-5000-TSK-800	8DP1R56M0-TSK	1070	180	200	654	90	2-120	535	90	120			
8DS1-6000-FSD-800	8DS1R67M0-FSD							510	97	120	330	48	2-75
8DS1-6000-TSK-800	8DS1R67M0-TSK	1070	224		654	112	2-120	535	112	120			

**Copeland**  
brand products **Contactors Specifications and Selection Guide**

Model Number	New Nomenclature Model	200 volt - 1 contactor			200 volt - 2 contactors		
		LRA	RLA	Contactors Amp Rating	LRA	RLA	Contactors Amp Rating
6DG3-3500-FSU-800	6DG3R37MO-FSU	650	135	150	400	68	2-75
6DM3-3500-FSU-800	6DM3R37MO-FSU	650	135	150	400	68	2-75
6DN3-3500-FSU-800	6DN3R37ME-FSU	650	135	150	400	68	2-75
6DN3-3500-FSU-800	6DN3R37MO-FSU	650	135	150	400	68	2-75
6DS3-4000-FSU-800	6DS3R40M0FSU	754	150	150	463	75	2-90
6RS2-400A-FSU-800					388	85	2-90

Model Number	New Nomenclature Model	575 volt - 1 contactor			575 volt - 2 contactors		
		LRA	RLA	Contactors Amp Rating	LRA	RLA	Contactors Amp Rating
4DA3-2000-TSE-800	4DA3R18M0-TSE	135	25	40	81	12	2-25
4DC3-2200-TSE-800	4DC3R20M0-TSE	135	27	40	81	13	2-25
4DK3-2500-TSE-800	4DK3R22M0-TSE	172	34	50	103	17	2-30
4DR3-3000-TSE-800	4DR3R28M0-TSE	200	39	50	130	20	2-40
4RK2-250A-TSE-800		160	35	40	113	17	2-20
6DG3-3500-TSE-800		245	46	60	152	23	2-40
6DH3-3500-TSE-800		230	43	60	138	21	2-40
6DN3-3500-TSE-800		245	46	60	152	23	2-40
6DP3-3500-TSE-800		230	43	60	138	21	2-40
6DS1-4000-TSE-800		245	54	60	152	27	2-40
8DP1-5000-TSE-800		405	75	120	262	38	2-75

RLA – Rated load amps. LRA – The current drawn by a motor which is locked and cannot rotate. It occurs instantly during start up.



## Contactors

**Copeland contactors have earned the Certified Parts stamp of approval.**



- Silver cadmium oxide contacts for longer life.
- Quiet reliable operation with adjusting magnet armatures.
- Compact design.
- Snap-on accessories.
- Quick connect terminals.
- Non-position sensitive for convenient mounting.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96761	912-0001-10 1 NO FOR 15-75 A AUXILIARY CONTACTS	—
1	EA	96762	912-0001-11 1 NC FOR 15-75 A AUXILIARY CONTACTS	—
1	EA	96763	912-0001-12 1NO/1NC FOR 15-75 A AUXILIARY CONTACTS	—
1	EA	96764	912-0001-13 2 NO FOR 15-75 A AUXILIARY CONTACTS	—
1	EA	96767	912-0001-17 1NO/1NC FOR 90 A AUXILIARY CONTACTS	—
1	EA	96770	912-2030-00 2 POLE 30 AMP 24V CONTACTOR	—
1	EA	96771	912-2030-01 2 POLE 30 AMP 120 V CONTACTOR	—
1	EA	96772	912-2030-02 2 POLE 30 AMP 208/240 V CONTACTOR	—
1	EA	96773	912-2040-00 2 POLE 40 AMP 24 V CONTACTOR	—
1	EA	96774	912-3030-00 3 POLE 30 AMP 24 V CONTACTOR	—
1	EA	96775	912-3030-01 3 POLE 30 AMP 120V CONTACTOR	—
1	EA	96776	912-3030-02 3 POLE 30 AMP 208/240 V CONTACTOR	—
1	EA	96777	912-3040-00 3 POLE 40 AMP 24 V CONTACTOR	—
1	EA	96778	912-3040-01 3 POLE 40 AMP 120 V CONTACTOR	—
1	EA	96779	912-3040-02 3 POLE 40 AMP 208/240 V CONTACTOR	—
1	EA	96780	912-3050-00 3 POLE 50 AMP 24 V CONTACTOR	—
1	EA	96781	912-3050-01 3 POLE 50 AMP 120 V CONTACTOR	—
1	EA	96782	912-3050-02 3 POLE 50 AMP 208/240 V CONTACTOR	—
1	EA	96783	912-3060-00 3 POLE 60 AMP 24 V CONTACTOR	—
1	EA	96784	912-3060-01 3 POLE 60 AMP 120 V CONTACTOR	—
1	EA	96785	912-3060-02 3 POLE 60 AMP 208/240 V CONTACTOR	—
1	EA	96786	912-3075-01 3 POLE 75 AMP 120 V CONTACTOR	—
1	EA	96787	912-3075-02 3 POLE 75 AMP 208/240 V CONTACTOR	—
1	EA	96788	912-3090-01 3 POLE 90 AMP 120 V CONTACTOR	—
1	EA	96789	912-3090-02 3 POLE 90 AMP 208/240 V CONTACTOR	—
1	EA	96790	912-3120-01 3 POLE 120 AMP 120V CONTACTOR	—
1	EA	96791	912-3120-02 3 POLE 120 AMP 208/240 V CONTACTOR	—



# Tecumseh SFA to Copeland Cross-Reference

## Tecumseh SFA Compressor Cross Reference to Copeland ZR or ZB

Tecumseh Model	Replace with Copeland			
	Bercor	Good Choice	Bercor	Preferred Choice
SFA5572EXG	97500	ZR72KC-TFD		N/A
SFA5572EXT	97499	ZR72KC-TF5		N/A
SFA5594EXG	97502	ZR94KC-TFD	97536	ZB58KC-TFD
SFA5594EXT	97501	ZR94KC-TF5	97535	ZB58KC-TF5
SFA5611EXG		ZR108KC-TFD	97538	ZB66KC-TFD
SFA5611EXT		ZR108KC-TF5	97537	ZB66KC-TF5
SFA5612EXG	97504	ZR125KC-TFD	97540	ZB76KC-TFD
SFA5612EXT	97503	ZR125KC-TF5	97539	ZB76KC-TF5
SFA5615EXG		ZR144KC-TFD	97542	ZB88KC-TFD
SFA5615EXT		ZR144KC-TF5	97541	ZB88KC-TF5

NOTE: When converting a Tecumseh SFA compressor to a Copeland ZR/ZB the following guidelines must be followed. For additional information consult Copeland Form No. 99-11W.

## Required and Recommended System Components

Compressors	Required	Recommended
ZR72KC	Crankcase Heater 96608 or 96609	Contactors Filter Driers Low Pressure Control 3 Phase Voltage Monitor
ZR94-144KC ZB58-88KC	A/C System 25 PSIG Low Pressure Control Crankcase Heater 96610 or 96611 Heat Pump System 7 PSIG Low Pressure Control Discharge Line Thermostat Crankcase Heater Pump Down Cycle Discharge Line Check Valve	Contactors Filter Driers Access Fitting 3 Phase Voltage Monitor

NOTE: To receive warranty an invoice showing proof of purchase for required parts must be included with the warranty paperwork for the compressor.





# CRKQ Air Conditioning Compressors



## Air Conditioning Applications

- R-22 only
- CR=Residential A/C (1.5 to 5 Tons)
- Huge Installed Base

Model Number	Dimensions (In.)			Weight (Lbs.)	Suction	Discharge	Oil Type	BTU	Displacement	4 Year Warranty Extension
	L	W	H							
CR18KQ-PFV-980WB	9.31	8.94	13.38	61.0	5/8 Stub	3/8 Stub	AB	18400	270.64	70.00
CR18KQ-TF5-980WB	9.31	8.94	13.38	61.0	5/8 Stub	3/8 Stub	AB	18400	270.64	100.00
CR22Q-PFV-980WB	9.31	8.94	13.50	58.0	5/8 Stub	3/8 Stub	AB	21800	303.10	70.00
CR24KQ-PFV-980WB	9.31	8.94	13.25	64.0	5/8 Stub	3/8 Stub	AB	23900	328.22	85.00
CR24KQ-TF5-980 WB	9.31	8.94	13.38	60.0	5/8 Stub	3/8 Stub	AB	23300	328.22	100.00
CR28KQ-PFV-980WB	9.31	8.94	13.25	62.0	5/8 Stub	3/8 Stub	AB	27300	368.01	70.00
CR30KQ-PFV-980WB	9.31	8.94	13.50	62.0	5/8 Stub	3/8 Stub	AB	29500	390.0	85.00
CR33KQ-PFV-980WB	9.25	9.25	13.12	75.0	3/4 Stub	3/8 Stub	AB	32700	449.53	100.00
CR34KQ-PFV-980WB	9.25	9.25	13.38	63.0	3/4 Stub	3/8 Stub	AB	34000	459.79	85.00
CR37KQ-PFV-980WB	9.25	9.25	13.62	65.0	3/4 Stub	3/8 Stub	AB	36800	493.53	100.00
CR37KQ-TF5-980WB	9.25	9.25	14.25	66.0	3/4 Stub	3/8 Stub	AB	36400	493.53	125.00
CR41KQ-PFV-980WB	9.25	9.25	13.88	66.0	3/4 Stub	3/8 Stub	AB	41700	534.59	100.00
CR41KQ-TF5-980WB	9.25	9.25	14.56	70.0	3/4 Stub	3/8 Stub	AB	40700	534.59	125.00
CR47KQ-TFD-890WB	10.38	9.09	14.81	77	22/25 Stub	1/2 Stub	AB	47200	602.06	\$70.00
CR47KQ-PFV-980WB	10.38	9.09	14.81	77.0	22/25 Stub	1/2 Stub	AB	47500	602.06	100.00
CR47KQ-TF5-980WB	10.38	9.09	14.81	77.0	22/25 Stub	1/2 Stub	AB	47200	602.06	150.00
CR53KQ-PFV-980WB	10.62	9.22	14.81	77.0	22/25 Stub	1/2 Stub	AB	53300	665.12	130.00
CR53KQ-TF5-980WB	10.62	9.22	14.81	77.0	22/25 Stub	1/2 Stub	AB	53200	665.12	170.00
CR53KQ-TFD-980WB	10.62	9.22	14.81	77.0	22/25 Stub	1/2 Stub	AB	53200	665.12	170.00
CRN5-0500-PFV970	11.38	9.38	16.13	91.0	22/25 Stub	1/2 Stub	AB	60600	756.06	150.00
CRN5-0500-TF5970	11.38	9.38	16.13	90.0	22/25 Stub	1/2 Stub	AB	61300	756.06	170.00
CRN5-0500-TFD970	11.38	9.38	16.13	82.0	22/25 Stub	1/2 Stub	AB	61300	756.06	170.00
CRP5-0450-TF5870	11.38	9.38	15.88	82.0	22/25 Stub	1/2 Stub	AB	57000	706.92	170.00
CRP5-0450-TFD970	11.38	9.38	15.88	91.0	22/25 Stub	1/2 Stub	AB	57000	706.92	170.00

## Compressors

Start Capacitor	Run Capacitor	Relay	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3-4	PC-3 5
96733	94585	96711	1	EA	97450	CR18KQ-PFV-980WB 18,000 BTU 230-1 R-22 A/C COMPRESSOR	—	—	—
—	94587	96715	1	EA	97451	CR22KQ-PFV-980WB 22,100 BTU 230-1 R-22 A/C COMPRESSOR	—	—	—
96733	94587	96711	1	EA	97452	CR24KQ-PFV-980WB 24,500 BTU 230-1 R22 A/C COMPRESSOR	—	—	—
96733	94587	96711	1	EA	97453	CR28KQ-PFV-980WB 27,300 BTU 230-1 R22 A/C COMPRESSOR	—	—	—
—	94587	96711	1	EA	97454	CR30KQ-PFV-980WB 29,500 BTU 230-1 R22 A/C COMPRESSOR	—	—	—
96733	96754	96710	1	EA	97455	CR33KQ-PFV-980WB 32,700 BTU 230-1 R22 A/C COMPRESSOR	—	—	—
96733	96754	96710	1	EA	97456	CR34KQ-PFV-980WB 34,000 BTU 230-1 R22 A/C COMPRESSOR	—	—	—
96732	96751	96712	1	EA	97457	CR37KQ-PFV-980WB 36,800 BTU 230-1 R22 A/C COMPRESSOR	—	—	—
96732	—	—	1	EA	97458	CR37KQ-TF5-980WB 36,400 BTU 230-3 R22 A/C COMPRESSOR	—	—	—
96732	94594	96716	1	EA	97459	CR41KQ-PFV-980WB 41,000 BTU 230-1 R22 A/C COMPRESSOR	—	—	—
—	—	—	1	EA	97460	CR41KQ-TF5-980WB 40,600 BTU 230-3 R22 A/C COMPRESSOR	—	—	—
96732	94592	96827	1	EA	97461	CR47KQ-PFV-970 47,500 BTU 230-1 R22 A/C COMPRESSOR	—	—	—
—	—	—	1	EA	97462	CR47KQ-TF5-970 47,200 BTU 230-3 R22 A/C COMPRESSOR	—	—	—
96732	96756	96827	1	EA	97463	CR53KQ-PFV-970 53,700 BTU 230-1 R22 A/C COMPRESSOR	—	—	—
—	—	—	1	EA	97464	CR53KQ-TF5-970 53,200 BTU 230-3 R22 A/C COMPRESSOR	—	—	—
96732	—	—	1	EA	97465	CR53KQ-TFD-970 53,200 BTU 460-3 R22 A/C COMPRESSOR	—	—	—
—	—	—	1	EA	97466	CRP5-0450-TF5970 57,000 BTU 230-3 R22 A/C COMPRESSOR	—	—	—
—	—	—	1	EA	97467	CRP5-0450-TFD970 57,000 BTU 460-3 R22 A/C COMPRESSOR	—	—	—
—	—	—	1	EA	97468	CRN5-0500-PFV970 60,600 BTU 230-1 R22 A/C COMPRESSOR	—	—	—
—	—	—	1	EA	97469	CRN5-0500-TF5970 61,300 BTU 230-3 R22 A/C COMPRESSOR	—	—	—
—	—	—	1	EA	97470	CRN5-0500-TFD970 61,300 BTU 460-3 R22 A/C COMPRESSOR	—	—	—
—	—	—	1	EA	97471	CR18KQ-TF5-980WB 18,000 BTU 230-3 R-22 A/C COMPRESSOR	—	—	—
—	—	—	1	EA	97472	CR24KQ-TF5-980WB 24,000 BTU 230-3 R-22 A/C COMPRESSOR	—	—	—
—	—	—	1	EA	97675	CR47KQ-TFD-970 47,200 BTU 460-3 R-22 A/C COMPRESSOR	—	—	—

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**Start Capacitors**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96732	914-0006-03 189-227 MFD 330 VAC START CAPACITOR	—
1	EA	96733	914-0006-07 145-174 MFD 250 VAC START CAPACITOR	—

**Run Capacitors**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	94585	12941 30MFD 440V RUN CAP OVAL	—	—
1	EA	94587	12943 35MFD 440V RUN CAP OVAL	—	—
1	EA	94592	12748 45MFD 440V RUN CAPACITOR ROUND	—	—
1	EA	94594	12251 50MFD 440V RUN CAPACITOR ROUND	—	—
1	EA	96751	914-0037-12 40 MFD 370 VAC RUN CAPACITOR	—	—
1	EA	96754	914-0037-18 40 MFD 440 VAC RUN CAPACITOR	—	—
1	EA	96756	914-0037-22 60 MFD 440 VAC RUN CAPACITOR	—	—

**Relays**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96710	940-0001-54 START RELAY	—
1	EA	96711	940-0001-55 START RELAY	—
1	EA	96712	940-0001-60 START RELAY	—
1	EA	96715	940-0001-64 START RELAY	—
1	EA	96716	940-0001-68 START RELAY	—
1	EA	96827	940-0001-59 START RELAY	—



# CRK6 Air Conditioning Compressors



## Air Conditioning Applications

- R-22 only
- CR=Residential A/C (1.5 to 5 tons)
- Huge installed base

Model Number	Dimensions (In.)			Weight (Lbs.)	Suction	Discharge	Oil Type	BTU	Displacement	4 Year Warranty Extension
	L	W	H							
CR18K6-PFV	10.23	9.65	13.19	61	3/4 Stub	19/50 Stub	AB	18000	244.36	\$70.00
CR18K6-TF5	10.23	9.65	13.12	61	3/4 Stub	1/2 Stub	AB	17600	244.36	\$70.00
CR22K6-PFV	10.23	9.65	13.19	61	3/4 Stub	19/50 Stub	AB	22100	302.57	\$70.00
CR24K6-PFV	10.23	9.65	13.44	63	3/4 Stub	19/50 Stub	AB	24500	328.22	\$70.00
CR24K6-TF5	10.23	9.65	13.44	60	3/4 Stub	19/50 Stub	AB	24000	328.22	\$70.00
CR28K6-PFV	10.23	9.65	13.56	64	3/4 Stub	1/2 Stub	AB	28200	367.49	\$70.00
CR30K6-PFV	10.23	9.65	13.81	66	3/4 Stub	1/2 Stub	AB	30000	381.62	\$85.00
CR32K6-PFV	10.23	9.65	13.81	66	3/4 Stub	1/2 Stub	AB	32000	423.86	\$85.00
CR34K6-PFV	10.23	9.65	14.06	67	3/4 Stub	1/2 Stub	AB	34500	449.53	\$85.00
CR38K6-PFV	10.23	9.65	14.31	70	3/4 Stub	1/2 Stub	AB	38200	492.79	\$85.00
CR38K6-TFD	10.23	9.65	14.31	67	3/4 Stub	1/2 Stub	AB	37900	492.79	\$70.00
CR38K6-TF5	10.23	9.65	14.31	67	3/4 Stub	1/2 Stub	AB	37900	492.79	\$115.00
CR42K6-PFV	10.23	9.65	14.56	74	3/4 Stub	1/2 Stub	AB	41900	534.59	\$85.00
CR42K6-TFD	10.23	9.65	14.56	69	3/4 Stub	1/2 Stub	AB	41700	534.59	\$70.00
CR42K6-TF5	10.23	9.65	14.56	69	3/4 Stub	1/2 Stub	AB	41700	534.59	\$115.00

## Compressors

Start Capacitor	Run Capacitor	Relay	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3-4	PC-3 5
96747	96749	96711	1	EA	97650	CR18K6-PFV-875 18,000 BTU 230-1 R-22 A/C COMPRESSOR	—	—	—
96729	94556	96712	1	EA	97651	CR22K6-PFV-875 22,100 BTU 230-1 R-22 A/C COMPRESSOR	—	—	—
96747	96750	96711	1	EA	97652	CR24K6-PFV-875 24,500 BTU 230-1 R22 A/C COMPRESSOR	—	—	—
96729	96750	96712	1	EA	97653	CR28K6-PFV-875 28,200 BTU 230-1 R22 A/C COMPRESSOR	—	—	—
96747	96750	96711	1	EA	97654	CR30K6-PFV-875 30,000 BTU 230-1 R22 A/C COMPRESSOR	—	—	—
96747	94587	96710	1	EA	97655	CR32K6-PFV-875 32,000 BTU 230-1 R22 A/C COMPRESSOR	—	—	—
96732	94564	96711	1	EA	97656	CR34K6-PFV-875 34,500 BTU 230-1 R22 A/C COMPRESSOR	—	—	—
96732	96754	96712	1	EA	97657	CR38K6-PFV-875 38,200 BTU 230-1 R22 A/C COMPRESSOR	—	—	—
—	—	—	1	EA	97658	CR38K6-TF5-875 37,900 BTU 230-3 R22 A/C COMPRESSOR	—	—	—
96732	96754	96716	1	EA	97659	CR42K6-PFV-875 41,900 BTU 230-1 R22 A/C COMPRESSOR	—	—	—
—	—	—	1	EA	97660	CR42K6-TF5-875 41,700 BTU 230-3 R22 A/C COMPRESSOR	—	—	—
—	—	—	1	EA	97671	CR18K6-TF5-875 17,600 BTU 230-3 R-22 A/C COMPRESSOR	—	—	—
—	—	—	1	EA	97672	CR24K6-TF5-875 24,000 BTU 230-3 R-22 A/C COMPRESSOR	—	—	—
—	—	—	1	EA	97673	CR38K6-TFD-875 37,900 BTU 460-3 R-22 A/C COMPRESSOR	—	—	—
—	—	—	1	EA	97674	CR42K6-TFD-875 41,700 BTU 460-3 R-22 A/C COMPRESSOR	—	—	—

## Start Capacitors

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96729	914-0008-51 145-174 MFD 220 VAC START CAPACITOR	—
1	EA	96732	914-0006-03 189-227 MFD 330 VAC START CAPACITOR	—
1	EA	96747	914-0036-04 145-174 MFD 250 VAC START CAPACITOR	—

## Copeland Run Capacitors

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94556	12917 30MFD 370V RUN CAP OVAL	—
1	EA	96749	914-0037-09 25 MFD 370 VAC RUN CAPACITOR	—
1	EA	96750	914-0037-11 35 MFD 370 VAC RUN CAPACITOR	—
1	EA	96754	914-0037-18 40 MFD 440 VAC RUN CAPACITOR	—

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**Mars Run Capacitors**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	94564	12925 50MFD 370V RUN CAP OVAL	—	—
1	EA	94587	12943 35MFD 440V RUN CAP OVAL	—	—

**Relays**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96710	940-0001-54 START RELAY	—
1	EA	96711	940-0001-55 START RELAY	—
1	EA	96712	940-0001-60 START RELAY	—
1	EA	96716	940-0001-68 START RELAY	—



## ZR Scroll Air Conditioning Compressors



- R-22 air conditioning compressors.
- ZR 28,000 to 125,000 BTU.
- 230 volt single and three phase.
- 460 volt three phase.
- ZR72 to 125 are good replacements for Tecumseh SFA compressor.

Model Number	Dimensions (In.)			Weight (Lbs.)	Suction	Discharge	Oil Type	BTU	Displacement	4 Year Warranty Extension
	L	W	H							
ZR108KC-TF5-950	10.38	11.23	21.00	132.0	1-3/8 Stub	7/8 Stub	AB	109000	1059.85	350.00
ZR108KC-TFD-950	10.38	11.23	21.00	132.0	1-3/8 Stub	7/8 Stub	AB	109000	1059.85	350.00
ZR11M3-TWC-961	12.57	14.06	21.17	212.0	1-3/8 Stub	7/8 Stub	AB	108000	1068.23	475.00
ZR11M3-TWD-961	12.57	14.06	21.17	212.0	1-3/8 Stub	7/8 Stub	AB	108000	1068.23	475.00
ZR125KC-TF5-950	10.38	11.23	21.00	135.0	1-3/8 Stub	7/8 Stub	AB	128000	1239.34	365.00
ZR125KC-TFD-950	10.38	11.23	21.00	135.0	1-3/8 Stub	7/8 Stub	AB	128000	1239.34	365.00
ZR12M3-TWC-961	12.57	14.06	21.17	221.0	1-3/8 Stub	7/8 Stub	AB	125000	1226.83	475.00
ZR12M3E-TWC-961	12.57	14.06	21.17	221.0	1-3/8 Stub	7/8 Stub	POE	125000	1226.83	475.00
ZR12M3E-TWD-961	12.57	14.06	21.17	221.0	1-3/8 Stub	7/8 Stub	POE	125000	1226.83	475.00
ZR16M3E-TWD-961	12.57	14.06	21.47	227.0	1-3/8 Stub	7/8 Stub	POE	154000	1515.33	530.00
ZR16M3E-TWC-961	12.57	14.06	21.47	227.0	1-3/8 Stub	7/8 Stub	POE	154000	1515.33	590.00
ZR16M3-TWD-961	12.57	14.06	21.47	227.0	1-3/8 Stub	7/8 Stub	AB	154000	1515.33	530.00
AR19M3E-TWD-961	12.63	13.75	23.30	236.0	2-1/4 Rotalock	1-3/4 Rotalock	POE	126000	1822.43	590.00
ZR19M3E-TWC-961	12.63	13.75	23.30	236.0	2-1/4 Rotalock	1-3/4 Rotalock	POE	185000	1822.43	590.00
ZR19M3-TWD-961	12.63	13.75	23.30	236.0	2-1/4 Rotalock	1-3/4 Rotalock	AB	190000	1822.43	590.00
ZR21K5-PFV-930	9.50	9.50	15.86	46.9	3/4 Stub	1/2 Stub	AB	27500	214.83	100.00
ZR25K5-PFV-800	9.50	9.50	15.86	50.1	3/4 Stub	1/2 Stub	AB	32800	252.66	100.00
ZR28K5-PFV-930	9.50	9.50	15.86	49.6	3/4 Stub	1/2 Stub	AB	36900	286.93	100.00
ZR32K5-PFV-930	9.50	9.50	15.86	49.9	3/4 Stub	1/2 Stub	AB	42600	326.91	100.00
ZR38K5-PFV-930	9.59	9.56	16.94	64.9	7/8 Stub	1/2 Stub	AB	48900	377.71	115.00
ZR42K5-PFV-800	9.59	9.56	19.94	68.3	7/8 Stub	1/2 Stub	AB	54800	419.27	125.00
ZR42K5-TF5-930	9.59	9.56	19.94	61.0	7/8 Stub	1/2 Stub	AB	55900	419.27	130.00
ZR42K5-TF5-960	9.59	9.56	19.94	61.0	7/8 Stub	1/2 Stub	AB	55900	419.27	130.00
ZR42K5-TFD-930	9.59	9.56	19.94	60.8	7/8 Stub	1/2 Stub	AB	55900	419.27	130.00
ZR48K5-PFV-930	9.59	9.56	16.94	70.9	7/8 Stub	1/2 Stub	AB	62100	469.71	150.00
ZR48K5-TF5-930	9.59	9.56	16.94	69.1	7/8 Stub	1/2 Stub	AB	62500	469.71	150.00
ZR48K5-TFD-800	9.59	9.56	16.94	64.2	7/8 Stub	1/2 Stub	AB	62500	469.71	150.00
ZR54K5-TFD-800	8.59	9.56	16.94	68.3	7/8 Stub	1/2 Stub	AB	69400	534.12	150.00
ZR54K5-TF5-800	9.59	9.56	16.94	68.4	7/8 Stub	1/2 Stub	AB	69400	534.12	170.00
ZR54K5-PFV-800	9.59	9.56	16.94	72.5	7/8 Stub	1/2 Stub	AB	69700	534.12	170.00
ZR57K3-PFV-930	9.48	9.71	17.75	90.0	7/8 Stub	1/2 Stub	AB	58000	572.40	150.00
ZR57K3-TF5-930	9.67	9.87	17.24	85.0	7/8 Stub	1/2 Stub	AB	58500	572.40	170.00
ZR57KC-TFD-930	9.48	9.71	17.75	80.0	7/8 Stub	1/2 Stub	AB	57500	572.40	170.00
ZR61K3-PFV-930	9.48	9.71	17.75	90.0	7/8 Stub	1/2 Stub	AB	62000	612.50	170.00
ZR61K3-TF5-930	9.67	9.87	17.24	84.0	7/8 Stub	1/2 Stub	AB	62000	612.50	170.00
ZR61K3-TFD-930	9.67	9.87	17.24	84.0	7/8 Stub	1/2 Stub	AB	62000	612.50	170.00
ZR68KC-TF5-930	9.48	9.71	17.75	86.0	7/8 Stub	1/2 Stub	AB	70000	689.79	170.00
ZR68KC-TFD-930	9.48	9.71	17.75	86.0	7/8 Stub	1/2 Stub	AB	70000	689.79	170.00
ZR72KC-TF5-950	9.48	9.71	17.75	85.0	7/8 Stub	1/2 Stub	AB	73500	727.10	170.00
ZR72KC-TFD-950	9.48	9.71	17.75	85.0	7/8 Stub	1/2 Stub	AB	73500	727.10	170.00
ZR84KC-TF5-950	10.38	11.23	18.75	126.0	1-1/8 Stub	7/8 Stub	AB	85500	842.31	325.00
ZR84KC-TFD-950	10.38	11.23	18.75	126.0	1-1/8 Stub	7/8 Stub	AB	85500	842.31	325.00
ZR90K3E-TWD-961	12.57	14.06	21.17	207.0	1-3/8 Stub	7/8 Stub	AB	89000	889.46	475.00
ZR94KC-TF5-950	10.38	11.23	18.75	125.0	1-1/8 Stub	7/8 Stub	AB	96500	942.81	325.00
ZR94KC-TFD-950	10.38	11.23	18.75	126.0	1-1/8 Stub	7/8 Stub	AB	96500	942.81	325.00

Continued on the Following Page

Continued from the Previous Page

**Compressors**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3-4	PC-3 5
1	EA	97478	ZR57K3-TFD-930 57,000 BTU 460-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97479	ZR68K3-TF5-930 68,000 BTU 230-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97480	ZR68K3-TFD-930 68,000 BTU 460-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97481	ZR84K3-TF5-950 84,000 BTU 230-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97482	ZR84K3-TFD-950 84,000 BTU 460-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97492	ZR57K3-PFV-930 57,500 BTU 230-1 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97493	ZR57K3-TF5-930 57,200 BTU 230-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97494	ZR61K3-PFV-930 61,200 BTU 230-1 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97496	ZR61K3-TF5-930 61,000 BTU 230-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97497	ZR61K3-TFD-930 61,000 BTU 460-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97499	ZR72K3-TF5-950 73,500 BTU 230-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97500	ZR72K3-TFD-950 73,500 BTU 460-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97501	ZR94K3-TF5-950 94,000 BTU 230-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97502	ZR94K3-TFD-950 94,000 BTU 460-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97503	ZR125K3-TF5-950 125,000 BTU 230-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97504	ZR125K3-TFD-950 125,000 BTU 460-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97505	ZR108K3-TF5-950 109,000 BTU 230-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97506	ZR108K3-TFD-950 109,000 BTU 460-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97562	ZR11M3-TWC-961 108,000 BTU 230-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97563	ZR11M3-TWD-961 108,000 BTU 460-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97564	ZR12M3-TWC-961 125,000 BTU 230-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97573	ZR12M3E-TWC-961 125,000 BTU 230-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97565	ZR12M3-TWD-961 125,000 BTU 460-3 R22 A/A SCROLL COMPRESSOR	—	—	—
1	EA	97574	ZR12M3E-TWD-961 125,000 BTU 460-3 R22 A/A SCROLL COMPRESSOR	—	—	—
1	EA	97575	ZR16M3E-TWC-961 154,000 BTU 230-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97567	ZR16M3-TWD-961 154,000 BTU 460-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97568	ZR19M3-TWC-961 185,000 BTU 230-3 R407 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97576	ZR19M3E-TWC-961 185,000 BTU 230-3 R407 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97569	ZR19M3-TWD-961 190,000 BTU 460-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97570	ZR16M3E-TWD-961 154,000 BTU -460-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97571	ZR19M3E-TWD-961 190,000 BTU 460-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97572	ZR90K3E-TWD-961 86,500 BTU 460-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97580	ZR21K5-PFV-800 21,000 BTU 230-1 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97581	ZR28K5-PFV-800 28,400 BTU 230-1 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97582	ZR32K5-PFV-800 32,600 BTU 230-1 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97583	ZR38K5-PFV-800 38,000 BTU 230-1 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97584	ZR42K5-TFD-800 42,200 BTU 460-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97585	ZR42K5-TF5-800 42,200 BTU 230-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97586	ZR48K5-PFV-800 48,200 BTU 230-1 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97587	ZR48K5-TF5-800 47,000 BTU 230-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97588	ZR25K5-PFV-800 25,000 BTU 230-1 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97589	ZR42K5-PFV-800 42,000 BTU 230-1 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97590	ZR48K5-TFD-800 48,000 BTU 460-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97591	ZR54K5-TFD-800 69,400 BTU 460-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97592	ZR54K5-TF5-800 54,000 BTU 230-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97593	ZR54K5-PFV-800 54,000 BTU 230-1 R22 A/C SCROLL COMPRESSOR	—	—	—

**Capacitor**

Use With Bercor	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
97492 and 97494	1	EA	96758	914-0037-38 80 MFD 370 VAC RUN CAPICITOR	—



# ZB Scroll Air Conditioning Compressors



- MT/HT wide capacity range
- Can be used in R-22, R-404A, R-507, and R-134a applications
- ZB 14,600 to 125,900 BTU
- 230 volt three phase (TF5)
- 460 volt three phase (TFD)
- Consult compressor performance curves for specific applications
- ZB compressors are excellent replacements for Tecumseh SFA compressors

Model Number	Dimensions			Weight (Lbs.)	Suction	Discharge	Oil Type	BTU	Displacement	5 Year Warranty Extension
	L	W	H							
ZB15KCE-TFD-940	9.50	9.50	15.04	56.0	3/4 Stub	1/2 Stub	POE	14600	252.29	300.00
ZB19KCE-TFD-940	9.50	9.50	15.04	60.0	3/4 Stub	1/2 Stub	POE	18400	291.06	300.00
ZB21KCE-TFD-940	9.50	9.50	15.93	60.0	3/4 Stub	1/2 Stub	POE	22100	367.01	325.00
ZB30KCE-TFD-950	10.12	9.67	17.23	78.0	7/8 Stub	1/2 Stub	POE	29600	497.78	325.00
ZB38KCE-TF5-950	10.12	9.67	17.23	82.5	7/8 Stub	1/2 Stub	POE	37000	612.50	350.00
ZB38KCE-TFD-965	10.12	9.67	17.23	82.5	7/8 Stub	1/2 Stub	POE	37000	612.50	350.00
ZB45KCE-TF4-965	10.12	9.67	17.23	87.0	7/8 Stub	1/2 Stub	POE	43900	727.10	365.00
ZB45KCE-TFD-950	10.12	9.67	17.23	87.0	7/8 Stub	1/2 Stub	POE	43900	727.10	350.00
ZB45KCE-TFD-965	10.12	9.67	17.23	87.0	7/8 Stub	1/2 Stub	POE	43900	727.10	365.00
ZB58KCE-TF5-950	10.38	11.19	18.80	85.0	1-1/8 Stub	7/8 Stub	POE	57700	942.69	365.00
ZB58KCE-TFD-950	10.38	11.19	18.80	85.0	1-1/8 Stub	7/8 Stub	POE	57700	942.69	365.00
AB66KCE-TF5-950	10.38	11.19	21.50	132.0	1-3/8 Stub	7/8 Stub	POE	65000	1059.85	365.00
ZB66KCE-TFD-950	10.38	11.19	21.50	132.0	1-3/8 Stub	7/8 Stub	POE	65000	1059.85	365.00
ZB76KCE-TF5-950	10.38	11.19	21.50	135.0	1-3/8 Stub	7/8 Stub	POE	77200	1239.34	365.00
ZB76KCE-TFD-950	10.38	11.19	21.50	135.0	1-3/8 Stub	7/8 Stub	POE	77200	1239.34	365.00
ZB88KCE-TF5-950	10.38	11.19	21.50	135.0	1-3/8 Stub	7/8 Stub	AB	135000	1415.80	475.00
ZB88KCE-TFD-950	10.38	11.19	21.50	135.0	1-3/8 Stub	7/8 Stub	AB	135000	1415.80	475.00

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3-4	PC-3 5
1	EA	97532	ZB15KCE-TFD-940 14600 BTUH 460-3 MT/HT SCROLL COMPRESSOR	—	—	—
1	EA	97533	ZB19KCE-TFD-940 18400 BTUH 460-3 MT/HT SCROLL COMPRESSOR	—	—	—
1	EA	97534	ZB21KCE-TFD-940 22100 BTUH 460-3 MT/HT SCROLL COMPRESSOR	—	—	—
1	EA	97550	ZB30KCE-TFD-950 30 MBTUH 460-3 MT/HT SCROLL COMPRESSOR	—	—	—
1	EA	97551	ZB38KCE-TF5-950 37 MBTUH 230-3 MT/HT SCROLL COMPRESSOR	—	—	—
1	EA	97552	ZB38KCE-TFD-965 37 MBTUH 460-3 MT/HT SCROLL COMPRESSOR	—	—	—
1	EA	97555	ZB45KCE-TF5-965 44 MBTUH R404A MT SCROLL REFR COMPRESSOR	—	—	—
1	EA	97553	ZB45KCE-TFD-950 44 MBTUH 460-3 MT/HT SCROLL COMPRESSOR	—	—	—
1	EA	97554	ZB45KCE-TFD-965 44 MBTUH 460-3 MT/HT SCROLL COMPRESSOR	—	—	—
1	EA	97535	ZB58KCE-TF5-950 94,000 BTU 230-3 MT/HT SCROLL COMPRESSOR	—	—	—
1	EA	97536	ZB58KCE-TFD-950 94,900 BTU 460-3 MT/HT SCROLL COMPRESSOR	—	—	—
1	EA	97537	ZB66KCE-TF5-950 108,000 BTU 230-3 MT/HT SCROLL COMPRESSOR	—	—	—
1	EA	97538	ZB66KCE-TFD-950 108,700 BTU 460-3 MT/HT SCROLL COMPRESSOR	—	—	—
1	EA	97539	ZB76KCE-TF5-950 125,900 230-3 MT/HT SCROLL COMPRESSOR	—	—	—
1	EA	97540	ZB76KCE-TFD-950 125,900 BTU 460-3 MT/HT SCROLL COMPRESSOR	—	—	—
1	EA	97541	ZB88KCE-TF5-950 142,800 BTU 230-3 R22 A/C SCROLL COMPRESSOR	—	—	—
1	EA	97542	ZB88KCE-TFD-950 142,800 BTU 460-3 R22 SCROLL A/C COMPRESSOR	—	—	—



## Compressor Oil Formulated for all Copeland Compressors



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	96630	998-E022-00 1 QUART COPELAND POE OIL	—
6	EA	96629	998-E022-01 1 GALLON COPELAND POE OIL	—
6	EA	96631	998-AB52-01 1 GALLON COPELAND ALKYL BENZENE OIL	—

**Copeland**  
brand products **Oil Pump**



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96805	998-0008-33 COPELAND OIL PUMP	—

**Copeland**  
brand products **Sentronic+**  
**Electronic Oil Pressure Safety Control**



- Eliminate capillary tubes, bellows and mechanical fittings.
- More reliable than mechanical sensing systems.
- Standard alarm system for instant notification.
- Unaffected by ambient temperature.
- Faster, easier to install.
- LED indicator of oil pressure condition.
- Sentronic 3 features sliding reset switch that visually indicates oil pressure trip.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96828	585-1076-02 SENTRONIC 3 MODULE AND SENSOR WITH GASKETS	—
1	EA	96829	998-0105-01 SENTRONIC MODULE(ONLY)	—

**Copeland**  
brand products **Voltage Monitor**  
**Protects Motors from Burnouts Caused by Voltage Fluctuations**



- Rugged, reliable, easy to install and program.
- Operate on all voltages from 190 to 630 VAC.
- Display line voltage, fault conditions and set points on one LCD screen.
- Store up to 25 fault occurrences for instant recall and analysis.
- Minimize unnecessary callbacks and shutdowns.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96619	085-0160-00 PHASE GUARD VOLTAGE MONITOR	—

**Copeland**  
brand products **Comfort Alert Diagnostics**  
**for Commercial Systems**



Commercial Comfort Alert is designed to work with 3-phase Copeland Scroll™ compressors that use internal motor protection. It works for both air conditioning and heat pump application, and can be used with either single stage or two-stage scroll compressors.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96826	943-0038-01 COMMERCIAL COMFORT ALERT	—





## Digital Scroll Compressor Control Module



Designed for single-phase Copeland Scroll digital compressors and three-phase Copeland Scroll digital and Discus digital compressors. Controller modulates digital compressors base on input from system controller which measures temperature, pressure, and humidity to determine needed compressor capacity. Controller also detects common system problems and flashes an "alert" LED to direct repair technicians to the root cause.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96821	543-0024-00 DIGITAL SCROLLS CONTROLLER MODULE	—



## Electronic Motor Protector



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96803	998-0524-10 TI# 41AA1600E SOLID STATE MODULE	—



## Commercial Pressure Controls Built for Ease of Installation and Service



- Single, dual and mini-pressure models.
- Single-pole, double-throw switches for maximum application flexibility; operation alarm.
- Fully protected against harsh environments.
- Simplified wiring; captive screws.
- Shielded, shock-resistant terminals.
- Easy override for system checkout or charging.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96572	985-CP1A-1K SINGLE POLE LOW PRESSURE CONTROL	—
1	EA	96573	985-CP1A-3A SINGLE POLE LOW PRESSURE CONTROLS	—
1	EA	96574	985-CP1A-3K SINGLE POLE LOW PRESSURE CONTROLS	—
1	EA	96575	985-CP1A-5A SINGLE POLE HIGH PRESSURE CONTROLS	—
1	EA	96576	985-CP1A-5K SINGLE POLE HIGH PRESSURE CONTROLS	—
1	EA	96578	985-CP1U-5K SINGLE POLE HIGH PRESSURE CONTROLS	—
1	EA	96579	985-CP2M-7A DUAL PRESSURE CONTROLS	—
1	EA	96580	985-CP2M-7K DUAL PRESSURE CONTROLS	—
1	EA	96581	985-CP3H-SB DIRECT MOUNT PRESSURE CONTROLS	—
1	EA	96582	985-CP3L-MS DIRECT MOUNT PRESSURE CONTROLS	—
1	EA	96583	985-CP3L-SS DIRECT MOUNT PRESSURE CONTROLS	—
1	EA	96584	985-CP3M-SB DIRECT MOUNT PRESSURE CONTROLS	—



## Protectors

### Motor Overload Protector

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96700	971-0092-18 PROTECTORS	—
1	EA	96701	971-0099-00 PROTECTORS	—
1	EA	96703	971-0369-15 PROTECTORS	—
1	EA	96704	971-0369-21 PROTECTORS	—
1	EA	96705	971-C100-01 PROTECTORS	—



**Potential (Start) Relays**

Copeland Model No.	GE Model No.	Mars Model No.	Pick-up Volts	Drop Out Volts	Continuous Volt Rating	Frequency
940-0001-48	3ARR3KC7M5	16093	150-160	15-45	130	60
940-0001-49	3ARR3T3E5	19008	340-360	50-100	290	60
940-0001-50	3ARR3T24E5	19008	340-360	55-125	336	60
940-0001-51	3ARR3T5P5	19008	170-180	35-77	221	60
940-0001-54	3ARR3KC10V5	16089	240-260	60-121	375	60
940-0001-55	3ARR3KC10S5	16023	190-200	40-105	375	60
940-0001-59	3ARR3KC6W5	16090	210-230	60-125	420	60
940-0001-60	3ARR3KC24S5	16091	190-200	55-115	383	60
940-0001-61	3ARR3T6D5	16086	320-340	60-121	420	60
940-0001-62	3ARR3KC5M5	16035	150-160	35-77	253	60
940-0001-64	3ARR3KC6A5	16098	260-280	60-121	420	60
940-0001-68	3ARR3T6V5	19008	240-260	60-121	420	60
940-0001-69	3ARR3KC4D5	16088	320-340	60-135	500	60
940-0001-79	3ARR3KC3P5	16152	170-180	40-90	332	60

**Relays**

Copeland Model No.	Texas Instruments Model No.	Max. Pick-up Amps	Min. Drop Out Amps
940-0088-00	6409-26-196	28.9	23.7
940-0088-02	N/A	17.4	14.3
940-0088-04	N/A	33.6	27.8
940-0090-00	3CR-206-174B	14.1	11.9
940-0090-01	3CR-206-181B	17.9	15.1
940-0090-04	3CR-206-191B	27.2	22.7
940-0090-06	3CR-206-189B	24.75	20.45
940-C411-80	N/A	16.7	14.0
940-C411-82	9660A-467-1822	17.8	14.9
940-C411-83	N/A	18.2	15.3

**Potential (Start) Relays**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96706	940-0001-48 RELAYS	—
1	EA	96707	940-0001-49 RELAYS	—
1	EA	96708	940-0001-50 RELAYS	—
1	EA	96709	940-0001-51 RELAYS	—
1	EA	96710	940-0001-54 START RELAY	—
1	EA	96711	940-0001-55 START RELAY	—
1	EA	96712	940-0001-60 START RELAY	—
1	EA	96713	940-0001-61 RELAYS	—
1	EA	96714	940-0001-62 RELAYS	—
1	EA	96715	940-0001-64 RELAYS	—
1	EA	96716	940-0001-68 START RELAY	—
1	EA	96717	940-0001-69 RELAYS	—
1	EA	96718	940-0001-79 RELAYS	—
1	EA	96827	940-0001-59 START RELAY	—

**Relays**

1	EA	96719	940-0088-00 RELAYS	—
1	EA	96720	940-0088-02 RELAYS	—
1	EA	96721	940-0088-04 RELAYS	—
1	EA	96722	940-0090-00 RELAYS	—
1	EA	96723	940-0090-01 RELAYS	—
1	EA	96724	940-0090-04 RELAYS	—
1	EA	96725	940-0090-06 RELAYS	—
1	EA	96726	940-C411-80 RELAYS	—
1	EA	96727	940-C411-82 RELAYS	—
1	EA	96728	940-C411-83 RELAYS	—

# Copeland<sup>®</sup> brand products Capacitors

## Start Capacitors

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96730	914-0006-00 108-130 MFD 330 VAC START CAPACITOR	—
1	EA	96731	914-0006-01 130-156 MFD 330 VAC START CAPACITOR	—
1	EA	96732	914-0006-03 189-227 MFD 330 VAC START CAPACITOR	—
1	EA	96733	914-0006-07 145-174 MFD 250 VAC START CAPACITOR	—
1	EA	96734	914-0006-09 216-259 MFD 330 VAC START CAPACITOR	—
1	EA	96735	914-0006-10 270-324 MFD 330 VAC START CAPACITOR	—
1	EA	96736	914-0008-49 400-480 MFD 115 VAC START CAPACITOR	—
1	EA	96729	914-0008-51 145-174 MFD 220 VAC START CAPACITOR	—
1	EA	96737	914-0008-52 430-516 MFD 125 VAC START CAPACITOR	—
1	EA	96738	914-0008-61 88-106 MFD 220 VAC START CAPACITOR	—
1	EA	96739	914-0008-63 540-648 MFD 115 VAC START CAPACITOR	—
1	EA	96740	914-0008-66 108-130 MFD 220 VAC START CAPACITOR	—
1	EA	96741	914-0008-71 189-227 MFD 220 VAC START CAPACITOR	—
1	EA	96742	914-0008-72 64-77 MFD 250 VAC START CAPACITOR	—
1	EA	96743	914-0008-74 72-86 MFD 330 VAC START CAPACITOR	—
1	EA	96744	914-0008-79 270-324 MFD 165 VAC START CAPACITOR	—
1	EA	96745	914-0032-00 233-280 MFD 110 VAC START CAPACITOR	—
1	EA	96746	914-0032-06 233-280 MFD 125 VAC START CAPACITOR	—
1	EA	96747	914-0036-04 145-174 MFD 250 VAC START CAPACITOR	—
1	EA	96759	914-0053-00 145-175 MFD 165 VAC START CAPACITOR	—
1	EA	96760	914-0053-04 189-227 MFD 165 VAC START CAPACITOR	—

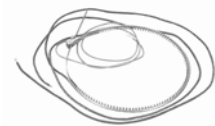
## Run Capacitors

1	EA	96748	914-0037-04 10 MFD 370 VAC RUN CAPACITOR	—
1	EA	96749	914-0037-09 25 MFD 370 VAC RUN CAPACITOR	—
1	EA	96750	914-0037-11 35 MFD 370 VAC RUN CAPACITOR	—
1	EA	96751	914-0037-12 40 MFD 370 VAC RUN CAPACITOR	—
1	EA	96752	914-0037-14 20 MFD 440 VAC RUN CAPACITOR	—
1	EA	96753	914-0037-15 25 MFD 440 VAC RUN CAPACITOR	—
1	EA	96754	914-0037-18 40 MFD 440 VAC RUN CAPACITOR	—
1	EA	96755	914-0037-21 55 MFD 440 VAC RUN CAPACITOR	—
1	EA	96756	914-0037-22 60 MFD 440 VAC RUN CAPACITOR	—
1	EA	96757	914-0037-23 25 MFD 480 VAC RUN CAPACITOR	—
1	EA	96758	914-0037-38 80 MFD 370 VAC CAPACITORS	—

# Copeland<sup>®</sup> brand products Crankcase Heaters



Crankcase Heater Thread Immersion Style



Wraparound Heater

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96602	918-0002-03 120V 100 W IMMERSION CRANKCASE HEATERS	—
1	EA	96607	918-0041-00 240V 70W 21" LEADS WRAPAROUND CC HEATER	—
1	EA	96608	918-0043-00 240V 70W 48" LEADS WRAPAROUND CC HEATER	—
1	EA	96609	918-0043-01 480V 70W 48" LEADS WRAPAROUND CC HEATER	—
1	EA	96610	918-0047-01 240V 90W 48" LEADS WRAPAROUND CC HEATER	—
1	EA	96611	918-0047-02 480V 90W 48" LEADS WRAPAROUND CC HEATER	—
1	EA	96808	998-7024-00 SCROLL COMPRESSOR JUNCTION BOX HEATER	—

**Copeland**  
brand products **Valve Plates**



Disc Valve Plate

Reed Valve Plate

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96585	998-0661-06 SOME EA SERIES VALVE PLATES	—
1	EA	96587	998-0661-09 9R SERIES VALVE PLATES	—
1	EA	96590	998-0661-51 4RH 4RK 6RH 6RK 6RP 8RP VALVE PLATES	—
1	EA	96591	998-0661-52 4RA-2000 4RE-2000 VALVE PLATES	—
1	EA	96593	998-1661-27 4D 6D SERIES VALVE PLATES	—
1	EA	96594	998-1661-28 4D 6D SERIES VALVE PLATES	—
1	EA	96597	998-1661-43 SOME 3D SERIES VALVE PLATES	—
1	EA	96598	998-1661-51 SOME 3D SERIES VALVE PLATES	—

**Copeland**  
brand products **Unloader Valves**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96620	998-0212-00 COMPRESSOR UNLOADER VALVES	—
1	EA	96621	998-0212-02 120 VOLT UNLOADER VALVES	—
1	EA	96622	998-0212-03 240 VOLT UNLOADER VALVES	—

**Copeland**  
brand products **Sight Glass Kit**

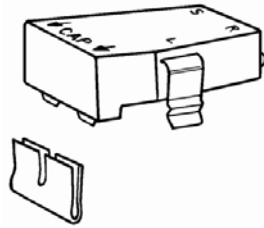
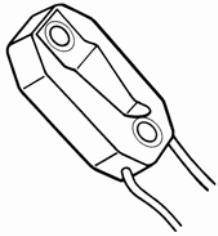
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96623	998-0002-02 SIGHT GLASS KIT	—
1	EA	96624	998-0002-04 SIGHT GLASS KIT	—

**Copeland**  
brand products **Service Valve Kits**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96632	998-0510-02 1-1/8" SWEAT 1-3/4 R SERVICE VALVE KITS	—
1	EA	96633	998-0510-06 5/8" SWEAT SERVICE VALVE KITS	—
1	EA	96634	998-0510-07 1-5/8" SWEAT X 2 1/2R SERVICE VALVE KITS	—
1	EA	96635	998-0510-09 1-1/8" SWEAT X 2 3/4R SERVICE VALVE KITS	—
1	EA	96636	998-0510-11 1-3/8" SWEAT 2 3/4 R SERVICE VALVE KITS	—
1	EA	96637	998-0510-12 7/8" SWEAT SERVICE VALVE KITS	—
1	EA	96638	998-0510-13 1-1/8" SWEAT X 1 5/8R SERVICE VALVE KITS	—
1	EA	96639	998-0510-20 2-1/8" SWEAT 3-1/16 SERVICE VALVE KITS	—
1	EA	96640	998-0510-22 1/2" FLARE X 1 5/8R SERVICE VALVE KITS	—
1	EA	96641	998-0510-23 5/8" FLARE 1 5/8R SERVICE VALVE KITS	—
1	EA	96642	998-0510-24 1/2" FLARE X 1 5/8R SERVICE VALVE KITS	—
1	EA	96643	998-0510-25 5/8" FLARE X 1 5/8R SERVICE VALVE KITS	—
1	EA	96644	998-0510-26 3/8" FLARE X 1 5/8 R SERVICE VALVE KITS	—
1	EA	96645	998-0510-90 7/8" SWEAT ROTALOCK SERVICE VALVE KITS	—
1	EA	96646	998-0510-40 1/2" FLARE X1R SERVICE VALVE KIT	—
1	EA	96647	998-0510-41 5/8" FLARE X1R SERVICE VALVE KITS	—
1	EA	96648	998-0510-42 3/8" FLARE X 1R SERVICE VALVE KITS	—
1	EA	96649	998-0510-44 1/2" SWEAT SERVICE VALVE KITS	—
1	EA	96650	998-0510-45 5/8" SWEAT SERVICE VALVE KITS	—
1	EA	96651	998-0510-46 1-3/8" SWEAT X 1-3/4R SERVICE VALVE KITS	—
1	EA	96815	998-0036-00 MALE 2 BOLT X 1 3/4R ROTALOCK ADAPTER	—
1	EA	96822	998-0034-15 1/2" ROTALOCK ADAPTOR	—
1	EA	96823	998-0034-02 7/8" ROTALOCK ADAPTOR	—



## Solid State Relays



### IC-G1

Replace thousands of models and parts. No starting contacts to pit or wear. May be directly substituted for contact starters. Acoustically and electrically noise free. Vibration and shock resistant. Long operating life.

- Lowest resistance solid state relay.
- Fastest cool down time of all solid state relays.
- Will restart a balanced system within one minute.
- Quick and easy to install.

### PO-115 Push-on Relays

- Replaces all push-on current type relays.
- For use on compressors with "pin type" terminals.
- Can be used on all capacitor and non-capacitor start motors.

### RCO-210, 410, 810

This all-in-one unit replaces all 3 electrical components; relay, overload and start capacitor on all capillary systems. It fits domestic and commercial refrigerators and freezers.

Voltage	HP	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
120	1/12 to 1/2	1	EA	94852	IC-G1 SOLID STATE RELAY	—
120	1/12 to 1/2	1	EA	94851	PO-115 PUSH ON RELAY	—
115	1/3 to 1/2	10	EA	94846	RCO210 1/3 - 1/2 HORSEPOWER RELAY, START CAPACITOR/OVERLOAD	—
115	1/4, 1/3	10	EA	94849	RCO410 RELAY CAP OVERLOAD	—
115	1/12 to 1/5	1	EA	94850	RCO810 RELAY CAP OVERLOAD	—



## Universal Replacement Relays



APR-5

### Universal relays replace all OEM potential relays

- Use on any single phase motor or air conditioning and refrigeration compressor up to 5 hp
- Wire to wire replacement for virtually all potential relays
- Recycles instantly
- Replaces both 3 and 5 terminal potential relays
- Normally closed contacts
- Accommodates screw-on or push-on connections
- Easy replacement mounting with universal mounting bracket
- Dimensions: 1.75 W x 2.25 L x 1.5 H



SUPR/PR90

### APR-5

- Adjustable, voltage sensitive relay
- Set pick-up voltage
- Safety time out 1.0-1.5 seconds

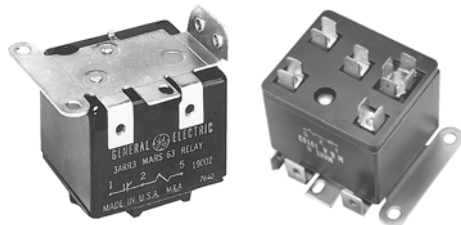
### SUPR/PR90

- Time function relay
- Start time: 1.0-1.5 seconds

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	94847	SUPR UNIV REPL POT RELAY	—
1	EA	94868	APR-5 ADJ POTENTIAL RELAY	—



## Series 190 Potential Relays



19002

19163

- Terminals are included for quick-connect applications.
- If different mounting bracket is required remove and use on new relay. Unused portions of the universal bracket may be broken off if not needed.
- Make certain all terminal screws of "push-on" terminals are tight.

Mars	WR/RBM No.	Tecumseh No.	GE Groups
19002, 19163	90-1, 90-17, 90-21, 90-63	P82963	2J, 2K, 2L, 2M, 5N, 7J, 7K, 7L, 7M, 7N, 8L, 8M, 8N
19003	90-4, 90-8, 90-11, 90-14, 90-22, 90-64	P82964	3A, 3B, 3AV, 3AU, 4A, 4B, 6A, 6B, 6AV, 10A, 10B, 10AU, 10AV
19004, 19165	90-3, 90-7, 90-40, 90-65	P82965	3P, 3R, 3AP, 5P, 5R, 5S, 5T, 22S
19005, 19166	90-13, 90-27, 90-66	P82966	3U, 3V, 3AT, 6U, 6V, 6W
19006, 19167	90-5, 90-6, 90-15, 90-19, 90-25, 90-67	P82967	3C, 3D, 3AA, 4C, 4D, 4BK, 6C, 6D, 6AA, 10C, 10D, 26A, 26B, 26C, 26D
19007, 19168	90-9, 90-12, 90-16, 90-20, 90-23, 90-68	P82968	3E, 3F, 3AB, 3AC, 4E, 4F, 4G, 6E, 6F, 6G, 10H, 10AB, 10AC, 26E, 26F, 26G, 26H, 27E, 27F, 27G
19008, 19169	90-10, 90-18, 90-24, 90-26, 90-41	P82969	3S, 3T, 10S, 10T, 10AS, 25S, 25T
19009	90-2	P82970	5B, 5C, 5D, 5AA, 8B, 8C, 8D
19010, 19171	90-69	P82971	6TV, 6TW, 10V

### Calibration Specification

Model No.	Continuous Coil Voltage	Pick-up Min.	Pick-up Max.	Drop-out Max.
19002	170	139	153	55
19003	395	260	275	120
19004	332	168	182	90
19005	395	215	225	120
19006	420	295	315	125
19007	502	325	345	135
19008	336	180	195	105
19009	253	285	305	77
19010	420	212	232	121
19163	170	139	153	55
19165	332	168	182	90
19166	395	215	225	120
19167	420	295	315	125
19168	502	325	345	135
19169	332	180	193	105
19171	420	212	232	121

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94900	19002 MARS 63 RELAY-CONTINUOUS VOLT.170 MIN.139/MAX.153	—
1	EA	94901	19003 MARS 64 RELAY-CONTINUOUS VOLT.395 MIN.260/MAX.275	—
1	EA	94902	19004 MARS 65 RELAY-CONTINUOUS VOLT.332 MIN.168/MAX.182	—
1	EA	94903	19005 MARS 66 RELAY-CONTINUOUS VOLT.395 MIN.215/MAX.225	—
1	EA	94904	19006 MARS 67 RELAY-CONTINUOUS VOLT.420 MIN.295/MAX.315	—
1	EA	94905	19007 MARS 68 RELAY-CONTINUOUS VOLT.502 MIN.325/MAX.345	—
1	EA	94906	19008 MARS 69 RELAY-CONTINUOUS VOLT.336 MIN.180/MAX.195	—
1	EA	94907	19009 MARS 70 RELAY-CONTINUOUS VOLT.253 MIN.285/MAX.305	—
1	EA	94908	19010 MARS 71 RELAY-CONTINUOUS VOLT.420 MIN.212/MAX.232	—
1	EA	94917	19163 MARS II 163 RELAY-CONTINUOUS VOLT.170 MIN.139/MAX.153	—
1	EA	94919	19165 MARS II 165 RELAY-CONTINUOUS VOLT.332 MIN.168/MAX.182	—
1	EA	94920	19166 MARS II 166 RELAY-CONTINUOUS VOLT.395 MIN.215/MAX.225	—
1	EA	94921	19167 MARS II 167 RELAY-CONTINUOUS VOLT.420 MIN.295/MAX.315	—
1	EA	94922	19168 MARS II 168 RELAY-CONTINUOUS VOLT.502 MIN.325/MAX.345	—
1	EA	94923	19169 MARS II 169 RELAY-CONTINUOUS VOLT.332 MIN.180/MAX.193	—



## Motor Start Capacitors



- Electrolytic capacitors for motor starting applications.
- 125, 250, 330 V.
- Smallest dimensions for general replacements.
- Hermetically sealed black Bakelite case permanently protects capacitor from oil, dirt, or moisture.

### 125 Volt

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	94476	11018 / 11918 233-280MFD 125V ROUND START CAPACITOR	—	—
1	EA	94480	11009 / 11909 88-108MFD 125V ROUND START CAPACITOR	—	—
1	EA	94481	11010 / 11910 108-130MFD 125 V ROUND START CAPACITOR	—	—
1	EA	94483	11112 / 11912 124-149MFD 125V START CAP	—	—
1	EA	94484	11013 / 11913 145-175MFD 125V ROUND START CAPACITOR	—	—
1	EA	94485	11014 / 11914 161-193MFD 125V ROUND START CAPACITOR	—	—
1	EA	94486	11015 / 11915 189-227MFD 125V ROUND START CAPACITOR	—	—
1	EA	94488	11017 / 11917 216-259MFD 125V ROUND START CAPACITOR	—	—
1	EA	94490	11019 / 11919 270-324MFD 125V ROUND START CAPACITORS	—	—
1	EA	94492	11021 / 11921 324-388MFD 125V ROUND START CAPACITOR	—	—
1	EA	94493	11022 / 11922 340-408MFD ROUND START CAPACITOR	—	—
1	EA	94494	11023 / 11923 378-440MFD 125V ROUND START CAPACITOR	—	—
1	EA	94495	11024 / 11924 400-480MFD 125V ROUND START CAPACITOR	—	—
1	EA	94496	11025 / 11925 460-552MFD 125V ROUND START CAPACITOR	—	—
1	EA	94497	11026 / 11926 540-648MFD 125V ROUND START CAPACITOR	—	—
1	EA	94498	11027 / 11927 590-708MFD 125V ROUND START CAPACITOR	—	—

### 250 Volt

1	EA	94504	11038 / 11938 21-25MFD 250V ROUND START CAPACITOR	—	—
1	EA	94509	11042 / 11942 43-53MFD 250V ROUND START CAPACITOR	—	—
1	EA	94511	11044 / 11944 72-87MFD 250V ROUND START CAPACITOR	—	—
1	EA	94512	11045 / 11945 88-108MFD 250V ROUND START CAPACITORS	—	—
1	EA	94513	11046 / 11946 108-130MFD 250V ROUND START CAPACITOR	—	—
1	EA	94515	11148 / 11948 124-156MFD 250V ROUND START CAPACITOR	—	—
1	EA	94516	11049 / 11949 145-174MFD 250V ROUND START CAPACITOR	—	—
1	EA	94517	11050 / 11950 161-193MF 250V ROUND START CAP	—	—
1	EA	94518	11051 / 11951 189-227MFD 250V ROUND START CAPACITOR	—	—
1	EA	94519	11052 / 11952 216-259MFD 250V ROUND START CAPACITOR	—	—

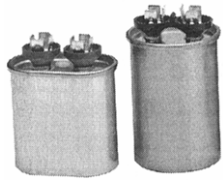
### 330 Volt

1	EA	94514	11064 / 11946 130-158MFD 330V ROUND START CAPACITOR	—	—
1	EA	94523	11055 / 11955 21-25MFD 330V START CAP	—	—
1	EA	94529	11060 / 11960 56-72MFD 330V ROUND START CAPACITOR	—	—
1	EA	94530	11061 / 11961 72-88MFD 330V ROUND START CAPACITOR	—	—
1	EA	94531	11062 / 11962 88-108MFD 330V ROUND START CAPACITOR	—	—
1	EA	94532	11063 / 11963 108-130MFD 330V ROUND START CAPACITOR	—	—
1	EA	94534	11965 / 11165 124-156MFD 330V ROUND START CAPACITOR	—	—
1	EA	94535	11966 145-174MFD 330V START CAP	—	—
1	EA	94536	11967 161-193MFD 330V START CAP	—	—
1	EA	94537	11968 189-227MFD 330V START CAP	—	—
1	EA	94538	11969 216-259MFD 330V START CAP	—	—
1	EA	94539	11970 270-324MFD 330V START CAP	—	—





## Motor Run Capacitors



- Single section run capacitors.
- Non-PCB capacitors. Physical interrupter makes this capacitor safe.
- Perfect for general replacements.
- Available in round and oval sizes.

### 370 Volt Round

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	94542	12904 4MFD 370V RUN CAPACITOR ROUND	—	—
1	EA	94559	12218 35MFD 370V RUN CAPACITOR ROUND	—	—
1	EA	94560	12721 40MFD 370V RUN CAP ROUND	—	—
1	EA	94567	12097 7.5MFD 370V RUN CAP ROUND	—	—

### 370 Volt Oval

1	EA	94520	12009 12.5 MFD 370V RUN CAP OVAL	—	—
1	EA	94543	12905 5MFD 370V RUN CAP OVAL	—	—
1	EA	94544	12906 6MFD 370V RUN CAP OVAL	—	—
1	EA	94545	12907 7.5MFD 370V RUN CAP OVAL	—	—
1	EA	94546	12908 10MFD 370V RUN CAP OVAL	—	—
1	EA	94548	12910 15MFD 370V RUN CAP OVAL	—	—
1	EA	94550	12912 17.5MFD 370V RUN CAP OVAL	—	—
1	EA	94552	12914 20MFD 370V RUN CAP OVAL	—	—
1	EA	94553	12915 25MFD 370V RUN CAP OVAL	—	—
1	EA	94556	12917 30MFD 370V RUN CAP OVAL	—	—
1	EA	94557	12918 35MFD 370V RUN CAP OVAL	—	—
1	EA	94563	12923 45MFD 370V RUN CAP OVAL	—	—
1	EA	94564	12925 50MFD 370V RUN CAP OVAL	—	—
1	EA	94629	12921 40MFD 370V RUN CAP OVAL	—	—

### 370 Volt Oval—Made in the USA

1	EA	94499	14005 USA 5MFD 370V RUN CAPACITOR OVAL	—	—
1	EA	94500	14007 USA 7.5MFD 370V RUN CAPACITOR OVAL	—	—
1	EA	94501	14008 USA 10MFD 370V RUN CAPACITOR OVAL	—	—
1	EA	94502	14009 USA 12.5MFD 370V RUN CAPACITOR OVAL	—	—
1	EA	94503	14010 USA 15MFD 370V RUN CAPACITOR OVAL	—	—

### 440 Volt Round

1	EA	94582	12237 20MFD 440V RUN CAPACITOR ROUND	—	—
1	EA	94588	12743 35MFD 440V RUN CAPACITOR ROUND	—	—
1	EA	94590	12745 40MFD 440V RUN CAPACITOR ROUND	—	—
1	EA	94592	12748 45MFD 440V RUN CAPACITOR ROUND	—	—
1	EA	94594	12251 50MFD 440V RUN CAPACITOR ROUND	—	—
1	EA	94595	12252 55MFD 440V RUN CAPACITOR ROUND	—	—
1	EA	94591	12807 7.5 MFD 440V RUN CAPACITOR ROUND	—	—

### 440 Volt Oval

1	EA	94571	12927 3MFD 440V RUN CAP OVAL	—	—
1	EA	94572	12928 4MFD 440V RUN CAP OVAL	—	—
1	EA	94573	12929 5MFD 440V RUN CAP OVAL	—	—
1	EA	94576	12932 10MFD 440V RUN CAP OVAL	—	—
1	EA	94578	12934 15MFD 440V RUN CAP OVAL	—	—
1	EA	94581	12937 20MFD 440V RUN CAP OVAL	—	—
1	EA	94583	12940 25MFD 440V RUN CAP OVAL	—	—
1	EA	94585	12941 30MFD 440V RUN CAP OVAL	—	—
1	EA	94586	12041 30MFD 440V RUN CAPACITOR OVAL	—	—
1	EA	94587	12943 35MFD 440V RUN CAP OVAL	—	—
1	EA	94596	12950 55MFD 440V RUN CAP OVAL	—	—
1	EA	94600	12949 50MFD 440V RUN CAP OVAL	—	—
1	EA	94628	12051 60MFD 440V RUN CAP OVAL	—	—
1	EA	94636	12951 60MFD 440V RUN CAP OVAL	—	—
1	EA	94637	12948 45MFD 440V RUN CAP OVAL	—	—
1	EA	94638	12945 40MFD 440V RUN CAP OVAL	—	—



## Series 120 Dual Section Motor Run Capacitors



- Dual section run capacitors are used primarily to serve two microfarad applications.
- Non PCB capacitors. Physical interrupter makes this capacitor safe.
- Perfect for general replacements.

### 370 Volt Oval

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH	PC-2 10
1	EA	94603	12956 15/4MFD 370V DUAL CAP OVAL	—	—
1	EA	94604	12957 15/5MFD 370V DUAL CAP OVAL	—	—
1	EA	94610	12963 20/5MFD 370V DUAL CAP OVAL	—	—
1	EA	94612	12965 25/4MFD 370V DUAL CAP OVAL	—	—
1	EA	94616	12969 30/5MFD 370V DUAL CAP OVAL	—	—
1	EA	94619	12972 35/5MFD 370V DUAL CAP OVAL	—	—
1	EA	94620	12856 60/7.5 MFD 370V DUAL CAP OVAL	—	—
1	EA	94639	12156 60/7.5 MFD 370V DUAL CAP OVAL	—	—

### 440 Volt Oval

1	EA	94621	12884 25/5 MFD 440V DUAL CAP OVAL	—	—
1	EA	94622	12983 20/15MFD 440V DUAL CAP OVAL	—	—
1	EA	94623	12885 35/5 440V DUAL CAP OVAL	—	—
1	EA	94625	12986 40/5 MFD 440V DUAL CAP OVAL	—	—
1	EA	94626	12890 45/5 MFD 440V DUAL CAP OVAL	—	—
1	EA	94627	12808 50/5 MFD 440V DUAL CAP OVAL	—	—

### 440 Volt Round

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	64442	12783 35/5 MFD 440V DUAL ROUND CAPACITOR CAP050350440RSS	—
1	EA	64443	12792 55/5 MFD 440V DUAL ROUND CAPACITOR CAP050550440RTS	—
1	EA	64444	12778 25/5 MFD 440V DUAL ROUND CAPACITOR CAP050250440RSS	—
1	EA	64446	12788 45/5 MFD 440V DUAL ROUND CAPACITOR CAP050450440RTS	—
1	EA	64447	12781 30/5 MFD 440V DUAL ROUND CAPACITOR CAP050300440RSS	—
1	EA	64829	12786 40/5 MFD 440V DUAL ROUND CAPACITOR CAP050400440RTS	—



## Dual Capacitors



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	61052	80K47 R38514D007 40/7.5 MFD @ 440V ROUND DUAL CAPACITOR	—
1	EA	61053	89M82 100335-14 45/7.5 MFD @ 440V ROUND START CAPACITOR R38514D008	—
1	EA	62199	40W01 50M72 R20394208 50/5 MFD @ 370 RND DUAL CAPACITOR R38514D018	—
1	EA	63014	56M97 25/5 MFD @ 370V DUAL CAPACITOR R38514D002	—
1	EA	63015	89M70 100335-02 30/5MFD @ 370V ROUND START CAPACITOR R38514D003	—
1	EA	63016	89M73 100335-05 35/5 MFD @ 370V ROUND START CAPACITOR R38514D004	—
1	EA	63040	89M84 60/7.5 MFD@370V CAPACITOR R38514D013 100335-16	—
1	EA	63041	89M91 100335-24 80/7.5 @ 370V ROUND START CAPACITOR R38514D014	—
1	EA	69173	41W15 45/5 MFD @ 370V CAPACITOR R38514D011 89M79	—
1	EA	69174	76K02 60/5 MFD @ 370V RUN CAPACITOR R38514D016	—



# Universal Capacitors

## Turbo 200, Turbo 200-Mini and Turbo 200 X



### Turbo 200

- Application: For HVACR repair and maintenance work.
- Replaces: More than 200 different capacitors.

### Turbo 200-Mini

- Application: Fan-size motor-run capacitors.
- Replaces: 3, 4, 5, 6, 7.5, 10, or 12.5 MFD at 370VAC or 440VAC

### Turbo 200 X

- Application: For HVACR repair and maintenance work.
- Replaces: More than 200 different capacitors.

Specifications	Turbo 200	Turbo 200-Mini	Turbo 200 X
<b>Voltage Rating</b>	370VAC or 440VAC	370VAC or 440VAC	370VAC or 440VAC
<b>Value Range</b>	2.5 mfd to 67.5 mfd	2.5 mfd to 12.5 mfd	70.0 mfd to 97.5 mfd
<b>Can Size (In.)</b>	Round 2-1/2 x 4-1/2	Round 1-3/4 x 2-5/16	Round 2-1/2 x 5-3/4

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
100	EA	94471	TURBO 200 2.5 MFD - 67.5 MFD UNIVERSAL VOLT. CAP.	—	—
50	EA	94472	TURBO 200 MINI 2.5 MFD - 15.0 MFD UNIVERSAL VOLT.CAP.	—	—
16	EA	94474	TURBO 200X 5.0 MFD - 97.5 MFD UNIVERSAL VOLT. CAP.	—	—



## Relay and Hard Start Capacitors



SPP5/6



SPP7



SPP8

### SSP5 Starter Pow-R-Pack and SPP6 Super Boost

- For room air conditioning units, residential and commercial PSC air conditioning units, and heat pumps.
- For all PSC air conditioning units from 4,000 through 60,000 BTU (1/2 through 5 HP).
- For severe low voltage or hard starting compressors.
- DO NOT USE on systems where the starting winding of the compressor is used for crankcase heat.

#### SPP5

- Increases starting torque up to 300%.
- Voltage: 120-230.
- Torque: 270 ounce inches.

#### SPP6

- Increases starting torque up to 500%.
- Voltage: 120-230.
- Torque: 390 ounce inches.

### SPP7 Relay and Hard Start Capacitor

Designed specifically for compressors that have PSC (permanent split capacitor) motors, from 1-1/2 to 10 HP. The SPP7 solid state relay with starting capacitor develops more than ten times the original torque and will solve most hard starting problems that are due to **low voltage or tight compressors**. **Super Boost SPP-7** does not alter the system's original specifications and allows all of the units' overload devices to operate freely.

### SPP8 Super Boost Starter

- Increases starting torque up to 690%.
- Can be used on 120 through 288 Vac Units.
- Use for severe low voltage or hard starting compressors.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	94856	SPP5 RELAY & HARD START CAP	—
1	EA	94857	SPP6 RELAY & HARD START CAP	—
10	EA	94855	SPP7S RELAY & HARD START CAP	—
1	EA	94867	SPP8(E) RELAY & HARD START CAP	—



## Surge Arrestor



Surge protection for dedicated electromechanical devices such as:

- Air conditioners
- Air handlers
- Motors
- Refrigeration systems
- Heat pumps
- Pumps
- Furnaces

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94869	SCM PLUS/SCM150 120-240V SINGLE PHASE SURGE ARRESTOR W/LIGHT	—



## ICM 800 Series Rapid Start Hard Start Kits



ICM803

The ICM803 and ICM805 operate by monitoring the compressor current upon start-up. The rapid start is able to engage the hard start capacitor for precisely the correct amount of time, ensuring maximum starting torque without the risk of supplying too much current into the start winding. A timed safety circuit is provided in the event the motor fails to start within 600 ms. Current sensing Hard Start precisely increases starting torque.

**Operating Range:** 95 to 288 Vac.

**Max. Input Voltage:** 502 Vac.



ICM850

The ICM850 differential voltage sensing units employ patented circuitry which monitors differential compressor auxiliary voltage, determines the state of the motor and precisely engages and disengages the start capacitor. These sensing units are suited for water coolers, vending machines, household refrigerators, commercial refrigeration, air conditioners, and heat pumps.

**Voltage:** 90 to 277 Vac.

**Max. Input Voltage:** 390 Vac.

**Range:** 1/12 to 10 HP

**Recommended Range:** 1/12 to 1 HP

**Operating Temperature Range:** -40 C to +65° C

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	76012	ICM803 1/2 TO 3 HP RAPID START-HARD START KIT	—
1	EA	76013	ICM805 3-5 HP RAPID START-HARD START KIT	—
1	EA	76020	ICM850 1/2-10HP 43-52MFD DIFFERENTIAL VOLTAGE SENSING DEVICE	—



## Capacitor Tester



Gives the MFD value on start and run capacitors from 1 to 10,000 MFD. Uses four AA 1.5 volt batteries.

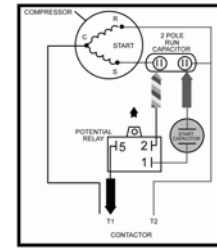
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82469	MFD-10 CAPACITOR TESTER	—

# 5-2-1 Compressor Saver

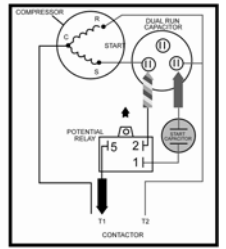


A 5-2-1 Compressor Saver® significantly reduces the amount of time your compressor is on high amp start-up. The 5-2-1 Compressor Saver® uses a powerful multi-layer starting capacitor and a smart switch to give your compressor the boost it needs to start up quickly, more reliably, and draw less power. It could add years to the life of a compressor and other electrical components associated with the A/C system as well as save money on power usage.

2 POLE RUN CAPACITOR



DUAL RUN CAPACITOR



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
25	EA	94000	CSRU1 1-3 TON 88 -108MFD COMPRESSOR SAVER HARD START KIT	—	—
25	EA	94001	CSRU2 3.5-5 TON 189-227MFD COMPRESSOR SAVER HARD START KIT	—	—
1	EA	94002	CSRU3 4-5 TON 270-324MFD COMPRESSOR SAVER HARD START KIT	—	—

# MARS Bleed Resistors



93007



93106

The bleed resistor is a very small, additional, low cost insurance against the possibility of expensive service calls to replace blown capacitors, and perhaps a compressor.

**93007**

- 15,000 ohm bleed resistor
- 2 watt (± 20%)
- For all start capacitors

**93008**

- 220,000 ohms bleed resistor
- 1 watt (± 20%)
- For Pyranol (run) capacitors

**93106**

- 15,000 ohm
- 2 watt
- With .25 in. female spade connectors
- For start capacitors

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	94645	93007 15000 OHM BLEED RESISTOR	—
1	EA	94646	93008 220000 OHM BLEED RESISTOR	—
1	EA	94647	93106 QC-13 15K OHM BLEED RESISTOR	—



## Compressors and Condensing Units



4 Cylinder



6 Cylinder

- Suitable for coupling and belt drive.
- Careful balancing of mechanical parts ensure minimal vibration and running noise.
- Highly efficient, robust valve plate design.
- Special oil return system ensures low oil migration.
- Easy maintenance.

### Compressors

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	92150	2N.2Q OPEN DRIVE COMPRESSOR	—
1	EA	92151	2N.2YQ OPEN DRIVE COMPRESSOR	—
1	EA	92152	2T.2Q OPEN DRIVE COMPRESSOR	—
1	EA	92153	2T.2YQ BSE55 OPEN DRIVE COMPRESSOR KIT	—
1	EA	92154	4H.2Q OPEN DRIVE COMPRESSOR	—
1	EA	92155	4H.2YQ OPEN DRIVE COMPRESSOR	—
1	EA	92165	4N.2Q OPEN DRIVE COMPRESSOR	—
1	EA	92160	4N.2YQ OPEN DRIVE COMPRESSOR	—
1	EA	92161	4T.2Q OPEN DRIVE COMPRESSOR	—
1	EA	92162	4T.2YQ BSE55 OPEN DRIVE COMPRESSOR KIT	—
1	EA	92159	6F.2YQ OPEN DRIVE COMPRESSOR	—
1	EA	92157	6H.2YQ OPEN DRIVE COMPRESSOR	—

### Condensing Units

1	EA	92164	QDTW7-4N10-B 134A 460 3PH CONDENSING UNIT	—
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### Core Charge

1	EA	92166	\$500 CORE CHARGE FOR BITZER EQUIPMENT	—
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**Tecumseh** Compressors—Refrigeration  
R-12 Low Temperature

Bercor Number	Refrigerant	BTU Capacity	Motor Torque	Warranty Bercor Number
91756	R-12	1,050	High	91696/91688
91790	R-12	1,300	Normal	91696/91688
91793	R-12	2,200	High	91696/91688

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	91688	NO GWB EXT WARR PURCHASED	—
1	EA	91696	4 YR LTD WARR	—
1	EA	91790	AEA2415AAB 1/3 HP 1-115 R12 COMP	—
1	EA	91793	AJA2425AXA 1/2 HP 1-115 R12 COMP	—

**Tecumseh** Compressors—Refrigeration  
R-12 Medium Temperature

Bercor Number	Refrigerant	BTU Capacity	Motor Torque	Warranty Bercor Number
91809	R-12	4,400	High	91696/91688
91811	R-12	6,650	High	91696/91688
91812	R-12	6,650	High	91696/91688
91813	R-12	8,000	1 Phase	90461/91688

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	91688	NO GWB EXT WARR PURCHASED	—
1	EA	90461	4 YR LTD WARR	—
1	EA	91696	4 YR LTD WARR	—
1	EA	91802	AJB7465AXD 3/4 HP 1-230/208 R12 ROTOLOCK COMP	—
1	EA	91809	AJA7441AXA 1/2 HP 1-115 R12 COMP	—
1	EA	91811	AJA7465AXA 3/4 HP 1-115 R12 COMP	—
1	EA	91812	AJB7465AXD 3/4 HP 1-230/208 R12 SWEAT COMP	—
1	EA	91813	AHA7480AXD 1 HP 1-230/208 R12 COMP	—

**Tecumseh** Compressors—Refrigeration  
R-12 High Temperature

Bercor Number	Refrigerant	BTU Capacity	Motor Torque	Warranty Bercor Number
91908	R-12	3,100	Normal High	91692/91688
91825	R-12	3,100	High	91692/91688
91826	R-12	4,000	High	91693/91688
91909	R-12	4,000	High	91692/91688
91828	R-12	6,100	High	90476/91688
91830	R-12	9,150	High	91696/91688
91832	R-12	12,300	High	90457/91688

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	91688	NO GWB EXT WARR PURCHASED	—
1	EA	90457	4 YR LTD WARR	—
1	EA	90476	4 YR LTD WARR	—
1	EA	91825	AEA4430AXA 1/4 HP 1-115 R12 COMP	—
1	EA	91826	AEA4440AXA 1/3 HP COMP /SVC VLV	—
1	EA	91828	AJA4461AXA 1/2 HP 1-115 R12 COMP	—
1	EA	91830	AJA4492AXA 3/4 HP 1-115 R12 COMP	—
1	EA	91832	AJA4512AXD 1 HP 1-230/208 R12 COMP	—
1	EA	91908	AEA3430AXA 1/4 HP 1-115 R12 COMP	—
1	EA	91909	AEA4440AXA 1/3 HP COMP /NO VLV	—



## Tecumseh Compressors—Refrigeration

### R-22

Bercor Number	Refrigerant	BTU Capacity	Motor Type	Warranty Bercor Number
91731	R-22	15,000	High Torque	90461/91688
91775	R-22	46,500	PSC	90475/91688

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	91688	NO GWB EXT WARR PURCHASED	—
1	EA	90461	4 YR LTD WARR	—
1	EA	90464	4 YR LTD WARR	—
1	EA	90475	4 YR LTD WARR	—
1	EA	91731	AJB5515EXD 1 HP 1-230/208 R22 COMP	—
1	EA	91775	AVA5546EXN 3 1/2 HP 1-230/208 R22 COMP	—

## Tecumseh Compressors—Refrigeration

### R-134a Low and High Temperature

Bercor Number	Refrigerant	BTU Capacity	Motor Torque	Warranty Bercor Number
92014	R-134A	3,000	High	91693/91688
91919	R-134A	3,960	High	91692/91688
92015	R-134A	3,960	High	91693/91688
92074	R-134A	4,800	High	91693/91688
92100	R-134A	12,000	High	90460/91688

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	91688	NO GWB EXT WARR PURCHASED	—
1	EA	91692	4 YR LTD WARR	—
1	EA	91693	4 YR LTD WARR	—
1	EA	91919	AEA4440YXA 1/3 HP R134A COMP SWEAT CONN	—
1	EA	92014	AEA4430YXA 1/4 HP 1-115 R134A COMP	—
1	EA	92015	AEA4440YXA 1/3 HP 1-115 R134A COMP W/ VALVE	—
1	EA	92074	AEA4448YXA 1/3 HP 1-115 R134A COMPRESSOR	—
1	EA	92100	AJA4512YXD 1 HP 1-230/208 R134A COMPRESSOR	—

## Tecumseh Compressors—Refrigeration

### R-404A Low Temperature

#### Note:

- It is acceptable to use R-507 in Tecumseh R-404A or R-507 compressors and condensing units.
- R-502 can be used in Tecumseh R-404A compressors and condensing units, but R-404A in Tecumseh R-502 compressors and condensing units is not acceptable.
- When R-502 is used in R-404A products, a sticker indicating the refrigerant used must be affixed to the compressor.

Bercor Number	Refrigerant	BTU Capacity	Motor Torque	Warranty Bercor Number
92018	R-404A	1,100	High	90456/91688
92051	R-404A	9,000	High	90459/91688

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	91688	NO GWB EXT WARR PURCHASED	—
1	EA	90456	4YR LTD WARR	—
1	EA	90459	4 YR LTD WARR	—
1	EA	92018	AEA2411ZXA 1/3HP 1-115 R404A COMP	—
1	EA	92051	AVA2490ZXN 2HP 230-1 R404A COMP	—

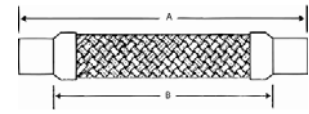


**4 Year Extended Warranties  
For Compressors**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	91688	NO GWB EXT WARR PURCHASED	—
1	EA	90456	4YR LTD WARR	—
1	EA	90457	4 YR LTD WARR	—
1	EA	90458	4 YR LTD WARR	—
1	EA	90459	4 YR LTD WARR	—
1	EA	90460	4 YR LTD WARR	—
1	EA	90461	4 YR LTD WARR	—
1	EA	90462	4 YR LTD WARR	—
1	EA	90463	4 YR LTD WARR	—
1	EA	90464	4 YR LTD WARR	—
1	EA	90465	4 YR LTD WARR	—
1	EA	90467	4 YR LTD WARR	—
1	EA	90469	4 YR LTD WARR	—
1	EA	90470	4 YR LTD WARR	—
1	EA	90471	4 YR LTD WARR	—
1	EA	90472	4 YR LTD WARR	—
1	EA	90473	4 YR LTD WARR	—
1	EA	90474	4 YR LTD WARR	—
1	EA	90475	4 YR LTD WARR	—
1	EA	90476	4 YR LTD WARR	—
1	EA	91679	4 YR LTD WARR	—
1	EA	91680	4 YR LTD WARR	—
1	EA	91682	4 YR LTD WARR	—
1	EA	91685	4 YR LTD WARR	—
1	EA	91686	4 YR LTD WARR	—
1	EA	91687	4 YR LTD WARR	—
1	EA	91690	4 YR LTD WARR	—
1	EA	91691	4 YR LTD WARR	—
1	EA	91692	4 YR LTD WARR	—
1	EA	91693	4 YR LTD WARR	—
1	EA	91694	4 YR LTD WARR	—
1	EA	91695	4 YR LTD WARR	—
1	EA	91696	4 YR LTD WARR	—
1	EA	91697	4 YR LTD WARR	—



## Vibration Absorbers



Model Number	Fitting Size Inches	Dimension "A"		Dimension "B"		Max. Working Pressure		Application
		Inches	mm	Inches	mm	Psig	bar	
VAB-4SS	1/2	9	228.6	7-1/2	190.5	525	36.2	High and

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	95932	VAB4SS 1/2IN ODF VIBRATION ABSORBER	—



## Vibration Absorbers



Model No.	O.D. (In.)	I.D. (In.)	Overall Length (In.)	Max. Working Pressure (PSIG)
VAB5	5/8	1/2	9-3/4	500
VAB6	3/4	5/8	10	500
VAB8	7/8	3/4	11-1/2	500
VAB9	1-1/8	1	13	500

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	76869	VAB5 5/8IN OD VIBRATION ABSORBER STAINLESS STEEL	—
1	EA	76864	VAB6 3/4IN OD VIBRATION ABSORBER STAINLESS STEEL	—
1	EA	76862	VAB8 7/8IN OD VIBRATION ABSORBER STAINLESS STEEL	—
1	EA	76863	VAB9 1 1/8IN OD VIBRATION ABSORBER STAINLESS STEEL	—

## Finny's Gasket Book

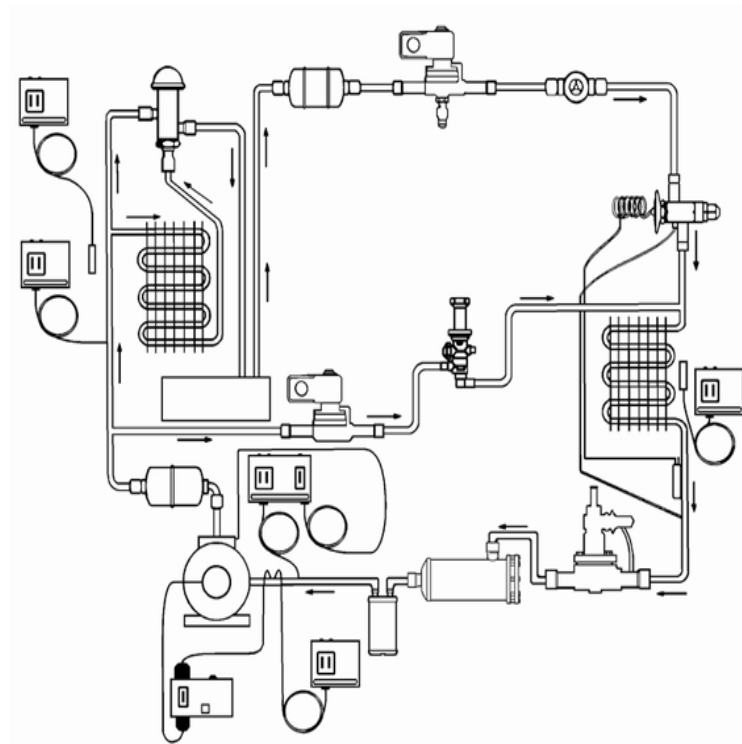


This array of 40 different gaskets replaces most common gaskets used today in expansion and solenoid valves and pumps. This fine gasket material Garlock replaces old gaskets on Sporlan, Penn, Alco, Jackes Evans, Parker, Mueller, Hamilton Pax, Henry and Primore.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	92710	GB10 FINNY'S GASKET BOOK	—



## Valves, Controls, and System Protectors



Note: Although not all Emerson Valves, Controls, and System Protectors are shown on the following pages, the entire line is available—ask your Berkheimer representative for details.

For extended capacities consult your complete Emerson Valves, Controls, and System Protectors catalog or ask your Berkheimer representative for details.



## Superheat Information

Bath Temperature	Code Letter
+32° F	A
+10° F	B
0° F	C
-10° F	D
-20° F	F

### Factory Superheat Setting

Unless otherwise specified, all valves will be preset at the factory at a bath temperature which is predetermined by the charge symbol and/or the MOP rating.

The bath temperature at which the valve superheat has been set is coded alphabetically in the superheat block on the valve nameplate, as shown in the table. Thus a valve with "10A" stamped in the nameplate superheat block has been set for 10° F static superheat with a 32° F bath. In like manner, a valve stamped "10C" has been set for 10° F static superheat with a 0° F bath.

### How to Determine Superheat

1. Determine suction pressure with accurate gauge at evaporator outlet. On close coupled installations, suction pressure may be read at a compressor suction connection.
2. From pressure-temperature tables, determine saturation temperature at observed suction pressure.
3. Measure temperature of suction gas at thermo valve remote bulb location.
4. Subtract saturation temperature read from tables in "Step 2" from temperature measured in "Step 3". Difference is superheat of suction gas



## A AE Expansion Valves



"A" Series Thermo Expansion Valves are used for heat pump, air conditioning, food service, and commercial applications. "A" Series valves provide stable and accurate control over a wide range of operating conditions.

### Features

- Hermetic construction eliminates external leakage
- Compact size allows installation in limited spaces
- Mass spectrometer tested to ensure less than 0.10 oz/year external leakage rate
- Stainless steel power element eliminates corrosion and prevents valve failure

### Specifications

- Maximum working pressure: 700 psig
- UL Recognized: SA5312

### Nomenclature Example: AA CEB 2 HC 30 IN 3/8 x 1/2 ODF ANG

A	A	C	E	B	2	H	C	30 IN	3/8 x 1/2		ODF	ANG
Valve Series	Superheat Adjustment	Internal Check Valve	Equalizer	Bleed Hole (Optional)	Capacity	Refrigerant Code	Charge Code	Capillary Tube Length	Inlet Connection Sizes	Outlet Connection Sizes	Connection Type	Configuration
	A=Adjustable N=Non-adjustable	(optional) Reverse flow bypass application	E= External (Omit for Internal)	Omit for no bleed hole	Nominal Rating in Tons See nominal capacity table	F=R-12 H=R-22 M=R-134a N=R-407C P=R-507 R=R-502 S=R-404A Z=R-410A	C=medium temp CA=heat pump (MOP)= press limiting Z=low temp AA=wide range	30 IN (std) other lengths are available	1/4 3/8 1/2 5/8	3/8 1/2 5/8 7/8	SAE= Flare ODF=solder Chatleff= optional Aeroquip= (optional)	S/T=straight thru ANG= 90° angle

### A AE HAA Range Expansion Valves for R-22

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	92600	AAE 2 1/2 HAA 3/8 X 1/2 ODF EXP VLV	—
1	EA	92601	AAE 5 HAA 3/8 X 1/2 ODF EXP VLV	—

### A AE ZW Expansion Valves for R-410A Air Conditioning Applications

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	92602	AAE 3 ZW 195 3/8 X 3/8 ODF S/T R410A WIDE RANGE A/C TXV	—	—
1	EA	92603	AAE 5 ZW 195 1/2 X 5/8 ODF S/T R410A WIDE RANGE S/C TXV	—	—

### A AE SZ Expansion Valves for R-404A

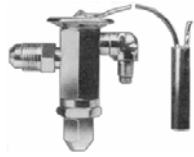
1	EA	92605	AAE 1/2 SZ 3/8 X 1/2 ODF S/T R404A EXPANSION VALVE	—	—
1	EA	92606	AAE 1 SZ 3/8 X 1/2 ODF S/T R404A EXPANSION VALVE	—	—
1	EA	92607	AAE 1-1/2 SZ 3/8 X 1/2 ODF S/T R404A EXPANSION VALVE	—	—
1	EA	92608	AAE 2 SZ 3/8 X 1/2 ODF S/T R404A EXPANSION VALVE	—	—

### A AE SW45 Expansion Valves for R-404A

1	EA	92609	AAE 1/2 SW45 3/8 X 1/2 ODF S/T R404A EXPANSION VALVE	—	—
1	EA	92610	AAE 1 SW45 3/8 X 1/2 ODF S/T R404A EXPANSION VALVE	—	—
1	EA	92611	AAE 1-1/2 SW45 3/8 X 1/2 ODF S/T R404A EXPANSION VALVE	—	—
1	EA	92612	AAE 2 SW45 3/8 X 1/2 ODF S/T R404A EXPANSION VALVE	—	—



## AFA Series Expansion Valves



The AFA is ideal for applications requiring compact size combined with stable accurate control over wide load and evaporator temperature ranges.

Compact unit designed for use in icemakers, salad bars, reach-in coolers. Direct replacement for Sporlan F Series Valves.

### With Internal Equalizers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	92447	AFA 1/4FC 1/4X3/8-1/2 FOOD SERVICE VLV	—
1	EA	92448	AFA 1/2FC 1/4X3/8-1/2 FOOD SERVICE VLV	—

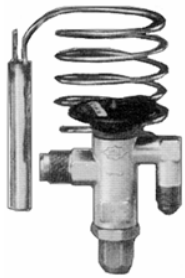
### With External Equalizers

1	EA	92468	AFAE 1/4RZ 1/4X1/2 SAE EXP VLV	—
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**EMERSON**  
Climate Technologies

## Super HF Series Balanced Port Expansion Valves



### HF Nomenclature

HF	E	S	C	2	H	C
Valve Series	External Equalizer	ODF Copper Connections	Removable Strainer	Capacity	Refrigerant Code	Charge Code
	(Omit for internal) N = Non-adjustable	(Omit for SAE)	(Optional ODF only)	Nominal Rating in Tons	M=R134a H=R22 R=R502 P=R507 S=R404A	C=med temp Z=low temp W=MOP (if needed)

### Features

Super HF thermostatic expansion valves feature a balanced port construction that provides stable and accurate superheat control over a wide range of operating conditions. Replace conventional TEVs with the Super HF. The Super HF improves superheat control, system operation, and valve stability.

- External superheat adjustment.
- Replaceable power element for added flexibility.
- Internal or external equalizer.
- Field-proven internal seal construction.
- Tailored bulb charges for specific applications.
- Interchangeable with conventional TEVs.
- Externally equalized valves have bi-flow capability.

### Application/Operation

The Super HF valve is currently replacing conventional TEVs on air conditioning and refrigeration systems with any combination of the following systems operating conditions.

- Widely varying evaporator loads.
- Widely varying head pressures.
- Widely varying pressure drop available across the thermostatic expansion valve and refrigerant distributor.

### For use with R-12, R-134a, FX-56, MP-39

Connection	Equalizer	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
Flare	Internal	1	EA	92431	HF 1 FC R-12 EXP VLV PCN# 054905	—	—
Flare	External	1	EA	92436	HFE 1 FC R-12 EXP VLV	—	—
Flare	External	1	EA	92437	HFE 2 FC R-12 EXP VLV	—	—
Flare	Internal	1	EA	92456	HF 1/2 FC R-12 EXP VLV	—	—
Flare	External	1	EA	92460	HFE 1/2 FC R-12 EXP VLV	—	—
Flare	External	1	EA	92461	HFE 1 1/2 FC R-12 EXP VLV	—	—
Flare	Internal	1	EA	92502	HF 1/4 FC R-12 EXP VLV	—	—

### For use with R-502, R-404A, R-507A, FX-10, HP-80

Flare	External	1	EA	92438	HFE 1 RC R-502 EXP VLV	—	—
Flare	External	1	EA	92439	HFE 2 RC R-502 EXP VLV	—	—
Flare	Internal	1	EA	92442	HF 1/2 RC R-502 EXP VLV	—	—
Flare	External	1	EA	92443	HFE 1 1/2 RC R502 EXP VLV	—	—
Flare	External	1	EA	92584	HFE 1 RW45 R-502 EXP VLV	—	—
Flare	External	1	EA	92585	HFE 1-1/2 RW45 R-502 EXP VLV	—	—

### R-502, R-404A, R-507A, FX-10, HP-80 Sweat Expansion Valves with Removable Strainer

Sweat	External	1	EA	92659	HFESC 1/2RW 45 EXP VLV	—	—
Sweat	External	1	EA	92660	HFESC 1 RW 45 EXP VLV	—	—



## HF Series Balanced Port Thermo® Expansion Valves

For Refrigeration Applications



The HF, an integral design valve, is small and compact, externally adjustable with a replaceable power assembly, internally or externally equalized. Refrigeration system manufacturers can now replace conventional TEVs with a new balanced port design TEV.

### Bulb Charge Selection Chart

Evaporator Temperature	Refrigerant		
	R-12	R-22	R-502
Med Temp (-20 to + 50° F)	FC	HC	RC
Low Temp (-50 to + 10° F)	FZ	HZ	RZ
MOP Low Temp (-50 to 0° F)	FW15	HW45	RW45
MOP Med Temp (0 to 40° F)	-	HW65	RW65

### For use with R-22

Connection	Equalizer	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
Flare	External	1	EA	92450	HFE 1/2 HC R-22 EXP VLV	—	—
Flare	Internal	1	EA	92452	HF 1/4 HC R-22 EXP VLV	—	—
Flare	Internal	1	EA	92453	HF 1 HC R-22 EXP VLV	—	—
Flare	External	1	EA	92454	HFE 1 HC R-22 EXP VLV	—	—
Flare	External	1	EA	92462	HFE 1 1/2 HC R-22 EXP VLV	—	—
Flare	External	1	EA	92500	HFE 2 HC R-22 EXP VLV	—	—
Flare	External	1	EA	92501	HFE 3 HC R-22 EXP VLV	—	—
Flare	Internal	1	EA	92503	HF 1/2 HC R-22 EXP VLV	—	—
Flare	External	1	EA	92506	HFE 5 1/2 HC R-22 EXP VLV	—	—
Flare	External	1	EA	92511	HFE 2 1/2 HC R-22 EXP VLV	—	—

### R-22 Expansion Valves with Removable Strainer—Best Selection for New Installations

Sweat	External	1	EA	92568	HFESC 1/2 HC R22 EXP VLV	—	—
Sweat	External	1	EA	92569	HFESC 1 HC R22 EXP VLV	—	—
Sweat	External	1	EA	92570	HFESC 1 1/2 HC R22 EXP VLV	—	—
Sweat	External	1	EA	92571	HFESC 2 HC R22 EXP VLV	—	—

### R-22 Expansion Valves Suitable for Refrigeration or Air Conditioning

Sweat	External	1	EA	92494	HFES 3 HC ANG EXP VLV	—	—
Sweat	External	1	EA	92508	HFES 5 1/2 HC EXP VLV	—	—
Sweat	External	1	EA	92562	HFES8HCA R-22 EXP VLV	—	—
Sweat	External	1	EA	92563	HFES10HCA R-22 EXP VLV	—	—





# HFES Thermo Expansion Valves

R-404A



### Specifications

- Maximum working pressure: 450 psig
- Operating Temperature: -40° to 50° F
- 5' capillary tube length (standard)

### Features

- Large, removable power element
- Balanced port construction compensates for changes in operating pressures due to varying ambients, gas defrost, heat reclaim, or widely varying evaporator loads
- Two body sizes provide capacities from 1/4 to 20 tons
- Bi-flow capability up to 5-1/2 tons R22 allows one valve to control the superheat in both cooling and heating modes for package unit heat pump applications
- Wrench flats on inlets and outlets (SAE only) for easy installation
- Stainless steel power element for maximum corrosion resistance

### Nomenclature Example: HFNESC B 2 HC 5 FT 3/8 x 1/2 ODF S/T

HF	N	E	S	C	B	2	H	C	5 FT	3/8 x 1/2	ODF	S/T
Valve Series	Superheat Adjustment	Equalizer	Correction Type	Removable Inlet Strainer	Bleed Hole	Capacity	Refrigerant Code	Charge Code	Capillary Tube Length	Inlet x Outlet Connection Sizes	Connection Type	Configuration
	N=Non-adjustable Omit for Adjustable	E=External (Omit for Internal)	S=Solder (Omit for SAE Flare)	C=Inlet Strainer (ODF only)	Omit for no bleed hole	Nominal Rating in Tons See nominal capacity table	F=R-12 H=R-22 M=R-134a P=R-507 R=R-502 S=R-404A	C=medium temp CA=heat pump W(MOP)=press limiting Z=low temp	5 FT (std) other lengths are available	Inlet: 1/4, 3/8, 1/2, 5/8 Outlet: 3/8, 1/2, 5/8, 7/8	SAE= Flare ODF=solder	S/T= straight thru ANG=90° angle

### HFES SZ R-404A Thermo Expansion Valve, Low Temp.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	92620	HFES 1/2 SZ 3/8 X 1/2 ODF ANG HF R404A EXPANSION VALVE	—	—
1	EA	92621	HFES 1 SZ 3/8 X 1/2 ODF S/T HF R404A EXPANSION VALVE	—	—
1	EA	92622	HFES 1-1/2 SZ 3/8 X 1/2 ODF S/T HF R404A EXPANSION VALVE	—	—

### HFES SW45 R-404A Thermo Expansion Valve with MOP Charge

1	EA	92624	HFES 1/2 SW45 3/8 X 1/2 ODF S/T HF R404A TXV W/45LB MOP	—	—
1	EA	92625	HFES 1 SW45 3/8 X 1/2 ODF S/T HF R404A TXV W/45LB MOP	—	—
1	EA	92626	HFES 1-1/2 SW45 3/8 X 1/2 ODF S/T HF R404A TXV W/45LB MOP	—	—
1	EA	92623	HFES 2 SZ 3/8 X 1/2 ODF S/T HF R404A EXPANSION VALVE	—	—
1	EA	92627	HFES 2 SW45 3/8 X 1/2 ODF S/T HF R404A TXV W/45LB MOP	—	—

### HFESC SC R-404A Thermo Expansion Valve with Cleanable Strainer, Medium Temp.

1	EA	92628	HFESC 1/2 SC 3/8 X 1/2 ODF HF R404A TXV	—	—
1	EA	92629	HFESC 1 SC 3/8 X 1/2 ODF HF R404A TXV	—	—
1	EA	92630	HFESC 1 1/2 SC 3/8 X 1/2 ODF HF R404A TXV	—	—
1	EA	92631	HFESC 2 SC 3/8 X 1/2 ODF HF R404A TXV	—	—



## HFK Service and Assembly Kits



The HFK is a pre-packaged kit consisting of a mix of popular bodies and power elements with a complete selection of cages. These kits provide great flexibility allowing valves to be assembled as needed for each application. Custom kits can be assembled by stocking an empty kit case with desired components.

**HRK Service Box Includes:**

- Cage Kit
- Service Box
- Insertion Tool

**HFK TXV Assembly Kit Includes:**

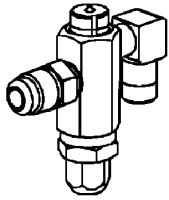
- HFKESC 3/8 x 1/2
- HFK 3/8 x 1/2
- HFKE 3/8 x 1/2
- HFKS 3/8 x 1/2
- HFKES 3/8 x 1/2
- Cage Kit
- Service Box
- Insertion Tool
- X26300-HC-1
- X26300-SZ1
- X26300-SC1
- X26300SW45-1
- X26300FC-1

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	92752	HFK TXV ASSEMBLY KIT PCN #066222	—
1	EA	92753	HFK SERVICE BOX W/ CAGE KIT AND INSERT TOOL	—

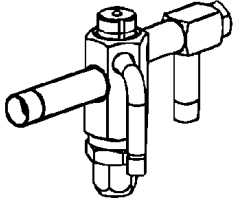


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## HFK Balanced Port Thermo® Expansion Valve



HFK



HFKESC

The new HFK features interchangeable bodies, cages, and power elements providing maximum flexibility. All HFK valves use a balanced port cage design that compensates for changes in operating pressures due to varying ambients, gas defrost, heat reclaim, or widely varying evaporator loads.

### Features

- Bi-flow capability
- Stainless steel power element
- Adjustable superheat
- Solid copper connections

### Options

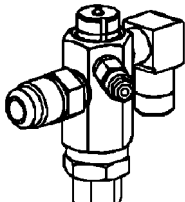
- ODF or SAE connections
- Straight-through or angle flow configurations
- Removable inlet strainer (ODF only)
- Internal or external equalizer

### Specifications

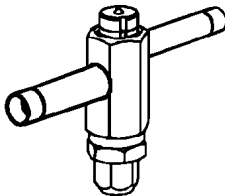
- Maximum working pressure: 450 psig
- Operating Temperature: -40° F to 50° F
- Use with R-22, R-134a, R404A, R-507, R-12, R-502

### HFK Assembly Procedure

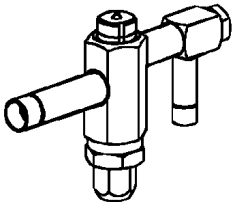
1. Remove adjusting stem from body.
2. Lubricate o-rings on cage.
3. Place cage into insertion tool (using 1/4" nut driver) and insert into body. (Do not over tighten).
4. Screw adjusting stem into bottom of body and hand tighten plus one wrench flat. (300-360 inch lbs.; do not over tighten.)
5. Attach cage identification clip on power element cap tube.
6. Screw power element onto top of body and hand tighten plus one wrench flat. (300-360 inch lbs.; do not over tighten.)



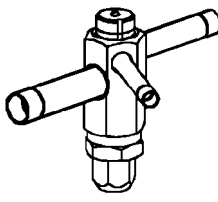
HFKE



HFKS



HFKSC



HFKES

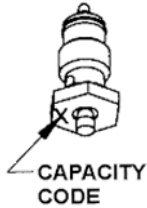
### Body Selection Table (Also choose cage and power element; see following page.)

Bercor Number	Product Code Number	Description	Type	Connections (Inlet x Outlet)
92743	064882	KT-20298-2	HFK	3/8 x 1/2 SAE Ang Inlet
92744	064884	KT-20298-4	HFKE	3/8 x 1/2 SAE Ang Inlet
92745	064885	KT20298-5	HFKSC	3/8 x 1/2 ODF Ang Inlet w/Strainer
92746	064886	KT-20298-6	HFKESC	3/8 x 1/2 ODF Ang Inlet w/Strainer
92747	064887	KT-20298-7	HFKS	3/8 x 1/2 ODF S/T
92748	064891	KT-20298-11	HFKES	3/8 x 1/2 ODF S/T
92754	064895	KT-20298-13	HFKES	1/2 x 5/8 ODF S/T

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	92743	KT-20298-2 HFK 3/8X1/2 FL. ANGLE BODY	—
1	EA	92744	KT-20298-4 HFKE 3/8X1/2 FL. ANGLE BODY	—
1	EA	92745	KT-20298-5 HFKSC 3/8X1/2 OD FL ANG BODY W/STRAINER	—
1	EA	92746	KT-20298-6 HFKESC 3/8X1/2 OD FL ANG BODY W/STRAINER	—
1	EA	92747	KT-20298-7 HFKS 3/8X1/2 OD FL ST. BODY	—
1	EA	92748	KT-20298-11 HFKES 3/8X1/2 OD FL ST BODY	—
1	EA	92754	KT-20298-13 HFKES 1/2X5/8 ODF S/T BODY	—



## Cages for HFK Balanced Port Thermo Expansion Valves



All HFK valves use a balanced port cage design that compensates for changes in operating pressures due to varying ambients, gas defrost, heat reclaim, or widely varying evaporator loads. The HFK is also available in pre-packaged kits consisting of a mix of popular bodies and power elements with a complete selection of cages.

**Cage Selection Table (First choose a valve body; see previous page.)**

Product Code Number	Description*	Cage Code	Nominal Capacity (Tons)						
			R-12	R-22	R-134a	R-404	R-507	R-502	R-407C
064868	KT-20299-0	0	1/8	1/4	1/4	1/8	1/8	1/8	1/4
064869	KT-20299-1	1	1/4	1/2	1/2	1/4	1/4	1/4	1/2
064870	KT-20299-2	2	1/2	1	3/4	1/2	1/2	1/2	1
064871	KT-20299-3	3	1	1-1/2	1	1	1	1	1-1/2
064872	KT-20299-4	4	1-1/4	2	1-1/2	1-1/4	1-1/4	1-1/4	2
064873	KT-20299-5	5	1-1/2	2-1/2	1-3/4	1-1/2	1-1/2	1-1/2	2-1/2
064874	KT-20299-6	6	2	3	2-1/2	2	2	2	3
064875	KT-20299-7	7	3-1/2	5-1/2	4	3-1/2	3-1/2	3-1/2	5-1/2

\* Cage kit includes cage, insertion tool, and ID clips.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	92732	KT-20299-0 1/8 R12/404A, 1/4 R22 CAGE	—
1	EA	92733	KT-20299-1 1/4 R12/404A, 1/2 R22 CAGE	—
1	EA	92734	KT-20299-2 1/2 R12/404A, 1 R22 CAGE	—
1	EA	92735	KT-20299-3 1 R12/404A, 1-1/2 R22 CAGE	—
1	EA	92736	KT-20299-4 1-1/4 R12/404A, 2 R22 CAGE	—
1	EA	92737	KT-20299-5 1-1/2 R12/404A, 2-1/2 R22 CAGE	—
1	EA	92738	KT-20299-6 2 R12/404A, 2-1/2 R22 CAGE	—
1	EA	92739	KT-20299-7 3 1/2 R12/404A, 5 1/2 R22 CAGE	—



## Power Assemblies for HFK Valves



- Larger diameter power element for better performance.
- Stainless steel power element provides superior corrosion resistance that prevents field failures.

**Power Element Selection**

Product Code Number	Description	Refrigerant Charge Code	Application
058085	X26300-SW45-1	R-404/R-507/R-502	Low Temp MOP
053763	X26300-FC-1	R-12/R-134a	Medium Temp
053764	X26300-HC-1	R-22/R-407C	A/C Med. Temp
058083	X26300-SC-1	R-404/R-507/R-502	Medium Temp
053767	X26300-HZ-1	R-22/R-407C	Low Temp
058082	X27300-SZ-1	R-404/R-507/R-502	Low Temp

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	92742	X26300-SW45-1 R404A LOW TEMP PRESS LMT POWER ASSEMBLY	—
1	EA	92533	X26300-FC-1 TXV POWER HEAD ASSBLY	—
1	EA	92521	X26300-HC-1 (KT 20013) POWER ASSY	—
1	EA	92740	X26300-SC-1 R404A MED. TEMP. POWER ASSEMBLY	—
1	EA	92522	X26300-HZ-1 (KT-20016) POWER ASSY	—
1	EA	92741	X26300-SZ-1 R404A LOW TEMP. POWER ASSEMBLY	—



## Maintenance Tools for HFK Valves

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STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	92749	HFK KT-20304 INSERTION TOOL	—
1	EA	92750	HFK OIL BOTTLE	—
1	EA	92751	HFK SOCKET DRIVER	—



## T Series Take-a-Part Thermo Valves

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### Less Body Flange



#### Features

- Take-a-part construction for easy field service.
- Interchangeable, replaceable cages for TEV versatility (1/4 to 100 tons capacity).
- Balanced, double-port design for smooth, stable control capability at low load conditions (down to 15% of nominal valve capacity.)
- Externally adjustable superheat.
- Large capacity series for air conditioning, refrigeration, and chiller applications where stable and accurate control over wide load and evaporator temperature ranges is required.

### TCL Series with External Equalizer

Replacement Cage Assembly	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
X22440B3B	1	EA	92510	TCLE2HC 2 TON R-22 VLV	—	—
X22440-B5B	1	EA	92552	TCLE5HC 5 TON R-22 VLV	—	—
X22440-B6B	1	EA	92566	TCLE71/2HC 71/2 TON R-22 VLV	—	—
X22440-B7B	1	EA	92599	TCLE 10 HC 10 TON R-22 VLV	—	—
X22440-B8B	1	EA	92604	TCLE 12 HC 12 TON R-22 VLV	—	—

### TJRE & TER Series with External Equalizer

X11873-B4B	1	EA	92618	TJRE14HC 14 TON R-22 VLV	—	—
X11873-B5B	1	EA	92619	TJRE18HC 18 TON R-22 VLV	—	—
X9117-B6B	1	EA	92635	TER22HC 22 TON R-22 VLV	—	—
X9117-B7B	1	EA	92636	TER26HC 26 TON R-22 VLV	—	—



## TCL(E) Old vs. New Nomenclature

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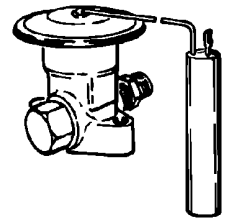
New cage assemblies are interchangeable with the old versions. Minor changes have been made in the construction of cage assemblies. The new constructions have been identified by a new cage assembly part number and a new valve type number.

Old Style				New Style			
Valve Type			Cage Assembly Part Number	Valve Type			Cage Assembly Part Number
R-12	R-22	R-502		R-12	R-22	R-502	
TCL(E)25F	TCL(E)50H	TCL(E)25R	XC709-B7*	TCL(E)1/4F	TCL(E)1/2H	TCL(E)1/4R	X22440-B1*
TCL(E)50F	TCL(E)100H	TCL(E)50R	XC709-B000*	TCL(E)1/2F	TCL(E)1H	TCL(E)1/2R	X22440-B2*
TCL(E)100F	TCL(E)200H	TCL(E)100R	XC709-B00*	TCL(E)1F	TCL(E)2H	TCL(E)1R	X22440-B3*
TCL(E)200F	TCL(E)300H	TCL(E)200R	XC709-B0*	TCL(E)2F	TCL(E)3H	TCL(E)2R	X22440-B4*
TCL(E)250F	TCL(E)400H	TCL(E)250R	XC709-B6*	TCL(E)3F	TCL(E)5H	TCL(E)3R	X22440-B5*
TCL(E)300F	TCL(E)500H	TCL(E)300R	XC709-B1*	TCL(E)3F	TCL(E)5H	TCL(E)3R	X22440-B5*
TCL(E)400F	TCL(E)700H	TCL(E)450R	XC709-B4*	TCL(E)4F	TCL(E)7-1/2H	TCL(E)4-1/2R	X22440-B6*
TCL(E)600F	TCL(E)900H	TCL(E)650R	XC709-B2*	TCL(E)6-1/2F	TCL(E)10H	TCL(E)7R	X22440-B7*
TCL(E)650F	TCL(E)1000H	TCL(E)700R	XC709-B3*	TCL(E)6-1/2F	TCL(E)10H	TCL(E)7R	X22440-B7*
TCL(E)750F	TCL(E)1200H	TCL(E)800R	XC709-B5*	TCL(E)7-1/2F	TCL(E)12H	TCL(E)8R	X22440-B8*

NOTE: Delete letter E from valve type for internally equalized valve.

\* Equalizer code letter A (internal) or B (external) is added to the basic numbers shown to make complete cage assembly part number.

**EMERSON** For T Series Valves  
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**Power Assembly Interchangeability Table (Gaskets Included)**

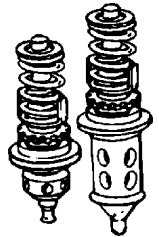
Valve Type	Power Assembly Number	Refrigerant Charge Code	Tubing Length Code (Ft.)	Equalizer Code
TCL TCLE TJLE TJR	XB1019*	R-12 = F R-22 = H R134a = M R404A = S R-502 = R	1=5 (Std.)	A=Internal
TER TIR THR			2=10 3=15 4=20	B=1-1/4 SAE External C=1/4 ODF External
	XC726		1=5	B=1/4 SAE External
			2=10 (Std.) 3=15 4=20	

Cap Length (Ft.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	1	EA	92758	XB-1019 HW100-1B R22 W/100 LB MOP POWER ASSEMBLY (T-SERIES)	—
5	1	EA	92762	XB-1019 MC-1B R134A POWER ASSEMBLY (T-SERIES)	—
5	1	EA	92765	XB-1019 MW551B R134A W/55MOP POWER ASSEMBLY (T-SERIES)	—
5	1	EA	92759	XB1019HC1B POWER ASSY R-22	—
5	1	EA	92771	XC726HC2B POWER ASSY R-22	—

NOTE: XB1033 Series replaced by XB1019 and matching adjustable cage assembly.

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**Cage Assemblies**



**Cage Assembly Interchangeability Table (Gaskets Included)**

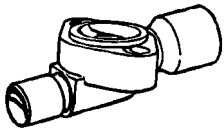
Valve Type	Cage Assembly		Nominal Capacity (Tons)			
	Old	New	R-12	R-22	R-502	R-500
TCL TCLE	XC709B7*	X22440B1*	1/4	1/2	1/4	1/4
	XC709B000*	X22440B2*	1/2	1	1/2	3/4
	XC709B00*	X22440B3*	1	2	1	1
	XC709B0*	X22440B4*	2	3	2	2-1/2
	XC709B6*	X22440B5*	3	5	3	4
	XC709B4*	X22440B6*	4	7-1/2	4-1/2	5
	XC709B2*	X22440B7*	6-1/2	10	7	7
	XC709B3*	X22440B7*	6-1/2	10	7	7
TJLE		XC724B4B	8	14	9	10
TJR		X11873B4B	8	14	9	10
		X11873B5B	11	18	12	14
TER		X9117B6B	13	22	14	15
		X9117B7B	15	26	16	18
		X9117B8B	20	35	21	25
		X9117B9B	25	45	27	30
TIR		X9166B10B	35	55	37	40
THR		X9144B11B	45	75	48	52
		X9144B13B	55	100	60	65

\* Add A for internal or B for external equalizer.

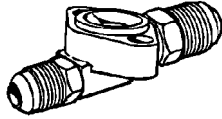
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	92711	X22440-B4B CAGE ASSY	—
1	EA	92717	X22440-B6B CAGE ASSY	—
1	EA	92718	X22440-B7B CAGE ASSY	—
1	EA	92724	X9117-B7B CAGE ASSY	—
1	EA	92730	X9144-B13B CAGE ASSY	—



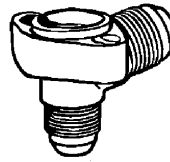
## Body Flanges



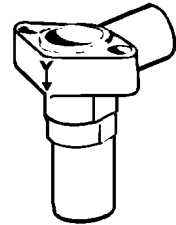
Style 1 Forged Type,  
Straight-through, Solder



Style 2  
Straight-through, SAE



Style 3  
Angle, SAE



Style 4 Angle, Solder  
Reverse Flow

### Interchangeability Table—Flange Style and Connections Available

Angle: SAE Style 1, ODF Style 2			
Valve Type	Connections		Body Flange Part No.
	Inlet	Outlet	
TCL, TCLE	3/8 SAE	1/2 SAE	C-500-4
TL	1/2 ODF	5/8 ODF	C501-7
TLE	5/8 ODF to 7/8 ODM	7/8 ODF to 1-1/8 ODM	A576

Straight-through: SAE Style 3, ODF Style 4			
Valve Type	Connections		Body Flange Part No.
	Inlet	Outlet	
TCL TCLE TL TLE	1/2 SAE	5/8 SAE	X6669-2
	3/8 ODF	5/8 ODF	9761-3
	1/2 ODF	5/8 ODF	9761-4
	1/2 ODF	7/8 ODF	9761-2
	5/8 ODF	7/8 ODF	X6346-17
	5/8 ODF	1-1/8 ODF	X6346-18
TJLE	7/8 ODF	1-1/8 ODF	X6346-34
	7/8 ODF	1-1/8 ODF	X6347-6
	7/8 ODF	1-3/8 ODF	X6347-7
TJR	7/8 ODF to 1-1/8 ODM	7/8 ODF to 1-1/8 ODM	10332
TER	7/8 ODF to 1-1/8 ODM	7/8 ODF to 1-1/8 ODM	9152
TIR	7/8 ODF to 1-1/8 ODM	7/8 ODF to 1-1/8 ODM	9150

NOTE: Unless listed above ODF outside dimension not controlled.

Connection	Style	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
3/8 ODF x 5/8 ODF	1	1	EA	92680	9761-3 3/8 X 5/8 SWEAT STR BODY FLANGE FOR TCLE VLV	—
1/2 ODF x 5/8 ODF	1	1	EA	92682	9761-4 1/2 X 5/8 SWEAT STR BODY FLANGE FOR TCLE VALVE	—
5/8 ODF x 7/8 ODF	1	1	EA	92683	X6346-17 5/8 X 7/8 SWEAT STR BODY FLANGE FOR TCLE VALVE	—
7/8 ODF x 1-1/8 ODF	1	1	EA	92698	X6346-34 7/8 X 1 1/8 STR BODY FLANGE FOR TCLE VALVE	—
7/8 ODF x 1-1/8 ODM	1	1	EA	92700	9150 STR BODY FLANGE	—
7/8 ODF x 1-1/8 ODM	1	1	EA	92820	9152 7/8ODFX1-1/8 ODM S/T FLANGE PS-259 PCN# 027918	—
7/8 ODF x 1-1/8 ODM	1	1	EA	92821	TJR2 10332 7/8ODF/1-1/8 ODM S/T FLANGE PS-259 PCN# 032988	—
3/8 SAE x 1/2 SAE	3	1	EA	92694	C-500-4 3/8 X 1/2 FLARE ANG BODY FLANGE FOR TCLE VALVE	—
1/2 ODF x 5/8 ODF	4	1	EA	92696	C-501-7 1/2 X 5/8 SWEAT ANG BODY FLANGE FOR TCLE VALVE	—
5/8 ODF x 7/8 ODM	4	1	EA	92697	A-576 5/8 OR 7/8 X 7/8 OR 11/8 ANG BODY FLANGE FOR TCLE VALVE	—



## Gasket Kit

For T Series Valves



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	92707	X13455-1 GASKET SET FOR TCLE VALVES	—



## TRAE "Plus" Thermostatic Expansion Valve



The TRAE Plus thermostatic expansion valve is a large capacity series designed for refrigeration and air conditioning applications. This series features a replaceable stainless steel power element, a fully interchangeable cage assembly, and a square body.

**Features**

- Removable power element and cage assembly for full service ability.
- Stainless steel power element for enhanced corrosion resistance.
- Double balanced port design improves valve operation and stability under low load conditions.

- Integral square body with straight through connections.
- Solid copper connections.
- External superheat adjustment.
- Large diaphragm provides superior stability.
- HCA charge designed especially for R-22 air conditioning applications.

R22/R407C Capacity (Tons)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
10	1	EA	92645	TRAE+ 10HC 5/8 X 7/8 ODF	—	—
15	1	EA	92646	TRAE+ 15HC 7/8 X 1-1/8 ODF	—	—
20	1	EA	92647	TRAE+ 20HCA 7/8 X 1-1/8 ODF	—	—
30	1	EA	92648	TRAE+ 30HC 7/8 X 1-1/8 ODF	—	—
40	1	EA	92649	TRAE+ 40HC 1-1/8 X 1-3/8 ODF	—	—





## Emerson to Sporlan System Protector Cross Reference

Sporlan	Emerson	PCN	Bercor
<b>Liquid Line Driers</b>			
NONE	ALF-032MF	057193	94284
C 032	EK 032	060009	94220
C 032 S	EK 032 S	060012	94221
C-032CAP-T	EK-032 SV CAP	063208	94216
C 052	EK 052	047601	94222
C 052 S	EK 052 S	047602	94292
C 053	EK 053	047603	94223
C 053 S	EK 053 S	047604	94234
C082	EK 082	047605	94224
C 082 S	EK 082 S	047606	94293
C 083	EK 083	047607	94225
C 083 S	EK 083 S	047608	94226
C 162	EK 162	047611	94229
C 162 S	EK 162 S	047612	94294
C 163	EK 163	047613	94230
C 163 S	EK 163 S	047614	94231
C 164	EK 164	047615	94232
C 164 S	EK 164 S	047616	94233
C 165 S	EK 165 S	047618	94236
C 303 S	EK 303 S	048211	94239
C 304	EK 304	048212	94241
C 304 S	EK 304 S	048213	94237
C 305	EK 305	048214	94242
C 305 S	EK 305 S	048215	94244
C 307 S	EK 307 S	048217	94251
C 414	EK 414	048220	94264
C 414 S	EK 414 S	048221	94271
C 415	EK 415	048222	94274
C 415 S	EK 415 S	048223	94275
C 417 S	EK 417 S	048224	94276
NONE	EK 757 S	048228	94278
NONE	EK 759 S	048229	94279
<b>Compact Suction Line Driers</b>			
C-145-S-TT-HH	CSFD 1455VV	062232	N/A
C-146-S-TT-HH	CSFD 1456VV	062233	N/A
C-147-S-TT-HH	CSFD 1457VV	062234	N/A
C-149-S-TT-HH	CSFD 1459W	062235	N/A
<b>Heat Pump Driers</b>			
HPC103	BFK-083	043324	N/A
HPC103S	BFK-083S	043323	94207
HPC104S	BFK-084S	043327	N/A
HPC163HH	BFK-163S	043333	94210
HPC164SHH	BFK-164S	043337	94211
<b>Oil Filters and Driers</b>			
NONE	AOFD 553	062829	94389
OF303	AOF303	064952	994390
ROF 413	AOF 023S	062784	N/A
<b>Manual Stem</b>			
ME6130 3/8	200RB-3T3M	065620	93064
ME6S 140 1/2 ODF	200RB-3T4M	065621	N/A
B6S1 3/8 ODF	200RB-4S3M	047512	N/A
ME6S140 1/2 ODF	300RB-4T4M	049187	93106
ME9S240 1/2 ODF	200RB-5T4M	049188	N/A
ME10S250 5/8 ODF	200RB-6T5M	047547	93071
ME14S250 5/8 ODF	240RA-8T5M	040845	93073
ME19S270 7/8 ODF	240RA-9T7M	043204	93075
ME25S290 1-1/8 ODF	240RA-12T9M	045549	93079
ME34S2110 1-3/8 ODF	240RA-16T11M	044788	93078
ME42S2130 1-5/8 ODF	240RA-20T13M	046637	N/A
ME42S2170 2-1/8 ODF	240RA-20T17M	046638	N/A

Sporlan	Emerson	PCN	Bercor
<b>Moisture Indicators</b>			
SA 12 S	HMI 1 TT 2	065405	94379
SA 13 FM	HMI 1 FM 3	065397	94343
SA 13 S	HMI 1 TT 3	065406	94380
SA 14 S	HMI 1 TT 4	065407	94381
SA 15 S	HMI 1 TT 5	065408	94382
SA 17 S	HMI 1 TT 7	065410	94383
SA 19 S	HMI 1 TT 9	065411	94373
<b>Suction Filters-Driers</b>			
C 165 S T HH	ASK 165 S VV HH	056508	N/A
C 166 S T HH	ASK 166 S VV HH	056509	N/A
C 167 S T HH	ASK 167 S VV HH	056510	N/A
C 306 S T HH	ASK 306 S VV HH	056511	N/A
C 307 S T HH	ASK 307 S VV HH	056512	N/A
	SFD-13S3-VV	060245	94364
	SFD-13S4-VV	060246	N/A
SFD and ASDs are used on the suction line to remove moisture and acid and provide filtration, they do not have the HH Core. These should be used when tight dimensions are needed and capacities are not met with the CSFD	SFD-13S5-VV	060249	94360
	SFD-13S6-VV	060250	94361
	SFD-13S7-VV	060262	94362
	SFD-27S7-VV	060251	N/A
	SFD-27S9-VV	060252	N/A
	SFD-54S11-VV	060253	N/A
	SFD-54S13-VV	060254	N/A
	ASD 35S5VV	049171	94331
	ASD 45S6VV	049172	94332
	ASD 45S7VV	049173	94333
ASD 50S9VV	049174	94334	
ASD 75S11VV	049175	94335	
ASD 75S13VV	049176	94336	
<b>Cores and Filters</b>			
RC 4864	D-48	059541	94326
RC 4864	H-48	059542	94324
RCW 48	UK-48	061617	94322
RC 4864 HH	W-48 HH	061235	94327
RC 10098	H-100	089338	94325
RC 10098 HH	W 100 HH	043582	94323
RPE 48 BD	F-48R	047664	94307
<b>Filter Cores and Cartridges</b>			
F25A	A2F	049479	94314
F35A	A3F	049480	94315
F45A	A4F	049481	94316
F55A	A5F	049482	94317
DF25A	A2FD	049483	94318
DF35A	A3FD	049484	94319
DF45A	A4FD	049485	94320
DF55A	A5FD	049486	94317
<b>Shells for 48 CU Driers</b>			
C 48 5 T	STAS-485-T	053001	94402
C 48 7 T	STAS-487-T	053003	94403
C 48 9 T	STAS-489-T	053005	94404
C 48 11 T	STAS-4811-T	053007	94415
C 96 7 T	STAS-967-T	053010	94405
C 96 9 T	STAS-969-T	053012	94406
C 96 13 T	STAS-9613-T	053017	94322

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Sporlan	Emerson	PCN	Bercor
<b>Solenoid Valves</b>			
E3S120 1/4 ODF	100RB-2S2	047503	93056
E3S130 3/8 ODF	100RB-2S3	047504	93058
E5S130 3/8 ODF	200RB-2T2	053105	N/A
E5S130 3/8 ODF	200RB-2T3	053106	93053
E6S130	200RB-3T3	049609	93054
B6F1 3/8 SAE	200RB-3F3	052726	N/A
E6S140 1/2 ODF	200RB-3T4	049692	N/A
E9S240 1/2 ODF	200RB-5T4	057206	N/A
E9S240 1/2 ODF	200RB-5S4T	047526	N/A
E10S250 5/8 ODF	200RB-6T5	056766	N/A
E14S250 5/8 ODF	200RB-7T5	064063	N/A

**Solenoid Coils**

AMG-24V		057341	93099
AMG-120V		057331	93097
AMG-208/240V		057342	93098
AMG-120/240V		057343	93096

**Solenoid Repair Kits**

Repair Kit 100RB	KS30112	049191	92959
Repair Kit 200RB	KS30115	049194	92960
Repair Kit 240RA8	KS30321	060626	92961
Repair Kit 240RA9	KS30322	060627	92975
Repair Kit 240RA12	KS30323	060628	92962
Gasket Kit Universal	KG10028	054356	93134

Sporlan	Emerson	PCN	Bercor
<b>Head Pressure Controls</b>			
	HP 8 T 7-110	046207	N/A
LAC-4-180	HPC 5 T 4-180	064183	92951
OROA-5-180/LAC-5-180	HP 8 T 5-185	032407	92940
OROA-5-180/LAC-5-180	HP 8 T 5-175	034246	N/A
OROA-5-180/LAC-5-180	HP 8 T 7-185	046206	92941
LAC-10-180	HP 14 T 9-175	029805	92946
LAC-10-180	HP 14 T 11-175	024601	92947

**Ice Machine Dump Valve**

207CBEB5 120/50-60(1-3) STD		062403	92934
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**Oil Control-Scroll**

OMB-JB1 ASC 2 24/50-60 STD		065365	92650
OMB-MO1 ASC 2 24/50-60 STD		065366	92651

**Accumulator**

3 X 12 5/8 ODF	A-AS3 12 5	060812	N/A
4 X 10 5/8 ODF	A-AS4 10 5	060966	N/A
4 X 10 3/4 ODF	A-AS4 10 6	060820	N/A
5 X 9 3/4 ODF	A-AS5 9 6	060824	N/A
5 X 9 7/8 ODF	A-AS5 9 7	060818	94441
5 X 13 7/8 ODF	A-AS5 13 7	060814	94442
5 X 13 1-1/8 ODF	A-AS5 13 9	060815	N/A
6 X 14 1-3/8 ODF	A-AS6 14 11	060827	94444
6 X 13 1-1/8 ODF	A-AS6 13 9	060968	94443
6 X 25 1-5/8 ODF	A-AS6 25 13	060970	94445



## Solenoid Valve Cross Reference

**EMERSON** Upgrade to Emerson  
Climate Technologies

Emerson (Alco)			Sporlan			Jackes-Evans		
Model	Connection	Tons	Model	Connection	Tons	Model	Connection	Tons
100 RB 2S2	1/4 ODF	.80	A3S1, E3S120	1/4 ODF	1.0	RB1E2	1/4 ODF	.80
100 RB 2S3	3/8 ODF	.80	A3S1, E3S120	3/8 ODF	1.0			
100 RB 2S4	1/2 ODF	.80						
100 RB 2F2	1/4 SAE	.80				RB1F2	1/4 SAE	.80
100 RB 2F3	3/8 SAE	.80	A3F1	1/4 SAE	1.0			
100 RB 2P2	1/4 NPTF	.80				RB1P2	1/4 NPTF	.80
			A3P1	3/8 NPTF	1.0	RB1P3	3/8 NPTF	.80
200 RB 2T2	1/4 ODF	2.0	E5S120	1/4 ODF	1.8			
200 RB 2T3	3/8 ODF	2.0	E5S130	3/8 ODF	1.8			
200 RB 2F2	1/4 SAE	2.0						
200 RB 3T2	1/4 ODF	3.0						
200 RB 3T3	3/8 ODF	3.0	B6S1, E6S130	3/8 ODF	3.1	RB3E3	3/8 ODF	3.0
200 RB 3T4	1/2 ODF	3.0	B6S1, E6S140	1/2 ODF	3.1	RB3E4	1/2 ODF	3.0
200 RB 3F2	1/4 SAE	3.0				RB3F2	1/4 SAE	3.0
200 RB 3F3	3/8 SAE	3.0	B6F1	3/8 SAE	3.1	RB3F3	3/8 SAE	3.0
200 RB 3F4	1/2 SAE	3.0						
						RB3P2	1/4 NPTF	3.0
			B6P1	3/8 NPTF	3.1	RB3P3	3/8 NPTF	3.0
200 RB 4P2	1/4 NPTF	3.6						
200 RB 4P3	3/8 NPTF	3.6						
200 RB 4S3	3/8 ODF-1/2 ODM	3.6						
200 RB 4S4	1/2 ODF-5/8 ODM	3.6						
200 RB 4F3	3/8 SAE	3.6						
200 RB 5P3	3/8 NPTF	5.3	B9P2	3/8 NPTF	5.1			
200 RB 5S4	1/2 ODF-5/8 ODM	5.3	B9S2, E9S240	1/2 ODF	5.1			
200 RB 5S5	5/8 ODF	5.3						
200 RB 5F4	1/2 SAE	5.3						
200 RB 5F5	5/8 SAE	5.3						
			E9S230	3/8 ODF	5.1			
			B9F2	3/8 SAE	5.1			
200 RB 6P3	3/8 NPTF	6.4						
200 RB 6S4	1/2 ODF-5/8 ODM	6.4	E10S240	1/2 ODF	7.0	RB6E4	1/2 ODF	6.0
200 RB 6S5	5/8 ODF	6.4	B10S2, E10S250	5/8 ODF	7.0	RB6E5	5/8 ODF	6.0
200 RB 6F4	1/2 SAE	6.4	B10F2	1/2 SAE	7.0	RB6F4	1/2 SAE	6.0
200 RB 6F5	5/8 SAE	6.4						
240 RA 8T5	5/8 ODF	10.0	B14S2, E14S250	5/8 ODF	9.9	RB9E5	5/8 ODF	9.0
8T7	7/8 ODF	10.0						
			B14P2	1/2 NPTF	9.9	RB9P4	1/2 NPTF	9.0
						RB9P3	3/8 NPTF	9.0
						RB9E4	1/2 ODF	9.0
						RB9F5	5/8 SAE	9.0
240 RA 9T5	5/8 ODF	15.0	B19S2, E19S250	5/8 ODF	15.2	RB15E15	5/8 ODF	15.0
240 RA 9T7	7/8 ODF	19.7	B19S2, E19S270	7/8 ODF	15.2			
9T9	1 1/8 ODF	19.7						
			B19P2	3/8 NPTF	15.2			
905-13*	7/8 ODF	19.4				RB15P4	1/2 NPTF	15.0
905H-13*	1 1/8 ODF	19.4						

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Emerson (Alco)			Sporlan			Jacks-Evans		
Model	Connection	Tons	Model	Connection	Tons	Model	Connection	Tons
240 RA 12T7	7/8 ODF	22.6	B25S2, E25S270	7/8 ODF	25.9	RB21E7	7/8 ODF	21.0
240 RA 12T9	1 1/8 ODF	22.6	B25S2, E25S290	1 1/8 ODF	25.9			
						RB21P6	3/4 NPTF	21.0
			B25P2	1NPTF	25.9			
240 RA 16T9	1 1/8 ODF	37.5	B33S2, E33S290	1 1/8 ODF	36.0			
240 RA 16T11	1 3/8 ODF6	37.5	B33S2, E33S2110	1 3/8 ODF	36.0	RB41E9	1 3/8 ODF	41.0
905-14*	1 1/8 ODF	36.3	B33S2	1 5/8 ODF	36.0			
905H-14*	1 3/8 ODF	36.3				RB41P8	1NPTF	41.0
240 RA 20T11	1 3/8 ODF	36.3						
240 RA 20T13	1 5/8 ODF	59.1	MA42S3	1 5/8 ODF	68.0			
240 RA 20T17	2 1/8 ODF	59.1	MA42S3	2 1/8 ODF	68.0			
905-15*	1 3/8 ODF	54.6	MA42P3	1 1/2 NPTF	68.0			
905H-15*	1 5/8 ODF	54.6						

NOTE: Nominal Capacity R-12 @ 2 PSI liquid pressure drop.

\* For special applications.



## Solenoid Valve Cross Reference

**EMERSON** Refrigeration Service  
Climate Technologies

Old Valve Number	Replacement Coil Number <sup>1</sup>	Old Valve Number	Replacement Coil Number <sup>1</sup>	Old Valve Number	Replacement Coil Number <sup>1</sup>	Current Valve Number	Current Coil Number <sup>1</sup>
S101-5	X22164	100R2S2	BGG	100RA2S2	AMG	100RB2S2	AMG
S101-9	X22164	100R2S2	BGG	100RA2S2	AMG	100RB2S2	AMG
S101-7	X22164	100R2S2	BGG	100RA2S2	AMG	100RB2S2	AMG
S101-4	X22164	100R2S3	BGG	100RA2S3	AMG	100RB2S3	AMG
S120-1	X22164	100R2S4	BGG	100RA2S4	AMG	100RB2S4	AMG
S101	X22164	100R2F2	BGG	100RA2F2	AMG	100RB2F2	AMG
S101-2	X22164	100R2F2	BGG	100RA2F2	AMG	100RB2F2	AMG
S101-8	X22164	100R2F3	BGG	100RA2F3	AMG	100RB2F3	AMG
S101-3	X22164	100R2P2	BGG	100RA2P2	AMG	100RB2P2	AMG
S101-6	X22164	100R2P3	BGG	None	AMG	None	AMG
S155	X22164	200R4S3	BGG	200RA4S3	AMG	200RB4T3	AMG
S155M	X22164	200R4S3M	BGG	200RA4S3M	AMG	200RB4T3M	AMG
S120	X22164	200R4S4	BGG	200RA4S4	AMG	200RB4T4	AMG
S120C	X22164	200R4S4	BGG	200RA4S4	AMG	200RB4T4	AMG
S120M	X22164	200R4S4M	BGG	200RA4S4M	AMG	200RB4T4M	AMG
S120T	X22164	200R4S4M	BGG	200RA4S4M	AMG	200RB4T4M	AMG
S115F	X22164	200R4F3	BGG	200RA4F3	AMG	200RB4F3	AMG
None	X22164	200R4P2	BGG	200RA4P2	AMG	200RB4P2	AMG
S115	X22164	200R4P3	BGG	200RA4P3	AMG	200RB4P3	AMG
S115-1	X22164	200R4P3	BGG	200RA4P3	AMG	200RB4P3	AMG
S115C	X22164	200R4P3	BGG	200RA4P3	AMG	200RB4P3	AMG
S115M	X22164	200R4P3M	BGG	200RA4P3M	AMG	200RB4P3M	AMG
S115M-1	X22164	200R4P3M	BGG	200RA4P3M	AMG	200RB4P3M	AMG
S155-1	X22164	228R3S3	ABG	228RB3S3	AMG	200RB3T3	AMG
S34-1 3/8" ODF	X22164	200R4S3	BGG	200RA4S3	AMG	200RB4T3	AMG
34 3/8" ODF	X22164	200R4S3M	BGG	200RA4S3M	AMG	200RB4T3M	AMG
S34-1 1/2" ODF	X22164	200R4S4	BGG	200RA4S4	AMG	200RB4T4	AMG
S34 1/2" ODF	X22164	200R4S4M	BGG	200RA4S4M	AMG	200RB4T4M	AMG
S34-1 3/8" FPT	X22164	200R4P3	BGG	200RA4P3	AMG	200RB4P3	AMG
S34 3/8" FPT	X22164	200R4P3M	BGG	200RA4P3M	AMG	200RB4P3M	AMG
None	X22164	200R5S4	BGG	200RA5S4	AMG	200RB5T3	AMG
S34-1 5/8" ODF	X22164	200R5S5	BGG	200RA5S5	AMG	200RB5T5	AMG
S34 5/8" SAE	X22164	200R5S5M	BGG	200RA5S5M	AMG	200RB5T5M	AMG
S34-1 1/2" SAE	X22164	200R5F4	BGG	200RA5F4	AMG	200RB5F4	AMG
S34 1/2" SAE	X22164	200R5F4M	BGG	200RA5F4M	AMG	200RB5F4M	AMG
None	X22164	200R5F5	BGG	200RA5F5	AMG	200RB5F5	AMG
None	X22164	200R5P3	BGG	200RA5P3	AMG	200RB5P3	AMG
S36-1 1/2" ODF	X22164	200R6S4	BGG	200RA6S4	AMG	200RB6T4	AMG
S37-1 5/8" ODF	X22164	200R6S5	BGG	200RA6S5	AMG	200RB6T5	AMG
S37 5/8" ODF	X22164	200R6S5M	BGG	200RA6S5M	AMG	200RB6T5M	AMG
S37F-1 1/2" SAE	X22164	200R6F4	BGG	200RA6F4	AMG	200RB6F4	AMG
S37F 1/2" SAE	X22164	200R6F4M	BGG	200RA6F4M	AMG	200RB6F4M	AMG
S37F-1 5/8" SAE	X22164	200R6F5	BGG	200RA6F5	AMG	200RB6F5	AMG
S37F 5/8" SAE	X22164	200R6F5M	BGG	200RA6F5M	AMG	200RB6F5M	AMG
S36-1 3/8" FPT	X22164	200R6P3	BGG	200RA6P3	AMG	200RB6P3	AMG
S221	X22164	200R6S5M	BGG	200RA6S5M	AMG	200RB6T5M	AMG
S225	X22164	200R6S5M	BGG	200RA6S5M	AMG	200RB6T5M	AMG
S225H	X22164	200R6S5M	BGG	200RA6S5M	AMG	200RB6T5M	AMG
S225-1	X22164	200R6S5	BGG	200RA6S5	AMG	200RB6T5	AMG
S804-4	X22164	200R6S5	BGG	200RA6S4	AMG	200RB6T4	AMG
S804-3	X22164	200R6S4	BGG	200RA6S4	AMG	200RB6T4	AMG
S804-5	X22164	200R6P3	BGG	200RA6P3	AMG	200RB6P3	AMG
S896	X22164	230R9S74	BGG	230R9S74	AMG	240RA9T7	AMG
S310-1	X22164	230R9S74	BGG	230R9S74	AMG	240RA9T7	AMG
None	None	230R8S54	BGG	230RA8S54	AMG	240RA8T5	AMG
None	None	230R9S54	BGG	230RA9S54	AMG	240RA8T5	AMG
M635-1	X22606	230R9S74	BGG	230RA9S74	AMG	240RA9T7	AMG
M635H-1	X22606	230R9S74	BGG	230RA9S74	AMG	240RA9T7	AMG
M635	X22606	230R9S7M4	BGG	230RA9S7M4	AMG	240RA9T7M	AMG

Continued on the Following Page

Continued from the Previous Page

Old Valve Number	Replacement Coil Number <sup>1</sup>	Old Valve Number	Replacement Coil Number <sup>1</sup>	Old Valve Number	Replacement Coil Number <sup>1</sup>	Current Valve Number	Current Coil Number <sup>1</sup>
M635H	X22606	230R9S7M4	BGG	230RA9S7M4	AMG	240RA9T7M	AMG
M344-1	X22606	230R12S74	BGG	230RA12S74	AMG	240RA12T7	AMG
M344H-1	X22606	230R12S74	BGG	230RA12S74	AMG	240RA12T7	AMG
M355-1	X22606	230R12S74	BGG	230RA12S74	AMG	240RA12T7	AMG
M355H-1	X22606	230R12S74	BGG	230RA12S74	AMG	240RA12T7	AMG
M355H	X22606	230R12S7M4	BGG	230RA12S7M4	AMG	240RA12T7M	AMG
M355	X22606	230R12S7M4	BGG	230RA12S7M4	AMG	240RA12T7M	AMG
M344	X22606	230R12S7M4	BGG	230RA12S7M4	AMG	240RA12T7M	AMG
M344H	X22606	230R12S7M4	BGG	230RA12S7M4	AMG	240RA12T7M	AMG
R345-1	X22200	230R16S94	BGG	230RA16S94	AMG	240RA16T9	AMG
R345H-1	X22200	230R16S94	BGG	230RA16S94	AMG	240RA16T9	AMG
R355-1	X22200	230R16S94	BGG	230RA16S94	AMG	240RA16T9	AMG
R355H-1	X22200	230R16S94	BGG	230RA16S94	AMG	240RA16T9	AMG
R345	X22200	230R16S9M4	BGG	230RA16S9M4	AMG	240RA16T9M	AMG
R345H	X22200	230R16S9M4	BGG	230RA16S9M4	AMG	240RA16T9M	AMG
R355	X22200	230R16S9M4	BGG	230RA16S9M4	AMG	240RA16T9M	AMG
R345H	X22200	230R16S9M4	BGG	230RA16S9M4	AMG	240RA16T9M	AMG
R11 1-1/8" ODF2	X22200	230R16S9M4	BGG	230RA16S9M4	AMG	240RA16T9M	AMG
R1H 1-1/8" ODF2	X22200	230R16S9M4	BGG	230RA16S9M4	AMG	240RA16T9M	AMG
R12	X22200	905-144	XA1550/BGG	905-144	AMG	905-14	AMG
R612	X22200	230R20S11M4	BGG	230RA20S114	AMG	240RA20T11M	AMG
R6H2	X22200	230R20S11M4	BGG	230RA20S11M4	AMG	240RA20T11M	AMG
R61-12	X22200	230R20S11T4	BGG	230RA20S11T4	AMG	240RA20T11M	AMG
R6H-1	X22200	230R20S11T4	BGG	230RA20S11T4	AMG	240RA20T11T	AMG
R62	X22200	905-154	XA1550/BGG	905-154	AMG	905-15	AMG
R62-1	X22200	905-154	XA1550/BGG	905-154	AMG	905-15	AMG
R21	X22200	905H-163	XA1550/BGG	905H-163	AMG	905H-16	AMG
R21-1	X22200	905H-163	XA1550/BGG	905H-163	AMG	905H-16	AMG
R2H	X22200	905H-164	XA1550/BGG	905H-164	AMG	905H-16	AMG
R2H-1	X22200	905-164	XA1550/BGG	905-164	AMG	905-16	AMG
		230R20S13T4	BGG	230RA20S13T4	AMG	230RA20S13T	AMG
		230R20S17M4	BGG	230RA20S17M4	AMG	230RA20S17M	AMG
DS2360-1	XA1550	100R2P3	BGG	200RA4P3	AMG	200RB4P5	AMG
DS2228	XA1714	228R3S3	ABG	228RB3S3	AMG	200RB3T3	AMG
S608-1	XA1550	702RA01	AMG	702RA001	AMG	702RA001	AMG
9010-1R	AAG	100R2S2	BGG	100RA2S2	AMG	100RB2S2	AMG
9010-2R	AAG	100R2S3	BGG	100RA2S3	AMG	100RB2S3	AMG

<sup>1</sup> Specify the voltage/frequency rating.

<sup>2</sup> Replacement valves do not have flange connections. For flanged connections, see the 905 series valves.

<sup>3</sup> For low pressure recirculated liquid, use the 905-16. 4 230R and 230RA valves cannot be used for ammonia use.



## 100RB, 200RB, and 200RD Refrigeration Solenoid Valves



100RB

- Two-way, normally closed valves.
- Valve operates in any position, can be conveniently located in horizontal or vertical lines.
- Extended ends (standard) for easy installation.
- One coil fits all valve sizes.
- Space saving integral junction box and coil housing saves cost of handy box connections.



200RB

- Snap-on coil retainer, easy to install and remove. Coil assembly is replaceable without shut-down of line pressure.
- Long-life molded coils with class F insulations provide water, shock, and vibration protection in coil winding.
- UL listed file number MP604 CSA Certified file number LR44912.



200RD

Valve Number	Port Size	Refrigerant Liquid Service Nominal Capacities (Tons)				M.O.P.D. (PSI)	Max. Fluid Temp.	Max. Working Pressure (PSI)
		R-134a	R-22	R-404A/R-507	R-410A			
100RB Series	7/64	.96	1.27	.85	—	300	285°	500
200RB-2	2/16	2.4	3.1	2.1	—	300	285°	500
200RB-3	3/16	3.6	4.8	3.2	—	300	285°	500
200RB-4	1/4	4.3	5.6	3.7	—	300	285°	500
200RB-5	5/16	6.4	8.2	5.4	—	300	285°	500
200RB-6	3/8	7.7	10.0	6.5	—	300	285°	500
200RD-2	1/8	2.4	3.1	2.1	3.2	2	250°	680
200RD-3	3/16	3.6	4.8	3.2	4.5	2	250°	680
200RD-4	1/4	4.3	5.6	3.7	7.3	2	250°	680
200RD-5	5/16	6.4	8.2	5.4	7.7	2	250°	680
200RD-6	3/8	7.7	10.0	6.5	8.8	2	250°	680

### 100RB Direct-Acting Valves

Connection	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
1/4 ODF	1	EA	93056	100RB-2S2 1/4 IN SOLENOID VALVE	—	—
3/8 SAE	6	EA	93057	100RB-2F3 SOL VLV L/COIL	—	—
3/8 ODF (1/2 ODM)	6	EA	93058	100RB-2S3 SOL VLV L/COIL	—	—
1/4 SAE	6	EA	93060	100RB-2F2 SOL VLV L/COIL	—	—

### 200RB Pilot Operated Valves

3/8 ODF	6	EA	93053	200RB-2T3 SOL VLV L/COIL	—	—
5/8 ODF	6	EA	93069	200RB-5T5-T SOL VLV L/COIL	—	—
1/2 SAE	6	EA	93087	200RB-6F4-T SOL VLV L/COIL	—	—

NOTE: Suffix letter "T" indicates Mounting Stem.

### 200RB Manual Stem Valve

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
1	EA	93064	200RB-3T3M 3/8 IN MANUAL LIFT STEM SOLENOID VALV	—	—
1	EA	93071	200RB-6T5-M 5/8 IN MANUAL LIFT STEM SOLENOID VALV	—	—

### 200RD Mounting Stud Valve

Connection	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
3/8 ODF	6	EA	93040	200RD-2T3T R-410A UNIVERSAL SOL VLV L/COIL	—	—
3/8 ODF	6	EA	93041	200RD-3T3T R-410A UNIVERSAL SOL VLV L/COIL	—	—
3/8 ODF	6	EA	93042	200RD-4T3T R-410A UNIVERSAL SOL VLV L/COIL	—	—
1/2 ODF	6	EA	93043	200RD-4T4T R-410A UNIVERSAL SOL VLV L/COIL	—	—
5/8 ODF	6	EA	93044	200RD-5T5T R-410A UNIVERSAL SOL VLV L/COIL	—	—
5/8 ODF	6	EA	93045	200RD-6T5T R-410A UNIVERSAL SOL VLV L/COIL	—	—

### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	92959	KS30112 REPAIR KIT FOR 100RB	—
1	EA	92960	KS30386 REPAIR KIT FOR 200RD	—
1	EA	92976	KS30387 BIFLOW KIT FOR 200RD	—
1	EA	93093	KS30117 MANUAL STEM KIT FOR 200RB-4	—



## 240RA Series Solenoid Valves



This series of Alco valves are 2-way, normally closed diaphragm valves especially suited for liquid and suction, service. Their basic function is the same as manually operated shut-off valves, but being solenoid actuated, they can be positioned in remote locations, and conveniently controlled by suitable electrical devices.

### Features

- Extended ends for easy installation (standard).
- The 240 Series extended tubes are 100% copper.
- Can be brazed into the line without disassembly and the resultant extra cost in time.

### Specifications

- Less than 1 psi differential required for operation.
- U.L. Listed: File No. MP604 CSA LR44912.
- Control Voltages: AC24, 120, 208-240, 480 (50/60 hertz.), DC 6, 12, 24.
- 240 valves operate in any position.
- Only 2 moving parts: Plunger and Diaphragm.
- Heavy wall, drawn, stainless steel enclosing tube.
- Reinforced teflon diaphragm with woven fiberglass.
- Available with standard mounting bracket adapter or with optional manual stem.
- Can be field-converted to a manual system.

Valve Number	Port Size	Refrigerant Liquid Service Nominal Capacities(Tons)				M.O.P.D. (PSI)	Max. Fluid Temp.	Max. Working Pressure (PSI)
		R-134a	R-22	R-404A/R-507	R-410A			
240RA 8T5	1/2	12.1	15.6	10.3	300	500	285°	500
240RA 9T5	9/16	18.0	23.3	15.3	300	500	285°	500
240RA 9T7	9/16	23.6	30.5	20.1	300	500	285°	500
240RA 12T7	3/4	27.1	34.9	23.0	300	500	285°	500
240RA 12T9	3/4	27.1	34.9	23.0	300	500	285°	500
240RA 16T9	1	45.0	58.0	38.3	300	500	285°	500
240RA 16T11	1	45.0	58.0	38.3	300	500	250°	680

\* To order valve with manual stem add "M" to type number. (ex. 240RA 8T5-M). To order valve less manual stem but with provision for mounting bracket, add "T" to type number. (ex. 240RA8T-T).

### Solenoid Valves

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	93073	240RA-8T5-M SOL VLV L/COIL	—	—
6	EA	93074	240RA-9T5-M SOL VLV L/COIL	—	—
6	EA	93075	240RA-9T7-M SOL VLV L/COIL	—	—
6	EA	93076	240RA-12T7-M SOL VLV L/COIL	—	—
6	EA	93079	240RA-12T9-M SOL VLV L/COIL	—	—
6	EA	93077	240RA-16T9-M SOL VLV L/COIL	—	—
6	EA	93078	240RA-16T11-M SOL VLV L/COIL	—	—

### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	92961	KS30321 REPAIR KIT FOR 240RAB	—
1	EA	92962	KS 30323 REPAIR KIT FOR 240RA12	—
10	EA	92975	KS 30322 REPAIR KIT FOR 240RA9	—
1	EA	93134	KG 10028 GASKET KIT FOR 240RA VALVES	—





## Solenoid Valve Coils

- Compact designs
- Coil windings are insulated to provide shock and vibration protection
- Interchangeable housings.
- **AMG:** 12 Watt, Class F, Junction Box
- **ASC2:** Designed to provide weather protection



AMG

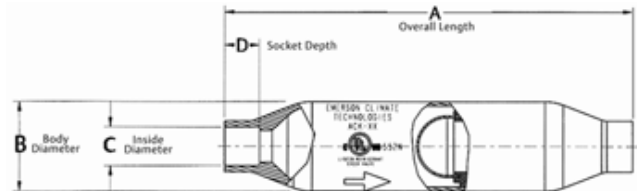


ASC2

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	93096	AMG 120-240/50-60 SOL COIL	—
12	EA	93097	AMG 120/50-60 SOL COIL	—
12	EA	93098	AMG 208-240/50-60 SOL COIL	—
12	EA	93099	AMG 24/50-60 SOL COIL	—
12	EA	93103	AMG 12V/DC SOL COIL	—
1	EA	93107	ASC 2 X-28894-24 SOLENOID COIL ASSY 24/DC PCN# 064375	—



## ACK Check Valves



### Features

- Copper connection sizes 1/4" through 2-5/8".
- Hermetic spun copper design.
- Near zero internal leak rate.
- Magnetic checking action.
- Built-in 30 mesh stainless steel strainer.
- Can be installed in any position.
- UL/CUL Approved (File # SA 5312).

### Application

- Normally closed magnetic check valve.
- Prevents reversed refrigerant flow in liquid lines and compressor discharge lines.

Description	Connection Size	A Overall Length	B Body Diameter	C Inside Diameter	D Socket Depth	Opening Pressure oz./sq. in.	MWP (psig)	Tons R-22 Suction 40° F @ 1 psi	Tons R-22 Liquid 40° F @ 1 psi
ACK-6	3/8 ODF	4	7/8	.379 ± .002	0.40	1.3	800	0.6	3.1
ACK-8	1/2 ODF	5	1-1/8	.504 ± .002	0.31	3.5	640	1.2	9.4
ACK-10	5/8 ODF	5	1-1/8	.629 ± .002	0.50	3.5	640	1.4	13
ACK-12	3/4 ODF	7	1-5/8	.754 ± .002	0.63	3.8	560	3.3	27
ACK-14	7/8 ODF	7	1-5/8	.879 ± .003	0.42	3.8	560	3.7	29
ACK-18	1-1/8 ODF	8-3/8	2-1/8	1.130 ± .003	0.94	6.8	400	6.0	51

Emerson *	A-1 Components *	Superior *	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
ACK-6	MS-6	900M-6S	1	EA	94391	ACK-6 3/8" CHECK VALVE	—
ACK-8	MS-8	900M-8S	1	EA	94392	ACK-8 1/2" CHECK VALVE	—
ACK-10	MS-10	900M-10S	1	EA	94393	ACK-10 5/8" CHECK VALVE	—
ACK-12	MS-12	900M-12S	1	EA	94394	ACK-12 3/4" CHECK VALVE	—
ACK-14	MS-14	900M-14S	1	EA	94395	ACK-14 7/8" CHECK VALVE	—
ACK-18	MS-18	N/A	1	EA	94396	ACK-18 1-1/8" CHECK VALVE	—

\* Compatible with models specified



## Ice Machine Dump Valves



- Designed specifically for ice machine applications
- Tested for over 500,000 cycles
- Utilizes the static pressure of water to periodically drain the ice maker's sump
- Totally serviceable
- Mounting bracket standard
- Direct acting
- Three coil orientations
- Four mounting bracket configurations
- Rated at 5.3 GPM at 3 psid
- UL and CSA approved

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	92934	207CB EBS 120 V ICE MACHINE DUMP VALVE	—
1	EA	92935	207CB EBS 240 V ICE MACHINE DUMP VALVE	—



## OMB Crankcase Oil Management Controls



The OMB is a compressor crankcase oil level protective control ideal for use with Copeland Scroll® models ZF, ZB, ZR and ZS. It is also recommended for Copeland® brand products, Carlyle, Bitzer, and other semi-hermetic compressors.

**Features:**

- Precision oil level measurement for maximum protection
- Easy monitoring with alarm and status lights
- Foam resistant design prevents nuisance trips unlike optical sensor designs
- Contaminant proof operation ensures accurate control
- 5-time lockout feature protects compressor from repeated low oil level condition

**Specifications:**

- Maximum working pressure: 640 psi
- Solenoid MOPD: 350 psi
- Supply voltage: 24 V AC, 50/60 Hz
- Solenoid coil: ASC 2L 24 V AC, 50/60 Hz
- Time delay for low level signaling: 5-10 seconds
- Time delay for after setpoint recovery: 5-10 seconds
- Alarm delay time: 120 seconds
- Alarm switch: SPDT
- Alarm contact rating: 10A at 125; 5A at 220 V AC 50/60 Hz
- Refrigerant compatability: HFC, HCFC, CFC
- Oil temperature: 180° F Max.
- Operating ambient temperature: 120° F Max.
- Oil supply fitting: 1/4" male SAE
- Transformer VA requirements\*: 25"

\* Field supplied transformer should always be of the same primary voltage as the electrical supply system.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	92650	OMB-JB1 CRANKCASE OIL MANAGEMENT CONTROL WITH JUNCTION BOX	—
1	EA	92651	OMB-M01 CRANKCASE OIL MANAGEMENT CONTROL W/ RELIEF CONNECTION	—

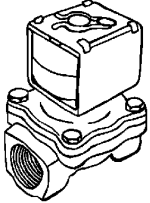


## Solenoid Valves for Air, Water, and Steam

**EMERSON**  
Climate Technologies

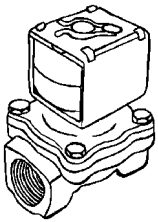
All Steam Service Requires Use of AHG Style Coil

### 241 Series for Air and Water Applications



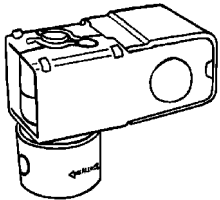
Model No.	Port Size (in.)	Description	NPTF Connection Size (in.)
0355073	5/8	241WA 10P03	3/8
035023	5/8	241WA 10P04	1/2
035022	3/4	241WA 12P06	3/4
038857	1	241WA 16P08	1

### 211 Series for Air, Water and Steam Applications

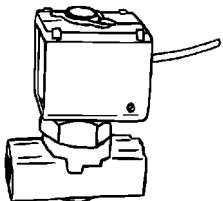


Model No.	Port Size (in.)	Description	NPTF Connection Size (in.)
<b>For Air and Water Applications</b>			
049333	5/8	211WA 10P03	3/8
049336	5/8	211WA 10P04	1/2
049538	3/4	211WA 12P06	3/4
<b>For Steam Applications</b>			
049334	5/8	221SA 10P03	3/8
049335	5/8	221SA 10P04	1/2
049537	3/4	211SA 12P06	3/4

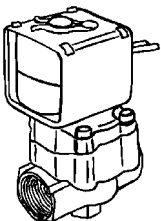
### 121, 201, and 231 Series for Air, Water, and Steam Applications



121



201



231

Model No.	Port Size (in.)	Description	NPTF Connection Size (in.)
<b>For Air and Water Applications</b>			
030038	5/32	121WB 5CP02	1/4
040412	3/16	121WB 03P02	1/4
040337	1/4	121WB 04P02	1/4
040758	5/16	201WB 05P03	3/8
065610	3/8	201WB 06P03	3/8
030051	1/2	231WB 08P04	1/2
039987	3/4	231WB 12P06	3/4
034211	1	231WB 16P08	1
040283	1-1/4	231WB 20P10	1-1/4
040021	1-1/2	231WB 24P12	1-1/2
<b>For Steam Applications</b>			
040300	5/32	121SB 5CP02	1/4
065389	1/4	201SB 04P02	1/4
041509	5/16	201SB 05P03	3/8
092377	3/8	201SB 06P03	3/8
034171	1/2	231SB 08P04	1/2
040069	3/4	231SB 12P06	3/4
030048	1	231SB 16P08	1
040365	1-1/4	231SB 20P10	1-1/4
040366	1-1/2	231SB 24P12	1-1/2



## 211C Industrial Solenoids



These industrial solenoid valves are approved for use with fluids utilized in secondary loops such as Propylene Glycol and Tyfoxit. The recommended seat material is Buna-N. In addition to air, water, and steam, the following is a listing of secondary loop fluids that are compatible with these valves: Ethylene and Propylene Glycol, Tyfoxit, Siltherm XLT, HFE, Dowfrost, and Pekasol

### Applications

- Air, water and steam
- 2-way normally closed

Model No.	Product Code	Pipe Size	Orifice Size	MOPD Hot Water/ Steam	Cv	Max. AC Fluid Temp.	Elastomer
<b>Brass General Purpose</b>							
211CA1/2B5/8B	030626	1/2	5/8	100/100	3.6	180° F	Buna-N
211CA3/4B3/4B	030627	3/4	3/4	100/100	5.5	180° F	Buna-N
<b>Brass: Hot Water (210° F) or Steam (to 250° F)</b>							
211CA3/4B3/4P	032305	3/4	3/4	100/15	5.5	250° F	Ethylene Propylene Glycol

<sup>1</sup>With an ambient temperature of 77° F

### Nomenclature

2	11	C	A	1/2	B	1/2	B
Valve Type 2 = 2 Way 3 = 3 Way	Product Group Two digits to define group	Gorm of Flow C = Normally Closed O = Normally Open U = Universal	Design Series Letter will be advanced to identify product changes	Pipe N.P.T. 1/8 inch thru 2 inch GS indicates non-standard	Body Material B = Brass S = Stainless Steel T – Stainless Steel with Silver Shading Band	Body Orifice 3/65 inch thru 2 inch	Elastomer Code B = Buna-N

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	93091	211CA 3/4BX3/4P VLV LESS COIL	—
1	EA	93092	211CA-1/2 B 5/8B SOL VLV L/COIL	—
1	EA	93095	211CA 3/4 B 3/4B SOL VLV L/COIL	—

Other air, water, and steam solenoid valves are available. See your local Berkeimer representative for details and ordering information.



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## Liquid Line Pre-Filter

for POE Systems



- Liquid Line Filter optimal for POE systems
- Filter media that maximizes removal of particles
- Recovery, recycle, and reclaim filter
- Available with access fittings
- Available with extended ends
- Corrosion resistant paint finish
- Filtration: 40 microns
- Maximum working pressure: 600 psig

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10-24	PC-3 25
1	EA	94284	ALF-032MF 1/4 IN MXF FLARE LIQUID LINE PRE-FILTER	—	—	—



**EMERSON**  
Climate Technologies

## CU Liquid Line Filter Driers

Spun Copper



- Copper tubing of the highest quality and strength.
- 100% XH-9 molecular sieve for maximum water capacity.
- For use with R-134a, blends, and systems with conventional refrigerants.
- Recommended for use in original equipment or replacement residential, air-conditioning, or refrigeration equipment.
- 100 micron filtration.

### Specifications

Old Alco Model No.	New Model No.	Product Description	Parker Equivalent	Length in Inches	Outer Diameter
A-TL-10-VC	CU-619	Access Valve	619	8-7/8"	3/4"
A-TL-20-VC	CU-620	Access Valve	620	9-1/2"	1"

### Water Capacity in Drops

New Model No.	R-134a		R-22		R-404A/R-507	
	75°	125°	75°	125°	75°	125°
CU-619	25	23	25	22	23	23
CU-620	50	46	50	44	46	46

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10-24	PC-3 25
1	PKG	94287	CU200 STEPPED FITTINGS COPPER SPUN DRIER	—	—	—
1	PKG	94290	CU619-3 1/4 X CAP COPPER SPUN 3 PACK	—	—	—



## EK Liquid Line Filter Driers



Extra-Klean filter-driers are specifically designed to protect the refrigerant system from liquid and solid contaminants. They incorporate a desiccant specially formulated and blended for maximum moisture and acid removal.

- Filtration first for more effective use of surface area of desiccant.
- Desiccant blend: 75% molecular sieve and 25% activated alumina.

- Soluble contaminant capacities for water and acid.
- Cushioned flow for non-turbulent performance.
- Process controlled fiberglass filter network for premium filtration.
- UL Listed: File No. SA3124. CSA Certified: File No. LR32462 and LR100624.
- Safe Working Pressure: 600 psig.
- New fittings for easy installation: Copper O (sizes 5 through 75 cubic inch); burnished SAE.

### Nominal System Tonnage

Model No.	Refrigeration Low Temp. & Commercial Installations			Air Conditioning					
	R-134a	R-22	R-404A/R-507	Field Replacement and Field Installations			OEM Self-Contained Equipment		
				R-134a	R-22	R-404A/R-507/R-410A	R-134a	R-22	R-404A/R-507
EK-032									
EK-032S	1/2	1/2	1/2	1	1-1/2	1-1/2	3/4	1	3/4
EK-033S									
EK-052	3/4	3/4	1/2	1	1-1/2	1-1/2	1	1	1
EK-052S									
EK-053	1-1/2	2	1-1/2	3	4	4	2	3	2
EK-053S									
EK-082	1	1	3/4	1-1/2	2	2	1	1-1/2	1
EK-082S									
EK-083	2	3	2	4	5	5	3	4	3
EK-083S									
EK-084	2	4	2	5	7-1/2	7-1/2	4	5	4
EK-084S									
EK-162	1-1/2	2	1	1-1/2	2	2	2	2-1/2	2
EK-162S									
EK-163	3	5	3	4	5	5	4	5	3
EK-163S									
EK-164	3	5	3	5	10	10	5	7-1/2	5
EK-164S									
EK-165	3	7-1/2	3	7-1/2	12	12	7-1/2	10	7-1/2
EK-165S									
EK-167S	3	4	3	5	7-1/2	5	10	12-1/2	10
EK-303	4	5	3	4	6	6	4	5	4
EK-303S									
EK-304	4	7-1/2	4	7-1/2	10	10	7-1/2	7-1/2	5
EK-304S									
EK-305	7-1/2	10	5	10	15	15	10	15	7-1/2
EK-305S									
EK-306S	7-1/2	10	5	18	24	24	15	20	12-1/2
EK-307S									
EK-309S	7-1/2	15	5	20	26	26	15	20	15
EK-414	4	5	5	7-1/2	12	12	7-1/2	7-1/2	5
EK-414S									
EK-415	7-1/2	7-1/2	7-1/2	12	18	18	10	15	7-1/2
EK-415S									
EK-417S	10	10	7-1/2	18	25	7-1/2	15	20	12-1/2
EK-419S	10	12	10	20	27	27	20	25	15
EK-757S	20	25	15	22	30	30	20	25	15
EK-759S	22	30	20	25	34	34	25	30	20

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## Flare Connections

Connection	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10-24	PC-3 25
1/4	12	EA	94216	EK-032SV-CAP 1/4 SWEAT X CAPILLARY LIQUID LINE FILTER DRIER	—	—	—
1/4	25	EA	94217	EK-032MF 1/4 FLARE LIQUID LINE FILTER DRIER	—	—	—
1/4	25	EA	94219	EK-032FM 1/4 FLARE LIQUID LINE FILTER DRIER	—	—	—
1/4	25	EA	94220	EK-032 1/4 FLARE LIQUID LINE FILTER DRIER	—	—	—
1/4	25	EA	94222	EK-052 1/4 FLARE LIQUID LINE FILTER DRIER	—	—	—
3/8	25	EA	94223	EK-053 3/8 FLARE LIQUID LINE FILTER DRIER	—	—	—
1/4	1	EA	94224	EK-082 1/4 FLARE LIQUID LINE FILTER DRIER	—	—	—
3/8	25	EA	94225	EK-083 3/8 FLARE LIQUID LINE FILTER DRIER	—	—	—
1/2	25	EA	94227	EK-084 1/2 FLARE LIQUID FILTER DRIER	—	—	—
1/4	25	EA	94229	EK-162 1/4 FLARE LIQUID LINE FILTER DRIER	—	—	—
3/8	25	EA	94230	EK-163 3/8 FLARE LIQUID LINE FILTER DRIER	—	—	—
1/2	25	EA	94232	EK-164 1/2 FLARE LIQUID LINE FILTER DRIER	—	—	—
5/8	25	EA	94235	EK-165 5/8 FLARE LIQUID LINE FILTER DRIER	—	—	—
3/8	10	EA	94240	EK-303 3/8 FLARE LIQUID LINE FILTER DRIER	—	—	—
1/2	10	EA	94241	EK-304 1/2 FLARE LIQUID LINE FILTER DRIER	—	—	—
5/8	10	EA	94242	EK-305 5/8 FLARE LIQUID LINE FILTER DRIER	—	—	—
1/2	10	EA	94264	EK-414 1/2 FLARE LIQUID FILTER DRIER	—	—	—
5/8	10	EA	94274	EK-415 5/8 FLARE LIQUID FILTER DRIER	—	—	—

## ODF-ODM Sweat Connections

3/8	25	EA	94218	EK-033S 3/8 SWEAT LIQUID FILTER DRIER	—	—	—
1/4	25	EA	94221	EK-032S 1/4 SWEAT LIQUID LINE FILTER DRIER	—	—	—
3/8	25	EA	94226	EK-083S 3/8 SWEAT LIQUID LINE FILTER DRIER	—	—	—
1/2	25	EA	94228	EK-084S 1/2 SWEAT LIQUID FILTER DRIER	—	—	—
3/8	25	EA	94231	EK-163S 3/8 SWEAT LIQUID LINE FILTER DRIER	—	—	—
1/2	25	EA	94233	EK-164S 1/2 SWEAT LIQUID LINE FILTER DRIER	—	—	—
3/8	25	EA	94234	EK-053S 3/8 SWEAT LIQUID LINE FILTER DRIER	—	—	—
5/8	25	EA	94236	EK-165S 5/8 SWEAT LIQUID LINE FILTER DRIER	—	—	—
1/2	10	EA	94237	EK-304S 1/2 SWEAT LIQUID LINE FILTER DRIER	—	—	—
7/8	25	EA	94238	EK-167S 7/8 SWEAT LIQUID FILTER DRIER	—	—	—
3/8	10	EA	94239	EK-303S 3/8 SWEAT LIQUID LINE FILTER DRIER	—	—	—
5/8	10	EA	94244	EK-305S 5/8 SWEAT LIQUID LINE FILTER DRIER	—	—	—
3/4	10	EA	94245	EK-306S 3/4 SWEAT LIQUID FILTER DRIER	—	—	—
7/8	10	EA	94251	EK-307S 7/8 SWEAT LIQUID FILTER DRIER	—	—	—
1-1/8	10	EA	94259	EK-309S 1-1/8 LIQUID LINE FILTER DRIER	—	—	—
1/2	10	EA	94271	EK-414S 1/2 SWEAT LIQUID FILTER DRIER	—	—	—
5/8	10	EA	94275	EK-415S 5/8 SWEAT LIQUID FILTER DRIER	—	—	—
7/8	10	EA	94276	EK-417S 7/8 SWEAT LIQUID FILTER DRIER	—	—	—
1-1/8	10	EA	94277	EK-419S 9/8 SWEAT LIQUID FILTER DRIER	—	—	—
7/8	6	EA	94278	EK-757S 7/8 SWEAT LIQUID FILTER DRIER	—	—	—
1-1/8	6	EA	94279	EK-759S 9/8 SWEAT LIQUID FILTER DRIER	—	—	—
1/4	25	EA	94292	EK-052S 1/4 SWEAT LIQUID LINE FILTER DRIER	—	—	—
1/4	25	EA	94293	EK-082S 1/4 SWEAT LIQUID LINE FILTER DRIER	—	—	—
1/4	25	EA	94294	EK-162S 1/4 SWEAT LIQUID LINE FILTER DRIER	—	—	—

## Oil Filter Drier

	1	EA	94200	ADK - 165 FILTER DRIER PCN# 059842	—	—	—
3/8	1	EA	94389	AOFD553 3/8 OIL FILTER DRIER	—	—	—
3/8	1	EA	94390	AOF-303 OIL FILTER	—	—	—



## BFK Bi-Flow Heat Pump Filter Drier



Provides heat pump system protection in heating and cooling cycles. It reduces complex piping and resulting costs.

- Internal check valves allow flow and filtration in either direction. External check valves eliminated.
- Lightweight and compact, it may be installed in any position.
- Provides effective removal of moisture, acid, and solid contaminants.
- Desiccant blend: 75% molecular sieve and 25% activated alumina.
- Reduces compressor maintenance.
- Dimensionally equivalent to Alco's conventional single-flow filter dryers.
- UL Listed: File No. SA 3124.
- CSA Listed: LR 100624 and LR32462.

Model Number	Flow Capacity <sup>1</sup> Tons @ 1 PSIG D P Refrigerant			Water Capacity <sup>2</sup> Drops/R-22 <sup>3</sup>		Water Capacity Drops/R-410A		Liquid Refrigerant Capacity By Weight (Ounces) R-22	
	R-134a	R-22	R-404A/R-507	75° F	125° F	75° F	125° F	75° F	125° F
BFK-083S	4.7	5.1	3.3	159	144	85	75	7.7	6.9
BFK-163S	4.8	5.2	3.4						
BFK-164S	7.5	8.1	5.3	323	294	178	160	14.2	12.7
BFK-165S	8.0	8.7	5.7						

<sup>1</sup> All ratings in accordance with ARI standard 710-86 2

<sup>2</sup> Water Capacities are based on: Equilibrium Point Dryness of 60 Parts Per Million for R-22.

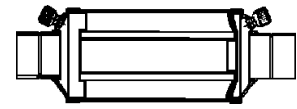
<sup>3</sup> 20 drops of water = 1 gram = 1 cc.

Connection	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10-24	PC-3 25
3/8 ODF	25	EA	94207	BFK-083S 3/8 ODF BI-FLOW HEAT PUMP FILTER DRIER	—	—	—
3/8 ODF	25	EA	94210	BFK-163S 3/8 ODF BI-FLOW HEAT PUMP FILTER DRIER	—	—	—
1/2 ODF	25	EA	94211	BFK-164S 1/2 ODF BI-FLOW HEAT PUMP FILTER DRIER	—	—	—
5/8 ODF	25	EA	94209	BFK-165S FILTER DRIER	—	—	—





## ASF Plus Suction Line Filter



- Protects compressor from dirt and solid contaminants.
- Rugged steel shells for shock resistance.
- Low pressure drop—full flow fittings.
- Dual access valves.
- Full copper fittings—easy to sweat in.
- Corrosion resistant epoxy powder paint finish.
- Filtration Recommendation: 40 microns.
- Maximum working pressure: 500 psig.
- U.L. Listed: File No. SA3124.
- CSA Listed: File No. LR32462.

Model Number	Flow Capacity <sup>1</sup> in Tons @ 1 PSI D P Refrigerant													
	R-134a					R-22					R-404A/R-507			
	Evaporator Temperature ° F													
	40	20	0	-20	40	20	0	-20	-40	40	20	0	-20	-40
	Pressure Drop PSI													
	2	1.5	1	.05	3	2	1.5	1	0.5	3	2	1.5	1	0.5
ASF35S5-VV	3.3	2.2	1.5	1.2	6.6	3.7	2.6	1.9	1.6	6.1	3.2	2.0	1.4	1.0
ASF45S7-VV	6.7	4.7	3.1	1.7	12.1	8.0	5.6	3.6	2.0	9.8	6.3	4.5	2.8	1.5
ASF50S9-VV	9.5	6.7	4.3	2.3	19.1	12.2	8.2	4.9	2.6	15.8	10.0	6.7	4.0	2.0
ASF75S11-VV	12.0	8.7	5.6	3.0	24.0	15.0	10.0	6.5	3.2	20.0	13.0	8.3	5.1	2.6
ASF75S13-VV	13.5	9.5	6.3	3.4	24.9	15.7	10.6	6.7	3.3	20.8	12.8	8.4	5.2	2.7

<sup>1</sup> All ratings in accordance with ARI standard 730-86.

Connection	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10-24	PC-3 25
3/8 FL	1	EA	94388	ASF45F3VV 45 CU 3/8 FL SUCTION FILTER	—	—	—
5/8 ODF	1	EA	94374	ASF35S5-VV 5/8 ODF SUCT LINE FILTER	—	—	—
7/8 ODF	10	EA	94376	ASF45S7-VV 7/8 ODF SUCTION LINE FILTER	—	—	—
1-1/8 ODF	10	EA	94377	ASF50S9-VV 1-1/8 ODF SUCTION LINE FILTER	—	—	—
1-3/8 ODF	10	EA	94375	ASF75S11-VV SUCT LINE FILTER	—	—	—
1-5/8 ODF*	6	EA	94378	ASF75S13-VV 1-5/8/ SUCTION LINE FILTER	—	—	—

\* Maximum working pressure: 400 psig.



## ASD Suction Line Filter Driers



ASD suction line-filter driers incorporate a dessicant specially blended for maximum moisture and acid removal. These models are specially suited for system clean-up after a burnout, or when major work has been performed on the system.

- Rugged steel shells for shock resistance.
- Corrosion resistant finish.
- Low pressure drop; full flow fittings.
- Filtration to less than 10 microns.
- Full copper fittings are easy to sweat in.
- Safe working pressure to 500 psig.
- UL Listed: File No. SA 3124.

Model Number	Flow Capacity <sup>1</sup> in Tons @ 1 PSI D P Refrigerant													
	R-134a					R-22					R-404A/R-507			
	Evaporator Temperature ° F													
	40	20	0	-20	40	20	0	-20	-40	40	20	0	-20	-40
	Pressure Drop PSI													
	2	1.5	1	.05	3	2	1.5	1	0.5	3	2	1.5	1	0.5
ASD 28S3-VV	1.1	.62	.51	.39	2.3	1.3	.87	.64	.52	2.1	1.1	.68	.45	.33
ASD 28S4-VV	1.9	1.2	.83	.63	3.8	2.1	1.4	1.0	.83	3.6	1.8	1.1	.74	.53
ASD 35F5-VV	2.2	1.4	1.0	.75	4.4	2.5	1.7	1.2	0.9	4.1	2.1	1.3	.88	.64
ASD 35S5-VV	2.9	1.9	1.3	1.0	5.8	3.2	2.2	1.6	1.0	5.4	2.8	1.7	1.1	.84
ASD 45S6-VV	3.9	2.5	1.7	1.1	7.0	4.6	3.2	2.0	1.1	6.4	3.7	2.5	1.6	1.0
ASD 45S7-VV	5.1	3.5	2.2	1.3	9.2	6.0	4.1	2.6	1.4	7.5	4.8	3.3	2.0	1.1
ASD 50S9-VV	7.3	4.9	3.0	1.6	13.2	8.5	5.7	3.5	1.87	10.9	6.9	4.6	2.8	1.4
ASD 75S11-VV	8.8	5.8	3.5	1.8	16.2	10.2	6.7	4.0	2.0	13.6	8.4	5.4	3.2	1.6
ASD 75S13-VV	9.3	6.1	3.7	1.9	17.3	10.7	7.0	4.2	2.1	14.5	8.9	5.7	3.4	1.7

<sup>1</sup>All ratings in accordance with ARI standard 730-86.

Connection	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10-24	PC-3 25
3/8 ODF	10	EA	94329	ASD28S3-VV 3/8ODF SUCT LINE DRIER	—	—	—
1/2 ODF	10	EA	94330	ASD28S4-VV 1/2ODF SUCT LINE DRIER	—	—	—
5/8 SAE	10	EA	94328	ASD35F5-VV 5/8SAE SUCT LINE DRIER	—	—	—
5/8 ODF	10	EA	94331	ASD35S5-VV 5/8ODF SUCT LINE DRIER	—	—	—
3/4 ODF	10	EA	94332	ASD45S6-VV 3/4ODF SUCT LINE DRIER	—	—	—
7/8 ODF	10	EA	94333	ASD45S7-VV 7/8 ODF SUCTION LINE FILTER DRIER	—	—	—
1-1/8 ODF	10	EA	94334	ASD50S9-VV 1 1/8ODF SUCT LINE DRIER	—	—	—
1-3/8 ODF	6	EA	94335	ASD75S11-VV 1 3/8ODF SUCT LINE DRIER	—	—	—
1-5/8 ODF	6	EA	94336	ASD75S13-VV 1 5/8ODF SUCT LINE DRIER	—	—	—



**EMERSON**  
Climate Technologies

## SFD Suction Line Filter Driers



SFD suction line-filter driers incorporate a desiccant specially blended for maximum moisture and acid removal. These models are specially suited for system clean-up after a burnout, or when major work has been performed on the system.

- Full copper fittings are easy to sweat in.
- Dual access valves.
- Rugged steel shells for shock resistance.
- Corrosion resistant finish.
- Low pressure drop; full flow fittings.
- Maximum working pressure 400 psig.
- UL Listed: File No. SA 3124.

### SFD Flow Capacity in Tons at Listed Conditions\*

Model Number	Flow Capacity <sup>1</sup> in Tons @ 1 PSI D P Refrigerant													
	R-134a				R-22				R-404A/R-507					
	Evaporator Temperature ° F													
	40	20	0	-20	40	20	0	-20	-40	40	20	0	-20	-40
	Pressure Drop PSI													
	2	1.5	1	.05	3	2	1.5	1	0.5	3	2	1.5	1	0.5
SFD-13F3-VV	0.7	0.4	0.2	0.1	1.4	0.8	0.4	0.2	0.1	1.3	0.7	0.4	0.2	0.1
SFD-13S3-VV	1.3	0.8	0.5	0.2	2.2	1.3	0.8	0.5	0.2	1.9	1.1	0.7	0.4	0.2
SFD-13S4-VV	2.3	1.5	1.0	0.5	3.5	2.3	1.6	1.0	0.6	3.0	1.9	1.3	0.8	0.4
SFD-13F5-VV	2.5	1.7	1.1	0.6	3.7	2.4	1.6	1.0	0.6	3.2	2.0	1.4	0.9	0.5
SFD-13S5-VV	3.1	2.1	1.3	0.7	4.9	3.2	2.2	1.4	0.8	4.2	2.7	1.8	1.1	0.6
SFD-13S6-VV	4.1	2.7	1.7	0.9	6.4	4.2	2.8	1.8	1.0	5.6	3.5	2.3	1.4	0.7
SFD-13S7-VV	4.4	3.0	1.9	1.0	7.2	4.6	3.0	1.9	1.0	6.3	3.9	2.6	1.5	0.8

<sup>1</sup> All ratings in accordance with ARI standard 730-86.

Connection	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10-24	PC-3 25
3/8 ODF	1	EA	94364	SFD13S3-VV 3/8 ODF SUCT LINE FILTER DRIER	—	—	—
1/2 ODF	1	EA	94365	SFD13S4-VV 1/2 ODF SUCT LINE FILTER DRIER	—	—	—
3/4 ODF	10	EA	94361	SFD13S6-VV 3/4 ODF SUCT LINE FILTER DRIER	—	—	—
5/8 SAE	10	EA	94367	SFD13F5-VV 5/8 SAE SUCT LINE FILTER DRIER	—	—	—
5/8 ODF	10	EA	94360	SFD13S5-VV 5/8 ODF SUCT LINE FILTER DRIER	—	—	—
7/8 ODF	10	EA	94362	SFD13S7-VV 7/8 ODF SUCT LINE FILTER DRIER	—	—	—



## STAS Steel Take-Apart Shell Filter Driers

### For Liquid and Suction Line Service



These large capacity devices offer the flexibility of using either replaceable filter cores as protection against solid contaminants, or replaceable filter-drier blocks for protection against acid, moisture, and solids. They provide high liquid line flow capacities for larger air-conditioning and refrigeration jobs.

#### Features

- Simplified internal hardware for easy installation.
- Full flow fittings for low pressure drop.
- Corrosion-resistant epoxy paint finish.
- Sturdy steel shells for long life durability.
- Safe working pressure: 500 psig.
- UL Listed: File No. SA 3124.
- CSA Certified: File No. LR 32462 and LR 100624.

#### For Liquid Line Service

Connection	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10-24	PC-3 25
5/8 ODF	1	EA	94402	STAS-485T SHELL	—	—	—
7/8 ODF	1	EA	94403	STAS-487T SHELL	—	—	—
7/8 ODF	1	EA	94405	STAS-967T SHELL	—	—	—
1-1/8 ODF	1	EA	94404	STAS-489T SHELL	—	—	—
1-1/8 ODF	1	EA	94406	STAS-969T SHELL	—	—	—
1-1/8 ODF	1	EA	94409	STAS-1449T SHELL	—	—	—
1-3/8 ODF	1	EA	94407	STAS-9611T SHELL	—	—	—
1-3/8 ODF	1	EA	94410	STAS-14411T SHELL	—	—	—
1-3/8 ODF	1	EA	94415	STAS-4811T SHELL	—	—	—
1-5/8 ODF	1	EA	94408	STAS-9613T SHELL	—	—	—
1-5/8 ODF	1	EA	94416	STAS-4813T SHELL	—	—	—
1-5/8 ODF	1	EA	94419	STAS-14413T SHELL	—	—	—
2-1/8 ODF	1	EA	94413	STAS-19217T SHELL	—	—	—

#### For Suction Line Service

1-3/8 ODF	1	EA	94426	STAS-4811S-V SHELL	—	—	—
1-5/8 ODF	1	EA	94421	STAS-4813S-V SHELL	—	—	—
2-1/8 ODF	1	EA	94428	STAS-9617S-V SHELL	—	—	—
2-1/8 ODF	1	EA	94422	STAS-4817S-V SHELL	—	—	—
2-5/8 ODF	1	EA	94423	STAS-9621S-V SHELL	—	—	—



# STAS Filter Drier Ratings

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Climate Technologies

## STAS Liquid Line Filter-Drier Ratings

Model No.	Unit Size	Suggested Nominal System Tonnage <sup>1</sup>												
		Flow Capacity <sup>1</sup>				Refrigeration			Air Conditioning					
		Tons 1 PSIG D P				Low Temp. & Commercial Installations			Field Replacement and Field Installations			OEM Self-Contained Equipment		
		R-134A	R-22	R-404A/ R-507	R-410A	R-134A	R-22	R-404A/ R-507	R-134A	R-22/R-407 C/R-410A	R-404A / R-507	R-134A	R-22	R-404A/ R-507
STAS-485T	48	19	21	14	22	8	10	8	8	10	8	13	15	10
STAS-487T		35	38	25	41	10	13	10	10	12.5	10	15	20	13
STAS-489T		49	53	36	58	10	15	10	10	15	10	15	20	15
STAS-4811T		56	61	41	80	13	20	13	13	20	13	20	25	15
STAS-967T	96	38	41	28	45	20	25	15	20	25	15	25	35	20
STAS-969T		58	63	42	71	25	30	20	25	30	20	35	45	25
STAS-9611T		73	79	53	86	30	35	25	30	35	25	35	45	30
STAS-9613T		78	85	57	99	35	40	30	35	40	30	40	50	35
STAS-1449T	144	66	61	44	71	30	40	30	30	40	30	40	55	35
STAS-14411T		81	88	59	99	40	50	35	40	50	35	50	65	40
STAS-14413T		90	97	65	100	45	55	40	45	55	50	55	75	45
STAS-19211T	192	86	94	63	101	50	70	45	50	70	45	60	80	50
STAS-19217T		106	115	77	121	65	85	60	65	85	60	80	110	65

<sup>1</sup> Suggested nominal tonnage selection. By type or application. R-22 ratings in accordance with ARI standard 710-86.

## STAS Suction Line Filter Ratings

Model Number	Flow Capacity <sup>1</sup> in Tons @ 1 PSI D P Refrigerant													
	R-134a				R-22				R-404A/R-507					
	Evaporator Temperature ° F													
	40	20	0	-20	40	20	0	-20	-40	40	20	0	-20	-40
	Pressure Drop PSI													
	2	1.5	1	.05	3	2	1.5	1	0.5	3	2	1.5	1	0.5
STAS-489 S-V	8	6	4	1	15	9	7	4	1	13	8	6	4	2
STAS-4811 S-V	10	7	4	2	18	11	8	5	2	17	10	6	4	3
STAS-4813 S-V	13	8	5	3	23	13	10	6	3	20	12	7	5	4
STAS-4817 S-V	17	10	7	4	31	20	13	7	3	27	17	10	6	5
STAS-4821 S-V	20	13	8	4	40	27	17	10	5	37	20	13	8	6
STAS-9617 S-V	18	12	6	4	33	20	13	8	4	27	17	11	7	5
STAS-9621 S-V	25	17	10	5	47	28	18	11	6	40	23	17	10	7

<sup>1</sup> Capacities are based on 100°F liquid refrigerant temperature and suction gas superheated 10°F.

## STAS Suction Line Filter-Drier Ratings

Model Number	Flow Capacity <sup>1</sup> in Tons @ 1 PSI D P Refrigerant													
	R-134a				R-22				R-404A/R-507					
	Evaporator Temperature ° F													
	40	20	0	-20	40	20	0	-20	-40	40	20	0	-20	-40
	Pressure Drop PSI													
	2	1.5	1	.05	3	2	1.5	1	0.5	3	2	1.5	1	0.5
STAS-489 S-V	8	6	4	1	15	9	7	4	1	13	8	6	4	2
STAS-4811 S-V	10	7	4	2	18	11	8	5	2	17	10	6	4	3
STAS-4813 S-V	13	8	5	3	23	13	10	6	3	20	12	7	5	4
STAS-4817 S-V	17	10	7	4	31	20	13	7	3	27	17	10	6	5
STAS-4821 S-V	20	13	8	4	40	27	17	10	5	37	20	13	8	6
STAS-9617 S-V	18	12	6	4	33	20	13	8	4	27	17	11	7	5
STAS-9621 S-V	25	17	10	5	47	28	18	11	6	40	23	17	10	7
STAS-9625 S-V	33	20	13	6	64	40	27	15	7	53	33	20	13	8

<sup>1</sup> Capacities are based on 100° F liquid refrigerant temperature and suction gas superheated 10° F.



## Replaceable Filter Drier Cores and Blocks

### For ADKS and STAS Filter Drier Shells



Liquid and suction filter cores (F48R, F-100) and desiccant blocks (D-48, H-48, UK-48, W-48, H-100, W-100) fit interchangeably in type ADKS and STAS filter drier shells and all competitive shell type filter driers. These filter drier blocks protect the compressor from soluble and solid contaminants. To ensure efficient clean-up results, they feature exceptional acid and wax removal capacities, plus superior moisture pickup.

Use F filters in the suction line only. F filters are recommended as replacements after using a filter drier core.

Emerson	Danfoss	Sporlan	Parker	Virginia
D-48		RC-4864		
H-48	48-DC	RC-4864	PCK-48	VS-48H
UK-48	48-DM	RCW-4864	PCX-48	VS-48XH
W-48HH	48-DA	RCW-4864-HH	PCK-48HH	
H-100		RC-10098		VS-100H
W-100HH		RC-1009-HH		
		RCW-100		

Model No.	Description	Water Capacity Drops <sup>1</sup>					
		R-134a		R-22		R-404A/R-507	
		75°	125°	75°	125°	75°	125°
D-48	Standard Capacity	415	340	363	255	457	343
H-48	High Capacity	676	538	597	436	721	535
W-48	Burnout Block	387	294	335	226	417	289
UK-48	Ultra Kleen	1272	1168	1181	1072	1319	1241
H-100	High Capacity	1112	834	962	673	1199	839
W-100	Burnout Block	1240	865	848	590	930	630

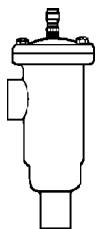
<sup>1</sup> Water capacities are based on an Equilibrium Point Dryness of 15 ppm for R-12, 60 ppm for R-22, and 30 ppm for R-502. 20 drops of water = 1 gram = 1 cc.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	94326	D-48 STANDARD REPL BLOCK	—	—
12	EA	94324	H-48 HIGH CAPACITY REPL BLOCK	—	—
12	EA	94322	UK-48 REPL BLOCK	—	—
12	EA	94327	W-48HH BURNOUT REPL BLOCK	—	—
4	EA	94325	H-100 REPL BLOCK	—	—
4	EA	94323	W-100HH REPL BLOCK	—	—
12	EA	94307	F-48R FILTER CORE	—	—
4	EA	94309	F-100 FILTER CORE	—	—



## BTAS Brass Take-Apart Filter Driers

### For Suction Line Service



Large capacity brass take-apart shells for suction line service are ideal for commercial refrigeration applications. Corrosion and rust resistant, with stainless steel bolts. These shells have the flexibility of using either filter-drier cartridges or filter cores.

- Full flow fittings for low pressure drop
- Corrosion free brass body
- Corrosion resistant stainless steel bolts
- Maximum working pressure: 400 psig
- UL Listed: File No. SA 3124

#### Filter Cores

For Alco Shell No.	Replaces Superior No.	For Superior Shell No.	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
BTAS-2	F25A	2CFA	12	EA	94314	A2F FILTER CORE	—	—
BTAS-3	F35A	3CFA	12	EA	94315	A3F FILTER CORE	—	—
BTAS-4	F45A	4CFA	12	EA	94316	A4F FILTER CORE	—	—
BTAS-5	F55A	5CFA	12	EA	94317	A5F FILTER CORE	—	—

#### Filter-Drier Cartridges

For Alco Shell No.	Replaces Superior No.	For Superior Shell No.	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
BTAS-2	DF25A	2CFA	12	EA	94318	A2FD FILTER DRIER	—	—
BTAS-3	DF35A	3CFA	12	EA	94319	A3FD FILTER DRIER	—	—
BTAS-4	DF45A	4CFA	12	EA	94320	A4FD FILTER DRIER	—	—
BTAS-5	DF55A	5CFA	12	EA	94321	A5FD FILTER DRIER	—	—



## ABV Ball Valves

**EMERSON**  
Climate Technologies



- Isolate suction, discharge, and liquid line pipework during maintenance shutdown periods
- Forged brass body
- Hermetic design
- Compatible with new refrigerants/lubricants
- Full internal ports through 2-1/8"
- Bi-directional flow characteristics
- Valve stem cap retained by strap attached to main body
- Integrated access port available on all sizes

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94438	ABV-2A 1/4 IN BALL VALVES W/ACCESS FITTING	—
1	EA	94429	ABV-3A 3/8 IN BALL VALVES W/ACCESS FITTINGS	—
1	EA	94430	ABV-4A 1/2 IN BALL VALVES W/ACCESS FITTINGS	—



## BVS Ball Valves

**EMERSON**  
Climate Technologies



- Forged brass body
- Compact, lightweight, hermetic design
- Compatible with HCFC and HFC refrigerants/lubricants including R-410A and CO<sub>2</sub>
- Full flow design
- Bi-directional flow characteristics
- Valve stem cap retained by strap attached to main body
- Integrated access port available on all sizes
- Low operating friction design

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94451	BVS 014 1/4 IN BALL VALVES W/ACCESS FITTINGS	—
1	EA	94452	BVS 038 3/8 IN BALL VALVES W/ACCESS FITTINGS	—
1	EA	94453	BVS 012 1/2 IN BALL VALVES W/ACCESS FITTINGS	—
1	EA	94454	BVS 058 5/8 IN BALL VALVES W/ACCESS FITTINGS	—
1	EA	94455	BVS 078 7/8 IN BALL VALVES W/ACCESS FITTINGS	—
1	EA	94456	BVS 118 1-1/8 IN BALL VALVES W/ACCESS FITTINGS	—
1	EA	94457	BVS 138 1-3/8 IN BALL VALVES W/ACCESS FITTINGS	—
1	EA	94458	BVS-158 1-5/8 IN BALL VALVES W/ACCESS FITTINGS	—
1	EA	94437	BVS-218 2-1/8 IN BALL VALVES W/ACCESS FITTINGS	—



## HMI Hermetic Moisture Indicators



### Application

- The HMI was designed to provide an accurate method of determining the moisture content of a system's refrigerant.
- Unique 3% high accuracy moisture indicator for CFC, HCFC and HFC refrigerants, including R-410A.

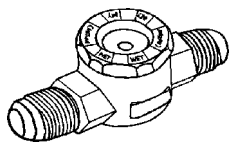
### Features

- Fully Hermetic Design.
- 3% relative humidity indication compared to 10% paper indicators.
- Single indicator for all common refrigerants.
- Accurate color calibration at low ppm levels and higher temperatures.
- Wide angle viewing/high visibility window for ease of monitoring.
- All brass corrosion resistant body.
- Solid copper fittings.

Style	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10-24	PC-3 25
Swivel Nut x Swivel Nut	1	EA	94338	HMI-1MM5 5/8 SAE LIQ IND PCN 065394	—	—	—
Female Flare x Male Flare	12	EA	94342	HMI-1FM2 1/4 SAE LIQ IND	—	—	—
Female Flare x Male Flare	12	EA	94343	HMI-1FM3 3/8 SAE LIQ IND	—	—	—
Female Flare x Male Flare	12	EA	94344	HMI-1FM4 1/2 SAE LIQ IND	—	—	—
M Flare x F Flare S Nut	12	EA	94345	HMI-1MU3 3/8 SAE-SWIVEL LIQ IND	—	—	—
M Flare x F Flare S Nut	12	EA	94346	HMI-1MU4 1/2 SAE-SWIVEL LIQ IND	—	—	—
ODF x ODF	12	EA	94373	HMI-1TT9 1-1/8 ODF LIQUID INDICATOR	—	—	—
ODF with Extended Ends	15	EA	94379	HMI-1TT2 1/4 ODF LIQ IND	—	—	—
ODF with Extended Ends	15	EA	94380	HMI-1TT3 3/8 ODF LIQ IND	—	—	—
ODF with Extended Ends	15	EA	94381	HMI-1TT4 1/2 ODF LIQ IND	—	—	—
ODF with Extended Ends	15	EA	94382	HMI-1TT5 5/8 ODF LIQ IND	—	—	—
ODF with Extended Ends	15	EA	94383	HMI-1TT7 7/8 ODF LIQ IND	—	—	—



## AMI Moisture-Liquid Indicators



The AMI Moisture-Liquid Indicator was designed to provide an accurate method of determining the quality and moisture content of a system's refrigerant.

### AMI-2

The bushing type of construction used in this model AMI allows installation directly in large liquid lines rather than in branch lines. This insures that viewed conditions are a true representation of the quality of the system refrigerant and eliminates the false indications that may be caused by branch line installations.

### Features

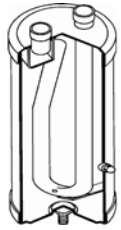
- Single indicator for all common refrigerants.
- Accurate color calibration (Wet, Caution, Dry).
- Straight-through flow pattern.
- Max. working pressure: 600 psig.
- Burst pressure: 2500 psig.

Style	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10-24	PC-3 25
Male Flare x Male Flare	12	EA	94341	AMI-1MM5 5/8 SAE LIQ IND	—	—	—
ODF x ODF	12	EA	94354	AMI-1S57 7/8 ODF LIQ IND	—	—	—
2 Series ODM	12	EA	94356	AMI-2S11 1 3/8 ODM LIQ IND	—	—	—





## AAS Suction Accumulators



AAS accumulators feature an inlet deflector that blends refrigerant flow to prevent internal splashing and aid in the collection of refrigerant oil in the bottom connection of the accumulator. It assures adequate oil return, return of refrigerant vapor only and prevents compressor failure due to liquid refrigerant entering the compressor.

- For use with HCFCs, HFCs and the lubricants that go with them.
- Designed to operate in a range of +40° F to -40° F evaporator temperature.
- Fusible plug on larger diameter units.
- Solid copper fittings.
- Corrosion resistant epoxy powder paint finish.

### Dimensional Data

Model Number	Inlet Fitting Size Nominal	Unit Weight (Lbs.)	Diameter (In.)	Length (In.)	Distance from Inlet to Outlet (In.)	Tons R-22 (+40° F)	Holding Capacity (Lbs.) 50% Full	
							40° F Liquid R22/R134a	40° F Liquid R404A/R507
A-AS 3 105 <sup>1</sup>	5/8	2.4	3	10	1.63	3	2	2
A-AS 3 146 <sup>1</sup>	3/4	3.3	3	14	1.63	4	3.5	2.75
A-AS 5 97	7/8	5.1	5	9	2.75	7.3	6	5.5
A-AS 5 137	7/8	7.1	5	13	2.75	7.3	8.5	8
A-AS 6 139	1-1/8	11.7	6	13	2.94	11.8	12	11
A-AS 6 1141	1-3/8	12.1	6	14	2.94	18.8	15	12
A-AS 6 2513	1-5/8	22.6	6	25	2.94	28.5	25	20

<sup>1</sup> Not supplied with a fusible plug.

### Accumulator Capacity (Tons)

Model Number	R-22					R-404A/R-507				
	-40° F	-20° F	0° F	20° F	40° F	-40° F	-20° F	0° F	20° F	40° F
A-AS 3 105	0.5	0.8	1.4	2.1	3.0	0.4	0.6	1.2	1.6	2.0
A-AS 3 146	.72	1.1	1.8	2.8	4.0	0.4	0.7	1.5	2.0	2.6
A-AS 5 97	1.3	2.0	3.3	5.1	7.3	0.8	1.3	2.7	3.6	4.6
A-AS 5 137	1.3	2.0	3.3	5.1	7.3	0.8	1.3	2.7	3.6	4.6
A-AS 6 139	2.1	3.3	5.3	8.3	11.8	1.4	2.1	4.4	5.9	7.6
A-AS 6 1141	3.4	5.3	8.5	13.2	18.8	2.2	3.4	7.2	9.6	12.2
A-AS 6 2513			12.8	20.8	28.5	3.3	5.1	10.7	14.2	18.2

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94439	AAS-3-105 5/8 10" SUCTION ACCUMULATOR	—
1	EA	94440	AAS-3-146 3/4 14" SUCTION ACCUMULATOR	—
1	EA	94441	AAS-5-97 7/8 9" SUCTION ACCUMULATOR	—
1	EA	94442	AAS-5-137 7/8 13" SUCTION ACCUMULATOR	—
1	EA	94443	AAS-6-139 1-1/8 13" SUCTION ACCUMULATOR	—
1	EA	94444	AAS-6-1411 1-3/8 14" SUCTION ACCUMULATOR	—
1	EA	94445	AAS-6-2513 1-5/8 25" SUCTION ACCUMULATOR	—



## Spun Copper Service Drier



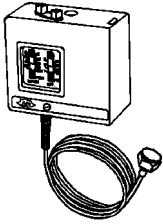
Designed for evacuating and charging refrigeration systems, these driers are approved for systems not originally equipped with high side valve bodies. Gauges attach to high and low sides.

Model No.	Inlet Tube Size (In.)	Outlet Tube Size (In.)	Diameter (In.)	Overall Length (In.)	Tonnage	
					R-12/R-134a	R-22
620	5/16 OD / 1/4 ID	.127/.130 Cap Tube	1	9-1/2	1	2
MMS80	1/4 OD / 3/16 ID	1/4 OD / 3/16 ID	3/4	7-3/8	1/3	1/2

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10-24	PC-3 25
25	EA	90446	620 DRIER	—	—	—
1	PKG	90450	MMS80 DRIER 3 PACK	—	—	—
100	EA	94090	MMS80(032402-00) 1/4 INCH COPPER SPUN DRIER W/ PLASTIC CAPS	—	—	—



## FF-115 Single High Pressure Controls



The FF115 High Pressure Controls are designed to sense the high side pressure in refrigeration systems for high pressure limit, alarm, and condenser fan control. Maximum application flexibility is assured by using a heavy-duty 24 amp single pole double throw (SPDT) switch and wide range pressure setting capability.

- Heavy-duty 24 amp rating.
- SPDT switch to provide open or close on pressure rise for maximum application flexibility.
- Standard accessories include mounting bracket and knob with lockplate.

Pressure Range	Switch Action	Pressure Connection	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
90 to 450	SPDT	36" Cap. w/ 1/4" Flare Nut	1	EA	92594	PS1-X5K HI PRESS FAN CYCLING	—



## LAC Head Pressure Control Valves



The LAC stands for Low Ambient Control. The LAC-4 is a three-way modulating valve that responds to discharge pressure. The LAC-5 and LAC-10 are also three-way modulating valves but they respond to receiver pressure.

Refrigerant Min. Ambient Temp. (° F)	R-22														
	-20					0					20				
Pressure Drop (psi)	2	5	10	15	20	2	5	10	15	20	2	5	10	15	20
LAC-4	2.49	3.89	5.44	6.59	7.54	2.68	4.20	5.86	7.10	8.12	2.93	4.59	6.40	7.75	8.86
LAC-5	4.43	6.98	9.84	12.0	13.8	4.77	7.52	10.6	12.9	14.9	5.20	8.21	11.6	14.1	16.2
LAC-10	10.6	16.4	22.8	27.6	31.4	11.3	17.6	24.5	29.5	33.6	12.3	19.1	26.5	31.9	36.3
Refrigerant	R-134a														
LAC-4	2.07	3.23	6.40	7.75	8.86	2.25	3.51	4.88	5.88	6.69	2.50	3.89	5.41	6.51	7.40
LAC-5	3.69	5.82	11.6	14.1	16.2	4.01	6.31	8.87	10.8	12.4	4.44	6.99	9.82	12.0	13.7
LAC-10	8.82	13.7	26.5	31.9	36.3	9.54	14.8	20.4	24.4	27.6	10.5	16.3	22.4	26.8	30.3
Refrigerant	R-404A														
LAC-4	1.78	2.79	3.91	4.74	5.43	1.90	2.98	4.17	5.05	5.78	2.06	3.22	4.50	5.45	6.24
LAC-5	3.17	5.01	7.06	8.61	9.91	3.38	5.33	7.51	9.17	10.6	3.64	5.75	8.11	9.90	11.4
LAC-10	7.59	11.8	16.5	19.9	22.7	8.05	12.5	17.5	21.1	24.0	8.65	13.5	18.7	22.6	25.7
Refrigerant	R-507														
LAC-4	1.75	2.75	3.84	4.66	5.34	1.88	2.95	4.13	5.01	5.73	2.05	3.21	4.48	5.44	6.22
LAC-5	3.12	4.92	6.94	8.47	9.74	3.34	5.28	7.44	9.08	10.5	3.63	5.73	8.08	9.87	11.4
LAC-10	7.45	11.6	16.2	19.6	22.3	7.96	12.4	17.3	20.8	23.8	8.61	13.4	18.6	22.5	25.6

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94163	LAC-5-100 100 PSI 5/8" HEAD PRESS CONTROL	—
1	EA	94164	LAC-4-180 180 PSI 3/8 " HEAD PRESS CONTROL	—
1	EA	94165	LAC-4-180 1/2 IN 180 PSI HEAD PRESSURE REG	—
1	EA	94166	LAC-5-180 5/8" 180 PSI HEAD PRESSURE CONTROL	—
1	EA	94167	LAC-10-180 1 1/8" 180 PSI HEAD PRESS CONTROL	—
1	EA	94168	LAC-5-210 5/8 ODF 210 PSI HEAD PRESSURE CONTROL	—
1	EA	94169	LAC-4-210 3/8 ODF R404 HEADMASTER PRESSURE CONTROL 903005P	—



# ORIT Evaporator Pressure Regulating Valve



- Adjustable: easy to tune to the exact system requirements
- Hermetic construction: no gasket or seals to leak
- Brass and copper construction: excellent corrosion resistance
- Inlet pressure tap: service and system friendly
- Inlet strainer: eliminates fouling by foreign debris
- Open on rise of inlet pressure
- Brass bellows element
- Copper ODF solder connection
- Brass SAE flare connection

Valve Type and Adj Range	Evaporator Design Temp (° F)	Saturation Pressure-psig				Refrigerant															
		Refrigerant				22				134a				404A				507			
		22	134a	404A	507	Pressure Drop Across Valve - psi															
						2	5	10	20	2	5	10	20	2	5	10	20	2	5	10	20
ORIT-6	40	68.6	35.0	85.7	89.8	1.27	1.90	2.45	2.80	0.94	1.35	1.57	1.57	1.11	1.67	2.18	2.56	1.09	1.65	2.16	2.57
	30	54.9	26.1	69.7	73.3	1.14	1.69	2.13	2.31	0.82	1.15	1.26	1.26	0.98	1.47	1.88	2.10	0.97	1.45	1.87	2.13
	20	43.1	18.4	55.7	58.8	1.02	1.49	1.82	1.89	0.72	0.96	1.00	1.00	0.87	1.28	1.60	1.70	0.86	1.27	1.60	1.72
	10	32.9	12.0	43.5	46.2	0.90	1.29	1.51	1.52	0.61	0.78	0.79	0.79	0.76	1.10	1.33	1.36	0.75	1.10	1.34	1.38
0/50 or 30/100	0	24.0	6.5	33.0	35.2	0.79	1.11	1.22	1.22	0.52	0.62	0.62	0.62	0.66	0.93	1.07	1.07	0.65	0.93	1.09	1.09
	-10	16.5	2.0	24.0	25.8	0.69	0.93	0.98	0.98	0.43	0.48	0.48	0.48	0.57	0.78	0.84	0.84	0.56	0.78	0.86	0.86
	-20	10.2	—	16.3	17.8	0.60	0.76	0.77	0.77	—	—	—	—	0.48	0.64	0.66	0.66	0.48	0.64	0.67	0.67
	-30	4.9	—	9.9	11.1	0.51	0.60	0.60	0.60	—	—	—	—	0.40	0.50	0.50	0.50	0.40	0.51	0.52	0.52
	-40	0.6	—	4.6	5.5	0.42	0.46	0.46	0.46	—	—	—	—	0.33	0.38	0.38	0.38	0.33	0.39	0.39	0.39

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94160	ORIT-6 30/100 7/8 EVAP PRESS REG 901180P	—



## CROT Crankcase Pressure Regulating Valves



The crankcase pressure regulating valves are designed to prevent overloading of the compressor motor by limiting the crankcase pressure during and after a defrost cycle or after a normal shutdown period. When properly installed in the suction line, these valves automatically throttle the vapor flow from the evaporator until the compressor can handle the load.

- Close on rise of outlet pressure
- Pressure tap on outlet connection

Type and Adjustment Range	Design Evaporator Temp(° F)	Saturated Suction Pressure - psig	Pressure Drop Across valve (psi)																		
			.5						1						2						
			Valve Settings (psig)																		
			10	20	30	40	50	60	10	20	30	40	50	60	10	20	30	40	50	60	
CRO(T)-6 0/60	<b>Refrigerant</b>		<b>R-22</b>																		
	-40	0.6	0.26	0.39	0.52	0.64	0.64	0.64	0.36	0.54	0.72	0.89	0.89	0.89	0.46	0.71	0.97	1.21	1.21	1.21	
	-20	10.2	—	0.36	0.52	0.69	0.84	0.84	—	0.49	0.72	0.96	1.18	1.18	—	0.66	0.97	1.32	1.62	1.62	
	-10	16.5	—	0.29	0.47	0.66	0.84	0.95	—	0.39	0.66	0.92	1.18	1.34	—	0.52	0.90	1.27	1.65	1.85	
	0	24.0	—	—	0.38	0.59	0.80	1.01	—	—	0.52	0.82	1.12	1.42	—	—	0.71	1.13	1.55	1.97	
	10	32.8	—	—	—	0.45	0.69	0.92	—	—	—	0.63	.96	1.30	—	—	—	0.86	1.33	1.81	
	20	43.1	—	—	—	—	0.50	0.76	—	—	—	—	.70	1.07	—	—	—	—	0.96	1.48	
	30	55.0	—	—	—	—	—	0.50	—	—	—	—	—	0.70	—	—	—	—	—	0.96	
	<b>Refrigerant</b>			<b>R-134a</b>																	
	-40	14.7	0.23	0.31	0.39	0.40	0.40	0.40	0.29	0.41	0.53	0.55	0.55	0.55	0.35	0.51	0.68	0.71	0.71	0.71	
	-20	3.6	0.25	0.37	0.48	0.56	0.56	0.56	0.34	0.50	0.66	0.78	0.78	0.78	0.43	0.66	0.88	1.05	1.05	1.05	
	-10	2.0	0.25	0.38	0.51	0.64	0.65	0.65	0.34	0.52	0.71	0.89	0.91	0.91	0.43	0.69	0.95	1.21	1.24	1.24	
	0	6.5	0.22	0.37	0.52	0.67	0.76	0.76	0.30	0.51	0.73	0.94	1.05	1.05	0.38	0.68	0.98	1.28	1.45	1.45	
	10	12.0	—	0.34	0.51	0.69	0.85	0.87	—	0.46	0.71	0.95	1.19	1.21	—	0.62	0.95	1.30	1.64	1.67	
	20	18.4	—	0.26	0.45	0.65	0.84	0.99	—	0.35	0.63	0.90	1.18	1.38	—	0.47	0.85	1.24	1.63	1.92	
	30	26.1	—	—	0.35	0.56	0.78	1.01	—	—	0.48	0.79	1.10	1.41	—	—	0.64	1.08	1.52	1.96	
	40	35.0	—	—	—	0.42	0.67	0.71	—	—	—	0.58	0.93	0.99	—	—	—	0.79	1.28	1.38	
	<b>Refrigerant</b>			<b>R-404A</b>																	
	-40	4.6	0.16	0.26	0.36	0.46	0.49	0.49	0.22	0.36	0.50	0.63	0.68	0.68	0.28	0.48	0.67	0.86	0.94	0.94	
	-20	16.3	—	0.20	0.33	0.46	0.60	0.67	—	0.28	0.46	0.62	0.85	0.93	—	0.37	0.63	0.89	1.17	1.30	
	-10	24.0	—	—	0.27	0.42	0.58	0.72	—	—	0.37	0.59	0.81	1.01	—	—	0.51	0.81	1.13	1.40	
	0	33.0	—	—	—	0.33	0.51	0.67	—	—	—	0.45	0.71	0.94	—	—	—	0.62	0.99	1.30	
	10	43.5	—	—	—	—	0.38	0.55	—	—	—	—	0.52	0.78	—	—	—	—	0.72	1.08	
	20	55.7	—	—	—	—	—	0.36	—	—	—	—	—	0.50	—	—	—	—	—	0.68	
	<b>Refrigerant</b>			<b>R-507</b>																	
	-40	5.5	0.15	0.25	0.35	0.44	0.49	0.49	0.21	0.35	0.48	0.62	0.68	0.68	0.26	0.46	0.65	0.85	0.93	0.93	
	-20	17.8	—	—	0.31	0.44	0.57	0.66	—	—	0.43	0.62	0.80	0.93	—	—	0.59	0.85	1.10	1.29	
	-10	25.8	—	—	0.24	0.39	0.54	0.69	—	—	0.33	0.54	0.75	0.97	—	—	0.45	0.75	1.04	1.35	
0	35.2	—	—	—	0.29	0.45	0.63	—	—	—	0.40	0.63	0.88	—	—	—	0.54	0.87	1.23		
10	46.2	—	—	—	—	0.30	0.50	—	—	—	—	—	0.42	0.71	—	—	—	0.58	0.98		

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94161	CROT-6 0/60 5/8 CC PRESS REG	—
1	EA	94162	CROT-6 0/60 7/8 CRANKCASE PRESS REG	—



## SEC99A UltraCap Armored Capillary



The SEC99A UltraCap Armored Capillary is designed for use as a pressure connection in refrigeration and air-conditioning applications. This small orifice capillary minimizes pressure pulsation, and the brass armor sleeve improves resistance to abrasion caused by vibration. The copper capillary inside the armored sleeve allows no effusion of refrigerant to the environment.

### Fittings

- Straight: 1/4 inch female flare connector with Schrader depressor.
- 90° Elbow: 1/4 inch female flare connect with Schrader depressor.
- Material: Forged brass nut with copper stem.
- UL Recognized: File SA9457, CCN SFCS2
- UL Recognized for Canada: SA9457, CCNSFCS8

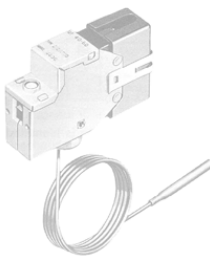
### Specifications

Model Number	Description	Capillary Diameters (In.)	Temp. Range	Burst Pressure	Max. Working Pressure	Suggested Torque to Seal
SEC99AA24C	Two straight fittings Length: 24 In.	Inside: 0.062 Outside: 0.125	-50 to 350 F	3000 psig ( 20685 kPa)	600 psig (4137 kPa)	8 to 10 lb. Ft.
SEC99AB24C	One straight and one 90 degree fitting Length: 24 In.					
SEC99AB-60C	One straight and one 90 degree fitting Length: 60 In.					

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75338	SEC99AB-60C 60IN ECO SAFE HOSE	—
1	EA	75237	SEC99AA-24C 24IN TWO STRAIGHT FITTINGS SAFE HOSE	—
1	EA	75238	SEC99AB-24C 24IN ONE STRAIGHT & ONE 90 FITTING SAFE HOSE	—



## P20 Series Air Conditioning/Pressure Cutout Control



The P20 Series are field replacement high and low pressure controls for non-corrosive refrigerants. They include a dust-tight contact unit with quick connect connectors, and a 6 in. capillary with 1/4 in. sweat section. The set point is screwdriver adjustable

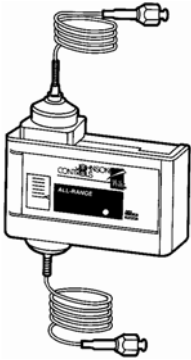
- Accurate repeatability
- Compact size
- Trip-free manual reset

Model No.	Switch Action	Range psig (kPa)	Differential psi (kPa)	Factory Setting psig (kPa)		Max. Bellows Pressure psig (kPa)
				Opens	Closes	
P20EB-2	SPDT	100 to 425 (690 to 2930)	75 (483) Fixed	400 (2758)	324 (2275)	450 (3103)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	75371	P20EB-2C 36IN CAP AIR CONDITIONING PRESSURE CONTROL	—	—



## P28 Lube Oil Pressure Cutout Control



Series P28 provides dependable protection against major breakdowns on pressure lubricated refrigeration compressors by guarding against low tube oil pressure.

A built-in time delay switch, accurately compensated for ambient temperature, allows for pressure pick up on start and avoids nuisance shutdowns on pressure drops of short duration during the running cycle.

- Direct-reading scale indication.
- Adjustable setpoint
- Trip-free manual reset.
- Replacement timing relays available.
- Dust-tight contact enclosures.

Model No.	Time Delay	Heater Circuit VAC	Type of Reset	Range* psig (kPa)	Refrigerant	Pressure Connection
P28AA-1	90 Sec.	120/240	Manual	8 to 70 (55 to 483)	Non-Corrosive All-Range	36" Cap. with 1/4" Flare Nut
P28AA-17	120 Sec.	120/240	Manual	8 to 70 (55 to 483)	Non-corrosive all-range	36" Cap. with 1/4" Flare Nut

\*Switch differential approximately 5 psi.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	75379	P28AA-1C 90 SECOND OIL PROTECTION CONTROL	—	—
1	EA	75381	P28AA-17C 120 SECOND OIL PROTECTION CONTROL	—	—



## P45 Lube Oil Pressure Cutout Control For Use With Copeland Compressors



The P45 control provides dependable low lube oil cut-out for pressure lubricated refrigeration compressors. The factory set pressure setting provides operation to the compressor manufacturer's specification. A built-in time delay relay, compensated for ambient temperature, allows for pressure pick-up on start and avoids nuisance shut downs on short duration pressure losses during the running cycle.

- **Time Delay:** 120 seconds
- **Time Delay Heat Circuit:** 120/240 VAC
- **Pilot Duty:** 750 VA. 120/240 VAC
- **Range:** 7-60 psig
- **Max. Bellows Pressure:** 425psig (2930 kPa)
- **Refrigerant:** non-corrosive
- **Pressure Connection:** 36" Cap. with 1/4" flare nut
- **Manual Reset**
- **Factory Setting:** 9 psig (62 kPa)\*

\* Switch differential approximately 5 psi.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	75391	P45NCA-12C 120 SECOND OIL PRESSURE CONTROL	—	—



## P545 Electronic Lube Oil Control For Use With Copeland Compressors



The P545 control is designed for use on refrigeration compressors equipped with an oil pump that accepts a single-point differential pressure switch. Front-mount LEDs indicate the status of the lubrication system, and a user-selectable, minimum-off delay can be set to minimize compressor short cycling.

Single-pole Double-Throw (SPDT) relay contacts for liquid line solenoid and alarm applications allow liquid line solenoid to be closed

if the P545 control shuts off the compressor due to low oil pressure; provides alarm indication, including circuits that use neon lights. Built-in test circuit verifies proper control operation quickly.

Jumper-selectable anti-short cycle time delays provide for a wide range of anti-short cycle strategies that meet most equipment requirements.

**Time Delay:** 120 seconds

**Refrigerant:** non-corrosive

**Power Requirements:** 120 or 240 VAC

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75236	P545NCB-22C ELECTRONIC LUBE OIL CONTROL	—



## P70 Series Pressure Controls Single Pole Low Pressure



P70 controls are for air conditioning and refrigeration applications. They control air, water, and oil pressure. The P70 Series of controls employs a set of SPST contacts that are opened and closed from the pressure actuated bellows. The load-carrying contacts provide direct control of AC motors within the control rating.

- Full adjustability through all pressure ranges.
- Minimum differential.
- Manual reset models are "trip-free".

Model No.	Switch Action	Range PSIG(kPa)	Differential PSI(kPa)	Pressure Connector	Limited Knob Adjustment	Max. Bellows Pressure PSIG(kPa)
<b>"All Range" For R-12, R-22, R-500, R-502</b>						
P70AB-1 <sup>1</sup>	Close High Open Low	20" to 100 (-68 to 690)	Min. 7 (48) Max. 50(345)	1/4" Male Flare Conn.	Cutoff‡	325 (2241)
P70AB-2 <sup>2</sup>	Close High Open Low	20" to 100 (-68 to 690)	Min. 6 (41) Max. 50 (345)	3/8" Cap. with 1/4" Flare Nut	Cutoff‡	325 (2241)
P70CA-1 <sup>3</sup>	Open High Close Low	20" to 100 (-68 to 690)	Min. 6 (41) Max. 50 (345)	3/8" Cap. with 1/4" Flare Nut	None	325 (2241)

<sup>1</sup> Replaces Ranco 010-1401, 010-1831

<sup>2</sup> Replaces Ranco 010-1483

<sup>3</sup> Replaces Ranco 011-3099

‡ Adjusting knob supplied on differential (low side cutout setting) to limit adjustment 5 PSI (34kPa) above or below.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	75375	P70AB-2C CLOSE HIGH:OPEN LOW PSIG 20 TO 100 PRESSURE CONTROL	—	—
1	EA	75384	P70CA-1C SPST PRESSURE CONTROL	—	—
1	EA	75473	P70AB-1C SPST PRESSURE CONTROL	—	—



## P70 Series Pressure Controls

### Single Pole High Pressure



P70 controls are for air conditioning and refrigeration applications. They control air, water, and oil pressure. The P70 Series of controls employs a set of SPST contacts that are opened and closed from the pressure actuated bellows. The load-carrying contacts provide direct control of AC motors within the control rating.

- Full adjustability through all pressure ranges.
- Minimum differential.
- A variety of pressure connection styles are available
- Manual reset models are "trip-free".

Model No.	Switch Action	Range PSIG(kPa)	Differential PSI(kPa)	Pressure Connector	Max. Bellows Pressure PSIG(kPa)
<b>Head Pressure Fan Cycling</b>					
P70AA-118*	Close High Open Low	100 to 400 (690 to 2758)	Min. 35 (241) Max. 200 (1379)	36" Cap. with 1/4" Flare Nut	500 (3447)
<b>"All Range" for R-12, R-22, R-500, R-502</b>					
P70CA-3	Open High Close Low	50 to 450 (345 to 3103)	Min. 60 (414) Max. 150 (1034)	36" Cap. with 1/4" Flare Nut	475 (3275)
P70DA-1	Open High Close Low	50 to 450 (345 to 3103)	Lockout (Requires Manual Reset)	36" Cap. with 1/4" Flare Nut	475 (3275)
<b>"All Range" for R-410A</b>					
P70AA-400	Condenser Fan Cycling Open Low	100 to 470 (689 to 3241)	Adjustable 35 to 200 (241 to 1379)	36" Cap. with 1/4" Flare Nut	690
P70DA-400	Open High	200 to 610 (1379 to 4206)	Manual Reset Lockout	36" Cap. with 1/4" Flare Nut	690

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	75232	P70AA-400C ADJUSTABLE ON/OFF R410A PRESSURE CONTROL	—	—
1	EA	75233	P70DA-400C R410A ADJUSTABLE ON/OFF PRESSURE CONTROL	—	—
1	EA	75253	P70DA-1C PRESSURE CONTROL	—	—
1	EA	75382	P70AA-118C SPST FAN CYCLING PRESSURE CONTROL	—	—
1	EA	75383	P70CA-3C SPST PRESSURE CONTROL	—	—





## P70 Series Pressure Controls

### Single Pole Dual Pressure



P70 controls are for air conditioning and refrigeration applications. They control air, water, and oil pressure. The P70 Series of controls employs a set of SPST contacts that are opened and closed from the pressure actuated bellows. The load-carrying contacts provide direct control of AC motors within the control rating.

- Full adjustability through all pressure ranges.
- Minimum differential.
- A variety of pressure connection styles are available
- Manual reset models are "trip-free".

Model No.	Switch Action	Low Press. PSIG(kPa)		High Press. PSIG (kPa)		Pressure Connector	Limited Knob Adj.	Max. Bellows Press. PSIG(kPa)
		Range	Differential	Range	Diff. (Non-Adj.)			
<b>Micro-Set for R-12, R-22, R-500, R-502</b>								
P70LB-6C <sup>1</sup>	SPST	12" to 80 (-41 to 345)	Min. 5 (41) Max. 35 (241)	100 to 425 (690 to 2930)	Under 300 PSIG 55 PSI, Over 300 PSIG 65 PSI	36" Cap. w/ 1/4" Flare Nut	Cutout*	500 Low (3447) 475 High (3275)
<b>"All Range" for R-12, R-22, R-500, R-502</b>								
P70LB-1C <sup>2</sup>	SPST	20" to 100 (-68 to 690)	Min. 6 (41) Max. 50 (345)	100 to 425 (690 to 2930)	Under 300 PSIG 55 PSI, Over 300 PSIG 65 PSI	36" Cap. w/ 1/4" Flare Nut	Cutout*	325 Low (2241) 450 High (3103)
P70SA-1C <sup>3</sup>	SPST	20" to 100 (-68 to 690)	Min. 6 (41) Max. 5 (345)	100 to 425 (690 to 2930)	Lockout (Requires Manual Reset)	36" Cap. w/ 1/4" Flare Nut	None	325 Low (2241) 450 High (3103)
P70NA-1C <sup>4</sup>	SPST	20" to 100 (-68 to 690)	Lockout (Manual Reset)	100 to 425 (690 to 2930)	Lockout (Requires Manual Reset)	36" Cap. w/ 1/4" Flare Nut	None	325 Low (2241) 450 High (3103)

<sup>1</sup> Replaces Ranco 012-1505, 012-1506, 012-1554

<sup>2</sup> Replaces Ranco 012-1549

<sup>3</sup> Replaces Ranco 012-4834 4

<sup>4</sup> Replaces Ranco 012-1594

\* Adjusting knob supplied on differential (low side cutout setting) to limit adjustment 5 PSI (34kPa) above or below.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	75261	P70LB-6C SPST PRESSURE CONTROL	—	—
1	EA	75262	P70NA-1C SPST PRESSURE CONTROL	—	—
1	EA	75376	P70LB-1C SPST DUAL PRESSURE CONTROL	—	—
1	EA	75385	P70MA-1C SPST DUAL PRESSURE CONTROL	—	—



## P170 Series Pressure Controls



P70 controls are for air conditioning and refrigeration applications. They control air, water, and oil pressure. The P70 Series of controls employs a set of SPST contacts that are opened and closed from the pressure actuated bellows. The load-carrying contacts provide direct control of AC motors within the control rating.

- Full adjustability through all pressure ranges.
- Minimum differential.
- A variety of pressure connection styles are available
- Manual reset models are "trip-free".

Model No.	Switch Action	Low Press. PSIG(kPa)		High Press. PSIG (kPa)		Pressure Connector	Limited Knob Adj.	Max. Bellows Press. PSIG(kPa)
		Range	Differential	Range	Diff. (Non-Adj.)			
P170AA-118C	SPST	—	Min. 35 (241) Max. 200 (1379)	100 to 400 (690 to 2758)	—	1/4" Male Flare Conn.	Cutout	475 (3275)
P170AB-12C	SPST	12" to 80 (-41 to 551)	Min. 5 (34) Max. 35 (241)	—	—	1/4" Male Flare Conn.	Cutout	525 (3617)
P170LB-1*	SPST	20" to 100 (-68 to 690)	Min. 7 (48) Max. 50 (345)	100 to 500 (690 to 3447)	Fixed Approx. 65 (448)	1/4" Male Flare Conn.	Cutout	325 Low (2241) 525 High (3620)
P170LB-6*	SPST	12" to 80 (-41 to 552)	Min. 35 (241) Max. 200 (1379)	100 to 400 (690 to 2758)	Fixed Approx. 65 (448)	1/4" Male Flare Conn.	Cutout	475 (3275)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	75401	P170AA-118C 100/400#PSIG 5BU DIFF ADJ .35/200# PRESSURE CONTROL	—	—
1	EA	75400	P170AB-12C PRESSURE CONTROL	—	—
1	EA	75405	P170LB-1C 20IN/100 PSIG PRESSURE CONTROL	—	—
1	EA	75406	P170LB-6C 80 PSIG LS 5 BU RANGE 100/425 PSIG PRESSURE CONTROL	—	—



# P100 Encapsulated Pressure Switches



P100 switches are encapsulated, nonadjustable, SPST, direct mount controls for use with noncorrosive refrigerants. The controls are available with automatic reset in both open low and open high configurations and manual reset with open high action. Typical applications include low limit, high limit, and fan cycling control in commercial refrigeration, ice machines, and food service equipment.

- Compact size and light weight allow for direct mounting.
- Use with all non-corrosive refrigerants.
- 1/4 in. female flare fitting with built-in Schrader type depressor is standard.
- Encapsulated switch, dust tight.
- Trip-free manual reset (manual reset models) 3/4 contacts cannot be overridden by continued depression of the reset button.

Model No.	Switch Action	Application	Setting PSIG(kPa)		Robertshaw
			Opens	Closes	
P100AC-1C	Open on Fall	Low Cutout	5 (34)	20 (138)	—
P100AP-201C	Open on Fall	Low Cutout	10 (69)	32 (221)	3100-050
P100AP-2C	Open on Fall	Low Cutout	35 (241)	60 (414)	3100-004
P100AP-3C	Open on Fall	Fan Cycling	150 (1034)	225 (1551)	—
P100AP-4C	Open on Fall	Fan Cycling	170 (1172)	250 (1724)	—
P100AP-332C	Open on Fall	Fan Cycling	300 (2068)	400 (2758)	—
P100CC-9C	Open on Rise	High Cutout	275 (1896)	175 (1207)	—
P100CP-1C	Open on Rise	High Cutout	400 (2758)	300 (2068)	3100-151
P100CP-2C	Open on Rise	High Cutout	425 (2930)	325 (2241)	3100-100
P100CP-85C	Open on Rise	High Cutout	665 (4585)	565 (3896)	—
P100DA-1C	Open on Rise	High Limit	410 (2827)	Lockout Manual Reset	3100-103
P100DA-2C	Open on Rise	High Limit	475 (3275)	Lockout Manual Reset	3100-106
P100DA-81C	Open on Rise	High Limit	630 (4344)	Lockout Manual Reset	—
P100DA-86C	Open on Rise	High Limit	575 (3964)	Lockout Manual Reset	—
P100DC-3C*	Open on Rise	High Limit	375 (2586)	Lockout Manual Reset	—

\* Includes conduit box with opening for 1/2 inch conduit connector.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	75255	P100AC-1C OPEN 5/CLOSES 20 LOW CUTOUT PRESSURE SWITCH	—	—
1	EA	75488	P100AP-201C OPEN 10/CL 32 LOW CUTOUT PRESSURE CONTROL	—	—
1	EA	75800	P100AP-2C OPEN/35 CL/60 LOW CUTOUT PRESSURE CONTROL	—	—
1	EA	75801	P100AP-3C OPEN 150/CL 225 FAN CYCLE PRESSURE SWITCH	—	—
1	EA	75802	P100AP-4C OPEN 170/CL 250 FAN CYCLE PRESSURE SWITCH	—	—
1	EA	75234	P100AP-332C R410A NON ADJUSTABLE ON/OFF PRESSURE SWITCH	—	—
1	EA	75257	P100CC-9C OPEN 275/CLOSE 175 HIGH CUTOUT PRESSURE SWITCH	—	—
1	EA	75803	P100CP-1C OPEN 400/CL 300 AUTO RESET PRESSURE CONTROL	—	—
1	EA	75804	P100CP-2C OPEN 425/CL 325 AUTO RESET PRESSURE CONTROL	—	—
1	EA	75312	P100CP-85C OPENS 665/CLOSES 565 HIGH CUTOUT PRESSURE SWITCH	—	—
1	EA	75448	P100DA-1C 410# OPENS ON RISE MANUAL RESET PRESSURE CONTROL	—	—
1	EA	75449	P100DA-2C 475# OPENS ON RISE MANUAL RESET PRESSURE CONTROL	—	—
1	EA	75313	P100DA-81C OPENS 630 LOCKOUT MANUAL RESET PRESSURE SWITCH	—	—
1	EA	75314	P100DA-86C OPENS 575 LOCKOUT MANUAL RESET PRESSURE SWITCH	—	—
1	EA	75254	P100DC-3C OPEN 375 MANUAL RESET HIGH LIMIT PRESSURE SWITCH	—	—



## Fixed Setting Pressure Control

- Small size allows direct mounting on tubing
- Tamper proof construction
- U.L. recognized safety control



Open Pressure	Reset Pressure	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
400	280	1	EA	94468	43330/33322 FIXED SETTING HIGH PRESSURE CUT-OUTS, AUTO RESET	—
25	65	1	EA	94469	43347 /33336 FIXED SETTING LOW PRESSURE CONTROL, AUTO RESET	—

## **RANCO** Low Pressure Controls

- NEMA 1 enclosure with non-conductive cover.
- Front-located captive cover screw.
- Super Cap® capillary protection system.
- Universal mounting and compact design.
- Laser-welded bellows for extended life.

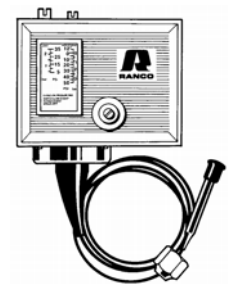


### Auto Reset

Switch Action	Pressure Range	Connection	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
SPST Opens on Low	12"-50 Lb.	36" Cap. Flare Nut	1	EA	93452	O10-1402 LOW PRESS CONTROL	—
SPST Opens on Low	10"-100 Lb.	36" Cap.1/4" Flare Nut	1	EA	93453	O10-1483 LOW PRESS CONTROL	—
SPDT Opens High or Low	10"-100 Lb.	36" Cap. Flare Nut	1	EA	93455	O16-527 LOW PRESS CONTROL	—
SPDT Open or Close on Rise	10"-100 Lb.	1/4" Male Angle	1	EA	93456	O16-107 LOW PRESS CONTROL	—

## **RANCO** High Pressure Controls

- NEMA 1 enclosure with non-conductive cover.
- Front-located captive cover screw.
- Super Cap® capillary protection system.
- Universal mounting and compact design.
- Laser-welded bellows for extended life.



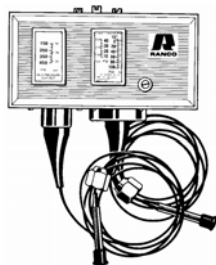
### Auto Reset

Switch Action	Pressure Range	Connection	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
SPST Close on Rise	100-400 Lb.	36" Cap. Flare Nut	1	EA	93458	O10-2054 HI PRESS CONTROL	—
SPST Close on Rise	100-400 Lb.	1/4 " Male Angle	1	EA	93467	O10-1894 HI PRESSURE CONTROL	—
SPST Open on Rise	150-450 Lb.	36" Cap. 1/4" Flare Nut	1	EA	93470	O11-1711 HI PRESSURE CONTROL	—
DPST Close on Rise	100-400 Lb.	36" Cap. 1/4" Flare Nut	1	EA	93503	O20-7006 HI PRESS CONTROL	—
SPDT Open or Close on Rise	100-400 Lb.	36" Cap. 1/4 Flare Nut	1	EA	93474	O16-108 HI PRESS CONTROL	—

### Manual Reset

SPDT Open or Close on Rise	150-450 Lb.	48" Cap. 1/4" Flare Nut	1	EA	93476	O16-200 HI PRESSURE CONTROL	—
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## **RANCO** Dual Pressure Controls



- Exclusive "convertible" reset for manual or automatic high pressure reset on some models.
- NEMA 1 enclosure with non-conductive cover.
- Front-located captive cover screw.
- Super Cap® capillary protection system.
- Universal mounting and compact design.
- Color coded flare nuts.

Model No.	Switch Action	Pressure Range	Connection
O12-1549	SPDT Low Side Close on Rise; High Side Open on Rise	Low 10"-100 Lb. High 150-450 Lb.	36" Cap. with 1/4: Flare Nut
O12-4834	SPDT Low Side Close on Rise; High Side Lock Open on Rise	Low 10"-100 Lb. High 150-450 Lb.	48" Cap. with 1/4: Flare Nut

### Auto Reset

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	93480	O12-1549 DUAL PRESSURE CONTROL	—

### Manual Reset (High Only)

1	EA	93482	O12-4834 DUAL PRESSURE CONTROL	—
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## ARANCO P30 Lube Oil Pressure Cutout Control



These lube oil protection controls guard pressure-lubricated refrigeration compressors against major damage due to loss of oil pressure. If the oil pressure does not recover within the set period, the control circuit is opened, stopping the compressor.

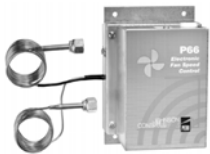
NOTE: The range is the difference between the crankcase pressure and the oil pump pressure that will energize the time delay switch and lead to shut down.

- Alarm circuit is standard
- Ambient temperature compensated
- Super Cap® capillary protection system
- Field-replaceable time delay module
- Manual reset
- Suitable for R-12, R-22, and R-502 applications
- 120 or 240 VAC

Pressure Range PSID	Time Delay (Seconds)	Connection	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
9 Fixed	120	3/8" Cap. w/Flare Nut	1	EA	93540	P30-5826 OIL PRESSURE SFTY	—



## P66 Electronic Fan Speed Control



The P66 is a pressure actuated electronic motor speed controller. This control can be used with single phase permanent split capacitor and shaded pole motors which are approved by the motor and equipment manufacturer for speed control applications. By directly sensing pressure, this device electronically varies the speed of a fan motor.

Controlling head pressure in the condensing section of a refrigeration system is a common application. Typical applications include computer room air conditioning, commercial air conditioning, and commercial refrigeration.

P66 is a single phase control that can only be used with single phase motors. When using this control on a 3-phase system, the 24 volt control circuit and the line voltage must be on the same phase.

- Low Pressure Range:** 80 to 200 psig.
- Effective Throttling Range (ETR):** 30 psi
- High Pressure Range:** 140 to 350 psig
- Effective Throttling Range (ETR):** 60 psi
- Maximum Over Pressure:** 450 psig
- Control Voltage:** 24 VAC, 1 VA.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75374	P66AAB-1C FAN SPEED CTL	—



## V46 Pressure Actuated Water Regulating Valves

### Commercial Type for Non-corrosive Refrigerants



The V46 is a pressure actuated modulating valve that is suitable for use either on closed or open systems. Direct acting valves open on pressure increase.

This type of valve is primarily used to regulate the flow of water or glycol to a water cooled condenser on a refrigeration system (ice machines, computer room air conditioning units, ice cream machines, and refrigeration cases).

Reverse acting valves open on pressure decrease and are generally used for bypass or heat pump applications.

- **Max. Water Supply Press.:** 150 PSIG
- **Max. Bellows Pressure:**  
R-12: 230 PSIG  
R-22: 320 PSIG
- **Max. Water Temp.:** 170° F
- **Valve Body:** 3/8" to 3/4" cast brass, 1" and larger cast iron with a special finish.

Model No.	Pipe Size	Inlet and Outlet	Pressure Element Style	Service	Opening Point Adj. Range (PSIG)
V46AA-1	3/8" NPT	Threaded	30" Capillary, 1/4" Flare Nut (45)	All Range	70 to 260
V46AB-1	1/2" NPT	Threaded	30" Capillary, 1/4" Flare Nut (45)	All Range	70 to 260
V46AC-1	3/4" NPT	Threaded	30" Capillary, 1/4" Flare Nut (45)	All Range	70 to 260
V46AD-1	1" NPT	Threaded	30" Capillary, 1/4" Flare Nut (45)	All Range	70 to 260
V46AE-1	1-1/4" NPT	Threaded	30" Capillary, 1/4" Flare Nut (45)	All Range	70 to 260
V46AR-1	1-1/2"	4 Hole ASME Flange	30" Capillary, 1/4" Flare Nut (45)	All Range	70 to 260
V46AS-2	2"	4 Hole ASME Flange	1/4" Male Flare Fitting (5)	R-22, R-502	160 to 260
V46AC-26C	3/4" NPT	Threaded	1/4" Male Flare Fitting (5)	All Range	70 to 260

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	75386	V46AA-1C 3/8IN WATER REG VALVE	—	—
1	EA	75387	V46AB-1C 1/2IN WATER REG VALVE	—	—
1	EA	75388	V46AC-1C 3/4IN WATER REG VALVE	—	—
1	EA	75389	V46AD-1C 1IN WATER REG VALVE	—	—
1	EA	75390	V46AR-1C 1 1/2IN WATER REG VALVE	—	—
1	EA	75397	V46AE-1C 1 1/4IN WATER REG VALVE	—	—
1	EA	75398	V46AS-2C 2IN WATER REG VALVE	—	—
1	EA	75484	V46AC-26C 3/4IN WATER REG VALVE	—	—



## A11 Low Temperature Cutout Control



The A11 Series are low temperature cutout controls for coils and/or liquid sensing pipes, which incorporate a 20 foot long, vapor charged, sensing element. The A11 reacts to the coldest 18 inch section of the controls sensing element. The A11 is suitable for monitoring the face temperature of hot water coils.

- Snap-acting contacts.
- External temperature scale.
- Easy set point adjustment.
- Adjust range with screwdriver slot.

Model No.	Switch Action	Range ° F	Diff. ° F	Bulb & Capillary	Elec. Rating 120 VAC
A11A-1C	SPST Open Low	35 to 45	Manual Reset	20' of 1/8" O.D. Tubing 4' Cap.	16 Amp
A11B-1C	SPST Open Low	35 to 45	8 (Fixed)	20' of 1/8" O.D. Tubing 4' Cap	16 Amp

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75458	A11A-1C SPST LOW LIMIT CUTOUT	—
1	EA	75459	A11B-1C SPST LOW LIMIT CUTOUT	—



## A19 Temperature Control General Purpose Remote Bulb



The A19 Series are single stage temperature controls that incorporate liquid filled sensing elements. They are suitable for temperature control in heating, ventilating, and refrigeration applications. Constant differential throughout the entire range. Compact enclosure. Fixed or adjustable differential available. Variety of sensing elements styles. Unaffected by cross ambient conditions.

**A19ABC-24** replaces both A19ABA-1 and A19ABA-4.

**A19BBC-2** replaces White-Rodgers 201-16, 201-8, 2A37-1; Ranco 010-1418, 010-1802, C30-C1101; and Honeywell T631A, T696A, T6054A1005.

Model No.	Switch Action	Range ° F	Diff. ° F	Bulb & Capillary	Bulb Well No. (Not Supplied)	Range Adjuster	Elec. Rating 120 VAC
A19ABC-4C	SPDT	50 to 130	3.5 to 14	3/8" x 5", 8' Cap. Style	WEL14A603R	Knob	16 Amp
A19ABC-24C	SPDT	-30 to 100	3 to 12	3/8" x 4", 8' Cap. Style	WEL14A602R	Convertible	16 Amp
A19AAD-5C	SPST	30 to 50	2.5	3/8" x 2-5/8" 6' Cap. Style	WEL16A601R	Screwdriver Slot	6 Amp
A19AAF-12C	SPDT	25 to 225	3.5	3/8" x 3", 10' Cap. Style	WEL14A602A	Screwdriver Slot	6 Amp
A19BBC-2C	SPDT	-30 to 100	3 to 12	1-3/8" x 2-1/4", Coiled		Convertible	16 Amp

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	75365	A19AAD-5C SPST 30-50 DF CAP STYLE TEMP CONTROL	—	—
1	EA	75366	A19BBC-2C SPDT-30/+100F COIL STYLE BULB TEMP CTL	—	—
1	EA	75377	A19AAF-12C SPDT 25-225 DF CAP STYLE TEMP CONTROL	—	—
1	EA	75378	A19ABC-24C SPDT -30/+100F CAP STYLE TEMP CONTROL	—	—
1	EA	75467	A19ABC-4C SPDT 50-130 DF CAP STYLE TEMP CONTROL	—	—



## A70 Series Four-Wire, Two-Circuit Temperature Control



The A70 Series temperature control incorporates a vapor-charged sensing element. The A70H has a 4-wire, 2-circuit contact block that contains two isolated sets of contacts. The contacts are designed so that when the main contact opens, the auxiliary contact closes.

Pole Number	Line-M2 (Main)				Line-M1 (Auxiliary)			
	120	208	240	277	120	208	240	277
Motor Ratings VAC	120	208	240	277	120	208	240	277
AC Full Load Amp	16.0	9.2	8.0	—	6.0	3.3	3.0	—
AC Locked Rotor Amp	96.0	55.2	48.0	—	36.0	19.8	18.0	—
AC Non-Inductive Amp	16.0	9.2	8.0	7.2	6.0	6.0	6.0	6.0
Pilot duty-Both Poles	125 VA, 24 to 600 VAC							
	57.5 VA, 120 to 300 VDC							

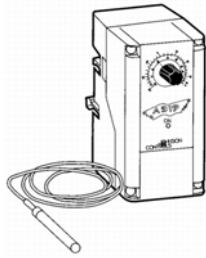
Model Number	Switch Action		Range ° F	Diff ° F	Bulb and Capillary	Max. Bulb Temp ° F	Range Adjuster
	Main Contacts	Auxiliary Contacts					
A70HA-1C*	Open Low	Close Low	15 to 55	Manual Reset	20 ft. of 1/8 in. O.D. Tubing	400	Screwdriver slot

\* The low cutout stop is set and sealed at 35° F. The control responds only to the lowest temperature along any one ft. of the entire 20 ft. element or bellows cup.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75482	A70HA-1C 15 TO 55 DF TWO CIRCUIT TEMP CONTROL	—



## A319 Electronic Temperature Control



The A319 Series is a line voltage single-stage electronic temperature control with single-pole, double-throw relay output and LED indication. The A319 is designed with heating or cooling modes of operation, adjustable differential, and an interchangeable temperature sensor.

**Typical applications include:**

- Frozen/refrigerated food cases
- Compressor lockout
- Condenser fan cycling
- Boiler control
- Pump control (cooling towers)
- Space and return-air temperature control

Model No.	Set Point Range °F	Diff. Range °F	Operating Ambient Temp. °F	Ambient Humidity	120 V N.O.
A319ABC-24-01	100 to 200	1 to 30	-30 to 140	0 to 95% RH	16 Amps

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	75396	A319ABC-24-01 -20/100F TEMPERATURE TEMP CONTROL W/SENSOR	—	—



## A419 Single Stage Temperature Control with Heating/Cooling Display



The A419 Series control is a line voltage, single-stage, electronic temperature control with a Single-Pole, Double-Throw (SPDT) output relay. It has heating or cooling modes of operation with adjustable setpoint and differential.

The A419 can be used to control a wide variety of single-stage refrigeration or HVAC equipment.

**Typical applications include:**

- Reach-in coolers
- Supermarket display cases
- Boiler control
- Compressor lockout
- Condensor fan cycling
- Pump control
- Space and return air temperature

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	EA	75360	A419ABC-1C -30/212F ELECTRONIC -30/212F	—	—



## Cold Controls



Mars Super-Fit™ constant differential refrigeration cold controls always maintain the same difference between on and off temperature over the entire dial range. The knob selects the operating temperature. Includes brackets, hardware, and instructions.

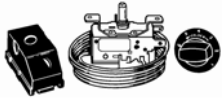
**Calibration Data**

Model No.	Application	Normal		Warm On	Cold Off	Cap. Length (In.)
		Off	On			
26272	Beverage Cooler	41.5° F	47.5° F	65.5° F	24.5° F	78
26238	Refrigeration	30° F	37° F	49.8° F	14.5° F	76

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	93926	26238 COLD CONTROL	—
1	EA	93953	26272 COLD CONTROL	—



## RANCO A12 Temperature Controls

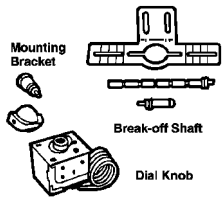


The Ranco A-12 Controls provide a constant Cut-In feature. The constant Cut-In design is generally used to provide an Off-Cycle defrost function. Each time the control cycles off, the control contacts will remain "open" until the evaporator is cleared of any frost that may have accumulated from the previous "On" Cycle.

- One-for-one replacements for vending machines, automatic beverage dispensers, and reach-in coolers.
- Reliable off-cycle defrost.
- SPST switch with OFF position.

Dial Range (Degrees F)	Cut-in Constant (Degrees F)	Capillary Length (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
11.5 to 26	37	84	1	EA	93513	A12-700 TEMP CONTROL	—
15 to 31	41	84	1	EA	93514	A12-701 TEMP CONTROL	—
19 to 29	38	72	1	EA	93515	A12-1560 TEMP CONTROL	—

## RANCO Adaptable Air Conditioning Control Kits



Adaptable control to replace OEM controls that govern the On-Off compressor function. Includes break-off shaft, dial knob, and mounting bracket. All feature SPST switches.

Dial Range (Degrees F)	Differential (Degrees F)	Capillary Length (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
45 to 81	5	27	1	EA	93522	A22-2451 A/C CONTROL	—
58 to 86	5	18	1	EA	93526	A30-X450 TEMP CONTROL	—
53 to 85	5	39	1	EA	93528	A30-X452 TEMP CONTROL	—

## RANCO General Range Temperature Controls



Applications include self-contained refrigerators, freezers, coolers, walk-in units and refrigeration display cases.

- Maximum adjustment accuracy with 7 revolution range adjustment screws.
- NEMA 1 enclosure with non-conductive cover.
- Front-located captive cover screw.
- Universal mounting and compact design.
- Laser-welded bellows for extended life.
- Constant cut-in setting.

Switch	Dial Range (Degrees F)	Adjustable Differential (Degrees F)	Capillary Length (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
SPST	-15 to 40	3 to 20	72	1	EA	93493	O10-1408 TEMP CTL	—
SPST	0 to 55	3 to 20	72	1	EA	93494	O10-1409 TEMP CTL	—
SPST	25 to 75	3 to 20	72	1	EA	93495	O10-1410 TEMP CTL	—
SPST	0 to 55	3 to 20	72	1	EA	93499	O10-1418 TEMP CTL	—
SPST	0 to 55	7 to 55	72	1	EA	93500	O10-1473 TEMP CTL	—
SPST	-20 to 70	3.5 to 35	96	1	EA	93504	O60-109 TEMP CTL	—

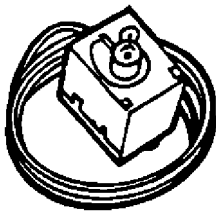
## **RANCO** ETC Commercial Temperature Controls



- Wide temperature range (-30° F to 220° F).
- Adjustable differential range (1° F to 30° F).
- LCD digital display of sensor temperature, control settings, relay status, and onboard diagnostics.
- Selectable heat and cool modes.
- Output relay rated at one horsepower.
- One and two stage models available.

Voltage	No. of Stages	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
120/208/240	1	1	EA	93550	ETC-111000-000 TEMP CTL	—
24	2	1	EA	93552	ETC-212000-000 TEMP CTL	—

## **RANCO** A30 Series Refrigeration Controls



### Refrigeration/Freezer Controls

For self-contained refrigerators, freezers, coolers, walk-in units, and refrigeration. Controls feature SPST switches.

### Direct Replacement Water Cooler Controls

Water cooler controls feature small compact design, computer calibration, and laser-welded bellows for reliability.

### Adaptable Replacement Cycling Controls For Room Air Conditioners

Adaptable control to replace OEM controls which govern the on/off compressor function. Includes break-off shaft, dial knob, and mounting bracket.

### Refrigeration/Freezer Controls

Dial Range (Degrees F)	Differential (Degrees F)	Capillary Length (In.)	Knob Assembly	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
35 to 46	8 Fixed	48	Dial	1	EA	93517	A30-2209 TEMP CONTROL	—
32 to 61	6 Fixed	84	Adaptable	1	EA	93532	A30-261 TEMP CTL	—
3 to 43	12 Fixed	84	Adaptable	1	EA	93533	A30-262 TEMP CONTROL	—
30 to 42	8 Fixed	48	Dial	1	EA	93534	A30-2210 TEMP CONTROL	—
-24 to +20.5	8.5 Fixed	84	Adaptable	1	EA	93544	A30-301 TEMP CONTROL	—
-4 to 38	13 Fixed	42	Adaptable	1	EA	93564	A30-180 TEMP CONTROL	—
-4 to +41	13 Fixed	84	Adaptable	1	EA	93565	A30-181 TEMP CONTROL	—
-6 to +44	17 Fixed	42	Adaptable	1	EA	93566	A30-182 TEMP CONTROL	—

### Direct Replacement Water Cooler Controls

Dial Range (Degrees F)	Differential (Degrees F)	Capillary Length (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
37 to 61	7 Fixed	48	1	EA	93518	K-3001 TEMP CONTROL	—

## **RANCO** 3030-505 Constant Differential Control



3030-505 control is suitable for most manual and automatic and defrost refrigerators. Features SPST switch.

Dial Range (Degrees F)	Differential (Degrees F)	Capillary Length (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
18 to 47	6 Fixed	24	1	EA	93521	3030-505 COLD CONTROL	—



## Defrost Timers



- DTMV: Multi-voltage field adjustable for 120 or 208/240 VAC.
- DTAV: Auto-voltage, 120VAC-240VAC
- Replace over 40 models on the market.
- 40 Amp, 2 HP rated.
- Defrost cycles are programmed independently.
- Defrost times programmable on quarter hour with captive trippers.
- Mounts on existing enclosures.
- NEMA 3R outdoor enclosure.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77644	DTMV40 40A 24 HR 120/240 V DEFROST TIMER	—
1	EA	77645	DTMV40-M 40A 24 HR 120/240 V DEFROST TIMER MECHANISM ONLY	—
1	EA	77646	DTMV40-B 40A 24 HR 120/240 V DEFROST TIMER BRACKET MOUNT	—
6	EA	77654	DTAV40 40A 24 HR AUTO VOLT DEFROST TIMER	—
1	EA	77655	DTAV40-M 40A 24 HR AUTO VOLT DEFROST TIMER MECHANISM ONLY	—



## Interval Countdown Time Switch



- Timing ranges from 5 minutes to 12 hours.
- Heavy duty 20A @ 125 VAC SPST (N.C. & N.O.), SPST 20A, 2 HP switch.
- Fits single and multigang boxes.
- Normally open and closed standard connection (except 5 min.)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77651	FD30MC 30 - MIN TWIST TIMER DEC-WHITE (NC&NO)	—



## 7008 Paragon 7-Day Timer Multi-Purpose 7-Day Calendar Dial



Allows automatic On-Off operation at different hours each day if desired. Settings can be made a week in advance and changed if necessary. Features include 120V, 60C switching, 4 pole, 2 NO, and 2 NC.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77048	7008-00 PARAGON 7-DAY TIMER	—



## ERC-2 Electronic Refrigeration Control



The ERC-2 Electronic Refrigeration Control is a microprocessor-based controller designed to manage all of the temperature and defrost functions in a typical piece of commercial refrigeration equipment. By integrating these functions into one device, the ERC-2 can replace up to five different controls including the case thermostat, defrost timer, defrost termination switch, fan delay switch, and thermometer.

Every ERC-2 is equipped with a digital display module that provides a readout of temperature, time, equipment status, and control diagnostics. Using the display along with its four button keypad, the control can be programmed to customize it for just about any application.

### Microprocessor Based Electronics

- Better accuracy and repeatability than electromechanical controls.
- Non-volatile memory retains control settings when power is off.

### Digital Display with Keypad

- Large four digit readout of sensor temperatures, time, control settings, alarms, and diagnostics.
- LED indicators for compressor run and defrost.

### Remote Temperature Sensing

- Sensors can be located up to 100 feet from the control.
- Stainless steel capsule probes with NSF approved materials.

### Real Time Clock with Carryover Capability

- Allows defrost cycles to be timed for non-peak usage hours.
- Capacitor carryover maintains accurate time during power outages.

### Multiple Defrost Methods

- Choice of: electric heat, hot gas, or off cycle defrost.
- Choice of: time or temperature defrost initiation.
- Choice of: time or temperature defrost termination.

### High and Low Temperature Alarms

- Relay output provided for external alarm light or buzzer.
- Selectable alarm temperature and time delay settings.

### Remote Mounted Display Option

- Allows display module to be used as a thermometer
- Hinged cover hides keypad and prevents tampering.
- More accessible for servicing equipment.

### Output Relay Ratings

Compressor: SPST NC	120 VAC	208 VAC	240 VAC
Horsepower Rating (HP)	1	1.5	2
FLA/LRA	16/96	12/72	12/72
Pilot Duty (VA)	470	470	470

Defrost: SPST NO	120 VAC	208 VAC	240 VAC
Resistive Amps	16	16	16
Horsepower Rating (HP)	1/2	3/4	1
Pilot Duty (VA)	470	470	470

Evaporator Fan: SPST NC	120 VAC	208 VAC	240 VAC
Resistive Amps	16	16	16
Horsepower Rating (HP)	1/2	3/4	1
FLA/LRA	10/59	8/48	8/48
Pilot Duty (VA)	470	470	470

Alarm: SPST NO	120 VAC	208 VAC	240 VAC
Resistive Amps	5	5	5
Pilot Duty (VA)	240	240	240

### Technical Specifications

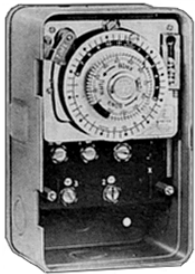
- Input Power: 120/208/240 VAC (+10, -15%), 50/60 Hz
- Temperature Set Point Range: -40° F to 60° F
- Defrost Cycles: 1 to 8 per day or 1 every 48 hours
- Temperature Sensors: NTC Thermistor
- Ambient Operating Conditions: -40° F to 122° F

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	93567	ERC2-222111 ELEC TEMP/DEFROST WITH REMOTE DISPLAY	—
1	EA	93568	ERC2-212111-370 ELEC DEFROST CONTROL	—



## 8045 Series Defrost Controls

### Time Initiated, Time Terminated



For electric heat, hot gas, or compressor shutdown defrosting. Frequency of defrost initiation is adjustable from one to six cycles per day. Minimum of 4 hours between successive operations. Duration of defrost cycle adjustable from four to 110 minutes in 2 minute increments. Accuracy of defrost duration +/- 2 minutes. Heavy duty synchronous industrial type motor.

Model No.	Volts 60 Hz	Switch Arrangement Contacts		
		2-4	1-3	3-N
8045-00	120	Closed	Open	None
8045-20	208-240	Closed	Open	None

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77043	8045-00 120V DEFROST TIMER TIME INITIATED TIME TERM	—
1	EA	77044	8045-20 208/240V DEF TIMER ELEC HT,HOT GAS OR COMPRESSOR	—



## 8140 Series Defrost Controls

### Time Initiated, Temperature or Pressure Terminated



The 8140 Series cut-in is determined by external temperature or pressure sensor. Adjustable back-up defrost termination of 4 to 110 minutes in 2 minute increments is available. A choice of 3 contact arrangements for electric head, compressor shutdown, or hot gas defrost is available.

Model No.	Volts/ 60 Hz.	Normal Position of Contacts During Refrigeration Cycle		
		3-N	1-3	2-4
8141-00	120 VAC	Closed	Open	Closed
8141-20	208-240 VAC	Closed	Open	Closed
8145-00	120 VAC	None	Open	Closed
8145-20	208-240 VAC	None	Open	Closed

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77041	8141-00 120V ELEC HT DEFROSTING PARAGON TIMER	—
1	EA	77042	8141-20 208-240V ELEC HT DEFROSTING PARAGON TIMER	—
1	EA	77045	8145-20 208/240V PARAGON DEFROST TIMER	—
1	EA	77046	8145-00 120V PARAGON DEFROST TIMER	—



## 9045 Universal Defrost Control

### Time Initiated, Time Terminated, Multi-voltage



The 9045 Universal Defrost Timer is the only multi-voltage defrost timer engineered to refrigeration standards. This new product is certified to UL873 standards for temperature-indicating and regulating equipment, as refrigeration controllers; switches rated to 30,000 cycles.

- Real time clock
  - 100 hours of power loss protection for both time and defrost schedule
  - Withstands the most rigorous refrigeration applications
  - Wires directly to 120 VAC, 208 VAC or 240 VAC power sources without jumpers or switches
  - Easy programming
  - Display shows defrost start time and duration
- Input power: 120/208-240 VAC 60 Hz

#### 9045 Terminal Data

Terminal	A	B	C	D	E	F	G
Relay Contact	SPST #1 NC Contact	SPST #1 COMM Contact	L1 Power in to timer	SPST #2 NO Contact	SPST #2 COMM Contact	L2/N Power in to timer	No Connection
Relay Rating	30A resistive @ 120 VAC to 240 VAC 1 HP @ 120 VAC 2 HP @ 208 VAC to 240 VAC	—	—	—	30A resistive @ 120 VAC to 240 VAC 1 HP @ 120 VAC 2 HP @ 208 VAC to 240 VAC	—	—
Device Connections	Compressor (Typical)	—	—	—	Defrost Device (Typical)	—	—

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77054	9045-00 SERIES UNIV DIGITAL DEFROST TIMER WITH ENCLOSURE	—



## 9145 Universal Defrost Control

### Time Initiated, Temperature/Pressure Terminated, Multi-voltage



The 9145 Universal Defrost Timer is the only multi-voltage defrost timer engineered to refrigeration standards. This new product is certified to UL873 standards for temperature-indicating and regulating equipment, as refrigeration controllers; switches rated to 30,000 cycles.

- Real time clock
  - 100 hours of power loss protection for both time and defrost schedule
  - Withstands the most rigorous refrigeration applications
  - Wires directly to 120 VAC, 208 VAC or 240 VAC power sources without jumpers or switches
  - Easy programming
  - Display shows defrost start time and duration
- Input power: 120/208-240 VAC 60 Hz

#### 9145 Terminal Data

Terminal	A	B	C	D	E	F	G
Relay Contact	SPDT NC Contact	SPDT COMM Contact	SPDT COMM Contact	SPST NO Contact	SPST COMM Contact	L2/N Power in to timer	Defrost Termination Device Input L2/N side
Relay Rating	15A resistive @ 120 VAC to 240 VAC 1/4HP @ 120 VAC 1/2HP @ 208 VAC to 240 VAC	30A resistive @ 120 VAC to 240 VAC 1 HP @ 120 VAC 2 HP @ 208 VAC to 240 VAC	—	—	30A resistive @ 120 VAC to 240 VAC 1 HP @ 120 VAC 2 HP @ 208 VAC to 240 VAC	—	—
Device Connections	Fan (Typical) Compressor (Optional)	Defrost Device (Typical)	LI Power to timer and to Defrost Termination Device	—	Compressor (Typical) Fan (Optional)	—	Defrost Termination Switch

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77053	9145-00 SERIES UNIV DIGITAL DEFROST TIMER WITH ENCLOSURE	—
1	EA	77055	9145-00M SERIES UNIV DIGITAL DEFROST TIMER MECHANISM ONLY	—



## GRASSLIN GM40 Multi-Voltage General Purpose Time Switch



- Auto voltage selection 120VAC through 277VAC
- 40 amp resistive, 30 amp inductive.
- SPDT and DPDT all in one!
- NEMA 3R outdoor enclosure.
- No tools required.
- Power and status LED indicators.
- Independently adjustable trippers at 15 minute intervals.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77656	GM40AV AUTO VOLTAGE NEMA 3R ELECTROMECHANICAL TIME SWITCH	—

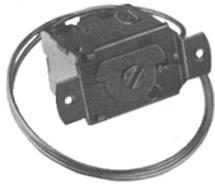


## Paraguard EC9000 Refrigeration System Monitor and Alarm

- Provides continuous monitoring of system efficiency and performance.
- Provides fast, reliable alarming of adverse operation conditions during the Start, Run, Off, and Defrost cycles.
- Easy to install.
- No programming required.
- Easy to understand alarm indicators and fault codes.
- Simple troubleshooting guide helps identify what type and where alarm condition occurred in the system.
- Reduces maintenance/service costs by providing early detection of intermittent electrical and mechanical problems.
- Application flexibility. One model for 120-575 Vac 50/60 Hz, all common sized refrigeration motors, single or three phase.
- Can be applied to conventional and parallel refrigeration systems.
- Compatible with existing security alarm monitors, building control systems and refrigeration control systems.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77034	EC9000 PARAGUARD REFR SYS MONITOR & ALARM	—

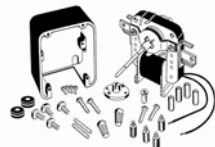
## RANCO Ice Bin Level Control



Direct replacement control for ice machine applications. Provides narrow differential for accurate control of bin level. Control features a SPST switch.

Dial Range (Degrees F)	Differential (Degrees F)	Capillary Length (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
35 to 51	6 Fixed	48	1	EA	93516	A22-1129 ICE BIN LEVEL CONTROL	—

## Supco SM-999 Universal Motor Kit



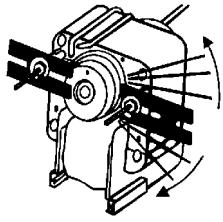
- Reversible rotation.
- Prefastened multi-fit break-off mounting bracket.
- Easy to use, fewer parts to assemble than competitive motors.
- "Break-off" shaft.
- Volts: 120 Volt, 3000 RPM.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94470	SM-999 UNIV MOTOR KIT	—





## Motor Kits



### H-Bracket Mounting System

This patented mounting system comes with all of these Acme motor kits. Acme H-Brackets make it possible to replace hundreds of standard units as well as 3.3", 3.5", and 4" round motors.

### Reversible Evaporator Fan Motor Kits

Model No.	HP	Motor Type (In.)	RPM	Volts	Amps	Fan Blades (In.)
Acme 700™	1/100	5/8 Reversible	3000	115	35	4 and 5-1/2
Acme 702™	1/100	5/8 Reversible	3000	230	35	4 and 5-1/2
Acme 710™	1/100	5/8 Reversible	3000	115	.45	5-1/2
Acme 750™	1/45	1-1/8 Reversible Stack	3000	115	885	Shaft adapter to fit 3/16, 1/4, and 5/16 bores and hubless blades
Acme 7502™	1/45	1-1/8 Reversible Stack	3000	115/230	885/445	Shaft adapter to fit 3/16, 1/4, and 5/16 bores and hubless blades

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	95870	700 115 VOLT REVERS REPL KIT	—
6	EA	95871	702 230 VOLT REVERS REPL KIT	—
1	EA	95872	710 115 VOLT REVERS REPL KIT	—
1	EA	95873	750 115 VOLT-1/45 HORSEPOWER REVERS REPL KIT	—
6	EA	95874	7502 115/230 VOLT-1/45 HP REVERS REPL KIT-DUAL VOLT	—



## Evaporator/Condenser Watt Motors



- Output 4-12 watts
- Speed regulated within +/- 6%
- 51fr unit bearing motor; cast aluminum frame
- Universal 5 hole mount
- ~66% peak efficiency
- 1 discrete speed
- 1/4"–20 threaded shaft
- Side pedestal mounting feet (2 set standard)
- 3.3"

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	99643	00650 4-12 WATTS 115VOLT CW EVAP/CONDENSER-MORRILL MOTOR	—
1	EA	99644	00651 4-12 WATTS 230VOLT CW EVAP/CONDENSER-MORRILL MOTOR	—



## Universal PSC Motor



- Replaces 12 motor ratings
- Reversible
- Dual voltage
- High efficiency
- 3.3"

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	99651	D1127 1/12 THRU 1/20 MULTI-HP FASCO MOTOR	—

 **Evaporator Nominal Motors**



5100/5101/5200/5201



8040

- 1550 RPM
- Universal "drop-in" replacement for walk-in evaporator
- Totally enclosed, non-vented
- Shaft water slinger
- Standard thru-bolt configurations
- All angle mount
- Power cord with Lyall Plug
- Automatic torque variation, constant speed
- Low temp (-20° F) lubrication system
- 50/60 Hz
- 1 discrete speed
- Ball bearing thermally protected
- 3.3"

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	99647	05101 1/15 NOM HP 115VOLT CCW EVAPORATOR-MORRILL MOTOR	—
1	EA	99648	05201 1/15 NOM HP 208-230V CCW EVAPORATOR-MORRILL MOTOR	—
1	EA	99649	05100 1/15 NOM HP 115VOLT CW EVAPORATOR-MORRILL MOTOR	—
1	EA	99650	05200 1/15 NOM HP 208-230V CW EVAPORATOR-MORRILL MOTOR	—
1	EA	99652	08040 KRACK REFRIG.RETROFIT BRACKET KIT-MORRILL MOTOR	—

 **OEM Direct Replacement Motors**  
**EMERSON** 3.3" Diameter, Shaded Pole and PSC  
 Climate Technologies

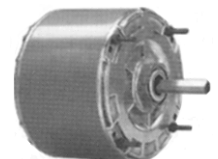


- Two or four 8-32 x 3/4" stud extensions at each end
- Sleeve bearings have all angle thrust system
- Automatic reset thermal overload protection
- 12" leads

Model	HP	RPM	Volts	F.L. Amps
9632	1/20	1550	115	—
9650	1/15	1800	208-230	1.1
9651	1/20	1800	115	1.9
9652	1/20	1800	208-230	.87
9653	1/20	1800	115	1.8
9664	1/12-1/20	1550	115/230	1.3/0.7

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	EA	99720	9632 1/20HP 115V 3.3IN CCW SUPER FIT FAN/BLWR MOTOR	—	—	—
1	EA	99776	9650 1/15 HP 208-230V CCW/CW REFRIG.EMERSON MOTOR(BOHN)	—	—	—
1	EA	99779	9653 1/20 HP 115V CCW REFRIG.EMERSON MOTOR (LARKIN)	—	—	—
1	EA	99778	9656 1/15 HP 208-230V CCW/CW REFRIG.EMERSON MOTOR (LARKIN)	—	—	—
1	EA	99777	9662 1/20 HP 115V CW REFRIG.EMERSON MOTOR(BOHN)	—	—	—
1	EA	99781	9664 1/12-1/20 HP 115/230V CCW/REV.REFRIG.EMERSON MOTOR	—	—	—

**OEM Replacement Motor for Copeland**



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	99760	588 1/3 HP 208/230V OEM REPL MOTOR	—



## Refrigeration OEM Motors and Fan Blades

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96682	950-0500-00 1/6 HP 208/230 VOLT FAN MOTORS	—
1	EA	96690	950-0265-00 1/6 HP 208/230 VOLT FAN MOTORS	—
1	EA	96824	950-0265-01 1/6 HP 460-1 FAN MOTORS	—
1	EA	96688	998-0251-00 1/6 HP 208/230 VOLT FAN MOTORS	—
1	EA	96687	950-0250-00 1/4 HP 208/230 VOLT FAN MOTORS	—
1	EA	96691	950-0266-04 1/4 HP 208/230 VOLT FAN MOTORS	—
1	EA	96680	950-0108-00 1/3 HP 208/230 VOLT FAN MOTORS	—
1	EA	96681	950-0234-00 1/3 HP 208/230 VOLT FAN MOTORS	—
1	EA	96686	950-0248-00 1/2 HP 208/230 VOLT FAN MOTORS	—
1	EA	96683	950-0344-00 50 WATT 208/230 VOLT FAN MOTORS	—
1	EA	96684	950-0344-01 50 WATT 115 VOLT FAN MOTORS	—
1	EA	96689	950-0264-01 50 WATT 208/230 VOLT FAN MOTORS	—
1	EA	96692	998-0550-00 230 VOLT FAN MOTORS	—
1	EA	96693	998-0550-01 460 VOLT FAN MOTORS	—
1	EA	96694	998-0550-04 460 VOLT FAN MOTORS	—

### Fan Blades

1	EA	96699	083-0122-00 8" DIA 1/4" 30 DEG CW 5 BLADE FAN	—
1	EA	96695	083-0019-00 8-3/4" DIA 1/4" 23 DEG CW 3 BLADE FAN BLADE	—
1	EA	96698	083-0118-00 11" DIA 3/8" 30 DEG CW 5 BLADE FAN	—
1	EA	96696	983-0160-00 11-3/8" DIA 3/4" 32 DEG CW 3 BLADE FAN	—
1	EA	96697	083-0103-02 FAN BLADES	—



## Refrigeration Motors and Fan Blades

### Motors

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	98014	25300701S 1/150 HP 115V 3000 RPM CWSE MOTOR	—
1	EA	98015	7071061 1/15HP 230V 1550RPM CCWSE MOTOR	—
1	EA	98016	5036SS 1/15HP 115V 1550RPM CWSE MOTOR	—
1	EA	98017	25309101S 1/15HP 230V 1550RPM CCWSE MOTOR	—
1	EA	98018	5036TS 1/15HP 230V 1550RPM CWSE MOTOR	—
1	EA	98019	25300101S 1/20 115V 1550RPM CWSE MOTOR	—
1	EA	98020	25300201S 1/20HP 230V 1550RPM CWSE MOTOR	—
1	EA	98021	038688900 1/20HP 230V 1550RPM CW MOTOR	—
1	EA	98022	7071208S 1/3HP 230V 1075RPM CCWSE MOTOR	—
1	EA	98023	2537974S 1/4HP 230V 1075RPM CCW MOTOR	—
1	EA	98025	2531194 40MHP 115V 1550RPM CCWSE MOTOR	—
1	EA	98027	5021SS 1/150HP 120V 3000RPM CWSE MOTOR	—
1	EA	98031	25309001S 1/3 HP 230V 1075RPM CCWSE MOTOR	—

### Fan Blades

1	EA	98002	026215300 10IN 40DEG 5/16 CCW FAN BLADE	—
1	EA	98003	5140C 12IN 23DEG CW FAN BLADE	—
1	EA	98004	5110E 12IN 24DEG CCW FAN BLADE	—
1	EA	98005	5101B 5.5IN 24DEG CCW FAN BLADE	—
1	EA	98011	D21194A2 12IN 19DEG CW FAN BLADE	—



## Aluminum Fan Blades for Walk-in Boxes

These 8", 10", and 12" fan blades will replace Bohn, Singer, and Hill.

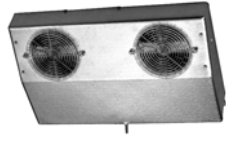


Size	Rotation	Shaft Size	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
8 INCH ALUMINUM	CW	5/16	1	EA	93882	30805 8 INCH ALUMINUM ALUM FAN BLADE CW	—
10 INCH ALUMINUM	CW	5/16	12	EA	93884	31005 10 INCH ALUMINUM ALUM FAN BLADE CW	—
10 INCH ALUMINUM	CCW	5/16	12	EA	93885	31015 10 INCH ALUMINUM ALUM FAN BLADE CCW	—
12 INCH ALUMINUM	CW	5/16	12	EA	93886	31205 12 INCH ALUMINUM ALUM FAN BLADE CW	—



## Model TA Reach-In Unit Evaporators

### Thin Profile Air Defrost Unit Coolers



TA reach-in evaporators are thin units which mount in the top of a refrigerator and make the entire top shelf area usable. The attractive low silhouette makes this unit particularly desirable for display type refrigerators. It can also be used in back bars, under counter cabinets, or wherever space is at a premium. For 35° to 45° F fixtures at 10° to 15° TD applications with 16 hours maximum compressor run time per day. Drain fitting at 45° angle so drain can be run through back or bottom of refrigerator. Room for expansion valve inside so that it's out of sight. UL Listed.

- Textured aluminum cabinet.
- Stainless steel screws.
- Motors are thermally protected and permanently lubricated.
- Compact design.
- Coated coil for optimum protection in corrosive environments.
- Internal junction box for electrical connection.
- UL classified to NSF standards.
- Sweat inlet connection to reduce leaks.

#### Performance and Electrical Data

Model No.	BTUH 10° F T.D.	CFM	Motor Data		Connections (Inches)			Approx. Ship Wt. (Lbs.)
			Quantity	115/1/60 Total FLA	Inlet	Coil Suction	Drain	
10	1000	120	1	0.8	3/8 OD	3/8 ID	1/2 OD	14
13	1300	170	2	1.6	3/8 OD	3/8 ID	1/2 OD	17
17	1700	210	2	1.6	3/8 OD	3/8 ID	1/2 OD	21
23	2300	330	3	2.4	3/8 OD	3/8 ID	1/2 OD	28
30	3000	360	3	2.4	3/8 OD	1/2 ID	1/2 OD	33
43†	4300	540	4	3.2	1/2 OD	5/8 ID	1/2 OD	44
55†	5500	650	5	4.0	1/2 OD	5/8 ID	1/2 OD	53

† Models 43 and 55 use external equalized expansion valve.

Dimensions H x W x D (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2
4-1/2 x 16-1/2 x 13-1/2	1	EA	97802	TAK10A 1000 BTU REACH-IN EVAPORATOR	—	—
4-1/2 x 20-1/2 x 13-1/2	1	EA	97803	TAK13A 1300 BTU REACH-IN EVAPORATOR	—	—
4-1/2 x 24 x 14-1/2	1	EA	97804	TAK17A 1700 BTU REACH-IN EVAPORATOR	—	—
4-1/2 x 31-5/8 x 14-1/2	1	EA	97805	TAK23A 2300 BTU REACH-IN EVAPORATOR	—	—
4-1/2 x 40 x 14-1/2	1	EA	97806	TAK30A 3000 BTU REACH-IN EVAPORATOR	—	—
4-1/2 x 53-3/8 x 14-1/2	1	EA	97807	TAK43A 4300 BTU REACH-IN EVAPORATOR	—	—
6-3/4 x 53-3/8 x 14-1/2	1	EA	97808	TAK55A 5500 BTU REACH-IN EVAPORATOR	—	—



## Model C Reach-In Unit Evaporators

### High Profile Air Defrost Unit Coolers



These unit coolers are ideal for refrigerated reach-ins. It mounts to the top of the refrigerator and discharges cold air against the back wall. With this air flow pattern, the air is not blasted on the product but is diffused along the back wall and then gently drawn across the product as it returns to the unit; thus, uniform temperatures are maintained throughout the refrigerator. In addition, door sweating and refrigeration loss due to door opening is greatly reduced because the air is not discharged against the doors.

Mounting is made easy by means of aluminum hangers that automatically space the unit the correct distance from the back wall. The expansion valve fits inside, out of sight. Model C is available with an optional coated coil (designated as model CK) for corrosion protection. UL Listed.



## Model VA Reach-In Unit Evaporators

### V-Profile Air Defrost Unit Coolers



The Vee-Aire is a deluxe unit designed for use in small reach-ins, back bar, and under counter refrigerators, and many other applications where a small, compact unit is required. The thermal expansion valve mounts inside the unit. The unit can be mounted for the ceiling or off the back wall or end walls.

- Textured aluminum cabinet.
- Stainless steel screws prevent rust streaks.
- Expansion valve mounts inside cabinet.
- Internal junction box for electrical connection.
- Pigtail leads in junction box.
- Motors are thermally protected and permanently lubricated.
- UL classified to NSF standards.
- Coated coil for optimum protection in corrosive environments.
- Sweat inlet connection to reduce leaks.
- UL Listed

#### Performance and Electrical Data

Model No.	BTUH 10° F T.D.	CFM	Motor Data		Connections (Inches)			Approx. Ship Wt. (Lbs.)
			Quantity	115/1/60 Total FLA	Inlet	Coil Suction	Drain	
8	800	130	1	0.8	3/8 OD	3/8 ID	1/2 OD	9
12	1200	265	2	1.6	3/8 OD	3/8 ID	1/2 OD	14
17	1700	245	1	1.0	3/8 OD	3/8 ID	1/2 OD	11

Dimensions H x W x D (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2
6-7/8 x 12-1/4 x 8-1/8	1	EA	97810	VAK08A 800 BTU REACH-IN EVAPORATOR	—	—
8 x 18 x 8-1/8	1	EA	97811	VAK12A 1200 BTU REACH-IN EVAPORATOR	—	—
9-3/4 x 14 x 10-1/2	1	EA	97812	VAK17A 1700 BTU REACH-IN EVAPORATOR	—	—



## Model KMK Reach-In Unit Evaporators

### Standard Mullion Unit Coolers



Standard mullion unit coolers are ideal for use in under-counter reach-in refrigeration. The thin line design allows the unit to be mounted behind a mullion with sufficient clearance for the installation of tray slides. KMK has a unique fan arrangement allowing air to be drawn into the top of the unit, pulling return air from both sides of the mullion. This arrangement allows the coldest air to be in contact with drop-in trays.

The versatile design of these compact mullions is also adaptable for mounting on the back wall or ends of a beverage cooler. The finned coil of KMK is protected by special coating as standard. UL Listed.



## Model RAMK Reach-In Unit Evaporators

### Reverse Air Mullion Unit Coolers



Reverse air mullion unit coolers are ideal for use in under-counter reach-in refrigeration. The thin line design allows the unit to be mounted behind a mullion with sufficient clearance for the installation of tray slides. RAMK or Reverse Air Mullion draws air through the coil at the bottom and discharges the cooled air out the top. This arrangement allows the coldest air to be in contact with drop-in trays.

The versatile design of these compact reverse air mullions is also adaptable for mounting on the back wall or ends of a beverage cooler. The finned coil of RAMK is protected by special coating as standard. UL Listed.



## Model BTO Reach-In Unit Evaporators

### Twin Flow Unit Coolers



This twin flow unit cooler is a compact two-way design with medium velocity airflow. The unit is mounted flush to the ceiling and draws air in through the fan and discharges out both sides. The air pattern reduces air loss when doors are opened and the medium velocity reduces product drying.

Twin flow units are for temperatures of 35° F, and higher. Box temperatures are kept more constant throughout and fresh products last longer. Seven sizes are available with BTUH from 900 to 5,500 at 10° T.D. The BTO is available with an optional coated coil for corrosion protection. UL Listed.



## Model U Reach-In Unit Evaporators

### Dual Air Unit Coolers

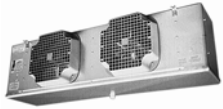


This unit cooler is used wherever a small, compact unit is required, such as salad boxes, back bars and direct draw boxes. It can be mounted on the ceiling or wall. The Model U unit draws air in through the front and discharges it out both sides to insure proper distribution of cool air and thus maintain a uniform box temperature.

U is available with an optional coated coil for corrosion protection (use model designation UK). UL Listed.



## Model RLC Walk-In Evaporators 3,500 to 37,000 BTUH, Low Profile, Air Defrost



### Cabinet

- Extended model and capacity offerings to better match with Chandler condensing units.
- New cabinet design features easy front access to electrical and refrigeration components.
- Panels are isolated for quiet operation.
- Schrader valve on suction header.
- The electric control board is front-facing for easy access.
- Liquid line solenoid wire harness.
- Pre-drilled holes on the back of the unit for room thermostat and controls.
- UL Listed

### Heaters and Coil

- Air, electric, and hot gas defrost.
- Heaters are coil face mount, for better defrost.
- Reduced heater wattages.
- Fixed defrost termination, adjustable for hot gas.

### Guards and Motors

- Motor harness and solenoid harness are at the bottom of the unit for easy access.

### Drain Pan

- Improved drain pan design
- Drain pan heater design allows for more contact with coil and drain pan.

### RLC Air Defrost Models (60 Hz.)

Model No.	Capacity BTUH*	Shaded Pole Moto				EC Motor				No. of fans	Connections (In.)		Approx. Net Wt. (lbs)
		115/1/60		208-230/1/60		115/1/60		208-230/1/60			Coil Inlet	Suction	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts				
RLC 040	4,000	1.8	116	1.0	122	0.9	57	0.5	59	1	1/2 OD	5/8 ID	28
RLC 052	5,200	1.8	116	1.0	122	0.9	57	0.5	59	1	1/2 OD	5/8 ID	31
RLC 065	6,500	1.8	116	1.0	122	0.9	57	0.5	59	1	1/2 OD	7/8 ID	34
RLC 070	7,000	3.6	232	2.0	244	1.8	114	1.0	118	2	1/2 OD	7/8 ID	45
RLC 090	9,000	3.6	232	2.0	244	1.8	114	1.0	118	2	1/2 OD	7/8 ID	48
RLC 104	10,400	3.6	232	2.0	244	1.8	114	1.0	118	2	1/2 OD	7/8 ID	49
RLC 120	12,000	3.6	232	2.0	244	1.8	114	1.0	118	2	1/2 OD	7/8 ID	51
RLC 130	13,000	3.6	232	2.0	244	1.8	114	1.0	118	2	1/2 OD	7/8 ID	53
RLC 140	14,000	5.4	348	3.0	366	2.7	171	1.5	177	3	1/2 OD	7/8 ID	63
RLC 156	15,600	5.4	348	3.0	366	2.7	171	1.5	177	3	1/2 OD	7/8 ID	67
RLC 180	18,000	5.4	348	3.0	366	2.7	171	1.5	177	3	1/2 OD	7/8 ID	69
RLC 208	20,800	7.2	464	4.0	488	3.6	228	2.0	236	4	1/2 OD	1-1/8 ID	82
RLC 260	26,000	9.0	580	5.0	610	4.5	285	2.5	295	5	1/2 OD	1-1/8 ID	103

\*10° F T.D. +25° F SST

NOTE: All motors are 1/15 HP and 1.8 amps. To determine total amps multiply 1.8 by the number of fans. Ex. 2 fans x 1.8 = 3.6 total amps for that unit.

### Evaporators with Shaded Pole Motors

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2
1	EA	97813	RLC040A 4000 BTU LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97814	RLC052A 5200 BTU LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97815	RLC065A 6500 BTU LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97816	RLC070A 7000 BTU LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97817	RLC090A 9000 BTU LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97818	RLC104A 10400 BTU LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97819	RLC120A 12000 BTU LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97820	RLC130A 13000 BTU LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97821	RLC140A 14000 BTU LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97822	RLC156A 15600 BTU LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97823	RLC180A 18000 BTU LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97824	RLC208A 20800 BTU LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97825	RLC260A 26000 BTU LOW PROFILE AIR DEFROST EVAP	—	—

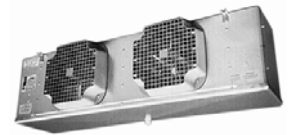
### Evaporators with ECM Motors

1	EA	97914	RLC052AE 5200 BTU W/ECM LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97915	RLC065AE 6500 BTU W/ECM LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97916	RLC070AE 7000 BTU W/ECM LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97917	RLC090AE 9000 BTU W/ECM LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97918	RLC104AE 10400 BTU W/ECM LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97919	RLC120AE 12000 BTU W/ECM LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97920	RLC130AE 13000 BTU W/ECM LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97921	RLC140AE 14000 BTU W/ECM LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97922	RLC156AE 15600 BTU W/ECM LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97923	RLC180AE 18000 BTU W/ECM LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97924	RLC208AE 20800 BTU W/ECM LOW PROFILE AIR DEFROST EVAP	—	—
1	EA	97925	RLC260AE 26000 BTU W/ECM LOW PROFILE AIR DEFROST EVAP	—	—



## Model ELC Walk-In Evaporators

### Low Profile, Electric Defrost



#### Cabinet

- Extended model and capacity offerings to better match with Chandler condensing units.
- New cabinet design features easy front access to electrical and refrigeration components.
- Panels are isolated for quiet operation.
- Schrader valve on suction header.
- The electric control board is front-facing for easy access.
- Liquid line solenoid wire harness.
- Pre-drilled holes on the back of the unit for room thermostat and controls.
- UL Listed

#### Heaters and Coil

- Air, electric, and hot gas defrost.
- Heaters are coil face mount, for better defrost.
- Reduced heater wattages.
- Fixed defrost termination, adjustable for hot gas.

#### Guards and Motors

- Motor harness and solenoid harness are at the bottom of the unit for easy access.

#### Drain Pan

- Improved drain pan design
- Drain pan heater design allows for more contact with coil and drain pan.

#### Electric Defrost Physical Data

Model No.	Number of Fans	Connections (inches)		Approx. Net Wt. (Lbs.)
		Coil Inlet	Suction	
ELC 040	1	1/2 OD	5/8 ID	26
ELC 047	1	1/2 OD	5/8 ID	29
ELC 065	2	1/2 OD	5/8 ID	43
ELC 075	2	1/2 OD	5/8 ID	45
ELC 090	2	1/2 OD	7/8 ID	48
ELC 120	3	1/2 OD	7/8 ID	60
ELC 140	3	1/2 OD	7/8 ID	62
ELC 160	4	1/2 OD	1-1/8 ID	81

External equalizer is 1/4 OD. Drain fitting is 3/4 MPT.

#### ELC/EFC Electric Defrost Evaporators (60 Hz., 6 FPI)

Model No.	Capacity BTUH	No. of Fans	Shaded Pole Motor Data (Total Amps)			EC Motor		Defrost Heaters (Total Amps)	
			HP	208-230/1/60		208-230/1/60		Watts	230/1/60
				Amps	Watts	Amps	Watts		
ELC 040	4,000	1	1/15	1.0	122	0.5	59	900	3.9
ELC 047	4,700	1	1/15	1.0	122	0.5	59	900	3.9
ELC 065	6,500	2	1/15	2.0	244	1.0	118	1800	7.8
ELC 075	7,500	2	1/15	2.0	244	1.0	118	1800	7.8
ELC 090	9,000	2	1/15	2.0	244	1.0	118	1800	7.8
ELC 120	12,000	3	1/15	3.0	366	1.5	177	2700	11.7
ELC 140	14,000	3	1/15	3.0	366	1.5	177	2700	11.7
ELC 160	16,000	4	1/15	4.0	488	2.0	236	3600	15.7

#### Evaporators with Shaded Pole Motors

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2
1	EA	97799	ELC047B 4,700 BTU LOW PROFILE ELEC DEFROST EVAP	—	—
1	EA	97826	ELC040B 4000 BTU LOW PROFILE ELECT DEFROST EVAP	—	—
1	EA	97827	ELC065B 6,500 BTU LOW PROFILE ELECT DEFROST EVAP	—	—
1	EA	97828	ELC075B 7,500 BTU LOW PROFILE ELECT DEFROST EVAP	—	—
1	EA	97829	ELC090B 9,000 BTU LOW PROFILE ELECT DEFROST EVAP	—	—
1	EA	97830	ELC120B 12,000 BTU LOW PROFILE ELECT DEFROST EVAP	—	—
1	EA	97831	ELC140B 14,000 BTU LOW PROFILE ELECT DEFROST EVAP	—	—
1	EA	97832	ELC160B 16,000 BTU LOW PROFILE ELECT DEFROST EVAP	—	—

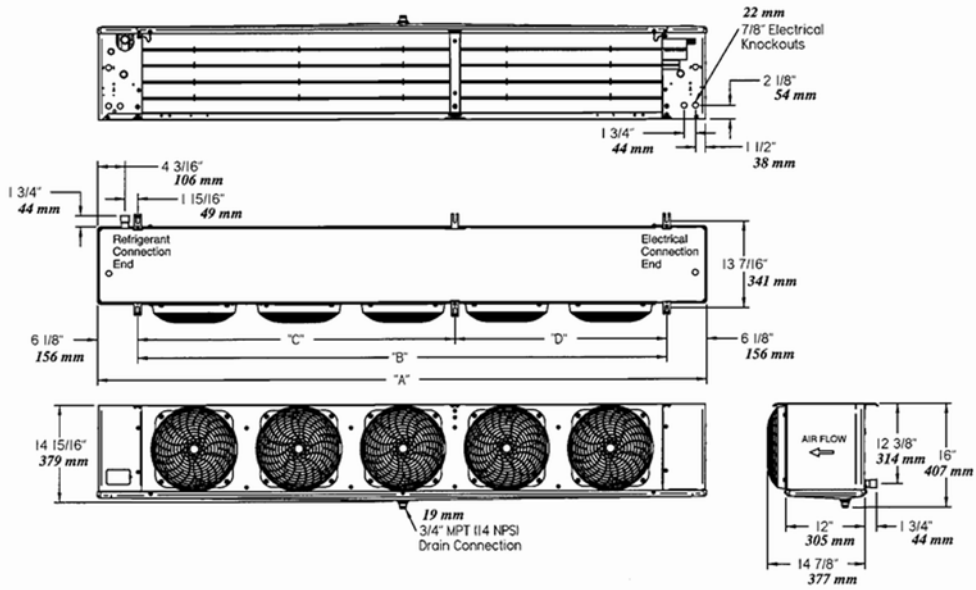
#### Evaporators with ECM Motors

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2
1	EA	97899	ELC047BE 4,700 BTU W/ECM LOW PROFILE ELEC DEFROST EVAP	—	—
1	EA	97926	ELC040BE 4000 BTU W/ECM LOW PROFILE ELECT DEFROST EVAP	—	—
1	EA	97927	ELC065BE 6,500 BTU W/ECM LOW PROFILE ELECT DEFROST EVAP	—	—
1	EA	97928	ELC075BE 7,500 BTU W/ECM LOW PROFILE ELECT DEFROST EVAP	—	—
1	EA	97929	ELC090BE 9,000 BTU W/ECM LOW PROFILE ELECT DEFROST EVAP	—	—
1	EA	97930	ELC120BE 12,000 BTU W/ECM LOW PROFILE ELECT DEFROST EVAP	—	—
1	EA	97931	ELC140BE 14,000 BTU W/ECM LOW PROFILE ELECT DEFROST EVAP	—	—
1	EA	97932	ELC160BE 16,000 BTU W/ECM LOW PROFILE ELECT DEFROST EVAP	—	—





# RLC and ELC Dimensional Data



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## Dimensional Data for all Models

Air Defrost Models	Electric and Hot Gas Defrost Models	Dimensions (In.)	
6 FPI	6 FPI	A	B
040		29.50	17.25
052	040	29.50	17.25
065		29.50	17.25
070		45.50	33.25
090	065	45.50	33.25
104		45.50	33.25
120	075	45.50	33.25
130	090	45.50	33.25
140	120	61.50	49.25
156		61.50	49.25
180	140	61.50	49.25
208	160	77.50	65.25
260		93.50	81.25

NOTE: Hanger brackets will accept 3/8" hanger rods.



## Model GLC Walk-In Evaporators

### Low Profile Hot Gas Defrost Evaporators



#### Cabinet

- Extended model and capacity offerings to better match with Chandler condensing units.
- New cabinet design features easy front access to electrical and refrigeration components.
- Small physical cabinet size with interior optimized space.
- Panels are isolated for quiet operation.
- Schrader valve on suction header.
- Hanger bars are located inside the cabinet and are powder coated for corrosion protection.
- On 4–6 fan models, lanyards are included as a drain pan holder.
- The electric control board is front-facing for easy access.
- Liquid line solenoid wire harness.
- Pre-drilled holes on the back of the unit for room thermostat and controls.
- UL Listed

#### Heaters and Coil

- Heaters are coil face mount, for better defrost.
- Internally enhanced tubing and fin design for higher efficiency.
- Reduced heater wattages.
- Fixed defrost termination, adjustable for hot gas.
- Heaters safety limit.

#### Guards and Motors

- Improved plastic black guard design.
- Motor harness and solenoid harness are at the bottom of the unit for easy access.
- Motor harness easily plugs in.

#### Drain Pan

- Improved drain pan design
- Drain pan heater design allows for more contact with coil and drain pan.



## Model LAH Walk-In Evaporators

### Low Velocity Air Defrost Unit Coolers



The LAH low velocity air defrost units feature very low coil face velocity yet provides positive, quiet air movement. This combination assures even box temperatures and high humidity at the same time. LAH unit coolers equal or outperform gravity coils but are far more economical to install. Their low, narrow construction was designed especially for installation between the rail beams in meat storage and aging rooms.

The high humidity characteristics of the LAH minimize shrinkage and dehydration of produce. Model LAH has been designed for the attractive appearance and easy cleaning necessary in food processing. The LAH is best used in applications between 35° and 38° F. Also available in electric or hot gas defrost. UL Listed.



## Model HWA Walk-In Evaporators

### Low Air Flow Air Defrost Unit Coolers



HWA models are ideal for floral storage, fresh fruit and vegetables, dough retarding, fresh meat storage and preparations, and many other applications of 35° F and above. The low air flow and quiet fans are classically suited for work room applications.

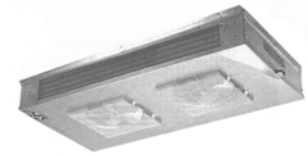
The generous coil surface combined with close T. D. system balance provides high humidity characteristics to minimize product shrinkage and drying. Also available in electric or hot gas defrost. UL Listed.



## Model TLH Walk-In Evaporators Center Mount Air Defrost Unit Coolers

Model TLH units are compact, medium velocity coolers designed for use in +35° F and above rooms. The low height gives more head room and allows product to be stacked higher. The center ceiling mount with dual air flow allows shelving and storage of product around all walls.

Also equipped with dual drain pans to prevent sweating, the TLH units have a heavy gauge grained aluminum cabinet that cleans easily and looks attractive. The PVC coated fan guards won't rust or rattle.



Ease of installation and service are also part of the design. The panels on the ends quickly remove to complete access to refrigerant components and electrical terminal block, without the need to drop the fan panel/drain pan. UL Listed.



## Model TLL Walk-In Evaporators Center Mount Electric Defrost Unit Coolers

Model TLL is the compact, ceiling mount with only 8-5/8" height that provides maximum headroom in a commercial freezer. The center mount design allows for product to be stacked all around while air flow distributes evenly throughout the box. TLL units are designed for -20° F to +34° F and are ideal for tight storage situations.

Standard features include a heavy gauge grained aluminum cabinet that cleans easily and looks attractive. The stainless steel screws prevent rust streaks, and the PVC coated fan guards won't rust. The TLL unit coolers are designed to be easy to install and service. All the defrost controls are mounted and wired to a terminal board, and panels on either end remove quickly for complete access to the refrigerant components and electrical connection point. A quick disconnect, waterproof plug, and receptacle is supplied with each motor. UL Listed.



## Model HMA Walk-In Evaporators Medium Profile Air Defrost Unit Coolers

Model HMA units are designed with superior quality and dependable performance. With features like the innovative Thermo-Flex™ coil design which carries a five-year limited guarantee against refrigerant leaks, internal grooved tubing for greater heat transfer efficiency and motors that plug into the wiring harness for easier accessibility, these units provide long life and dependability to your refrigeration application.

With 10,000 to 71,000 BTUH size ranges and a modular design that is only 25 inches high, these unit coolers serve a variety of commercial and industrial applications. Also available in electric or hot air defrost. UL Listed.





## Model CH Air Cooled Condensing Units

1/2 through 5 HP, Indoor/Outdoor, with Hermetic Compressors



- Oversized aluminum fin, copper tube condenser that works in high ambients.
- Motors rated for 50 and 60 cycle application.
- Fans specifically matched with motor and coil to attain maximum air movement and cooling.
- Prepainted G90 galvanized cabinets for superior strength and corrosion protection including hoods for outdoor units only. Heavy duty steel raised base with 1-1/2" legs.
- A receiver with fusible plug, liquid shutoff valve and charging port is also standard.
- UL Listed.

### High Temperature R-22 Hermetic Condensing Units

CH* Model No.	Compressor	Refrigerant	Suction Temp. °F	BTUH @ 95° Ambient	Connections (In.)		MCA		Receiver 90% Full Lbs.	Dimensions H x W x D (In.)	Approx. Ship Wt. (Lbs.)
					Liquid IDS	Suction IDS	Air	Elec.			
CH*005H2	ART82C1	High Temp	25	5,960	3/8	1/2	15	20	6.0	17-1/4 x 23-3/4 x 28-1/4	134
CH*008H2	RS64C2	HCFC-22		8,350	3/8	1/2	15	20	6.0	17-1/4 x 23-3/4 x 28-1/4	146
CH*010H2	RS70C1			9,500	3/8	5/8	15	20	6.0	17-1/4 x 23-3/4 x 28-1/4	145
CH*015H2	CR18KQ	High Temp	25	12,910	3/8	5/8	15	24	10.0	17-1/4 x 37-3/4 x 28-1/4	186
CH*020H2	CR24KQ	HCFC-22		16,910	3/8	7/8	20	24	10.0	17-1/4 x 37-3/4 x 28-1/4	188
CH*030H2	CR37KQ	High Temp	25	28,090	1/2	7/8	24.3	38	22.0	29-3/4 x 42-1/2 x 30-1/4	264
CH*040H2	CR53KQ	HCFC-22		38,840	1/2	1-1/8	36	48	22.0	29-3/4 x 42-1/2 x 30-1/4	272
CH*050H2	CRN-0500			44,050	1/2	1-1/8	42	59	22.0	29-3/4 x 42-1/2 x 30-1/4	286

### High Temperature R-404A Hermetic Condensing Units‡

CH* Model No.	Compressor	Refrigerant	Suction Temp. °F	BTUH @ 95° Ambient	Connections (In.)		MCA		Receiver 90% Full Lbs.	Dimensions H x W x D (In.)	Approx. Ship Wt. (Lbs.)
					Liquid IDS	Suction IDS	Air	Elec.			
CH*005X6BFM	RS43C2E	High-Temp R-404A	25	5,970	3/8	1/2	15	20	5.5	17-1/4 x 23-3/4 x 28-1/4	162
CH*009X6BFM	RS70C2E			8,420	3/8	5/8	15	20	5.5	17-1/4 x 23-3/4 x 28-1/4	171
CH*010X6BFM	RS70C1E			8,850	3/8	5/8	15	20	5.5	17-1/4 x 23-3/4 x 28-1/4	165
CH*010X6CFM				8,850	3/8	5/8	15	20	5.5	17-1/4 x 23-3/4 x 28-1/4	165
CH*015X6BFM	CS10K6E			13,960	3/8	5/8	15	24	9.0	17-1/4 x 37-3/4 x 28-1/4	236
CH*015X6CFM				13,960	3/8	5/8	15	20	9.0	17-1/4 x 37-3/4 x 28-1/4	235
CH*025X6BFM	CS14K6E			17,490	3/8	7/8	15	29	9.0	17-1/4 x 37-3/4 x 28-1/4	244
CH*025X6CFM				17,490	3/8	7/8	15	24	9.0	17-1/4 x 37-3/4 x 28-1/4	245
CH*030X6BFM	CS18K6E			25,490	1/2	7/8	21	38	20.0	29-3/4 x 42-1/2 x 30-1/4	303
CH*030X6CFM				25,490	1/2	7/8	15	29	20.0	29-3/4 x 42-1/2 x 30-1/4	303
CH*040X6BFM	CS27K6E			37,270	1/2	1-1/8	30.3	44	20.0	29-3/4 x 42-1/2 x 30-1/4	324
CH*040X6CFM				37,270	1/2	1-1/8	20.7	38	20.0	29-3/4 x 42-1/2 x 30-1/4	324
CH*050X6BFM	CS33K6E			41,000	1/2	1-1/8	38	59	20.0	29-3/4 x 42-1/2 x 30-1/4	340
CH*050X6CFM				41,000	1/2	1-1/8	24.5	38	20.0	29-3/4 x 42-1/2 x 30-1/4	324

### Low Temperature R-404A/507 Hermetic Condensing Unit

CH* Model No.	Compressor	Refrigerant	Suction Temp.	BTUH @ 95° Ambient	Connections (In.)		MCA		Receiver 90% Full Lbs.	Dimensions H x W x D (In.)	Approx. Ship Wt. (Lbs.)
					Liquid IDS	Suction IDS	Air	Elec.			
CH*014L6	CF06K63	Low Temp	-10° F	7,790	3/8	5/8	15	20	5.5	17-1/4 x 23-3/4 x 28-1/4	160
CH*025L6	CF09K6E	HFC-404A/507		13,150	3/8	7/8	20	29	9.0	17-1/4 x 37-3/4 x 28-1/4	209
CH*031L6	CF12K6E			15,909	1/2	7/8	22.3	37.5	14.0	19-3/4 x 37-3/4 x 28-1/4	217

‡ These units are capable of operating in Low Temperature applications. A field installed accumulator defrost time clock needs to be added. Check with your local G.W. Berkheimer representative for BTU ratings.

\* = T for outdoor, N for indoor, S for Beacon II.

### High Temp R22 Hermetic Condensing Units

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2
1	EA	97833	CHT005H2BF 5,960 BTU 230-1 PH R22 HIGH TEMP CONDENSING UNIT	—	—
1	EA	97834	CHT008H2BF 8,350 BTU 230-1 PH R22 HIGH TEMP CONDENSING UNIT	—	—
1	EA	97835	CHT010H2BF 9,500 BTU 230-1 PH R22 HIGH TEMP CONDENSING UNIT	—	—
1	EA	97836	CHT010H2CF 9,500 BTU 230-3 PH R22 HIGH TEMP CONDENSING UNIT	—	—
1	EA	97837	CHT015H2BF 12,910 BTU 230-1 PH R22 HIGH TEMP CONDENSING UNIT	—	—
1	EA	97838	CHT015H2CF 12,910 BTU 230-3 PH R22 HIGH TEMP CONDENSING UNIT	—	—
1	EA	97839	CHT020H2BF 16,910 BTU 230-1 PH R22 HIGH TEMP CONDENSING UNIT	—	—
1	EA	97840	CHT020H2CF 16,910 BTU 230-3 PH R22 HIGH TEMP CONDENSING UNIT	—	—
1	EA	97841	CHT030H2BF 28,090 BTU 230-1 PH R22 HIGH TEMP CONDENSING UNIT	—	—
1	EA	97842	CHT030H2CF 28,090 BTU 230-3 PH R22 HIGH TEMP CONDENSING UNIT	—	—
1	EA	97843	CHT040H2CF 38,840 BTU 230-3 PH R22 HIGH TEMP CONDENSING UNIT	—	—
1	EA	97844	CHT050H2CF 44,050 BTU 230-3 PH R22 HIGH TEMP CONDENSING UNIT	—	—

**Med/High Temp R-404A Hermetic Condensing Units**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2
1	EA	97858	CHT005X6BFM 4580 BTU 230-1PH R404A MED TEMP CONDENSING UNIT	—	—
1	EA	97859	CHT009X6BFM 7850 BTU 230-1PH R404A MED TEMP CONDENSING UNIT	—	—
1	EA	97860	CHT010X6BFM 8640 BTU 230-1PH R404A MED TEMP CONDENSING UNIT	—	—
1	EA	97861	CHT010X6CFM 8640 BTU 230-3PH R404A MED TEMP CONDENSING UNIT	—	—
1	EA	97862	CHT015X6BFM 12580 BTU 230-1PH R404A MED TEMP CONDENSING UNIT	—	—
1	EA	97863	CHT015X6CFM 12580 BTU 230-3PH R404A MED TEMP CONDENSING UNIT	—	—
1	EA	97864	CHT025X6BFM 15820 BTU 230-1PH R404A MED TEMP CONDENSING UNIT	—	—
1	EA	97865	CHT025X6CFM 15820 BTU 230-3PH R404A MED TEMP CONDENSING UNIT	—	—
1	EA	97866	CHT030X6BFM 24510 BTU 230-1PH R404A MED TEMP CONDENSING UNIT	—	—
1	EA	97867	CHT030X6CFM 24510 BTU 230-3PH R404A MED TEMP CONDENSING UNIT	—	—
1	EA	97868	CHT040X6BFM 33160 BTU 230-1PH R404A MED TEMP CONDENSING UNIT	—	—
1	EA	97869	CHT040X6CFM 33160 BTU 230-3PH R404A MED TEMP CONDENSING UNIT	—	—
1	EA	97870	CHT050X6BFM 38130 BTU 230-1PH R404A MED TEMP CONDENSING UNIT	—	—
1	EA	97871	CHT050X6CFM 38130 BTU 230-3PH R404A MED TEMP CONDENSING UNIT	—	—

**Low Temperature R404A/507 Hermetic Condensing Units**

1	EA	97845	CHT014L6BF 7,790 BTU 230-1 PH R404A LOW TEMP CONDENSING UNIT	—	—
1	EA	97846	CHT014L6CF 7,790 BTU 230-3 PH R404A LOW TEMP CONDENSING UNIT	—	—
1	EA	97849	CHT025L6BF 13,150 BTU 230-1 PH R404A LOWTEMP CONDENSING UNIT	—	—
1	EA	97850	CHT025L6CF 13,150 BTU 230-3 PH R404A LOW TEMP CONDENSING UNIT	—	—
1	EA	97852	CHT031L6CF 15,909 BTU 230-3 R404A LOW TEMP CONDENSING UNIT	—	—



**Model CZ Air Cooled Condensing Units**  
2 through 6 HP, Indoor or Outdoor, with Scroll Compressors



- Copeland hermetic, new Glacier Scroll and the popular Copeland low temperature compressors.
- Large electrical panel for ease of access.
- Prefabricated wiring harnesses for tight connections and to simplify service.
- Encapsulated, auto-reset, high and low pressure controls to eliminate leaks (standard on all high and medium temperature models, adjustable low pressure control standard on low temperature models).
- All units completely leak tested in a helium environment and run tested.
- Includes: Crankcase heater, head pressure control flooding valve, liquid line drier, and sight glass.
- Air or Electric defrost timer: 1/2 to 3 HP low temp.
- Electric defrost with timer and contactors: 4 to 6 HP low temp.
- UL listed.

**CZ\* Series Outdoor**

CZ* Model No.	Compressor	Refrigerant	Suction Temp.	BTUH @ 95° Ambient	Connections (In.)		Unit MCA‡		Receiver 90% Full Lbs.	Dimensions H x W x D (In.)	Approx. Ship Wt. (Lbs.)
					Liquid IDS	Suction IDS	208/230/1	208-230/3			
CZ*025L6	ZF08K4E	**Low Temp	-10° F	11,850	1/2	7/8	20	15	14	19-3/4 x 37-3/4 x 28-1/4	203
CZ*030L6	ZF09K4E	HFC-404A/507/22		13,200	1/2	7/8	20	15	14		197

‡ Minimum Circuit Amps: Air Defrost Type Unit.

\* = T for outdoor, N for indoor, S for Beacon II.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2
1	EA	97855	CZT025L6C 11,850 BTU 230-3 PH R404A LOW TEMP SCROLL COND UNI	—	—
1	EA	97857	CZT030L6CF 13,200 BTU 230-3 PH R404A LOW TEMP SCROLL COND UNI	—	—



## Parts

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	98027	5021SS 1/150HP 120V 3000RPM CWSE MOTOR	—
1	EA	98016	5036SS 1/15HP 115V 1550RPM CWSE MOTOR	—
1	EA	98018	5036TS 1/15HP 230V 1550RPM CWSE MOTOR	—
1	EA	98012	5054D LEXAN FAN GUARD	—
1	EA	98005	5101B 5.5IN 24DEG CCW FAN BLADE	—
1	EA	98004	5110E 12IN 24DEG CCW FAN BLADE	—
1	EA	98003	5140C 12IN 23DEG CW FAN BLADE	—
1	EA	98006	5708L OPEN 75 CLOSES 40 THERMOSTAT	—
1	EA	98007	5709L OPEN 55 CLOSE 35 DEFROST TERMINATION SWITCH	—
1	EA	98025	2531194 40MHP 115V 1550RPM CCWSE MOTOR	—
1	EA	98023	2537974S 1/4HP 230V 1075RPM CCW MOTOR	—
1	EA	98015	7071061 1/15HP 230V 1550RPM CCWSE MOTOR	—
1	EA	98022	7071208S 1/3HP 230V 1075RPM CCWSE MOTOR	—
1	EA	98008	7075819 3 WIRE 50 DEG DEFROST THERMOSTAT	—
1	EA	98026	23102401 LOW PROFILE MOTOR MOUNT	—
1	EA	98009	92864003 3/4IN FPT W/3/4 CPLG DRAIN FITTING	—
1	EA	98014	25300701S 1/150 HP 115V 3000 RPM CWSE MOTOR	—
1	EA	98017	25309101S 1/15HP 230V 1550RPM CCWSE MOTOR	—
1	EA	98019	25300101S 1/20 115V 1550RPM CWSE MOTOR	—
1	EA	98020	25300201S 1/20HP 230V 1550RPM CWSE MOTOR	—
1	EA	98002	026215300 10IN 40DEG 5/16 CCW FAN BLADE	—
1	EA	98028	28900107 BEACON I TEMPERATURE SENSOR	—
1	EA	98021	038688900 1/20HP 230V 1550RPM CW MOTOR	—
1	EA	98011	D21194A2 12IN 19DEG CW FAN BLADE	—



## HHA Warehouse Evaporators High Profile Air Defrost Unit Coolers

Model HHA large air defrost unit coolers are ideal for warehouse cooler applications. With a wide capacity range and the patented Thermo-Flex™ coil design, these large unit coolers provide efficient, reliable operation. Features include a mill finish aluminum cabinet, 850 RPM motors for low noise and reliability, liquid line solenoid wiring harness for faster installation, suction Schrader fitting for easier suction temperature measurement. Also, the large unit coolers have captive fasteners on access panels for easy servicing; no fumbling with loose bolts and nuts. The HH Series also has a standardized terminal board for easier field wiring.



Options include high CFM motor and fan combinations, totally enclosed motors, low temperature motors for blast cooling, long air throw collars for large warehouse/industrial applications, and insulated drain pans. UL Listed.



## Beacon® II Refrigeration System



Beacon II is the next generation of Chandler's patented pre-assembled, factory installed refrigeration system featuring an integrated microcomputer-based electronic control board. Beacon II offers:

- Complete factory installation, wiring, and testing which saves time and money.
- Simple field electrical connections and 24 volt wiring between condensing and evaporator coil.

- Present factory superheat allowing the system to run more efficiently and reducing future adjustments.
- Monitors and controls box temperature, evaporator superheat, condenser fan cycling, system status and defrost from outside the box.
- Monitor and make system changes remotely via modem and exclusive Beacon Smart II software.
- Data logging capabilities with Smart Controller.



## HDH Horizontal Air Discharge Outdoor Condensing Units 15 through 40 HP with Discus Compressors



The HDH outdoor Discus condensing unit features a new leak resistant design which includes the patented fully Floating Tube condenser. The HDH features a high efficiency Copeland Discus compressor.

The electrical controls including compressor contactor and optional defrost control are located in an easily accessible control box with a hinged cover. UL listed.



## HRI Indoor Condensing Units

### 3/4 through 30 HP with Reed Compressors



HRI models feature a new leak resistant design that includes a patented free-floating tube condenser coil. Electrical controls are located in an easily accessible control box with a hinged cover which also has room for the defrost controls when required.

HRI models feature a Reed compressor. Receivers are sized for sufficient pumpdown capacity and vapor-free liquid. The HRI cabinet is constructed from pre-painted G90 galvanized steel. UL Listed.



## HDI Indoor Condensing Units

### 3/4 through 30 HP with Reed Compressors



HDI models, 3/4 to 30 HP, feature a new leak resistant design that includes a patented free-floating tube condenser coil. Electrical controls are located in an easily accessible control box with a hinged cover which also has room for the defrost controls when required.

HDI models feature a Discus compressor. Receivers are sized for sufficient pump down capacity and vapor-free liquid. The HDI cabinet is constructed from prepainted G90 galvanized steel. UL Listed.



## HDD Dual Compressor Outdoor Condensing Units

### 24 through 80 HP



The HDD condensing unit is a dual compressor vertical discharge outdoor condensing unit that utilizes Copeland Discus compressors.

A wide range of options are available that are ideal for large cold storage or warehouse applications. UL Listed.



## HWN and ZWN Water Cooled Condensing Units

### 1/2 through 6 HP, Remote, with Hermetic or Scroll Compressors



The HW or ZW Series is a water cooled hermetic and scroll condensing unit line. These new condensing units component selection, location, base and unit dimensions are all optimized for easy field replacements or in new installations where space is limited. Extra space is provided inside the electrical box for easy servicing. The area is large enough to accommodate circuit breakers, compressor contactors time clocks, and all start components in one enclosure.

Standard features include compressor isolation valves that enable service technicians to isolate the compressor for service. Also standard is the extra capacity receiver which provides total refrigerant pump down. Ideal for units requiring long line runs. These units are available with Copeland hermetic, scroll low and medium temperature compressors as well as hermetic low temperature compressors for HCFC-22 and HFC-404A. These units are UL listed.





## SWN Water Cooled Condensing Units

3/4 through 22 HP, Indoor



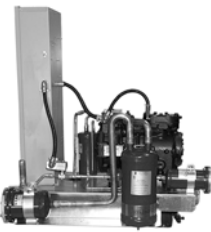
Model SWN are "vessel-mounted" indoor water cooled condensing units. They are complete with a shell and tube, cleanable, water cooled, condenser for those applications where air cooled condensers would not be practical, or water is readily available.

Available in sizes 3/4 to 22 HP in all temperature ranges, the SWN units are an economical, compact selection for many jobs. UL Listed.



## SRN Remote and Water Cooled Condensing Units

3/4 through 22 HP, Remote Indoor Compressor



SRN models are indoor compressor units designed for use with a remote air cooled or evaporative condenser. Typical applications include supermarkets, warehouses, convenience stores, or wherever outdoor roof or pad space is at a minimum.

SRN units are available in sizes 3/4 to 22 HP in high, medium and low temperature. UL Listed.



## WSS Air Cooled Condensers

1 through 26 Tons



WSS air cooled condensers are designed for efficient performance and low maintenance. The units feature an aluminum cabinet for long life and attractive appearance.

The aluminum fin, copper tube coils have staggered tube design for high efficiency. All coils are dehydrated, pressure tested, sealed with caps, and pressurized for shipment. UL Listed.



## HLS/HLE/HLX/HLQ Air Cooled Condensers

21 through 212 Tons, Direct Drive



The HLS/HLE/HLX/HLQ series feature the patented Floating Tube condenser coil which virtually eliminates the possibility of tube support leaks. The units are configured with single and double wide fan modules and are available with 540, 830 or 1140 RPM motors.

Units may be ordered with painted galvanized or smooth aluminum cabinetry. A wide variety of options are available to allow unit customization. UL Listed.



## Sealed Enclosure Air Conditioners



Sealed enclosure cooling is for hot and dirty environments. It maintains the seal of the enclosure, protecting the electronics from damaging dust, waer, and other harmful elements.

### SPECTRACOOL™ Indoor/Outdoor

An energy-efficient rotary compressor and new earth-friendly refrigerant provide reliable cooling in rugged indoor and outdoor environments. All models ar built with corrosion-resistant components and are Telecordia GR-487 capable.

### Genesis® Compact Indoor

The Type 12 air conditioner of choice for light-duty manufacturing process control applications.

### PROAIR Harsh Environment/Washdown

Available in stainless steel and painted galvanized sheet metal options, the PRO AIR Air Conditioner is engineered tough to seal-out high-pressure hose water and withstand corrosive atmospheres.

### T-Series Mid-Size Outdoor

The perfect enclosure cooling system for outdoor cabinets when precise temperature control is needed. Engineered to seal out virtually any bad weather.

### G-52 SPECTRACOOL Models

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	69141	G52-0826-G050 8000 BTU 230V MCLEAN UNIT	—
1	EA	69142	G52-1216-G050 12000 BTU 115V MCLEAN UNIT	—
1	EA	69143	G52-1226-G050 12000 BTU 410A 230V MCLEAN UNIT	—

### M-52 Genesis Models

1	EA	69139	M52-0816-G050 8000 BTU 115V MCLEAN UNIT	—
1	EA	69150	M52-0516-062HD 5000 BTU 115V 1PH CABINET COOLER	—
1	EA	69156	M52-1216-069HD 12000 BTU 115V 1PH CABINET COOLER	—
1	EA	69157	M52-1226-114HD 12000 BTU 460V 1PH CABINET COOLER	—
1	EA	69158	M52-1226-110HD 12000 BTU 230V 1PH CABINET COOLER	—
1	EA	69162	87541939 MOUNTING BRACKET	—

### M-17 Genesis Model

1	EA	69147	M17-0216-G092HD 2000 BTU 115V 1PH CABINET COOLER 87835895	—
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### M-28 Genesis Model

1	EA	69151	M28-0626-G030HD 6000 BTU 230V 1PH CABINET COOLER	—
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### M-33 Genesis Model

1	EA	69148	M33-0416-G062HD 4000 BTU 115V 1PH CABINET COOLER	—
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### M-36 Genesis Model

1	EA	69152	M36-0616-333HD 6000 BTU 115V 1PH CABINET COOLER	—
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### CR ProAir Models

1	EA	69140	CR43-0816-002 115V 8M BTU CABINET COOLER	—
1	EA	69144	CR43-0616-002 6000 BTU 115V MCLEAN UNIT	—
1	EA	69145	CR43-0826-002 8000 BTU 230V MCLEAN UNIT	—
1	EA	69149	CR29-0416-G054HD 4000 BTU 115V 1PH CABINET COOLER	—
1	EA	69153	CR43-0616-G033HD 6000 BTU 115V 1PH CABINET COOLER	—

### T-Series

1	EA	69160	T53-1926-G116 14000 BTU 230V 1PH CABINET COOLER	—
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**Manitowoc SM50 Series Ice Machine**



- Individual cubes with unique octagon shape
- Water filter system integrated inside machine with depth filtration and scale inhibitor
- Lighted bin (LED light) with large opening for easy access

- 3-year parts and labor warranty on entire machine

NOTE: This product is intended exclusively for commercial application. No warranty extended for personal, family, or household purposes.

Model	Pounds/Day	Cube Size	Height (In.)	Width (In.)	Depth (In.)	Voltage	Ice Storage Capacity (Lbs.)
SM50A	53	Octagonal	34	14-3/4	23-1/2	115	25

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98100	SM-50-A 50# STD OCTAGON AIR COOLED ICE MACHINE

Call your local G.W. Berkheimer representative for pricing and availability.

**Manitowoc S-300 Series Ice Machines**



- Stainless steel exterior with the fit and finish of an appliance
- Rugged, corrosion-free base
- Patented cleaning and sanitizing technology
- Batch water system delivers better ice cube formation
- R-404A CFC-free refrigerant
- 5-year parts and 5-year labor coverage on ice machine evaporator
- 5-year parts and 3-year labor coverage on ice machine compressor
- 3-year parts and labor coverage on all other ice machine, dispenser, and storage bin components

S-300 on B-400 Bin

Model	Pounds/Day	Cube Size	Height (In.)	Width (In.)	Depth (In.)	Voltage	Weight (Lbs.)	Compatible Ice Storage Bin
SD-0302A	255	Dice	16-1/2	30	24-1/2	115/60/1	132	B-170 and B-400
SD-0303W	270	Dice	16-1/2	30	24-1/2	115/60/1	134	
SY-0304A	255	Half-Dice	16-1/2	30	24-1/2	115/60/1	132	
SY-0305W	270	Half-Dice	16-1/2	30	24-1/2	115/60/1	134	

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98115	SD-0302A 325# DICE AIR COOLED ICE MACHINE
1	EA	98116	SD-0303W 325# DICE WATER COOLED ICE MACHINE
1	EA	98117	SY-0304A 325# HALF DICE AIR COOLED ICE MACHINE
1	EA	98118	SY-0305W 325# HALF DICE WATER COOLED ICE MACHINE

Call your local G.W. Berkheimer representative for pricing and availability.

## **Manitowoc S-322 Series Ice Machines**



- Stainless steel exterior with the fit and finish of an appliance
- Rugged, corrosion-free base
- Patented cleaning and sanitizing technology
- Batch water system delivers better ice cube formation
- R-404A CFC-free refrigerant
- 5-year parts and 5-year labor coverage on ice machine evaporator
- 5-year parts and 3-year labor coverage on ice machine compressor
- 3-year parts and labor coverage on all other ice machine, dispenser, and storage bin components

### S-322 on B-420 Bin

Model	Pounds/Day	Cube Size	Height (In.)	Width (In.)	Depth (In.)	Voltage	Weight (Lbs.)	Compatible Ice Storage Bin
SD-0322A	250	Dice	21-1/2	22	24-1/2	115/60/1	133	B-320 and B-420
SD-0323W	290	Dice	21-1/2	22	24-1/2	115/60/1	136	
SY-0324A	250	Half-Dice	21-1/2	22	24-1/2	115/60/1	135	
SY-0325W	290	Half-Dice	21-1/2	22	24-1/2	115/60/1	137	

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98119	SD-0322A 340# DICE AIR COOLED ICE MACHINE
1	EA	98120	SD-0323W 340# DICE WATER COOLED ICE MACHINE
1	EA	98121	SY-0324A 340# HALF DICE AIR COOLED ICE MACHINE
1	EA	98122	SY0325W 340# HALF DICE WATER COOLED ICE MACHINE

Call your local G.W. Berkheimer representative for pricing and availability.

## **Manitowoc S-422 Series Ice Machines**



- Stainless steel exterior with the fit and finish of an appliance
- Rugged, corrosion-free base
- Patented cleaning and sanitizing technology
- Batch water system delivers better ice cube formation
- 5-year parts and 5-year labor coverage on ice machine evaporator
- 5-year parts and 3-year labor coverage on ice machine compressor
- 3-year parts and labor coverage on all other ice machine, dispenser, and storage bin components
- Energy Miser

### S-422 on B-420 Bin

Model	Pounds/Day	Cube Size	Height (In.)	Width (In.)	Depth (In.)	Voltage	Weight (Lbs.)	Compatible Ice Storage Bin
SD-0422A	380	Dice	21-1/2	22	24-1/2	115/60/1	138	B-400* and B-420
SD-0423W	420	Dice	21-1/2	22	24-1/2	115/60/1	139	
SY-0424A	380	Half-Dice	21-1/2	22	24-1/2	115/60/1	139	
SY-0425W	420	Half-Dice	21-1/2	22	24-1/2	115/60/1	140	

\* K-00365 bin adapter required for use with the B-400 bin.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98123	SD-0422A 450# DICE AIR COOLED ICE MACHINE
1	EA	98124	SD-0423W 450# DICE WATER COOLED ICE MACHINE
1	EA	98125	SY-0424A 450# HALF DICE AIR COOLED ICE MACHINE
1	EA	98126	SY-0425W 450# HALF DICE WATER COOLED ICE MACHINE

Call your local G.W. Berkheimer representative for pricing and availability.

**Manitowoc S-450 Series Ice Machines**



S-450 on B-570 Bin

- Stainless steel exterior with the fit and finish of an appliance
- Rugged, corrosion-free base
- Patented cleaning and sanitizing technology
- Batch water system delivers better ice cube formation
- R-404A CFC-free refrigerant
- S-450 does not have stack-on capability
- 5-year parts and 5-year labor coverage on ice machine evaporator
- 5-year parts and 3-year labor coverage on ice machine compressor
- 3-year parts and labor coverage on all other ice machine, dispenser, and storage bin components
- Energy Miser

Model	Pounds/Day	Cube Size	Height (In.)	Width (In.)	Depth (In.)	Voltage	Weight (Lbs.)	Compatible Ice Storage Bin
SD-0452A	380	Dice	21-1/2	30	24-1/2	115/60/1	150	B-400 and B-570
SD-0453W	420	Dice	21-1/2	30	24-1/2	115/60/1	153	
SY-0454A	380	Half-Dice	21-1/2	30	24-1/2	115/60/1	155	
SY-0455W	420	Half-Dice	21-1/2	30	24-1/2	115/60/1	156	

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98127	SD-0452A 450# DICE AIR COOLED ICE MACHINE
1	EA	98128	SD-0453W 450# DICE WATER COOLED ICE MACHINE
1	EA	98129	SY-0454A 450# HALF DICE AIR COOLED ICE MACHINE
1	EA	98130	SY-0455W 450# HALF DICE WATER COOLED ICE MACHINE

Call your local G.W. Berkheimer representative for pricing and availability.

**Manitowoc S-500 Series Ice Machines**



S-500 on B-570 Bin

- Stainless steel exterior with the fit and finish of an appliance
- Rugged, corrosion-free base
- Patented cleaning and sanitizing technology
- Batch water system delivers better ice cube formation
- R-404A CFC-free refrigerant
- 5-year parts and 5-year labor coverage on ice machine evaporator
- 5-year parts and 3-year labor coverage on ice machine compressor
- 3-year parts and labor coverage on all other ice machine, dispenser, and storage bin components
- Energy Miser

Model	Pounds/Day	Cube Size	Height (In.)	Width (In.)	Depth (In.)	Voltage	Weight (Lbs.)	Compatible Ice Storage Bin
SD-0502A	400	Dice	21-1/2	30	24-1/2	115	161	B-400 and B-570
SD-0503W	480	Dice	21-1/2	30	24-1/2	115	163	
SD-0592N	460	Dice	21-1/2	30	24-1/2	115	165	
SY-0504A	400	Half-Dice	21-1/2	30	24-1/2	115	163	
SY-0505W	480	Half-Dice	21-1/2	30	24-1/2	115	164	
SY-0594N	460	Half-Dice	21-1/2	30	24-1/2	115	165	

**Ice Machines**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98131	SD-0502A 540# DICE AIR COOLED ICE MACHINE
1	EA	98132	SD-0503W 540# DICE WATER COOLED ICE MACHINE
1	EA	98133	SD-0592N 540# DICE REMOTE COOLED ICE MACHINE
1	EA	98134	SY-0504A 540# HALF DICE AIR COOLED ICE MACHINE
1	EA	98135	SY-0505W 540# HALF DICE WATER COOLED ICE MACHINE
1	EA	98136	SY-0594N 540# HALF DICE REMOTE COOLED ICE MACHINE

**Condenser for use with SY-0594N and SD-0592N for REMote Condensing Operation**

1	EA	98200	JC-0495 S-500 SERIES REMOTE AIR COOLED CONDENSING UNIT
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Call your local G.W. Berkheimer representative for pricing and availability.


**Manitowoc S-600 Series Ice Machines**


S-600 on B-570 Bin

- Stainless steel exterior with the fit and finish of an appliance
- Rugged, corrosion-free base
- Patented cleaning and sanitizing technology
- Batch water system delivers better ice cube formation
- R-404A CFC-free refrigerant
- S-600 Does not have stack-on capability
- 5-year parts and 5-year labor coverage on ice machine evaporator
- 5-year parts and 3-year labor coverage on ice machine compressor
- 3-year parts and labor coverage on all other ice machine, dispenser, and storage bin components
- Energy Miser

Model	Pounds/Day	Cube Size	Height (In.)	Width (In.)	Depth (In.)	Voltage	Weight (Lbs.)	Compatible Ice Storage Bin
SD-0602A	540	Dice	21-1/2	30	24-1/2	208-230	190	B-400 and B-570
SD-0603W	610	Dice	21-1/2	30	24-1/2	208-230	193	
SD-0692N	570	Dice	21-1/2	30	24-1/2	208-230	192	
SY-0604A	540	Half-Dice	21-1/2	30	24-1/2	208-230	191	
SY-0605W	610	Half-Dice	21-1/2	30	24-1/2	208-230	193	
SY-0694N	570	Half-Dice	21-1/2	30	24-1/2	208-230	192	

**Ice Machines**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98137	SD-0602A 650# DICE AIR COOLED ICE MACHINE
1	EA	98138	SD-0603W 650# DICE WATER COOLED ICE MACHINE
1	EA	98139	SD-0692N 650# DICE REMOTE COOLED ICE MACHINE
1	EA	98140	SY-0604A 650# HALF DICE AIR COOLED ICE MACHINE
1	EA	98141	SY-0605W 650# HALF DICE WATER COOLED ICE MACHINE
1	EA	98142	SY-0694N 650# HALF DICE REMOTE COOLED ICE MACHINE

**Condenser for use with SY-0694N and SD-0692N for Remote Condensing Operation**

1	EA	98201	JC-0895 S-600, 850, 1000 SERIES REMOTE AIR COOLED CONDENSING UNIT
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Call your local G.W. Berkheimer representative for pricing and availability.

**Manitowoc S-850 Series Ice Machines**



- Stainless steel exterior with the fit and finish of an appliance
- Food zone designed with soft, round, cove corners
- Select components made with AlphaSan anti-microbial
- Patented cleaning and sanitizing technology
- 5-year parts and 5-year labor coverage on ice machine evaporator
- 5-year parts and 3-year labor coverage on ice machine compressor
- 3-year parts and labor coverage on all other ice machine, dispenser, and storage bin components
- Energy Miser

S-850 on B-570 Bin

Model	Pounds/Day	Cube Size	Height (In.)	Width (In.)	Depth (In.)	Voltage	Weight (Lbs.)	Compatible Ice Storage Bin
SD-0852A	670	Dice	26-1/2	30	24-1/2	208-230	217	B-570, B-970* and C-730
SD-0853W	790	Dice	26-1/2	30	24-1/2	208-230	216	
SD-0892N	730	Dice	26-1/2	30	24-1/2	208-230	216	
SY-0854A	670	Half-Dice	26-1/2	30	24-1/2	208-230	217	
SY-0855W	790	Half-Dice	26-1/2	30	24-1/2	208-230	220	
SY-0894N	730	Half-Dice	26-1/2	30	24-1/2	208-230	226	

\* K-00370 bin adapter required.

**Ice Machines**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98143	SD-0852A 870# DICE AIR COOLED ICE MACHINE
1	EA	98144	SD-0853W 870# DICE WATER COOLED ICE MACHINE
1	EA	98145	SD-0892N 870# DICE REMOTE COOLED ICE MACHINE
1	EA	98146	SY-0854A 870# HALF DICE AIR COOLED ICE MACHINE
1	EA	98147	SY-0855W 870# HALF DICE WATER COOLED ICE MACHINE
1	EA	98148	SY-0894N 870# HALF DICE REMOTE COOLED ICE MACHINE

**Condenser for use with SY-0894N and SD-0892N for Remote Condensing Operation**

1	EA	98201	JC-0895 S-600, 850, 1000 SERIES REMOTE AIR COOLED CONDENSING UNIT
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Call your local G.W. Berkheimer representative for pricing and availability.

## **Manitowoc S-1000 Series Ice Machines**



- Stainless steel exterior with the fit and finish of an appliance
- Food zone designed with soft, round, cove corners
- Select components made with AlphaSan anti-microbial
- Patented cleaning and sanitizing technology
- 5-year parts and 5-year labor coverage on ice machine evaporator
- 5-year parts and 3-year labor coverage on ice machine compressor
- 3-year parts and labor coverage on all other ice machine, dispenser, and storage bin components
- Energy Miser

S-1000 on B-570 Bin

Model	Pounds/Day	Cube Size	Height (In.)	Width (In.)	Depth (In.)	Voltage	Weight (Lbs.)	Compatible Ice Storage Bin
SD-1002A	830	Dice	26-1/2	30	24-1/2	208-230	220	C-730-S, B-570 and B-970*
SD-1003W	910	Dice	26-1/2	30	24-1/2	208-230	222	
SD-1092N	850	Dice	26-1/2	30	24-1/2	208-230	213	
SY-1004A	830	Half-Dice	26-1/2	30	24-1/2	208-230	224	
SY-1005W	910	Half-Dice	26-1/2	30	24-1/2	208-230	226	
SY-1094N	850	Half-Dice	26-1/2	30	24-1/2	208-230	227	

\* K-00370 bin adapter required.

### Ice Machines

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98149	SD-1002A 1060# DICE AIR COOLED ICE MACHINE
1	EA	98150	SD-1003W 1060# DICE WATER COOLED ICE MACHINE
1	EA	98151	SD-1092N 1060# DICE REMOTE COOLED ICE MACHINE
1	EA	98152	SY-1004A 1060# HALF DICE AIR COOLED ICE MACHINE
1	EA	98153	SY-1005W 1060# HALF DICE WATER COOLED ICE MACHINE
1	EA	98154	SY-1094N 1060# HALF DICE REMOTE COOLED ICE MACHINE

### Condenser for use with SY-1094N and SD-1092N for Remote Condensing Operation

1	EA	98201	JC-0895 S-600, 850, 1000 SERIES REMOTE AIR COOLED CONDENSING UNIT
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Call your local G.W. Berkheimer representative for pricing and availability.

## **Manitowoc S-1200 Series Ice Machines**



- Stainless steel exterior with the fit and finish of an appliance
- Food zone designed with soft, round, cove corners
- Select components made with AlphaSan anti-microbial
- Patented cleaning and sanitizing technology
- 5-year parts and 5-year labor coverage on ice machine evaporator
- 5-year parts and 3-year labor coverage on ice machine compressor
- 3-year parts and labor coverage on all other ice machine, dispenser, and storage bin components
- Energy Miser

S-1200 on B-570 Bin

Model	Pounds/Day	Cube Size	Height (In.)	Width (In.)	Depth (In.)	Voltage	Weight (Lbs.)	Compatible Ice Storage Bin
SD-1202A	1,010	Dice	29-1/2	30	24-1/2	208-230	245	B-570, B-970* and C-730
SD-1203W	1,120	Dice	29-1/2	30	24-1/2	208-230	246	
SY-1204A	1,010	Half-Dice	29-1/2	30	24-1/2	208-230	242	
SY-1205W	1,120	Half-Dice	29-1/2	30	24-1/2	208-230	245	

\* K-00370 bin adapter required.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98155	SD-1202A 1230# DICE AIR COOLED ICE MACHINE
1	EA	98156	SD-1203W 1230# DICE WATER COOLED ICE MACHINE
1	EA	98157	SY-1204A 1230# HALF DICE AIR COOLED ICE MACHINE
1	EA	98158	SY-1205W 1230# HALF DICE WATER COOLED ICE MACHINE

Call your local G.W. Berkheimer representative for pricing and availability.



**Manitowoc S-1400 Series Ice Machine**



- Stainless steel exterior with the fit and finish of an appliance
- Food zone designed with soft, round, cove corners
- Select components made with AlphaSan anti-microbial
- Patented cleaning and sanitizing technology
- 5-year parts and 5-year labor coverage on ice machine evaporator
- 5-year parts and 3-year labor coverage on ice machine compressor
- 3-year parts and labor coverage on all other ice machine, dispenser, and storage bin components
- Energy Miser

S-1400 on B-970 Bin

Model	Pounds/Day	Cube Size	Height (In.)	Width (In.)	Depth (In.)	Voltage	Weight (Lbs.)	Compatible Ice Storage Bin
SD-1402A	1160	Dice	26-1/2	48	24-1/2	208-230	292	B-970
SD-1403W	1300	Dice	26-1/2	48	24-1/2	208-230	298	
SD-1492N	1210	Dice	26-1/2	48	24-1/2	208-230	293	
SY-1404A	1160	Half-Dice	26-1/2	48	24-1/2	208-230	292	
SY-1405W	1300	Half-Dice	26-1/2	48	24-1/2	208-230	298	
SY-1494N	1210	Half-Dice	26-1/2	48	24-1/2	208-230	293	

**Ice Machines**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98159	SD-1402A 1450# DICE COOLED ICE MACHINE
1	EA	98160	SD-1403W 1450# DICE WATER COOLED ICE MACHINE
1	EA	98161	SD-1492N 1450# DICE REMOTE COOLED ICE MACHINE
1	EA	98162	SY-1404A 1450# HALF DICE AIR COOLED ICE MACHINE
1	EA	98163	SY-1405W 1450# HALF DICE WATER COOLED ICE MACHINE
1	EA	98164	SY-1494N 1450# HALF DICE REMOTE COOLED ICE MACHINE

**Condenser for use with SD-1492N and SY-1494N for Remote Condensing Operation**

1	EA	98202	JC-1395 S-1400 1600, 1800 SERIES REMOTE AIR COOLED CONDENSING UNIT
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Call your local G.W. Berkheimer representative for pricing and availability.

**Manitowoc QM Series Ice Machines**

- Attractive stainless steel cabinet with euro-design
- Easy access door, slides up and out of way
- Patented cleaning and sanitizing technology
- Front air intake and exhaust
- CFC-free R-134A refrigerant
- 3-year parts and labor warranty



Model No.	Pounds/Day	Cube Size	Height (In.)	Width (In.)	Depth (In.)	Voltage	Weight (Lbs.)
QM-30A	52	Dice	30	19-2/3	22-1/3	115	109
QM-45A	65	Dice	30	19-2/3	22-1/3	115	114

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98101	QM-30A 65# DICE UNDERCOUNTER CUBER
1	EA	98102	QM-45A 95# DICE UNDERCOUNTER CUBER

Call your local G.W. Berkheimer representative for pricing and availability.

## **Manitowoc Q-130 Series Ice Machines**



- Patented cleaning and sanitizing technology
- Slide up and in bin door tucks under ice machine top cover
- Patented ice damper maximizes ice storage capacity
- Stainless steel exterior with the fit and finish of an appliance
- 5-year parts and 5-year labor coverage on ice machine evaporator
- 5-year parts and 3-year labor coverage on ice machine compressor
- 3-year parts and labor coverage on all other components

Model No.	Pounds/Day	Cube Size	Height (In.)	Width (In.)	Depth (In.)	Voltage	Ice Storage Capacity (Lbs.)	Weight (Lbs.)
QD-0132A	90	Dice	38-1/2	26	26-1/2	115	80	153
QD-0133W	123	Dice	38-1/2	26	26-1/2	115	80	153
QY-0134A	90	Half-Dice	38-1/2	26	26-1/2	115	80	153
QY-0135W	123	Half-Dice	38-1/2	26	26-1/2	115	80	153

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98103	QD-0132A 147# DICE AIR COOLED ICE MACHINE
1	EA	98104	QD-0133W 147# DICE WATER COOLED ICE MACHINE
1	EA	98105	QY-0134A 147# HALF DICE AIR COOLED ICE MACHINE
1	EA	98106	QY-0135W 147# HAL DICE WATER COOLED ICE MACHINE

Call your local G.W. Berkheimer representative for pricing and availability.

## **Manitowoc Q-210 Series Ice Machines**



- Patented cleaning and sanitizing technology
- Slide up and in bin door tucks under ice machine top cover
- Patented ice damper maximizes ice storage capacity
- Stainless steel exterior with the fit and finish of an appliance
- 5-year parts and 5-year labor coverage on ice machine evaporator
- 5-year parts and 3-year labor coverage on ice machine compressor
- 3-year parts and labor coverage on all other components

Model No.	Pounds/Day	Cube Size	Height (In.)	Width (In.)	Depth (In.)	Voltage	Ice Storage Capacity (Lbs.)	Weight (Lbs.)
QD-0212A	155	Dice	38-1/2	26	26-1/2	115	80	157
QD-0213W	190	Dice	38-1/2	26	26-1/2	115	80	160
QY-0214A	155	Half-Dice	38-1/2	26	26-1/2	115	80	159
QY-0215W	190	Half-Dice	38-1/2	26	26-1/2	115	80	159

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98107	QD-0212A 220# DICE AIR COOLED ICE MACHINE
1	EA	98108	QD-0213W 220# DICE WATER COOLED ICE MACHINE
1	EA	98109	QY-0214A 220# HALF DICE AIR COOLED ICE MACHINE
1	EA	98110	QY-0215W 220# HALF DICE WATER COOLED ICE MACHINE

Call your local G.W. Berkheimer representative for pricing and availability.

**Manitowoc Q-270 Series Ice Machines**



- Patented cleaning and sanitizing technology
- Slide up and in bin door tucks under ice machine top cover
- Patented ice damper maximizes ice storage capacity
- Stainless steel exterior with the fit and finish of an appliance
- 5-year parts and 5-year labor coverage on ice machine evaporator
- 5-year parts and 3-year labor coverage on ice machine compressor
- 3-year parts and labor coverage on all other ice machine, dispenser, and storage bin components
- Energy Miser

Model No.	Pounds/Day	Cube Size	Height (In.)	Width (In.)	Depth (In.)	Voltage	Ice Storage Capacity (Lbs.)	Weight (Lbs.)
QD-0272A	215	Dice	38-1/2	30	28-4/25	115	100	208
QD-0273W	245	Dice	38-1/2	30	28-4/25	115	100	211
QY-0274A	215	Half-Dice	38-1/2	30	28-4/25	115	100	209
QY-0275W	245	Half-Dice	38-1/2	30	28-4/25	115	100	211

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98111	QD-0272A 290# DICE AIR COOLED ICE MACHINE
1	EA	98112	QD-0273W 290# DICE WATER COOLED ICE MACHINE
1	EA	98113	QY-0274A 290# HALF DICE AIR COOLED ICE MACHINE
1	EA	98114	QY-0275W 290# HALF DICE WATER COOLED ICE MACHINE

Call your local G.W. Berkheimer representative for pricing and availability.

**Manitowoc Q-400 Undercounter Flake Ice Machines**



- Split collar evaporator support with shaft coupling ensures longer water seal and bearing life
- Patented cleaning technology
- Stainless steel exterior with the fit and finish of an appliance.
- 2-year parts and labor coverage on all components. Additional 3-year parts coverage on ice machine compressor.

Model No.	Pounds/Day	Cube Size	Height (In.)	Width (In.)	Depth (In.)	Voltage	Ice Storage Capacity (Lbs.)	Weight (Lbs.)
QF-0406A	395	Flake	38-1/2	26	26-1/2	115	60	183

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98190	QF-0406A 395# FLAKER ICE MACHINE

Call your local G.W. Berkheimer representative for pricing and availability.

## **Manitowoc QuietQube® Remote Ice Machines**



- Quiet operation eliminates most noise from the refrigeration system.
- Patented CVD technology improves reliability and extends life of the compressor
- Stainless steel exterior with the fit and finish of an appliance, enhances the display in any self-serve environment
- Patented cleaning and sanitizing technology
- 5-year parts and 5-year labor coverage on ice machine evaporator
- 5-year parts and 3-year labor coverage on ice machine compressor
- 3-year parts and labor coverage on all other ice machine, dispenser, and storage bin components.

Model No.	Pounds/Day	Cube Size	Height (In.)	Width (In.)	Depth (In.)	Voltage	Weight (Lbs.)
SD-0872C	690	Dice	26-1/2	30	24-1/2	115	154
SY-0874C	690	Half-Dice	26-1/2	30	24-1/2	115	157
SD-1072C	800	Dice	26-1/2	30	24-1/2	115	159
SY-1074C	850	Half-Dice	26-1/2	30	24-1/2	115	163
SY-1474C	1,235	Half-Dice	25	30	24-1/2	115	179

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98167	SD-0872C 770# DICE QUIETCUBE ICE MACHINE
1	EA	98168	SY-0874C 770# HALF DICE QUIETCUBE ICE MACHINE
1	EA	98169	SD-1072C 990# DICE QUIETCUBE ICE MACHINE
1	EA	98170	SY-1074C 990# HALF DICE QUIETCUBE ICE MACHINE
1	EA	98171	SY-1474C 1400# HALF DICE QUIETCUBE ICE MACHINE

Call your local G.W. Berkheimer representative for pricing and availability.

## **Manitowoc 800C Series Ice/Beverage Machine**



- Stainless steel exterior with fit and finish of an appliance enhances any self-serve environment
- Patented built-in cleaning and sanitizing technology
- CVD technology improves reliability and extends life of the compressor
- 5-year parts and 5-year labor coverage on ice machine evaporator
- 5-year parts and 3-year labor coverage on ice machine compressor
- 3-year parts-and-labor coverage on all other ice machine components

Model No.	Pounds/Day	Cube Size	Height (In.)	Width (In.)	Depth (In.)	Voltage
IB-0824YC	680	Half-Dice	26-1/2	22	14	115

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98172	IB-0824YC 760# HALF DICE ICE BEVERAGE MACHINE

Call your local G.W. Berkheimer representative for pricing and availability.

## **Manitowoc CVD Remote Condensing Units**



CVD (Cool Vapor Defrost) is a different type of ice harvest system that allows the compressor to be moved out of the customer environment.

Standard remote condenser ice machines all use compressor hot gas systems to heat the evaporator during their ice harvest cycles. To make hot gas systems work, the compressor must be as physically close to the ice making evaporator as possible.

Manitowoc CVD ice machines use vapor refrigerant from the receiver tank to harvest the ice. The receiver tank is a refrigerant storage tank typically used on all remote ice machines and can be a source of vapor refrigerant for a harvest cycle if the system is configured correctly.

CVD systems all use large capacity refrigerant accumulators for maximum compressor protection under any operating condition.

**Voltage:** 208-230

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98204	CVD-0885 QUIETCUBE SERIES CONDENSING UNIT
1	EA	98205	CVD-1485 QUIETCUBE SERIES CONDENSING UNIT

Call your local G.W. Berkheimer representative for pricing and availability.

## **Manitowoc B-Style Ice Storage Bins**



Stainless steel exterior is durable, corrosion-resistant, and attractive. One set of stainless steel legs included in bin price for B-series bin. Height includes bin legs set at 6 inches. Legs adjust from 6 to 7-3/4 inches.

Model No.	Storage Capacity		Use With	Ship Weight (Lbs.)	Height (In.)	Width (In.)	Depth (In.)
	ARI/Lbs.	Cubic Ft.					
B-170	150	6.1	300, 450, 500	68	25	30	29-1/2
B-320	210	8.9	322, 422	84	38	22	34
B-400	290	12.3	300, 450, 500, 600, 850, 1000, 1200	98	38	30	34
B-420	310	12.9	322, 422	104	50	22	34
B-570	430	17.9	300, 450, 500, 600, 850, 1000, 1200	122	50	30	34
B-970	710	29.7	1400C, 1600, 1800	168	50	48	34

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98173	B-170 180# CAPACITY ICE STORAGE BIN
1	EA	98174	B-320 210# CAPACITY ICE STORAGE BIN
1	EA	98175	B-400 290# CAPACITY ICE STORAGE BIN
1	EA	98176	B-420 310# CAPACITY ICE STORAGE BIN
1	EA	98177	B-570 430# CAPACITY ICE STORAGE BIN
1	EA	98178	B-970 710# CAPACITY ICE STORAGE BIN

Call your local G.W. Berkheimer representative for pricing and availability.

## **Manitowoc C-Style Ice Storage Bins**



Gray painted 6 inch legs included, adjustable from 6 to 7 inches. Liner will not rust, dent, chip, crack or discolor.

Model No.	ARI/Lbs.	Ship Weight (Lbs.)	Height (In.)	Width (In.)	Depth (In.)
C-730-S	560	155	46	42	31-1/2

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98179	C-730-S 560# CAPACITY STAINLESS STEEL ICE STORAGE BIN

Call your local G.W. Berkheimer representative for pricing and availability.

## **Manitowoc SFA/SPA Series Ice Dispensers**



S-Series 422 Ice Machine on SFA-191 Ice Dispenser

- Patented rocking chute dispense mechanism reduces in-flight ice and ice spillage with quick on/off activation
- Oversized drain pan collects larger quantity of ice overflow
- Efficient built-in agitator assures 100% dispensing
- Polyethylene bin liner and polyurethane insulation store ice longer
- SFA Models feature built-in water valve
- 5-year parts and 5-year labor coverage on ice machine evaporator
- 5-year parts and 3-year labor coverage on ice machine compressor
- 3-year parts and labor coverage on all other ice machine and dispenser components

Model No.	Ice Storage Capacity (Lbs.)	Height (In.)	Width (In.)	Depth (In.)	Voltage	Compatible Ice Machine
SFA-191	120	54	22	31	115	S-322 or S-422
SFA-291	180	60-1/2	30	32	115	S-450, S-500 or S-600
SPA-160	120	54	22	31	115	S-322 or S-422
SPA-310	180	60-1/2	30	32	115	S-450, S-500 or S-600

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98192	SFA-191 120# STAINLESS STEEL ICE DISPENSER
1	EA	98193	SFA-291 180# STAINLESS STEEL ICE DISPENSER
1	EA	98194	SPA-160 120# STAINLESS STEEL ICE DISPENSER
1	EA	98195	SPA-310 180# STAINLESS STEEL ICE DISPENSER

Call your local G.W. Berkheimer representative for pricing and availability.

**Manitowoc Line Sets**

Ice Machine	Line Set	Suction Line Size	Liquid Line Size
S-500, S-600, S-850, S-1000	RT 20 30 50	1/2	5/16
S-1400, S-1600, S-1800, Q-1800	RL 20 35 50	1/2	3/8
S-600C, S-850C, S-1000C, IB-600C, IB-800C, IB-1000C, Q-800C, SF-900C, SF-1200C, SF-2000C, SN-950C, SN-1250C, SN-2050C	RC 21 31 51	5/8	3/8
Q-1000C, Q-1400C, S-1200C, S-1470C, S-1870C, S-2070C, SU-1000C, IB-1000C	RC 20 30 50	3/4	1/2

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98210	RT-20-R-404A 500, 600, 850, 1000 SERIES 20FT LINE-SET
1	EA	98211	RT-35-R-404A 500, 600, 850, 1000 SERIES 35FT LINE-SET
1	EA	98212	RT-50-R-404A 500, 600, 850, 1000 SERIES 50FT LINE-SET
1	EA	98213	RL-20-R-404A 500, 600, 850, 1000 SERIES 20FT LINE-SET
1	EA	98214	RL-35-R-404A 500, 600, 850, 1000 SERIES 35FT LINE-SET
1	EA	98215	RL-50-R-404A 500, 600, 850, 1000 SERIES 50FT LINE-SET
1	EA	98218	RC-20 QUIETCUBE SERIES 20 LINE-SET
1	EA	98219	RC-21 QUIETCUBE SERIES 20 LINE SET
1	EA	98220	RC-30 QUIETCUBE SERIES 30 LINESET
1	EA	98221	RC-31 QUIETCUBE SERIES 30 LINESET
1	EA	98222	RC-50 QUIETCUBE SERIES 50 LINE-SET
1	EA	98223	RC-51 QUIETCUBE SERIES 50 LINE-SET

Call your local G.W. Berkheimer representative for pricing and availability.

**Manitowoc AuCS Automatic Cleaning System**



The AuCS accessory virtually eliminates routine maintenance. It counts the number of ice-making cycles and, at a frequency you select, initiates a cleaning or sanitizing cycle automatically. Choose from 2, 4 or 12-week settings.

- The AuCS-SO accessory can be used only on S-300, S-322, S-422 and IB series ice machines. This option is installed on the outside of the machine.
- The AuCS-SI accessory can be used only on S-450, 500, 600, 850, 1000, 1200, 1400, 1600 and 1800 series ice machines. This option is installed on the inside of the machine.
- The AuCS-A accessory can be used only on series Q280 through Q1800 and Q-Dual.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98230	AUCS-SI-271 230 VOLT AUTOMATIC CLEANING SYSTEM
1	EA	98231	AUCS-SO-161 115 VOLT AUTOMATIC CLEANING SYSTEM
1	EA	98232	AUCS-SO-271 230 VOLT AUTOMATIC CLEAN
1	EA	98233	AUCSA-161 115 VOLT AUTOMATIC CLEAN

Call your local G.W. Berkheimer representative for pricing and availability.

## **Manitowoc Filtration and Cleaning Accessories**



### **Guardian**

The Guardian Slime Inhibitor accessory releases chlorine dioxide on a controlled basis to inhibit the growth of bacteria and fungi that form slime and cause odors in the food zone of ice machines.

The Guardian Slime Inhibitor can be used on the S-Series 300, 322, 422, 450, 500, 600, 850, 1000, 1200, 1400, 1600 and 1800 ice machine models.

### **Arctic Pure Water Filters**

Arctic Pure reduces chlorine taste and odor. It has a built-in scale inhibitor and a graded density carbon block filter.

The **AR-PRE** model is a pre-filter and reduces dust and rust sediment. It can be used with all ice machine models.

- The **AR 10000** can be used on the QM30 and 45, Q-130, 210 and 270, S-300 through S-600, IB-600, QF-400, SF-400, 600 and 900 and the SN-450, 650 and 950 ice machine models. It has a 14,000 gallon capacity and 0-600 pounds of ice per day.
- The **AR 20000** can be used on the S-850, S-1000, IB-800 and IB-1000 ice machine models. It has a 20,000 gallon capacity and 601-1000 pounds of ice per day.
- The **AR 4000** can be used on the S-1200, 1400, 1600 and 1800, SF-1200 and 2000, SN-1250 and 2050 and the S-1470C, 1870C and 2070C ice machine models. It has a 40,000 gallon capacity and 1,001-2,500 pounds of ice per day.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98234	GSI200 GUARDIAN SLIME INHIBITOR
6	BOX	98249	K-00206 REPLACEMENT SACHET FOR GSI200, 6/BOX
12	EA	98251	K-00338 ARCTIC PURE 10000 REPLACEMENT FILTER CARTRIDGE
6	PKG	98252	K-00339 ARCTIC PURE 20000/40000 REPLACEMENT FILTER CARTRIDGE
12	EA	98258	K-00374 ARCTIC PURE AR-2800 REPLACEMENT FILTER CARTRIDGE
12	PKG	98260	K-00337 ARCTIC PURE AR-PRE REPLACEMENT FILTER CARTRIDGE

Call your local G.W. Berkheimer representative for pricing and availability.

## **Manitowoc Accessories and Kits**

### **Bin Adapter Kits**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	98255	K-00365 22IN Q OR S TO 30IN DISPENSER BIN ADAPTER
1	EA	98257	K-00370 Q OR S ICE MACHINE TO 48IN B/S-970 BIN ADAPTER KIT

### **Drain Pump Kit**

1	EA	98259	K-00376 SM-50A 12IN RISE 100 FT DRAIN PUMP KIT
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### **Ice Bagger Kit**

1	EA	98236	K-00068 1000 COUNT REPLACEMENT ICE BAG KIT
1	EA	98244	K-00146 ICE BAGGER W/ BAGS AND TIES

### **Ice Deflector Kits**

1	EA	98253	K-00347 30IN F-STYLE BIN ICE DEFLECTOR
1	EA	98254	K-00349 48IN F-STYLE BIN ICE DEFLECTOR

### **Remote Coupling Kit**

1	EA	98216	K-00129 REMOTE COUPLING KIT
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### **Optional Components**

1	EA	98180	K-00346 DISPENSER BAFFLE KIT
1	EA	98217	K-00166 S-STRAP KIT FOR CV
1	EA	98238	K-00137 STAINLESS STEEL FLANGE FOOT
1	EA	98239	K-00138 CASTER KIT
1	EA	98243	K-00144 UNDERCOUNTER AND B-400 BIN 12IN ADJUSTABLE FLANGE
1	EA	98245	K-00151 6IN ADJUSTABLE FLANGE
1	EA	98250	K-00209 DISPENSER THERMOSTAT KIT

Call your local G.W. Berkheimer representative for pricing and availability.





### BI-98B Compact Ice Maker

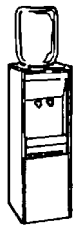


For home, office, motel. Cubes when and where you want them. Produces 23 pounds per day (1050 cubes). The storage bin holds 1050 cubes. Compact size: 27-3/8" H x 14-13/16" W x 20" D. Black. No drain required. One year limited warranty on parts and labor, five year parts only warranty on the compressor.

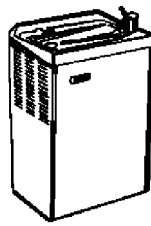
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	95886	BI-98B ICE MAKER-BLACK	—



### Water Coolers



BPE1SHS



P8M



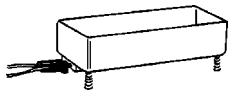
P10CP

Cold Water Capacity	Hot Water Capacity	Dimensions H x W x D (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
0.6	45 Cups/Hr.	38-1/2 x 12-1/4 x 12-1/4	1	EA	96485	BPD1SHS HOT-N-COLD BTLD WTR COOLER	—
0.6	N/A	38-1/2 x 12-1/4 x 12-1/4	1	EA	96486	BPE1SK BTLD WTR COOLER	—
8	N/A	26 x 17 x 14	1	EA	96497	P8M ON-A-WALL WTR COOLER	—
10	N/A	40 x 12 x 12	1	EA	96490	P10CP FREE-STANDING WTR COOLER	—
8	N/A	40 x 17 x 14	1	EA	96495	PLF8FAH AGAINST-A-WALL OR FREE-STANDING WTR COOLER	—



### Condensate Drain Pans

With Heater Element, Cast Aluminum Construction, Four Mounting Legs



30-OS



75

Model No.	Voltage	Evaporation Rate	Capacity	Watts	Size
30-OS	120	8 oz./hr.	38 oz.	160	10 x 4 x 2-7/8
75	120	14 oz./hr.	75 oz.	320	10 x 9 x 2-3/4

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94853	30-OS CONDENSATE DRAIN PAN	—
1	EA	94854	75 CONDENSATE DRAIN PAN	—



## Bullet Restricto Cap Tubing

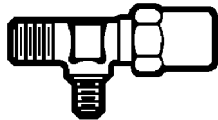
Fits any domestic and commercial refrigerator or room air conditioner  
1/8 HP to 5 HP.



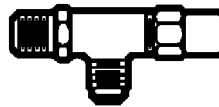
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	94872	BC-1 .081OD X .031ID CAP TUBE	—
1	EA	94873	BC-2 .093OD X .040ID CAP TUBE	—
10	EA	94874	BC-3 .093OD X .052ID CAP TUBE	—
1	EA	94875	BC-4 .125OD X .064ID CAP TUBE 12 FT	—
10	EA	94876	BC-5 .071OD X .028ID CAP TUBE	—



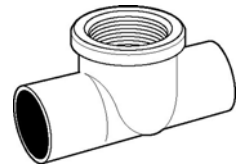
## Packed Angle Relief Valve



Angle



Angle (Backseating)



WT602

### Non-Backseating Angle Relief Valve

Size	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
3/8 MPT x 3/8 Flare	1	EA	93338	A13503 RECEIVER VALVE	—

### Backseating Angle Relief Valve

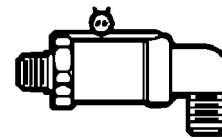
1/2 MPT x 5/8 Flare	1	EA	93344	A 13220 RECEIVER VALVE	—
1/2 MPT x 1/2 Flare	1	EA	93346	A 13183 RECEIVER VALVE	—

### WT602 Forged Tee C x C x F

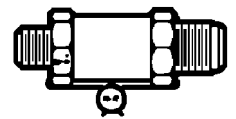
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-99	PC-2 100
25	EA	54375	WT602 3/8X3/8X1/4 FPT TEE FORGED BRASS	—	—



## Pressure Relief Valves



Angle MPT to Flare



Straight Through MPT to Flare

### Angle 235 & 400 Lb. MPT Inlet to Flare

Size	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
3/8 MPT x 3/8 Flare	1	EA	93358	AH 15512-400 ANGLE RELIEF VALVE	—
1/2 MPT x 5/8 Flare	1	EA	93363	AD 15514-235 ANGLE RELIEF VALVE	—
1/2 MPT x 5/8 Flare	1	EA	93364	AH 15514-400 ANGLE RELIEF VALVE	—

### Straight Through 235 & 400 Lb. MPT Inlet to Flare

1/4 MPT x 3/8 Flare	1	EA	93370	AD 15501-235 STRT RELIEF VALVE	—
1/4 MPT x 3/8 Flare	1	EA	93371	AH 15501-400 STRT RELIEF VALVE	—
3/8 MPT x 3/8 Flare	1	EA	93372	AD 15502-235 STRT RELIEF VALVE	—
3/8 MPT x 1/2 Flare	1	EA	93374	AD 15503-235 STRT RELIEF VALVE	—

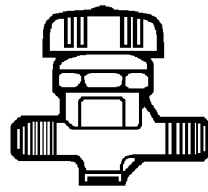
### 450 Lb. Relief Valve MPT Inlet to Flare (Angle & Straight)

1/4 MPT x 3/8 Flare	1	EA	93380	AJ15501-450 STRT RELIEF VALVE	—
3/8 MPT x 3/8 Flare	1	EA	93381	AJ15502-450 STRT RELIEF VALVE	—
1/4 MPT x 3/8 Flare	1	EA	93383	BJ33746-450 ANGLE RELIEF VALVE	—
3/8 MPT x 3/8 Flare	1	EA	93384	AJ15512-450 ANGLE RELIEF VALVE	—
1/2 MPT x 5/8 Flare	1	EA	93385	AJ15514-450 ANGLE RELIEF VALVE	—

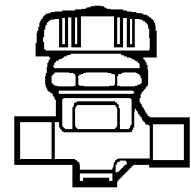


## Packless Line Valves

Frost Proof Type I Series incorporates an "O" ring which prevents moisture from entering the diaphragm chamber, eliminating any possibility of valve freeze-up. All valves have full size openings for maximum flow with minimum restriction. The maximum working pressure is 500 PSI with flow in direction of the arrow on the body and 350 PSI with flow against the arrow.



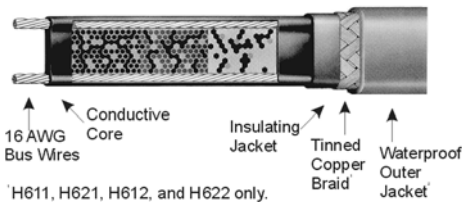
Straight through Flare to Flare Type I



Straight Through Solder to Solder Type I

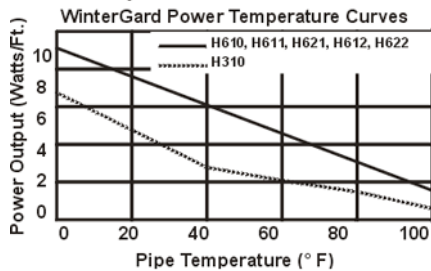
Equivalent to Henry Valve No.	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5154	1	EA	93284	A14836 1/2 IN FLARE 2 WAY VALVE	—
5163	1	EA	93287	A14840 3/8 IN ODS 2 WAY VALVE (QA14840)	—
5164	1	EA	93288	A14841 1/2 IN ODS 2 WAY VALVE (QA14841)	—

## Raychem WinterGard Pipe Heating Cable



H611, H621, H612, and H622 only.  
H612 and H622 only.

### Power Output



### WinterGard

Freeze protection for metal and plastic pipes as well as underground metal pipes.

### WinterGard Plus

Freeze protection for metal and plastic pipe as well as underground metal pipes. Cable made with tinned copper braid for grounding.

### WinterGard Wet

Freeze protection for metal and plastic pipes as well as underground metal pipes. Waterproof outer jacket allows it to be used on pipes in wet areas. Can also be used for roof and gutter deicing. Cable is made with tinned copper braid for grounding.

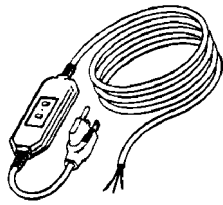
Model No.	"H" Cable Type	Cable Construction*	Voltage	Watts/Ft.**	Reel Length
H311250	WinterGard H311	1	120	3	250
H611250	WinterGard Plus H611	1	120	6	250
H621100	WinterGard Plus H621	1	240	6	100
H621250	WinterGard Plus H621	1	240	6	250
H612250	WinterGard Plus H612	2	120	6	250
H622250	WinterGard Plus H622	2	240	6	250

\*Construction: "1" = braided metal shield only; "2" = waterproof polyolefin outer jacket over metal shield.

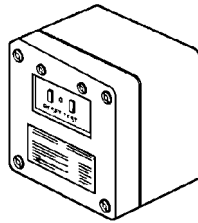
\*\*Watts/Ft. on 40° F metal pipe.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
250	FT	91576	H311250 3WATT 120VOLT WINTERGARD HEATING CABLE	—
250	FT	91577	H621250 6WATT 240VOLT WINTGARD PLUS HEATING CABLE	—
250	FT	91579	H611250 6WATT 120VOLT WINTGARD PLUS HEATING CABLE	—
250	FT	91580	H612250 6WATT 120VOLT WINTGARD WET HEATING CABLE	—
250	FT	91588	H622250 6WATT 240 VOLT WINTGARD WET HEATING CABLE	—

# Raychem Accessories for WinterGard® Heating Cable



H908



H921

### H900 Power Connection

For a hard-wired connection and end seal for one heater circuit.

### H908 Plug-in Power Connection Kit

For use with 120-volt WinterGard® heating cables. Outdoor water resistant 14/3 SJTW-30: cord set and ultrasonically welded water resistant enclosure. Rated 15A 120-volt, 27mA ground-fault trip level. Ensures your heating cable system complies with the National Electrical Code.

### H921 Ground-Fault Protection Junction Box

This 120V unit contains an equipment leakage circuit interrupter that has a 27mA trip level. For use in ordinary areas. Rated NEMA 3 (rain-tight).

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	EA	91584	H900 POWER CONNECTION KIT	—
1	KIT	91585	H908 120V PLUG-IN PWR CONN KIT	—
1	KIT	91599	H912 GEL FILLED END SEAL CAP KIT	—
5	EA	91625	H903 APPLICATIONS TAPE & LABELS	—
5	EA	91626	H904 DOWNSPOUT HANGER FOR #612 & H622	—
5	EA	91628	H910 SPLICE & TEE KIT - WATERPROOF	—

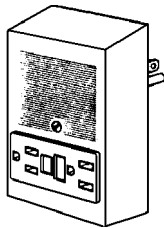
NOTE: H904 for use with H612 and H622.

## Raychem Gardian Pipe Heating Cable

### Pre-assembled Heater for Short Pipe Runs



W51/W52



H931

- The ideal freeze-protection for pipes in unheated attics, basements, and garages. For use with intake and drain lines, water meters, outside pipes, and taps.
- There's no assembly required. Just attach the heater to the pipe, insulate, and plug it in.
- The 240V pre-assembled Gardian heater is easy and convenient for use in refrigeration applications. It prevents freeze-up problems on freezer doors, in drain pans, and drain lines.
- UL Listed

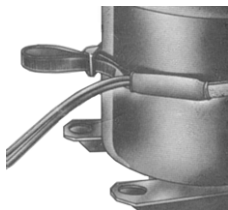
### Specifications

- 2" diameter
- 5 watt
- 120 volt (W51)
- 240 volt (W52)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	91595	W51-6P 6FT PRE-ASSEMBLED HEATER	—
1	EA	91596	W51-12P 12FT PRE-ASSEMBLED HEATER	—
1	EA	91597	W52-6L 6FT 240V PRE-ASSEMBLED HEATER	—
1	EA	91598	W52-12L 12FT PRE-ASSEMBLED HEATER	—

## Raychem FreezGard® Self-Regulating Crankcase Heaters

### for Compressors, UL Listed

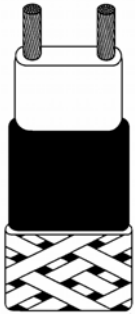


Volts	Power Output at 0° F	Power Output at 60° F	Girth (Wrap Around Dimensions)
120 Vac 240* Vac	60 Watts All Heaters	35 Watts All Heaters	Will fit crankcases with circumferences smaller than 40 in.

\* 208-277V range.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	91589	CCH-1 120V FREEZGARD CRANKCASE HTR	—
1	EA	91590	CCH-2 240V FREEZGARD CRANKCASE HTR	—

# Chromalox® Self-Regulating Low Temp Heating Cable



SRL 8-1C self-regulating heating cable provides safe, reliable heat tracing for freeze protection of pipes, valves, tanks, and similar applications. The 150°F maximum pipe maintenance temperature rating is also suitable for certain process applications. Chromalox SRL 8-1C can be used in hazardous as well as certain mildly corrosive areas.

**Service Voltage:** 120  
**Max. Pipe Maintenance Temp. Power On:** 150° F  
**Max. Intermittent Exposure Temp. Power Off:** 185° F  
**Buss Wire Gauge AWG:** 16  
**Cable Dimension Nominal:** 3/8" x 1/8"  
**Max. Circuit Length:** 210 ft.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	63677	RTPC POWER BOX W/O GROMMET	—
1	RLL	63678	SRL 8-1C 120V 8W 100 FT CABLE	—
1	EA	63721	RTES END SEAL FITTING	—

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## **Group 7 Controls**

### Group 7 Controls

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# Honeywell T8775A, C The Digital Round™ Thermostats

## Non-Programmable, Easy-to-See Models



The T8775A and T8775C thermostats provides single-stage temperature control for 24V systems with manual changeover from heat to cool.

**T8775A** controls 2-wire heating-only systems.

**T8775C** controls gas, oil, or electric heating and cooling systems

- These Easy-to-See models have enlarged scales and raised numbers plus they click at every 2° F change.
- No batteries required. The temperature setting is held permanently in memory in the event of a power failure.
- System and fan switches on the T8775C model.
- Manual changeover from heat to cool on T8775C model.
- Selectable heating cycle rates (1, 3, 6, 9 cph) for a variety of applications.

**Color:** Premier White®

**Terminal Designations:** R, Rc, W, Y, G, O, B.

**Setting Temperature Range:**

40° F to 90° F in heating;

45° F to 99° F in cooling.

**Ambient Temperature Range:**

40° F to 110° F.

**Humidity Ratings:**

5% to 90% RH, non-condensing

**Electrical Ratings:**

24 Vac nominal: 18 Vac to 30 Vac, 60 Hz.

Heating: .02 to 1.5 A run; 3.5A inrush

Cooling: .02 to 1.5A run; 6.0A inrush

**Fan:** .02 to .05A run; 2.5A inrush

**Switch Positions (Fan):** Auto-On.

**Includes:** Wallplate, 4074FAB resistor, mounting hardware.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
25	EA	72873	T8775A1009/U HEAT ONLY DIGITAL ROUND THERMOSTAT - WHITE	—	—
25	EA	72874	T8775C1005/U (1013) H-C DIGITAL ROUND THERMOSTAT - WHITE	—	—
2	EA	72876	50000066-001/U COVER PLATE T87K,N OR T8775	—	—

# Honeywell T87K, N The Round™ Non-Programmable Thermostats



The T87K and T87N thermostats provide single-stage temperature, non-programmable control for 24V systems with manual changeover from heat to cool.

T87K Heat Only works with 2 or 3 wire heat only systems.

The Easy-to-See display has enlarged scale and raised numbers—plus it clicks at every 2° F change.

**Color:** Premier White®

**Terminal Designations for T87K:** R, W, Y

**Terminal Designations for T87N:** R,Rc, W, Y, G, O, B

**Setting Temperature Range:** 40° F to 90° F

**Humidity Ratings:** 5 to 90% RH, non-condensing

**Electrical Ratings:** 18 to 30 Vac

**Switch Type:** Relay

**Includes:** 6 inch cover ring and switch position labels

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	72858	T87N1000/U 1HT 1CL THERMOSTAT	—	—
12	EA	72859	T87N1026/U EASY TO SEE HTG/CLG THERMOSTAT	—	—
12	EA	72860	T87K1007/U HT ONLY THERMOSTAT	—	—
2	EA	72876	50000066-001/U COVER PLATE T87K,N OR T8775	—	—

## Honeywell T498A Electric Heating Thermostat



Provides line voltage control of electric heating systems. Breaks heating circuit on temperature rise, makes on temperature fall. With temperature setting dial in extreme counter-clockwise position it provides single line break (SPST). Includes thermometer and 6" lead wires.

**Temperature Setting Range:** 40 to 80° F  
**Fixed Differential:** 3° F  
**Mounting:** Standard 2" x 4" outlet box or 4" x 4" junction box  
**Dimensions:** 4-9/16" H x 2-7/8" W x 1-15/16" D above mounting plate, 15/16" D below mounting plate  
**Electrical Rating (Resistive):** 22A at 120/208/240/277 Vac  
 U.L. Listed

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	73233	T498A1778/U THERMOSTAT	—	—

## Honeywell T812 Thermostat



For low voltage control of single-stage heating, cooling or heating-cooling systems. New style snap-acting bimetal switch uses no mercury and does not require leveling.

- **Dimensions, Approximate:** 3-1/8" H x 3-1/8" W x 7/8" D
- **Accuracy:** 3° F
- **Mounting:** Square
- **Switch Type:** Snap acting
- **Sensor Element:** Bimetal
- **Color:** Premier white

Model No.	Application	Switch Position		Terminal Designations	Switching Action	Setting Temp Range	Anticipator (heating)	Stages
		System	Fan					
T812C1000*	24 Vac heating and cooling systems	OFF-HEAT-COOL	AUTO-ON	R,W,Y,G	SPDT	50 to 90	0.18A to 1.2A @ 30 Vac	1 Heat/1 Cool

\* Tradeline Model

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73019	T812C1000/U THERMOSTAT WHITE	—	—

## Honeywell T822 Thermostat



For low voltage (24 Vac) control of heating systems. Coiled bimetal element operates dustproof, SPST switch. This thermostat mounts directly on a wall or on a standard vertical outlet box. Setting lever and thermometer scale on thermostat face. Vented cover for improved temperature sensing.

**Approximate Dimensions:** 4-3/4" H x 2-7/8" W x 1-3/8" D  
**Electrical Ratings:** 0.18A to 1.0A at 30 Vac

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
1	EA	73038	T822K1018/U THERMOSTAT	—	—



## Honeywell T834N and T8034N Thermostats



T834N



T8034N

For low voltage control of residential single-stage heating, cooling, or heating/cooling systems.

**T834N 1002:** Mercury free; replaces T834C.

**T8034N 1007:** Mercury free; replaces T8034C.

**Mounting:** 2 screws through base to wall or to horizontal or vertical outlet box.

**Dimensions:**

T834N: 2-7/8" W x 4-3/4" H x 1-5/16" D

T8034N: 4-3/4" W x 2-7/8" H x 1-5/16" D

**Electrical Ratings:**

Heating: 0.18 to 1.0 A at 30 Vac max

Cooling: 1.5 A running, 7.5 A inrush at 25 Vac

**Heat Anticipator:** Adjustable, 0.18 to 1.0 A

**Cooling Anticipator:** Fixed, 24 to 30 Vac

**Fan Switching:** On-Auto

**System Switching:** Heat-Off-Cool

**Mounting:**

T834N: Vertical

T8034N: Horizontal

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
1	EA	73039	T834N1002/U THERMOSTAT	—	—
1	EA	73040	T8034N1007/U THERMOSTAT	—	—

## Honeywell TL8100 Programmable Hydronic Thermostat



**7-Day Programmable:** Up to 4 periods per day to fit any lifestyle and help save energy.

**Precise Comfort:** Maintains consistent comfort to the highest level of accuracy.

**Low Battery Indicator:** Gives 60-day warning to replace batteries.

**Installation Flexibility:** Works with mV, 24V, 120VAC, and 240VAC heating systems. Rated at 5A resistive and 2A inductive load.

**Pump Protection:** Activates zone valves or pumps for one minute every 24 hours to prevent seizures and reduce callbacks.

**Armchair Programming:** Save time on the job with convenient programming by simply removing the faceplate from the base.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73364	TL8100A1008/U 7 DAY PROGRAMMABLE HYDRONIC THERMOSTAT	—	—

## Honeywell Prestige™ HD 2-Wire IAQ Comfort System Thermostat Kits



The Prestige™ HD thermostat provides control of 24 Vac of heating and cooling systems. RedLINK™ enabled to work with compatible wireless accessories

Large, easy-to-read backlit full color display shows current indoor temperature and humidity, temperature setting, date and time on the home screen.

USB port allows downloading of installer settings.

**Setting Temperature Range:** 40 to 90° F depending on heating or cooling mode.

**Humidity Setting Range:** 40 to 80% RH cooling; 10 to 80% RH heating.

**Electrical Range:** 18 to 30 Vac.

**Approximate Dimensions:** 3-9/16" H x 5-13/16" W x 1-1/2" D.

### Kits Include

- 2-wire HD color touchscreen thermostat
- Two duct sensors for diagnostics
- IAQ equipment interface module.

The YTHX9421R5069 kit also includes the wireless outdoor air sensor.

The YTHX9421R5077 kit also includes the wireless outdoor air sensor and the Portable Comfort Control (remote control).

Model No.	Application	Power Method	Stages		Switch Positions		Terminal	Finish
			Heating	Cooling	System	Fan		
YTHX9421R 5051 YTHX9421R 5069 YTHX9421R 5077	Heat-Cool	Hardwired	4 Heat Pump 3 Conventional	2	Heat-Off-Cool-A uto-Em. Heat	Auto-On-Circ	C,R, Rc, W-O/B, W2-AUX/E, Y, Y2, G, L, K, HUM, HUM, DHM, DHM	Arctic White

### Thermostats

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	73388	YTHX9421R5051/U PRESTIGE HD 2-WIRE IAQ COMFORT SYSTEM KIT	—
12	EA	73389	YTHX9421R5069/U PRESTIGE HD 2-WIRE IAQ COMFORT SYSTEM KIT PLUS C7089R	—
12	EA	73390	YTHX9421R5077/U PRESTIGE HD 2-WIRE IAQ COMFORT SYS KIT PLUS REM5000	—

### Accessories

12	EA	73373	50028399-001/U COVER PLATE FOR PRESTIGE	—
12	EA	73374	THP9045A 1007 SAVE A WIRE MODULE	—
12	EA	73399	YTHM5421R1002/U IAQ EQUIPMENT INTERFACE MODULE	—
12	EA	73400	THM6000R1002/U REDLINK ENABLED INTERNET GATEWAY	—

## Honeywell PRO 1000 Non-Programmable Thermostat



**Dual-Powered:** Battery and/or hardwire.  
**Clear, backlit digital display:** Easy to read in various lighting conditions.  
 2-Year warranty

**TH1110D1000:** 1 heat/1 cool, non-programmable

**TH1210D1008:** 2 heat/1 cool, heat pump, non-programmable

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73358	TH1110D1000/U 1H-1C PRO 1000 NON-PROGRAMMABLE	—	—
12	EA	73360	TH1210D 1008 2H-1C PRO 1000 NON-PROGRAMMABLE HP	—	—

## Honeywell PRO 2000 Programmable Thermostat



**Simple-set programming:** Easy to set heat, cool, fan and program schedule.

**Adaptive intelligence recovery:** Ensures that the programmed temperature is reached by the programmed time.

**Energy savings:** Programmed as directed can save up to 33% on annual heating and cooling costs.

**TH2110D1009:** 1 heat/1 cool, programmable

**TH2210D1007:** 2 heat/1 cool, heat pump, programmable

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73359	TH2110D1009/U 1H-1C PRO 2000 PROGRAMMABLE	—	—
12	EA	73361	TH2210D 1007 2H-1C PRO 2000 PROGRAMMABLE HP	—	—

## Honeywell PRO 3000 Basic Non-Programmable Thermostat



- Simultaneous set and room temperature display
- Backlit display
- Heat On indication
- Cool On indication
- Battery Powered
- Millivolt compatible
- System and fan switch
- Single stage heat pump
- Compressor protection in cooling
- Compressor protection in heating (heat pump)
- 2 year warranty

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73341	TH3110D1008/U 1H-1C FOCUS PRO THERMOSTAT BACKLIT DISPLAY WH	—	—

## Honeywell PRO 4000 5-2 Day Programmable Thermostats



- Simultaneous set and room temperature display
- Backlit display
- System and fan switch
- Heat On indication
- Cool On indication
- Millivolt compatible
- Battery powered.
- Single stage heat pump
- Compressor protection in cooling
- Compressor protection in heating (heat pump)
- 2 year warranty

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73340	TH4110D1007/U 1H-1C FOCUS PRO THERMOSTAT BACKLIT DISPLAY WH	—	—

# Honeywell Wireless FocusPRO™ Thermostat Systems



## Features

- Powered by RedLINK™ reliability
- Displays outdoor temperature and humidity
- 2 month low battery warning
- 1 year battery life

**Stages:** Up to 3 heat/2 cool heat pump or up to 2 heat/2 cool conventional

**Application:** Gas, oil, electric, heat pump, forced warm air, hot water, steam or gravity

**Switch Positions (System):**

Heat-Off-Cool-Auto-Em.Heat

**Switch Positions (Fan):** Auto-On

## Kits Include:

**YTH5320R 1000 kit** includes non-programmable TH5320R, equipment interface module, and return air sensor.

**YTH5320R 1017 kit** includes non-programmable TH5320R, equipment interface module, return air sensor, portable comfort control, and wireless outdoor sensor.

**YTH5320R 1025 kit** includes non-programmable TH5320R and wireless adapter.

**YTH6320R 1001 kit** includes programmable TH6320R, equipment interface module, and return air sensor.

**YTH6320R 1015 kit** includes programmable TH6320R, equipment interface module, return air sensor, portable comfort control, and wireless outdoor sensor.

**YTH6320R 1023 kit** includes programmable TH6320R and wireless adapter.

## Thermostats

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	73380	YTH6320R1015/U WIRELESS FOCUSPRO SYSTEM KIT	—
12	EA	73381	YTH6320R1001/U WIRELESS FOCUSPRO THERMOSTAT KIT	—
12	EA	73382	YTH5320R 1017 WIRELESS FOCUSPRO SYSTEM KIT	—
12	EA	73383	YTH5320R1000/U WIRELESS FOCUSPRO THERMOSTAT KIT	—
12	EA	73384	TH6320R1004/U PROGRAMMABLE WIRELESS FOCUSPRO THERMSTAT	—
12	EA	73385	TH5320R 1002 NON-PROGRAMMABLE WIRELESS FOCUSPRO THERMOSTAT	—
12	EA	73386	YTH6320R1023/U WIRELESS ZONING ADAPTER KIT	—
12	EA	73387	YTH5320R 1025 WIRELESS ZONING ADAPTER KIT	—
12	EA	73404	YTH6320R1114/U WIRELESS FOCUSPRO AND REDLINK GATEWAY	—

## Accessories

12	EA	73391	C7089R1013/U WIRELESS OUTDOOR SENSOR	—
12	EA	73392	THM4000R1000/U WIRELESS ADAPTER	—
12	EA	73393	THM5320R1000/U WIRELESS EQUIPMENT INTERFACE MODULE	—
12	EA	73394	REM5000R1001/U WIRELESS PORTABLE COMFORT CONTROL	—
12	EA	73406	C7189R1004/U WIRELESS INDOOR SENSOR	—

# Honeywell FocusPRO™ 5000 Digital Non-Programmable Thermostats



- Simultaneous set and room temperature display
- Backlit display
- Dual powered (battery and hardwire)
- Auto changeover manual, auto or auto-only (selectable)
- Millivolt compatible
- Configurable to heat only
- Configurable to cool only
- Single-stage heat pump
- Compressor protection in cooling
- Compressor protection in heating (heat pump)
- Series 20 compatible (power open/power close hot water zone valves)
- Compatible with normally open and normally closed hot water zone valves
- 5 year warranty

## Thermostats

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73312	TH5110D1006/U 1H-1C FOCUS PRO NON-PROG THERMOSTAT WHITE	—	—
12	EA	73313	TH5110D1022/U 1H-1C FOCUS PRO NON-PROG THERMOSTAT LARGE DISPLAY WHITE	—	—
12	EA	73321	TH5220D1029/U 2H-2C FOCUS PRO THERMOSTAT LARGE DISPLAY WHITE	—	—
12	EA	73322	TH5220D1003/U 2H-2C FOCUS PRO THERMOSTAT WHITE	—	—
12	EA	73366	TH5320U1001/U 3 HEAT 2 COOL NON PROGRAMMABLE THERMOSTAT	—	—

## Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
2	EA	73314	50001137-001/U COVER PLATE F/FOCUS PRO	—
1	PKG	73329	50007297-001/U BULK PACK 12 PER PACK BACK PLATE FOR TH5110	—
1	EA	73339	50002883-001/U COVER PLATE ASSY FOR TH3000, 4000, 5000, 6000 STATS	—

# Honeywell FocusPRO™ 6000 5-1-1 Day Programmable Thermostats



- Simultaneous set and room temperature display
- Backlit display
- Dual powered (battery and hardwire)
- Auto changeover: manual, auto or auto-only (selectable)
- Millivolt compatible
- Adaptive intelligent recovery
- Configurable to heat only
- Configurable to cool only
- Single stage heat pump
- Compressor protection in cooling
- Compressor protection in heating (heat pump)
- Series 20 compatible (power open/power close hot water zone valves)
- Compatible with normally open and normally closed hot water zone valves
- 5 year warranty

## Thermostats

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73317	TH6110D1021/U 1H-1C FOCUS PRO THERMOSTAT LARGE DISPLAY WHITE	—	—
12	EA	73318	TH6110D1005/U 1H-1C FOCUS PRO THERMOSTAT WHITE	—	—
12	EA	73319	TH6220D1028/U 2H-2C FOCUS PRO THERMOSTAT LARGE DISPLAY WHITE	—	—
12	EA	73320	TH6220D1002/U 2H-2C FOCUS PRO THERMOSTAT WHITE	—	—
12	EA	73367	TH6320U1000/U 3 HEAT 2 COOL PROGRAMMABLE THERMOSTAT	—	—

## Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	73339	50002883-001/U COVER PLATE ASSY FOR TH3000, 4000, 5000, 6000 STATS	—

# Honeywell VisionPRO™ 8000 Thermostats

## with Touchscreen Programming



**TH8110U,  
TH8320U, TH8321U**



**C7089U**



**C7189A**

- 4 daily periods.
- 7-day programming.
- Dual powered (24Vac and/or battery).
- Universal application flexibility (gas, oil, electric, heat pump, hot water, steam, 750MV).
- Auto changeover or manual changeover.
- Real time clock keeps time during power failures and automatically updates to daylight savings time.
- Field configurable.
- Premier white.

### TH8110U

- 1 Heat/1 Cool

### TH8320U

- 3 Heat/2 Cool

### TH8321U

- 3 Heat/2 Cool

- Dehumidification control

### TH8320WF

- Wi-Fi

Model No.	Power Method	Changeover	System Selection	Fan Selection	Comments
TH8110U	Batteries or common wire	Automatic or manual selectable	Heat-Off-Cool-Auto	On-Auto-Circ	System and Fan selection vary based on system type.
TH8320U	Batteries or common wire		Heat-Off-Cool-Auto (Em.		
TH8320WF	Common Wire		Heat for heat pumps)		
TH8321U	Batteries or common wire				
					System and Fan selection vary based on system type. Humidity sensor to control dehumidification.

### Thermostats

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73310	TH8110U1003/U 1H-1C VISION PRO THERMOSTAT WHITE	—	—
12	EA	73342	TH8320WF1029/U 3H 2C VISION PRO THERMOSTAT WHITE	—	—
12	EA	73311	TH8320U1008/U 3H 2C VISION PRO THERMOSTAT WHITE	—	—
12	EA	73315	TH8321U1006/U 3H 2C W/DEHUMIDITY CTL VISIONPRO THERMOSTAT	—	—

### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	70306	C7089U1006/U OUTDOOR SENSOR F/VISIONPRO	—
12	EA	70307	C7189U1005/U INDOOR SENSOR F/VISIONPRO	—
2	EA	73316	32003796-001/U BACK PLATE F/VISIONPRO TSTATS	—
1	PKG	73329	50007297-001/U BULK PACK 12 PER PACK BACK PLATE FOR TH5110	—
1	PKG	73330	50007298-001/U BULK PACK 12 PER PACK BACK PLATE FOR TH SERIES STAT	—
10	EA	78544	50022037 OUTDOOR SENSOR INTERFACE MODULE	—

## Honeywell Comfort System™ and Accessories



The Comfort system maintains indoor comfort through one control. Thermostat connects with Equipment Interface Module or Zone Panel to control temperature, humidification, dehumidification and ventilation from a central point in the home.

**Touchscreen Interaction:** Easy-to-follow menu-driven operation simplifies programming.

**Energy Savings:** Program to save up to 33% on annual heating and cooling costs.

**Precise Comfort Control (+/-1° F):** Maintains consistent comfort.

**Outdoor Temperature Sensing:** Thermostat has option to display outdoor temperature, which can also be used to provide optimum humidification control.

**Smart Change/Check Reminders:** Lets the homeowner know when to service or replace filters, UV bulbs (based on actual usage and humidifier pads).

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	70306	C7089U1006/U OUTDOOR SENSOR F/VISIONPRO	—
12	EA	70307	C7189U1005/U INDOOR SENSOR F/VISIONPRO	—
12	EA	73344	YTH9421C1002/U VISIONPRO IAQ TOTAL HOME COMFORT SYSTEM	—
1	EA	73347	TH9421C1004/U VISIONPRO IAQ TOTAL HOME COMFORT THERMOSTAT	—

## Aprilaire® 8400 Series Non-Programmable Thermostats



Aprilaire models 8444 and 8446 non-programmable thermostats are mercury-free and provide pinpoint accuracy and control for ultimate comfort. These thermostats contain compact computers providing outstanding energy efficiency.

- Large LCD display for easy reading
- Temperature readout in Fahrenheit or Celsius
- Can display outdoor temperature

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	70076	8446 2H/1C NON-PROGRAMMABLE HEAT PUMP DUAL POWERED THERMOSTAT	—	—
10	EA	70075	8444 1H/1C NON-PROGRAMMABLE DUAL POWERED THERMOSTAT	—	—

## Aprilaire® 8400 Series Programmable Thermostats



The 8400 series programmable thermostats are easy to program and offer a combination of simplicity, value, reliability, comfort and style.

- Easy to use temperature control
- Progressive recovery
- Large LCD screen for easy reading
- Outdoor temperature reading
- Circulate fan mode
- Service reminder

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	70077	8463 1H/1C PROGRAMMABLE DUAL POWERED THERMOSTAT	—	—

## Aprilaire® 8600 Series Programmable Thermostats



Real language, touchscreen programming

- Large 10.3 sq. in. backlit display
- Dual fuel operation
- Built-in dual fuel kit
- Dual power
- Maintenance reminders
- Programmable fan and circulate fan mode

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	70079	8600 UNIVERSAL TOUCH SCREEN THERMOSTAT	—

## Aprilaire® 8910 Series Home Comfort Control



- Large 10.3 sq. in. touch screen
- Integrated indoor air quality solutions
- Humidity control
- Event-based™ air cleaning
- Fresh air ventilation with limits
- Universal system compatibility
- 3 wire design
- Intuitive, simple user interface
- Real language descriptions in set up menus
- Heat Blast™ schedule override
- Service reminders
- Dealer imprint program for battery cover
- 5 year limited warranty

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
8	EA	70080	8910 HOME COMFORT CONTROL	—

## White Rodgers® Big Blue Touchscreen Thermostats 12 Sq. In. Display



- 7 day, 5/1/1 day programmable or non-programmable models
  - Remote sensing indoor or outdoor
  - Programmable fan
  - Choice of battery-powered, hardwired with battery back-up, power stealing
  - Circulator fan cycling
  - Heat pump model includes dual-fuel feature
  - Automatic daylight savings option
  - Energy Star rated
  - +/- 1° F
  - 5-year warranty
- 1F95-1277**
- Single-stage/multi-stage/heat pump
  - 3 heat/2 cool
  - Setpoint Temperature Range: 45 to 99° F
  - Operating Ambient Temperature: 32 to 105° F
- 1F95-1291**
- Single-stage/multi-stage/heat pump
  - 4 heat/2 cool
  - Dehumidification and humidification control
  - Setpoint Temperature Range: 45 to 99° F
  - Operating Ambient Temperature: 32 to 105° F
- 1F97-1277**
- Single-stage
  - 1 heat/1 cool
  - Setpoint Temperature Range: 45 to 99° F
  - Operating Ambient Temperature: 32 to 105° F
- 1F98EZ-1421 and 1F98EZ-1441**
- Easy-to-Install**
- Heat Pump, 4 Heat/2 Cool; Multi-stage 2 heat/2 cool
  - Setpoint Temperature Range: 45 to 99° F
  - Operating Ambient Temperature: 32 to 105° F
  - Universal installer selectable system applications

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6
1	EA	75307	1F95-1277 BLUE UNIVERSAL MULTI STAGE PREMIUM THERMOSTAT	—	—
1	EA	75346	1F97-1277 BLUE UNIVERSAL SINGLE STAGE THERMOSTAT	—	—
1	EA	75757	F61-2600 8-1/8IN W X 5-3/8IN H WALL PLATE FOR BLUE 90 SERIES	—	—
1	EA	75787	1F95-1291 BLUE 7 DAY MULTI-STAGE PROG THERMOSTAT W/HUMIDITY CONTROL	—	—
1	EA	75828	1F98EZ-1421 12IN 4 WIRE EASY INSTALL THERMOSTAT	—	—
1	EA	75829	1F98EZ-1441 12IN 4 WIRE THERMOSTAT W/OUTDOOR REMOTE SENSOR	—	—



**White**  
**Rodgers**

**Remote Sensors for 90 Series Thermostats**  
**Indoor and Outdoor Sensors for Digital Thermostats**



- Digital signal output provides superior temperature control, even over long wire runs.
- No temperature variance caused by wire resistance.
- Perfect for securing the thermostat in one area or room while sensing temperature in the conditioned space.
- Maximum Distance from Thermostat: 300 feet
- Recommended Wire: 20 gauge, 3-conductor shielded cable
- Dimensions: 2-1/8" x 3-1/2" x 3/4"

**F145-1328**

Compatible with all White-Rodgers 90 series thermostats with indoor remote sensing.

**F145-1378**

Compatible with all White-Rodgers 90 series staging thermostats with outdoor remote sensing with 12 ft. sensor lead.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75469	F145-1378 COMFORT SET 90 OUTDOOR REMOTE SENSOR	—
1	EA	75501	F145-1328 COMFORT SET 90 INDOOR REMOTE SENSOR	—

**White**  
**Rodgers**

**Blue Easy Reader Thermostat**  
**6 Sq. In. Display**



- Large easy-to-read character size
- Universal model—single stage, multi-stage or heat pump system
- Simple one-button, one-function operation
- Energy Star rated
- +/- 1° accuracy
- 5-year warranty

**1F95EZ-0671**

- Single-stage/multi-stage/heat pump
- 4 heat/2 cool stages
- Setpoint Temperature Range: 45 to 99° F
- Operating Ambient Temperature: 32 to 105° F

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6
1	EA	75757	F61-2600 8-1/8IN W X 5-3/8IN H BLUE TOUCHSCREEN THERMOSTATS	—	—
1	EA	75758	F61-2634 6-1/2IN W X 5IN H WALL PLATE FOR 80&90 SERIES BLUE	—	—
1	EA	75695	1F95EZ-0671 BLUE 4 HEAT/2 COOL UNIVERSAL EASY READER THERMOSTAT	—	—

**White**  
**Rodgers**

**Blue Wireless Easy Thermostat System**  
**6 Sq. In. Display**



- Universal—compatible with single and multi-stage, heat pump and heat pump with dual fuel applications
- Addresses hot and cold spots
- Premium humidity control
- Easy-to-read 6" display on comfort interface
- +/- 1° accuracy

- Choice of 7 day programmable or non-programmable
- Choice of 4 or 2 program periods per day
- Setpoint Temperature Range: 45 to 99° F
- Operating Ambient Temperature:  
1F98EQ-1621 Comfort Interface: 14 to 131° F  
1F98EZ-1621 Equipment Control: -13 to 158° F  
F145RF-1600 Wireless Sensor: -4 to 129° F

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75835	1F98EZ-1621 6IN WIRELESS EASY INSTALL THERMOSTAT SYSTEM	—
1	EA	75836	F145RF-1600 WIRELESS REMOTE INDOOR OR OUTDOOR TEMP SENSOR	—

White  
Rodgers

**Blue Thermostats**  
4 Sq. In. Display



- Spanish language models available
- Exclusive battery power monitor
- Millivolt and hydronic zone valve compatible
- Energy Star rated
- +/- 1° F accuracy
- 5-year warranty

**1F80-0471**

- 1 heat/1 cool
- Single-stage
- Programmable

**1F83-0422**

- 2 heat/2 cool stages
- Non-programmable

**1F83-0471**

- 3 heat/2 cool stages
- Non-programmable

**1F85-0422/1F85ST-0422**

- 2 heat/2 cool stages
- Programmable
- ST model has Spanish language display

**1F86-0471/1F86ST-0471**

- 1 heat/1 cool
- Single-stage
- Non-programmable
- ST model has Spanish language display

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6
1	EA	75305	1F83-0471 BLUE UNIVERSAL NON-PROG THERMOSTAT W/ WALL PLATE	—	—
1	EA	75308	1F86-0471 BLUE NON PROGRAMMABLE THERMOSTAT	—	—
1	EA	75309	1F80-0471 BLUE PROGRAMMABLE THERMOSTAT	—	—
1	EA	75758	F61-2634 6-1/2IN W X 5IN H WALL SERIES BLUE THERMOSTATS	—	—
1	EA	75785	1F83-0422 BLUE NON PROGRAMMABLE DIGITAL UNIVERSAL THERMOSTAT	—	—
1	EA	75786	1F85-0422 BLUE NON OR PROGAMMABLE DIGITAL UNIVERSAL THERMOSTAT	—	—
1	EA	75811	1F86ST-0471 NON-PROGRAMMABLE BLUE SPANISH LANG THERMOSTAT	—	—
1	EA	75812	1F85ST-0422 BLUE UNIVERSAL HISPANIC THERMOSTAT	—	—

White  
Rodgers

**Blue Thermostats**  
2 Sq. In. Display



- Programmable and non-programmable models
- Choice of heat pump or single-stage models
- Exclusive Cool Savings™ feature saves energy during peak A/C demand periods
- Long battery life—uses 2 AA alkaline batteries
- Exclusive battery power monitor
- Energy Star rated
- +/- 1° F accuracy
- 5-year warranty

**1F80-0261**

- 1 heat/1 cool heat pump stages
- Single-stage
- Programmable 5+1+1 day

**1F82-0261**

- 2 heat/1 cool heat pump stages
- Programmable 5+1+1 day

**1F86-0244**

- 1 heat/1 cool
- Single-stage
- Non-programmable

**1F89-0211**

- 2 heat/1 cool heat pump stages
- Non-programmable

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6
1	EA	75758	F61-2634 6-1/2IN W X 5IN H WALL SERIES BLUE THERMOSTATS	—	—
1	EA	75791	1F89-0211 2IN BLUE 2/1 HP NON-PROGRAMMABLE THERMOSTAT	—	—
1	EA	75788	1F80-0261 2IN BLUE 1/1 SS 5+1+1 PROGRAMMABLE THERMOSTAT	—	—
1	EA	75789	1F82-0261 2IN BLUE 2/1 5+1+1 HEAT PUMP PROGRAMMABLE THERMOSTAT	—	—
1	EA	75790	1F86-0244 2IN BLUE 1/1 SINGLE STAGE NON-PROGRAMMABLE THERMOSTAT	—	—

**White** ▾ **Blue Easy Set Thermostats**  
**Rodgers** 2 Sq. In. Display



- Non-Programmable
- 3 temperature presets—home, sleep, away
- Heat pump or single stage models
- Long battery life—uses 2 AA alkaline batteries (included)
- Battery power monitor
- Exclusive sleep timer
- 5-year warranty

**1F86EZ-0251**

- 1 heat/1 cool
- Single-stage

**1F89EZ-0251**

- 2 heat/1 cool heat pump stages

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6
1	EA	75821	1F86EZ-0251 2IN SINGLE STAGE BLUE EASY SET THERMOSTAT	—	—
1	EA	75825	1F89EZ-0251 2IN 2H/1C BLUE HEAT PUMP THERMOSTAT	—	—

**White** ▾ **80 Series Thermostats**  
**Rodgers**



**1F80-361**

- 5+1+1 programmable
- 1 heat/1 cool single stage
- Energy star rated
- +/- 1° F accuracy

**1F82-261 Programmable Thermostat**

- For heat pump applications
- 5+1+1 programmable
- 2 heat/1 cool HP stages
- Energy star rated
- +/- 1° F accuracy
- 1.8 sq. in. display

**1F85-277**

- 2 heat/2 cool single-stage
- 5+1+1 programmable or non-programmable
- Energy star rated
- +/- 1° F accuracy

**1F86-344 Non-programmable**

- 1 heat/1 cool single-stage
- +/- 1° F accuracy
- Setpoint storage in case of power loss
- 2.2 sq. in. display

**1F89-211 Non-programmable**

- For heat pump applications
- 2 heat/1 cool HP stages
- Setpoint storage in case of power loss
- 1.8 sq. in display
- Non-programmable
- +/- 1° F accuracy

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6
1	EA	75345	1F80-361 5+1+1 WHITE PROGRAMMABLE THERMOSTAT	—	—
1	EA	75524	1F82-261 5+1+1 WHITE HEAT PUMP PROGRAMMABLE THERMOSTAT	—	—
1	EA	75367	1F85-277 BLUE 7-DAY WHITE UNIVERSAL PROG/NON-PROG THERMOSTAT	—	—
1	EA	75344	1F86-344 WHITE SET POINT NON-PROGRAMMABLE THERMOSTAT	—	—
1	EA	75607	1F89-211 WHITE SET POINT HEAT PMP NON PROGRAMMABLE THERMOSTAT	—	—
1	EA	75516	F61-2500 7-5/8IN X 4-3/4IN WALL PLATE FOR 80 SERIES THERMOSTAT	—	—

# White Rodgers 70 Series Thermostats

1.2 Sq. In. Display



- Economical upgrade from mechanical thermostats to digital accuracy.
- Horizontal and vertical styles
- Programmable and non-programmable models

### 1F78-151 Programmable

- 1 heat/1 cool
- Horizontal style

### 1F78-144 Non-Programmable

- 1 heat/1 cool
- Horizontal style

### 1F79-111 Non-Programmable

- Heat pump model
- 2 heat/1 cool
- Horizontal style

### 1D78-140 New Construction Thermostat

- Heat only
- Vertical style

### 1E78-151 Programmable

- 1 heat/1 cool
- Vertical style

### 1E78-144 Non-Programmable

- 1 heat/1 cool
- Vertical style

### 1E78-140 Non-Programmable

- Heat only
- Vertical style

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6
1	EA	75492	1F78-151 5+2 WHITE HORIZONTAL PROGRAMMABLE THERMOSTAT	—	—
1	EA	75504	1F78-144 WHITE SET POINT HORIZONTAL NON PROGRAMMABLE THERMOSTAT	—	—
1	EA	75799	1F79-111 2H/1C NON-PROGRAMMABLE HEAT PUMP THERMOSTAT	—	—
1	EA	75435	1D78-140 TEMPORARY CONSTRUCTION STAT	—	—
1	EA	75476	1E78-151 5+2 WHITE VERTICAL PROGRAMMABLE THERMOSTAT	—	—
1	EA	75475	1E78-144 WHITE SETPOINT VERTICAL NON PROGRAMMABLE THERMOSTAT	—	—
1	EA	75440	1E78-140 WHITE SETPOINT VERTICAL HEAT ONLY NON-PROG THERMOSTAT	—	—
1	EA	75478	F61-2510 WALL PLATE HORIZONTAL STAT F/70 SERIES	—	—

# White Rodgers Universal Replacement Mechanical Thermostat



- Horizontal style
- Single-stage heat/cool
- 3-wire zone mounting plate included
- Enclosed contacts
- 5-year warranty
- New mercury-free mechanicals offer quick and easy replacement

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6
1	EA	75813	1F56N-444 MERCURY FREE SINGLE STAGE UNIVERSAL SET THERMOSTAT	—	—



## SC65 and SC70 Series Single Point Thermostats

The SC65 and SC70 Series Single Point Thermostats are intended for use as a temporary device to provide heating during construction. Hardwired, electrical rating: 24 volt AC / 2 amp maximum. Temperature accuracy +/- 5° F.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	76000	SC065 65 DEGREE TEMP STAT - HEATING ONLY (10/PKG)	—
10	EA	76010	SC070 70 DEGREE TEMP STAT - HEATING ONLY (10/PKG)	—

# Honeywell T451A and T651A Light Duty Line Voltage Thermostats



Controls line voltage valves, motors, contactors, electric heat elements, duct furnaces, and fan coil units in heating/cooling systems. Mounts on standard vertical or horizontal outlet box. Automatic cooling and heating anticipation.

**Approximate Dimensions:**

4-1/2" H x 2-15/16" W x 1-13/16" D

**Fixed Differential:** 2° F

U.L. Listed

Model No.	Application	Temp. Range (°F)	Switch Action on Temp. Rise	Includes
T451A 3005	Heating	44 to 86	SPST Breaks on rise.	Thermometer, range stops and locking cover screws, high accuracy Dual Diaphragm sensor.
T651A 3018*	Heating and Cooling	35 to 95	SPDT Breaks heating and makes cooling.	Thermometer, range stops and locking cover screws, wall plate, horizontal scaleplate with no thermometer, high accuracy Dual Diaphragm sensor

\* Super Tradeline Model.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	72937	T451A3005/U THERMOSTAT LINE VOLTAGE	—	—
10	EA	72993	T651A3018/U THERMOSTAT LINE VOLTAGE	—	—

# Honeywell T631A and C Farm Controllers



Provide line voltage control of heating, cooling, and ventilating systems in farm buildings or storage areas. Use in barns, poultry houses, hog barns, pump houses, milk houses, and crop storage houses. Treated to resist corrosion. Slots in front and bottom of case provide maximum air circulation over the coiled sensing element.

SPDT snap switches permanently sealed against corrosion. Easy mounting using screws through holes in back of case.

**Dimensions:**

4-15/16" H x 6-1/16" W x 2-7/8" D.

**Sensing Element:** Coiled copper tube.

U.L. Listed.

**Electrical Ratings (Amperes): T631A**

T631A	SPDT Snap Switch		SPDT 1 HP Switch	
	120 Vac	240 Vac	120 Vac	240 Vac
	Full Load	7.4	3.7	16.0
Locked Rotor	44.4	22.2	96.0	40.0

**Electrical Ratings (Amperes): T631C**

T631C	SPDT Snap Switch				SPDT 1 HP Switch			
	24 Vac	120 Vac	240 Vac	277 Vac	R-W		R-B	
					120 Vac	240 Vac	120 Vac	240 Vac
Full Load	2	7.4	3.7	3	16	8	8	5.1
Locked Rotor	—	44.4	22.2	18	80	40	48	30.6
Resistive Load	—	10	5	—	—	—	—	—

Model No.	Range °F	Switching	Fixed Differential Per Switch °F	Max. Ambient Temp. °F	Color
T631A 1006	35 to 100	SPDT Snap Switch	2	120	Red
T631A 1030	0 to 70	SPDT Snap Switch	3	125	Red
T631C 1012	20 to 90	1 HP SPDT Snap Switch	3	125	Gray
T631C 1020	70 to 140	SPDT Snap Switch	2	150	Gray
T631C 1103*	-30 to +100	1 HP SPDT Snap Switch	5	125	Gray

\* Tradeline Model

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	72975	T631A1006/U FARM-O-STAT	—
4	EA	72976	T631A 1030 FARM-O-STAT	—
4	EA	72979	T631C 1012 AIRSWITCH	—
4	EA	72981	T631C 1103 AIRSWITCH	—
4	EA	72982	T631C 1020 AIRSWITCH	—

## Honeywell T921A and G Proportioning Thermostats



Three-wire low voltage controllers for valve motors, damper motors, and blancing relays in heating or cooling system applications. Bellows element adjusts the potentiometer's slider to regulate motor operation. Removable setting knob prevents unauthorized tampering with set point.

U.L. Listed

Model No.	Approximate Dimensions (In.)	Temp Range °F	Accessory Faceplate Adapter for Mounting Horizontally	Throttling Range °F
T921A 1191*	5-11/16 H x 3-3/8 W x 2-1/4 D	56-84	135135A	2.5
T921G 1005		56-84	135135A	5.0

\* Tradeline model includes slotted sides and an add-on faceplate to allow thermostat to be mounted horizontally.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	73139	T921A1191/U THERMOSTAT	—
4	EA	72899	T921G 1005 THERMOSTAT	—

## Honeywell T6051 Heavy Duty Line Voltage Thermostat



For heating/cooling applications with resistive rating for electric heat applications. Control fan coils, fans, motor starters, valves, contactors, and circulator motors in heating and/or cooling systems. Provides good univoltage comfort control. Add Q651A or B Subbases to provide system and fan switching at the thermostat location. The set point knob is removable to lock set point and prevent tampering. With locking cover.

U.L. Listed.

Model No.	Approximate Dimensions (In.)	Switching	Mounting	Temp. Differential °F	Temp. Range °F
T6051A 1016*	5 H x 3-1/8 W x 1-5/8 D	SPDT	Vertical	1.0	46 to 84

\* Tradeline Model, replaces formerly available T4051 models.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73188	T6051A1016/U THERMOSTAT	—	—

## Honeywell LineVoltPRO™ 7000 Thermostat

### Digital, Non-Programmable, Electric Heat



Honeywell's LineVoltPRO™ 7000 delivers the features that matter most in a non-programmable thermostat: precise comfort control, an easy to read backlit display, and a contemporary design to fit your lifestyle.

- Heating indicator at-a-glance confirmation that the heat is on.
- On-demand backlight is easy to read in various lighting conditions.
- Electronic temperature control with  $\pm 1^\circ$  F precision saves up to 10%\* on heating bill.

- 5-year limited warranty.
- Maintenance free, no batteries required.
- Electrical ratings: 3120W @ 208V 15.0A; 3600W @ 240V 15.0A.
- Switching action: 4 wires / DPST.
- On/Off switch.
- 1° F drop control.

\* If used as directed, electronic thermostats can save up to 10% on annual heating costs. Savings may vary based on geographic region and usage.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73327	TL7235A1003/U LINE VOLT PRO ELECTRIC HEAT THERMOSTAT WHITE	—	—

## Honeywell LineVoltPRO™ 8000 Thermostat

### 7-Day Programmable, Electric Heat



Honeywell's LineVoltPRO™ 8000 is one of the most advanced thermostats for electric heating on the market. It features precise comfort control, a sophisticated design and high-end programming features. Begin lowering your heating bill immediately with the pre-programmed 7-day schedule, or modify the programming to suit your lifestyle. With LineVoltPRO 8000, you'll see substantial savings and feel consistently comfortable.

- Heating indicator provides at-a-glance confirmation that heat is on.
- On-demand backlight makes it easy to read in various lighting conditions.
- Electronic temperature control with  $\pm 1^\circ$  F precisions.

- Early start feature ensures programmed temperature is reached by programmed time.
- 5-year limited warranty.
- Pre-Set 7 Day Program: maintain the pre-set program schedule for up to 15%\* energy savings, or modify the schedule to fit your lifestyle.
- On/Off switch.

\* If used as directed, electronic thermostats can save up to 15% on annual heating costs. Savings may vary based on geographic region and usage.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73328	TL8230A1003/U LINE VOLT PRO 7 DAY PROG ELECTRIC HEAT THERMOSTAT WHITE	—	—

# Honeywell T7047 Electronic Space Temperature Sensors



Used in series 70 control systems to provide modulating space temperature control. Thermistor sensing element. Mount on wall or 2" x 4" vertical outlet box with screws provided.

Model No.	Application	Sensor Resistance*	Sensitivity per Degree	Remarks
T7047C 1025	Remote 2-wire sensor; for use with W973 single zone systems, T7300A, B, and T7400B.	1420 ohms nom. At 75° F	15 ohms for each 1° F temp. change.	Use with S963B 1037 for remote set point. Use with T7067B 1006 (W973 applications).
T7047C 1090	2-wire sensor; W9076A Temp. Indicator.	Less sensor	—	Use with 194950B sensor supplied with W9076A and T775.

\* Resistance increases as temperature falls.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
20	EA	73213	T7047C 1090 REMOTE TEMPERATUR SENSOR CASE ONLY	—
10	EA	73215	T7047C 1025 REMOTE SENSOR F/T775	—

# Honeywell T7067A and B Thermostat and Transmitter



T7067A Thermostat and T7067B Transmitter control space temperature when used with W973 Logic Panel. Separate heat and cool adjustable set point levers provide adjustable deadband for 3 to 30° F. Separate 1-16Vdc voltage ramps provide independent heating and cooling signals to W973 Singlezone Logic Panel. C7046A Discharge Air Sensor provides anticipation. One T7067 can control up to 6 parallel W973 panels. Mounts on standard 2" x 4" vertical outlet box or on a non-conductive flat surface.

**Ambient Temperature Range:** -40 to +150° F.

**Set Point Adjustment Range:** 55 to 85° F.

**Approximate Dimensions:**

4-5/8" H x 2-3/16" W x 1-1/4" D.

**Electrical Ratings:** Voltage 20 Vdc from W973 panel; Current Draw 20 mA.

Model No.	Temperature Sensor	Includes
T7067A 1008	Integral Temp. Sensor	Wiring plate, separate locking, heating and cooling set point levers, locking cover, without thermometer.
T7067B 1006	Remote Temp. Sensor. (Order separately).	

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	73216	T7067A 1008 THERMOSTAT	—
10	EA	73217	T7067B1006/U TRANSMITTER	—
10	EA	71599	Q667A 1005 SUBBASE	—



# Honeywell TB8220 Commercial VisionPRO 8000 Thermostat



The TB8220 Commercial VisionPRO 8000 Touchscreen Programmable Thermostat is an effortless, seven day programmable thermostat that provides universal system compatibility, precise comfort control, and is easy-to-program. The TB8220 provides temperature control for gas, oil, electric, and heat pumps for up to 2 heat, 2 cool systems.

- Large, clear display with backlight shows the current and set temperature and time even in the dark.
- Menu-driven programming makes setup effortless.
- Touchscreen interaction.
- Real-time clock keeps time during power failures and automatically updates to daylight savings.
- Saving Changes feature notifies user when the schedule changes have been saved.
- Change reminders let you know when to replace the batteries.
- Holiday Override options allow you to override the program schedule as desired.
- Speedy same-schedule programming, no need to copy multiple days.

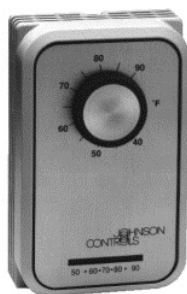
**Application:** Packaged TRU, conventional systems; heat pump systems, 24 Vac heating and cooling systems.

- Includes: Thermostat plus subbase
- Stages: 2 heat/2 cool
- Switch Positions (System): Auto-Cool-Off-Heat
- Switch Positions (Fan): Auto-On
- Color: Premier White
- Electrical Connections: 24 Vac or Battery

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73199	TB8220U1003/U COMMERCIAL VISIONPRO THERMOSTAT	—	—



## T26S Line Voltage Wall Thermostat Heating and Cooling



For control of residential, commercial, or industrial heating or year-round air conditioning. Heat or cold anticipators not required. Liquid charged temperature sensing element and highly efficient diaphragm and leverage assures close control of temperature.

Old Model No.	New Model No.	Application	Selector Switch	Range °F	Diff. (Approx.) °F	
					Heating	Cooling
825, 826	T26S18	SPDT, Heating & Cooling	None	40 to 90	1-3/4	1-1/4

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75462	T26S-18C SPST THERMOSTAT	—

White  
Rodgers

**Blue™ Commercial**  
6 Sq. In. Display



**Blue™ Commercial Features**

- Pre-occupancy purge and/or programmable fan
- Economizer/damper control output
- Remote sensing indoor and at the thermostat
- Keypad lockout-total or partial
- Programmable (7 day, 5/1/1 day) or non-programmable
- Hardwired or battery powered with optional power stealing assist

**1F95-0680**

- Universal application
- 4 heat/2 cool stages
- 6-square-inch display
- Lock feature secures thermostat to subbase, reduces tampering
- Dual fuel with outdoor sensor (F145-1378)
- 5-year warranty

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6
1	EA	75814	1F95-0680 BLUE MULTI-STAGE COMM PROGRAMMABLE THERMOSTAT	—	—

White  
Rodgers

**151 and 152 Line Voltage Thermostats**



Ideally suited for accurate, dependable control of line voltage devices such as air conditioners, unit coolers, display cases, walk-in boxes, room coolers, and numerous similar applications.

For control of most line voltage heating applications without use of relays or motor starters. Finish is semi-gloss grey with chrome trim.

**Case Dimensions:** 6" H x 2-3/4" W x 2-1/2" D.

Type	Range °F	Diff. °F	Switch Action	Full Elec. Rating	Motor Rating (Full Load)	
					120 Vac	240 Vac
151-6	55 to 95	Fixed 2	Close on Rise	FGH	16A	8.0A
152-9*	55 to 85	Fixed 2	Open on Rise	FG	14A	7.0A
179-1	55 to 95	Fixed 3	SPDT Open & Close on Rise	SPDT	7.4A	3.7A

\* Heater Rating: 120 Vac 25A; 240 Vac 22A.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75534	179-1 LINE VOLT THERMOSTAT	—
1	EA	75535	151-6 LINE VOLT THERMOSTAT	—
1	EA	75536	152-9 LINE VOLT THERMOSTAT	—



**T32AH Adjustable Thermostat**



The T32AH is a Heat/Cool thermostat featuring all solid state reliability, flawless temperature control, and quick installation. For use with 24 to 30 Vac systems (Min./max loads: .05/1.0 amps.) This is a single unit that does not require subbase assembly.

No leveling, calibration or recalibration, bi-metal elements, or anticipators to adjust.

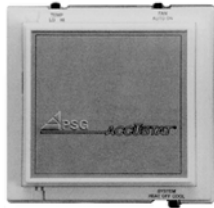
**Temperature Range:** 40 to 90° F.

**Switching:** System On/Off fan.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	76019	T32AH HT/CL 40/90F THERMOSTAT	—



## LA-1, LH-1, and LAH-11 Single-Stage Accustat Thermostats



Single-stage models are most commonly used to achieve set point control of room temperature. They operate with single-stage heating, cooling, or combined heating and cooling systems. Locking case is standard with all models.

**LA-1:** For cooling applications, requires 1 sensor, has 2-position Auto/On switch and 2-position Off/On switch.

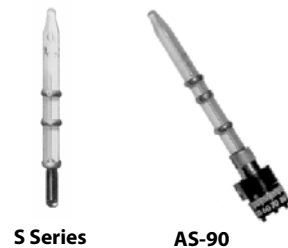
**LH-1:** For heating applications, requires 1 sensor and has 2-position Off/On switch.

**LAH-11:** For heating/cooling applications, requires 2 sensors, has 2 position Auto/On switch and 3-position Heat/Off/Cool switch.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	76030	LA-1 COOLING ONLY SINGLE STAGE L/VOLT ACCUSTAT	—
1	EA	76032	LH-1 HEATING ONLY SINGLE STAGE L/VOLT ACCUSTAT	—
1	EA	76035	LAH-11 HT AND CL SINGLE STAGE L/VOLTAGE ACCUSTAT	—



## S Series and AS-90 Sensors



S Series

AS-90

### S Series Sensors

As temperature changes, a column of mercury rises or falls in a glass capillary tube. On/Off switching is achieved by two hermetically sealed platinum electrodes. In the heating mode, as the mercury makes contact with the top electrode, the heating system is turned off. In the cooling mode, the cooling is turned on.

### AS-90 Sensor

This adjustable, snap-in sensor mounts in all Accustat® models, including low and line voltage, single and multistage, heat pump, and limiters. Can be used in combination with preset type sensor. Compact dimensions of the AS-90 allow it to fit within standard Accustat locking cases.

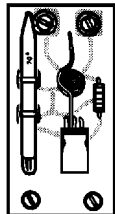
- **Adjustment Range:** 40 to 90° F (knurled knob with screwdriver slot).
- **Accuracy:** ±2° F.
- **Differential (In Air):** 1 to 3° F (depending upon characteristics of heating/cooling system).

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	76085	AS-90 40/90F ADJUSTABLE SENSOR	—
1	EA	76086	S-40 PRESET 40 DEG F SENSOR	—
1	EA	76088	S-50 PRESET 50 DEG F SENSOR	—
1	EA	76089	S-55 PRESET 55 DEG F SENSOR	—
1	EA	76090	S-60 PRESET 60 DEG F SENSOR	—
1	EA	76091	S-62 PRESET 62 DEG F SENSOR	—
1	EA	76092	S-64 PRESET 64 DEG F SENSOR	—
1	EA	76093	S-65 PRESET 65 DEG F SENSOR	—
1	EA	76094	S-66 PRESET 66 DEG F SENSOR	—
1	EA	76095	S-68 PRESET 68 DEG F SENSOR	—
1	EA	76096	S-70 PRESET 70 DEG F SENSOR	—
1	EA	76097	S-72 PRESET 72 DEG F SENSOR	—
1	EA	76098	S-74 PRESET 74 DEG F SENSOR	—
1	EA	76099	S-75 PRESET 75 DEG F SENSOR	—
1	EA	76100	S-76 PRESET 76 DEG F SENSOR	—
1	EA	76101	S-78 PRESET 78 DEG F SENSOR	—

CAUTION: After system has been tested, make sure that the sensors are snapped into sensor clips. If the sensors are not snapped into clips properly, the heating system will not turn off.



## LIM-H1 Duct Mount Limiter



The limiter is used to limit maximum heating and minimum cooling temperatures to set points selected by management. Limiters prevent energy-wasting temperature settings and eliminate the effects of tampering with the primary control. Heating models with one sensor.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	76063	LIM-H1 HT ONLY DUCT MOUNT LIMITER	—



## LMS Multi-Stage Accustat Thermostats



Multi-stage thermostats provide setpoint control of multi-stage heating, cooling, or combined heating/cooling systems.

Model No.	Type	No. of Sensors Required	No. of Stages	2-Position Switch Auto/On	2-Position Switch Off/On	3-Position Switch Heat/Off/Cool
LMS-A2	Cooling	2	2 Cooling	x	x	
LMS-AH11	Heating/Cooling	2	1 Cooling/1 Heating	x	x	x
LMS-AH22	Heating/Cooling	4	2 Cooling/2 Heating	x	x	x

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	76041	LMS-A2 2CL MULTI STAGE L/VOLTAGE ACCUSTAT	—
1	EA	76043	LMS-AH11 HT/CL SINGLE STAGE L/VOLTAGE ACCUSTAT	—
1	EA	76046	LMS-AH22 2CL/2HT MULTI-STAGE L/VOLTAGE ACCUSTAT	—

## Honeywell TG511A and TG512A Versaguard™ Thermostat Guards Universal



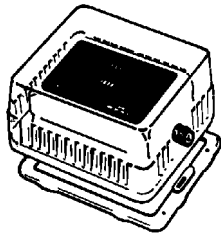
Enclose and protect wall thermostats against tampering, damage, and unauthorized adjustment of thermostat settings. Thermostat guards are designed to cover a wide variety of thermostats. Clear acrylic covers allow display of temperature and settings.

Tamper-resistant lock; key cannot be removed without being in locked position. All models mount vertically or horizontally on wall or on exposed junction box. Vents in guard base allow airflow for optimum thermostat performance.

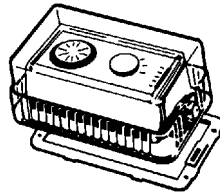
Model No.	Size	Cover	Base	Wallplate	Inside Dimensions (In.)			Outside Dimensions (In.)		
					Height	Width	Depth	Height	Width	Depth
TG511A 1000	Medium	Clear	Clear	Opaque	5-1/16	6-1/16	2-5/8	6-1/2	7-1/2	2-15/16
TG512A 1009	Large	Clear	Clear	Opaque	5-7/8	8-3/8	3	7-1/4	9-3/4	3-3/8

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	73290	TG511A1000/U 5X6 ID CLEAR THERMOSTAT GUARD	—	—
10	EA	73291	TG512A1009/U 6X8 1/2 ID CLEAR THERMOSTAT GUARD	—	—

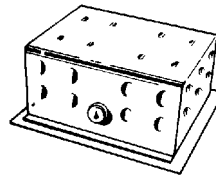
White ▾ **Thermostat Guards**  
Rodgers



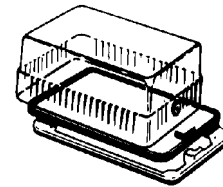
F29-0227



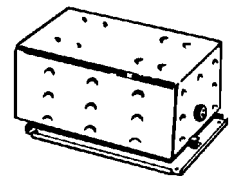
F29-0143



F29-0192



F29-0198



F29-0220

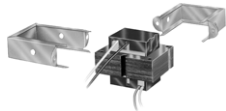
**Thermostat Guards**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75766	F29-0220 7-1/8IN H X 4-5/8IN W X 3-1/4IN THERMOSTAT GUARD-METAL	—
1	EA	75767	F29-0198 8-1/4IN H X 5-3/8IN W X 3-1/2IN THERMOSTAT GUARD-CLEAR	—
1	EA	75768	F29-0227 5-1/4IN H X 4-5/8IN W X 3IN D THERMOSTAT GUARD-CLEAR	—
1	EA	75770	F29-0143 6-3/8IN H X 3-1/2IN W X 3IN D THERMOSTAT GUARD-CLEAR	—
1	EA	75771	F29-0192 6-1/4IN H X 4/34IN W X 3IN D THERMOSTAT GUARD-METAL	—

**Key**

1	EA	75765	F145-0999 THERMOSTAT GUARD KEY	—
---	----	-------	--------------------------------	---

**Honeywell AT20A and AT40A Universal Stripped-Down Transformers**



Channel frame mounting feet and slots allow for the 3 mounting positions: direct, horizontal, or vertical. Nine inch color coded primary and secondary leads. Transformers should be mounted within proper enclosure.

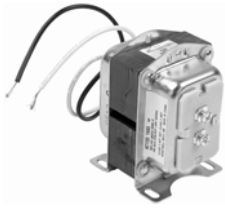
Approximate Overall Dimensions: 2-3/32" H x 2-5/8" W x 2-3/16" D.

Model No.	Primary Voltage/Frequency	Secondary Voltage (Open Circuit)	Output (100 Percent Power Factory)
AT20A 1123	120V, 50/60 Hz	26.5	20 VA
AT40A 1121	120V, 50/60 Hz	26.5	40 VA

T20A Marked: NEMA Type B.  
AT40A Marked: NEMA Type D.  
Meets NEMA DC20-1992.  
U.L. Component Recognized.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
20	EA	70108	AT20A1123/U TRANSFORMER 120V 20VA	—	—
10	EA	70110	AT40A1121/U TRANSFORMER 120V 40VA	—	—

# Honeywell AT72D Standard Transformers



This 24 volt control circuit step-down transformer is designed to operate any 24V control system including thermostats, gas valves and relays. Overload protection provided. Color-coded leadwire connections.

**Output** (100 percent power factors): 40 VA  
**Meets:** NEC Class 2 Not Wet and Class 3 Wet  
**Marked:** NEMA Type D  
 NEMA Standard DC20-1992  
 U.L. 1585

Model No.	Primary		Secondary		Mounting
	Voltage 50/60 Hz	Connections	Voltage (Open Circuit)	Connections	
AT72D1048	120	9 Leadwires	26.5	32" Lead Wires 1/2" Conduit Hub	4" x 4" Plate Mounted
AT72D1683*	120	9 Leadwires	26.5	2 Screw Terminals	Can be foot-mounted; plate mounted on 4" x 4", 4" octagon, or 2" x 4" electrical boxes (transformer all above plate or 3/4" above plate); or clamp mounted via a junction box knockout.
AT72D1691*	208/240	9 Leadwires	26.5	2 Screw Terminals	

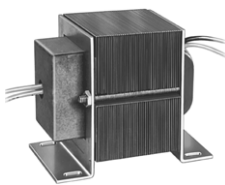
\*Super Tradeline model

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	70117	AT72D1048/U TRANSFORMER 120V 40VA	—	—
20	EA	70130	AT72D1683/U TRANSFORMER 120V 40VA	—	—
20	EA	70131	AT72D1691/U TRANSFORMER 240V 40VA	—	—

# Honeywell AT87A and AT88A Transformers



AT87A



AT88A

Used primarily for powering 24 volt air conditioning circuits. Can also be used in other applications that do not exceed the listed ratings. AT87A meets NEMA Standard DC20-1992.

U.L. Component Recognized (except AT87A 1106 which is U.L. general listed).

**Overload protection provided.** Lead wires for primary connections are color-coded as follows.

- 120V: White
- 208V: Red
- 240V: Orange
- 277V: Brown
- 480V: Black/Red
- Common: Black

Model No.	Primary		Secondary		Output (100% Power Factor)	Mounting	Overload Protection
	Voltage 50/60 Hz.	Connections	Voltage (Open Circuit)	Connections			
AT87A 1106*	120/208/240	13" Leads	28.0	2 Screw Terminals	50 VA	Foot-mounted or 4" x 4" plate	Built-in Protection
AT87A 1155	480	12" Leads	26.5	12" Leads	48 VA	Foot-mounted	Energy Limiting
AT87A 1189	277	12" Leads	26.5	12" Leads	48 VA	Foot-mounted	Energy Limiting
AT88A 1005	120	12" Leads	26.5	12" Leads	75 VA	Foot-mounted	Internally Fused Secondary
AT88A 1047	480	12" Leads	26.5	12" Leads	75VA	Foot-mounted	—

\* Super Tradeline model.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	70160	AT87A1155/U TRANSFORMER 480V 48VA	—	—
10	EA	70161	AT88A1047/U TRANSFORMER 480V 75VA	—	—
10	EA	70162	AT87A1189/U TRANSFORMER 277V 48VA	—	—
10	EA	70163	AT87A1106/U TRANS 120/208/240V 50VA	—	—
10	EA	70164	AT88A1005/U TRANSFORMER 120V 75VA	—	—

# Honeywell AT140 and AT175 General Purpose Transformers



Provide power to 24 Vac circuits in heating/cooling control systems. Intended for use in systems with predictable, uniform loads. Can be used in any application that does not exceed the listed ratings.

A Models U.L. Listed

B Model U.L. Component Recognized.

Model No.	Primary		Secondary		Output (100% Power Factor)	Mounting
	Voltage 50/60 Hz.	Connections	Voltage (Open Circuit)	Connections		
AT140A 1018	120/208/240	9" Leadwires	27.0	Screw Terminals	40VA	Foot mounted, plate mounted on 2" x 4" or 4" x 4" outlet box, clamp-mounted using outlet box knocked or panel mounted.
AT140A 1000	120	9" Leadwires				
AT140B 1206	120	9" Leadwires				
AT175A 1008	120/208/240	9" Leadwires	27.5	Screw Terminals	75 VA	

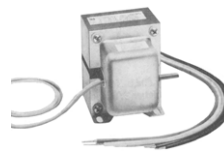
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
20	EA	70152	AT175A1008/U TRANS 120/208/240V 75VA	—	—
20	EA	70155	AT140A1000/U TRANSFORMER 120V 40VA	—	—
20	EA	70156	AT140A1018/U TRANS 120/208/240V 40VA	—	—
20	EA	70157	AT140B1206/U TRANSFORMER 120V 40VA	—	—

## MARS Transformers



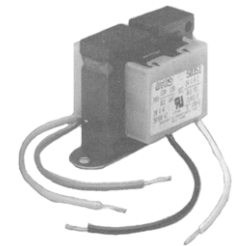
### 50321 Manual Reset Style

- Low heat rise.
- Color coded leads.
- Foot-mount.
- NEMA Class II.
- U.L. 1585 recognized.



### 50304 End Bell Type

- Low heat rise.
- Primary color coded leads, secondary color coded leads, or screw terminals.
- Multimount style.
- NEMA Class II.
- U.L. 1585 recognized.



### 50354 Compact Open Construction

- Low heat rise.
- Primary color coded leads.
- Secondary color coded leads, or 1/4" male quick connects.
- Foot-mount.
- NEMA Class II.
- UL 1585 recognized.

Mars No.	VA Rating	Primary			Secondary	
		Voltage	Hz.	Connections	Voltage	Connections
50321	75	120/208/240/480	50/60	Color Coded Leads	24	Color Coded Leads
50304	40	120/208/240	50/60	Color Coded Leads	24	Color Coded Leads
50354	40	120/208/240	60	Color Coded Leads	24	Color Coded Leads

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77174	50321 120/208/240/480-24V 75VA TRANS	—
1	EA	77175	50304 120/208/240-24V 40VA TRANS	—
1	EA	77176	50354 40VA 120/208/240 24V FOOT MOUNT TRANSFORMER	—



## Replacement Coil for Electric Heat

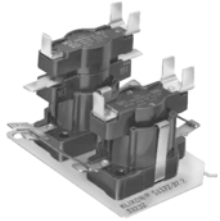


Wattage at 240V: 5000; Wattage at 208V: 3750  
 Stretched Length: Min. 44.62", Max. 127.48"

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94913	34601 5KW RESTRING KIT	—



## Series 332 Electric Heat Sequencer



- Solid State dependability.
- Replaces Honeywell and White-Rodgers.
- Ambient rated from 20° F to 160° F.
- Used on both separate blower and element and combination blower and element systems.
- Total 24 Volt control.

### Contact Ratings

VAC	Amps	FLA	LRA	Duty VA
120	30	23	84	672
240	30	23	60	960
277	23	23	42	775
480	12.5	5	10	400

Model No.	No. of Switches	Switch Sequence		Switch Timing: Min. - Max. in Seconds							
		First On Last Off	Last On First Off	Switch No.1 (Terminals) (M1/M2)		Switch No.2 (Terminals) (M3/M4)		Switch No.3 (Terminals) (M5/M6)		Switch No.4 (Terminals) (M7/M8)	
				On	Off	On	Off	On	Off	On	Off
33233	4	No. 1, No. 2	No. 3, No. 4	1-24	45-75	1-24	45-75	30-70	1-40	30-70	1-40
R24DB	4	No. 2, No. 2	No. 3, No. 4	1-110	110	1-110	110	110	1-110	110	1-110

\* Auxiliary switch has same electrical rating as main switches.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94467	33233 ELECTRIC HEAT SEQUENCER	—
20	EA	72136	R24DB4005/U ELECTRIC HEAT SEQUENCER	—



## TC-4000 Series Temperature Controls



These temperature sensitive thermal cutouts offer a complete range of replacements for electric resistance heaters. The TC-4000 series is for use "in-line" mounting.

Nominal Electric Rating: 15 amp with air flow.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75616	STC4300/TC-4300 300F/149C THERMAL CUT OUT	—
5	EA	75617	STC4333/TC-4333 333F/167C THERMAL CUT OUT	—



# Honeywell DP Series Economy Model Contactors

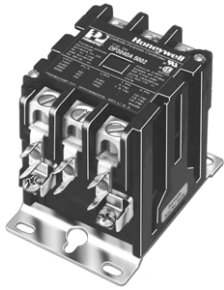


Economy model features shrouded coils 3 pole (25A to 60A) to protect the coil from harsh environmental factors. Moisture proof epoxy is used to encapsulate the 3 pole 75A through 120A coils.

Model No.	Coil Voltage	Number of Poles	Nominal Contact Rating		Terminals	
			Full Load	Resistive	Coil	Main
DP1030A 1000	24V	1	30A	40A	Double 1/4" Quick Connects	#10 Combination Head Screws
DP2030A 1003	24V	2	30A	40A		
DP2030B 1002	120V	2	30A	40A		
DP2030C 1001	208/240V	2	30A	40A		
DP2040A 1002	24V	2	40A	55A		

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	70320	DP1030A1000/U CONTACTOR 1P 30A 24V	—	—
12	EA	70335	DP2030B1002/U CONTACTOR 2P 30A 120V	—	—
12	EA	70336	DP2030C 1001 CONTACTOR 2P 30A 240V	—	—
12	EA	70339	DP2030A1003/U CONTACTOR 2P 30A 24V	—	—
12	EA	70323	DP2040A1002/U CONTACTOR 2P 40A 24V	—	—

# Honeywell DP Series Deluxe Power Pro Contactors



Deluxe PowerPro™ meets ARI-780 Standard at stated ratings (500,000 cycle mechanical life, 200,000 cycle electrical life and 10,000 cycle recycle life); the most demanding ARI requirement. Class H high temperature insulated coils are standard on 3 pole 25A through 75A contactors. Silver cadmium oxide contacts provide long life under demanding duty cycles.

Recessed push-to-test button prevents accidental operation. Three terminal styles—box lug, binding head screws, or sems clamp, depending on model. Snap-on auxilliary interlocks provide a variety of switching options. Low profile design on most models allows for more wiring room.

Model No.	Coil Voltage	Number of Poles	Nominal Contact Rating		Terminals		Replaces
			Full Load	Resistive	Coil	Main	
DP1025A 5005	24V	1 w/shunt	25A	30A	1/4" Quick Connects	#10-32 Combination Head-Screws and Sems Screws	R8242A 1289
DP2030A 5004	24V	2	30A	40A			R8243B 1005
DP2030A 5012	24V	2	30A	40A			R8243B 1013
DP2030B 5011	120V	2	30A	40A			R4243B 1038
DP2030C 5010	208/240	2	30A	40A			R4243B 1046
DP2040A 5003	24V	2	40A	55A			R8243B 1022
DP2040C 5001	208/240	2	40A	50A			—
DP3030A 5003	24V	2	30A	40A			R8212R 1007
DP3030C 5001	208/240	3	30A	40A			R4212G 1331
DP3040A 5002	24V	3	40A	50A			R8214G 1140 R8214G 1157 (USS Coil Model)
DP3040B 5001	120V	3	40A	50A	R4214G 1347		
DP3040C 5000	208/240V	3	40A	50A	R4214G 1354		
DP3050A 5001	24V	3	50A	63A	1/4" Quick Connects and #6 Screws	Lug Connectors	R8220B 1051 R8220B 1069 (USS Coil Model)
DP3050C 5009	208/240	3	50A	63A			R4220B 1100
DP3060A 5000	24V	3	60A	75A			R8243B 1022
DP3060B 5009	120V	3	60A	75A			—
DP3060C 5008	208/240	3	60A	75A			R4234B 1062
DP3075A 5016	24V	3	75A	95A			—
DP3075B 5015	120V	3	75A	95A			—
DP3075C 5014	208/240	3	75A	95A			—
DP4040A 5001	24V	4	40A	50A			R4234B 1062

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	70340	DP1025A5005/U CONTACTOR 1P 25A 24V	—	—
12	EA	70337	DP2030A5004/U CONTACTOR 2P 30A 24V	—	—
12	EA	70338	DP2030A 5012 CONTACTOR 2P 30A 24V	—	—
12	EA	70333	DP2030B5011/U CONTACTOR 2P 30A 120V	—	—
12	EA	70334	DP2030C5010/U CONTACTOR 2P 30A 240V	—	—
12	EA	70324	DP2040A5003/U CONTACTOR 2P 40A 24V	—	—
12	EA	70353	DP2040C50001U CONTACTOR 2P 40A 208/240V	—	—
12	EA	70327	DP3030A5003/U CONTACTOR 3P 30A 24V	—	—
6	EA	70341	DP3030C5001/U CONTACTOR 3P 30A 240V	—	—
12	EA	70328	DP3040A5002/U CONTACTOR 3P 40A 24V	—	—
12	EA	70325	DP3040B5001/U CONTACTOR 3P 40A 120V	—	—
12	EA	70326	DP3040C5000/U CONTACTOR 3P 40A 240V	—	—
12	EA	70331	DP3050A5001/U CONTACTOR 3P 50A 24V	—	—
6	EA	70342	DP3050C5009/U CONTACTOR 3P 50A 240V	—	—
6	EA	70332	DP3060A5000/U CONTACTOR 3P 60A 24V	—	—
12	EA	70348	DP3060B5009/U CONTACTOR 3 POLE 60 AMP 120 VOLT	—	—
6	EA	70343	DP3060C5008/U CONTACTOR 3P 60A 240V	—	—
12	EA	70349	DP3075A5016/U CONTACTOR 3 POLE 75 AMP 24 VOLT	—	—
12	EA	70350	DP3075B5015/U CONTACTOR 3 POLE 75 AMP 120 VOLT	—	—
12	EA	70351	DP3075C 5014 CONTACTOR 3 POLE 75 AMP 208 240 VOLT	—	—
6	EA	70345	DP4040A5001/U CONTACTOR 4P 40A 24V	—	—



## Definite Purpose Contactors



- For use on air conditioning, electric resistance heating, and refrigeration systems.
- Straight-through wiring.
- Universal mounting base.
- U.L. & CSA recognized.

Coil Voltage	FLA	LRA	Resistive Amps	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
24	30	150	40	1	EA	94798	91311 30AMP CONTACTOR 1-1/2 POLE	—
24	30	180	40	1	EA	94802	91331 30AMP CONTACTOR 3-POLE	—
24	40	240	50	1	EA	94803	91431 40AMP CONTACTOR 3-POLE	—
24	30	150	40	1	EA	94804	91321 30AMP CONTACTOR 2-POLE	—

## White Rodgers C25 Series Definite Purpose Contactor Interlock Kit A Cutler-Hammer Product

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	99305	C320KG13 INTERLOCK KIT	—

## White Rodgers SureSwitch™ Universal Electronic Contactor Upgrade for Mechanical Compressor Contactors



- 5x contactor life
- Sealed to keep out ants and debris
- Microprocessor control nearly eliminates contact welding and pitting
- Ideal install with new PM contract
- Compressor protected from brownouts and short cycling
- Save on pest control treatments

**General Ratings:**

**Amps:** 30 (FLA), 150 (LRA)

**Coil:** 24 VAC

**Pole:** 1 or 1.5

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	99352	49P11-843 UNIVERSAL SURESWITCH CONTACTOR	—

White  
Rodgers

## RBM Fan Control Center



Transformer and relay combination for easy installation on a 4" x 4" junction box.

- Line voltage connections pre-wired
- Energy limiting class II transformer design
- Color coded pre-stripped leads
- Low voltage connections on terminal board

Model No.	Transformer						Relay	Contact Ratings			
	Primary			Secondary				120 VAC (amps)		240 VAC (amps)	
	Voltage	Hz	Connections	Voltage	VA	Connections		Full Load	Locked Rotor	Full Load	Locked Rotor
90-112	120	60	Color coded leads, pre-stripped	24V	40	Terminal board with 5 screw terminals	DPDT	13.8	82.8	6.9	41.4
90-118E	120	60		24V	40		SPNO/SP NC	13.8	82.8	6.9	41.4

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-11	PC-3 12
1	EA	94723	90-112 120VAC PRIMARY 24VAC SECONDARY DPDT RELAY FAN CONTROL CENTER	—	—	—
1	EA	94722	90-118E FAN CTL CTR	—	—	—



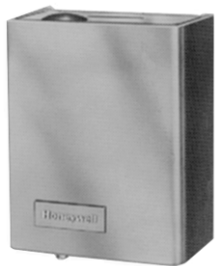
## Relay Transformer Fan Control Center



Mars model 24010 features maximum versatility. It is available with a DPDT relay plus a multi-voltage transformer. Color coded leads make it easy to select either 120, 208, or 240 volt primary.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94720	24010 FAN CONTROL CENTER	—

## Honeywell R847A Heavy Duty Relays



Provides switching for high-current loads such as cooling compressors. Has internal transformer that provides 24V power for control circuit. Internal, flexible leads permit SPST or DPST switching.

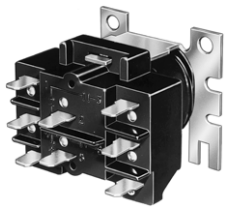
**Approximate Dimensions:**  
5-1/4" H x 4-1/4" W x 2-3/4" D.

**Voltage (50/60 Hz):** 120.

U.L. Listed

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	72253	R847A 1085 RELAY	—

# Honeywell R4222 and R8222 General Purpose Switching Relays



General purpose relays for use in refrigeration and air conditioning equipment, appliances, vending machines, and similar applications. Molded terminal numbers and circuit diagram on top of relay provide easy identification for wiring and checking system operation. All models listed have double quick-connect coil terminals. Untapped coil assures cooler operation. Laminated magnet construction for higher efficiency. The unit is mounted using 2 screws (up to No. 10 size) through holes in the metal base. The base is designed for easy replacement of competitive relays.

### Contact Ratings

Power Poles (Amps per Pole)

	120 Vac	208/ 240/ 277 Vac	480 Vac
Full Load	12	6	3
Locked Rotor	60	35	18
Resistive	15	15	10
Horsepower	3/4	3/4	3/4

**Ambient Temperature Range:** -20° to +155° F.

**Approximate Dimensions:** 1-7/8" H x 2-5/32" W x 2-3/8" D.

### Pilot Duty Poles:

Min. 3 VA at 24, 120, and 480 Vac.

Max. 25 VA at 24 Vac, 125 VA at 120, 240, and 480 Vac.

Resistive: 3A at 277 Vac (.75 power factor).

**Millivoltage:** Normally open pilot duty contacts are rated for millivoltage (Powerpile) application, 0.25A at 0.25 to 12 Vdc.

### Max. Pickup Voltage:

24V Coils: 18

120V Coils: 96

**Max. Sealed VA at Rated Voltage:** 10

**Max. Inrush VA at Rated Voltage:** 20

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
20	EA	72515	R8222B1067/U RELAY SPDT 24V	—	—
20	EA	72405	R4222D1013/U RELAY DPDT 120V	—	—
20	EA	72517	R8222D1014/U RELAY DPDT 24V	—	—
20	EA	72406	R4222N1002/U RELAY DPDT 120V PILOT	—	—
20	EA	72518	R8222N1011/U RELAY DPDT 24V PILOT	—	—

# Honeywell R8225A Fan Relay



Provides control of line voltage fan motors and auxiliary circuits in heating, cooling, or heating-cooling systems. Integral 1/2" conduit spud allows relay to be mounted on standard junction box. Color-coded leadings for easier wiring.

**Switching:** SPDT, one N.O., one N.C.

**Contacts:** Silver cadmium oxide.

**Maximum Operating Ambient Temperature:** 115° F.

**Approximate Dimensions:** 2-11/16" H x 2-1/2" W x 3-7/16" D.

### Contact Ratings (A):

	120 Vac			240 Vac		
	N.O.	N.C.	Aux.	N.O.	N.C.	Aux.
Full Load	14	14	3	8	7	2
Locked Rotor	84	84	18	48	42	12
Resistive	16	14	3	8	7	2
Horsepower	3/4	3/4	1/10	1	3/4	1/8

### Electrical Ratings:

Coil Voltage: 24V, 60 Hz.

Maximum Inrush: 11 VA.

Maximum Sealed: 6 VA.

Pull-in Voltage: 18 V at 75% rated volt.

U.L. Listed

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
20	EA	72520	R8225A1017/U FAN RELAY SPDT	—	—

## Honeywell R8239A Control Center



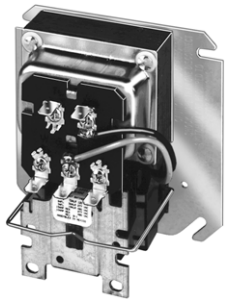
Includes NEMA standard transformer for excellent voltage control. Provides low voltage control of line voltage fan motors and auxiliary circuits in heating, cooling, or heating-cooling circuits. Mounts to standard 4" x 4" junction box. U.L. Listed NEMA standard DC20-1992

**Contact Ratings (A):**  
For Both N.O. and N.C. Ratings

	120 Vac	240 Vac
Full Load	12	6.9
Locked Rotor	72	41.4
Horsepower	3/4	3/4

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	72525	R8239A1052/U FAN CENTER SPDT 40VA	—	—

## Honeywell R8285A and E Control Centers



Provides low voltage control of line voltage fan motors and auxiliary circuits in heating, cooling, or air conditioning systems. The 40 VA transformer powers low voltage control systems and provides overload protection. Low voltage terminal board provides convenient connections for thermostat and heating and cooling equipment control circuit wiring. Mounts on standard 4" x 4" junction box. Relay is easily replaced without disturbing wiring. Eleven inch color-coded leadwires.

Model No	Switching	Includes Replacement Relay	VA	Transformer Primary	Secondary	Application
R8285A1048*	SPDT	R8222B	40	120V	26.5V	For single or 2-speed fan

\*Tradeline Model

Full Load @ 24 Vac	Full Load @ 120 Vac	Locked Rotor @ 24 Vac	Locked Rotor @ 120 Vac
6.9	13.8	41.4	82.8

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	72273	R8285A1048/U CONTROL CENTER SPDT 40VA	—	—

## Honeywell R8330D Electric Furnace Sequencer



One control switches a fan and up to 3 elements On and Off in sequence. Isolated fan switch has positive interlock to assure fan is on when the element is on, and fan is off when the last element is off. Cycles On within 2 minutes and Off within 4 minutes. Ten second minimum delay between stages (make sequence and break sequence).  
**Includes:** Mounting hardware, terminal adapter, replacement quick-connects, and jumper leadwires.

**Dimensions:** 3-1/16" H x 4-13/16" W x 2-11/32" D.

**Ambient Temperature Range:** -20° to 150° F.

**Control Voltage:** 24Vac, 0.04 amp.

**Stages:** 3.

**Switches:** 4.

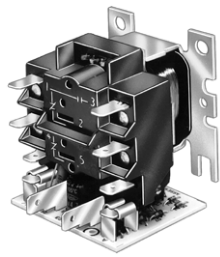
**Thermostat Anticipator Setting:** 0.4A (constant).

U.L. Listed.

Timing meets EEI-NEMA and ARI 280 standards.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	72522	R8330D1039/U SEQUENCER	—	—

## Honeywell ST82D Fan Manager



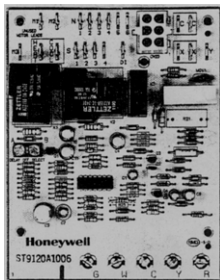
For use in compressor-run air conditioning and heat pump systems. Delays the indoor blower shut-off after the compressor has shut off. ST82D includes an R8222 Relay with electronic time delay board. Molded terminal numbers and circuit diagram on top of relay and letter-coded terminals on time delay board provide easy identification for wiring and system checkout. Laminated magnet construction for high efficiency.

**Delay Timing:** 80 seconds.  
**Ambient Temperature Range:** -20° to +150° F.  
**Maximum Humidity Rating:** 95% RH.  
**Approximate Dimensions:** 2-7/32" H x 2-1/16" W x 2-9/16" D.  
**Relay Terminals:** 1/4" quick connects.  
**Coil Ratings:**  
 Inrush: 20VA maximum.  
 Sealed: 11VA maximum.  
 U.L. Listed.

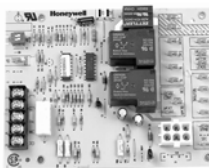
	120 Vac	208/240 277 Vac	480 Vac
Full Load	12	6	3
Locked Rotor	60	35	18
Resistive	15	15	10
Horsepower	3/4	3/4	3/4

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
20	EA	72767	ST82D 1004 SPDT TIME DELAY RELAY	—

## Honeywell ST9120U Universal Electronic Fan Timer



This universal timer integrates control of all combustion blower and circulating fan operations in a gas warm air appliance but also replaces all other existing Honeywell fan timer boards. This timer has a replaceable fuse and DIP switch with selectable heat and cool delay. It also features diagnostic LED and continuous EAC and HUM terminal connections.



The ST9120U1011 monitors the thermostat for heat, cool and fan demands, runs the induced draft blower motor and runs the circulating fan (up to two speeds) as needed. It also monitors limit switch strings and energizes ignition control.

On/Off Delay Settings (field adjustable):

- Heating delay on: 30 or 60 seconds
- Heating delay off: 60, 120, 150, or 180 seconds
- Cooling delay on: 4 or 30 seconds
- Cooling delay off: 30 or 60 seconds

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	72775	ST9120U1011/U UNIVERSAL ELECTRONIC FAN TIMER	—



## General Purpose Relays



43007



43013

For motor starting circuits up to 1 HP. Relays feature 5/16" diameter silver contacts for long life, reinforced screw terminals, tough phenolic base, and plastic enclosed coil minimizes damage, and resists dirt and moisture.

**Metal Dustcover Dimensions:** 4-7/8" L x 3-7/8" W x 3" H.

Mars	Potter & Blumfield	Deltrol
43004	PR5AY0-24V	20239-82D
43007	PR7AY0-24V	20240-82D
43013	PR11AY0-24V	20241-82D
43014	PF11AY0-120V	20241-83D

### Relays

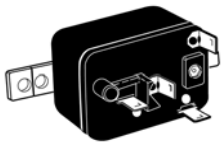
Nominal Power	Coil Voltage	Amps	Coil Resistance in Ohms	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
9.8 VA	24	25	12	1	EA	75340	43013 DPDT 24 V RELAY	—
9.8 VA	120	25	290	1	EA	75341	43014 DPDT 120V RELAY	—
9.8 VA	24	25	12	1	EA	75347	43004 SPDT 24V RELAY	—
9.8 VA	24	25	12	1	EA	75350	43007 DPST-NO 24V RELAY	—

### Metal Dustcover for Relays

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75343	43016 RELAY COVER	—



## General Purpose Relays



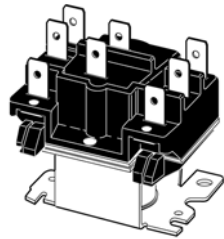
Relays are totally enclosed. Relay comes single pole normally open (SPNO) or single pole double throw (SPDT). Used for switching single or two speed fan motors, solenoids, relays, resistive loads, and general purpose switching. With quick-connects.

Model No.	Normally Open Coil Voltage	Contact Rating 125/250 VAC	
		Inductive	Resistive
<b>SPNO</b>			
90290Q	24	8 Amps	16 Amps
90291Q	115/120	Continuous	Continuous
90292Q	230/240	25 Amps Inrush	
<b>SPDT</b>			
90293	24	8 Amps	8 Amps
90294	115/120	Continuous	Continuous
90295	230/240	18 Amps Inrush	

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94766	90-290Q RELAY	—
1	EA	94767	90-291Q RELAY	—
1	EA	94768	90-292Q RELAY	—
1	EA	94769	90-293Q RELAY	—
1	EA	94770	90-294Q RELAY	—
1	EA	94771	90-295Q RELAY	—



**White** **Rodgers** **Motor Switching Relays**  
**RBM Type 91**

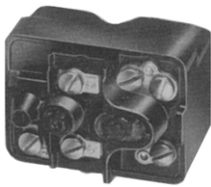


A two pole double throw semi-enclosed relay. Easy to install and wire. Relay available for power or pilot duty. Suited for vending machines, appliances, fan controls, heating and air conditioning applications, and general purpose switching. Approximate size: 2-1/8" x 1-7/8" x 2-1/4".

A.C. Voltage	Contact Rating (Per Pole)			
	Power		Pilot	
	Inductive	Resistive	Inductive	Resistive
125	13.8A 1/2 HP 12 A. Full Load 82.8 A. Inrush	15 A.	1/10 HP 125 V.A.	3 A.
250	1/2 HP 6 A. Full Load 35 A. Inrush 15 A.	15 A.	1/10 HP 125 V.A.	3 A.
277	@ 75% (Power Factor)	15 A.	—	3 A.

Coil Voltage (60 Cycle)	Terminals 1-2-3	Terminals 4-5-6	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
24	Power	Power	1	EA	94763	90-340 MOTOR SWITCHING RELAY	—
208/240	Pilot	Pilot	1	EA	94765	90-342 MOTOR SWITCHING RELAY	—

**White** **Rodgers** **Switching Relay**  
**RBM Type 129000**



**Contacts:** 1 SPNO, 1 SPNC  
**Coil Voltage (60 Hz):** 24  
**Coil Data:**

- 45.7 DC Res
- 167 MA
- 4 Nom VA
- 8 Inrush VA

**Coils, Duty Cycle:** Continuous

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94706	90-105 SHUNT RELAY	—

**Honeywell H46D and E Humidity Controllers**



Provides automatic control of a humidifier or dehumidifier. For dehumidification and mildew control in air conditioning systems. Positive On-Off settings for manual operation. Wall-mounted. SPST, snap-acting switch.

**Fixed Differential:** 4 to 6% RH.  
**Pilot Duty:** 50 VA at 24 Vac.  
**Sensing Element:** Moisture-sensitive nylon ribbon.  
**Operating Temperature Range:** 50° to 125° F.  
**Dimensions:**  
 4-11/16" H x 2-15/16" W x 2-1/8" D.  
 U.L. Listed.

Model No.	For Use On	Range (Percent RH)	Connection	Switch Action	Includes
H46D 1032*	Humidifiers	10 to 60	Leadwires, 6" nominal	Makes on RH fall to set point minus differential	Adapter plate for vertical switch box mounting
H46E 1013*	Dehumidifiers	20 to 80	3 wire cord and interrupter plug	Makes on RH rise to set point	Case and cover with knob for wall mounting

\*Tradeline Models

Pilot Duty: 50 VA at 24 Vac.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	70411	H46D1214/U HUMIDISTAT WHITE	—	—
12	EA	70413	H46E 1013 HUMIDISTAT	—	—

## Honeywell H205A Enthalpy Control



Used to control amount of outside air brought into the system, with respect to "total" heat content or enthalpy of outside air. Combines temperature and humidity sensors in a single device.

**Humidity Sensor:** Thin nylon ribbon.

**Temperature Sensing Element:** Liquid filled bulb mounted on back of control.

**Switching Action:** SPDT terminals 2 (red) and 1 (yellow) make on enthalpy increase; terminals 2 (red) and 3 (blue) make on enthalpy decrease to set point.

### Approximate Control Ranges

Dial Setting	20% RH		50% RH		80% RH	
	F	C	F	C	F	C
A (Max., Full CW)	78	26	73	23	68	20
B	73	23	68	20	63	17
C	68	20	63	17	59	15
D (Min., Full CCW)	62	17	58	14	53	12

**Mount:** in any position inside an outdoor air duct.

**Operating Ambient Temperature:** 150° F.

**Includes:** Case and cover, mounting plate, adjustable knob, and scale.

U.L. Listed.

**H205A 1012:** For use in electromechanical systems, such as the W859D Economizer Control Package.

**H205A 1046:** For use with electronic systems.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	70422	H205A 1012 ENTHALPY CONTROL	—
4	EA	70423	H205A 1046 ENTHALPY CONTROL	—

## Honeywell H600A Humidifier Controller



The H600A operates humidification equipment on RH fall or dehumidification equipment on RH rise. SPDT, snap-acting switch. Removable setting knob prevents tampering.

**Sensing Element:** Moisture-sensitive nylon ribbon provides reliable operation even when ambient temperature conditions

**Mounting:** Vertically on 2" x 4" junction box (not to be duct mounted). Includes alternate scale and faceplate for horizontal mounting. change.

### Electrical Ratings (Amperes)

	Dehumidifier (Red to Yellow)		Humidifier (Red to Blue)	
	120 Vac	240 Vac	120 Vac	240 Vac
Full Load	7.5	3.8	4.4	2.2
Locked Rotor	30.0	15.0	26.4	13.2
Resistive	12.0	16.0	12.0	6.0

**Maximum Ambient Temperature:** 125° F.

**Range:** 20 to 80% RH.

**Fixed Differential:** 5% RH.

**Dimensions:** 6-3/16" H x 3-3/8" W x 2-1/4" D.

U.L. Listed.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	70425	H600A1014/U HUMIDISTAT	—

# Honeywell H705A Solid State Enthalpy Controller



Provides changeover control in Economizer systems; use in electronic or electromechanical systems. The H705A solid state enthalpy control maximizes the use of free outdoor air in place of the first stage of cooling HVAC economizer systems.

**Approximate Dimensions:** 4-11/16" W x 2-3/8" H x 6-7/16" D.

**Ambient Temperature Range:** -25 to +125° F.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	70479	H705A1003/U ENTHALPY CONTROLLER	—

# Honeywell Outdoor Sensor for H1008

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	70300	C7089H 1007 OUTDOOR SENSOR F/H1008	—

# Honeywell H8908 Humidistat



The H8908 Humidistat provides automatic low voltage control of humidifiers in central heating and air conditioning systems. They have a SPST, snap-acting, dust-proof switch and are designed for wall or surface duct mounting.

The styling of the H8908 is designed to blend with the T8600 family of Honeywell Chronotherm IV™ Deluxe Programmable Thermostats. The H8908 can also be mounted at any other convenient location in the living area or equipment room.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
20	EA	78183	H8908ASPST/U HUMIDISTAT CONTROL	—

# JOHNSON CONTROLS W43A Humidistat



SPDT contact action provides control of humidifying or dehumidifying equipment with the same control. Operating element is composed of many strands of specially treated human hair. Flush mounting bracket to fit standard outlet box supplied.

Type 843 has field adjustable high and low limit stop; stops can be set for locked setting. Knob adjustment with visible dial.

Includes faceplate for horizontal mounting. The plate is for on-the-job installation over vertical plate. Can field converted to concealed adjustment, specify plate kit PLT333-12R (vertical) or PLT333-9R (horizontal).

Motor Ratings	120 V.	208 V.	240 V.
A.C. Full Load Amps.	6.0	3.5	3.0
A.C. Locked Rotor Amps	36.0	21.0	18.0
Pilot Duty - 125 VA 24 to 277 Vac			

**Maximum Operating Ambient:** 100° F

**Range:** 0 to 70% RH

**Diff. R.H.:** Approx. 4%

**Voltage:** Low or Line

Former Model No.	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
843	1	EA	75463	W43A-14C HUMIDISTAT	—

# Honeywell L4064B and W Fan and Limit Control



For control of high limit and fan motors in all types of forced air heating systems. Three wiring terminal options available for easy installation: push-in receptacles for stripped wire; female receptacles for 1/4" male flag connections; and field add-on screw terminals. Controls adapt to many competitive mounting holes in replacement applications. Available in a variety of fan and high limit setting ranges. L4064B and W models have manual fan switch that overrides fan control to keep fan running continuously.

**Electrical Ratings (Amperes)**

	120 Vac		240 Vac	
	Fan	Limit	Fan	Limit
Full Load	14	8	7	4
Locked Rotor	84	48	42	24

**Pilot Duty:** 2 amp at 24 Vac; 0.25 amp at 0.25 to Vdc.

**Maximum Combined Connected Load:** 2000 VA.

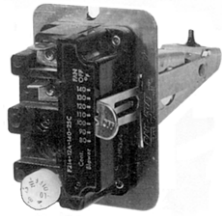
U.L. Listed (L4064B).

U.L. Component Recognized (W).

	L4064B		L4064W	
	F	C	F	C
High Limit Range	50 to 250	10 to 121	50-250	10-121
High Limit Differential	25, Fixed	14, Fixed	25, Fixed	14, Fixed
Fan Setting Range	65 to 215	18 to 102	Fan Comes on 20-90 seconds after call for heat	
On	50 to 200	10 to 96		
Off				
Fan Differential	22 min., Adj.	12 min., Adj.	—	—

Model	Tube Length (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
Tradeline	11-1/2	12	EA	70662	L4064B2210/U 11 1/2" FAN & LIMIT	—	—
Super Tradeline	5	12	EA	70666	L4064B 1469 5" FAN & LIMIT	—	—
—	8	12	EA	70667	L4064B2236/U 8" FAN & LIMIT	—	—
Tradeline	5	12	EA	70668	L4064B2228/U 5" FAN & LIMIT	—	—
Tradeline	11-1/2	12	EA	70674	L4064W1106/U 11 1/2" FAN & LIMIT	—	—

# CAM-STAT® Fan and Limit Controls



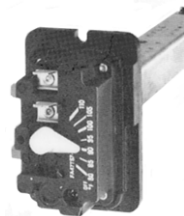
F214

### Series F214

Fan control may be used to replace any of the following controls: F14-10A, F14-11A, F14-12A, F214-10A, F214-11A, F214-12A.

### Series FA47TS

Time Start Fan Control  
 Replaces all F47TS Series Controls.  
 These are special fan controls with a built-in "heat assist" timer. The time delay turns on the blower as a function of time and/or temperature after the room thermostat calls for heat and turns off the blower as a function of temperature at the indicated dial setting of the fan.



FA47TS7

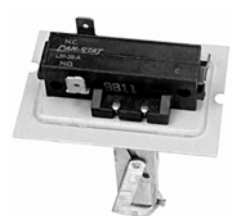


FALTS57C

### Series FALTS

Combination Fan and Limit Controls with Time Start Delay  
 These Combination Fan and Limit Controls include a time start fan control ("heat assist"). The time delay turns on the blowers as a function of time and/or temperature after the room thermostat calls for heat and turns off the blower as a function of temperature at the indicated dial setting of the fan.

The limit portion will limit the temperature of the furnace to a safe operating temperature. A limit temperature adjustment is provided to match the setting of the old device being replaced.



L59 Limit Control

Type Control	Fan Range Degree F	Adjustment Degree F	Time Delay (Seconds)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
Fan & Limit	90 to 120	25 to 50	—	1	EA	75604	FAL3C05TD120A 3IN 150-250 DEG FAN & LIMIT CTL	—
Fan & Limit	90 to 120	25 to 50	—	1	EA	75605	FAL7C-05TD-120-A 7IN 120-250 DEG FAN & LIMIT CTL	—
Fan w/Timer	80 to 110	60 Fixed	25 to 60	1	EA	75606	FA47TS7-110 7IN 25-60 SEC CAMSTAT FAN CTL	—
Limit	—	30 Fixed	—	1	EA	75608	L593BA 3IN 120-250 DEG CAMSTAT LIMIT CTL	—
Limit	—	30 Fixed	—	1	EA	75609	L597BA 7IN 120-250 DEG CAMSTAT LIMIT CTL	—
Fan	60 to 140	25 to 45	—	1	EA	75613	F214-13A-140-25C 7IN 90-120 DEG FAN OFF CAMSTAT FAN CTL	—
Fan & Limit	90 to 120	—	Preset	1	EA	75614	FALTS57C-05T-120 -A 7IN 150-250 LIMIT TMP FAN & LIMIT CTL	—
Fan & Limit	90 to 120	—	Preset	1	EA	75619	FALTS57C-65T-120 A 7IN 150-250 LIMIT TMP FAN & LIMIT CTL W/SHIELD	—
Fan w/Timer	80 to 110	60 Fixed	25 to 60	1	EA	75620	FA47TS3-110 3IN 25-60 SEC CAMSTAT FAN CTL	—



## 39031 and 39032 Limit Heating Disc Thermostats



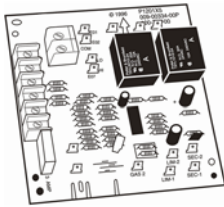
Each 3/4" thermostat has an integral oval flange to match the most commonly used mounting option. Thermostats have .25" quick-connect terminals, with adapters supplied for conversion to screw-type terminals. These limit switches open on temperature rise.

Model No.	Temperature Settings	
	Close (°F)	Open (°F)
39031	260	300
39032	285	325

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	93828	39031 (L300-4) LIMIT HEATING THERMOSTAT	—
1	EA	93829	39032 (L325-4) LIMIT HEATING THERMOSTAT	—



## 271 and 275 Fan Control Centers for Carrier/BDP



The ICM 271 and 275 Fan Control Centers are solid state controls designed and engineered specially to replace the Carrier/BDP Gas Furnace Control Centers. They have the same features and functions as the current Carrier/BDP replacement (HH84AA020 and HH84AA021). These are exact replacements requiring no modifications to the original wiring or to the appliance sheet metal.

The 271 and 275 have 24 volt circuits and are fuse protected. A 3 amp automotive type fuse is used to protect the thermostat and transformer circuits from shorts.

**Input Voltage:**

Terminals PR-1, PR-2, L1, and L2: 120 Vac  
 Terminals SEC-1 and SEC-2: 18-36 Vac

**Line Frequency:** 60 Hz.

**Operating Temperature:** -40 to 176° F.

**Maximum Operating Humidity:** 95% RH.

**ICM to Carrier/BDP Cross Reference**

271		
CESO11001	HH84AA011	HH84AA020
CESO110018	HH84AA012	P771-7002
HH84AA010	HH84AA013	302075-3
275		
CESO11001	HH84AA005	HH84AA015
HH84AA001	HH84AA009	HH84AA021
HH84AA003	HH84AA014	

**Time Delay Timings**

	271	275
Heat On	75 sec.	60 sec.
Heat Off	105 sec.	80 sec. to 4 min.
Cool Off	90 sec.	90 sec.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75512	ICM271 695-100 FAN CONTROL CENTER	—
1	EA	75513	ICM275 695-101 FAN CONTROL CENTER	—



## 277C Furnace Control Board for Goodman



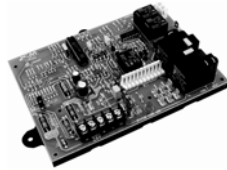
- Microprocessor-based fan blower
- For circulating fan in heat pump, A/C and forced air systems

- **Voltage:** 18-30 VAC
- **Contact Ratings:**  
 N.O.: 20 amps  
 N.C.: 10 amps
- **Time Delays:**  
 Blower On: 7 second  
 Blower Off: 65 seconds
- **Fan (Heat) On/Off Delay:** 1 second
- Replaces boards for B1370735S and PCBFM131S

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75697	ICM277C CONTROL BOARD B1370735S/ CONTROL BOARD	—



## 282 Furnace Control Board for Carrier/HK



- Controls gas valve, ignitor, blower motor, inducer, humidifier and air cleaner
- Microprocessor-based
- Designed for 100% gas shutoff in case of ignition failure
- Twinning compatible with another ICM282 board
- Reverse polarity protection
- Secondary brownout voltage protection
- Compatible with 24 VAC standard thermostat
- Diagnostic fault codes (blinking LED) to aid in troubleshooting
- **Operating Temperature:** -40 to 176° F
- **Humidity:** 5 to 95% R.H.
- **Voltage Range:** Line 98 to 132 VAC at 60 Hz
- **Time Delays:**  
Heat Blower On: 60 seconds  
Heat Blower Off: 90, 120, 150, and 180 seconds  
Cool On: 2 seconds  
Cool Off: 90 seconds
- Replaces boards for HK42FZ004, 007, 008, 009, 013, 016, and 325878-751

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75677	ICM282 CONTROL BOARD	—



## 286 Furnace Control Board for Goodman

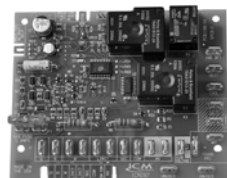


- Microprocessor-based precision
- Controls inducer and blower fan motors, hot surface ignitor and gas valve
- Monitors timing, trial for ignition, flame sensing, pressure and limit switches, and lockout
- 100% gas shut-off in case of ignition failure
- Reverse polarity protection
- Compatible with LP or natural gas
- Diagnostic LED to aid in testing and troubleshooting
- **Trial for Ignition:** 7 seconds
- **Pre-Purge Time:** 15 seconds
- **Ignitor Warm-up Time:** 7 seconds
- **Post-Purge Time:** 15 seconds
- **Trials for Ignition:** 3 (auto rest after 1 hour)
- **Heat Blower On:** 30 second
- **Heat Blower Off:** Selectable 90/120/150/180
- **Fan Delay:**  
Heat On/Off: 1 second  
Cool On: 5 seconds  
Cool Off: 45 seconds
- Replaces boards for PCBBF112S, B18099-26S and 0130F00005S

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75696	ICM286 CONTROL BOARD PCBBF112S/ CONTROL BOARD	—



## 287 Furnace Control Board for Goodman



- Microprocessor-based
- Controls inducer and blower control
- Monitors timing and gas valve
- Diagnostic LEDs to aid in testing and troubleshooting
- **Line Voltage:** 120 VAC @ 60 Hz
- **Control Voltage:** 24 VAC @ 60 Hz
- **Heat Blower:** 10A, 120 VAC
- **Cool Blower:** 30A, 120 VAC
- **Inducer Blower:** 30A, 120 VAC
- Replacement for Goodman board B18099-04

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75699	ICM287 CONTROL BOARD	—



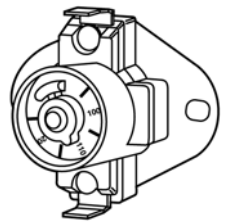
## 318C Defrost Control Board for Goodman



- Low cost, time and temperature defrost
- Time and temperature terminate
- Test pins: 256x's reduction in test time
- HOLD input tracks compressor run times
- High power output (1/2 HP fan @ 240 VAC)
- Strip heat, reversing valve outputs (24 VAC, 1 amp)
- **Voltage:** 18-30 VAC
- **Frequency:** 50-60 Hz
- **Outdoor Fan Relay Output:** 1/2 Hp fan @ 240 VAC
- **Strip Heat, Reversing Valve Outputs:** 24 VAC, 1 amp
- **Defrost Time:** 10-minutes fixed
- **Interval Times:** Pin-selectable 30/60/80 minutes
- Replacement for Goodman board B1226008

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75698	ICM318C CONTROL BOARD	—

White  
Rodgers



## 3F05 Fan and 3L05 Limit Adjustable Snap-Disc Controls

This adjustable snap disc thermostat allows you to set the temperature set point to match specific needs and features 1/4" quick connect terminals. Replaces the majority of fixed disc thermostats on heating equipment and various appliances. 2 adjustable fan control models replace 7 fixed Snap Disc models. 3 adjustable limit control models replace 10 fixed Snap Disc models.

**Package Includes:** Thermostat, tab-to-screw terminals, adapter bracket, and mounting screws.

Model No.	Type	Range (° F)	Diff.	Switch
3F05-1	Fan Controls	90-130	20	SPST
3F05-2	(Close on Rise)	140-180	20	SPST
3L05-1	Limit Controls	135-175	40	SPST
3L05-2	(Open on Rise)	175-215	40	SPST
3L05-3		210-250	40	SPST

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75815	3F05-1 3/4IN SPST CLOSE ON RISE FAN CONTROL	—
1	EA	75816	3F05-2 3/4IN SPST CLOSE ON RISE 140F TO 180 FAN CTL	—
1	EA	75817	3L05-1 SPST OPEN ON RISE 135F TO 175 RANGE LIMIT CTL	—
1	EA	75818	3L05-2 SPST 175F TO 215 LIMIT CTL	—
1	EA	75819	3L05-3 SPST 210F-250 LIMIT CONTROL	—



White  
Rodgers

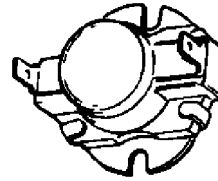
### 3F01 Fan and 3L01 Limit Snap-Disc Controls



Front View



Reverse View



Standard Mounting



Tab-to-Screw

Models available for regulation of fan or blower and for high limit safety control. Designed for quick on-job replacement. Last three numbers indicate cut-out temperatures on limits and cut-in temperatures on fan controls.

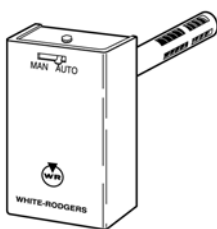
Features include mounting holes that match standard 3/4" snap discs and tab-to-screw terminal adaptors (included).

Model No.	Temperature Settings		Switch Action	Motor Rating		Valve & Relays 25 Vac
	Cut-In (F)	Cut-Out (F)		120 Vac	240 Vac	
<b>Fan Controls</b>						
3F01-110	110	90	Close on Rise	10A	5A	—
3F01-120	120	110	Close on Rise	10A	5A	—
3F01-130	130	115	Close on Rise	10A	5A	—
3F01-140	140	120	Close on Rise	10A	5A	—
3F01-150	150	130	Close on Rise	10A	5A	—
<b>Limit Controls</b>						
3L01-190	150	190	Open on Rise	10A	5A	—
3L01-200	160	200	Open on Rise	10A	5A	6A
<b>SPDT Controls</b>						
3L03-140	140	120	SPDT	10A	5A	6A

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75502	3F01-110 110 F	—
1	EA	75503	3F01-120 120 F	—
1	EA	75505	3F01-130 130 F	—
1	EA	75507	3F01-140 140 F	—
1	EA	75510	3F01-150 150 F	—
1	EA	75515	3L01-190 150 F CUT-OUT 190F OPEN LIMIT CONTROL	—
1	EA	75517	3L01-200 160 F CUT OUT 200F OPEN LIMIT CONTROL	—
1	EA	75518	3L03-140 140 F SINGLE PULL DOUBLE W/R LMT CONTROL	—

White  
Rodgers

### 5D51 Replacement Fan and Limit Controls



Single element type control for applications with narrow space limitations. Regulates fan or blower operation and acts as high limit safety control. Designed to be interchangeable with other flush mounted single element fan and limits. Features include slotted mounting holes for easy installation long terminal screws for wiring and removable solid copper jumper between fans and limit switches.

Limit switch has "universal" contact structure capable of handling millivolts to 240 Vac. Limit switch has adjustable stop to limit maximum setting. Summer fan switch for ventilation without changing control settings. Has same fan and limit switch mechanism.

Model No.	Type	Range °F	Diff.	Switch Action	Full Elec. Rating	Motor Rating (Full Load)		Valves and Relays	
						120 Vac	240 Vac	25 Vac	.3-12 Vdc
5D51	Fan	50 to 265	Adj. 15° F Minimum Fixed 25° F	Close on Rise	HT	14.0A	7.0A	—	—
	Limit	100 to 300		Open on Rise	HTV	10.0A	6.0A	6.0A	1.0A

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75529	5D51-35 5IN FAN & LIMIT	—
1	EA	75519	5D51-90 8IN FAN & LIMIT	—
1	EA	75530	5D51-78 11IN FAN & LIMIT	—

# Honeywell SV9500 and SV9501 Smart Valve™ System



Combines gas flow control and electronic intermittent pilot sequencing functions into a single unit. Suitable for a wide range of gas-fired appliances including furnaces, roof-top furnaces, boilers, unit heaters, infrared heaters, space heaters, and commercial cooking units. Replaces SV9500, SV9501, and SV9502 controls as noted below. Ignition sequence includes timed trail for ignition. AGA Design Certified, U70-24A.

## IMPORTANT!

*The Tradeline SV9501 Smart Valve models are replacement controls only for the SV9500, SV9501, and SV9502 models noted above. Do not use these controls to replace other types of intermittent pilot or direct ignition controls. Do not use these controls to replace SmartValve models not listed. The controls might fit, but the gas flow control functions might not be compatible with the appliance.*

Model No.	Inlet/Outlet Size (In.)	Pressure Regular Setting		Type of Opening	Type of Gas	Pre Purge (Seconds)	Post Purge (Seconds)
		In. wc	kPa				
SV9501M 2528	1/2 x 1/2	3.5	0.87	Standard	Natural	—	—
SV9501M 8129	1/2 x 1/2	3.4	0.87	Fast	Natural	—	—
SV9502H 2522	1/2 x 1/2	3.2	0.80	Slow	Natural	15	—
SV9520M 8513	1/2 x 1/2	3.5	0.87	Slow	Natural	15	—
SV9602P 4816	3/4 x 3/4	3.5	0.87	Step	Natural	30	—
SV9641M 4510	1/2 x 1/2	3.2	0.80	Standard	Natural	15	30

SV9501M 2528 Replaces			SV9501M 8129 Replaces		SV9502H 2552 Replaces	
SV9500M 2045	SV9500M 2686	SV9501M 2031	SV9500M 8600	SV9500H 2609		
SV9500M 2603	SV9500M 2690 <sup>b</sup>	SV9501M 2056 <sup>a</sup>	SV9500M 8618 <sup>b</sup>	SV9500H 2724		

<sup>a</sup> Regulator setting in replacement control differs from original. Adjust to rated pressure as necessary for optimum performance.

<sup>b</sup> Shipped by Honeywell as LP gas only; may have been converted to natural gas. Use natural to LP gas conversion kit (included) if necessary.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	73334	SV9502H2522/U SMART VALVE	—
1	EA	73335	SV9501M2528/U SMART VALVE	—
1	EA	73336	SV9501M8129/U SMART VALVE	—
20	EA	73337	Q3400A1024/U IGN/FLAME ROD ASSY.F/SV VALVES	—
1	EA	73338	SV9520H8513/U SMART VALVE	—
1	EA	73396	SV9602P4816/U SMART VALVE	—
1	EA	73397	SV9641M4510/U SMART VALVE	—

# Honeywell V48A and V88A Diaphragm Gas Valves



Solenoid operated diaphragm valves for controlling fuel gases. Used with LP, natural, or manufactured gases. Cast aluminum valves. Closes on power failure. Recommended for final shutoff service.

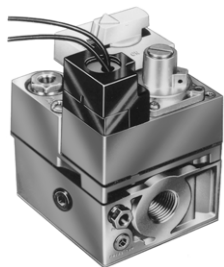
- U.L. listed.
- Industrial Risk Insurers (formerly FIA) acceptable.
- AGA Design Certified.

- **Valve Pattern:** Straight-through.
- **Bleed Tapping:** 1/8-27 NPT or 1/8-28 BSP.P1.
- **Valve Closing Time:** One second max. for 3/4 through 1-1/2" valves. Two second max. for 2" through 3" valves at 2 oz./in. pressure.
- **Valve Opening Time:** 5 seconds max. at 2 oz./in.
- **Ambient Temperature Rating:** 32 to 125° F.

Model No.	Size (In.)	Capacity*		Voltage	Maximum Sustained Pressure	
		cfh	m <sup>3</sup> /hr		psi	kPa
V48A 2151	3/4	668	18.9	120V, 50/60 Hz	1/2	3.4
V48A 2169	1	1021	28.9			
V48A 2177	1-1/4	2100	59.5			
V28A 2276	1-1/2	2400	67.9	120V, 50/60 Hz	1	6.9
V88A 1618	1	1021	28.9	24V, 60 Hz	1/2	3.4
V88A 1626	1-1/4	2100	59.5			
V88A 1659	3/4	668	18.9			
V88A 1667	3/4	668	18.9	24V, 60 Hz	1	6.9
V88A 1675	1	1021	28.9			

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	73349	V48A 2169 1IN 120V GAS VALVE	—
10	EA	73351	V48A2151/U 3/4IN 120V GAS VALVE	—
6	EA	73352	V48A 2177 1-1/4IN 120V GAS VALVE	—
6	EA	73355	V48A 2276 1-1/2IN 120V GAS VALVE	—
10	EA	73455	V88A1618/U 1IN 24V GAS VALVE	—
6	EA	73456	V88A1626/U 1-1/4IN 24V GAS VALVE	—
10	EA	73458	V88A1659/U 3/4IN 24V GAS VALVE	—
10	EA	73459	V88A 1667 3/4IN 24V GAS VALVE	—
10	EA	73460	V88A 1675 1IN 24V GAS VALVE	—
1	EA	74568	126590 ADJ BLEED VALVE ASSY	—

# Honeywell V400A Combination Gas Control



Provides complete control of gas-fired central furnaces and boilers. This automatic 120V control is color-coded black to identify 120V operation and has 36" lead wires. This combination gas control is easy to install, adjust, and service. Gas cock knob, wiring connections, pressure regulator, pilot gas adjustments, and thermocouple connection are all on top of control for easy access. Valve operators and pressure regulators are easily replaced with a screwdriver. Inlet/Outlet Size: 3/4" x 3/4". Setting: 3/5" wc (0.87 kPa).

**Capacity\***, \*\*: 335 cfh (9.5 m<sup>3</sup>/hr.). Pressure regulator and one 1/2" x 3/8" reducer bushings/adapters.

**Kind of Gas:** Natural.

**Includes:** Two 3/4" x 1/2" and one 1/2" x 3/8" reducer bushings.

U.L. Listed.

AGA Design Certified.

\*1000 BTU/ft 3.0 .64 sp gr Nat. gas at 1" wc p.d. (37.3 MJ/m 3, 0.64 sp gr Nat. Gas at 0.25 kPa P.d.).

\*\*Use of reducer bushings resulting in 3/4" x 1/2" inlet-outlet size reduces capacity to 225 cfh; use of reducer bushings resulting in 1/2" x 3/8" inlet-outlet size reduces capacity to 100 cfh.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73471	V400A1095/U GAS CONTROL	—	—

## Honeywell V800A Combination Gas Controls



Provides complete control of gas-fired central furnaces and boilers. Externally removable Pilotstat power unit; pilot flow adjustment screw. Complete safety shutoff on pilot flame failure. Automatic 24V control, use with 30mV thermocouple.

Valve is color-coded blue to identify 24V operation. Terminal block has 3 combination screw and 1/4" quick-connect terminals. Current draw is 0.2A. U.L. Component Recognized AGA Design Certified

Model No.	Inlet-Outlet Size	Capacity <sup>3</sup>		Pres. Reg. Setting (In. wc)	Tradeline Value	Includes
		cfh	M3/hr			
V800A 1070	1/2 x 3/4	250	7.1	3.5	Tradeline	One 3/4 x 1/2" and One 1/2 x 3/8" Reducer Bushing/Adapter <sup>4</sup>
V800A 1088 <sup>1</sup>	3/4 x 3/4	335	9.5	3.5	Super Tradeline	Two 3/4 x 1/2" and One 1/2 x 3/8" Reducer Bushing/Adapter <sup>4</sup>
V800A 1476 <sup>2</sup>	1/2 x 3/4	250	7.1	3.5	Tradeline	One 1/2 x 3/4" Reducer Bush/Adapter <sup>4</sup>

<sup>1</sup> Includes Q340 (36 in.) thermocouple with adapters.

<sup>2</sup> Straight through only. No side outlets.

<sup>3</sup> Rated at 1 w.c. p.d. Natural gas.

<sup>4</sup> Use of reducer bushings resulting in 3/4 x 1/2" inlet-outlet size reduces capacity to 250 cfh (7.1 m3/hr); use of reducer bushings resulting in 1/2 x 3/8" inlet-outlet size reduces capacity to 110 cfh (3.1 m3/hr).

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73505	V800A 1476 GAS VALVE	—	—
12	EA	73506	V800A1088/U GAS VALVE	—	—
12	EA	73507	V800A1070/U GAS VALVE	—	—

## Honeywell V4046C Pilot Gas Valves

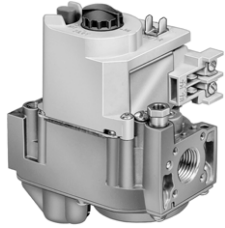


Provide on-off control of natural, LP, and manufactured gases to pilot burners in industrial and commercial applications. Unit is magnetically operated and is normally closed, provides instantaneous action when energized, and has a straight-through valve pattern. On power failure, valve closes in one second maximum. Use in any position, directly in pipe line or on support bracket. Replace the solenoid oil without removing the valve body from the piping connections. Available in line voltage or low voltage models.

**Ambient Temperature Range:** -40 to +125° F.  
**Maximum Operating Pressure:** 10 psi.  
**Power Consumption:** 8W at maximum rated voltage, 14 VA.

Capacity (cfh)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
20	20	EA	73586	V4046C1005/U GAS VALVE 1/8 NPT	—
67	20	EA	73585	V4046C1054/U GAS VALVE 3/8 NPT	—

# Honeywell VR8200A, C, and H Continuous Pilot Gas Control Dual Automatic Valve



Combination gas control for use in 24 Vac, gas-fired, standing pilot appliances with capacities from 20 to 200 cfh. Control includes manual valve, two automatic operators, servo pressure regulator, and pilot adjustment.

Meets codes requiring dual safety shut-off. Compatible with ECO adaptor. AGA Design Certified.

Model No.	Inlet-Outlet Size (In.)	A.G.A. Certified Capacity <sup>a</sup>		Pressure Reg. Setting		Type of Pressure Regulator	Type of Gas	Includes
		cfh	m3/hr	In. wc	kPa			
VR8200A 2124*	1/2 x 1/2	130	3.7	3.5	0.87	Standard	Nat.	1 - 3/4 in. straight flange, 1 - 1/2 in. x 3/8 in. reducer bushing, Q340 Thermocouple, Natural to LP Conversion Kit
VR8200A 2132*	1/2 x 1/2	130	3.7	3.5	0.87	Standard	Nat.	1 - 3/4 in. Straight Flange, 1 - 1/2 in. x 3/8 in. reducer bushing, Natural to LP Conversion Kit
VR8200C 1041	1/2 x 1/2	130	3.7	1.2 Step to 3.5	0.87	Step	Nat.	—
VR8200H 1251*	1/2 x 1/2	130	3.7	3.5	0.87	Slow Opening	Nat.	1 - 3/4 in. Straight Flange, 1 - 1/2 in. x 3/8 in. reducer bushing, Natural to LP Conversion Kit

\* Tradeline Model

<sup>a</sup>Rated for natural gas at 1 wc pressure drop.

## VR8200A, C, and H Gas Controls

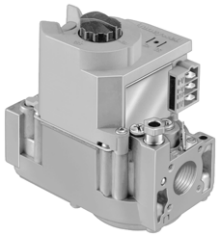
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73936	VR8200C1041/U COMB GAS CONTROL	—	—
12	EA	73937	VR8200H1251/U COMB GAS CONTROL	—	—
12	EA	73943	VR8200A2132/U COMB GAS CONTROL	—	—
12	EA	73944	VR8200A2124/U COMB GAS CONTROL	—	—

## Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	74652	393690-14 3/4 IN STRAIGHT FLANGE	—
2	EA	74797	393200-1/U ECO ADAPTOR	—

## Honeywell VR8204A, C, and H Intermittent Pilot Dual Gas Controls

### Automatic Valve Combination



Combination gas control for use in 24 Vac, gas-fired, intermittent pilot appliances with capacities from 20 to 200 cfh. Control includes manual valve, two automatic operators, servo pressure regulator, and pilot filter. For use with S86F and H control modules.

Provides dual-seated safety shut-off. Solenoid operated first automatic valve opens on thermostat call for heat; closes when call for heat ends. Diaphragm-operated second automatic valve opens under control of regulator; closes if gas or power supply is interrupted. On-Off lighting sequence.

**Mounting:** 0 to 90° from the upright position of gas control knob, including vertically.

**Body Pattern:** Straight-through with 1/2" inlets and outlets.

**Pressure Tapping:** 1/8" NPT with plug.

**Pressure Rating:** 1/2 PSI inlet pressure.

**Ambient Temperature Range:** 0 to 175° F.

**Supply Voltage:** 24Vac, 60 Hz.

**Thermostat Heat Anticipator Setting:** 0.5A.

**Wiring Connections:** 1/4" male quick-connects.

Model No.	Inlet-Outlet Size (In.)	A.G.A. Certified Capacity <sup>1</sup>		Pressure Reg. Setting		Type of Pressure Regulator	Type of Gas	Includes
		cfh	m3/hr	In. wc	kPa			
VR8204A 2076	1/2 x 1/2	150	4.2	3.5	0.87	Standard	Nat.	1/2 x 3/8" reducer bushing <sup>2</sup> , 393691 Nat. to LP Conv. Kit
VR8204C 1019	1/2 x 1/2	150	4.2	.09 step <sup>3</sup> 3.5 full rate	.022 stepc 0.87 full rate	Step Opening	Nat.	—
VR8204H 1006	1/2 x 1/2	150	4.2	3.5	0.87	Slow Opening	Nat.	—

<sup>1</sup> Capacity based on 1,000 BTU/Ft.3, 0.64 special gravity natural gas at 1" wc pressure drop.

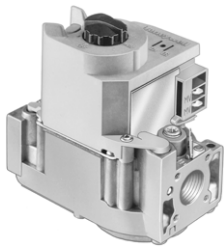
<sup>2</sup> Use of 1/2 x 3/8" reducer bushing reduces capacity to 130 cfh.

<sup>3</sup> Step pressure is not adjustable.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73945	VR8204C1019/U GAS VALVE	—	—
12	EA	73946	VR8204H1006/U GAS VALVE	—	—
12	EA	73947	VR8204A2076/U GAS VALVE	—	—

## Honeywell VR8205 Direct Ignition Combination Gas Controls

### Dual Automatic



Combination gas controls for use with hot surface/direct spark systems in 24 Vac, gas-fired appliances with capacities from 20 to 200 cfh. These controls include a manual valve, 2 automatic operators, and servo pressure regulator.

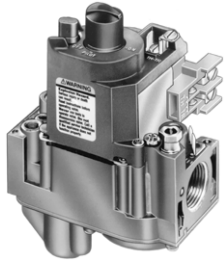
Model No.	Inlet-Outlet Size (In.)	A.G.A. Certified Capacity <sup>1</sup>		Pressure Reg. Setting		Type of Pressure Regulator	Type of Gas	Includes
		cfh	m3/hr	In. wc	kPa			
VR8205A 2024	1/2 x 1/2	150	4.3	3.5	0.87	Standard	Nat.	1/2" x 3/8" reducer bushing <sup>2</sup>
VR8205H 1003	1/2 x 1/2	150	4.3	3.5	0.87	Slow Opening	Nat.	---

<sup>1</sup> Capacities based on 1,000 BTU/Ft. 3,046 sp gr natural gas at 1" wc pressure drop (37.3 MJ/m3, sp gr natural gas at 0.25 kPa pressure drop).

<sup>2</sup> Use of 1/2" x 3/8" reducer bushing reduces capacity to 130 cfh (3.7 m3/Hr.)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73941	VR8205H1003/U GAS VALVE	—	—
12	EA	73948	VR8205A2024/U GAS VALVE	—	—

## Honeywell VR8300A Combination Gas Controls



**VR8300A:** Continuous pilot dual automatic valve combination gas control, 24V. For standing pilot appliances with capacities for 30 to 300 cfh.

**VR8300C:** Step Opening AGA Design Certified.

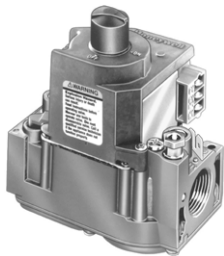
Model No.	Inlet-Outlet Size	Capacity <sup>1</sup> (cfh)	Pres. Reg. Setting (In. wc)	Kind of Gas	Includes
VR8300A 3500	1/2 x 3/4	190	3.5	Natural	393691 Natural to LP Gas Conv. Kit, One 3/4" x 1/2" Reducer Bushings <sup>2</sup>
VR8300A 4508	3/4 x 3/4	200	3.5	Natural	393691 Natural to LP Conv. Kit, Two 3/4" x 1/2" Reducer Bushing <sup>2</sup>
VR8300C 4506	3/4 x 3/4	190	3.5	Natural	3/4" x 1/2" Reducer Bushing

<sup>1</sup> Rated at 1 w.c. p.d. Natural gas.

<sup>2</sup> Use of 3/4 x 1/2" reducer bushing reduces capacity to 180 cfh (5.1 m3/hr.)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73515	VR8300A3500/U GAS VALVE	—	—
12	EA	73516	VR8300A4508/U GAS VALVE	—	—
12	EA	73961	VR8300C 4506 COMB GAS CONTROL	—	—

## Honeywell VR8304 Dual Automatic Gas Control



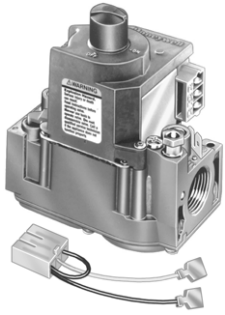
Combination gas control for use in 24 Vac, gas-fired, intermittent pilot appliances with capacities from 30 to 415 cfh.

Model No.	Inlet-Outlet Size (In.)	A.G.A. Certified Capacity <sup>1</sup>		Pressure Reg. Setting		Type of Pressure Regulator	Type of Gas	Includes
		cfh	m3/hr	In. wc	kPa			
VR8304H 4503	3/4 x 3/4	300	8.5	3.5	0.87	Slow Opening	Nat.	393691 Nat. to LP gas conversion kit
VR8304M 4507	3/4 x 3/4	300	8.5	3.5	0.87	Standard	Nat.	Two 3/4 x 1/2" reducer bushings; 393691 Nat. to LP conversion kit

<sup>1</sup> Capacity based on 1,000 BTU/Ft.3, 0.64 specific gravity natural gas at 1" wc pressure drop.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73949	VR8304M4507/U COMB GAS CONTROL	—	—
12	EA	73958	VR8304H1503/U COMB GAS CONTROL	—	—

## Honeywell VR8345 Universal Electronic Ignition Gas Control

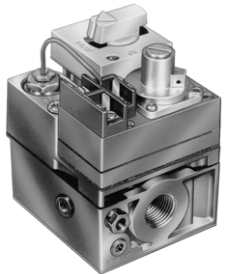


Universal electronic ignition gas valve replaces virtually all standard-opening IP, HSI, or DSI valves. Highest capacity (415,000 BTU max. reg., N.G.) of any electronic ignition valve in the industry.

Uses 2 simple adapters to convert between IP and HSI/DSI applications. 3/4 x 3/4 Inlet-Outlet size.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73520	VR8345M4302/U UNIVERSAL GAS VALVE	—	—
12	EA	73522	VR8345Q4563/U TWO STAGE GAS VALVE	—	—

## Honeywell VS820A Family Combination Gas Control



This self-powered automatic control provides complete control of gas-fired central furnaces and boilers. Use with 750 mV pilot generator. Externally removable Pilotstat power unit; pilot flow adjustment screw. Complete safety shutoff on pilot flame failure. Lite-Rite (Off Pilot-On) lighting sequence.

These combination gas controls are easy to install, adjust, and service. Gas cock knob, wiring connections, pressure regulator, pilot gas adjustments, and thermocouple connection are all on top of control for easy access. Valve operators and pressure regulators are easily replaced with a screwdriver.

Model No.	Inlet-Outlet Size (In.)	A.G.A. Certified Capacity		Pressure Reg. Setting		Type of Gas	Includes
		cfh	m <sup>3</sup> /hr	In. wc	kPa		
VS820A 1054	3/4 x 3/4	335	9.5	3.5	0.87	Nat.	Two 3/4 x 1/2" and One 1/2 x 3/8" Reducer Bushings Adapters <sup>2</sup>

<sup>1</sup> 1,000 BTU/Ft.3, 0.64 sp gr natural gas at 1 wc pressure drop (37.3M J/m3, 0.64 sp gr nat. gas at 0.25 kPa press. drop).

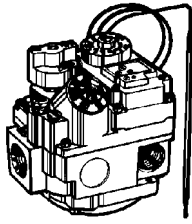
<sup>2</sup> Use of reducer bushings resulting in 3/4 x 1/2" inlet-outlet size reduces capacity to 225 cfh (6.4m3/Hr.); use of reducer bushings resulting in 1/2 x 3/8" inlet-outlet reduces capacity to 110 cfh (3.1m3/Hr.).

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	73950	VS820A1054/U GAS CONTROL	—	—





## 700-200 Series Gas Controls



The VH700-200 series Snap-Action hydraulic, combination heating gas burner controls are thermostatically operated by remote sensing bulb.

Two remote bulb types are available for this series. Models with the temperature adjusting dial on the valve has a 36" capillary. Models with remote temperature adjustment have dual capillaries. An 18" capillary runs from the valve to the sensing bulb and a 48" capillary runs from the bulb to the remote dial.

This control combines a manual valve, automatic pilot, pressure regulator (optional by model) snap-acting hydraulic operator, pilot outlet, filter, and adjustment key. All models have 3 position outlet. The automatic pilot valve is separate from the gas cock and provides gas shutoff in case of pilot outage. The electro magnet, A1750-018, is field replaceable.

Model No.	Factory Model	Inlet Size NPT (In.)	3 Position Outlet FPT**	Internal Capillary Length (In.)	Pressure Regulator Setting	Capacity*
700-202	7000ASR	1/2	1/2	36	3.5" W.C., Nat. Gas	100,000

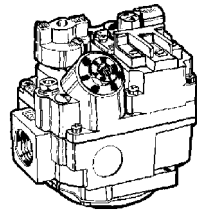
\* BTU/Hr. natural gas 1000BTU/Cu. Ft. 0.64 sp. gr. nat. gas @ 1" w.c. pd.

\*\* Includes (2) 1/2 to 3/8 NPT reducer bushings.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
8	EA	77298	700-202 R/S HYDRO VALVE	—



## 700-400 Series Gas Controls



24 volt combination heating gas burner controls. The 700-400 Series are wall thermostat (24V) actuated combination gas controls. The control combines a manual valve (gas cock), an automatic pilot valve, pressure regulator (optional by model), and a 24V silent operator. Pilot outlet, pilot gas filter, and pilot adjusting key are standard. The gas cock is the time-proven, dependable, tapered type. The control can be mounted in any position (except upside down) and models with 1/2 NPT inlet have 3-position outlet. The automatic pilot valve is separate from the gas cock and provides gas shut-off in case of pilot outage. The electromagnet is field replaceable.

**Transformer Note:** 20 VA transformer recommended for heating only and 40 VA recommended for combination heating and cooling.

**Valve Type:** 24 volt combination  
**Electrical Rating:** 24V/0.2 amps  
**Pressure Regulator (optional by model):** Factory set at 3.5" W.C  
**Pressure Tap:** 1/8 NPT  
**Pilot Outlet:** 1/4 Tubing  
**Gas Cock Dial Marking:** Off-Pilot-On  
**Terminal Type:** Combination Screw/Space  
**Manual Opener:** Optional by model  
**Maximum Ambient Temperature:** 175° F  
**Room Thermostat:** TH200 or TX400 Series  
**Recommended Thermocouple:** A1970 or A1900

Model No.	Factory Model	Inlet Size FPT	3-Position Outlet		Pressure Regulator Setting	Capacity**
			Straight Through FPT	Side FPT with Plugs		
700-401	7000BE	1/2	3/4	1/2	None*	240,000
700-406	7000BER	3/4	3/4	Through Only	Yes	300,000
700-442	7000ERHC	1	1	Straight Through Only	3.5" W.C. Nat. Gas	715,000

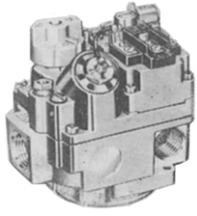
\* A separate pressure regulator may be required for the system.

\*\*1000 BTU/Cu. Ft. 0.64 sp. Gr. Natural gas or 2500 BTU/Cu. Ft. 1.53 sp. Gr. L.P. gas @ 1" W.C. pd.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77248	700-401 R/S COMBINATION VALVE	—
1	EA	77251	700-406 R/S COMBINATION VALVE	—
1	EA	77252	700-442 R/S COMBINATION VALVE	—



## 700-500 Series Gas Controls



700 millivolt heating gas burner controls.  
**Electrical Rating:** 250 MV to 750 MV  
**Pressure Regulator Operating Range** (Optional by Model): Factory set @ 3.5" W.C.  
**Pilot Outlet:** 1/4" tubing.

**Ambient Temperature:** -40° to 175° F  
**Max. Inlet Pressure:** 14" W.C. (1/2 PSI)  
**Gas Cock Dial Marking:** Off-Pilot-On  
**Terminal Type:** 1/4" Spade

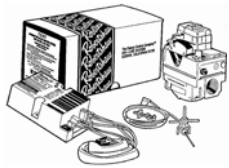
Model No.	Factory Model	Inlet Size FPT	3-Position Outlet		Pressure Regulator Setting	Capacity <sup>1</sup>
			Straight Through FPT	Side FPT with Plugs		
700-506	7000MVR	3/4	3/4	Straight-Thru	3.5" W.C. Nat. Gas	300,000

<sup>1</sup>1000 BTU/Cu. Ft. 0.64 sp. Gr. Natural gas or 2500 BTU/Cu. Ft. 1.53 sp. Gr. L.P. gas @ 1" W.C. pd.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77258	700-506 R/S COMBINATION VALVE	—



## 712 Series Flame Rectification Kits



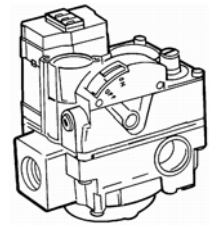
**Model 712-016**  
 Natural gas only, non-lockout, and pressure regulator is factory-set at 3.5" W.C. Field adjustable 3" to 7" W.C.  
**Gas Valve:** 7000D (700-056) 3/4" x 3/4"  
**Ignition Unit:** SP715 (780-715)  
 Non-lockout.  
**CAUTION:** Do not use on L.P. gas applications.

**Model 712-017**  
 Natural gas only, non-lockout, and pressure regulator is factory-set at 3.5" W.C. Field adjustable 3" to 7" W.C.  
**Gas Ignition:**  
 7100D (700-070) 1/2" x 3/4"  
**Ignition Unit:** SP715 (780-715) non-lockout.  
**CAUTION:** Do not use on L.P. gas applications.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77215	712-016 3/4 IN X 3/4 IN R/S IGNITION SYSTEM	—
1	EA	77216	712-017 1/2 IN X 3/4 IN R/S IGNITION SYSTEM	—



## 720 Series Pilot Ignition Gas Valve

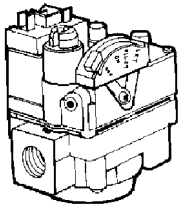


The 720 Series Valves are designed for intermittent pilot ignition applications. The valve incorporates a manual valve, pilot valve, dual automatic valves (2), and a main gas pressure regulator.  
 The 720 Series Valves are designed for many residential applications such as central heating units, space heaters, wall heaters, boilers, and mobile home furnaces. The valves have a compact swing radius of only 3-9/16" to enable it to fit a wide range of OEM replacement applications.

All the wiring connections, manual selector, and adjustments are readily available on the top of the control.  
**Inlet Size:** 1/2"  
**Outlet Size:** 3/4"  
**Electrical Rating:** 24Vac, 50/60 Hz., .45 amp  
**Ambient Temperature Range:** -40 to +175° F  
**Maximum Inlet Pressure:** 14" w.c. (1/2 PSI)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77243	720-079 R/S GAS VALVE	—

# Robertshaw® 720 Series Dual Valve Gas Controls



The 720 Series Dual Valve Gas Controls are designed for a wide variety of heating applications and can be used to replace most constant pilot valves, including dual valve (six function) model.

The 720 Series constant pilot gas valve is a six function valve incorporating a manual valve, safety shutoff magnet, dual automatic valves, main gas regulator, and pilot adjustments.

The 720 Series feature an integral manual selector used to select from the 4 gas flow positions: Off, On, Pilot, and Set. The Set position provides pilot only gas flow during magnet energizing and lock up. Built-in stops serve to prevent accidental setting to the Off position.

The wiring connections, manual selector, and adjustments are easily accessible on top of the valve. With a 3-9/16" swing radius, the 720 series lends itself well to replacing OEM valves. Controls are multiposition and can be mounted in any position (except upside down).

**Electrical Ratings:** 24Vac, 5 amps, 50/60 Hz

**Ambient Temperature:** -40 to 175° F

**Maximum Inlet Pressure:** 14" w.c. (1/2 PSI)

Model No.	Factory Model	Inlet Size (FPT)	Outlet Size (FPT)	Straight Through	Side Outlet 1/2" FPT with Plugs	Pressure Regulator Setting	Capacity*	Reducer Bushings Included
720-400	7200ER	1/2"	3/4"	X		UNI-KIT	150,000	(1) 3/4" x 1/2" (1) 1/2" x 3/8" (1) 3/4" x 3/8"
720-402	7200ER	1/2"	3/4"		X	UNI-KIT	150,000	(1) 3/4" x 1/2"
720-406	7200ER	3/4"	3/4"	X		UNI-KIT	150,000	(2) 3/4" x 1/2"

\* 1,000 BTU/Cu. Ft. 0.64 Sp. Gr. natural gas, or 2,500 BTU/Cu./Ft. 1.53 sp. gr. L.P. gas @ 1" W.C. pd.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77244	720-400 R/S GAS VALVE	—
1	EA	77245	720-402 R/S GAS VALVE	—
1	EA	77246	720-406 R/S GAS VALVE	—



## 780 Series Gas Ignition Controls



### 780-002/780-735

This kit has a lockout feature to shut off all gas to the furnace should pilot ignition fail to occur after a predetermined time period. The 780-002 provides 3 tries for ignition, each ignition period is 90 seconds followed by a 6 minute time delay between ignition attempts. After 3 tries if no pilot flame is sensed, unit goes into lockout and must be reset at the thermostat.

### 780-715

The automatic recycle features assure that in the event of flame failure main gas is disabled and the spark repetition sequence is restarted until pilot gas is ignited. Only after pilot ignition has been re-established can main gas be returned to the burner.

Replaces one rod and/or two rod systems.

Reduces truck stock inventory, saving space and money.

Induces vent damper adaptor assembly.

Easy to install with complete in-depth installations instructions.

**Input Voltage:** 24 VAC to 50/60 Hz

**Transformer:** 24 VAC/20 VA

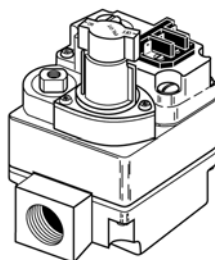
**Pilot Valve, Main Valve:** 1.5 at .4 PF

**Spark Rate:** 3 to 4 sparks per second

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77202	780-715 GAS IGNITION CONTROL REPLACES SP-715 (ARMSTRONG)	—
1	EA	77203	780-002 GAS IGNITION CONTROL REPLACES SP-735 (ARMSTRONG)	—
1	EA	77201	780-735 GAS IGNITION CONTROL	—



## 36C Gas Valves



For general purpose replacement. Valve may be mounted in any position except upside down. Both main valve seat and line-interrupter seal with line pressure, assuring positive gas seal-off. Inlet screen, pilot gas filter and top operated main valve provide maximum protection against chips and dirt. Gas cock knob, pilot adjust screw and regulator adjustment are on top of control.

**Electrical Rating:** 0.23 amps

**Ambient Operating Range:** -40 to +175° F.

**Maximum Pressure Rating:** 1/2 PSI (14.0" W.C.)

**Pilot Gas Connection:** 1/4" compression fitting furnished.

**Pressure Tap:** 1/8" NPT.

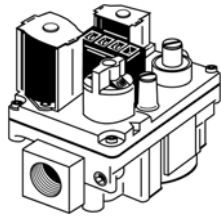
**Coil Voltage:** 24 VAC

Model No.	Applicatin	Inlet-Outlet Pipe Size (In.)	Reducer Bushing Kit Furnished	Opening Characteristic	1" Pressure Drop Capacity (Nat Gas) BTU/Hr.
36C03-300	Standing Pilot	1/2 x 3/4	Yes	Fast Open	230,000
36C03-333	Standing Pilot	1/2 x 3/4	Yes	Fast Open	230,000
36C03-433	Standing Pilot	3/4 x 3/4	Yes	Fast Open	280,000
36C94-303	Intermittent Ignition	1/2 x 3/4	No	Delay Slow	230,000

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6
1	EA	75526	36C03-300 1/2IN X 3/4IN GAS VALVE (NAT/LP)	—	—
1	EA	75527	36C03-333 1/2IN X 3/4IN GAS VALVE (NAT/LP)	—	—
1	EA	75528	36C03-433 3/4 X 3/4 GAS VALVE (NAT/LP)	—	—
1	EA	75820	36C94-303 1/2IN X 3/4IN 24VAC GAS VALVE	—	—

**White**  
**Rodgers**

**36E Gas Valves**



The 36E Redundant Gas Valve is a compact multifunction valve designed to meet the requirements for use with all types of intermittent ignition systems (cycle-pilot, proven pilot, direct spark ignition and hot surface ignition).

**Features:**

- Poppet style manual valve (capable of withstanding high inlet pressures).
- Conical inlet and outlet screens protected from pipe damage.
- Direct acting solenoid valve with high sealing force.
- Controlled gasket clinch between castings to withstand high inlet pressures.
- May be mounted horizontal, vertical and 90° from horizontal.
- Electrical Ratings: 0.54 amps.
- Regulator Adjustment Range: Natural gas, 2.5 to 5.0" W.C.
- L.P. gas, 7.5 to 12.0" W.C.
- Ambient Operating Range: -40 to +175° F.
- Maximum Pressure Rating: 1/2 PSI (14.0" W.C.)

Model No.	Capacity A.G.A. Standard Gas	Electrical Connection	Regulator Setting (In. W.C.)	Step Opening	Gas Type	System Usage	Reducer Bushing Kit	Side Taps
36E38-301	140,000	3 spade terminals 1/4"	3.5	1/2" W.C.	Natural	Proven Pilot, HSI and DSI	Yes	Yes
36E86-302	140,000	F115-0087	3.5	Fast Open No Step	Natural	Cycle Pilot	Yes	Yes

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6
1	EA	75596	36E38-301 1/2IN X 3/4IN GAS VALVE (NATURAL)	—	—
1	EA	75597	36E86-302 1/2IN X 3/4IN GAS VALVE (NATURAL)	—	—

**White**  
**Rodgers**

**36H Gas Valves**



The 36H series combination gas valve is designed with redundant and main solenoid valves that control gas flow to the main burners, a pressure regulator to maintain a constant outlet pressure, and a two position on/off switch for electrical shutoff.

- Type of Gas:** Natural Gas
- Ambient Temperature:** -40° to 175° F
- Pressure Rating:** 14" W.C. (1/2 PSI) max.
- Voltage:** 24 VAC
- Frequency:** 50/60 Hz
- Stages:** Single
- Proven Pilot:** Yes
- Pressure:** Natural
- Regulator:** 2.5-5.0" W.C.
- Pipe Size:** 3/4" x 3/4" NPT
- Capacity (BTU/Hr) at 1" Pressure Drop Across Valve:** 300,000

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6
1	EA	75781	36H32-304 1/2IN X 3/4IN 24 VAC GAS VALVE	—	—
1	EA	75782	36H33-412 3/4IN X 3/4IN 24 VAC GAS VALVE	—	—
1	EA	75822	36H32-423 3/4IN X 3/4IN 24V NAT/LP UNIVERSAL GAS VALVE	—	—
1	EA	75823	36H64-463 3/4IN X 3/4IN 24V 2 STAGE GAS VALVE	—	—

## White Rodgers

### 36J Universal Gas Valve



The 36J combination gas valve is designed for direct spark ignition (DSI) and hot surface ignition (HSI) system applications. This valve is equipped with redundant and main solenoid valves that control gas flow to the main burners, a pressure regulator and a two-position on/off switch for regulation and electrical shut-off of the solenoid valves. Also equipped with a slow-opening pressure regulator for softer lighting characteristics.

**Type of Gas:** Natural gas  
LP gas (use conversion kit)  
**Pressure Regulator Setting:**  
Nat. Gas: 2.5 to 5.0" W.C.  
LP Gas: 7.0 to 12.0" W.C.  
**Ambient Temperature:** -40 to 175° F  
**Pressure Rating:** 14" W.C.  
**Voltage:** 24 VAC  
**Frequency:** 50/60 Hz  
**Current:** .360 amps

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6
1	EA	75837	36J24-214 1/2IN X 1/2IN UNIVERSAL COMBINATION GAS VALVE	—	—
1	EA	75839	36J22-214 1/2IN X 1/2IN SNGL STG UNIVERSAL COMBINATION GAS VLV	—	—
1	EA	75840	36J24-614 1/2IN X 1/2IN SNGL STG COMBINATION GAS VALVE	—	—
1	EA	75841	36J54-214 1/2IN X 1/2IN 2STG COMBINATION GAS VALVE	—	—
1	EA	75842	36J55-214 1/2IN X 1/2IN 2STG COMBINATION GAS VALVE	—	—
1	EA	75843	36J55-614 1/2IN X 1/2IN 2STG COMBINATION GAS VALVE	—	—

## White Rodgers

### 37C Water Heater Gas Valves



- Automatic shut-off of main and pilot gas in the event of pilot failure
- Built-in E.C.O. (Energy Cut Off) non-cycling high limit
- Pilot gas cock with safe lighting feature and filter temperature adjustment
- Manifold pressure tap

**Inlet Size:** 1/2" NPT  
**Outlet Size:** 1/2" inverted flare  
**Outlet Adapter Fittings:** 1/2" inverted flare x 3/8" NPT reducer  
**Adapter:** 1/2" x 1/2" inverted flare outlet extension adapter  
**Mounting:** 3/4" NPT, 4-1/2" bulb insertion length  
**Pilot Connection:** 1/4" compression fitting

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6
1	EA	75826	37C73U-170 1/2IN N.P.T. INLET NAT GAS ONLY WATER HEATER CONTROL	—	—
1	EA	75827	37C73U-173 1/2IN N.P.T. INLET NAT GAS ONLY WATER HEATER CONTROL	—	—



## Jackes-Evans Valves and Coils



Select one valve body MM number and one coil MM number to make a complete assembly. These valve bodies and coils cannot be interchanged with the "J" series valves.

### Application Group

**Group A:** Water, air, light oils, Nos. 1 and 2 fuel oil, industrial gas, brine, and other non-corrosive fluids at temperatures from -20 to +240 ° F.

**Group C:** Water and steam service at 240° F, 1 to 10 psi steam.



### Diaphragm Symbol Identification

**T-F:** Teflon Coated Fiberglass

**B-N:** Nylon Reinforced BUNA "N"

### Valve Selection Chart

Model No.	Application Group	Connector (In.)	Orifice (In.)	Differential Op. Pressure		CV	Max. Temp.(°F)	Diaphragm	Watts AC
				Min.	Max.				
GP200	A	1/4 NPT	5/16	1	150	.98	225	B-N	9
GP400	A	1/2 NPT	1/2	1	150	3.60	225	B-N	9
GP407	C	1/2 NPT	1/2	1	150	3.60	240	T-F	9
GP600	A	3/4 NPT	3/4	1	150	7.40	225	B-N	9
GP607*	C	3/4 NPT	3/4	1	150	7.40	240	T-F	9
GP10	A	1 NPT	1	1	150	12.20	225	B-N	9

\* Supplied with stainless seats as standard.

### GP Valve Bodies

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77538	GP200 1/4IN JE VALVE	—
1	EA	77543	GP400 1/2IN JE VALVE	—
1	EA	77544	GP407 1/2IN JE VALVE	—
1	EA	77546	GP600 3/4IN JE VALVE	—
1	EA	77547	GP607 3/4IN JE VALVE	—
1	EA	77549	GP10A 1IN JE VALVE	—

### G23 Coils

1	EA	77558	G23 24V JE COIL	—
1	EA	77559	G23 110-120V JE COIL	—
1	EA	77560	G23 208-240V JE COIL	—

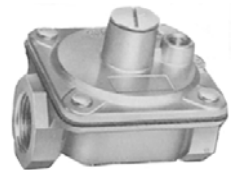


## RV-48 Pressure Regulator

**Capacities:** to 230 CFH

**Inlet Pressure:** to 1/2 PSI

**Outlet Pressure:** 3 to 6" w.c.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75649	RV48-44-0046 1/2IN POPPET DESIGN PRESSURE REGULATOR	—



## RV52, RV53, and RV81 Pressure Regulators

Maximum Op. Inlet Pressure: 1/2 PSI.  
 Outlet Pressures: 3.0 to 6.0" w.c.  
 Temperature Limits: -40 to +205° F.



Model No.	Pipe Size	A.G.A. Max.	Pressure Drop* (inches w.c.)									
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
RV52	1/2 x 1/2	450	151	214	262	302	338	370	400	427	453	
RV53	3/4 x 3/4	710	217	306	375	433	484	530	573	612	650	684
RV81	1-1/4 x 1-1/4	2500	780	1102	1350	1559	1743	1909	2062	2204	2339	2465

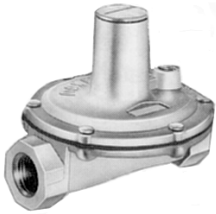
\* Capacities expressed in ft.<sup>3</sup>/h-0.64 sp. gr. gas.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75650	RV52-44-015 1/2IN STRAIGHT-THRU-FLOW PRESSURE REGULATOR	—
1	EA	75652	RV52-66-015 3/4IN STRAIGHT-THRU-FLOW PRESSURE REGULATOR	—
1	EA	75653	RV53-88-0002 1IN STRAIGHT-THRU-FLOW PRESSURE REGULATOR	—
1	EA	75655	RV81-1010-0014 1-1/4IN STRAIGHT-THRU- FLOW PRESSURE REGULATOR	—



## 325 Appliance Pressure Regulators

Complies with CSA, 6.3 (ANSI Z 21.18)



A high performance regulator that can be used as a single-stage regulator reducing from pounds pressure to normal burning pressure, or as a first stage regulator of a 2-stage system on equipment already fitted with an appliance regulator.

For use on industrial pilots, commercial range, baking ovens, large water heaters, boilers, unit heaters, steam generators, and furnaces.

**Inlet Pressures:** to 10 PSI

**Outlet Pressures:** 2 in. w.c. to 2 PSI

**NOTE:** These regulators provide no downstream over pressure protection in the event of failure. They should not be used if the appliance that controls downstream will not safely contain gas when exposed to supply pressure. Suitable for dead-end lock-up.

Model No.	Pipe Size	Pressure Drop (In.)						Pressure Drop (PSI)		
		.3	.5	1.0	3.0	5.0	7.0	1/2	3/4	1
325-3	3/8 x 3/8	30	38	55	95	122	145	204	250	289
325-3	1/2 x 1/2	38	38	55	95	122	145	204	250	289
325-5A	3/4 x 3/4	70	90	128	221	286	338	476	583	673

NOTE: Capacities are expressed in ft<sup>3</sup>/h; 0.64 sp. gr. gas.

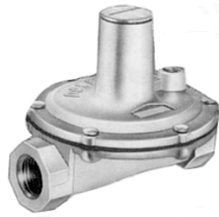
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75656	325-3-33-0013 3/8IN LEVER ACTING CERT TO 5 PSI APPLIANCE REGULATOR	—
1	EA	75654	325-3-44-0008 1/2IN LEVER ACTING CERT TO 5PSI APPLIANCE REGULATOR	—
1	EA	75666	325-3-44-0043 1/2IN 5IN-9IN SPRING 2PSI REGULATOR	—
18	EA	75659	325-5A-66-0003 3/4IN LEVER ACTING CERT TO 5 PSI APPLIANCE REGULATOR	—

\*For use on systems under 250,000 BTU.





## 325 Line Pressure Regulators CSA Certified (ANSI Z21.80)



- Designed for multi-poise mounting
- Self-aligning valve with lever action for dead end lockup
- Durable, corrosion-resistant construction
- High performance type for pounds to inches reduction

**Inlet Pressure:** 2 psi

**Outlet Pressure Range:** 7 to 11 inches w.c.

Gases: intended for application in natural and LP gas piping systems up to 2 psi

**Ambient Temperature Limits:** -40° to 205° F

Model Number	Pipe Size	Outlet Pressure Set Point (w.c.)	Operating Inlet Pressure (psi)					Pressure Drop (In W.C.)	Pressure Drop (psi)		
			1/2	3/4	1	1-1/2	2		1/2	3/4	1
325-3L	3/8 x 3/8	7.0	145	200	250	250	250	145	204	250	289
	1/2 x 1/2	10.0	110	180	230	250	250				
325-5AL	3/4 x 3/4	7.0	335	475	550	550	550	338	476	583	673
		10.0	250	420	535	550	550				

\*0.64 sp gr gas expressed in CFH (m³/h)

### Line Pressure Regulators

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75830	325-3L-33-NG02 3/8IN ANSI Z21.80 CERT TO 2PSI LINE REGULATOR	—
1	EA	75831	325-3L-44-NG02 1/2IN ANSI Z21.80 CERT TO 2PSI LINE REGULATOR	—
1	EA	75832	325-5AL-66-NG02 3/4IN ANSI Z21.80 CERT TO 2PSI LINE REGULATOR	—

### Vent Protectors

1	EA	75833	13A15 325-3L VENT PROTECTOR OUTDOOR USE	—
1	EA	75834	13A15-5 325-AL VENT PROTECTOR OUTDOOR USE	—



## R500S Valve Regulator



These regulators are designed for use with infra-red heaters and pilot lines on large industrial heaters and boilers. They may also be used in residential applications.

The design of the valve regulator features double diaphragm balanced valve construction. Intended for use with both main burner and pilot load applications.

**Maximum Inlet Pressure:** 5 psi.

**Outlet Pressures:** to 30" w.c.

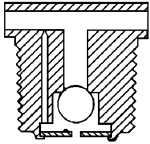
**NOTE:** These regulators are not suitable for dead-end lock-up service. They are capable of controlling pressure at very low flows such as standing pilot, but should not be used as a first cut regulator for appliances equipped with electronic ignition.

Model No.	Pipe Size	Pressure Drop										
		0.2"	0.4"	0.6"	0.8"	1.0"	1.5"	2.0"	2.5"	3.0"	3.5"	4.0"
R500S	3/4 x 3/4	196	277	340	392	438	537	620	693	760	820	876

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75658	R500S-66-0015 3/4IN X 3/4IN BALANCED VALVE REGULATOR	—



## Vent Limiting Devices



**12A04:** Automatic safety vent limiting device. Ball check permits free inhalation for fast regulator-diaphragm response, on open cycle, but limits gas escapement to safe limits should a diaphragm rupture. Satisfies ANSI Standards for both Class I and II service, natural, and LP gas. Use on RV48, RV52, RV53, and RV61 regulators.  
**Escapement rate:** 1.55 CFH natural gas @ 21" w.c. or 1.0 CFH maximum LP gas @ 21" w.c.  
**Color:** Brass.  
**Orifice:** #78 drill.



**12A06** Fixed orifice equally limits inhalation and escapement. Orifice hole is on side of body under head. Use on RV48, RV52, RV53, and RV61 regulators.  
**Escapement Rate:** 1.5 CFH natural gas @ 21" w.c. or 1.0 CFH maximum LP gas @ 21" w.c.  
**Color:** Brown.  
**Orifice:** #78 drill.



**12A09:** May be used in multi-poise mounting but to achieve quick regulator response it must be mounted in an upright position. Satisfies ANSI Standards for Class III service for natural gas.  
**Escapement Rate:** 1.0 CFH maximum @ 2 psi LP and 5 psi natural with 325-3 and 325-3L.  
**Color:** Green.  
**Orifice Diameter:** 0.0087"



**12A39:** Automatic vent limiting device for use on 325-5A and 325-5AL Pressure Regulators. Ball check permits free inhalation for fast regulator diaphragm response on opening cycle, but limits gas escapement to within ANSI standards should a diaphragm rupture. 3/8 NPT.  
**Color:** Brass.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75661	12A04 OPTIONAL VENT LIMITING DEVICE FOR RV48-RV52-RV53 INDOOR USE	—
1	EA	75662	12A06 OPTIONAL VENT LIMITING DEVICE FOR RV48-RV52-RV53 INDOOR USE	—
1	EA	75663	12A09 OPTIONAL VENT LIMITING DEVICE FOR 325-3 INDOOR USE	—
1	EA	75664	12A39 OPTIONAL VENT LIMITING DEVICE FOR 325-5A INDOOR USE	—



## Outdoor Vent Protectors

Use on vent opening to protect breather hole from rain, snow, foreign particles, and insects. Must be mounted in an upright position.



13A15 (1/8" NPT)



13A15-5 (3/8" NPT)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75833	13A15 325-3L VENT PROTECTOR OUTDOOR USE	—
1	EA	75834	13A15-5 325-AL VENT PROTECTOR OUTDOOR USE	—

## Rego Regulators

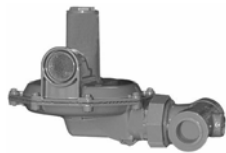


**LV004403B4** maximum inlet pressure 10 lb. PSI outlet pressure. Adj. 9 inches to 13 inches, factory set at 11 inches. Capacity 250 CFH (LP gas only). The burden of liability will stand with the Installer/User if used on other than LP gas.

**LV004403TR4** maximum inlet pressure 50 lb. PSI outlet pressure 5 lb. to 10 lb. PSI capacity 200 CFH (LP gas only).

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	75636	LV004403B4 REGO REGULATOR	—
10	EA	75637	LV004403TR4 REGO REGULATOR	—

## SENSUS Gas Pressure Regulators



143

Sensus service regulators are designed to be installed in numerous mounting positions and are simple to adjust and service. The union nut style connection on the 143-80 makes it especially easy to adjust. These domestic and industrial service regulators can be used in a variety of applications such as factories, foundries, commercial laundries, hotels, schools, hospitals, etc.



243

Designed for use on all types of gas fueled equipment including boilers, burners, furnaces, ovens, heaters, kilns, engines, etc. Although mainly used with natural gas, they perform as well when used with LPG vapor, air, dry CO<sub>2</sub> nitrogen, and other inert gases. Not recommended for buried service.

**Operating Temperature Range:** -20 to 150°F



496

### Regulators

Spring/Outlet Range (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6 to 14 w.c.	1	EA	75626	243-8-2 1-1/4IN REGULATOR 3/4IN ORIFICE	—
6 to 14 w.c.	1	EA	75627	243-8-2 1-1/2IN REGULATOR 3/4IN ORIFICE	—
6 to 14 w.c.	1	EA	75628	243-8-2 2IN REGULATOR 3/4IN ORIFICE	—
6 to 14 w.c.	1	EA	75630	143-80-2 3/4IN REGULATOR 1/8IN ORIFICE	—
6 to 14 w.c.	1	EA	75631	143-80-2 1IN REGULATOR 1/8IN ORIFICE	—
6 to 14 w.c.	1	EA	75632	143-80-2 1-1/4IN REGULATOR 3/16 ORIFICE	—
6 to 14 w.c.	1	EA	75667	143-80-2 3/4IN REGULATOR 5/16IN ORIFICE	—
6 to 14 w.c.	1	EA	75668	143-80-2 1IN REGULATOR 5/16 ORIFICE	—
6 to 14 w.c.	1	EA	75669	143-80-2 1-1/4IN REGULATOR 5/16IN ORIFICE	—
6 to 14 w.c.	1	EA	75775	496 1/2IN STRAIGHT BODY REGULATOR 5/16IN ORIFICE	—
6 to 14 w.c.	1	EA	75776	496 3/4IN STRAIGHT BODY REGULATOR 5/16IN ORIFICE	—
6 to 14 w.c.	1	EA	75777	496 1IN STRAIGHT BODY REGULATOR 5/16IN ORIFICE	—

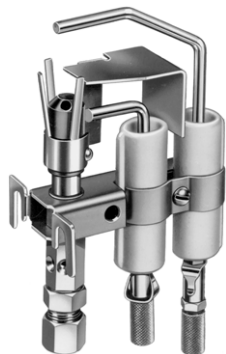
### Springs

Use With the Following Regulator	Outlet Pressure Range	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
043B	12.0" to 28.0" w.c.	1	EA	75113	071-03409-003 6IN TO 14IN W.C. RANGE STANDARD RED SPRING	—
043C	5" to 7" w.c.	1	EA	75116	043C762649 5IN TO 7IN W.C. RANGE GREEN SPRING	—
143	12~B2 to 28~B2 w.c.	1	EA	75640	143-62-021-18 ORANGE SPRING	—
243	12~B2 to 28~B2	1	EA	75642	143-16-021-05 GREEN SPRING	—
243	1 to 2 psi	1	EA	75643	143-16-021-06 ORANGE SPRING	—

### Orifices

Use With the Following Regulator	Size (In.)	Material	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
143	3/8IN	Aluminum	1	EA	75646	143-62-023-44 3/8IN ORIFICE	—
143	1/4IN	Aluminum	1	EA	75647	143-62-023-42 1/4IN ORIFICE	—
243	1/2IN Orifice	Brass	1	EA	75648	143-16-023-00 1/2IN ORIFICE ORIFICE	—
243	1IN	Brass	1	EA	75651	143-16-023-02 1IN ORIFICE	—

## Honeywell Q179A Flame Rectifier Gas Pilots



For intermittent or interrupted ignition; has both flame electrode and ignition electrode. Combination rectifying flame rod and pilot burner. For use with suitable electronic relay on industrial or commercial gas burners or gas pilot-ignited oil burners.

Includes natural gas orifice. For LP gas, use 47540 Orifice Assembly (order separately). Primary-aerated type burner is equipped with stainless steel fins to stabilize flame and provide correct flame rod area to ground area ratio for maximum flame current. Compression coupling for 1/4" OD tubing. Uses Rajah electrical connectors.

**Approximate Gas Consumption:** 2 cu. ft./hr.

**Mounting Means:** Bracket with holes for side mounting, 2 lugs for end mounting.

**Approximate Dimensions:** 4-5/8" H x 1-11/16" W x 3" D.

U.L. Listed.

Industrial Risk Insurers (formerly FIA) acceptable.

Factory Mutual approved.

AGA certified.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
20	EA	71270	Q179A1001/U FLAME RECTIFIER PILOT	—
20	EA	71271	Q179A 1092 FLAME RECTIFIER PILOT	—
20	EA	71272	Q179B 1117 FLAME RECTIFIER PILOT	—

## Honeywell Q313A Replacement Thermopile Generator



Provides power for a millivoltage, self-powered control system. Eliminates the need for an outside power source. Easy push-in installation.

**Open Circuit Output:** 600-750 mV.

**Includes:** 35" PG9 adapter.

**Used with Pilot Burner:** Q314, 324, 327, 377, 379, 382.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	71515	Q313A1170/U GENERATOR	—	—

## Honeywell Q314A Pilot Burner



Q314A 4586



Q314A 4586  
Tip Style

Nonprimary-aerated, insert orifice-type pilot burner for main burner ignition with Q340 or Q390 thermocouple for pilot stat safety control operation. Use with Q313 thermopile generator for 750 mV Powerpile applications.

**Type of Gas:** Natural, LP.

**Mounting Bracket:** B

**Includes:** Natural gas orifice, LP gas orifice, 1/4" cc inlet fitting, and special mounting bracket with screws for converting B Bracket.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	71521	Q314A4586/U PILOT BURNER	—	—

Super Tradeline Model

## Honeywell Q340A and Q390A Thermocouples



### Q340 Universal Thermocouples

For gas-fired heating system applications.  
Replaces almost any 30 mV thermocouple.

**Mounting Options:** Screw-in type, clamp type,  
or push-in type.

**Average Operating Life:** 10 years.

### Q390 Thermocouple

For use on gas-fired heating systems as an  
alternative to the Q340. Bottom lock design  
provides easy installation in most applications.

**Average Operating Life:** 5 to 7 years.

### Thermocouple Pack\*

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PKG	74128	Y540A1004/U 100 PACK Q340A 36" THERMOCOUPLE	—

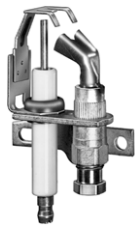
\* Pack includes 100 ea. 36" Q340A thermocouple, clips, furnace stickers, and universal adapters.

### Q340A and Q390A Thermocouples

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 50
10	EA	74127	Q340A1074/U 24" THERMOCOUPLE	—	—	—
10	EA	74129	Q340A1090/U 36" THERMOCOUPLE	—	—	—
10	EA	74130	Q340A1108/U 48" THERMOCOUPLE	—	—	—
10	EA	74133	Q390A1061/U 36" THERMOCOUPLE	—	—	—

Q340A 1090 and Q340 1108 are Super Tradeline Models.

## Honeywell Q345A Igniter-Sensor



Q345A 1305 Q345A 1305 Tip Style

Nonprimary-aerated combination pilot burner and igniter. Used with the S86, S860, S8610, or S8670 in intermittent pilot systems. Includes pilot burner with bracket, ceramic-insulated Kanthal flame rod/spark igniter, and ground strap.

### Maximum Temperature Ratings:

At Electrode Tip: 1775° F.

At Ceramic Insulator: 1250° F.

**Type of Gas:** Natural.

**Mounting Bracket:** B.

**Includes:** 1/4" cc inlet fitting.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
120	EA	71526	Q345A1305/U IGNITER-SENSOR	—

Super Tradeline Model

## Honeywell Q347 Spark Igniter



The Spark Igniter consists of an inner Kanthal electrode with ceramic insulator, bracket, and Kanthal ground strap. It produces spark for ignition of main burner.

**Spark Gap:** 5/32"

**Wiring Connection:** 1/4" stud.

**Mounting Means:** One 3/16" slot and three 3/16" untapped screw holes.

**Mounting Position:** Vertical.

**Maximum Temperature Ratings:**

At Electrode Tip: 1775° F.

At Ceramic Insulator: 1250° F.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	71540	Q347A 1004 SPARK IGNITER	—

# Honeywell Glowfly™ Universal Hot Surface Igniter



Glowfly is made from silicon nitride and is less prone to breakage when used in challenging installs. The Glowfly's optimized form factor enables quicker, easier service calls. With six custom designed brackets and their seven configurations, it fits most replacement igniter applications.

## Q3200U Igniter Bracket Replacement Cross Reference<sup>1</sup>

Manufacturer	OEM #	Q3200U Bracket	Manufacturer	OEM #	Q3200U Bracket	Manufacturer	OEM #	Q3200U Bracket		
American Road Equip.	201W	A	Modine	5H76032A	C	Tempstar	1096048	D		
Arco Air	1096048	D	Mor-Flo	3200618	A	Trane	340039P01	A		
	1380680			511-330-193	B		B138196P01	B		
Armstrong Air	38322B001	A	Nordyne	105141000	A		B144676P01	A		
Carrier/Bryant/Payne	LH33ZS001	B or E <sup>2</sup>		632-0770			632-0880	B340039P01	B	
	LH33ZS001A			201			201	IGN23	A	
	LH33ZS002			271			271	IGN26	B	
	LH33ZS002A		201D	201D	IGN30		B			
	LH33ZS003		201K	201K	IGN34		A			
	LH33ZS003A		201L	201L	9302-094		A			
LH33ZS004	201N	A	Norton/St Gobain	201N	A		62821-001	A		
	201R			201R		62821-002				
Clair Bros.	C-238			A	201W	201W	B	511-330-139	B	
Coleman	C242			A	271N	271N		511-330-190		
	1474-051				271NM	271NM		511-330-193		
1474-052	D			271P	271P	White LB		12-07549	A	
Comfort Maker	1096048			D	271W	271W	White-Rodgers	767A-301	A	
Detroit Radiant	201D			A	Raypak	600915		B	767A-303	F
DMO Ind.	20834			A	Rheem	62-22441-01		A	767A-306	A
Dornback Furnace	271W			A	Roberts Gordon	90434300		B	767A-311	
Ducane	20015201	B	90436600	A		767A-350				
Enero Tech	10399	A	Robertshaw	41-402	A	767A-353		F		
Evcon	1474-051	A		41-403	41-403	B		767A-354	A	
	1474-052			41-404	41-404	B		767A-357	F	
Evcon Coleman	025-32625-000	B		41-405	41-405	A		767A-361	A	
Goodman	B1401009	D		41-407	41-407	B		767A-364		
	B1401018			41-408	41-408	A		767A-366		
	B1401018S			41-409	41-409	B		767A-370	B	
HB Smith	50018	A		41-410	41-410	A		767A-371	A	
Heil	1096048	D		41-412	41-412	D		767A-372	A	
Hupp Industries	09050	A		41-418	41-418	C		767A-373	D	
Intercity	1009604	D	Snyder General	1380654	B	767A-376		B		
	1096048			1380672		767A-377		A		
1380680	1380680	767A-382		B						
Majestic	75-92-104	A	Superior Fireplace	94851	A	Williamson	9050	A		
Metzger	75-92-105	A					025-27766-000	A		
	201N						025-27774-000			
201W						025-29043-000				
						025-29050-000				

<sup>1</sup> Table data is correct to the best of Honeywell's knowledge as of this publication's date.

<sup>2</sup> For Carrier sealed combustion furnaces, you must use bracket E and retain the existing orange gasket for use with bracket E.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
20	EA	71509	Q3200U 1004 GLOWFLY UNIVERSIAL HOT SURFACE IGNITER	—
20	PKG	71510	Q3200U 2002 GLOWFLY UNIVERSIAL HOT SURFACE IGNITER 6 PACK	—

**White** **Rodgers** **Standing Pilot Replacement Parts**



3098 Mercury Flame Sensor



36C84



5059 Pilot Relight Control



760 Electrode Assembly

BTUH: 335,000

Valve Capacity (At Pipe Size): 3/4" x 3/4"

**CAUTION:** Proper pilot burner placement is essential for safe operation, and smooth main burner ignition. **UNDER NO CIRCUMSTANCES** should the existing pilot burner be relocated, or an existing factory-installed shield be altered. If pilot burner replacement is necessary, use only the pilot burner approved for installation on that particular make and model appliance.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75558	3098-156 MERCURY FLAME SENSOR	—
1	EA	75559	5059-23 PILOT RELIGHT CONTROL	—
1	EA	75560	760-56 ELECTRODE & WIRE	—
1	EA	75762	36C84-912 3/4IN X 3/4IN NATURAL GAS VALVE	—

**White** **Rodgers** **30A46 and 3046 Liquid Filled Gas Pilots**



30A46



3046

30A46-5 contacts close approximately 60 seconds after pilot ignites and open 40 seconds after flame is out. 3046-5 prevents gas flow to main burners if pilot flame is insufficient. Contacts close approximately 60 seconds after pilot ignition and open 40 seconds after flame is out.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75520	3046-5 SCREW MERCURY FLAME SENSOR	—
1	EA	75521	30A46-5 PLUG-IN MERCURY FLAME SENSOR	—

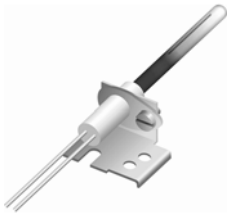
**White** **Rodgers** **GO1A-332 Power Generator**  
Replacement for Honeywell Q313A1170 and General 101934



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75568	G01A-332 POWER GENERATOR	—

White  
Rodgers

## 21D64-2 Universal Silicon Nitride Ignitor Upgrade Kit



The 21D64-2 upgrades silicon carbide integrated or non-integrated systems to long-lasting and durable nitride. The kit includes the nitride ignitor with 15.5" leads, "universal" mounting bracket and screw, mounting adapter bracket, 2 ceramic wire nuts, manufacturer cross-reference, nitride upgrade furnace label and instruction booklet.

- Robust ignitor design for longer life and fewer callbacks.
- Universal bracket fits most furnaces and reduces inventory.
- Easy to install.
- Does not require a separate power module.
- 3 year warranty.

**Electrical Rating**

**Input:** 102-132 VAC, 60Hz

**Max. load current:** 3.0A @ 132 VAC, 25° C.

**Timing rating:** 17 seconds minimum.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75764	21D64-2 UNIVERSAL IGNITOR UPGRADE KIT	—

White  
Rodgers

## 21M51U-843 Two-Stage HSI Integrated Furnace Control Kit For Furnaces with 3-Speed (PSC) Circulators



**Features**

- 120 VAC ignitor output, two-speed inducer output, humidifier output, and electronic air cleaner output
- 3-speed PSC circulator output
- 2-stage gas valve output
- Fuse protection
- Furnace status LED
- Auto 2nd stage delay

**Includes**

- Ignition control module
- 21D64-2 universal silicon nitride ignitor kit
- Installation instructions and OEM cross reference

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75792	21M51U-843 2 STAGE 3SPD UNIVERSAL INTEGRATED FURNACE CONTROL KIT	—



White  
Rodgers

## 21V51U-843 Two-Stage HSI Integrated Furnace Control Kit For Furnaces with Variable Speed (ECM) Circulators



**Features**

- 120 VAC ignitor output, two-speed inducer output, humidifier output, and electronic air cleaner output
- 2-stage gas valve output
- 16-pin variable speed circulator output

**Includes**

- Ignition control module
- Wiring harness
- 21D64-2 universal silicon nitride ignitor kit
- Installation instruction and OEM cross reference

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75793	21V51U-843 VARIABLE SPD UNIVERSAL INTEGRATED FURNACE CONTROL KIT	—

White  
Rodgers

## 50M56U-843 Single-Stage HSI Integrated Furnace Control Kit



**Features**

- 3 fan speeds
- Color-coded thermostat connection
- System diagnostics, with fault recall (stored)
- Auto 2nd stage delay

**Electrical Rating**

Input: 25 VAC 50/60 Hz

Max. load currents: 1.5 amp @ 25 VAC, 50/60 Hz

**Includes**

- Ignition control module
- 9 quick-select/quick-connect wiring harnesses
- 21D64-2 universal silicon nitride ignitor kit

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75809	50M56U-843 UNIVERSAL SINGLE STG HSI INTEGRATED FURNACE CONTROL KIT	—

White  
Rodgers

# 767A Hot Surface Ignition Controls and 760 Sensor



767A-357



767A-361 (41-405/1405)



767A-369 (41-401)



767A-370 (41-403, 41-409)



767A-371 (41-402)



767A-372 (41-408)



767A-373 (41-412)



767A-374 (41-406)



767A-376 (41-407)



767A-377 (41-410)



767A-378



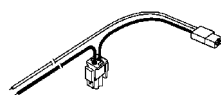
767A-381 (41-605)



767A-382 (41-404)



767A-383 (41-411)



F115-0100



760-401

767A Hot Surface Ignitors provide three times more energy than standard pilot burners. These ignitors are rated at 200° C, and are useable with either 15, 17, or 45 second H.S.I. systems.

F115-0100 Harness connects the 767A ignitor with the 50E47 ignition module.

760-401 Flame Sensor can be mounted remotely on multiple burner or adjacent to ignitor on other applications. Features: Alumina ceramic insulator, Kanthal flame rod material that can withstand 1800° F, and Teflon insulated lead wire.

Lead Length: 30".

Lead Insulation Temp. Rating	Electrical Connection	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
250° C	Receptacle with .093 Male Pins	1	EA	75587	767A-357 4-3/4IN IGNITOR LEADS W/CONNECTORS	—
250° C	Receptacle with .093 Male Pins	1	EA	75586	767A-361 (41-405/1405) 4-3/4IN LEADS WITH CONNECTORS IGNITOR	—
200° C	Amp Connection	1	EA	75686	767A-369 (41-401) IGNITOR 5-1/2IN LEADS WITH CONNECTORS	—
200° C	Amp Connection	1	EA	75687	767A-370 (41-403 & 41-409) IGNITOR 5-1/4IN LEADS WITH CONNECTORS	—
200° C	Stripped Ends	1	EA	75688	767A-371 (41-402) IGNITOR 19-1/8IN STRIPPED LEADS	—
200° C	Amp Connection	1	EA	75689	767A-372 (41-408) IGNITOR 5-1/4IN WITH CONNECTOR	—
200° C	Connector	1	EA	75690	767A-373 (41-412) IGNITOR 5-1/4IN CONNECTOR WITH BRACKET	—
200° C	Stripped Ends	1	EA	75691	767A-374 (41-406) IGNITOR 11IN WITH GASKET	—
200° C	Amp Connection	1	EA	75692	767A-376 (41-407) IGNITOR 4-1/2IN LEADS WITH CONNECTOR	—
200° C	Amp 2-Pin Molex Connector	1	EA	75693	767A-377 (41-410) IGNITOR 4-1/2IN LEADS WITH CONNECTOR	—
200° C	Matches Amana #20165702	1	EA	75844	767A-378 5.125" (+/--.5") LEADS IGNITOR MINI (0230K00001)	—
200° C	Receptacle with 7.5" Male Pins	1	EA	75796	767A-381 (41-605) (+/-1") 7 1/2IN LEADS IGNITOR	—
200° C	Receptacle with .093 Male Pins	1	EA	75794	767A-382 (41-404) 5 1/2IN LEAD WIRE IGNITOR	—
200° C	Molex Side Lock, .092 Male Pins	1	EA	75795	767A-383 (41-411) 5 1/2IN WIRE LEAD IGNITOR	—
105° C	24" lead lengths	1	EA	75592	F115-0100 HSI HARNESS	—
250° C	1/4" female spade terminal	1	EA	75593	760-401 HSI FLAME SENSOR	—

**White**  
**Rodgers** **Silicon Carbide Ignitor Cross Reference**

Manufacturer	OEM #	Suggested Replacement
Amana	B1336102	767A-369
	D99182	767A-369
	10041601	767A369
American Appliance	271B	767A-374
American Road Equip.	201W	767A-371
Armstrong Air	38322B001	767A-371
Arco Air	1096048	767A-373
	1380680	767A-373
Carlin	87197S	767A-375
Carrier Corp.	LH33ZS001A	767A-370
	LH33ZS002	767A-370
Claire Brothers	C-238	767A-371
	C-242	767A-371
Coleman	1474-051	767A-371
	1474-052	767A-371
Comfort Maker	1096048	767A-373
Comfort Zone	150114-04-01	767A-374
Detroit Radiant	201D	767A-361
DMO Industries	20834	767A-371
Dornback Furnace	271W	767A-371
Ducane	20015201	767A-370
Enerco Tech	10399	767A-371
Evcon	1474-051	767A-371
	1474-052	767A-371
Goodman	B1401009	767A-373
HB Smith	50018	767A-361
Heil	1096048	767A-373
Hupp Industries	09050	767A-371
Intercity	1009604	767A-373
	1096048	767A-373
Majestic	75-92-104	767A-371
	75-92-105	767A-371
Metzger	201N	767A-371
	201W	767A-371
Mor-Flo	3200580	767A-374
	3200618	767A-371
	3210401	767A-374
Nordyne	105141000	767A-371
	632-0880	767A-371
	632-0770	767A-371
Norton	201	767A-370
	201A	767A-369
	201D	767A-361
	201J	767A-374
	201K	767A-371
	201L	767A-371
	201M	767A-374
	201N	767A-371
	201R	767A-371
	201W	767A-371
	201Y	767A-374
	271	767A-370
	271A	767A-369
	271P	767A-361
	271M	
	271N	
271NM		
271W		
271Y		
Perfection Schwank	108803-G1	
Raypak	600915	
Rheem	62-22441-01	
	62-22441-01	
	62-22868-82	

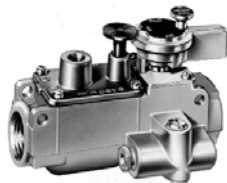
Manufacturer	OEM #	Suggested Replacement
Robertshaw	41-401	767A-369
	41-402	767A-371
	41-403	767A-370
	41-404	767A-370
	41-405	767A-361
	41-406	767A-374
	41-407	767A-376
	41-408	767A-372
	41-409	767A-370
	41-410	767A-377
	41-411	767A-372
	41-412	767A-373
	41-413	767A-375
	41-414	767A-373
Roberts Gordon	90434300	767A-370
	90436600	767A-371
Snyder General	1380672	767A-370
	1380680	767A-370
	1380654	767A-370
Superior Fireplace	94851	767A-371
Tempstar	1096048	767A-373
Trane	B138196P01	767A-370
	B144676P01	767A-372
	B144676P02	767A-370
	B340039P01	767A-372
	340039P01	767A-371
	IGN23	767A-371
	IGN26	767A-370
	IGN26	767A-370
	IGN30	767A-370
	IGN30	767A-370
IGN34	767A-372	
Trianco-Heatmaker	2600-359	767A-369
Viessman	9302-094	767A-361
Wayne Home Equipment	62821-001	767A-371
	62821-002	767A-371
Weil-McLain	511-330-139	767A-370
	511-330-188	767A-374
	511-330-193	767A-370
	511-330-190	767A-370
White, LB	120-07549	767A-371
White-Rodgers	767A-301	767A-361
	767A-303	767A-357
	767A-306	767A-361
	767A-309	767A-356
	767A-310	767A-365
	767A-311	767A-366
	767A-350	767A-361
	767A-353	767A-357
	767A-354	767A-361
	767A-356	767A-356
	767A-357	767A-357
	767A-361	767A-361
	767A-364	767A-366
	767A-365	767A-365
	767A-366	767A-366
	767A-369	767A-369
	767A-370	767A-370
	767A-371	767A-371
	767A-372	767A-372
	767A-373	767A-373
767A-374	767A-374	
767A-375	767A-375	
Williamson	09050	767A-371
York	025-27766-000	767A-361
	025-27774-000	767A-361
	025-29043-000	767A-361
	025-29050-000	767A-361

NOTE: Ceramic connectors are included (767A-369 thru 767A-372) and can be used if original ignitor has a different connector than the suggested replacement. Retain any brackets used with the original equipment. Replacements do not include brackets.



BASO Gas Products LLC

## H43 Series Baso Automatic Pilot Valves



For use on appliances such as room heaters, wall furnaces, etc. Manual valve handle for operation of valve without thermostat provides Off, Pilot, and On positions. Features interlock between manual valve handle and reset button that allows gas to flow only to pilot during pilot relight.

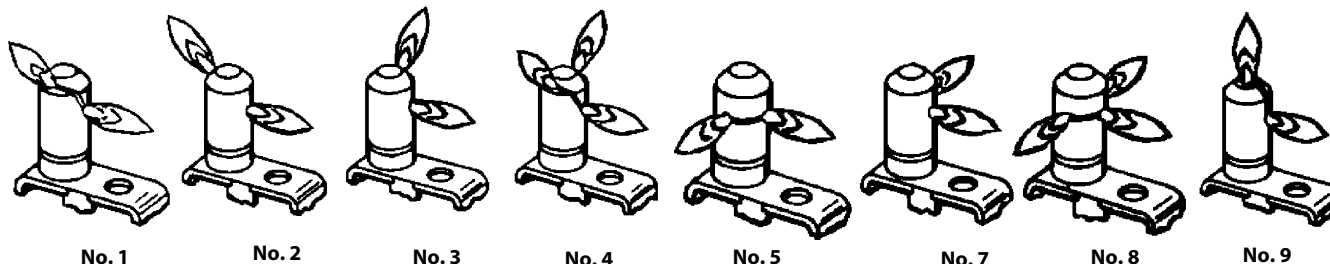
Control shuts off both main and pilot gasses if pilot is extinguished. Manual valve controls both main and pilot gas. 100% shutoff-safe lighting. Use Baso K15, K16, or K19 thermocouples.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75090	H43BA-2C 1/2 IN VALVE	—



BASO Gas Products LLC

## J Series Combination Type D10 & D11 Pilot Burners



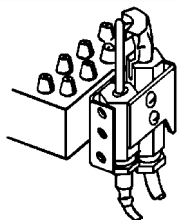
Tip Position	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	1	EA	75327	J991MDA-2H PILOT	—
2	1	EA	75326	J992MDA-2H PILOT	—
3	1	EA	75325	J993MDA-2H PILOT	—
4	1	EA	75324	J994MDA-2H PILOT	—
5	1	EA	75323	J995MDA-2H PILOT	—
7	1	EA	75321	J997MDA-2H PILOT	—
8	1	EA	75320	J998MDA-2H PILOT	—
9	1	EA	75319	J999MDA-2H PILOT	—

NOTE: Includes two inlet fittings and necessary parts.

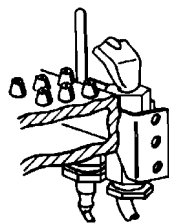


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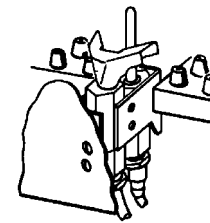
## J Series Multi-Mount Universal Pilot Burner



J999MHA



J999MKA



J999MYA

Baso universal replacement pilot burners are supplied in three models. Mounting brackets on all four sides of each burner permit adaptation to most any application.

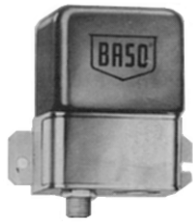
Features: mounting bracket on all four sides, three tapped holes in each bracket end for vertical adjustment, a natural and LPG orifice supplied, and nuts and bolts furnished in each package.

Type of Pilot	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
Shell	10	EA	75224	J999MKA-2H MULTIMOUNT PILOT	—
Y Channel	10	EA	75225	J999MYA-2H MULTIMOUNT PILOT	—
L Channel	10	EA	75226	J999MHA-2H MULTIMOUNT PILOT	—



BASO Gas Products LLC

## L61 and L62 Series Pilot Switches



L61LL-1C



L62AA



L62GB

Baso automatic pilot switches are wired to interrupt the automatic main gas valve circuit if the pilot flame is extinguished. L61LL-1 is the universal replacement for Baso 860-1, 861-1, 960-1, and L61LL-3 pilot switches. L62GB-3 replaces L62FA models. A universal mounting bracket is included with L62GB-3 to permit replacing competitive makes.

Model No.	Reset	100% Shutoff	Switch Action	Dimensions (In.)			Thermocouple Lead	Electrical Ratings
				Max. Width	Max. Depth	Max. Height		
L61LL-1	Automatic	No	SPDT	3-3/8	2-3/16	3-59/64	K16BT	At normally closed contact: 125 VA pilot @ 120/240 VAC. At normally open contact: 8 amp, 120 VAC; 4 amp, 240 VAC; 1/4 hp @ 120/240 VAC
L62AA-5	Manual	No	SPDT	2-5/8	1-11/32	4-7/32	K15D, K19, or K20	8 amp, 125 VAC; 3 amp, 250 VAC; 0.06 amp, 230 VDC; 1/4 hp @ 125/250 VAC.
L62GB-3	Manual	Yes	SPDT	2-13/16	2-1/16	3-7/16	K15D, K19, or K20	1 amp, 24 VAC; 8 amp, 125 VAC; 4 amp, 250 VAC; 125 VA pilot dury @ 120-240 VAC.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75095	L62AA-5C SWITCH	—
1	EA	75096	L62GB-3C SWITCH	—
1	EA	75097	L61LL-1C SWITCH	—



BASO Gas Products LLC

## R43283-2 Copper Compression Nut and Sleeve

For pilot burners. 1/4 cc precision breakway nut and sleeve.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
50	EA	75275	R43283-2 1/4 IN (50 EA=1 BOX) CC NUT & SLEEVE	—



BASO Gas Products LLC

## Y70AA Gas Valve Grease



Specially compounded to provide excellent lubrication at temperatures ranging from 32° to 175° F. This grease will not run at high temperatures and remains pliable at low temperatures.  
 Old Number: 341-1 2.5 oz. tube.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75260	Y70AA-1C GREASE	—



BASO Gas Products LLC

## Y90 Pilot Burner Inlet Fittings and Tubing

The Y90 Series inlet fittings control the flow of gas to a pilot burner and are designed to be used with Baso pilot burners.



Y90AA Aluminum Lined



Y99AR

### Y90 Series Baso Inlet Fittings

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75240	Y90AA-3223C .023 ORIFICE	—
1	EA	75251	Y90AA-4211C .011 ORIFICE	—
1	EA	75311	Y90AA-7218C .018 ORIFICE	—
1	EA	75310	Y90AA-7221C .021 ORIFICE	—

### Y99 Pilot Burner Tubing

1	EA	75130	Y99AR-1H 1/4X60 IN AL TUBE	—
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## K15 Baso Thermocouples



### K15DS

This thermocouple is used for Series 800, Baso, Basoid, and Basotrol valves and switches.  
**Millivoltage Range:** 20 to 28 mV.

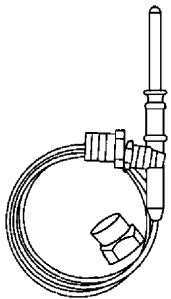
### K15FS

Snap-in clip thermocouple for fast, easy assembly for valves, switches, and Basotrol valves with automatic pilots.  
**Millivoltage Range:** 20 to 28 mV.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 50
10	EA	75042	K15FS-36H THERMOCOUPLE	—	—	—
10	EA	75063	K15DS-36H THERMOCOUPLE	—	—	—



## K16 Husky™ High Performance Thermocouple



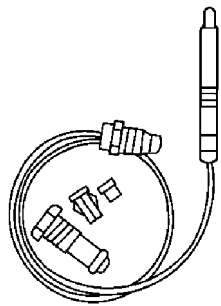
This heavy duty, high output, commercial-industrial thermocouple is a replacement for Baso 17D, 50, 58D, 87D, 88D, 97D, and 107D thermocouples. Will also fit the Baso 19119 pilot burner.

The Husky™ is supplied with adapters to allow the necessary replacement.  
**Millivolt Range:** 30-35.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 50
10	EA	75059	K16BT-18H THERMOCOUPLE	—	—	—
10	EA	75068	K16BT-36H THERMOCOUPLE	—	—	—
5	EA	75069	K16WT-48H THERMOCOUPLE	—	—	—
5	EA	75074	K16WT-72H THERMOCOUPLE	—	—	—



## K19 Universal Replacement Thermocouple



This model fits all pilots including all Baso types and the especially hard to fit snorkel types. For pilots and standard threads, only the lower nut is needed. A special sliding "quick nut" required only for pilot burners not drilled and tapped with standard threads.

**Millivoltage Range:** 25 to 35.

Use this universal with all Series G and H baso valves, Basoids, and Basotrols with automatic pilot valves as well as automatic pilot valves made by other control manufacturers whose power unit connector is like the Baso series.

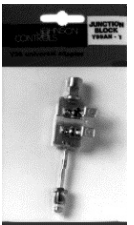
Also replaces (check for length) White-Rodgers 21H02E, Honeywell Q340A, ITT/General 2500G and 3000MG, and Robertshaw A1910.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 50
10	EA	75000	K19AT-36H UNIV THERMOCOUPLE	—	—	—



## Y99AN Junction Block Adapter

This adapter will fit any Baso thermocouple lead for conversion to a junction block application.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75075	Y99AN-1H JUNCTION ADAPTOR	—



## Aluminum Tube Kit

- For pilot line hookup to gas valve.
- 5 ft.
- Includes compression fittings.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	54040	MA-AT14-5 1/4X5FT COIL KIT W/FTGS	—

## ADAMS APR Automatic Pilot Relighter

MANUFACTURING COMPANY



The automatic pilot relight system is activated the instant the gas pilot flame is extinguished. It generates a continuous stream of ignition sparks through the spark gap until the pilot is re-ignited.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	61760	APR AUTOMATIC PILOT RELIGHTER	—



## SIG1100 Universal Hot Surface Ignitor

- Designed to replace over 170 original part numbers.
- Engineered reaction bonded silicon carbide design
- Greater physical strength
- Lower power consumption
- Superior gas lighting ability
- Easy installation
- Minimizes inventory



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94889	SIG1100 FURNACE IGNITOR	—



## 41-311 Dryer Ignitor Kit for Whirlpool

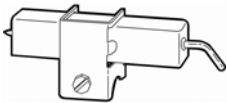


Replaces the following ignitors: 239300, 279185, 239233, 239302, 338900, 338899, 343128, 340607, 687399, 685211, WRC23K. This silicone carbide ignitor kit consists of: (1) WRC23 Ignitor, (2) 686608 Nuts and Wire, (1) 686833 Bracket, and (1) 686953 Screw.

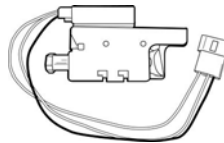
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65037	41-311 WRC23K IGNITOR KIT	—



## Pilot Burner Parts for Carrier/BDP



The 10-680 electrode assembly is identical to Carrier/BDP part number LH680512. The 10-680 is designed specifically to fit Carrier-BDP pilot burners part numbers LH68005 and LH33JZ053.



The 1830-620 replacement pilot burner assembly has been developed specifically to replace the Carrier/BDP LH680005 and LH33JZ053. The LH680005 (3-wire) and LH33JZ053 (2-wire) pilot burner assemblies have been sold exclusively by Carrier/BDP for over 20 years.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	70100	10-680 R/S ELECTRODE ASSEMBLY	—
1	EA	70103	PS730A/1830-620 2/3 WIRE CARRIER PILOT	—



## Honeywell S87C and D Direct Spark Ignition Control Modules



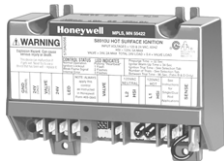
Provides electronic control of direct spark ignition systems for use on gas-fired furnaces, boilers, and heating appliances. Control ignition sequence and gas control operations. Generate high voltage potential for main burner ignition. Lock out on trial for ignition if main burner fails to ignite. Reset from thermostat after lockout.  
**Power Supply:** 24 Vac, 60 Hz.

**Current Rating:** 2.2A max. at 24 Vac input.  
**Thermostat Heat Anticipator Setting:** 0.2A plus gas control current.  
**Wiring Connections:** 1/4" male quick-connects for system; 1/4" diameter stud base for ignition cable.  
**Flame Failure Response Time:** 0.8 sec. max.  
**Ambient Temperature Range:** -40 to +175° F.

Model No.	Locking Time (sec.)	Application	Use With
S87C 1014	11	Uses separate electrodes for spark ignition and flame sensing. For use only with Honeywell gas controls designed for DSI applications. For direct replacement of S825C.	Q347A Spark Igniter and Q354A Flame Sensor
S87D 1004	6	Uses separate electrodes for spark ignition and flame sensing. Includes optional alarm output. For direct replacement of S825C, D.	

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	72715	S87C 1014-B DSI CONTROL MODULE	—
10	EA	72717	S87D 1004 DSI CONTROL MODULE	—

## Honeywell S8910U Universal Hot Surface Ignition Module



The S8910U Universal Hot Surface Ignition Module is designed to provide easy field replacement of a wide range of HSI modules manufactured by Honeywell, Robertshaw, and White-Rodgers. The S8910U uses a 120 Vac hot surface igniter.

- For local (single rod) or remote (dual rod) rectification type flame sensing.
- Provides one or three ignitions trials per call for heat (selectable); prepurge of 32 seconds or less; up to 96 seconds between purge trial times.
- Temperature Range: -40° F to 175° F.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
2	EA	72662	S8910U1000/U UNIVERSAL HSI MODULE	—	—

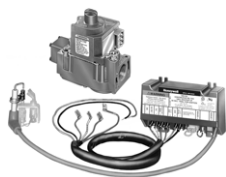
## Honeywell S9200U Universal HSI Integrated Furnace Control



- Universal hot surface ignition control replaces 122 competitive models.
- Complete set of wiring harnesses included for universal compatibility and simplified wiring.
- LED indicators provide system status, performance and diagnostic information.
- EnviraCOM -enabled for easy set-up or remote monitoring and diagnostics.
- Board is mounted in plastic tray to help protect dust and flexing of the board.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	72664	S9200U1000/U UNIVERSAL INTEGRATED FURNACE CONTROL	—	—

## Honeywell Y8610U Pilot System Kit



Use the Y8610U for all 24 Vac gas-fired atmospheric furnaces, boiler, and heating appliances. Y8610U kits work with both natural and LP gas.

The Y8610U kit includes the S8610U, VR8304, ignition cable with connectors, reducer bushings and installation hardware. The Y8610U makes it easy to upgrade old small unit heaters, forced-air furnaces and boilers up to 400,000 BTU.

The S8610U Universal Intermittent Pilot Module included in the kit can be used with both single-rod and dual-rod sense systems. It provides 100% pilot gas shutoff if the pilot fails to light; after a six-minute delay, the trial for ignition is repeated.

The VR8304 intermittent gas valve included in the kit is truly a one-size-fits-all valve. Shipped with all the adapters, fittings, and conversion items needed to fit any pipe size, the VR8304 works with most natural or LP gas applications. It has a broad capacity of 30,000 to 415,000 BTU/H.

### Y8610U Kit

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	74148	Y8610U6006/U PILOT SYSTEM	—	—

### Replacement Parts

6	EA	72660	S8610U3009/U UNIVERSAL MODULE	—	—
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### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	74655	394800-30/U IGNITION CABLE	—
1	EA	74788	392125-2/U IGN CABLE	—
1	EA	74793	392431/U IGN KIT	—



## Robertshaw 785 Series Automatic Pilot Relight Kits

Kits are 24/120 Vac and 9 Vdc and are designed for use on rooftop heating equipment, water heaters, boilers, space heaters, unit heaters, dryers, and other commercial, industrial, and residential appliances where the problem of pilot outage may occur.

### 785-001 Replaces:

Carrier/BDP: 990-195 and LH33W2-502.  
Cam-Stat: PR-24-00, PR-24-36W,  
PR-120-36W, PR-120-00, and SIG-24-00.  
Lenox: 75F2601.  
York: 025-19264-000.

### 780-001 Replaces:

Robertshaw, Johnson, and Honeywell.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77265	785-001 R/S AUTO PILOT RELIGHT KIT	—
1	EA	77339	780-001 IGN MODULE KIT	—



BASO Gas Products LLC

## Ignition Control Modules



BG1600



BGN891

### Universal Intermittent Pilot Ignition Control

The BG1600M51EF-1AA is a safety control designed for indirect burner ignition and supervision, for use with all gases and applicable to gas-fired appliances. It has a microprocessor based ignition control that provides reliable software control of all timings and operates a diagnostic LED. The control provides ignition sequence, flame monitoring, and safety shutoff for intermittent pilot boilers, furnaces and other heating appliances.

### Direct Spark Ignition Control

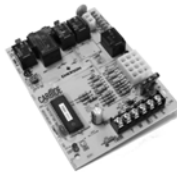
Model BGN891-1C replaces the G891TCA-8103 unit for Lennox Pulse furnaces. Control comes complete to make the 6 pin connection to the furnace. Used to replace models 60J00, 97H02, 96C66, 86H30, 77C38, 73K86, 56G14, 41G46, 99C97, 97C9701PR, 87F22, 77C3801, 73K8601, 72H68, 52J18, and 34K33.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75098	BG1600M51EF-1AA 24 VOLT UNIVERSAL INTERMITTENT PILOT IGN CTL MOD	—
1	EA	75072	BGN891-1C IGNITION CONTROL	—

## White Rodgers 50A55 Ignition Modules



50A55-843



50A55-743

50A55 Ignition Modules provide automatic gas interrupted ignition control that employs a microprocessor to continually monitor, analyze, and control the proper operation of the gas burner, inducer and fan.

### 50A55-843

Replaces OEM Trane, York, ICP and Amana models.

### 50A55-743

Replaces 50T55-289, 50A55-289 and virtually all Goodman single-stage HSI controls with 120V Ignitors

Model No.	Prepurge	Delay Heat (seconds)		Delay Cool (seconds)		Auto Reset Time
		On	Off	On	Off	
50A55-843	30 sec.	30/45	60/90/120/180	5	45/90	Retries 2 times
50A55-743	15 sec.	30	90/120/150/180	5	45	Retries 2 times

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75665	50A55-843 SILICON CARBIDE INTEGRATED IGNITION MODULE	—
6	EA	60403	50A55-743 PCBFBF112S CNTRL BRD 0130F00005/B18099-26	—

White  
Rodgers

## 50A65 Silicon Nitride Integrated Ignition Module



This ignition module incorporates a microprocessor to continually monitor, analyze, and control the proper operation of the gas burner, inducer, and fan. The 50A65 incorporates our patented adaptive algorithm routine that uses an 80V silicon nitride ignitor manufactured for White-Rodgers which ensures the most effective ignitor temperature, increasing life expectancy.

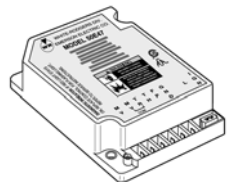
**Input Voltage at 77° F:** 25 Vac 50/60 Hz.  
**Maximum Input Current at 77° F:** @ 25 Vac 0.45 amp.  
**Operating Temperature:** -40° to 176° F.  
**Humidity:** 5% to 93% relative humidity (non-condensing).

Model No.	Prepurge	Delay Heat (seconds)		Delay Cool (seconds)		Auto Reset Time
		On	Off	On	Off	
50A65-843	30 sec.	30/45	60/90/120/180	5	45/90	Retries 2 times

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75675	50A65-843 SILICON NITRIDE INTEGRATED IGNITION MODULE	—

White  
Rodgers

## 50E47 Hot Surface Ignition Modules



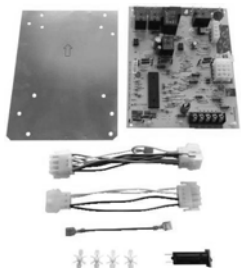
The hot surface ignition unit is a microprocessor based gas ignition control designed primarily for direct ignition and burner supervision applications such as gas furnaces, boilers, water heaters, and other similar devices. Features include keyed wiring, remote sense capability, and microprocessor self-check system for operational integrity prior to each cycle.

**Electrical Rating:**  
24 Vac, 60 Hz., 0.2 amps.  
**Ambient Operating Range:**  
-40 to +175° F.  
**Flame-Out Recognition Time:**  
0.8 seconds maximum.  
**Dimensions:** 1-1/2" H x 4" W x 5" D.  
**Mounting:** Panel mount or 4" x 4" junction box.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75680	50E47-843 UNIVERSAL HSI IGNITION MODULE	—

White  
Rodgers

## 21D83M Integrated Furnace Control Kit



Controls Gas Valve, Ignitor, Blower, Inducer, Humidifier and Air Cleaner, Replaces Lennox models. Includes diagnostic indicator flash codes, 3 fan speeds and remote flame sense.

**Kit Includes:**  
 1 - 50A66-843 Ignition Control Board  
 1 - Wiring Harness (9-pin to 12-pin)  
 1 - Wiring Harness (4-pin to 6-pin)  
 1 - Mounting Panel  
 4 - Stand-off fasteners  
 1 - Circuit Breaker  
 1 - 4" blue wire  
 2 - Wiring Diagrams

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75838	21D83M-843 SNG STG MODULE KIT FOR NITRIDE INTEGRATED FURNACES	—

White  
Rodgers

# Universal Spark Ignition Modules



The 50D50 Universal Spark Modules will replace virtually all competitive spark non-integrated modules. These Universal Spark Modules are designed to give dealers and service technicians reduced inventory providing a complete diagnostic system, thus making installations easier with fewer callbacks.

The 50E47 hot surface ignition module replaces White-Rodgers 50E47 modules and many competitive modules.

All Models include complete cross-reference and programming keys guide.

Manufacturer	Model	
<b>50D50-842 Replaces the Following Spark Direct Ignition Models</b>		
Honeywell	S8680	
	S87B1008	
	S87B1016	
	S87C1006	
	S87C1014	
	S87D1004	
	S87D1012	
Robertshaw	DS845 780-504	
<b>50D50-843 Replaces the Following Intermittent Pilot Models</b>		
Camstat	IPI-24-00	
Fenwal	05-203025-005; 05-203026-005	
Robertshaw	780-001; 780-002; 780-003	
	780-715; 780-735; 780-736	
	780-737; 780-845; SP715	
	SP715A; SP735; SP735D	
	SP735L; USI715U	
Honeywell	S86A1001; S86A1019; S86A1027	
	S86A1035; S86B1009; S86B1017	
	S86B1025; S86C1007; S86C1015	
	S86C1031; S86C1049; S86C1056	
	S86D1005; S86D1021; S86E1002	
	S86E1010; S86E1028; S86E1036	
	S86E1044; S86E1051; S86E1069	
	S86E1077; S86E1101; S86E1119	
	S86E1127; S86F1000; S86F1018	
	S86F1026; S86F1042; S86F1059	
	S86F1067; S86F1075; S86F1083	
	S86F1091; S86G1008; S86G1016	
	S86G1032; S86G1057; S86G1073	
	S86H1006; S86H1022; S86H1048	
	S86H1089; S86H1097; S86H1105	
	S86H1121; S86H1147; S90A1005	
	S90B1003; S90B1011; S8600A1001	
	S8600B1009; S8600C1015; S8600F1000	
	S8600F1034; S8600F1042; S8600H1006	
	S8600H1022; S8600H1048; S8600H1055	
	S8600H1089; S8600H1105; S8600M1005	
	S8600M1013; S8610A1009; S8610B1007	
	S8610B1015; S8610C1005; S8610F1008	
	S8610F1016; S8610F1024; S8610F1032	
	S8610H1012; S8610H1038; S8610H1046	
	S8610H1053; S8610H1079; S8610M1003	
	S8610M1029; S8610U1003; S8620H1002	
	S8620H1028	
	Johnson Controls	CSA35A-617R; CSA35A-618R; CSA42A-600R
		CSA42A-601R; CSA42A-602R; CSA42A-603R
		CSA42A-604R; CSA43A-600R; CSA44A-600R
		CSA45A-601R; CSA45A-602R; CSA46A-600R
		CSA48A-600R; CSA49A-600R; CSA49A-605R

Manufacturer	Model
<b>50D50-843 Replaces the Following Intermittent Pilot Models</b>	
Johnson Controls	CSA51A-601R; CSA52A-600R; G60AAA-1
	G60AAG-1; G60AAG-2; G60AAG-3
	G60AAG-4; G60AAG-5; G60AAG-6
	G60AAG-7; G60CAA-1; G60CAA-3
	G60CAG-1; G60CAG-2; G60CAG-3
	G60CAG-4; G60CAG-5; G60CAG-6
	G60CAG-7; G60CAG-8; G60CAG-9
	G60CBA-1; G60CBA-2; G60CBA-3
	G60CBG-1; G60CBG-10; G60CBG-11
	G60CBG-12; G60CBG-13; G60CBG-14
	G60CBG-15; G60CBG-16; G60CBG-17
	G60CBG-2; G60CBG-3; G60CBG-4
	G60CBG-5; G60CBG-6; G60CBG-7
	G60CBG-8; G60CBG-9; G60CCA-1
	G60CCG-1; G60CPG-1; G60DBG-1
	G60DCG-1; G60DCG-2; G60DCG-3
	G60DCG-4; G60PAG-1; G60PAG-2
	G60PAG-3; G60PAG-4; G60PAG-5
	G60PAG-6; G60PAJ-1; G60PAK-1
	G60PAK-2; G60PFH-1; G60PFH-2
	G60PFL-1; G60PFQ-1; G60PVL-1
	G60QAG-2; G60QAG-3; G60QAK-1
	G60QBG-1; G60QBG-2; G60QBG-3
	G60QBG-4; G60QBG-5; G60QBG-6
	G60QBG-7; G60QBG-8; G60QBG-9
	G60QBH-1; G60QBK-1; G60QBK-3
	G60QBL-1; G60QBL-2; G60QCG-1
	G60QCL-1; G60QCL-1; G60QDG-1
	G60QFL-1; G60QHL-1; G60QJL-1
	G60QLG-1; G60QPL-1; G60QRH-1
	G60QRL-1; G60QRL-2; G60QRL-3
	G60QSL-1; G60QTH-1; G60QTL-1
	G60RAG-1; G60RAK-1; G60RBG-1
	G60RBG-2; G60RBG-3; G60RBK-1
	G60RBK-2; G60RCG-2; G60RCJ-1
	G60RDG-1; G60RDK-1; G60RGL-1
	G60RHL-1; G60RHP-1; G60RPL-1
	G60RSL-1; G60ZAG-1; G65BBG-1
	G65BBG-2; G65BBG-3; G65BBG-4
G65BBG-5; G65BBG-6; G65BBG-7	
G65BBG-8; G65BBM-1; G65BBM-2	
G65BBM-3; G65BBM-4; G65BCG-1	
G65BCM-1; G65BFG-1; G65BFM	
G65BKG-1; G65BKG-2; G65BKG-3	
G65BKM-1; G65BKM-2; G65BKM-3	
G65BLG-1; G65BLG-2; G65DBG	
G65DBM-1; G65DBM-2; G65DBM-3	
G65DFM-1; G65DFG; G65DFM-1	
G65DKG; G65DKM; G65DKM-1	
G65DLM-1; G65FBG; G65FFG	

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Manufacturer	Model
Johnson Controls	<b>50D50-843 Replaces the Following Intermittent Pilot Models</b>
	G65FKG; G66AG-1; G66AG-2
	G66BG-1; G66MG-1; G66MG-2
	G66NG-1; G67AG-3; G67AG-4
	G67AG-7; G67AG-8; G67AG-9
	G67AG-10; G67AG-11; G67BG-2
	G67BG-3; G67BG-4; G67BG-5
	G67MG-1; G67MG-2; G67MG-3
	G67MG-4; G67NG-2; G67NG-4; G600AX-1
	G600AX-2; G600AX-3; G600AY-1
	G600LX-1; G600LX-2; G600LY-1
	G600MX-1; G600NX-1; G600RX-1
	G670AW-1; G670AW-2; G770LGA-1
	G770LGA-2; G770LGC-1; G770LGC-2
	G770LGC-3; G770LGC-4; G770LHA-1

Manufacturer	Model
Johnson Controls	<b>50D50-843 Replaces the Following Intermittent Pilot Models</b>
	G770LHA-2; G770LHC-1; G770MGA-1
	G770MGA-2; G770MGC-1; G770MGC-2
	G770MGC-3; G770MGC-4; G770MGC-5
	G770MGC-6; G770MHA-1; G770MHA-2
	G770MHC-1; G770NGA-1; G770NGC-4
	G770NGC-5; G770NGC-6; G770NGC-7
	G770NHA-1; G770NHC-1; G770RGA-1
	G770RHA-1; G770RHA-2; G775RGA-1
	G775RHA-1; G775RHA-2; Y79ABC-1
	Y79ABC-2; Y79ABC-3; Y79ABC-4
	Y79ABC-5; Y79ABC-6; Y79ABC-7
	Y79ABD-1; Y79ABD-2; Y79BBA-1
	Y79BBA-2; G779

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75680	50E47-843 UNIVERSAL IGNITION MODULE	—
1	EA	75681	50D50-842 UNIVERSAL DIRECT SPARK IGNITION MODULE	—
1	EA	75682	50D50-843 UNIVERSAL PROVEN PILOT SPARK CONTROL	—

## Honeywell L91B Proportional Pressuretrol Controller



Modulating pressure operating control for steam systems. May be used with steam, air, noncombustible gases or other fluids noncorrosive to brass or phos-bronze (300 PSI models) bellows. Adjustments to set point made by screws on top of case (L91B 1035/1050).

**Electrical Rating:** 24 Vac only.  
**Potentiometer:** 140 ohms (nominal).  
**Maximum Ambient Temperature:** 150° F.  
**Mounting Means:** 1/4 in. NPT male fitting for models with control ranges up through 15 PSI; 1/4 in. NPT female fitting for models with higher ranges or surface mounted through holes in back of case.

Model No.	Control Range		Max. Surge Pressure		Differential at Midscale			Number of Potentiometers
	psi	kPa	psi	kPa	Adj.	psi	kPa	
L91B1035	0 to 15	0 to 103	20	138	Yes	1 to 12	7 to 83	1
L91B1050	5 to 150	34 to 1034	225	1151	Yes	5 to 23	34 to 159	1

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	70482	L91B 1035 PRESSURETROL	—
10	EA	70483	L91B 1050 PRESSURETROL	—

## Honeywell L480G Refrigeration Controller



Used to limit or control temperature in air conditioning systems or refrigerated enclosures. Suitable for applications such as freezer cabinets, display cases, beverage coolers, milk cooling tanks, and air conditioners. May also be used as frost alarm operator in storehouses, or orchards where frost would damage crops or equipment. Includes dual temperature scaleplate. Manual reset.  
 U.L. Listed.

### Electrical Ratings (Amperes)

	120 Vac	120 Vac
Full Load	10.2	6.5
Locked Rotor	61.2	39.0

DC Rating: 0.2 A at 120 V; 0.1 A at 240 V.  
 Pilot Duty: 125 VA at 600 Vac.

**Switch Action:** SPST breaks control circuit on temperature fall.  
**Capillary Range:** 20 to 60° F. Length: 20 ft. (no bulb).  
**Fixed Additive Differential:** 10° F.  
**Ambient Temperature Range:** 20 to 140° F.  
**Maximum Sensor Range:** 225° F.  
**Approximate Case Dimensions:**  
 3-5/16" H x 3-11/16" W x 2-5/16" D.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	70541	L480G 1044 FREEZE-STAT	—

# Honeywell T675A and T678A Controllers



**T675, Standard**



**T678, Fast Response**

Remote bulb thermostats regulate temperature of air or liquids in ducts, pipes, tanks, and boilers. For applications requiring accurate temperature control of air or liquids where controller must be placed outside the sensing area. Typical uses include control of dampers and valves in heating, cooling, and heating-cooling systems.

Fast response models (available for use in return air duct) operate approximately 4 times faster than standard models.

**Bulb Size:** 1/2" x 4-3/16" for standard models, 1/2" x 3-9/16" available for 55 to 175° F models.

**Approximate Dimensions:** 5-5/8" H x 2" W x 2-5/8" D. U.L. Listed.

### Electrical Ratings (Amperes)

T675A & T678A Adjustable Differential Models

	120 Vac	240 Vac	277 Vac
Full Load	8.0	5.1	4.2
Locked Rotor	48.0	30.6	25.2

T675A Non-adjustable Differential Models:  
125 VA at 120/208/240/277 Vac.

Model No.	Control Range ° F	Capillary Length (Ft.) and Material	Max. Temp. ° F	Differential Degree F	Switching
T675A 1425	55 to 175	20 copper	200	3.6 to 12° F, adj.	SPDT switch breaks R-B and makes R-W at set point on temperature rise.
T675A 1508	0 to 100	5 copper	125	3 to 10° F, adj.	
T675A 1516*	0 to 100	5 copper	125	1° F, fixed	
T675A 1532*	160 to 260	5 copper	280	3 to 10° F, adj.	
T675A 1540*	55 to 175	5 copper	200	3.6 to 12° F, adj.	
T675A 1565*	0 to 100	20 copper	125	3 to 10° F, adj.	
T678A 1015	0 to 100	20 copper	125	Each switch fixed at 3° F; adj. diff. between switches 3 to 10° F.	2 SPDT switches operating in sequence. Right switch breaks R-B and makes R-W at set point on a temp. rise, left switch breaks R-B and makes R-W if temperature continues to rise through interstage differential.
T678A 1437*	0 to 100	5 copper	125	Each switch fixed at 3° F; adj. diff. between switches 3 to 10° F.	
T678A 1445*	55 to 175	5 copper	200	Each switch fixed at 3.6° F; adj. diff. between switches 3.6 to 12° F.	

\* Tradeline Models NOTE: Items T675A 1508, 1516, 1532, 1540, 1565, 1437, and 1445 include 107324A Bulb Holder.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	73000	T675A 1425 TEMPERATURE CONTROLLERS	—
4	EA	73001	T675A1540/U TEMPERATURE CONTROLLER	—
4	EA	73002	T675A 1565 TEMPERATURE CONTROLLER	—
4	EA	73003	T675A1508/U TEMPERATURE CONTROLLER	—
4	EA	73004	T675A1516/U TEMPERATURE CONTROLLER	—
4	EA	73006	T675A1532/U TEMPERATURE CONTROLLER	—
4	EA	73010	T678A 1437 TEMPERATURE CONTROLLER	—
4	EA	73011	T678A1015/U TEMPERATURE CONTROLLER	—
4	EA	73012	T678A1445/U TEMPERATURE CONTROLLER	—



# Honeywell T775U Electronic Temperature Controllers



The T775 family of electronic remote temperature controllers provides on/off modulating or reset control in applications where electronic accuracy in addition to remote sensing is desired. Typical applications include On/Off control of fans, motors, and heaters, proportional and floating control of damper and valve actuators, and outdoor reset of heating and cooling systems. LCD display indicates mode and output status; jumper switch provides field selection of F or C display. Key pad allows precise temperature selection.

Features include electronic control accuracy, linear platinum temperature sensor, remote sensing from up to 1000 ft., wide temperature setting range, adjustable differential and throttling range, and independently programmable heating and cooling stages.

**Differential:** 1 to 150° F.

**Set Point Range:** -20 to +240° F

**Temperature Accuracy:** +/- 1° F @ 77°

**Ambient Temperature Range:** -40 to +140° F.

**Voltage Input:** 24/120/240 Vac, 50/60 Hz.

**Throttling Range:** 1 to 150° F.

U.L. Listed.

### Electrical Ratings (Amperes)

	120 Vac	240 Vac
Full Load	9.8A	4.9A
Locked Rotor	58.8A	29.4A
Pilot Duty	125 VA	
Resistive	10.0A @ 24 Vac	

Model No.	Control Mode	No. of Inputs	No. of Relay Outputs
T775U 2006	SPDT	1	2

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	73043	T775U2006/U ELECTRONIC UNIVERSAL REMOTE TEMP CTRLR	—

## Honeywell T991A Proportional Temperature Controllers



For modulating control of water or air temperature in ducts, tanks, and similar applications. All models compensated for ambient temperature effects on case and tubing. Fast response models (for duct mounting) have coiled sensing element giving at least 4 times faster response than standard models. Sensing element capillary tubing allows remote mounting of sensing element. Set point may be read and adjusted through cover. Throttling dial inside case adjusts proportioning range.

**Pressure Rating:** 50 PSI.

**Element:** Liquid filled.

**Electrical Rating:** 24 to 30 Vac.

**Approximate Dimensions:** 5-5/8" H x 2" W x 2-1/4" D.

**Maximum Temperature at Element:** 125° F for 0 to 100° F range; 200° F for 55 to 175° F range; and 280° for 160 to 260° F range.

Model No.	Set Point Range F	Adj. Throttling Range F	Capillary Length and Material	Bulb Dia. x Length (In.)	Pot. Res. (ohms)
T991A 1012	0 to 100	3 to 30	20 ft. copper	1/2 x 4-3/16	135
T991A 1061	160 to 260	3 to 30	5 ft. copper	1/2 x 4-3/16	135
T991A 1194	55 to 175	3 to 30	20 ft. copper	1/2 x 3-9/16	135
T991A 1244†*	55 to 175	3.5 to 36	5 ft. copper	1/2 x 3-9/16	135
T991A 1269*	55 to 175	3.5 to 36	20 ft. copper	1/2 x 3-9/16	280
T991A 1350*	55 to 175	3.5 to 36	24 ft. copper	7/64 x 288	135
T991A 1426†*	0 to 100	3 to 30	5 ft. copper	1/2 x 4-3/16	135
T991A 1715	0 to 100	3 to 30	5 ft. copper	1/8 x 76.4	135
T991A 1756	55 to 175	3 to 30	5 ft. copper	1/8 x 76.4	135

\* Tradeline Models † 107324A Duct Bulb Holder Included.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	73147	T991A1061/U TEMP CTRL	—
4	EA	73148	T991A1426/U TEMP CTRL	—
4	EA	73149	T991A 1012 TEMP CTRL	—
4	EA	73150	T991A 1194 TEMP CNTL	—
4	EA	73151	T991A 1244 TEMP CTRL	—
4	EA	73153	T991A1350/U TEMP CTRL	—
4	EA	73154	T991A 1269 TEMP CTRL	—
4	EA	73155	T991A 1715 TEMP CNTL	—
4	EA	73156	T991A 1756 TEMP CNTL	—

## Honeywell T4031A Refrigeration Temperature Controller



Wide-range controllers used in applications where remote mounting of sensing element is required. Control temperature in a duct, tank, freezer, or cooler. Controller element can be directly immersed in the controlled medium. Adjustable control set point. Ambient temperature compensation provides good temperature control. SPST switch makes R to W on temperature rise.

**Temperature Range:** -30 to 90° F.

**Max. Ambient Operating Temp.:** 125° F.

**Differential (subtractive):** Adjustable 3.5 to 12° F.

**Capillary Length:** 8 ft.

**Approximate Case Dimensions:** 5-5/8" H x 2" W x 2-1/4" D.

**Capsule:** 3/8" Dia. x 3-9/16" L.

U.L. Listed.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
20	EA	73181	T4031A1073/U BULB TEMP CONTROL	—

# Honeywell T6031A Refrigeration Temperature Controller



Wide-range controller used in cooling applications where remote mounting of sensing element is required. Controls temperature in a duct, tank, freezer, or cooler. Controller element can be directly immersed in the controlled medium. Adjustable control set point. Ambient temperature compensation provides good temperature control.

U.L Listed

**Switch Action:** SPDT switch makes R to W on temperature rise, R to B on temperature fall.

### Electrical Ratings (Amperes)

	120 Vac		240 Vac	
	R-W	R-B	R-W	R-B
Full Load	16.0	8.0	8.0	5.1
Locked Rotor	80.0	48.0	40.0	30.6

R-B on temperature fall.

R-W on temperature rise.

**Maximum Ambient Operating Temperature:** 125° F.

**Differential (subtractive):** Adjustable 3.5 to 16° F.

**Approximate Case Dimensions:** 5-5/8" H x 2" W x 2-1/4" D.

**Capsule:** 3/8" Dia. x 3-9/16" L.

**Capillary Length:** 8 ft.

**Range:** -30 to +90° F; maximum temperature at element 130° F.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
20	EA	73185	T6031A1029/U TEMPERATURE CONTROLLER	—



## ICM325HC and ICM326HC Head Pressure Controls



### ICM325HC

Integral heat pump bypass circuitry allows electronic bypass of speed control during heat pump operation. Helps prevent evaporator freeze-ups, low pressure cutouts, and liquid-slugged compressors in low ambient conditions. One model covers 120-480 Vac. Features hard start, low temperature cutoff and high temperature bypass. Requires 24 Vac supply. Typical applications are heat pumps or air conditioners.



### ICM326HC

Helps prevent evaporator freeze-ups, low pressure cutouts, and liquid-slugged compressors in low ambient conditions. Features hard start, low temperature cutoff, and high temperature bypass. Isolated 24 FAC supply is built into the control. Typical applications include heat pumps, line voltage, air conditioning, and refrigeration.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	76008	ICM325HN HEAD PRESSURE CONTROL	—
1	EA	76009	ICM326HN HEAD PRESSURE CONTROL W/ HEAT	—

JOHNSON  
CONTROLS**P470 Electronic Pressure Control with Display**

The P470 Electronic Pressure Control with display is a single-stage, On/Off, electronic pressure control with an SPDT (Single-Pole Double-Throw) output relay. The control may be field set to operate in one of three pressure ranges (0 to 100 psi, 0 to 500 psi, or 50 to 750 psi), as either an open-high or open-low control.

- Large LCD that displays the sensed pressure and other system-status indicators, as well as the adjustable set points in the programming mode.
- Lockable, 3-button touchpad for adjusting setpoints
- Front-panel LED display indicates the output relay status.
- Uses a P399 Electronic Pressure Transducer to generate a pressure signal
- The enclosure, case, and cover are all made of NEMA 1 high-impact thermoplastic.
- U.L. Listed

**P470 Specifications**

Operating Pressure Range (psi)	0 to 100	0 to 500	50 to 750
Minimum Differential Pressure (psi)	5	20	20
Displayed Resolution (psi)	1	3	5

**Ratings**

	120 Volts	208 Volts	240 Volts
Horsepower N.O. (N.C.)	1 (1/4)	1 (1/3)	1 (1/2)
Full Load Amperes N.O. (N.C.)	16 (5.8)	9.2 (4.0)	8.0 (4.9)
Locked Rotor Amperes N.O. (N.C.)	96 (34.8)	55.2 (24)	48 (29.4)
Non-inductive Amperes N.O. (N.C.)	15 (10)	10 (10)	10 (10)
Pilot Duty	125 VA (N.O.) @ 24 to 240 VAC 125 VA (N.C.) @ 120 to 240 VAC 50 VA (N.C.) @ 24 VAC		
Supply Voltage	120 or 208/240 VAC, 50/60 Hz		
Power Consumption	1.8 VA max.		
Ambient Operating Temperature at Control	-30 to 140° F		
Ambient Humidity at Operating Control	0 to 95% RH non-condensing		
Maximum Dew Point	85° F		

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75351	P470EB-1C ELECTRONIC PRESSURE CONTROL WITH DISPLAY	—
1	EA	75352	P399AAC-1C 0-100PSI TRANSDUCER W/1/4IN SCHRADER	—
1	EA	75354	P399CAC-1C 0-700 PSI TRANSDUCER W/1/4IN SCHRADER	—

Robertshaw®

**Goldline Model Temperature Controls****Sensors**

All IE sensors are 10K OHM thermistor @ 77° F. All leads 10" except where noted. All IE sensors are interchangeable.

**Operating Temperature Range:**

-40 to 400° F.

**SD Duct Sensor:** Probe 5" and leads 3".

**SP-302 Series**

Two-stage universal temperature control with 1 SW sensor and ABC connector. Switch selectable stage options: 2 stage heat or 2 stage cool, or 1 heat/1 cool auto change. Stage offset 1 to 25° F. Separate differentials (1 to 25° F) Std. 24, 120, or 240 VAC. The SP-342 is used for heating and A/C applications.  
**Set Point Range:** 90 to 200° F.

**Sensor**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	EA	79630	SD 2000-039 DUCT SENSOR 1 EA	—

**SP-302 Series 2-Stage Universal Temperature Control**

1	EA	79618	ETC-211000-0000 ELECTRIC TEMPERATURE CONTROL	—
1	EA	79621	SP-342 ELECT TEMP CTL 2-STAGE	—

**White** ▾ **1609 Temperature Control**  
**Rodgers**



**1609-101 Refrigeration Temperature Control**

Provides positive control of refrigeration applications where remote control is desired. Features hydraulic action element, easy to wire terminals, adjustable differential, and dustproof steel case. High electrical ratings allow operation of most equipment without use of relays or motor starters.



**16E09-101 for Refrigeration and Heating Applications**

- The 16E09-101 replaces most mechanical and electronic single stage controls using an SPDT output relay
- Offers the widest multiple voltage operating range: 24/120/208/240 VAC for truly universal replacement
- Does not require a common wire when electrical load is greater than 2.5 amps
- Offers a wider than industry standard setpoint temperature range (-40° to 220° F) and adjustable differential settings
- Applications: Convenience store freezer control, reach-in coolers, supermarket display cases, boiler control, restaurant/convenience store walk-in coolers, condenser fan cycling, pump control, and space and return-air temperature.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75533	1609-101 W/R TEMP CONTROL	—
1	EA	75808	16E09-101 ELECTRONIC TEMPERATURE CONTROL	—

**White** ▾ **770 Dual Purpose Air Switch**  
**Rodgers**



Responds to positive, negative, or differential air pressure. Design eliminates "fluttering" or malfunction due to shock or vibration normally encountered with "Sail Switches". Furnished with one 6" piece 1/4" O.D. flexible tubing, nuts, and ferrules. Can be mounted in any position.

**Ambient Temperature:** -40 to 180° F.  
**Maximum Pressure:** 1/2 PSI.  
**Operating Range:** .07 to 12.0 W.C.  
**Switch Action:** SPDT.  
**Pilot Duty:** 300 VA.  
**Electrical Ratings (Resistive):** 15A at 120, 240, and 277 VAC

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75564	770-1 W/R AIR PRESSURE SWITCH	—



## Air Sensing Switch Kit



Series RSS-495-11 and RSS-498-13 Air Sensing Switch Kits contain compact, economical switches designed for a residential furnace and light commercial aftermarket applications.

**Adjustable Range:**

RSS-495-11: .25 + .05" W.C. to 1.0 + .05" W.C.  
 RSS-498-13: 1. + .05" W.C. to 4. + .05" W.C.

**Operating Temperature Range:**

RSS-495-11: -40° F to 190° F  
 RSS-498-13: -40° F to 180° F  
 UL, CSA approved.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	76774	RSS-498-13 1.0" W.C TO 4.0" W.C. AIR SENSING SWITCH KIT	—
1	EA	76775	RSS-495-11 0.25" W.C TO 1.0" W.C AIR SENSING SWITCH KIT	—



## Small Footprint Air Switch

This small footprint universal air switch has five separate springs for an equal number of ranges from .01" WC to 10" WC. Set screw can be adjusted with the enclosed allen wrench. Eight different orifice restrictors to set different time delays and two brackets with screws fit all applications.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	76773	NS2-0000-03 UNIVERSAL SMALL FOOTPRINT AIR SWITCH	—



## Series 2000 Magnehelic® Differential Pressure Gage



The Magnehelic® gage is the industry standard to measure fan and blower pressures, filter resistance, air velocity, furnace draft, pressure drop across orifice plates, liquid levels with bubbler systems and pressures in fluid amplifier or fluidic systems. It also checks gas-air ratio controls and automatic valves.

**Temperature Limits:** 20 to 140° F

**Accuracy:** ±2% of full scale throughout range at 70° F

A-432 Plastic Carrying case includes 9 ft. of 3/16" ID rubber tubing, stand-hang bracket and terminal tube with holder. 9.1" x 7.4" x 3.6"

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82539	2002 0 - 2.0 MAGNEHELIC DIFF PRESSURE GAGE	—
1	EA	82439	A-432 PORTABLE KIT	—

## Honeywell C7046A Discharge Air Temperature Sensor



Electronic discharge air temperature sensor for use with W973 logic panel. Sends modulating resistance signal to W973 Logic Panel where it is balanced against the space or return air temperature signals to determine the exact amount of heating or cooling needed to satisfy the controller space. No set point.

Temp. Range °F	Max. Ambient Temp. °F	Insertion Length	Sensor Resistance (Nominal)	Sensitivity Per °F
40 to 150	250	8"	3000 ohms at 77 °F	70 ohms

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
20	EA	70295	C7046A1004/U SENSOR	—

## Honeywell C7100A Averaging Discharge Sensor



Provides the input required by the W7100 discharge air temperature controller. No setting or calibration required. Mounts in duct wall or in a 2"x 4" junction box.

- Wiring Connections: 1/4" male quick-connect terminals.
- Humidity Ratings: 5 to 90% RH, non condensing.

Temp. Range °F	Max. Ambient Temp. °F	Insertion Length	Sensitivity (Ohms/1° F)	Resistance at 77° F
40 to 220	250	13"	4.8	3484

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	70302	C7100A 1015 AVG DISCH SENSOR	—

## Honeywell C7400A Solid State Enthalpy Element



C7400 solid state enthalpy element senses temperature and humidity and is used with the W7459 solid state economized control package. It permits the use of outdoor air as first stage of cooling in HVAC systems.

**Operating Range:** -25° to +125° F.  
**Humidity Ratings:** 5% or 95% RH.  
**Electrical Connection:** 2-1/4" Guide Terminal.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	70304	C7400A2001/U ENTHALPY SENSOR	—

## Honeywell C6097A and B Pressure Switches



Safety devices used in positive-pressure or differential-pressure systems to sense gas or air pressure changes. Includes switch position indicator.

**Ambient Temperature Rating:** -40° F to 140° F  
**Mounting:** 1/4 in. NPT internal thread  
**Pipe Connections, Vent or Low Pressure:** 1/8 NPT internal thread

Model No.	Scale Range		Suitable For		Includes	Differential				Switch Action	Electrical Ratings	
	Water (In.)	kPa	Gas <sup>2</sup>	Air		Nominal		Maximum			Break on Pressure	FLA
						Water (In.)	kPa	Water (In.)	kPa			
C6097A 1012	3.0 to 21.0	0.7 to 5.2	Yes	Yes	Man. Reset <sup>1</sup>	2.4	.6	4.2	1.05	Fall	3.0	18.0
C6097B 1028	3.0 to 21.0	0.7 to 5.2	Yes	Yes	Man. Reset <sup>1</sup>	2.4	.6	4.2	1.05	Rise		
C6097A 1053	3.0 to 21.0	0.7 to 5.2	Yes	Yes	Auto Recycle	.24	.06	.48	.12	Fall		

<sup>1</sup> Locks out when pressure rises to set point; can be reset manually after pressure falls to set point minus differential.

<sup>2</sup> Natural, LP, manufactured, and mixed gases.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	70215	C6097A 1012 PRESS SWITCH	—
10	EA	70216	C6097A1053/U PRESS SWITCH	—
10	EA	70218	C6097B 1028 PRESS SWITCH	—

## Honeywell C7008A Flame Rod and Holder



This miniature "Spark Plug" type flame rod holder with threaded base, snap-on cover, and Kanthal A-1 flame rod is used with Honeywell flame safeguard controls requiring rectification type flame detector. For use with gas only. Installs with or without cover. Flame rod may be cut to desired length.

**Mounting Means:** 1/4 in NPT male. Rajah electrical connector.  
U.L. Listed.  
Factory Mutual approved.  
Industrial Risk Insurers acceptable.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	70260	C7008A1174/U FLAME ROD ASSEMBLY	—

## Honeywell C7009A Flame Rod and Holder



Subminiature "Spark Plug" type flame rod holder with flame rod. Especially suited for use on industrial flame-retention burner nozzle. Used with Honeywell flame safeguard controls requiring rectification type flame detector. Flame rod may be cut to desired length.

**C7009A 1025 Flame Rod Length:** 12 in.  
**C7009A 1009 Flame Rod Length:** 4 in.  
**Length without Flame Rod:** 2-3/8 in.  
**Diameter:** 3/8 in.  
**Mounting Means:** 1/8 in. NPT male. Rajah electrical connector.  
U.L. Listed.  
Factory Mutual approved.  
Industrial Risk Insurers acceptable.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	70262	C7009A 1025 FLAME ROD ASSEMBLY	—
10	EA	70264	C7009A1009/U FLAME ROD ASSEMBLY	—

## Honeywell C7012A and E Solid State Purple Peeper Ultraviolet Flame Detectors



Solid state electronic flame detectors for use with appropriate Honeywell combustion controls and amplifiers. Sense ultraviolet radiation produced by combustion of gas, oil, coal, or other fuels. Direct replacement for C7012 detectors with vacuum tubes.

These flame detectors can be mounted horizontally, vertically, or at any angle in between. Threaded conduit fitting and color coded leadwires for quick electrical hookup. Two detectors can be wired in parallel to reduce nuisance shutdowns

Model Number	Electrical Connections	Lead Length (In.)	Mounting	NEMA Rating	Ambient Temp. Range Degrees F	Electrical Ratings	Frequency
C7012A 1194	4 NEC Class 1 Color-coded leadwires	96	3/4 in. NPT	NEMA 4	25° to +175°	240 Vac	50 Hz; 60 Hz
C7012E 1112	6 NEC Class 1 Color-coded Leadwires		1 in. NPT		-20° to +175°	120 Vac	

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
2	EA	70271	C7012A 1194 240V FLAME DETECTOR	—
2	EA	70272	C7012E 1112 240V FLAME DETECTOR	—



# Honeywell C7027A Minipeeper Ultraviolet Flame Detector



Compact flame detector for use with RA890G, R7023C, R4795, R7795A and C, R4075, R4138, R4140, BC7000, BCS7700, and 7800 series flame safeguard controls with ultraviolet amplifiers.

Model No.	Ambient Temperature Range		Lead Length (Ft.)
	°F	°C	
C7025A 1023	0 to +250	-18 to +102	6
C7027A 1031	-40 to +215	-40 to +102	6
C7027A 1049*	0 to +215	-18 to +102	6
C7027A 1064*	-40 to +215	-40 to +102	24

\*1/2" NPT threaded spud connector.

Use on Honeywell flame safeguard primary safety controls and burners requiring ultraviolet flame detection. UV sensing tube is not field replaceable; entire unit can be economically replaced.

**Mounting Means:** Integral nut for 1/2" sighting pipe.

**Dimensions:** 1-1/16" dia. (mounting nut), 4" L.

U.L. Listed.

Industrial Risk Insurers acceptable.

Factory Mutual approved.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	70289	C7027A1023/U 6FT LEAD FLAME DETECTOR	—
10	EA	70293	C7027A1031/U 6 FT LEAD FLAME DETECTOR	—
10	EA	70291	C7027A1049/U 6 FT LEAD FLAME DETECTOR	—
10	EA	70292	C7027A1064/U 24 FT LEAD FLAME DETECTOR	—

# Honeywell FSP1535 Tester



Provides quick operational check of RA890 or R4795 nonprogramming primary controls. Indicator light visually represents functions of ignition, pilot, and main valve as unit simulates system operation. Eliminates need to operate entire system. Units with rated voltage from 100 to 240, 50/60 Hz. can be tested by connecting line cord to that rated voltage.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	70402	FSP1535 TESTER	—

# Honeywell Flame Safeguard Core Credit

Core credit will be given to the following Honeywell Flame Safeguard items only.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	74000	CORE CREDIT FOR BC7000L;R4138A,B,C,D;R4140	—
1	EA	74001	CORE CREDIT FOR RA890F,G,H; R4795A,D; R7795A,B,C,D	—

## Honeywell R4795A Primary Controls



Provide solid state, electronic, flame safeguard protection for commercial and industrial single or dual fuel burners. Interchangeable, plug-in amplifiers permit R4795 to be used with rectification or ultraviolet-type flame detectors. R4795A recycles once after flame failure in attempt to re-establish pilot before lockout. R4795D provides lockout on flame failure or flame relay pull-in during prepurge.  
**Power Consumption (at 60 Hz.):** 6.0 W maximum for rectification; 8.0 W maximum for ultraviolet.  
**Voltage (50/60 Hz.):** 120.

**Safety Switch Timing:** 15 seconds, nominal.  
**Alarm Contacts:** SPDT.  
**Ambient Temperature Rating:** -20° to 115° F.  
**Required Components (Order Separately):**  
**Mounting Base:** Q270A 1024 permits recessed or surface mounting.  
**Plug-in Amplifier:** R7289A 1004, R7289A 1012, R7290A 1001, and R7290A 1019.  
**Plug-in Purge Timer:** ST71A 1000 (7 sec.), ST71A 1042 (10sec.), ST71A 1018 (30 sec.), ST71A 1026 (60 sec.), ST71A 1034 (90 sec.).

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	72416	R4795A1016/U RELAY	—

## Honeywell R7249 Flame Safeguard Amplifiers



Solid state plug-in units respond to flame detector signal and indicate presence of flame. Used with R4140, R4075C, D, E, R4138C, D flame safeguard controls, and appropriate flame detector.  
 U.L. Listed.  
 Industrial Risk Insurers (formerly FIA) acceptable.  
 Factory Mutual approved.

Plug-in Flame Signal Amplifiers					Applicable Flame Detectors		
Model No.	Type	Device Color	Self-Checking	Flame Failure Response Time	Fuel	Type	Models
R7249A 1003	Ultraviolet	Purple	No	2 to 4 sec.	Gas, Oil, Coal	Ultraviolet (Minipeeper)	C7027, C7035

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	72429	R7249A 1003 AMPLIFIER	—

# Honeywell R7289 and R7290 Flame Safeguard Amplifiers



Solid state, plug-in units allow use of rectification or ultraviolet flame detection. Use with R4795A and D flame safeguard primary controls and appropriate flame detector. U. L. Listed.

Model No.	Type	Flame Failure Response Time (seconds)	Use With	Type	Model
R7289A 1004	Rectification (green)	3.0	Gas, oil, coal	Rectifying Photocell Flame Rod, or Ultraviolet (Purple Peeper).	Holders <sup>1</sup> : C7004, C7007. Complete Assemblies: C7005, C7008, C7009, C7010, C7012A, C and Q179.
R7289A 1012 <sup>2</sup>		0.8			
R7289A 1010 <sup>2,3</sup>		3.0			
R7290A 1001	Ultraviolet (purple)	3.0		Ultraviolet (Minipeeper)	C7027; C7035
R7290A 1019 <sup>2</sup>		0.8			
R7290A 1027 <sup>2,3</sup>		3.0			

<sup>1</sup> Order flame rod separately.

<sup>2</sup> Special Order Items

<sup>3</sup> Minimum Ambient Temperature: -40F

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	72447	R7289A 1004 AMPLIFIER	—
1	EA	72448	R7290A 1001 AMPLIFIER	—

# Honeywell R7795A, B, C, and D Primary Controls



These controls provide solid state, electronic, flame safeguard protection for commercial and industrial single or dual fuel burners. Includes flame signal amplifiers that are color-coded, is field selectable recycle or lockout on flame failure, and requires manual reset after safety switch lockout. U.L. Listed.

Model No.	Voltage (50/60 Hz)	Pilot Function	Flame Detection System		Required Components (Order Separately)		Mounting Subbase
			Type	Use with Sensor	Plug-In Prepurge Timer	Sec.	
R7795A 1001	120	Intermittent	U.V.	C7027A, C7035A, Minipeeper	ST795A 1007*	1.5	Q795A 1004 (4 sides) Q795A 1012 (No sides)
R7795B 1009	120	Intermittent	Rectification	Flame rod, rectifying photocell, C7012A, C	ST795A 1015* ST795A 1023	7 10	
R7795C 1007	120	Interrupted	U.V.	C7027A, C7035A, Minipeeper	ST795A 1031	30	
R7795D 1005	120	Interrupted	Rectification	Flame rod, rectifying photocell, C7012A, C	ST795A 1095* ST795A 1056	60 90	

\* Special order items

## R7795 Controls

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	72481	R7795A 1001 RELAY	—
10	EA	72482	R7795B 1009 RELAY	—
10	EA	72483	R7795C 1007 RELAY	—
10	EA	72484	R7795D 1005 RELAY	—

## ST795A Timers

1	EA	72760	ST795A 1023 TIMER	—
1	EA	72761	ST795A 1031 TIMER	—
1	EA	72763	ST795A 1056 TIMER	—

## Honeywell RA890F Protectorelay Primary Controls



Primary control provides solid state, electronic, flame safeguard protection for industrial and commercial single or dual fuel burners. Uses rectification principle of electronic flame detection. Directly replaces RA890E in most applications, mounts on same Q270A 1024 Subbase. Relights after flame failure in attempt to re-establish pilot before lockout. Safe-start check prevents start-up if flame-simulating failure occurs in flame detector circuit. Includes built-in protection against ignition crossover in flame rod systems.

Model No.*	Voltage 50/60 Hz.	Safety Switch Timing (Sec.)	Flame Failure Response Time (Sec.)‡	Alarm Contacts (SPDT)
RA890F 1270	120	15	0.8	Yes
RA890F 1288	120	15	3.0	Yes
RA890F 1346	120	30	3.0	Yes

\* For new installation, also specify Q270A 1024 base.

‡ 3-second response is recommended for nonrecycling ignition cutoff service.

Approximate Dimensions (including subbase):  
5" H x 5" W x 4-3/4" D.

U.L. Listed.

Industrial Risk Insurers acceptable.

Factory Mutual approved.

AGA design certified for -20° F.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	72611	RA890F 1270 PROTECTORELAY	—
10	EA	72618	RA890F 1288 PROTECTORELAY	—
10	EA	72609	RA890F 1346 PROTECTORELAY	—

## Honeywell RA890G Protectorelay Primary Controls



Primary control provides solid state, electronic, flame safeguard protection for industrial and commercial single or dual fuel burners. Used for interrupted ignition and intermittent pilot on gas burners; interrupted or intermittent ignition on oil burners. Uses C7027, C7035, or C7044 Minipeeper Ultraviolet Flame Detector for flame sensing. Mounts on Q270A 1024 subbase (order separately). Relights after flame failure in attempt to re-establish pilot before lockout. Test jack permits reading of flame signal.

Model No.*	Voltage 50/60 Hz.	Safety Switch Timing (Sec.)	Flame Failure Response Time (Sec.)‡	Alarm Contacts (SPDT)
RA890G 1229	120	15	0.8	Yes
RA890G 1260	120	15	3.0	Yes

\*For new installation, also specify Q270A 1024 base.

‡ 3-second response is recommended for nonrecycling ignition cut off service.

Ambient Temperature Range: -20° to 115° F (50 Hz models).

Approximate Dimensions (including subbase):

5" H x 5" W x 4-3/4" D.

U.L. Listed (120V models only).

Factory Mutual approved.

AGA design certified for -20° F.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	72621	RA890G 1229 PROTECTORELAY	—
10	EA	72622	RA890G1260/U PROTECTORELAY	—

# Honeywell C7035A Minipeeper Ultraviolet Flame Detector



Compact flame detector for use with RA890G, R7023C, R4795, R4138, and R4140 flame safeguard controls with ultraviolet amplifiers. Used on gas, oil, coal, or combination burners. Detects ultraviolet radiation from all flames. Sensing collar for 1" NPT sighting pipe.

**Ambient Temperature Range:** 0 to +250° F.  
**Dimensions:** 1-1/2" dia. (mounting collar), 4-1/8" long.  
**Lead Length:** 6 Ft.  
 U.L. Listed.  
 Industrial Risk Insurers acceptable.  
 Factory Mutual approved.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	70294	C7035A 1023 FLAME DETECTOR	—



## M-Series and MicroM FlameSafeguard Components Selection Guide

### M-Series

M-Series II Replacement Components				
Part Number	Chassis	Amplifier	Programmer	Programmer Dipswitch #8
UVM1D	MC120	MAUV1T	MP100	N/A
UVM1F	MC120	MAUV1	MP100	N/A
TFM1D	MC120	MART1T	MP100	See Note 1
TFM1F	MC120	MART1	MP100	See Note 1
UVM2	MC120	MAUV1	MP230	Off
TFM2	MC120	MART1	MP230	Off
UVM3	MC120	MAUV1	MP230	On
TFM3	MC120	MART1	MP230	On
UVM3H	MC120	MAUV1	MP230H	On
TFM3H	MC120	MART1	MP230H	On
UVM5	MC120	MAUV1	MP560/562	On
UVM6	MC120	MAUV1	MP560/562	See Note 2

N/A: Not Applicable. Programmer Dipswitches apply to MP230H and MP560 only. Dipswitch #8 sets Recycle/Non-Recycle Operation. MP560 Programmer Module has Check-Run Switch. Note 1: For Standing Pilot, clip out red jumper on MP100. Note 2: Dipswitch #8 is ON when red jumper of UVM6 is clipped.

### MicroM

MicroM Replacement Components			
Chassis	Amplifier	Programmer	Programmer Dipswitch #6
MEC120	MEUV1	MEP100	N/A
MEC120	MEUV4	MEP100	N/A
MEC120	MERT1	MEP100	N/A
MEC120	MERT4	MEP100	N/A
MEC120	MEUV4	MEP230	C
MEC120	MERT4	MEP230	C
MEC120	MEUV4	MEP230	O
MEC120	MERT4	MEP230	O
MEC120	MEUV4	MEP230H	O
MEC120	MERT4	MEP230H	O
MEC120	MEUV4	MEP560	O
MEC120	MEUV4	MEP560	C

N/A: Not Applicable. Programmer Dipswitches apply to MEP200 and MEP500 Series Programmers. Dipswitch #6 sets Recycle/Non-Recycle Operation. (O = Non-Recycle and C = Recycle). MEP500 Series Module has Check-Run Switch.

### Programmer Dipswitch Settings

M Series						
#1	#2	#3	#4	#5	#6	#7
On	OFF	OFF	OFF	OFF	ON	OFF
OFF	ON	OFF	OFF	OFF	ON	OFF
OFF	OFF	ON	OFF	OFF	ON	OFF
OFF	ON	OFF	OFF	OFF	OFF	ON
OFF	OFF	ON	ON	OFF	ON	OFF
OFF	OFF	ON	OFF	OFF	OFF	ON
OFF	OFF	OFF	ON	OFF	OFF	ON
OFF	OFF	ON	ON	OFF	OFF	ON

Dipswitches #1 through #5 set Purge Timing. Dipswitches #6 through #7 set TFI Timing.

MicroM			
#1	#2	#3	#4
C	C	C	C
C	C	C	C
O	C	C	C
C	C	O	O
O	O	C	C
O	C	O	O
C	O	O	O
O	O	O	O

Dipswitches #1 and #2 set Purge Timing. Dipswitch #4 sets TFI Timing. Dipswitch #6 sets Recycle/Non-Recycle.



## Modular M-Series Flame Safeguard Controls



### Flame Amplifiers

The Fireeye MART1, MART1T, MAUV1, and MAUV1T are amplifier modules with the Fireeye Modular M-Series II control. These amplifier modules provide flame scanning capabilities using any of the Fireeye standard ultraviolet scanners (self-check scanners, not applicable), flame rods, and photocells.

The Flame Failure Response Time (F.F.R.T) of the control is determined by the selection of the amplifier module (see M-Series Cross Reference Listing). Test jacks are provided on the amplifier modules to permit flame signal measurement during operation.

### Flame Amplifier Selection

Model No.	Description	Use with Scanner
MAUV1	UV amplifier, 2-4 second F.F.R.T.	UV1A, UV2, UV8A, 45UV3-1050
MAUV1T	UV amplifier, .8 second F.F.R.T.	UV1A, UV2, UV8A, 45UV3-1050
MART1	Flame rectification amplifier 2-4 second F.F.R.T.	45CM1, 69ND1
MART1T	Flame rectification amplifier .8 second F.F.R.T.	45CM1, 69ND1

### Chassis

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 PURCH	PC-3 EXCH
1	EA	77408	MC120 CHASSIS	—	—

### Amplifier Modules

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77397	MART1 FLAME RECT AMP MODULE	—
1	EA	77403	MART1T FLAME RECT AMP MODULE	—
1	EA	77405	MAUV1 UV AMP MODULE	—
1	EA	77407	MAUV1T UV AMP MODULE	—
1	EA	77419	23-176 2AG 125V 8AMP FUSE	—
1	EA	77425	61-3060 FIREYE BASE	—

### Programmer Modules

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 PURCH	PC-2 EXCH
1	EA	77347	MP230H PROGRAMMER MODULE	—	—
1	EA	77348	MP560 PROGRAMMER MODULE	—	—
1	EA	77349	MP562 PROGRAMMER MODULE	—	—
1	EA	77409	MP100 PROGRAMMER MODULE	—	—
1	EA	77410	MP230 PROGRAMMER MODULE	—	—



## Modular MicroM Flame Safeguard Controls



The Fireeye MicroM Series Flame Safeguard Control is a compact, microprocessor based, modular burner management system designed to provide automatic ignition and continuous flame monitoring for commercial sizes of heating and process equipment firing any type of fuel.

The MicroM is designed to be backward compatible with existing M-Series controls. The advantages of the MicroM are zero dependence on discrete components previously used for timing functions. The Micro M, through the use of micro-controller technology, incorporates smart diagnostic LEDs, smart reset function, optional alpha-numeric display output (ED510), and serial communications via a Modbus or E500 Communication Interface. The MicroM system also provides additional amplifier selections.

### Amplifier Modules

The Fireeye MEUV4 is an Amplifier Module used with the Fireeye Modular MicroM control. This amplifier module provides flame scanning capabilities using any of the Fireeye standard ultraviolet scanners, self-check scanners, infrared scanners, cadmium sulfide scanners, flame rods, and photocells.

The Flame Failure Response Time (FFRT) of the control is determined by the selection of the amplifier module. Test jacks are provided on the amplifier modules to permit flame signal measurement during operation and is a uniform 0-10 vdc for all models.

### Programmer Modules

The MEP 230 features selectable purge timing, PTFI timing, Recycle/Non-Recycle, post purge, and prove air open at start.

### Plug-in Board Module

The MicroM provides remote reset, remote alpha-numeric display, and serial communications as stand-alone or in combination through the employment of an optional board.

### Flame Amplifier Selection

Model No.	Description	Use with Scanner
MEUV4	UV amplifier, 3 second F.F.R.T.	UV1A, UV2, UV8A, 45UV3-1050
MERT4	Flame Rod/Photocell Amplifier, 3 Second F.F.R.T	69NDI, 45 CM1

### Chassis

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 PURCH	PC-3 EXCH
1	EA	77333	MEC120 MICRO M CHASSIS	—	—

### Amplifier Module

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77336	MEUV4 MICRO M AMPLIFIER	—

### Programmer Module

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 PURCH	PC-2 EXCH
1	EA	77335	MEP230 MICRO M PROGRAMMER	—	—

### Plug-in Board Module

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77340	MED6 MICRO M PLUG-IN BOARD MODULE	—



## MB Multi Burner Flame Safeguard System Amplifier

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77351	61-3359 120V UV AMPLIFIER	—



## Burner Control Components



**60-1386-2 Base:** Surface mount for D and E Series control systems.

**60-1466-2 Base:** Cabinet mount for D and E Series control systems.

**Replacement Components for Modernization Kits:**

PFM1R, PFM2R, PFM3R, PFM9R, and PFM10R

**E110:** Consists of one each EB700, 48-1836, and EC600.

**EP160:** Selectable 60 Sec. purge, 10 and 15 Sec. T.F.I., non-recycle.

**EP260:** Selectable 60 sec. purge, 10 and 15 sec. T.F.I., recycle.

**EP390:** Selectable 90 sec. purge, 5 and 10 sec. T.F.I., selectable recycle/non-recycle, no modulation.

**EIR1:** Infrared auto-check, use with 48PT2.

**EUV1:** Ultraviolet, use with UV1 or 45UV3.

**ERT1:** Flame rectification.

### C and D Series Upgrade to EPD Programmer Modules and Flame-Monitor Systems

Model No. Series C	Series D Component	Flame-Monitor Using EPD Modules	Flame-Monitor Components
25CU6-5065	71D60 72DUV1	EPD160 EUV1	RP160 EUV1
25CU6-5066	71D60 72DUV1	EPD260 EUV1	EP260 EUV1
25CF6-5022	71D60 72DIR1	EPD160 EIR1	EP160 EIR1
26CF6-5023	71D60 72DIR1	EPD260 EIR1	EP260 EIR1
25CU6-5062	70D30 72DUV1	E110 EPD380 EUV1	E110 EUV1

Model No. Series C	Series D Component	Flame-Monitor Using EPD Modules	Flame-Monitor Components
25CU6-5063	70D30 72DUV1	E110 EUV1	E110 EUV1
25CF6-5020	70D30 72DIR1	E110 EPD380 EIR1	E110 EIR1
25CF6-5021	70D30 72DIR1	E110 EIR1	E110 EIR1
24CJ5-5010	70D30	E110 EPD380 ERT1	E110 ERT1
24CJ5-5011	70D30	E110 ERT1	E110 ERT1

NOTE: When E110 and E100 Chassis are used, terminal 13 must be powered from 3 to 13 on the wiring base.

### Bases

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77424	60-1386-2 FIREYE BASE	—
1	EA	77426	60-1466-2 FIREYE BASE	—

### Programmers and Amplifiers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 PURCH	PC-2 EXCH
1	EA	77429	71D60 PROGRAMMER	—	—
1	EA	77439	72DUV1 AMPLIFIER	—	—

### Replacement Components for Modernization Kits

1	EA	77353	EP160 MODULE	—	—
1	EA	77354	EP260 MODULE	—	—
1	EA	77356	EP390 MODULE	—	—
1	EA	77357	E1R1 AMPLIFIER	—	—
1	EA	77358	ERT1 AMPLIFIER	—	—
1	EA	77359	EUV1 AMPLIFIER	—	—
1	EA	77898	E-110 FLAME MONITOR	—	—
1	EA	77901	ED510 KEYPAD DISPLAY	—	—





## Scanners and Scanner Parts



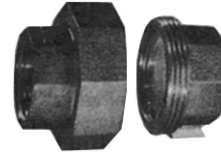
**48PT2-1007** 4 Ft. Cable, Infrared, Straight Head



**48PT2-9007** 4 Ft. Cable, Infrared, Angle Head



**UV-1A6** 6 Ft. Cable, UV, 1/2" NPT, 90° Mtg.



**UV-2** 3 Ft. Flux Conduit, 3/8" NPT, Straight Head



**35-69** Heat Insulator Reduces conduction of heat from sight pipe to scanner. Pipe Connection: 1/2"

### Scanners

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77423	45UV5-1009 UV SCANNER	—
1	EA	77389	48PT2-1007 INFRARED SCANNER	—
1	EA	77390	48PT2-9007 INFRARED SCANNER	—
1	EA	77382	UV1A6 UV SCANNER	—
1	EA	77383	UV2 UV SCANNER	—

### Scanner Parts

1	EA	77377	4-263-1 FIRETRON CELL F/48PT2	—
1	EA	77385	35-69 HEAT INSULATOR	—

White  
Rodgers

## 668 Series Kwik-Sensor Cad Cell Relays



**668-430** replaces intermittent ignition Kwik-Sensor cad cell relays on oil burner systems with 45 second safety timing. Exclusive signal-lite glows whenever safety lock-out occurs. Use with 956-154 flame detector. 120 Vac, 60 Hz. standard input voltage, and 24 Vac control voltage. 10" useable leads and mounts to 4" x 4" junction box.



The **956-154** is a solid state electronic flame detector which utilizes light intensity to sense the presence of a flame in oil burning heating equipment. It has 60" leads and includes six brackets for multi-sensor requirements.

### Kwik-Sensor Control and Replacement Cad Cell For Old Style Flame Detectors

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75563	668-430 W/R KWIK-SENSOR	—

### Flame Detectors

1	EA	75567	956-154 W/R FLAME DETECTOR	—
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## Honeywell 7800 Series Burner and Boiler Controls

The 7800 Series Burner Control is a micro-processor based integrated control for gas, oil, or combination fuel single burner application. The 7800 Series consists of a relay module, subbase, amplifier, keyboard display module, and purge card. Options include personal computer communication interface, control bus module, remote display mounting, first out expanded annunciator, and ZM7850 combustion system manager.

The 7800 Series is programmed to provide safety, functional capability, and features beyond the capacity of conventional controls. The 7800 Series is Underwriters Laboratories Inc., listed, Canadian Standards Association listed, and Factory Mutual approved.

Functions provided by the 7800 Series include automatic or semi-automatic burner sequencing, flame supervision, system status indication, historical files (total cycles, total hours, last six lockouts), system or self-diagnostics, and troubleshooting aid.

The 7800 Series communication interface option provides local and remote monitoring and diagnostics of the 7800 Series by using an IBM® equivalent personal computer and Microsoft Windows 3.0 (or current) software.

The first out expanded annunciator provides system status indication for up to 21 points for system and self diagnostics beyond standard 7800 Series functions. The S7800 remote keyboard display module mounting provides system status monitoring from multiple locations.

### Features

- Dynamic self-check logic.
- Dynamic safety relay test.
- Tamper resistant timing and logic.
- Dynamic input check.
- First out annunciation and system diagnostics are provided by a 40 character vacuum fluorescent display (VFD) located on the keyboard display module.
- Five LEDs for system sequence status.
- Five function Run/Test switches.
- Nonvolatile memory, (7800 Series retains history files and sequencing status after loss of power).
- Interchangeable plug-in flame amplifiers.
- Dependable, long term operating microcomputer technology.
- Communication interface capability.
- Local or remote annunciation of 7899 Series shutdowns.
- First out expanded annunciation with 24 LEDs for limit or interlock status.
- Application flexibility.
- Off cycle flame signal check
- Pre-ignition interlock check
- Airflow switch check
- Configuration jumpers for sequence timings and tests

- Field selectable flame failure response timings
- Interchangeable purge timers
- Remote rest
- Modernization adapter subbases
- Interchangeable mounting subbases
- Burner Controller Data
  - Sequence status
  - Sequence time
  - Hold status
  - Lockout/alarm status
  - Flame signal strength
  - Expanded annunciator status
  - Total hours of operation
  - Total cycles of operation
  - Fault history, of the six most recent faults
    - Fault Message and Code
      - Sequence status at the time of fault
      - Expanded annunciator data at the time of fault
      - Cycles of operation at the time of fault
      - Hours of operation at the time of fault
  - Diagnostic information
    - Relay module type
    - Software revision and version
    - On/off status of all digital inputs/outputs
    - Status of configuration jumpers
    - Selected prepurge time
    - Flame failure response time
    - Flame amplifier type
    - Manufacturing date code

### Specifications

- **Electrical Ratings:**
  - Relay Module: 120VAC (+10/-15%); 50 or 60 Hz. (+/-10%).
  - Display Module: 13 Vdc (+10/-15%); 50 or 60 Hz. .
  - Expanded Annunciator: 120 Vac (+10/-15%); 50 or 60 Hz.
- **Power Dissipation:**
  - Relay Module: 10 watts maximum.
  - Expanded Annunciator: 5 watts maximum.
  - Keyboard Display Module: 3 watts maximum.
  - Communication Interface: 5 watts maximum.
  - Maximum Total Connected Load: 200VA
- **Fusing:**
  - 7800 Series: 15A maximum, type FRN or equivalent.
  - Total System: 20A maximum, type FRN or equivalent.
- **Dimensions:** 5" x 5" x 5-1/4" (relay module, amplifier, keyboard display module, purge timer, and panel type mounting subbase).

# Honeywell 7800 Series Burner and Boiler Controls

## RM7800 and RM7840 Programmings



The 7800 Series control family will provide a complete enhanced electronic burner and boiler product line to replace RA890 flameswitches and R4140, R4795, R7795, BC7000 and competitive controls.

**Required Components:**

- Q7800A or Q7800B Subbase
- ST7800 Purge Timer
- RM7847/48/49 Flame Amplifier

**Approval Bodies:**

- U.L.: File MP268 Guide MCC2
- CSA: LR9S329-3
- FM: J11V9AO.AF
- IRI: Acceptable
- FCC: Part 15, Class B
- CDC: CS-03, No. 5733459A

Device	Replacement For	Display	Dust Cover Optional Display	ESP	Modulation	Non-modulation	Preignition	Running	Lockout	Low Fire Interlocks	High Fire Interlocks	Selectable Prepurge Timing	4 or 10 sec. PFEP*	Airflow Check Option	Preignition Check in Post Purge	5 LEDs	Rectification	Infrared	Ultraviolet
RM7800L	BC7000/PM720L or R4140L	X			X		X	X		X	X	X	X	X	X	X	X	X	X
RM7840G	R4140G		X		X		X	X		X		X	X	X	X	X	X	X	X
RM7840L	R4140L		X		X		X		X	X	X	X	X	X	X	X	X	X	X
RM7840M	R4140M		X		X	X	X	X		X		X	X	X	X	X	X	X	X
RM7838A	R4138A,C	X	X		X		X				X	X	X			X	X	X	X

\*PFEP (Pilot Flame Establishing Period)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 PURCH
1	EA	74662	RM7838A 1014 BURNER CONTROL	—
1	EA	74664	RM7800L 1012 BURNER CONTROL	—
1	EA	74668	RM7840L 1018 BURNER CONTROL	—
1	EA	74675	RM7840M1017/U BURNER CONTROL	—
1	EA	74677	RM7840G 1014 BURNER CONTROL	—

# Honeywell 7800 Series Burner and Boiler Controls

Q7800 and ST7800, Subbases and Adaptor Plate for all 7800 Series Controls



**Q7800A, B Universal Wiring Subbase**



**Q7800 Panel Mount**



**ST7800A**

Device	Description	Mounting	Construction
Q7800A	Universal Wire Base for all 7800 Series Controls	Panel	Plastic
Q7800B	Universal Wire Base for all 7800 Series Controls	Burner/Wall	Metal
Q7800E*	Adapter Subbase for Fireye "E" Series Controls	—	—
Q7800F*	Adapter Subbase for RA890 and R4795	—	—

\*Special order items.

## Subbases and Adaptor Plate

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 PURCH
1	EA	74671	Q7800A1005/U SUBBASE	—
1	EA	74672	Q7800B 1003 SUBBASE	—

## Purge Timers

Timing	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 PURCH
30 Sec.	1	EA	74689	ST7800A1039/U 30 SEC PURGE TIMER	—
40 Sec.	1	EA	74690	ST7800A 1047 40 SEC PURGE TIMER	—
60 Sec.	1	EA	74691	ST7800A 1054 60 SEC PURGE TIMER	—
90 Sec.	1	EA	74692	ST7800A1002/U 90 SEC PURGE TIMER	—
7 Sec.	1	EA	74694	ST7800A 1013 7 SEC PURGE TIMER	—

Other models available, please ask your Berkheimer representative for details.

Available in the Chicago Area, the Gary Area, South Bend, and Fort Wayne.

# Honeywell 7800 Series Burner and Boiler Controls

## Plug-in Flame Signal Amplifiers



Plug-in Flame Signal Amplifiers				Applicable Flame Detectors			
Model No.	Description	Color	Self-Checking	Flame Failure Response Time	Use With	Type	Model No.
R7847A1025	Rectification	Green	No	.8 or 1 Sec.	Gas	Rectifying Flame Rod Holders <sup>c</sup>	C7004, C7007, C7011, C7008, C7009, Q179
					Oil	Photo Cell	
R7847A1033	Rectification	Green	No	2 or 3 Sec.	Gas	Rectifying Rod Holders <sup>c</sup>	C7004, C7007, C7011, C7008, C7009, Q179
					Oil	Photo Cell	
R7847Bb1031	Rectification	Green	Dynamic Amplicheck	2 or 3 Sec.	Gas	Rectifying Flame Rod Holders <sup>c</sup>	C7004, C7007, C7011, C7008, C7009, Q179
					Oil	Photo Cell	
R7847C1005	Rectification	Green	Dynamic Self-Check	2 or 3 Sec.	Gas, Oil, Coal	Ultraviolet (Purple Peeper)	C7012E, F
R7848A1008	Infrared	Red	No	2 or 3 Sec.	Gas, Oil, Coal	Infrared (Lead Sulfide)	C7015
R7849A1023	Ultraviolet	Purple	No	2 or 3 Sec.	Gas, Oil	Ultraviolet (Minipeeper)	C7027, C7035, C7044 <sup>a</sup>
R7849B <sup>b</sup> 1013	Ultraviolet	Purple	Dynamic Amplicheck	.8 or 1 Sec.	Gas, Oil	Ultraviolet (Minipeeper)	C7027, C7035, C7044 <sup>a</sup>
R7849B1021	Ultraviolet	Purple	Dynamic Amplicheck	2 or 3 Sec.	Gas or Oil	Ultraviolet (Minipeeper)	C7027, C7035, C7044 <sup>a</sup>

<sup>a</sup>R7849A, B and C7027, C7035, and C7044 Flame Detectors should be used only on burners that cycle on-off at least every 24 hours. Appliances with burners that remain on for 24 hours continuously or longer should use C7012E/F Flame Detector with R7847C Amplifier or C7076A, D Flame Detector with R7886A Amplifier as ultraviolet flame detection system.

<sup>b</sup>Circuitry tests flame signal amplifier at least 12 times a minute during burner operation and shuts down burner if amplifier fails.

<sup>c</sup>Order flame rod separately; see instructions for holder.

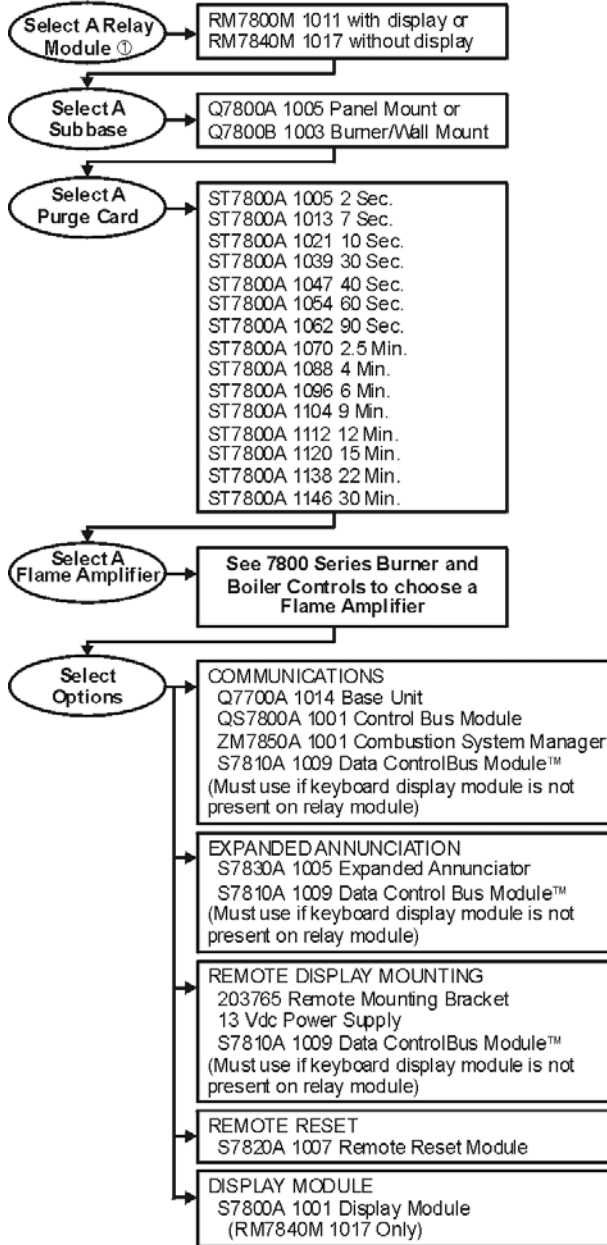
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 PURCH
1	EA	74673	R7847A 1025 AMPLIFIER	—
1	EA	74674	R7847A 1033 AMPLIFIER	—
1	EA	74676	R7847B 1031 AMPLIFIER	—
1	EA	74678	R7847C 1005 AMPLIFIER	—
1	EA	74679	R7848A 1008 AMPLIFIER	—
1	EA	74682	R7849B 1021 AMPLIFIER	—
1	EA	74683	R7849A 1023 AMPLIFIER	—
1	EA	74684	R7849B 1013 AMPLIFIER	—

Available in the Chicago Area, the Gary Area, South Bend, and Fort Wayne.

# Honeywell Burner Control Selection Flow Chart

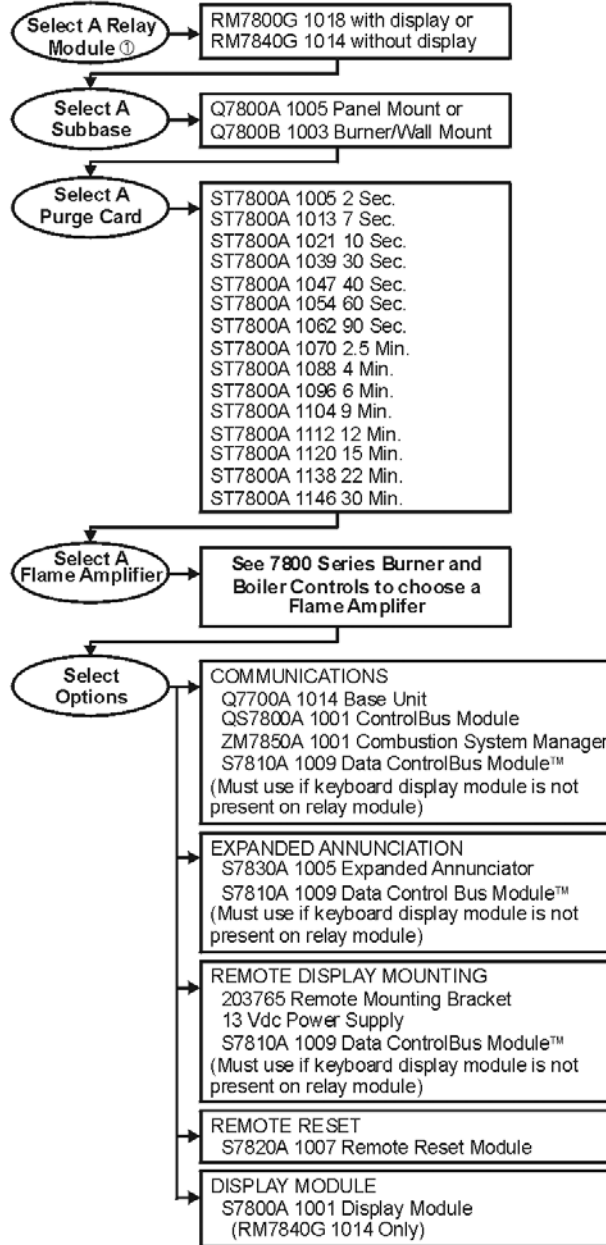
## On-Off Burner Control UL RM7800/7840 M

UL/CSA On-Off Burner Control



## Modulation Burner Control UL RM7800/7840 G

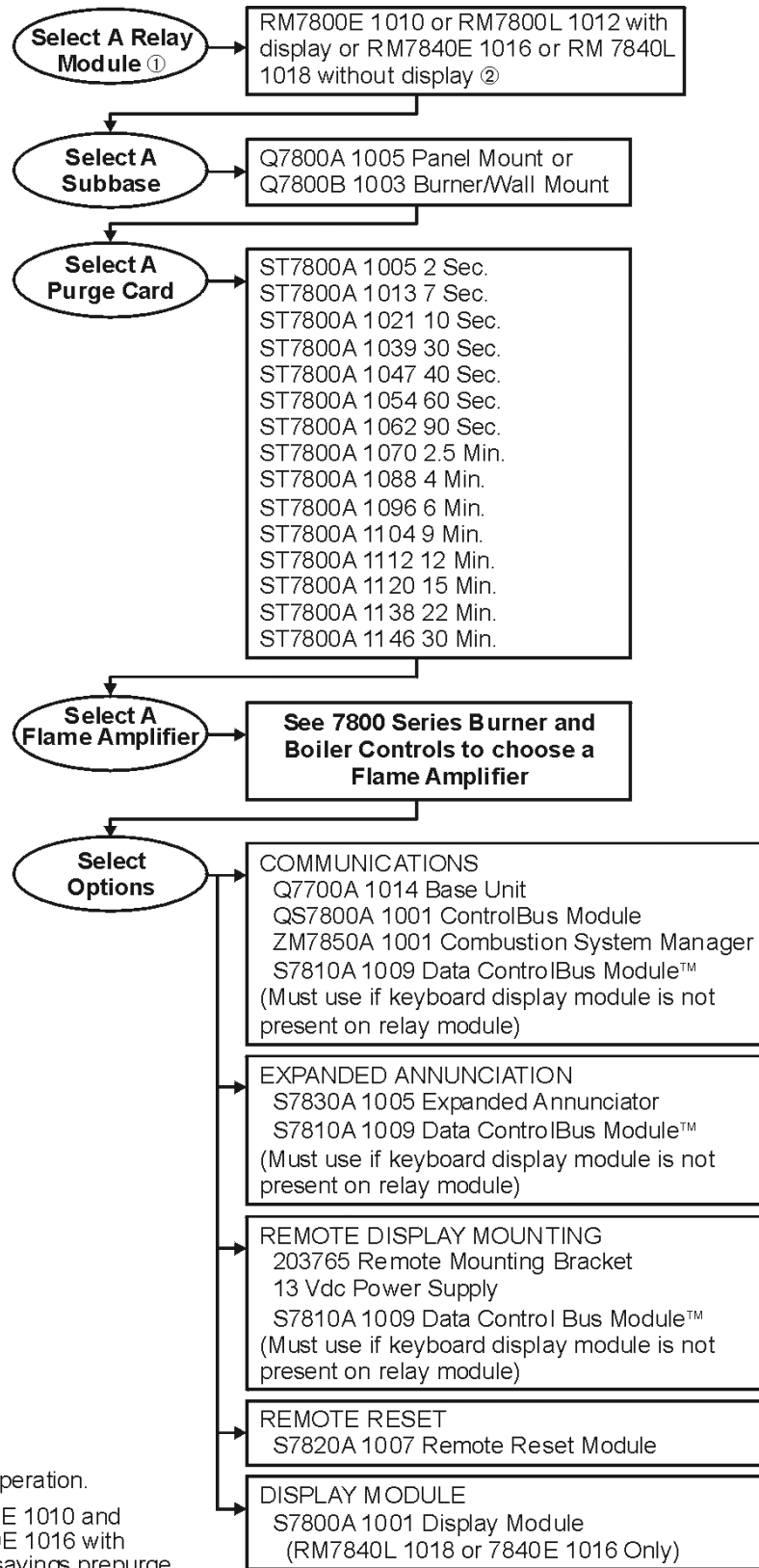
UL/CSA Modulation Burner Control



① 60 Hz Operation.

# Honeywell Modulation Burner Control

FM/IRI RM7800/7840 E or L



① 60 Hz Operation.  
 ② RM7800E 1010 and RM7840E 1016 with energy savings prepurge.

# Honeywell 7800 Series Communication Accessories

For Use with 7800 Series Burner and Boiler Controls  
**S7830, S7820, S7820, and S7810**



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 PURCH
1	EA	74686	S7810A 1009 DATA CONTROLBUS MODULE	—
1	EA	74687	S7820A1007/U REMOTE RESET	—
1	EA	74688	S7800A 1001 KEYBD DISPLAY MODULE	—

Available in the Chicago Area, the Gary Area, South Bend, and Fort Wayne

## Honeywell RM7895A, C Full Function Primary Control



Microprocessor-based integrated primary burner control for automatically fired gas, oil, coal, or combination fuel, single burner applications.

**RM7895A.** Intermittent primary relay module without AFSC, 60 Hz.  
**RM7895C.** Interrupted primary relay module without AFSC, 60 Hz.

Model No.	Replaces	Initiate	Standby	Purge	Flame Establishing Period		Airflow Switch Check (AFSC)	Delayed Main Valve
					Pilot	Main		
RM7859A	R7795A, B	10 Sec.	*	**	4 or 10 Sec.	No	No	No
RM7895C	R7795C, D	10 Sec.	*	**	4 or 10 Sec.	10 Sec.	No	Yes

\* Standby and Run can be an infinite time period.

\*\*Purge will be determined by which ST7800 Purge Timer is selected.

NOTE: To replace R7795A, C select R7849A Flame Signal Amplifier. To replace R7795B, D select R7847A Flame Signal Amplifier.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 PURCH
1	EA	74666	RM7895C 1012 BURNER CONTROL	—
1	EA	74667	RM7895A1014/U BURNER CONTROL	—



# Honeywell RM7890A, B Primary Controls

## Upgrade for RA890 Series Combustion Controls



Microprocessor-based integrated primary burner control for automatically fired, gas, oil, coal, or combination fuel burner applications.

**Dimensions:** 5" W x 5" H x 3-1/32" D.

**Options Available for the RM7890**

S7800 Keyboard Display Module

S7820 Remote Reset

Q7700 Based Communication

**Functional Enhancement for RA890**

**RM7890A:** Automatic primary control, 60 Hz., with 4 or 10 sec. PFEP, recycle or lockout on flame failure, 5 LEDs, dustcover.

**RM7890B:** Automatic primary control, 60 Hz., with 4 or 10 sec. PFEP, recycle or lockout on flame failure, shutter drive, 5 LEDs, dustcover.

**RA890 to RM7890A Cross-Reference**

Old Model No. RA890	New Model No. RM7890	Voltage	Safety Switch Timing Sec.	Flame Response	Alarm Control	Flame Sensor
RA890F 1270	RM7890A 1015	120	15	0.8	SPDT	Flame Rod, Rect. Cells, C7012, and U.V.
RA890F 1288	RM7890A 1015	120	15	3.0	SPDT	
RA890F 1346	RM7890A 1015	120	30	3.0	SPDT	
RA890F 1361	Step down to 120V*	240	30	3.0	SPDT	
RA890F 1387	Step down to 120V*	240	15	3.0	SPDT	
RA890G 1229	RM7890A 1015**	120	15	0.8	SPDT	Interrupted, C7027, C7035, C7044
RA890G 1260	RM7890A 1015**	120	15	3.0	SPDT	

\* For 240V RA890 must provide 120V to convert to RM7890A 1015.

\*\* For C7012E/F scanner use RM 7890B 1014.

**Use RM8990A 1015 to Replace the Following RA890 Models**

RA890E 1009	RA890E 1415	RA890E 1918	RA890F 1130	RA890F 1502
RA890E 1033	RA890E 1447	RA890E 1926	RA890F 1239	RA890F 1510
RA890E 1066	RA890E 1462	RA890E 1934	RA890F 1247	RA890F 1526
RA890E 1090	RA890E 1496	RA890E 1942	RA890F 1254	RA890F 1551
RA890E 1124	RA890E 1520	RA890F 1007	RA890F 1262	RA890F 1569
RA890E 1157	RA890E 1587	RA890F 1015	RA890F 1270	RA890F 1627
RA890E 1181	RA890E 1603	RA890F 1023	RA890F 1288	RA890F 1700
RA890E 1215	RA890E 1629	RA890F 1031	RA890F 1388	RA890F 1718
RA890E 1249	RA890E 1645	RA890F 1049	RA890F 1346	RA890H 1003
RA890E 1280	RA890E 1678	RA890F 1056	RA890F 1437	RA890H 1052
RA890E 1314	RA890E 1702	RA890F 1064	RA890F 1476	RA890K 1006
RA890E 1348	RA890E 1777	RA890F 1072	RA890F 1486	
RA890E 1389	RA890E 1827	RA890F 1122	RA890F 1494	

NOTE: When C7012E or F is used with RA890 use RM7890B 1014 rather than RM7890A 1015. 208/240 Vac R890s are not listed. Step down to 120 Vac and use RM7890A 1015.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 PURCH
1	EA	74669	RM7890A 1015 RELAY MODULE	—
1	EA	74670	RM7890B 1014 RELAY MODULE	—

Available in the Chicago Area, the Gary Area, South Bend, and Fort Wayne

# Honeywell Modutrol IV Cross Reference

Old Model No.	New Model No.
M445A 1000	M4185B 1009
M445A 1042	M4185B 1017
M445A 1067	M4185B 1025
M445D 1007	M4185A 1001
M644A 1016	M6184D 1035
M644A 1024	M6184A 1015
M644B 1049	M6184A 1023
M644C 1006	M6184D 1001
M644C 1014	M6194D 1017
M644D 1005	M6184F 1006
M644E 1012	M6194B 1003
M644E 1053	M6194E 1006
M734D 1004	M7364A 1007
M734D 1012	M7364A 1015
M734D 1038	M7364A 1023
M734H 1000	M7164G 1006
M734H 1018	M7164G 1014
M734H 1026	M7164G 1022
M734J 1015	M7164A 1009
M734J 1056	M7164A 1017
M734J 1072	M7164B 1007
M744A 1006	M7384A 1003
M744A 1014	M7384A 1011
M744D 1003	M7184A 1005
M744S 1005	M7284A 1004
M744S 1013	M7284A 1012
M744T 1004	M7284C 1000
M744T 1012	M7284C 1018
M744Y 1009	M7284Q 1009
M744Y 1017	M7284Q 1017
M745A 1003	M7385A 1002
M745A 1011	M7385A 1010
M745G 1007	M7186G 1000
M745L 1027	M7685A 1009
M745L 1043	M7685A 1017
M745P 1007	M7185A 1004
M745S 1002	M7285A 1003
M745S 1010	M7285A 1011
M745T 1001	M7285C 1009
M745T 1019	M7285C 1017
M745Y 1006	M7285Q 1008
M745Y 1014	M7285Q 1016
M845A 1001	M8185B 1000
M845A 1027	M4185B 1041
M845A 1035	M4185B 1058
M845C 1009	M8185A 1002
M845E 1007	M4186H 1005
M934A 1201	M9164A 1013
M934A 1219	M9164A 1021
M934A 1227	M9164D 1009
M934A 1235	M9164A 1047
M934A 1243	M9164C 1001
M934A 1250	M9164C 1019
M934A 1268	M9164C 1027
M934A 1284	M9164A 1096
M934A 1292	M9164C 1043
M934A 1318	M9164C 1035
M934A 1326	M9164A 1054
M934A 1334	M9164A 1062
M934A 1342	M9164A 1070
M934D 1000	M9174B 1001
M934D 1018	M9174C 1009
M934D 1026	M9174B 1019
M934D 1034	M9174C 1017
M941A 1008	M9484D 1002
M941A 1016	M9484D 1010
M941A 1024	M9494D 1000
M941A 1032	M9484D 1028

Configure Tradeline Model as Described	Set Stroke to (degrees)	Add Internal Transformer	Add Aux. Switches	Comments
M8185D 1006	160	120V	1	
M8185D 1006	160	208/240V	1	
M8185D 1006	160	220V	1	
M8185D 1006	160	120V		
M6184D 1035	160			
M6184D 1035	90			
M6184D 1035	160	120V		Replaced motor is 15/30 seconds.
M6184D 1035				
M6194D 1017	160			
M6184D 1035			2	
M6194D 1007	90		1	
M6194D 1007				
M9164D 1009	160	120V		Add Q7330A.
M9164D 1009	90	120V		Add Q7330A.
M9164D 1009	160			Add Q7330A.
M9164D 1009	90	120V		Add Q7130A set at 10.5-13.5 Vdc.
M9164D 1009	90	120V		Add Q7130A set at 4-7 Vdc.
M9164D 1009	160			Add Q7130A set at 4-7 Vdc.
M9164D 1009	160			Add Q7130A set at 4-7 Vdc.
M9164D 1009	90			Add Q7130A set at 10.5-13.5 Vdc.
M9164D 1009	160	120V	1	Add Q7130A set at 6-9 Vdc.
M9184D 1013a	160	120V		Add Q7330A.
M9184D 1013a	90	120V		Add Q7330A.
M9184D 1013a	160	120V		Add Q7130A set at 4-7 Vdc.
M9184D 1013a	90	120V		Add Q7230A set at 4-20 mA.
M9184D 1013a	160	120V		Add Q7230A set at 4-20 mA.
M9184D 1013a	90	120V	2	Add Q7230A set at 4-20 mA.
M9184D 1013a	160	120V	2	Add Q7230A set at 4-20 mA.
M9184D 1013a	90	120V	2	Add Q7230A set to desired range.
M9184D 1013a	160	120V	2	Add Q7230A set to desired range.
M9185D 1004	90			Add Q7330A.
M9185D 1004	160			Add Q7330A.
M9185D 1004	160			Add Q7130A set at 4-7 Vdc.
M9185D 1004	160			Add Q7630A.
M9185D 1004	90			Add Q7630A.
M9185D 1004	160			Add Q7130A set at 4-7 Vdc.
M9185D 1004	90	120V		Add Q7230A set at 4-20 mA.
M9185D 1004	160	120V	2	Add Q7230A set at 4-20 mA.
M9185D 1004	90	120V	2	Add Q7230A set at 4-20 mA.
M9185D 1004	90	120V	2	Add Q7230A set to desired range.
M9185D 1004	160	120V	2	Add Q7230A set to desired range.
M8185D 1006	160		1	
M8185D 1006	160	120/208/240V	1	
M8185D 1006	90	120/208/240V	1	
M8185D 1006	160			
M8185D 1006	160	120V	1	Replaced model is N.O.b
M9164D 1009	160	120/208/240V		
M9164D 1009	160	120V		
M9164D 1009	160			
M9164D 1009	160	220V		
M9164D 1009	160		2	
M9164D 1009	160	120V	2	
M9164D 1009	160	120/208/240V	2	
M9164D 1009	160	120V		
M9164D 1009	160	120V	2	
M9164D 1009	90	120V	2	
M9164D 1009	90			
M9164D 1009	160			
M9174D 1007	160	120V	1	
M9174D 1007	160	120V	2	
M9174D 1007	90	120V	1	
M9174D 1007	90	120V	2	
M9184D 1013a				Replaced motor is 15/30 seconds.
M9184D 1013a				
M9194D 1003				
M9184D 1013a				

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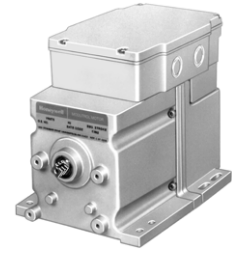
Old Model No.	New Model No.	Or	Configure Tradeline Model as Described	Set Stroke to (degrees)	Add Internal Transformer	Add Aux. Switches	Comments
M941A 1057	M9484D 1036		M9184D 1013a				Replaced motor is 15/30 seconds.
M941C 1006	M9484E 1009		M9184D 1021a			1	Replaced motor is 15/30 seconds.
M941C 1014	M9484E 1017		M9184D 1013a			1	
M941C 1022	M9484E 1025		M9184D 1013a			1	
M941C 1030	M9484E 1033		M9184D 1013a			1	
M941C 1063	M9484E 1058		M9184D 1021a			1	
M941D 1005	M9484F 1007		M9184D 1013a			2	
M941D 1021	M9484F 1023		M9184D 1021a			2	Replaced motor is 15/30 seconds.
M941D 1039	M9484F 1031		M9184D 1021a			2	
M941D 1047	M9484F 1049		M9184D 1013a			2	
M944A 1010	M9184A 1019		M9184D 1013a	160			
M944A 1028	M9184A 1027		M9184D 1013a	90			
M944B 1175	M6284D 1000		M6284D 1000	160			
M944B 1191	M6294D 1008		M6294D 1008	160			
M944B 1241	M6294B 1002		M6294D 1008	160		1	
M944C 1000	M9184D 1005		M9184D 1013a				Replaced motor is 15/30 seconds.
M944C 1018	M9194D 1003		M9194D 1003				
M944C 1042	M9184D 1013		M9184D 1013a				
M944C 1059	M9194E 1000		M9194D 1003			1	
M944D 1017	M9184F 1000		M9184D 1013a			2	
M944E 1040	M6284F 1013		M6284D 1000			2	
M944G 1089	M6284A 1014		M6284D 1000	160	120V		
M944G 1097	M6284A 1022		M6284D 1000	90	120V		
M944S 1027	M6284F 1021		M6284D 1000		120V	2	
M945A 1017	M9185A 1018		M9185D 1004	160			
M945A 1082	M9185A 1026		M9185D 1004	90			
M945A 1157	M9185D 1004		M9185D 1004				
M945B 1057	M6285A 1005		M6285A 1005				
M945B 1065	M6285A 1013		M6285A 1013				
M945C 1015	M6285C 1001		M6285A 1005			2	
M945D 1006	M9185C 1006		M9185D 1004	160		2	
M945F 1004	M9186G 1006		M9185D 1004	160			Replaced motor is N.O.b
M945G 1037	M6286G 1001		M6285A 1013				Replaced motor is N.O.b
M954A 1035	M9184D 1021		M9184D 1021a				
M954B 1034	M9184C 1007		M9184D 1021a	90		2	
M954D 1016	M9184F 1018		M9184D 1021			2	
M955A 1024	M9185D 1004		M9185D 1004				
M955C 1014	M9185E 1001		M9185D 1004			1	
M975A 1097	M9175D 1006		M9175D 1014		120V		

<sup>a</sup>The M9184D 1013 and M9184D 1021 have the same features and functions except the M9184D 1021 has tapped shaft for Flame Safeguard applications.

<sup>b</sup>Replaced motor is normally open, can use auxiliary end of Tradeline motor. <sup>c</sup>Add Part No. 220736A or B Auxiliary Switch Kit to Tradeline motors as appropriate.

# Honeywell Modutrol IV Family of Motors

Replaces Old Honeywell Modutrol I, II, and III



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	70997	M6184D 1035 MOD MOTOR	—
1	EA	71002	M6284D 1000-S MOD MOTOR	—
1	EA	71003	M6285A 1005-S MOD MOTOR	—
1	EA	71004	M7284A 1012 MOD MOTOR	—
1	EA	71006	M8185D 1006 MOD MOTOR	—
1	EA	71010	M9164D1009/U MOD MOTOR	—
1	EA	71013	M9174D1007/U MOD MOTOR	—
1	EA	71017	M9184D1021/U MOD MOTOR	—
1	EA	71020	M9185D1004/U MOD MOTOR	—
1	EA	71023	M9194D 1003 MOD MOTOR	—
1	EA	71028	M9484F 1031 MOD MOTOR	—

# Honeywell Q7130A and Q7230A Interface Modules

For Converting Series 90 Modutrol IV Motors to Series 70 Control



Model No.	Provides Interface
Q7130A 1006	For selectable voltage range: 4 to 7, 6 to 9, or 10.5 to 13.5 Vdc.
Q7230A 1005	For adjustable zero and span, voltage, or current control (includes 4 to 20 mA and 2 to 10 V).

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	70995	Q7130A 1006 MOTOR INTERFACE MODULE	—
1	EA	70996	Q7230A1005/U MOTOR INTERFACE MODULE	—

# Honeywell Transformers

Convert Modutrol IV Motors from Low Voltage to Line Voltage



Primary Voltage	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
120	1	EA	74637	198162EA TRANSFORMER	—
120/208/240	1	EA	74638	198162AA TRANSFORMER	—
120	1	EA	74659	50017460-003 120V TRANSFORMER	—
24/120/230	1	EA	74660	50017460-001 MULTI-TAP TRANSFORMER	—

## Honeywell 220736A, B Internal Auxiliary Switch Kits

### Control Auxiliary Equipment as a Function of Motor Shaft Position



Can be installed in any Tradeline Modutrol IV motor. Kits include one or two microswitch V3 precision switches which are actuated by adjustable cams inside the motor. Switch adjustment procedures are the same as for factory-installed switches in certain motor models. Selectable switch differentials of one degree or ten degrees of rotation.

#### Electrical Ratings (Amperes)

One Contact*	120 Vac	240 Vac
Full Load	7.2	3.6
Locked Rotor	43.2	21.6

\* Pilot Duty: 40 VA at 120/240 Vac on opposite contact

Switches	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1 SPDT	1	EA	74644	220736A AUXILIARY SWITCH KIT	—
2 SPDT	1	EA	74647	220736B AUXILIARY SWITCH KIT	—

## Honeywell 221455A Crankarm Assembly for All Modutrol IV Motors

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	74649	221455A/U CRANKARM ASSEMBLY	—

## Honeywell M7415A Motor



M7415A 25 lb.-in. spring-return actuators provide SPDT floating, 2-position, 3-position, or modulating control of economizer systems, ventilation dampers, and combustion air dampers used in residential or commercial HVAC equipment. These are synchronous motors. A spring returns the motor shaft to normal position on power interruption. A single-ended drive shaft with crank arm is supplied.

### M7415A

Use with mixed-air or discharge sensor.

#### Approximate Dimensions:

4-1/2" H x 5" W x 5-3/16" D.

**Ambient Temp. Range:** -25 to 125° F at 25% duty cycle.

**Electrical Rating:** 24 Vac, 50/60 Hz.

**Max. Operating Torque:** 25 lb.-in.

**Timing:** 90 seconds.

**Stroke:** Fixed 90 degree; opens counterclockwise as viewed from power end.

### C7150B Sensor

Use with the W973 Single Zone System and the M7415A motor to sense mixed or discharge air in rooftop packaged air conditioning equipment. Requires no setting or calibration. Mounts on duct surface with four screws (not supplied).

#### Approximate Dimensions:

2-3/8" W x 1-1/2" H x 2-1/4" D.

**Maximum Ambient Temperature:** 250° F

**Electrical Connection:** 1/4" quick-connect terminals.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	71160	M7415A1006/U MOTOR	—
10	EA	70303	C7150B1004/U SENSOR	—

# Honeywell M835A Two-Position Zone Motor



These motors are used with two-wire, 24 volt room thermostats or other controllers for two-position damper control. They are suitable for use with control zone or changeover dampers in heating and air conditioning systems and with control gates on feeders. For remote damper blade control order separately 121825AA Crank Arm and Q298 Linkage Assembly.

Thermostat Anticipator Setting	Max. No. of M835 Motors per AT72D Transformer*	
	Heating Only	Heating Cooling
0.18 A	4	3**

\* If more motors are required, use additional AT72D or AT88A Transformers for adequate power.

\*\* Plus R8225A Relay.

**Electrical Rating:** 24 V, 60 Hz.

**Auxiliary Switch Rating:** 2 A at 24 Vac (pilot duty).

**Motor Timing:** 80 sec. to open, 160 sec. to close damper.

**End Switch:** SPST; makes within 20 sec. of full open, breaks within 20 sec. after start of closing stroke.

**Motor Torque:** 4 lb.-in. or 400 sq. in. of bearing-mounted damper.

**NOTE:** A template to assist positioning motor and damper blade is furnished with each M835. Use of 124857A mounting plate is recommended.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	70961	M835A1051/U MOTOR	—

# Honeywell M836A, B Damper Motors



Spring-return motors for two-position zone or outdoor air damper control. Used in residential and light industrial applications to operate outdoor air dampers for combustion or makeup air. Operate changeover dampers for heating and cooling systems, minimum position dampers for ventilation and similar applications. With internal SPDT switch for controlling auxiliary equipment, additional motors, or to provide a burner interlock switch. Spring returns motor to start position on power failure. Drive shafts located on both sides of motor.

## Electrical Ratings (Amperes)

	120 Vac	240 Vac
Full Load	7.2	3.6
Locked Rotor	43.2	21.6

Pilot Duty: 40 VA at 120 or 240 Vac.

**Power Consumption:** (M836A) 27 W opening, 8.5 W holding; (M836B) 20 W opening, 11.2 holding.

**Ambient Temperature Range:** 32 to 125° F.

**Approximate Dimensions:** 4-1/2" H x 4-5/8" W x 3-3/4" D. U.L. Listed.

## Tradeline Models

Model No.	Voltage (60Hz.)	Nominal Opening Current (A)	Nominal Opening Time (Sec.)	Max. Load Torque (lb.-in.)	Breakaway* Torque (lb.-in.)	Damper Blade Area (sq. ft.)
M836A 1042	24	1.85	30	20	30	13
M836B 1033	24	1.34	25	15	30	10

\* Maximum torque available to overcome large loads such as a seized damper or valve. Must not be used continuously at this rating.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	70965	M836A1042/U MOTOR	—
5	EA	70967	M836B 1033 MOTOR	—

## Honeywell PA404A, B Pressuretrol Controllers

### Provide Control for Steam Pressure



Used in 24, 120, and 240V control circuits or in self-powered millivoltage applications. SPST snap-acting microswitch. Sensitive pressure-actuated diaphragm expands or contracts with pressure variations, moving a lever mechanism that operates the snap-switch.

#### Electrical Ratings (Amperes)

	120 Vac	240 Vac	277 Vac
Full Load	8.0	5.1	—
Locked Rotor	48.0	30.6	—
Resistive	8.3	8.3	7.2
Millivoltage	0.25 at 1/4 to 12 Vdc		

**Pressure Sensing Element:** Stainless steel diaphragm.  
**Maximum Operating Pressure:** 20 PSI.  
**Maximum Ambient Temperature:** 150° F.  
**Mounting Means:** 1/4" female pipe threads.  
**Case Dimensions:** 4-15/32" H x 3-3/8" W x 2-1/4" D.  
 U.L. Listed.

Model No.	Application	Operating Range (Adjustable)		Subtractive Differential (Adjustable)		Switch Action
		psi	kPa	psi	kPa	
PA404A 1033	Safety control for steam heating boilers; breaks an electrical circuit to shut down burner if steam pressure rises above a safe level.	.5 to 9	3 to 62	1 to 5	7 to 35	Makes at set point on pressure fall; breaks at set point plus differential on pressure rise.
PA404B 1023	Used with suspension type unit heaters to make the fan circuit when a pressure rise indicates the presence of steam.	.5 to 9	3 to 62	1 to 5	7 to 35	Breaks at set point on pressure fall; makes at set point plus differential on pressure rise.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	71201	PA404A1033/U PRESSURETROL	—
12	EA	71206	PA404B 1023 PRESSURETROL	—

## Honeywell Q181 Auxiliary Potentiometer



Compatible with Modutrol IV motors. Mounts on master motor and operates controlled motors in unison or in sequence. Controls motors with mechanical balance relay and solid state drive circuit. Used with 24 V motors. Cover included.

**Throttling Range:** Adjustable, 40° F to 160° F on each 135 ohm potentiometer  
**Approximate Dimensions:** 3-3/16" H x 3-1/4" W x 3-3/8" D.  
**Accessory:** 7640JK Adapter Plate for mounting Q181 on early motors without bosses on gear end for mounting over an external return spring.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	71274	Q181A 1007 POTENTIOMETER	—

## Honeywell Q209E, F Manual Potentiometers



Used to limit minimum positions of a proportioning Modutrol motor. Mount directly in motor; all wiring is accomplished within motor wiring compartment. Color-coded leadwires.

**Applications:** External mount onto Modutrol IV motors.

**Resistance:** 150 ohms.

**Approximate Case Dimensions:** 3-1/4" H x 3-3/8" W x 3-7/8" D.

**Includes:** Quick connect terminals with leadwires.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	71293	Q209E 1002 POTENTIOMETER	—

## Honeywell Q5001D Valve Linkage

Used to Connect a Modutrol Motor to a 2- or 3-Way Valve



For use on Honeywell V5011 and V5013 water and steam valves having a fixed 3/4" lift and 1-3/8" bonnet. Requires no adjustment.

**Approximate Dimensions:** 10-1/4" to 10-1/2" H x 5-3/4" W x 8-13/64" D.

**Seal-Off Force on Valve Stem:** 80 Lbs. (356 N).

**Use with Motors:** M4185, M7064, M7164, M7285, M7385, M8185, M9164, M9174, M9185, M9186

Note: Motor will add up to 2-1/8" to depth.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
2	EA	71695	Q5001D 1000 LINKAGE ASSEMBLY	—

## Honeywell Q605A, D Damper Linkages



Connect Modutrol motor to standard damper or set of dampers to provide control of duct airflow. Linkages include ball joints, motor crank arm, and damper arm for 1/2" diameter shaft. Adjustable to any degree of damper opening.

Model No.	Application	Includes			
		Motor Mounting Bracket	Damper Arm for 1/2" Dia. Shaft.	Motor Crank Arm	Ball Joints
Q605A 1070*	For mounting motor externally on duct.	Yes	1	Yes	2
Q605D 1069**‡	For mounting motor externally or internally on duct.	Yes	3	Yes	4

\* Tradeline Model.

\*\* Super Tradeline Model.

‡With left hand drive ear and crank arm adapter assembly.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	71744	Q605A 1070 DAMPER LINK	—
4	EA	71749	Q605D 1069 DAMPER LINK	—

## Honeywell Q651A Switching Subbase

Provides Manual System Switching for T6051 Thermostats



This subbase provides positive OFF switching for the system. It may be mounted vertically or horizontally on a standard outlet box. Includes pressure sensitive labels to identify switching positions (HEAT-OFF-COOL, AUTO-OFF-ON, HEAT-OFF-FAN). U.L. Listed.

**Approx. Overall Dimensions:** 5-13/16" H x 3-3/16" W x 11/16" D. Q651 with T6051A

**Voltage and Frequency:**

120 or 240 Vac, 60 Hz.

**Pilot Duty:** 125 VA

**Contact Ratings (amperes):**

Full Load: 16 at 120 Vac; 8 at 240 Vac.

Locked Rotor: 96 at 120 Vac; 48 at 240 Vac.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	71588	Q651A 1009 SUBBASE	—



# Honeywell R8182D, J Combination Controllers

## Protectorelay and Hydronic Heating



Immersion type aquastat controller and oil burner primary control provides high limit and low limit/circulator control for oil-fired hydronic heating systems. For intermittent ignition applications. Requires a C554A Cadmium Sulfide Flame Detector and a 24V thermostat.

Model No.	Switching	Adj. Control Range (°F)	Differential (°F)
R8182D*	High Limit, SPDT	130 to 240	10 Fixed
	Low Limit/Circulator, SPDT	110 to 220	10 to 25 Adj.
R8182J* Remote Bulb	High Limit, SPDT	180 to 240	15 Fixed

**Maximum Ambient Temperature:** 250° F at element  
**Thermostat Anticipator Setting:** 0.2 amp  
**Approximate Dimensions:** 7-1/8" H x 5-1/4" W x 3-7/16" D  
**Voltage and Frequency:** 120V, 60 Hz  
 U.L. Listed

\* Auxiliary Zc and Zr terminals may be used to provide circulator zone control through an R845A Switching Relay.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	EA	72503	R8182D 1079 PROTECTORELAY	—
5	EA	72504	R8182J 1042 PROTECTORELAY	—

# Honeywell R8184G Protectorelay Oil Burner Controls



R8184G provides automatic, nonrecycling control of an intermittent ignition oil burner system. Requires a C554A Cadmium Sulfide Flame Detector and a 24V thermostat. Controls oil burner, oil valve, and the ignition transformer in response to a call for heat. Solid state flame sensing circuit. External button to manually reset safety switch after safety shutdown. Mounts on standard 4" x 4" junction box.

### Electrical Ratings (Amperes)

	120 Vac	240 Vac
Full Load	7.4	3.7
Locked Rotor	44.4	22.2

**Ambient Temperature Range:** -40 to 130° F.  
**Approximate Dimensions:** 4-3/8" H x 4-1/8" W x 2-1/2" D.  
**Voltage and Frequency:** 120V, 60 Hz.  
 U.L. Component Recognized.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
20	EA	72506	R8184G4009/U OIL PROTECTORELAY	—

## Honeywell RA116A and RA117A Protectorelay Controls



Stack-mounted, oil burner primary controls that cycle burner on and shutdown the burner on flame loss or system malfunction. Senses temperature change of flue gases with Pyrostat flame detector. Manual reset of safety switch required after ignition failure completely shuts off main burner. Includes a manual trip safety switch to assure burner shutdown during servicing. Flange included for mounting on curved or flat surfaces.

### Electrical Ratings

Motor Load (A)	110V, 50 Hz. 120V, 60 Hz.	220V, 50 Hz. 240V, 60 Hz.
Full Load	7.4	3.7
Locked Rotor	44.4	22.2

**Voltage and Frequency:** 120 V, 60 Hz.

**Safety Switch Timing:** 70 second, approximately.

**Thermostat Anticipator Setting (24 V models):** 0.4A.

**Adjustable Element Insertion Length:** 3-1/2" to 5-1/2".

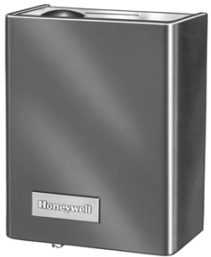
**Approximate Dimensions:** 5-7/8" H x 5-3/16" W x 3-3/16" D.

**Maximum Ambient Temperature:** 104° F.

U.L. Listed.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	74955	RA116A 1055 PROTECTORELAY	—	—
10	EA	74956	RA117A1047/U PROTECTORELAY	—	—

## Honeywell RA89A, RA832A Hydronic Switching Relays



Provide intermediate switching of a line voltage device from a low voltage controller. Integral transformer provides low voltage power for control circuit.

### Approximate Dimensions:

5-1/4" H x 4-1/4" W x 2-5/16" D.

**Maximum Input:** 5.0 W.

**Maximum Ambient Temperature:**

115° F for 60 Hz.; 105° F for 50 Hz.

U.L. Listed.

### Electrical Ratings (Amperes)

	RA89A		RA832A*, ‡	
	120 Vac	240 Vac	120 Vac	240 Vac
Full Load	10.2	5.1	7.4	3.7
Locked Rotor	61.2	30.6	44.4	22.2
Resistive	10.0	6.0	10.0	6.0

\* Includes auxiliary contacts for switching additional low or millivoltage (Power-pile) loads. Millivolt Rating: 300mA min. at 750mV. Low Voltage Rating: (Pilot Duty) 50 VA at 24 V; (DC rating) 1 A at 12 Vdc. ‡ Maximum connected load: 2000 VA.

### Tradeline Models

Model No.	Application	Voltage (50/60 Hz.)	Switch Action	Control Circuit	Coil Voltage	Relay Coil Current (A)
RA89A 1074	For switching one line voltage load.	120	SPST	2-wire	24	0.40
RA832A 1066	For switching two line voltage loads having a common power source.	120	DPST: one pole line voltage, the other low voltage or millivoltage.	2-wire	24	0.40

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	72527	RA89A1074/U RELAY	—	—
10	EA	72583	RA832A1066/U RELAY	—	—

## Honeywell S483B Winter Watchman



Used as a freeze warning device. Completes circuit to household lamp on temperature fall, indicating inoperative heating equipment. Plugs directly into wall outlet. Lamp plugs into receptacle at bottom of Winter Watchman device. Useful when house is unoccupied to notify a neighbor of a temperature drop so heating source fault can be rectified before freeze-up occurs.

**Maximum Load:** 120 watt for incandescent lamp load only. Not precision calibrated for use as a thermostat.

**Temperature Range:** 30 to 60° F adjustable. U.L. Listed.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
20	EA	72684	S483B1002/U WINTER WATCHMAN	—

## Honeywell S637A Sail Switch



Responds to the air velocity in heating or warm air ducts. Microswitch snap-acting switch operated by aluminum sail inserted in air stream; makes a circuit and breaks another on increase in air velocity in forced air duct. Suitable for farm crop dryers.

### Electrical Ratings (Amperes)

	120 Vac	240 Vac
Full Load	8.0	5.1
Locked Rotor	48.0	30.6

2.0 A at 24 Vac; 15.0 A at 6 Vdc; 7.5 A at 12 Vdc.

**Insertion Length:** 3-1/2".

**Maximum Ambient Temperature:** 150° F.

**Approximate Case Dimensions:** 2-15/16" H x 3-3/4" W x 2" D.

**Switching:** SPST.

**Operating Velocity (velocity at which contacts make):** 1900-2250 fpm.

**Sail Dimensions:** 1" x 3".

U.L. Listed.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
20	EA	72700	S637A 1004 SAIL SWITCH	—

## Honeywell S688A Sail Switch



Used in forced air systems to activate electronic air cleaners, humidifiers, or other auxiliary equipment in response to airflow from system fan. May be used in electric systems to prove minimum airflow. Allows auxiliary equipment to be wired independently of blower motor. Consists of polyester film sail mounted on an SPDT, microswitch snap-acting switch. Senses vertical or horizontal airflow with appropriate selection of bias spring.

### Electrical Ratings (Amperes)

	N.O. Contacts*			N.C. Contacts*		
	24 Vac	120 Vac	240 Vac	24 Vac	120 Vac	240 Vac
Full Load	2.0	2.0	1.0	1.0	1.0	0.5
Locked Rotor	12.0	12.0	6.0	6.0	6.0	3.0
Resistive	5.0	5.0	2.5	2.5	2.5	2.5

\* Pilot Duty Ratings.

**Sail Dimensions:** (Insertion length) 10"; (Maximum width) 5"; (Area) 26.2 sq. in.

**Approximate Case Dimensions:**

2-5/16" H x 3-3/4" W x 2-1/8" D.

**N.O. Contact:** Make at 250 fpm, break at 75 fpm.

**N.C. Contact:** Make at 75 fpm break at 250 fpm.

U.L. Listed.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	72714	S688A1007/U AIRFLOW SWITCH	—	—

## Honeywell S963B Manual Potentiometer



For remote set point control of electronic (Series 70) motors and panels. Provides control point adjustment for electronic panels such as W927 and W7100. For vertical mounting 2 x 4" outlet box (switch must be at least 1-3/4" deep). Item features scale marked Open-Close, three terminal wiring panel, leadwire connections, and is used on proportional motors..

**Potentiometer Resistance (ohms):** 135

**Temperature Range (F):** Open/Closed

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
20	EA	72725	S963B 1128 POTENTIOMETER	—

## Honeywell ST6008A, B Energy Management Timers



Timers provides 24-hour or 7-day time-based switching with universal application and 24-hour or 7-day programming. Features include battery back (quartz drive), screw wiring terminals, three-way override, and surface or DIN rail mounting.

**Dimensions:** 4-1/4" H x 2-15/16" W x 2-1/4" D

Model No.	Relay Output Stages	Timing, ON-OFF, Minimum	Electrical Ratings, Input Voltage	HP	Contact Ratings	
					FLA	LRA
ST6008A 1006	1 SPDT	15 min	120V, 60Hz	1	16	96
ST6008B 1005	1 SPDT	2 hrs	120V, 50Hz	1	16	96

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	72712	ST6008A 1006 24-HOUR TIMER	—
1	EA	72741	ST6008B 1005 7 DAY TIMER	—

## Honeywell ST71A Timer

Plug-in purge timer, 30 sec., used with R4795 relay.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	72755	ST71A 1018 TIMER 30 SEC	—

# Honeywell T5086A and B Thermostatic Radiator Valves



T5086A 1009



T5086B 1007

Thermostatic radiator valves control room temperature by modulating the flow of hot water or steam through free-standing radiators, convectors, or baseboard units. T5086 nonelectric thermostatic actuator mounts directly on V5086 valve body and modulates hot water or steam flow through valve in response to room temperature changes. V5086 valve body mounts on radiator or convector.

**T5086A** includes integral sensor and set point.

**T5086B** includes remote sensor and set point and 6 ft 6 in. capillary.

**Maximum Static Pressure:** Water 150 psig.

**Maximum Fluid Temperature:** 248° F.

**Maximum Close-Off Pressure:** Water 17 psi; Steam 15 psi

**Maximum Differential Pressure:** Quiet Water Service 17 psi.

**Body Tapping:** NPT.

## Thermostatic Radiator Valves (Tradeline Models)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	73170	T5086A 1009 THERMOSTATIC VALVE	—
1	EA	73172	T5086B 1007 THERMOSTATIC VALVE	—

## Valve Body

Pipe Size (In.)	Body Style	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
3/4	Angle	12	EA	73778	V5086A 1056 VALVE BODY	—

# Honeywell V4055A, D On-Off Fluid Power Gas Valve Actuators

## Used with V5055 Valve to Control Gas Supply to Commercial and Industrial Burners



Rated for final safety shutoff service when used with V5055 valve. Indicators on valve and actuator provide constant visual indication of valve position. Valve and actuator can be mounted in any position. Actuator mounts directly to valve bonnet with 3 setscrews.

**Ambient Temperature Rating:** -40 to +150° F for 60 Hz models; -10 to 158° F for 50 or 50/60 Hz. models.

**Closing Time:** 1 second maximum.

**NOTE:** Pressure ratings and approvals for these actuators depend on the valve used.

Use with Honeywell V4055, V4062, and V9055. Q5055 adapts ITT General V710 gas valves to accept Honeywell gas valve actuators as replacements for ITT General AH2, AH4, or AH8 gas valve actuators. Includes 198547A adapter and 220376 collar.

Model No.	Description/ Application	Voltage (60 Hz)*	Opening Time (sec)*	Includes
V4055A 1031	ON-OFF Actuator. Normally used with V5055A, B valve bodies. Low pressure.	120	13	—
V4055A 1064		120	26	Damper shaft
V4055A 1098		120	13	Damper shaft
V4055D 1019	ON-OFF actuator includes factory mutual "Proof of Closure" and Underwriters Laboratories Inc. "Valve Seal-Overtravel Interlock" Switch. Meets Factory Mutual and Underwriters Laboratories Inc. requirements when used with V5055C valve bodies. Low pressure.	120	13	Damper shaft
V4055A 1001		120	26	Damper shaft

\* Can also be used at 50 Hz., however, opening time will increase by 20%.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
2	EA	73632	V4055A 1031 ACTUATOR	—
2	EA	73634	V4055A 1064 ACTUATOR	—
2	EA	73635	V4055A 1098 ACTUATOR	—
2	EA	73633	V4055D1019/U ACTUATOR	—
2	EA	73636	V4055D 1001 ACTUATOR	—

# Honeywell V5011F, G Single-Seated Valves

Used for 2-position or modulating control of steam and water in heating or cooling systems. Operating motor and linkage must be ordered separately.

**Body Pattern:** Straight through.

**Body Material:** Bronze.



New Model No.	Old Model No.	Description	Body Size NPT	Flow Capacity		Pipe Conn.	Lift Inches
				Cv	kv		
V5011N 1057	V5011F 1055	A 2-way threaded globe valve that controls steam, water, and glycol solutions (up to 50% concentration.) Equal % flow for modulating water.	3/4	7.3	6.26	Screw*	3/4
V5011N 1099	V5001F 1097	A 2-way threaded globe valve that controls steam, water, and glycol solutions (up to 50% concentration.) Equal % flow for modulating water.	3/4	46.8	40.11		
V5011N 2055	V5011G 1061	A 2-way threaded globe valve that controls steam, water, and glycol solutions (up to 50% concentration.) Throttling plug provides linear flow characteristics for steam.	3/4	7.3	6.26		
V5013N 1063	V5013F 1038	A 3-way threaded globe valve that controls hot water, cold water and glycol solutions (up to 50% concentration.)	1	11.7	10.03		
V5013N 1071	V5013F 1046		1-1/4	18.7	16.03		

\* Valve Seat: Brass, removable. † Metal-to-metal seating for high pressure applications. Max. pressure differential: 100 psi. Not recommended for water.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	73686	V5011N 2055 VALVE BODY	—
1	EA	73687	V5011N 1057 VALVE, 2 WAY GLOBE	—
1	EA	73688	V5011N 1099 VALVE BODY 2 WAY GLOBE	—
1	EA	73695	V5013N 1071 MIXING VALVE	—
1	EA	73696	V5013N 1063 MIXING VALVE	—

## Honeywell V5055B, C Industrial Gas Valves



Safety shutoff valves used with V4055, V4062, and V9055 fluid power actuators to control gas flow to commercial and industrial burners. Use with natural or LP gases.

**Application:** V5055B models, low pressure characterized guide provides slowly increasing gas flow on opening. V5055C models, low pressure, double seat (use with actuators having valve seal over travel interlock).

**Mounting Means:** Directly in gas supply line. Includes 1/4" NPT upstream and downstream tap and plug. 4" models have only flanged connections.

**Ambient Temperature Rating:** -40 to +150° F (when used with V9055 actuator, ambient temperature rating is -40 to +125° F). Pressure ratings and approvals for these valves depend on the actuator used.

**Valve Capacities:** Based on gas with heat content of 1000 BTU/Cu. Ft. and specific gravity of 0.64 at 1" wc pressure drop.

Valve Size (In.)	AGA Rated Cap. cfh	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1-1/4	1406	2	EA	73751	V5055B 1010 VALVE	—
1-1/2	1717	2	EA	73752	V5055B 1028 VALVE	—
2	3620	2	EA	73753	V5055B 1069 VALVE	—

## Honeywell V5307 Pressure Regulators



Controls burner manifold pressure by repositioning the main valve diaphragm.

**Kind of Gas:** Natural.

**Ambient Temperature Range:** -50 to +175° F.

**Pressure Setting:**

3.5 In. wc. full rate setting

0.9 In. wc. step setting

**Use with Controls:** V400, V401, V800, V801, VS820, VS821, VR400, VR800, VR844, VR845, VR8440, VR8450.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	73797	V5307B 1156 REGULATOR	—

## Honeywell V8043A, E, and F Zone Valves



On-Off and diverting valves consist of an actuator motor and valve assembly for controlling the flow of hot or cold water, and some models for steam. Manual opener (on all except straight-through, normally open valves) for valve operation on power failure. Valve returns to automatic position when power is restored. Motor actuator may be replaced without removing the valve body or draining the system.

**Maximum Fluid Temp.:** 240° F.

**Minimum Fluid Temp.:** 40° F.

**Maximum Ambient Temp.:** 125° F.

**Valve Body Pattern:** Straight-through.

**De-energized Position:** Normally closed.

**Control Circuit:** 24 V, 50/60 Hz.

V8034A is U.L. Listed.

V8043F is U.L. Component Recognized.

Pipe Connection	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1/2 Sweat	10	EA	73852	V8043F1028/U VALVE	—
3/4 Sweat	10	EA	73856	V8043A1029/U VALVE	—
3/4 Sweat	10	EA	73850	V8043E1012/U VALVE	—
3/4 Sweat	10	EA	73857	V8043F1036/U VALVE	—
1 Sweat	10	EA	73858	V8043F1051/U VALVE	—

NOTE: All items except V8043A 1029 include end switch for sequencing auxilliary equipment. Items V8043F 1036 and V8043F 1051 include terminal board connector.

# Honeywell V9055A Modulating Fluid Power Gas Valve Actuator



This low-pressure, On-Off modulating actuator (for use with V5055B) controls the gas supply for commercial and industrial burners. The valve opens to low fire position when power is applied, then modulates to meet firing rate controller demand.

Indicators on valve and actuator provide constant visual indication of valve position. Actuator is equipped with an integral shaft that drives combustion air damper in unison with valve. When replacing V4034, V6034, or V9034 actuators with a V9055, the V5034 valve body must also be replaced with a V5055 valve. Valve and actuator can be mounted in any position. Actuator mounts directly to valve bonnet with 2 setscrews.

Voltage/ Frequency	Power Consumption			
	Opening		Holding	
	Watts	VA	Watts	VA
120V/60 Hz.	60	122	20	32

**Ambient Temp. Rating:** -40 to +125° F.

**Normal Opening Time:** 26 seconds.

**Low Fire Adjustment:** 5 to 50% of actuator stem travel. Pressure ratings and approvals for these actuators depend on the valve used.

**Includes:** Damper shaft.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75184	V9055A 1055 ACTUATOR	—

# Honeywell W7080A Load Analyzer



Controls heating, cooling, and space demand oriented economizer operation in the Honeywell Electronic Dual Set Point Multizone Control System. Controls 3 stages of On-Off heating, modulated heating, modulated economizer, 3 stages of cooling, and modulated cooling.

Inputs		Outputs	
From	Signal	To	Signal
Transformer	24 Vac	T7080A, T7080B	24 Vdc
T7080A, T7080B	2-22 Vdc	W7081A, 195325B	24 Vdc
W7081A	Limited 12-22 Vdc Cooling (C)	W7081A	2-12 Vdc (Low)
	Limited 2-12 Vdc Heating (HT)	W7081A	12-22 Vdc (High)
		Controlled Loads	Dry Contact Closures (Pilot Duty)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	74151	W7080A 1016 LOAD ANALYZER	—



# Honeywell W7459A Economizer Logic Module



Use with C7400 Enthalpy Sensor and M7415 Actuator to proportion outdoor and return air dampers in economizer systems. W7459A mounts on M7415 actuator for proportional control of damper. Use enthalpy set point on W7459 to select air temperature and humidity suitable for free cooling.

**Approximate Dimensions:**  
4-1/16" W x 1-1/4" H x 2-13/16" D.  
**Operating Ambient Temperature:**  
-25 to +125° F.  
**Humidity:** 5 to 95% RH.  
U.L. Listed.

Model No.	Used with Sensor	For Use with Actuator	Discharge AirTemp. Input	Min. Position Potentiometer Adjustment	Terminals for Remote Minimum Damper Position	Output Relays
W7459A 1001	C7400A 1004*	M7415	Thermistor Sensor C7150B or C7046A	Yes	Yes	2 SPDT

\* Use two C7400A 1004 sensors for differential enthalpy control.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	74165	W7459A1001/U ECONOMIZER CTL	—

# Honeywell W973 Logic Panels



Control heating, cooling, and economizer operation in commercial air conditioning and heat pump equipment. Panels can be used with staged gas, oil, or electric heat; modulating gas, hot water, or steam heat; and direct expansion or modulating chilled water cooling. Control up to 3 On-Off heat or cool stages or up to 10 On-Off heat and/or cool stages using W975 Satellite Sequencers.

Modulating DC current signal controls economizer and heating or cooling valve motors. T7067 Dual Set Point Thermostat/Transmitter located in controlled space provides heating and cooling input signals based on space demand.

C7046A sensor located in discharge air duct provides heating/cooling anticipation and economizer modulating low limit signal. System cycles all stages Off on power interruption. When power is restored, system sequences required stages On with timed interstage delay.

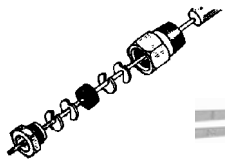
**Ambient Temperature Range:**  
-40 to +150°F  
**Wiring Connections:**  
1/4" male quick-connect terminals  
**Voltage and Frequency:**  
24 Vac, 50/60 Hz  
**Maximum Power Consumption:** 8 VA  
U.L. Component Recognized

Model No.	Modulating Econ. With Mod. Low Limit	Modulating Heating Output	Modulating Cooling Output	Heating Stages*	Cooling Stages*
W973A 1017	Yes	No	No	2	2
W973B 1016	Yes	Yes	Yes	3	3

\* W975 Satellite Sequencer can be used to increase number of On-Off stages to 10 heat or 10 cool max.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	74142	W973A 1017 LOGIC PANEL	—
2	EA	74143	W973B 1016 LOGIC PANEL	—

# Honeywell Honeywell Replacement Parts



7617M



26026B, 26026G



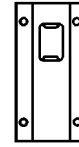
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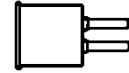
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107323A



107324A



130367

**7617M:** Illustration above shows an exploded view of the pressure fitting.

**26025B:** Crank Arm Assembly. 3/8" diameter damper shaft includes set screw. Models Q605A, D, and E.

**26026G:** Crank Arm Assembly. 1/2" diameter damper shaft includes set screw. Models Q605A, C, D, and E

**27518:** Ball joint assembly. Models Q605A–Q605E.

**27520L:** Push rod, 48" long.

**107323A:** Bulb Shield for models T835A and TA418A.

**107324A:** Bulb holder for model T835A

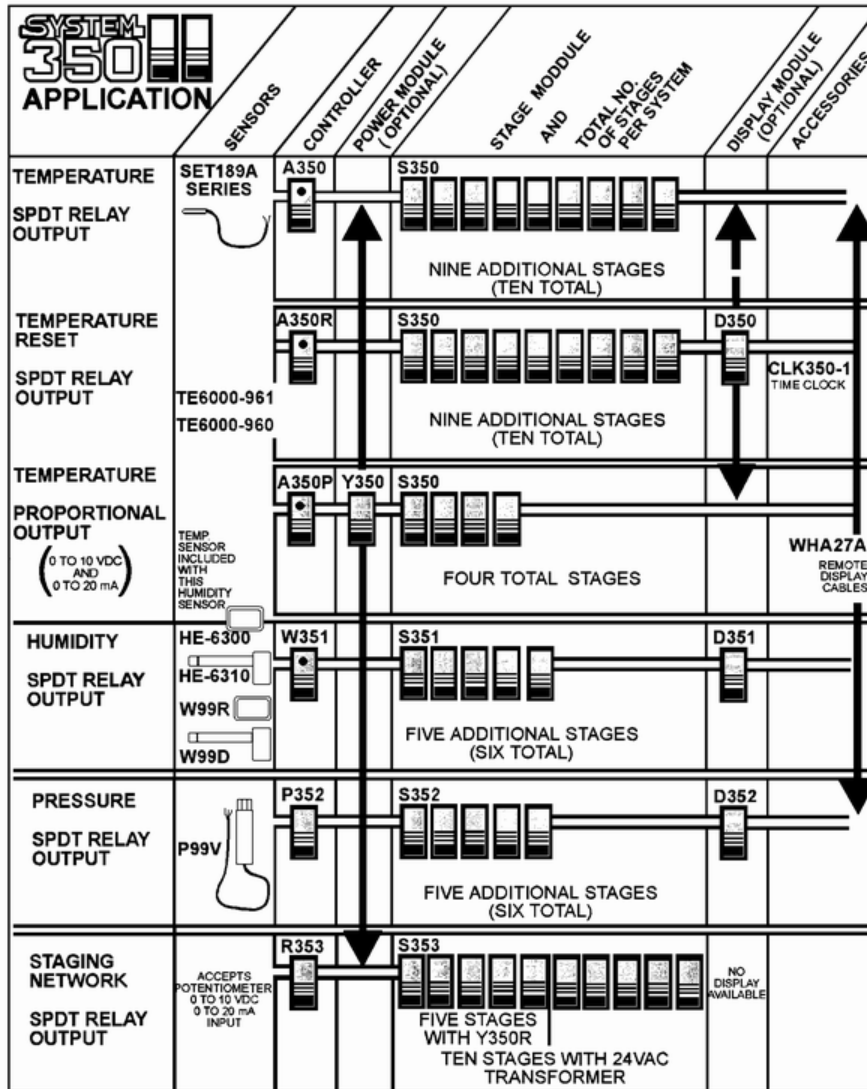
**130367:** CAD cell assembly for use with models C554A.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	74188	7616BR CRANK ARM ASSY	—
1	EA	74191	7617M COMP FITTING	—
1	EA	74830	14026 STEAM TRAP SIPHON LOOP	—
1	EA	74246	26025B/U CRANK ARM ASSY	—
1	EA	74247	26026G CRANK ARM ASSY	—
1	EA	74250	27518 BALL JOINT	—
1	EA	74254	27520L PUSHROD	—
1	EA	74390	107323A/U BULB SHIELD	—
1	EA	74391	107324A BULB HOLDER	—
10	EA	74539	120650 HEAT CONDUCTIVE COMPOUND	—
1	EA	74596	130367/U CAD CELL	—
1	EA	74431	112622AA WELL	—
1	EA	74433	112630AA WELL	—
1	EA	74540	121371A/U AQUA WELL	—
1	EA	74541	121371B/U AQUA WELL	—
1	EA	74564	123773A SAIL ASSEMBLY	—
1	EA	74599	129464N/U UV REPL TUBE	—
1	EA	74616	193987GA SENSOR	—
1	EA	74623	196146 CABLE CONN F/W136	—
2	EA	71166	272629A VALVE ADAPTER KIT ADAPTER KIT	—
1	EA	74656	802360JA/U MOTOR	—



# The System 350™

## Temperature, Pressure, and Humidity Controls



A350R



A350P



A350R



S350



D350

**System 350™ Temperature Controls**

The System 350™ Temperature offering includes on/off (SPDT), proportional (0 to 10 Vdc or 0 to 20 mA output), and reset (SPDT) controls in addition to stage, display, and power modules. The controls are used in conjunction with the SET 189A-600 Series temperature sensors and TE-6001 Series Sensor Mounting Accessories.

**Applications Include:**

- Frozen/refrigerated display cases.
- Ventilation control.
- Warm air reset of plenum temperature.
- Space temperature control.
- Temperature reset for single or multistage boilers.
- Modulating dampers.
- Temperature indication.
- Cooling tower control.
- Beverage/milk coolers.
- Modulating chilled/hot water valves.

**Features**

- Electronic accuracy and repeatability
- Temp. sensors included
- Field selectable modes heat/cool and reverse/direct-acting on controls and staging modules
- Adj. differential, offset, and reset settings over wide range
- Proportional/Integral (PI) selectable option on A350P
- Surface or DIN rail mounting
- 5-pin connectors

**Benefits**

- Reliable
- Cost-effective package
- Universal models for lower inventory investment
- Applications versatility
- Hold setpoint regardless of load on system and its rate of change
- Flexible installation capabilities
- Eliminates wiring between models



## A350A Series On/Off Temperature Controls



The A350 Series is an on/off temperature control with single-pole, double-throw relay output and LED indication. This control is used in conjunction with the SET 189A-600 Series (PTC silicon) temperature sensors.

Two basic models cover a temperature range of -30 to 250° F with an adjustable differential of 1 to 30° F. A350A modules incorporate Fahrenheit scales. The S350 Stage, D350 Display, and Y350 Power modules can be used with the A350.

### Accessories

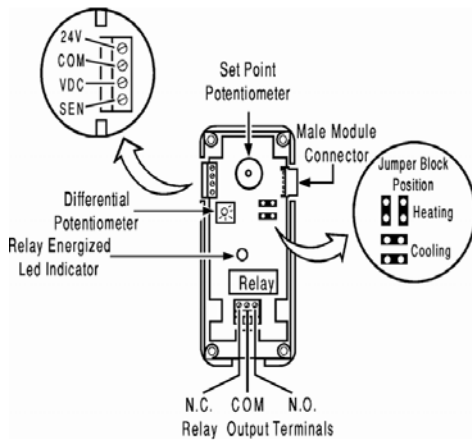
The base silicon sensor (SET189A-600R) is included with each A350A and A350B control module.

### Features

- Field selectable heat/cool model.
- Adjustable set point and differential.
- Surface or DIN rail mounting.
- LED indication of relay status.
- 5-pin connectors eliminate wiring between modules.

### Applications

- Frozen/refrigerated food cases.
- Space temperature control.
- Cooling tower control.
- Beverage coolers.
- Chiller staging.



Wiring Diagram

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75450	A350AA-1C -30/130F TEMP CONTROL	—
1	EA	75451	A350AA-2C 90/250F TEMP CONTROL	—



## A350P Series Proportional Temperature Controls

### Specifications

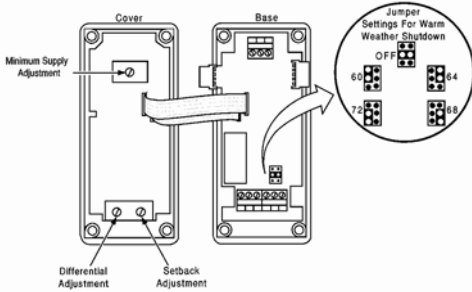
Temperature Range	A350P	-30 to 130° F; 90 to 250° F.
Throttling Range		2 F to 30° F.
Input Range	Transformer	24 Vac Class 2 50/60 Hz. + 15% -10% 20 VA min. 40 VA max.
	Y350R	Power module 24 volt rectified AC 120/240 Vac 50/60 Hz., class 2
Proportional Output		0 to 10 Vdc (750 ohm load min.) or 0 to 20 mA. (600 ohm load max.). Outputs will withstand short circuits to common and 24 Vac.
Minimum Output		Adjustable from 0 to 60% of the output span.
Output Indication		A ten segment LED indicates percentage of output.
Control Action		Direct or reverse acting ramps are switch selectable.
Current Draw	A350P	3.2 VA.
Integration Constant		Three selectable rates C1, C2, C3, and an Off position.
Ambient Temperature	Operating	-30 to 140° F.
	Shipping	-40 to 185° F.
Humidity		0 to 95% RH non-condensing.
Material	Case and Cover	High impact plastic.



# A350R Series Temperature Reset Controls



The A350R Series Electronic Temperature Reset Control raises or lowers the temperature of the supply water or air based on a proportionate rise or drop in temperature at the outside sensor. The output consists of a single-pole, single throw, normally open relay. Includes LED indication of both relay status and night setback mode. Adjustments include: rest ratio, differential, minimum supply temperature, night setback (actuated by an external time control), and warm weather shutdown. The A350R can be used as a stand-alone device or in conjunction with add-on Stage (S350), Display (D350), and Power (Y350) modules. One outside and one supply temperature sensor are included.



Wiring Diagram

### Features

- 5-pin connectors eliminate wiring between modules.
- Field-selectable warm weather shutdown.
- Adjustable differential and reset ratios.
- Accepts up to nine (9) S350 stage modules.
- Adjustable night setback (enabled by an external time control).
- Three minute minimum on-time reduces short cycling.
- LED indication of relay output and setback mode.

### Applications

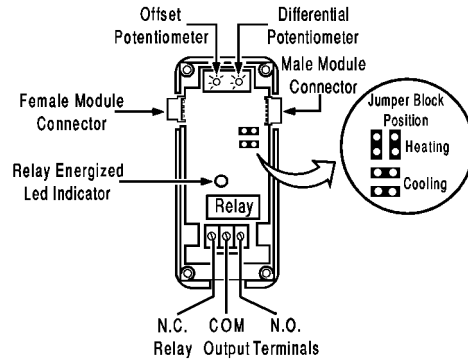
- Single or multi-stage boiler rest.
- Warm air reset of plenum temperature.

Model No.	Output	Minimum Supply Temperature Adj.	Differential	Reset Ratio Adj. (Outdoor/Indoor)	Electrical Contact Ratings 24 Vac	Temperature Sensors
A350RN-1C	SPST	50 to 30 F	1 to 30 F	1:5 to 3:1	4 amp, 24 Vac Pilot duty 42.4 VA at Vac	SET189A-600R or SET189A-607R
A350RP-1C	SPST	10 to 71 C	0.5 to 17 C	1:5 to 3:1	4 amp, 24 Vac Pilot duty 42.4 VA at Vac	SET189A-600R or SET189A-607R

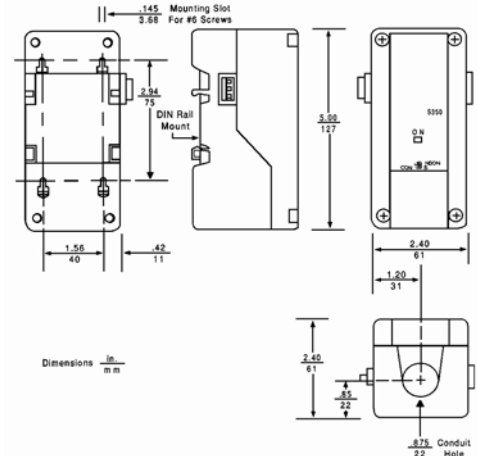
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75460	A350RS-1C TEMP RESET CTL	—



# S350 Stage-Adder Module



**Wiring Diagram**



**S350 Dimensions**

The S350 Staging Module is used in conjunction with the A350, A350P, and A350R Series Temperature Controls to add multiple stage capability. The S350 module has a single-pole, double throw output relay and three adjustments including offset (de-energize stage action from setpoint), heating or cooling output, and differential.

Up to nine S350s can be added to the A350A and A350R while up to four can accompany the A350P controller via the 5-pin, plug-in connector.

### Features

- Heating or cooling, field-selectable jumper.
- Adjustable differential and offset.
- 5-pin connector eliminates wiring between modules.

### Applications

- Multiple staging of boilers or chillers.
- Staging of refrigeration compressors.
- Multiple fan staging for cooling tower.

### Electrical Contact Ratings

<b>Voltage AC</b>	<b>120</b>	<b>208/240</b>
Full Load amp.	9.8	4.9
Locked Rotor amp.	58.8	29.4
Non-Inductive amp. 10 at 24/240 Vac		
Pilot Duty—125 VA at 24/240 Vac		

### Selection Chart S350 Stage-Adder

Model No.	Output	Differential Adjustment	Offset Adjustment
S350AA-1C	Spdt	1 to 30° F	1 to 30° F
S350AB-1C	Spdt	.6 to 16.7° F	.6 to 16.7° C

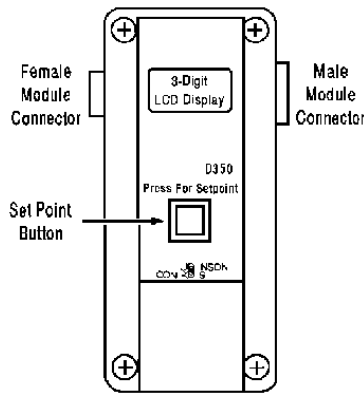
### Specifications

Specifications		
Product	S350AA	Temperature module with Fahrenheit scale
	S350AB	Temperature module with Celsius scale
Material	Case and Cover	High impact plastic
Input Voltage	S350	5 Vdc reference provided by the A350, 24 volt power supply
Ambient Temperature	Operating	-30 to 150° F (-34 to 66° C)
	Shipping	-40 to 185° F (-40 to 85° C)
Humidity		0 to 95% RH non-condensing
Relays	Control and Stage Module	Spdt enclosed relays. Contacts rated at 10 amp non-inductive, 1/2 hp, 120/240 Vac
Differential Range	S350AA	1 to 30° F
	S350AB	0.6 to 16.7° C
Offset Range	S350AA	1 to 30° F
	S350AB	0.6 to 16.7° C
Mounting		Wall or DIN rail

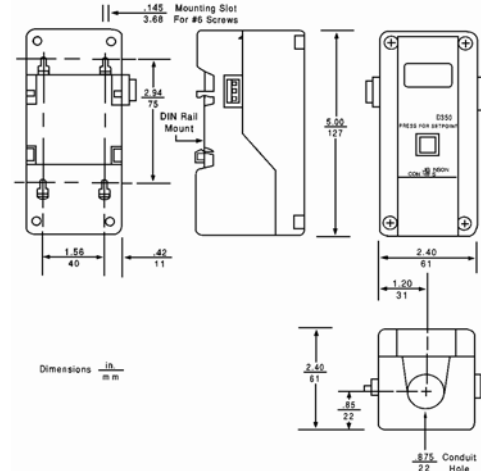
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75452	S350AA-1C MODULE	—



# D350 Display Module



D350 Dimensions



D350 Wiring Diagram

The D350 is a digital display module used in conjunction with the A350, A350P, and A350R Series temperature controls. A 3-digit LCD display provides continuous read-out of the actual space temperature.

By pressing the setpoint button for three seconds, the actual setpoint can also be displayed. When used with the A350R, pressing the setpoint button will cause the supply sensor temperature to be displayed.

### Features

- Display of actual space temperature and setpoint.
- Remote display mounting with WHA29A cable (up to 50 ft.)
- Snap-on, 5-pin connector for easy installation or add-on.

### Applications

- Temperature indication (local or remote) in conjunction with A350, A350P, and A350R controls.

### Accessories

- For remote mounting of the D350 display module, specify the catalog number (cable length) from the table to the left.

Model No.	Cable Length
WHA29A-600R	3 Ft.
WHA29A-601R	25 Ft.
WHA29A-602R	50 Ft.

### Selection Chart D350 Digital Display

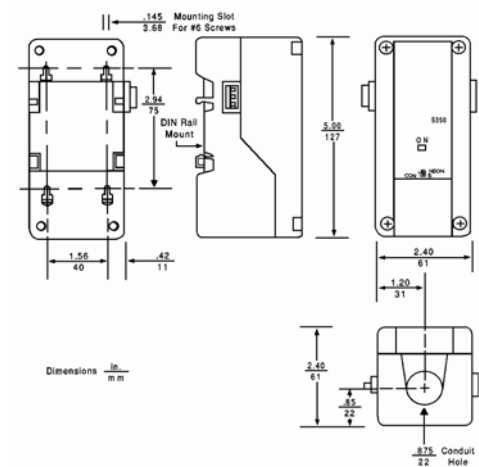
Model No.	Display Range (°F/°C)	Display Character
D350AA-1C	-30 to 250°F	.35" LCD
D350BA-1C	-34 to 120°C	.35" LCD

Specifications		
Product	D350AA	Temperature module with Fahrenheit scale
	D350BA	Temperature module with Celsius scale
Material	Case and Cover	High impact plastic
Read-out		3-digit LCD (Liquid Crystal) continuous display
Input Voltage	D350	5 Vdc provided by the A350 temperature controller
Ambient Temperature	Operating	-30 to 140°F (-34 to 60°C)
	Shipping	-40 to 167°F (-40 to 75°C)
Humidity		0 to 95% RH non-condensing
Mounting		Surface or DIN rail

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75453	D350AA-1C DIGITAL DISPLAY MODULE	—



**Y350R Power Module**



Specifications		
Material	Case and Cover	High impact plastic
Input Voltage		120/240 Vac 50/60 Hz
Output Voltage		24 Vac, 10 VA
Ambient Temp.	Operating	-30 to 140°F
	Shipping	-40 to 185°F
Humidity	All Modules	0 to 95% RH non-condensing

The Y350R power supply module is used to supply 24 volts AC to the A340, A350P, A350R, P352, R353/S353, and W351 controls.

**Features**

- 5-pin connector.
- Surface or DIN rail mounting.

**Applications**

- Provide 24 volt AC rectified power to System 350 line.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75454	Y350R-1C MODULE TRANSFORMER	—

**System 350 DIN Rail Mounting Hardware**

The BKT287 DIN rail can be used as an alternate means of mounting System 350 modules in an enclosure or open area.

- Quick, easy "slide-on" mounting concept.
- Ease of replacement and/or add-on retrofit.
- Dimensions: 35 x 75 mm, 0.30m (12 in.) long.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75149	BKT287-1R DIN RAIL MTG BRACKET	—



## ICM102, ICM203, and ICM209 Delay Timers



ICM102/105

### ICM102 Delay on Make Timer

Works with anticipator-type thermostats. Universal voltage operation. Knob-adjustable time delays. One model replaces many in field. Ideal for compressor staging. Simple, 2-wire hookup. Compact 2" x 2" package. Epoxy-encapsulated circuitry. 18-30 Vac, 1 amp, 10 amp inrush, SPST, and N.O. Fixed or adjustable time range is .1 to 600 sec.

### ICM105 Delay on Make Timer

Similar to the ICM102 without the cooling anticipator circuitry. Universal voltage operation. Knob-adjustable time delay. Low holding current. Ideal for compressor staging. Simple, 2-wire hookup. Compact 2" x 2" package. Epoxy-encapsulated circuitry. 18-240 Vac, 1.5 amp, 15 amp inrush. Fixed or adjustable time range is 1.8 to 600 seconds.

### ICM203 Off Delay on Break Timer

Universal voltage operating. Compressor lockout/anti-short cycle timer helps to protect compressors from damage caused by rapid short cycling. 2-wire hookup. Compact 2" x 2" package. Epoxy encapsulated circuitry. 18-240 Vac/Vdc, 1 amp, 10 amp inrush, SPST, and N.O. Fixed or adjustable time range is .1 to 600 sec.



ICM203

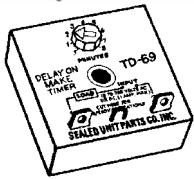
### ICM209 Time Delay on Break Timer

Universal and high voltage operation. Help prevent scroll compressor reversal. Fast response time 16 ms. Compressor lockout/anti-short cycle timer. Eliminates relay chatter due to thermostat bounce or tampering. Works with anticipator-type thermostats. Compact, epoxy-encapsulated package. 18-240 Vac, 1 amp, 1 amp inrush, 10 min. adjustable time delay, and 50/60 Hz. frequency. Requires 40mA holding current and voltage drop 2.5V @ 1 amp.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	76004	ICM102F ADJ TIME DELAY -.03 TO 10 MIN.	—
1	EA	76005	ICM203F ADJ TIME DELAY .03 TO 10 MIN.	—
1	EA	76011	ICM209 ADJ TIME DELAY 10 MIN	—
1	EA	76014	ICM105B ADJ TIME DELAY -.03 TO 10 MIN.	—



## TD69 and TD73 Adjustable Solid State Time Delays



### TD-69 Timer, Delay on Make

Adjustable 6 seconds to 8 minutes delay range. Upon application of power the time delay is initiated. On completion of selected delay period the load is energized. For manual reset, turn thermostat off or shut-off main power.

**Initiate Timer:** 70 milliseconds.

**Input Voltage:** 19 to 288 volts AC, 50/60 Hz.

**Maximum Load:** 1 amp, 10 amp inrush.

**Operating Temperature:** 0 to 160° F.

U.L. recognized.

### TD-73 Timer, Delay on Break

Adjustable 6 seconds to 5 minutes delay range.

Upon application of power, current goes through TD73 and energizes the compressor. The time delay is initiated when the thermostat opens or when there is a power interruption. The compressor relay cannot restart until the delay time is expired.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	94475	TD69 TIME DELAY	—
12	EA	94473	TD73 TIME DELAY	—



## ICM450C 3-Phase Programmable Voltage Monitors

The ICM400, ICM401, and ICM450 are specifically designed to protect motors and other 3-phase loads from premature failure and damage due to common voltage faults such as voltage unbalance, over/under voltage, phase loss, reversal, incorrect sequencing, and rapid short cycling.



**ICM400**

The **ICM400** features a lower cost with full performance protection, bright LED indicators, knob-adjustable features, and auto or manual reset. Monitors front and back of system for voltage unbalance, high/low voltage, phase loss, reversal, incorrect sequencing, and prevents rapid-short cycling. High/low fault at +/-12% of line set point.

**Input Voltage:** 190 to 630 Vac

**Input Voltage Unbalance:** Adj. 2-25%

**Input Control:** 18 to 240 Vac

**Input Frequency:** 50/60 Hz.

**Input Relay, SPDT, n.o.:** 10 amps



**ICM401**

The **ICM401** features 3-phase protection for single side, bright LED indicators for ON and FAULT, universal 3-phase input, fixed control voltage, and passive electronics. Monitors for phase reversal, phase loss, and for phase unbalance % as a function of input voltage.

**Input Voltage:** 190 to 600 Vac.

**Input Frequency:** 50/60 Hz.

**Input Control:** 18 to 30 Vac.

**Output Relay, SPDT n.o.:** 20 amps.



**ICM450**

The **ICM450** is fully programmable. Features include 25-fault memory storage, independent high/low voltage setting, and auto or manual reset. Monitors front and back side of system and identifies faults. Independent high/low voltage setting and high temperature LCD withstands up to 167° F. Monitors voltage unbalance, high/low voltage, phase loss, reversal, incorrect sequencing, and prevents rapid-short cycling. Memory is not volatile, monitor does not require control voltage for operation, and also features simultaneous voltage display.

**Input Voltage:** 190 to 630 Vac.

**Input Frequency:** 50/60 Hz.

**Input Voltage Unbalance:** Adj. 2 to 25%

**Input Control:** 18 to 240 Vac.

**Output Relay, SPDT n.o.:** 10 amps; n.c.: 6 amps

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	76023	ICM400 3 PHASE VOLTAGE MONITOR	—
1	EA	76022	ICM401 3 PHASE VOLTAGE MONITOR	—
1	EA	76006	ICM450 3 PHASE VOLTAGE MONITOR	—



## SL-2000 Series Duct Smoke Detectors



The SL-2000 Series Smoke Duct Detector is the latest innovation for early detection of smoke and products of combustion present in air moving through HVAC ducts in commercial, industrial and residential applications.

- Low-flow technology: photoelectric model listed for velocities between 100-4000 ft/min.
- Operating voltages: 230 VAC, 115 VAC, 24 VAC, 24 VDC
- Interconnect up to 30 units for common functions
- Patented no-tools-required front or rear loading and removing sampling/exhaust
- Patented test port valve allows for aerosol smoke testing without cover removal

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	75024	SL-2000-P PHOTOELECTRIC DUCT SMOKE DETECTOR	—
1	EA	75027	STN-1.0 10" SAMPLING TUBE	—
1	EA	75028	STN-2.5 30" SAMPLING TUBE	—
1	EA	75029	TG-2000 TEST GAS FOR SL-2000	—



## MSR-50R Series Advanced Remote Controller



The MSR-50R series remote controllers are designed for use with Air Products and Controls duct smoke detectors.

- Key-operated detector test and reset function
- Tri-color visual indication of detector pilot, trouble and alarm conditions
- Lever-operated, quick connection (no tools) four-position terminal block
- Port for plugging optional strobe

MSR-50RK/R

MSR-50RK/AV/R

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75025	MSR-50RK/R REMOTE CONTROLLER WITH KEY TEST	—
1	EA	75026	MSR-50RK/AV/C/R REMOTE CONTROLLER WITH KEY TEST, AUDIO & VISUAL ALERT	—

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### Group 8 Equipment

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## Premium Care Plus Extended Warranty Program

Allied Air Enterprises has teamed up with Service Net, North America's largest provider of risk management programs for the HVAC/R industry to develop a unique, user-friendly opportunity to make your business more profitable and less complicated. Beginning in 2012 all Warranty purchases and processing will be handled directly through Service Net. For complete details log onto Contractor Net, click on the Programs tab, click on the Extended Warranty tab, then choose the Dealer Program Guide.

For questions or assistance with the program, please contact Service Net Client Support at 888-257-0913 or hvacsupport@servicenet.com.



## A97USMV Gas Furnaces

### Upflow/Horizontal, Modulating, Variable Speed



#### Heat Exchanger Design

- 409 stainless steel primary heat exchanger with crimped no-weld construction
- AL 29-4C stainless steel secondary heat exchanger

#### Cabinet Design

- Standardized widths for easy coil fit

#### Air Delivery System

- ECM™ variable speed blower motor
- Easily removable slide out blower design

#### Controls

- Modulating gas valve
- Communicating control enabled
- Self diagnostics saves last 10 fault codes regardless of power interruption

#### Venting

- Category 4 direct vent appliance

#### Installation Features

- Left or right utility connections
- Zero step horizontal conversion
- Removable floor base for bottom return air

#### Warranties\*

- 10-year limited parts warranty
- Lifetime limited heat exchanger warranty

\*On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Input (Btuh)	Output (Btuh)*	AFUE	Nom. Cooling Capacity* (Tons)	Gas Inlet (In.)	Volts/Hz/Phase	Max. Time Delay Breaker or Fuse	Nominal FLA	Trans. (V.A.)	Approx. Ship. Weight (Lbs.)
A97USMV070B12S	66,000	64,000	97.0	3	1/2	120-60-1	15	7.7	40	138
A97USMV090C12S	88,000	85,000	97.0	3	1/2	120-60-1	15	7.7	40	155
A97USMV090C16S	88,000	85,000	97.0	4	1/2	120-60-1	15	10.1	40	165
A97USMV110C20S	110,000	106,000	97.0	5	1/2	120-60-1	20	12.8	40	175
A97USMV135D20S	132,000	127,000	97.0	5	1/2	120-60-1	20	12.8	40	190

#### Furnaces

Prices Available on Request

Dimensions H x W x D (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
33 x 17-1/2 x 28-1/2	1	EA	84392	A97USMV070B12S 97% MODULATING 70K 3T FURNACE UPFLOW/HORIZONTAL
33 x 21 x 28-1/2	1	EA	84393	A97USMV090C12S 97% MODULATING 90K 3T FURNACE UPFLOW/HORIZONTAL
33 x 21 x 28-1/2	1	EA	84394	A97USMV090C16S 97% MODULATING 90K 4T FURNACE UPFLOW/HORIZONTAL
33 x 21 x 28-1/2	1	EA	84395	A97USMV110C20S 97% MODULATING 110K 5T FURNACE UPFLOW/HORIZONTAL
33 x 24-1/2 x 28-1/2	1	EA	84396	A97USMV135D20S 97% MODULATING 135K 5T FURNACE UPFLOW/HORIZONTAL

#### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84341	51W11 2" AND 3" FLUSH MOUNT TERMINATION KIT
1	EA	84334	68W77 LP KIT FOR A96 FURNACE
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84340	68W64 24.5" RETURN AIR BASE
1	EA	63873	68W82 MODULATING NIGHT SERVICE KIT
1	EA	84342	71M80 1-1/2" CONCENTRIC VENT KIT
4	EA	84343	CVENT-2 2" CONCENTRIC VENT KIT 69M29
4	EA	84344	CVENT-3 3" CONCENTRIC VENT KIT 60L46



## A97DSMV Gas Furnaces

Upflow/Horizontal, Modulating, Variable Speed



### Heat Exchanger Design

- 409 stainless steel primary heat exchanger with crimped no-weld construction
- AL 29-4C stainless steel secondary heat exchanger

### Cabinet Design

- Standardized widths for easy coil fit

### Air Delivery System

- ECM™ variable speed blower motor
- Easily removable slide out blower design

### Controls

- Modulating gas valve
- Communicating control enabled
- Self diagnostics saves last 10 fault codes regardless of power interruption

### Venting

- Category 4 direct vent appliance

### Installation Features

- Left or right utility connections
- Zero step horizontal conversion
- Removable floor base for bottom return air

### Warranties\*

- 10-year limited parts warranty
- Lifetime limited heat exchanger warranty

\*On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Input (Btuh)	Output (Btuh)*	AFUE	Nom. Cooling Capacity* (Tons)	Gas Inlet (In.)	Volts/Hz/Phase	Max. Time Delay Breaker or Fuse	Nominal FLA	Trans. (V.A.)	Approx. Ship. Weight (Lbs.)
A97DSMV070B12S	66,000	64,000	97.0	3	1/2	120-60-1	15	7.7	40	140
A97DSMV090C16S	88,000	85,000	97.0	4	1/2	120-60-1	15	10.1	40	165
A97DSMV090C20S	88,000	85,000	97.0	5	1/2	120-60-1	20	12.8	40	165
A97DSMV110C20S	110,000	107,000	97.0	5	1/2	120-60-1	20	12.8	40	174

### Furnaces

Prices Available on Request

Dimensions H x W x D (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
33 x 17-1/2 x 28-1/2	1	EA	84397	A97DSMV070B12S 97% MODULATING 70K 3T FURNACE DOWNFLOW
33 x 21 x 28-1/2	1	EA	84398	A97DSMV090C16S 97% MODULATING 90K 4T FURNACE DOWNFLOW
33 x 21 x 28-1/2	1	EA	84399	A97DSMV090C20S 97% MODULATING 90K 5T FURNACE DOWNFLOW
33 x 21 x 28-1/2	1	EA	84359	A97DSMV110C20S 97% MODULATING 110K 5T FURNACE DOWNFLOW

### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84341	51W11 2" AND 3" FLUSH MOUNT TERMINATION KIT
1	EA	84334	68W77 LP KIT FOR A96 FURNACE
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84340	68W64 24.5" RETURN AIR BASE
1	EA	63873	68W82 MODULATING NIGHT SERVICE KIT
1	EA	84342	71M80 1-1/2" CONCENTRIC VENT KIT
4	EA	84343	CVENT-2 2" CONCENTRIC VENT KIT 69M29
4	EA	84344	CVENT-3 3" CONCENTRIC VENT KIT 60L46





## A96UHMV Gas Furnaces

### Upflow/Horizontal, Modulating, Variable Speed

#### A96MV Features

- Modulating heating operation starting at 40% of capacity climbing in 5% increments
- Variable speed blower motor
- Variable speed draft inducer
- Stainless steel primary and secondary heat exchangers
- Burner enclosure for quiet operation

#### Standard Features

- Standardized widths for easy coil fit
- Prepainted steel cabinet
- Basiloid packaging
- Crimped no-weld clam shell heat exchanger construction
- Aluminized inshot burners for quiet operation

- External condensate trap with clean out port for maximum installation flexibility
- Removable floor base for bottom return air
- Slide out blower assembly
- Easy access to flame sensor and igniter with forward facing fasteners
- Hot surface igniter for reliable operation
- LED fault code readouts

#### Warranties\*

- 10-year limited parts warranty
  - Lifetime limited heat exchanger warranty
- \* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Heating Capacity		Add On Cooling	CFM Range	Supply W x D	Return W x D	Dimensions H x W x D (In.)	Weight (Lbs.)
	Input	Output						
A96UHMV070B12S	66,000	63,500	1.3-3.5	600-1400	16-3/8 x 19-1/2	23 x 14	33 x 17-1/2 x 28-1/2	138
A96UHMV090C12S	88,000	84,500	1.3-3.5	600-1400	19-7/8 x 19-1/2	23 x 14	33 x 21 x 28-1/2	155
A96UHMV090C16S	88,000	84,500	2.0-4.0	800-1600	19-7/8 x 19-1/2	23 x 14	33 x 21 x 28-1/2	160
A96UHMV090C20S	88,000	84,500	3.0-5.0	1200-2000	19-7/8 x 19-1/2	23 x 14	33 x 21 x 28-1/2	162
A96UHMV110C20S	110,000	105,500	3.0-5.0	1200-2000	19-7/8 x 19-1/2	23 x 14	33 x 21 x 28-1/2	187
A96UHMV135D20S	132,000	127,000	3.0-5.0	1200-2000	23-3/8 x 19-1/2	23 x 14	33 x 24-1/2 x 28-1/2	197

#### Furnaces

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84274	A96UHMV070B12S 96% MODULATING 70K 3T FURNACE UPFLOW/HORIZONTAL
1	EA	84275	A96UHMV090C12S 96% MODULATING 90K 3T FURNACE UPFLOW/HORIZONTAL
1	EA	84276	A96UHMV090C16S 96% MODULATING 90K 4T FURNACE UPFLOW/HORIZONTAL
1	EA	84277	A96UHMV090C20S 96% MODULATING 90K 5T FURNACE UPFLOW/HORIZONTAL
1	EA	84278	A96UHMV110C20S 96% MODULATING 110K 5T FURNACE UPFLOW/HORIZONTAL
1	EA	84279	A96UHMV135D20S 96% MODULATING 135K 5T FURNACE UPFLOW/HORIZONTAL

#### Accessories

1	EA	84342	71M80 1-1/2" CONCENTRIC VENT KIT
4	EA	84343	CVENT-2 2" CONCENTRIC VENT KIT
4	EA	84344	CVENT-3 3" CONCENTRIC VENT KIT
1	EA	84341	51W11 2" AND 3" FLUSH MOUNT TERMINATION KIT
1	EA	84334	68W77 LP KIT
1	EA	63873	68W82 MODULATING NIGHT SERVICE KIT
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84340	68W64 24.5" RETURN AIR BASE



## A96DFMV Gas Furnaces



### Downflow, Modulating, Variable Speed



#### A96MV Features

- Modulating heating operation starting at 40% of capacity climbing in 5% increments
- Variable speed blower motor
- Variable speed draft inducer
- Stainless steel primary and secondary heat exchangers
- Burner enclosure for quiet operation

#### Standard Features

- Standardized widths for easy coil fit
- Prepainted steel cabinet
- Basiloid packaging
- Crimped no-weld clam shell heat exchanger construction
- Aluminized inshot burners for quiet operation

- External condensate trap with clean out port for maximum installation flexibility
- Removable floor base for bottom return air
- Slide out blower assembly
- Easy access to flame sensor and igniter with forward facing fasteners
- Hot surface igniter for reliable operation
- LED fault code readouts

#### Warranties\*

- 10-year limited parts warranty
- Lifetime limited heat exchanger warranty

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Heating Capacity		Add On Cooling	CFM Range	Supply W x D	Return W x D	Dimensions H x W x D (In.)	Weight (Lbs.)
	Input	Output						
A96DFMV070B12S	66,000	63,500	1.5-3.5	600-1400	16x 20-1/2	16-3/8 x 19-1/2	33 x 17-1/2 x 28-1/2	142
A96DFMV090C16S	88,000	84,500	2.0-4.0	800-1600	19-1/2 x 20-1/8	19-7/8 x 19-1/2	33 x 21 x 28-1/2	165
A96DFMV090C20S	88,000	84,500	3.0-5.0	600-1400	19-1/2 x 20-1/8	19-7/8 x 19-1/2	33 x 21 x 28-1/2	165
A96DFMV110C20S	110,000	105,500	3.0-5.0	600-1400	19-1/2 x 20-1/8	19-7/8 x 19-1/2	33 x 21 x 28-1/2	189

#### Furnaces

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84280	A96DFMV070B12S 96% MODULATING 70K 3T FURNACE DOWNFLOW
1	EA	84281	A96DFMV090C16S 96% MODULATING 90K 4T FURNACE DOWNFLOW
1	EA	84282	A96DFMV090C20S 96% MODULATING 90K 5T FURNACE DOWNFLOW
1	EA	84283	A96DFMV110C20S 96% MODULATING 110K 5T FURNACE DOWNFLOW

#### Accessories

1	EA	84342	71M80 1-1/2" CONCENTRIC VENT KIT
4	EA	84343	CVENT-2 2" CONCENTRIC VENT KIT
4	EA	84344	CVENT-3 3" CONCENTRIC VENT KIT
1	EA	84341	51W11 2" AND 3" FLUSH MOUNT TERMINATION KIT
1	EA	84334	68W77 LP KIT
1	EA	63873	68W82 MODULATING NIGHT SERVICE KIT



# A95UH2V Gas Furnaces

## Upflow/Horizontal, Variable Speed, Two-Stage

### Heat Exchanger Design

- 409 stainless steel primary heat exchanger material
- AL29-4C stainless steel secondary heat exchanger
- Weld less crimped S-curve primary heat exchanger design for maximum durability

### Burners

- Aluminized steel in shot burners for smooth ignition
- Isolated burner enclosure for quiet operation

### Cabinet Construction

- Heat exchanger compartment and blower compartment insulated to increase efficiency and reduce sound levels
- Baked on prepainted steel cabinet finish

### Air Delivery System

- Efficient ECM variable speed blower motor
- Motor features "soft start" and "soft stop" for quiet operation
- Dynamically balanced blower wheel with resilient motor mounts for smooth and quiet operation

### Controls

- Integrated ignition and fan control
- System Sentry™ control retains last five (5) fault codes with push button memory recall, regardless of power interruption
- Hot surface ignition system uses silicon nitride ignitor

### Venting

- 2-speed induced draft motor with stainless steel shaft, steel ball bearings, and fan cooled for long life

### Installation Features

- Left or right gas and electric entry
- Removable floor base for bottom return air

### Specifications

- Gas Inlet: 1/2"
- Volts/Hz/Phase: 120-60-1
- Trans. (V.A.): 40

### Warranty\*

- 10 year limited parts warranty
- Lifetime limited heat exchanger warranty

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	1st Stage (Btuh)		2nd Stage (Btuh)		AFUE	Nom. Cooling Capacity (tons)	Gas Inlet (In.)	Min. Time Delay Breaker or Fuse	Nominal FLA	Supply W x D	Return W x D	Approx. Weight (Lbs.)
	Input	Output	Input	Output								
A95UH2V045B12S	29,000	28,000	44,000	42,000	95.0	3	1/2	15	7.7	16-3/8 x 19-1/2	23 x 14	130
A95UH2V070B12S	43,000	41,000	66,000	62,000	95.0	3	1/2	15	7.7	16-3/8 x 19-1/2	23 x 14	138
A95UH2V090C12S	57,000	55,000	88,000	84,000	95.0	3	1/2	15	7.7	19-7/8 x 19-1/2	23 x 14	154
A95UH2V090C16S	57,000	55,000	88,000	85,000	95.0	4	1/2	15	10.1	19-7/8 x 19-1/2	23 x 14	165
A95UH2V090C20S	57,000	55,000	88,000	85,000	95.0	5	1/2	20	12.8	19-7/8 x 19-1/2	23 x 14	166
A95UH2V110C16S	72,000	70,000	110,000	105,000	95.0	4	1/2	15	10.1	19-7/8 x 19-1/2	23 x 14	173
A95UH2V110C20S	72,000	70,000	110,000	106,000	95.0	5	1/2	20	12.8	19-7/8 x 19-1/2	23 x 14	174
A95UH2V135D20S	88,000	84,000	135,000	126,000	95.0	5	1/2	20	12.8	23-3/8 x 19-1/2	23 x 14	188

### Furnaces

Prices Available on Request

Dimensions H x W x D (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
33 x 17-1/2 x 28-1/2	1	EA	84364	A95UH2V045B12S 95% 2STG VAR 45K 3T FURNACE UPFLOW/HORIZONTAL
33 x 17-1/2 x 28-1/2	1	EA	84365	A95UH2V070B12S 95% 2STG VAR 70K 3T FURNACE UPFLOW/HORIZONTAL
33 x 21 x 28-1/2	1	EA	84366	A95UH2V090C12S 95% 2STG VAR 90K 3T FURNACE UPFLOW/HORIZONTAL
33 x 21 x 28-1/2	1	EA	84367	A95UH2V090C16S 95% 2STG VAR 90K 4T FURNACE UPFLOW/HORIZONTAL
33 x 21 x 28-1/2	1	EA	84368	A95UH2V090C20S 95% 2STG VAR 90K 5T FURNACE UPFLOW/HORIZONTAL
33 x 21 x 28-1/2	1	EA	84369	A95UH2V110C16S 95% 2STG VAR 110K 4T FURNACE UPFLOW/HORIZONTAL
33 x 21 x 28-1/2	1	EA	84370	A95UH2V110C20S 95% 2STG VAR 110K 5T FURNACE UPFLOW/HORIZONTAL
33 x 24-1/2 x 28-1/2	1	EA	84371	A95UH2V135D20S 95% 2STG VAR 135K 5T FURNACE UPFLOW/HORIZONTAL

### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84340	68W64 24.5" RETURN AIR BASE
1	EA	84341	51W11 2" AND 3" FLUSH MOUNT TERMINATION KIT
1	EA	84342	71M80 1-1/2" CONCENTRIC VENT KIT
4	EA	84343	CVENT-2 2" CONCENTRIC VENT KIT
4	EA	84344	CVENT-3 3" CONCENTRIC VENT KIT
1	EA	84258	78W94 LP KIT F/ 95% 2 STG FURNACE
1	EA	87909	84W50 605927-11 NIGHT SERVICE KIT A95UH/DF 95G2



## A95DF2V Gas Furnaces

### Downflow, Variable Speed, Two-Stage



#### Heat Exchanger Design

- 409 stainless steel primary heat exchanger material
- AL29-4C stainless steel secondary heat exchanger
- Weld less crimped S-curve primary heat exchanger design for maximum durability

#### Burners

- Aluminized steel in shot burners for smooth ignition
- Isolated burner enclosure for quiet operation

#### Cabinet Construction

- Heat exchanger compartment and blower compartment insulated to increase efficiency and reduce sound levels
- Baked on prepainted steel cabinet finish

#### Air Delivery System

- Efficient ECM variable speed blower motor
- Motor features "soft start" and "soft stop" for quiet operation
- Dynamically balanced blower wheel with resilient motor mounts for smooth and quiet operation

#### Controls

- Integrated ignition and fan control
- System Sentry™ control retains last five (5) fault codes with push button memory recall, regardless of power interruption
- Hot surface ignition system uses silicon nitride ignitor

#### Venting

- 2-speed induced draft motor with stainless steel shaft, steel ball bearings, and fan cooled for long life

#### Installation Features

- Left or right gas and electric entry
- Specifications
- Gas Inlet: 1/2"
- Volts/Hz/Phase: 120-60-1
- Trans. (V.A.): 40

#### Warranty\*

- 10 year limited parts warranty
- Lifetime limited heat exchanger warranty

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	1st Stage (Btuh)		2nd Stage (Btuh)		AFUE	Nom. Cooling Capacity (tons)	Gas Inlet (In.)	Min. Time Delay Breaker or Fuse	Nominal FLA	Supply W x D	Return W x D	Approx. Weight (Lbs.)
	Input	Output	Input	Output								
A95DF2V045B12S	29,000	28,000	44,000	43,000	95.0	3	1/2	15	7.7	16 x 20-1/2	16-3/8 x 19-1/2	131
A95DF2V070B16S	43,000	42,000	66,000	64,000	95.0	4	1/2	15	10.1	16 x 20-1/2	16-3/8 x 19-1/2	138
A95DF2V090C20S	57,000	56,000	88,000	85,000	95.0	5	1/2	20	12.8	19-1/2 x 20-1/2	19-7/8 x 19-1/2	166
A95DF2V110C20S	72,000	70,000	110,000	106,000	95.0	5	1/2	20	12.8	19-1/2 x 20-1/2	19-7/8 x 19-1/2	176

#### Furnaces

Prices Available on Request

Dimensions H x W x D (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
33 x 17-1/2 x 28-1/2	1	EA	84360	A95DF2V045B12S 95% 2STG VAR 45K 3T FURNACE DOWNFLOW
33 x 17-1/2 x 28-1/2	1	EA	84361	A95DF2V070B16S 95% 2STG VAR 70K 4T FURNACE DOWNFLOW
33 x 21 x 28-1/2	1	EA	84362	A95DF2V090C20S 95% 2STG VAR 90K 5T FURNACE DOWNFLOW
33 x 21 x 28-1/2	1	EA	84363	A95DF2V110C20S 95% 2STG VAR 110K 5T FURNACE DOWNFLOW

#### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84340	68W64 24.5" RETURN AIR BASE
1	EA	84341	51W11 2" AND 3" FLUSH MOUNT TERMINATION KIT
1	EA	84342	71M80 1-1/2" CONCENTRIC VENT KIT
4	EA	84343	CVENT-2 2" CONCENTRIC VENT KIT
4	EA	84344	CVENT-3 3" CONCENTRIC VENT KIT
1	EA	84258	78W94 LP KIT F/ 95% 2 STG FURNACE
1	EA	87909	84W50 605927-11 NIGHT SERVICE KIT A95UH/DF 95G2



## A95UH1D Gas Furnaces

### Upflow/Horizontal, Single-Stage

#### A951S Features

- 1-stage heating operation
- Standard PSC blower motor
- Stainless steel primary heat exchanger with crimped no weld construction
- AL 29-4C stainless steel secondary heat exchanger

#### Standard Features

- Standardized widths for easy coil fit
- Prepainted steel cabinet
- Basiloid packaging
- Crimped no-weld clam shell heat exchanger construction
- Aluminized inshot burners for quiet operation

- External condensate trap with clean out port for maximum installation flexibility
- Removable floor base for bottom return air
- Slide out blower assembly
- Easy access to flame sensor and igniter with forward facing fasteners
- Hot surface igniter for reliable operation
- LED fault code readouts

#### Warranties\*

- 10-year limited parts warranty
- Lifetime limited heat exchanger warranty

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Heating Capacity		Add On Cooling	CFM Range	Dimensions H x W x D (In.)	Return W x D	Supply W x D	Weight (Lbs.)
	Input	Output						
A95UH1D045B08S	44,000	42,000	1.5-2.5	550-1000	33-1/8 x 17-1/2 x 28-1/2	16-3/8 x 19-1/2	23 x 14	120
A95UH1D070B12S	66,000	62,500	2.5-3.5	900-1400	33-1/8 x 17-1/2 x 28-1/2	16-3/8 x 19-1/2	23 x 14	130
A95UH1D090C12S	88,000	83,500	2.0-3.5	800-1400	33-1/8 x 21 x 28-1/2	16-3/8 x 19-1/2	23 x 14	140
A95UH1D090C16S	88,000	83,500	3.0-4.0	1200-1600	33-1/8 x 21 x 28-1/2	19-7/8 x 19-1/2	23 x 14	143
A95UH1D110C16S	110,000	104,500	3.0-4.0	1200-1600	33-1/8 x 21 x 28-1/2	19-7/8 x 19-1/2	23 x 14	168
A95UH1D110C20S	110,000	104,500	4.0-5.0	1600-2000	33-1/8 x 21 x 28-1/2	19-7/8 x 19-1/2	23 x 14	171
A95UH1D135D20S	132,000	125,500	4.0-5.0	1600-2000	33-1/8 x 24-1/2 x 28-1/2	23-3/8 x 19-1/2	23 x 14	181

#### Furnaces

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84381	A95UH1D045B08S 95% 1STG 45K 2T FURNACE UP/HORIZ STAINLESS
1	EA	84382	A95UH1D070B12S 95% 1STG 70K 3T FURNACE UP/HORIZ STAINLESS
1	EA	84383	A95UH1D090C12S 95% 1STG 90K 3T FURNACE UP/HORIZ STAINLESS
1	EA	84384	A95UH1D090C16S 95% 1STG 90K 4T FURNACE UP/HORIZ STAINLESS
1	EA	84385	A95UH1D110C16S 95% 1STG 110K 4T FURNACE UP/HORIZ STAINLESS
1	EA	84386	A95UH1D110C20S 95% 1STG 110K 5T FURNACE UP/HORIZ STAINLESS
1	EA	84387	A95UH1D135D20S 95% 1STG 135K 5T FURNACE UP/HORIZ STAINLESS

#### Accessories

1	EA	84342	71M80 1-1/2" CONCENTRIC VENT KIT
4	EA	84343	CVENT-2 2" CONCENTRIC VENT KIT
4	EA	84344	CVENT-3 3" CONCENTRIC VENT KIT
1	EA	84341	51W11 2" AND 3" FLUSH MOUNT TERMINATION KIT
1	EA	84333	68W75 LP KIT
1	EA	84337	68W61 14.5" RETURN AIR BASE
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84340	68W64 24.5" RETURN AIR BASE
1	EA	63861	68W80 SINGLE STAGE NIGHT SERVICE KIT



## A95DF1D Gas Furnaces



### Downflow, Single-Stage



#### A951S Features

- 1-stage heating operation
- Standard PSC blower motor
- Stainless steel primary heat exchanger with crimped no weld construction
- AL 29-4C stainless steel secondary heat exchanger
- **Standard Features**
- Standardized widths for easy coil fit
- Prepainted steel cabinet
- Basiloid packaging
- Crimped no-weld clam shell heat exchanger construction
- Aluminized inshot burners for quiet operation

- External condensate trap with clean out port for maximum installation flexibility
- Removable floor base for bottom return air
- Slide out blower assembly
- Easy access to flame sensor and igniter with forward facing fasteners
- Hot surface igniter for reliable operation
- LED fault code readouts

#### Warranties\*

- 10-year limited parts warranty
- Lifetime limited heat exchanger warranty

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Heating Capacity		Add On Cooling	CFM Range	Supply W x D	Return W x D	Dimensions H x W x D (In.)	Weight (Lbs.)
	Input	Output						
A95DF1D045B12S	44,000	42,000	2.0-3.0	850-1300	16 x 20-1/8	16-3/8 x 19-1/2	33-1/8 x 17-1/2 x 28-1/2	123
A95DF1D070B16S	66,000	62,500	2.0-3.0	800-1250	16 x 20-1/8	16-3/8 x 19-1/2	33-1/8 x 17-1/2 x 28-1/2	131
A95DF1D090C20S	88,000	83,500	4.0-5.0	1600-2000	19-1/2 x 20-1/8	19-7/8 x 19-1/2	33-1/8 x 21 x 28-1/2	144
A95UH1D110C20S	110,000	104,500	4.0-5.0	1600-2000	19-1/2 x 20-1/8	19-7/8 x 19-1/2	33-1/8 x 21 x 28-1/2	172

#### Furnaces

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84388	A95DF1D045B12S 95% 1 STAGE 45K 3T FURNACE DOWNFLOW STAINLESS
1	EA	84389	A95DF1D070B12S 95% 1 STAGE 70K 3T FURNACE DOWNFLOW STAINLESS
1	EA	84390	A95DF1D090C20S 95% 1 STAGE 90K 5T FURNACE DOWNFLOW STAINLESS
1	EA	84391	A95DF1D110C20S 95% 1 STAGE 110K 5T FURNACE DOWNFLOW STAINLESS

#### Accessories

1	EA	84342	71M80 1-1/2" CONCENTRIC VENT KIT
4	EA	84343	CVENT-2 2" CONCENTRIC VENT KIT
4	EA	84344	CVENT-3 3" CONCENTRIC VENT KIT
1	EA	84341	51W11 2" AND 3" FLUSH MOUNT TERMINATION KIT
1	EA	84333	68W75 LP KIT
1	EA	63861	68W80 SINGLE STAGE NIGHT SERVICE KIT



## A95UH1E Gas Furnaces

### Upflow/Horizontal, Single-Stage, Constant Torque Motor

#### Heat Exchanger Design

- Stainless steel primary heat exchanger with crimped non-welded construction
- AL 29-4C stainless steel secondary heat exchanger

#### Burner

- Aluminized steel inshot burners for smooth ignition

#### Cabinet Design

- Standardized widths for easy coil fit

#### Air Delivery System

- Multi-speed high efficiency (constant torque) blower motor
- Easily removable slide out blower design
- Enhanced cooling SEER ratings when applied with properly matched cooling equipment.

#### Controls

- Durable silicon nitride ignitor
- Self diagnostics saves last 10 fault codes regardless of power interruption
- Control features electronic air cleaner and humidifier terminals

#### Venting

- Design certified for direct (2-pipe) and non direct (1-pipe) applications

- Easily vented with PVC pipe

#### Installation Features

- Left or right utility connection
- Design certified for direct and non-direct vent applications
- Zero step horizontal conversion
- Removable floor base for bottom return air

#### Warranties\*

- 10 year limited parts warranty
- Lifetime limited heat exchanger warranty

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Heating Capacity		Nom. Cooling Capacity	CFM Range	Supply W x D	Return W x D	Dimensions H x W x D (In.)	Weight (Lbs.)
	Input	Output						
A95UH1E045B12S	44,000	42,000	1-1/2-3	635-1215	16-3/8 x 19-1/2	23 x14	33 x 17-1/2 x 28-1/2	129
A95UH1E070B12S	66,000	64,000	1-1/2-3	670-1215	16-3/8 x 19-1/2	23 x14	33 x 17-1/2 x 28-1/2	136
A95UH1E090C16S	88,000	85,000	2-1/2-4	895-1560	19-7/8 x 19-1/2	23 x14	33 x 21 x 28-1/2	160
A95UH1E110C20S	110,000	106,000	3-5	1215-2030	19-7/8 x 19-1/2	23 x14	33 x 21 x 28-1/2	170
A95UH1E135D20S	132,000	126,000	3-1/2-5	1395-2225	23-3/8 x 19-1/2	23 x14	33 x 24-1/2 x 28-1/2	187

#### Furnaces

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84372	A95UH1E045B12S 95% 45K 3T W/X13 MOTOR FURNACE UPFLOW/HORIZONTAL
1	EA	84373	A95UH1E070B12S 95% 70K 3T W/X13 MOTOR FURNACE UPFLOW/HORIZONTAL
1	EA	84374	A95UH1E090C16S 95% 90K 4T W/X13 MOTOR FURNACE UPFLOW/HORIZONTAL
1	EA	84375	A95UH1E110C20S 95% 110K 5T W/X13 MOTOR FURNACE UPFLOW/HORIZONTAL
1	EA	84376	A95UH1E135D20S 95% 135K 5T W/X13 MOTOR FURNACE UPFLOW/HORIZONTAL

#### Accessories

1	EA	84333	68W75 LP KIT
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84340	68W64 24.5" RETURN AIR BASE
1	EA	84341	51W11 2" AND 3" FLUSH MOUNT TERMINATION KIT
1	EA	84342	71M80 1-1/2" CONCENTRIC VENT KIT
4	EA	84343	CVENT-2 2" CONCENTRIC VENT KIT
4	EA	84344	CVENT-3 3" CONCENTRIC VENT KIT



## A95DF1E Gas Furnaces



### Downflow, Single-Stage, Constant Torque Motor



#### Heat Exchanger Design

- Stainless steel primary heat exchanger with crimped non-welded construction
- AL 29-4C stainless steel secondary heat exchanger

#### Burner

- Aluminized steel inshot burners for smooth ignition

#### Cabinet Design

- Standardized widths for easy coil fit

#### Air Delivery System

- Multi-speed high efficiency (constant torque) blower motor
- Easily removable slide out blower design
- Enhanced cooling SEER ratings when applied with properly matched cooling equipment.

#### Controls

- Durable silicon nitride ignitor
- Self diagnostics saves last 10 fault codes regardless of power interruption
- Control features electronic air cleaner and humidifier terminals

#### Venting

- Design certified for direct (2-pipe) and non direct (1-pipe) applications
- Easily vented with PVC pipe

#### Installation Features

- Left or right utility connection
- Design certified for direct and non-direct vent applications
- Zero step horizontal conversion
- Removable floor base for bottom return air

#### Warranties\*

- 10 year limited parts warranty
- Lifetime limited heat exchanger warranty

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Heating Capacity		Nom. Cooling Capacity	CFM Range	Supply W x D	Return W x D	Dimensions H x W x D (In.)	Weight (Lbs.)
	Input	Output						
A95DF1E045B12S	44,000	42,000	1-1/2-3	650-1230	16 x 20-1/8	16-3/8 x 19-1/2	33 x 17-1/2 x 28-1/2	131
A95DF1E070B16S	66,000	64,000	2-1/2-4	690-1585	16 x 20-1/8	16-3/8 x 19-1/2	33 x 17-1/2 x 28-1/2	146
A95DF1E090C16S	88,000	85,000	2-1/2-4	925-1570	19-1/2 x 20-1/8	19-7/8 x 19-1/2	33 x 21 x 28-1/2	162
A95DF1E110C20S	110,000	106,000	3-5	1190-2060	19-1/2 x 20-1/8	19-7/8 x 19-1/2	33 x 21 x 28-1/2	174

#### Furnaces

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84377	A95DF1E045B12S 95% 45K 3T W/X13 MOTOR FURNACE DOWNFLOW
1	EA	84378	A95DF1E070B16S 95% 70K 4T W/X13 MOTOR FURNACE DOWNFLOW
1	EA	84379	A95DF1E090C16S 95% 90K 4T W/X13 MOTOR FURNACE DOWNFLOW
1	EA	84380	A95DF1E110C20S 95% 110K 5T W/X13 MOTOR FURNACE DOWNFLOW

#### Accessories

1	EA	84333	68W75 LP KIT
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84340	68W64 24.5" RETURN AIR BASE
1	EA	84341	51W11 2" AND 3" FLUSH MOUNT TERMINATION KIT
1	EA	84342	71M80 1-1/2" CONCENTRIC VENT KIT
4	EA	84343	CVENT-2 2" CONCENTRIC VENT KIT
4	EA	84344	CVENT-3 3" CONCENTRIC VENT KIT





## A93UH1D Gas Furnaces

### Upflow/Horizontal, Single-Stage

#### A931A Features

- 1-Stage heating operation
- Standard PSC blower motor
- Aluminized primary heat exchanger
- Stainless steel secondary heat exchanger

#### Standard Features

- Standardized widths for easy coil fit
- Prepainted steel cabinet
- Basiloid packaging
- Crimped no-weld clam shell heat exchanger construction
- Aluminized inshot burners for quiet operation

- External condensate trap with clean out port for maximum installation flexibility
- Removable floor base for bottom return air
- Slide out blower assembly
- Easy access to flame sensor and igniter with forward facing fasteners
- Hot surface igniter for reliable operation
- LED fault code readouts

#### Warranties\*

- 10-year limited parts warranty
- Lifetime limited heat exchanger warranty

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Heating Capacity		Add On Cooling	CFM Range	Supply W x D	Return W x D	Dimensions H x W x D (In.)	Weight (Lbs.)
	Input	Output						
A93UH1D045B08A	44,000	41,000	1.5-2.5	550-1000	16-3/8 x 19-1/2	23 x 14	33-1/8 x 17-1/2 x 28-1/2	120
A93UH1D070B08A	66,000	61,000	1.5-2.5	550-1000	16-3/8 x 19-1/2	23 x 14	33-1/8 x 17-1/2 x 28-1/2	126
A93UH1D070B12A	66,000	61,000	2.5-3.5	900-1400	16-3/8 x 19-1/2	23 x 14	33-1/8 x 17-1/2 x 28-1/2	128
A93UH1D090C12A	88,000	82,000	2.0-3.5	800-1400	16-3/8 x 19-1/2	23 x 14	33-1/8 x 21 x 28-1/2	138
A93UH1D090C16A	88,000	82,000	3.0-4.0	1200-1700	19-7/8 x 19-1/2	23 x 14	33-1/8 x 21 x 28-1/2	141
A93UH1D110C16A	110,000	102,000	3.0-4.0	1200-1700	19-7/8 x 19-1/2	23 x 14	33-1/8 x 21 x 28-1/2	166
A93UH1D110C20A	110,000	102,000	4.0-5.0	1550-2100	19-7/8 x 19-1/2	23 x 14	33-1/8 x 21 x 28-1/2	169
A93UH1D135D20A	132,000	123,000	4.0-5.0	1550-2200	23-3/8 x 19-1/2	23 x 14	33-1/2 x 24-1/2 x 28-1/2	178

#### Furnaces

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84295	A93UH1D045B08A 93% 1 STAGE 45K 2T FURNACE UPFLOW/HORIZONTAL
1	EA	84296	A93UH1D070B08A 93% 1 STAGE 70K 2T FURNACE UPFLOW/HORIZONTAL
1	EA	84297	A93UH1D070B12A 93% 1 STAGE 70K 3T FURNACE UPFLOW/HORIZONTAL
1	EA	84298	A93UH1D090C12A 93% 1 STAGE 90K 3T FURNACE UPFLOW/HORIZONTAL
1	EA	84299	A93UH1D090C16A 93% 1 STAGE 90K 4T FURNACE UPFLOW/HORIZONTAL
1	EA	84300	A93UH1D110C16A 93% 1 STAGE 110K 4T FURNACE UPFLOW/HORIZONTAL
1	EA	84301	A93UH1D110C20A 93% 1 STAGE 110K 5T FURNACE UPFLOW/HORIZONTAL
1	EA	84302	A93UH1D135D20A 93% 1 STAGE 135K 5T FURNACE UPFLOW/HORIZONTAL

#### Accessories

1	EA	84342	71M80 1-1/2" CONCENTRIC VENT KIT
4	EA	84343	CVENT-2 2" CONCENTRIC VENT KIT
4	EA	84344	CVENT-3 3" CONCENTRIC VENT KIT
1	EA	84341	51W11 2" AND 3" FLUSH MOUNT TERMINATION KIT
1	EA	84333	68W75 LP KIT
1	EA	84337	68W61 14.5" RETURN AIR BASE
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84340	68W64 24.5" RETURN AIR BASE
1	EA	63861	68W80 SINGLE STAGE NIGHT SERVICE KIT



## A93DF1D Gas Furnaces

### Downflow, Single-Stage



#### A931A Features

- 1-Stage heating operation
- Standard PSC blower motor
- Aluminized primary heat exchanger
- Stainless steel secondary heat exchanger

#### Standard Features

- Standardized widths for easy coil fit
- Prepainted steel cabinet
- Basiloid packaging
- Crimped no-weld clam shell heat exchanger construction
- Aluminized inshot burners for quiet operation

- External condensate trap with clean out port for maximum installation flexibility
- Removable floor base for bottom return air
- Slide out blower assembly
- Easy access to flame sensor and igniter with forward facing fasteners
- Hot surface igniter for reliable operation
- LED fault code readouts
- **Warranties\***
- 10-year limited parts warranty
- Lifetime limited heat exchanger warranty

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Heating Capacity		Add On Cooling	CFM Range	Supply W x D	Return W x D	Dimensions H x W x D (In.)	Weight (Lbs.)
	Input	Output						
A93DF1D045B12A	44,000	41,000	2.0-3.0	850-1300	16 x 20-1/8	16-3/8 x 19-1/2	33-1/8 x 17-1/2 x 28-1/2	123
A93DF1D070B12A	66,000	61,000	2.0-3.0	800-1250	16 x 20-1/8	16-3/8 x 19-1/2	33-1/8 x 17-1/2 x 28-1/2	129
A93DF1D090C16A	88,000	82,000	3.0-4.0	1200-1600	19-1/2 x 20-1/8	19-7/8 x 19-1/2	33-1/8 x 21 x 28-1/2	142
A93DF1D110C20A	110,000	102,000	4.0-5.0	1550-2000	19-1/2 x 20-1/8	19-7/8 x 19-1/2	33-1/8 x 21 x 28-1/2	170
A93UH1D135D20A	132,000	123,000	4.0-5.0	1550-2200	23-3/8 x 19-1/2	23 x 14	33-1/2 x 24-1/2 x 28-1/2	178

#### Furnaces

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84303	A93DF1D045B12A 93% 1 STAGE 45K 3T FURNACE DOWNFLOW
1	EA	84304	A93DF1D070B12A 93% 1 STAGE 70K 3T FURNACE DOWNFLOW
1	EA	84305	A93DF1D090C16A 93% 1 STAGE 90K 4T FURNACE DOWNFLOW
1	EA	84306	A93DF1D110C20A 93% 1 STAGE 110K 5T FURNACE DOWNFLOW

#### Accessories

1	EA	84342	71M80 1-1/2" CONCENTRIC VENT KIT
4	EA	84343	CVENT-2 2" CONCENTRIC VENT KIT
4	EA	84344	CVENT-3 3" CONCENTRIC VENT KIT
1	EA	84341	51W11 2" AND 3" FLUSH MOUNT TERMINATION KIT
1	EA	84333	68W75 LP KIT
1	EA	63861	68W80 SINGLE STAGE NIGHT SERVICE KIT



## A80UH2V Gas Furnaces

### Upflow/Horizontal, Two-Stage, Variable Speed



#### A802V

- 2-stage heating control
- Variable speed blower motor
- 2-speed inducer
- Burner enclosure for quiet operation
- Lowfire at 70% capacity

#### Standard Features

- Standardized widths for easy coil fit
- Prepainted steel cabinet
- Basiloid packaging
- Crimped no-weld clam shell heat exchanger construction

- Aluminized inshot burners for quiet operation
- Removable floor base for bottom return air
- Slide out blower assembly
- Easy access to flame sensor and igniter with forward facing fasteners
- Hot surface igniter for reliable operation
- LED fault code readouts

#### Warranties\*

- 10-year limited parts warranty
  - Lifetime limited heat exchanger warranty
- \* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Heating Capacity		Add On Cooling	CFM Range	Supply W x D	Return W x D	Dimensions H x W x D (In.)	Weight (Lbs.)
	Input	Output						
A80UH2V070A12	66,000	52,800	1.5-3.0	600-1400	13-3/8 x 19-1/2	23 x 14	33 x 14-1/2 x 28-3/8	128
A80UH2V090B12	88,000	70,400	1.5-3.0	600-1400	16-3/8 x 19-1/2	23 x 14	33 x 17-1/2 x 28-3/8	143
A80UH2V090B16	88,000	70,400	2.0-4.0	800-1600	16-3/8 x 19-1/2	23 x 14	33 x 17-1/2 x 28-3/8	154
A80UH2V090C20	88,000	70,400	3.0-5.0	1200-2000	19-7/8 x 19-1/2	23 x 14	33 x 21 x 28-3/8	173
A80UH2V110C20	110,000	88,000	3.0-5.0	1200-2000	19-7/8 x 19-1/2	23 x 14	33 x 21 x 28-3/8	181
A80UH2V135D20	132,000	105,600	3.0-5.0	1200-2000	23-3/8 x 19-1/2	23 x 14	33 x 24-1/2 x 28-3/8	199

#### Furnaces

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84307	A80UH2V070A12 80% 2 STAGE VAR 70K 3T FURNACE UPFLOW/HORIZONTAL
1	EA	84308	A80UH2V090B12 80% 2 STAGE VAR 90K 3T FURNACE UPFLOW/HORIZONTAL
1	EA	84309	A80UH2V090B16 80% 2 STAGE VAR 90K 4T FURNACE UPFLOW/HORIZONTAL
1	EA	84310	A80UH2V090C20 80% 2 STAGE VAR 90K 5T FURNACE UPFLOW/HORIZONTAL
1	EA	84311	A80UH2V110C20 80% 2STG VAR 110K 5T FURNACE UPFLOW/HORIZONTAL
1	EA	84312	A80UH2V135D20 80% 2 STAGE VAR 135K 5T FURNACE UPFLOW/HORIZONTAL

#### Accessories

1	EA	63872	68W81 TWO STAGE NIGHT SERVICE KIT
1	EA	84337	68W61 14.5" RETURN AIR BASE
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84340	68W64 24.5" RETURN AIR BASE
1	EA	84259	77W08 LP KIT F/ 80% 2 STAGE FURNACE



## A80DF2V Gas Furnaces

### Downflow, Two-Stage, Variable Speed



#### A802V

- 2-stage heating control
- Variable speed blower motor
- 2-speed inducer
- Burner enclosure for quiet operation
- Lowfire at 70% capacity

#### Standard Features

- Standardized widths for easy coil fit
- Prepainted steel cabinet
- Basiloid packaging
- Crimped no-weld clam shell heat exchanger construction

- Aluminized inshot burners for quiet operation
- Removable floor base for bottom return air
- Slide out blower assembly
- Easy access to flame sensor and igniter with forward facing fasteners
- Hot surface igniter for reliable operation
- LED fault code readouts

#### Warranties\*

- 10-year limited parts warranty
  - Lifetime limited heat exchanger warranty
- \* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Heating Capacity		Add On Cooling	CFM Range	Supply W x D	Return W x D	Dimensions H x W x D (In.)	Weight (Lbs.)
	Input	Output						
A80DF2V070A12	66,000	52,800	1.5-3.0	600-1400	13 x 19-1/4	13-3/8 x 19-1/2	33 x 14-1/2 x 28-3/8	130
A80DF2V090B16	88,000	70,400	2.0-4.0	800-1600	16 x 19-1/4	16-3/8 x 19-1/2	33 x 17-1/2 x 28-3/8	156
A80DF2V110C20	110,000	88,000	3.0-5.0	1200-2000	19-1/2 x 19-1/4	19-7/8 x 19-1/2	33 x 21 x 28-3/8	183

#### Furnaces

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84313	A80DF2V070A12 80% 2 STAGE 70K 3T FURNACE DOWNFLOW
1	EA	84314	A80DF2V090B16 80% 2 STAGE 90K 4T FURNACE DOWNFLOW
1	EA	84315	A80DF2V110C20 80% 2 STAGE 110K 5T FURNACE DOWNFLOW

#### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	63872	68W81 TWO STAGE NIGHT SERVICE KIT
1	EA	84259	77W08 LP KIT F/ 80% 2 STAGE FURNACE



## A80UH1D Gas Furnaces

### Upflow/Horizontal, Single-Stage

#### Heat Exchanger Design

- Aluminized steel tapered crimped no-weld clam shell heat exchanger design

#### Cabinet Design

- Standardized widths for easy coil fit
- Prepainted steel cabinet

#### Air Delivery System

- Multi-speed PSC blower motor
- Easily removable slide out blower design

#### Controls

- Single-stage gas valve
- Self diagnostics saving last 5 fault codes regardless of power interruption

#### Venting

- Rotatable draft inducer for venting flexibility

#### Installation Features

- Left or right utility connections
- Removable floor base for bottom return air
- Zero step horizontal conversion

#### Warranties\*

- 10-year limited parts warranty
  - Lifetime limited heat exchanger warranty
- \* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Heating Capacity		Add On Cooling	CFM Range	Supply W x D	Return W x D	Dimensions H x W x D (In.)	Weight (Lbs.)
	Input	Output						
A80UH1D045A12	44,000	35,200	1.5-3.0	600-1400	13-3/8 x 19-1/2	23 x 14	33 x 14-1/2 x 28-3/8	119
A80UH1D070A08	66,000	52,800	1.0-2.0	400-800	13-3/8 x 19-1/2	23 x 14	33 x 14-1/2 x 28-3/8	120
A80UH1D070A12	66,000	52,800	1.5-3.0	600-1400	13-3/8 x 19-1/2	23 x 14	33 x 14-1/2 x 28-3/8	123
A80UH1D090B12	88,000	70,400	1.5-3.0	600-1400	16-3/8 x 19-1/2	23 x 14	33 x 17-1/2 x 28-3/8	135
A80UH1D090B16	88,000	70,400	2.0-4.0	800-1600	16-3/8 x 19-1/2	23 x 14	33 x 17-1/2 x 28-3/8	146
A80UH1D110C12	110,000	88,000	1.5-3.0	600-1400	19-3/8 x 19-1/2	23 x 14	33 x 21 x 28-3/8	163
A80UH1D110C16	110,000	88,000	2.0-4.0	800-1600	19-3/8 x 19-1/2	23 x 14	33 x 21 x 28-3/8	166
A80UH1D110C20	110,000	88,000	3.0-5.0	1200-2000	19-3/8 x 19-1/2	23 x 14	33 x 21 x 28-3/8	172
A80UH1D135D20	132,000	105,600	3.0-5.0	1200-2000	23-3/8 x 19-1/2	23 x 14	33 x 24-1/2 x 28-3/8	196

#### Furnaces

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84316	A80UH1D045A12 80% 1 STAGE 45K 3T FURNACE UPFLOW/HORIZONTAL
1	EA	84317	A80UH1D070A08 80% 1 STAGE 70K 2T FURNACE UPFLOW/HORIZONTAL
1	EA	84318	A80UH1D070A12 80% 1 STAGE 70K 3T FURNACE UPFLOW/HORIZONTAL
1	EA	84319	A80UH1D090B12 80% 1 STAGE 90K 3T FURNACE UPFLOW/HORIZONTAL
1	EA	84320	A80UH1D090B16 80% 1 STAGE 90K 4T FURNACE UPFLOW/HORIZONTAL
1	EA	84321	A80UH1D110C12 80% 1 STAGE 110K 3T FURNACE UPFLOW/HORIZONTAL
1	EA	84322	A80UH1D110C16 80% 1 STAGE 110K 4T FURNACE UPFLOW/HORIZONTAL
1	EA	84323	A80UH1D110C20 80% 1 STAGE 110K 5T FURNACE UPFLOW/HORIZONTAL
1	EA	84324	A80UH1D135D20 80% 1 STAGE 135K 5T FURNACE UPFLOW/HORIZONTAL

#### Accessories

1	EA	84331	72W47 LP KIT
1	EA	63861	68W80 SINGLE STAGE NIGHT SERVICE KIT
1	EA	84337	68W61 14.5" RETURN AIR BASE
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84340	68W64 24.5" RETURN AIR BASE



## A80DF1D Gas Furnaces

### Downflow, Single-Stage



#### Heat Exchanger Design

- Aluminized steel tapered crimped no-weld clam shell heat exchanger design

#### Cabinet Design

- Standardized widths for easy coil fit
- Prepainted steel cabinet

#### Air Delivery System

- Multi-speed PSC blower motor
- Easily removable slide out blower design

#### Controls

- Single-stage gas valve
- Self diagnostics saving last 5 fault codes regardless of power interruption

#### Venting

- Rotatable draft inducer for venting flexibility

#### Installation Features

- Left or right utility connections
- Removable floor base for bottom return air
- Zero step horizontal conversion

#### Warranties\*

- 10-year limited parts warranty
- Lifetime limited heat exchanger warranty

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Heating Capacity		Add On Cooling	CFM Range	Supply W x D	Return W x D	Dimensions H x W x D (In.)	Weight (Lbs.)
	Input	Output						
A80DF1D045A12	44,000	35,200	1.5-3.0	600-1400	13 x 19-1/4	13-3/8 x 19-1/2	33 x 14-1/2 x 28-3/8	121
A80DF1D070A12	66,000	52,800	1.5-3.0	600-1400	13 x 19-1/4	13-3/8 x 19-1/2	33 x 14-1/2 x 28-3/8	125
A80DF1D090B16	88,000	70,400	2.0-4.0	800-1600	16 x 19-1/4	16-3/8 x 19-1/2	33 x 17-1/2 x 28-3/8	148
A80DF1D110C20	110,000	88,000	3.0-5.0	1200-2000	19-1/2 x 19-1/4	19-7/8 x 19-1/2	33 x 21 x 28-3/8	175

#### Furnaces

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84325	A80DF1D045A12 80% 1 STAGE 45K 3T FURNACE DOWNFLOW
1	EA	84326	A80DF1D070A12 80% 1 STAGE 70K 3T FURNACE DOWNFLOW
1	EA	84327	A80DF1D090B16 80% 1 STAGE 90K 4T FURNACE DOWNFLOW
1	EA	84328	A80DF1D110C20 80% 1 STAGE 110K 5T FURNACE DOWNFLOW

#### Accessories

1	EA	84331	72W47 LP KIT
1	EA	63861	68W80 SINGLE STAGE NIGHT SERVICE KIT



# LUF, LHF, LBF 80% Oil Furnaces

## C Series, Gray, Upflow, Horizontal/Counterflow, Basement

### Heat Exchanger

- Heavy duty 14 gauge steel with a long lasting ceramic fiber combustion chamber.
- Easy access large diameter clean out ports.

### Blower

- Direct drive has slide-out design with quick plug-in wiring.
- Dynamically balanced blower with resilient motor mounts for smooth and quiet operation.
- Belt drive models have split phase permanently lubricated motor, adjustable pulley and sheave.

### Burner

- High quality Beckett Flame Retention burner for efficient combustion.
- High efficiency air flow system to provide consistent operation through all operating conditions.

### Warranty\*

- Lifetime limited heat exchanger warranty
- 10 year limited parts warranty

\*On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

### Upflow Models

Model No.	Nozzle Size	Input (BTUH)	Output (BTUH)	AFUE (ICS)	Nominal Cooling Cap.	Flue Dia. (In.)	Volts/Hz/Phase	Max. Time Delay Breaker or Fuse (amp)	Trans. (V.A.)	Approx. Weight (lb.)
LUF80C57/72D12	.50	70,000	58,000	83.0	2.0-3.0	6	120/60/1	15	40	225
	.60	90,000	74,000							
LUF80C84/95D16	.65	105,000	85,000	81.0	2.5-4.0	6	120/60/1	15	40	225
	.75	119,000	97,000							
LUF80C112/125/D20	.85	140,000	113,000	81.0	3.0-5.0	6	120/60/1	15	40	275
	1.00	154,000	125,000							

### Horizontal/Counterflow Models

Model No.	Nozzle Size	Input (BTUH)	Output (BTUH)	AFUE (ICS)	Nominal Cooling Cap.	Flue Dia. (In.)	Volts/Hz/Phase	Max. Time Delay Breaker or Fuse (amp)	Trans. (V.A.)	Approx. Weight (lb.)
LHF80C84/95D12	.65	105,000	85,000	81.0	2.0-3.0	6	120/60/1	15	40	225
	.75	119,000	97,000	81.0						
LHF80C112/125D20	.85	140,000	113,000	81.0	3.0-5.0	6	120/60/1	15	40	265
	1.00	154,000	125,000	81.0						

### Basement Models

Model No.	Nozzle Size	Input (BTUH)	Output (BTUH)	AFUE (ICS)	Nominal Cooling Cap.	Flue Dia. (In.)	Volts/Hz/Phase	Max. Time Delay Breaker or Fuse (amp)	Trans. (V.A.)	Approx. Weight (lb.)
LBF80C57/72D12	.50	70,000	57,000	83	2.0-3.0	6	120/60/1	15	40	250
	.65	90,000	74,000	83						
LBF80C84/95D16	.65	105,000	85,000	81.0	2.5-4.0	6	120/60/1	15	40	250
	.75	119,000	97,000	81.0						
LBF80C112/125D20	.85	140,000	113,000	81.0	3.0-5.0	6	120/60/1	15	40	285
	1.00	154,000	125,000	81.0						

### Upflow Models

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	61532	LUF80C57/72D12 GRAY 80% UPLFLOW OIL FURNACE
1	EA	61533	LUF80C84/95D16 GRAY 80% UPLFLOW OIL FURNACE
1	EA	61534	LUF80C112/125D20 GRAY 80% UPFLOW OIL FURNACE

### Horizontal/Counterflow Models

Prices Available on Request

1	EA	61535	LHF80C84/95D12 GRAY 80% COUNTERFLOW/HORIZ OIL FURNACE
1	EA	61538	LHF80C112/125D20 GRAY 80% COUNTERFLOW/HORIZ OIL FURNACE

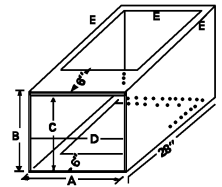
### Basement Models

Prices Available on Request

1	EA	61526	LBF80C57/72D12 GRAY 80% BASEMENT OIL FURNACE
1	EA	61527	LBF80C84/95D16 GRAY 80% BASEMENT OIL FURNACE
1	EA	61530	LBF80C112/125D20 GRAY 80% BASEMENT OIL FURNACE



# Furnace Installation Accessories



Cabinet Diagram

### Cabinets for Counterflow Coils Lined with 1" Duct Liner to Reduce Noise

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	23204	655 14W X 24H X 28D 22GA COIL CABINET ONLY	—
1	EA	23205	655 18W X 29H X 28D 22GA COIL CABINET ONLY	—
1	EA	23206	655 22W X 30H X 28D 22GA COIL CABINET ONLY	—
1	EA	23207	655 24W X 30H X 28D 22GA COIL CABINET ONLY	—

### 3/8" Insulation Line Sets

Line Size Liquid	Line Size Suction	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
3/8	3/4	12	EA	54668	61280250 -25FT 3/4S 3/8L 3/8I COPPER LINE SET	—	—
3/8	3/4	7	EA	54670	61280500 -50FT 3/4S 3/8L 3/8I COPPER LINE SET	—	—
3/8	7/8	12	EA	54671	61480250 -25FT 7/8S 3/8L 3/8I COPPER LINE SET	—	—
3/8	7/8	7	EA	54673	61480500 -50FT 7/8S 3/8L 3/8I COPPER LINE SET	—	—

### 1/2" Insulation Line Sets

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
8	EA	54675	61220250-25FT 3/4S 3/8L 1/2I B COPPER LINE SET	—
5	EA	54676	61220500-50FT 3/4S 3/8L 1/2I B COPPER LINE SET	—
8	EA	54677	61420250-25FT 7/8S 3/8L 1/2I B COPPER LINE SET	—
5	EA	54678	61420500-50FT 7/8S 3/8L 1/2I B COPPER LINE SET	—
4	EA	54679	61820500-50FT 11/8S 3/8L 1/2I B COPPER LINE SET	—

### 3/4" Insulation Line Sets

Length (Ft.)	Suction Line	Liquid Line	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
25	3/4	3/8	8	EA	54706	61230250 -25FT 3/4S 3/8L 3/4I COPPER LINE SET	—	—
50	3/4	3/8	4	EA	54707	61230500 -50FT 3/4S 3/8L 3/4I COPPER LINE SET	—	—
25	7/8	3/8	7	EA	54708	61430250 -25FT 7/8S 3/8L 3/4I COPPER LINE SET	—	—
50	7/8	3/8	4	EA	54709	61430500 -50FT 7/8S 3/8L 3/4I COPPER LINE SET	—	—

### Hard Start Kit (Required with all Expansion Valve Units)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94857	SPP6 RELAY & HARD START CAP	—





## Twinning Kit for Ultra V Furnaces



For use with all single stage Ultra V models, as well as the GHJ, GUJ, GCJ, GUK, and GCK furnaces. Twinning kit is used to combine two furnaces increasing output to the combined BTU input of the 2 models.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	67414	ATWIN578 TWINNING KIT	—



## Draft Hood Kits



### Features

- Used on G1N80 Upflow or Counterflow applications.  
585 for 100K, 125K and 150K BTU input.  
586 for 50K and 75K BTU input.
- Simple and quick installation.
- Low installation cost.
- Can be installed on either interior or exterior tile lined chimneys.
- No derating of furnace required.

### Benefits

- Adapts the current line of nominal 80% AFUE furnace's to meet customers needs.
- Shortens furnace installation time.
- Alternative to relining chimney or running new dedicated chimney.
- Gives the maximum amount of venting options.
- Maintains furnace's efficiency and output.

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	68324	ACHIM585 DRAFT HOOD KIT
1	EA	68323	ACHIM586 DRAFT HOOD KIT



## 4SCU18LT Condensing Units

18 SEER, R-410A



### Compressor

- 2-stage scroll compressor
- Grommet mounted compressor for quiet operation
- Heavy duty compressor sound blanket for quiet operation

### Cabinet

- Full metal louvered jacket coil guard protection
- Controls located in corner post for easy installation and service
- Baked polyester paint finish over galvanized steel for maximum durability
- PVC coated wire fan discharge grille

### Coil

- Enhanced aluminum fins and copper tubing for higher efficiency and capacity
- Raised coil prevents debris from collecting in bottom of coil and causing loss of airflow

### Components

- Filter drier installed for system protection
- Charged for 15 feet of line set

### Warranties\*

- 10 year limited warranty on compressor
- 10 year limited warranty on all parts
- ARI certified
- UL listed

\*On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not complete on time. See warranty certificate for complete details.

### Condensing Units

Prices Available Upon Request

Dimensions H x W x D (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
44 x 35-2/3 x 37-2/3	1	EA	63586	4SCU18LT124P 18 SEER 208/230V 1PH CONDENSER R410A
44 x 35-2/3 x 37-2/3	1	EA	63588	4SCU18LT136P 18 SEER 208/230V 1PH CONDENSER R410A
44 x 35-2/3 x 37-2/3	1	EA	63590	4SCU18LT148P 18 SEER 208/230V 1PH CONDENSER R410A
44 x 35-2/3 x 37-2/3	1	EA	63591	4SCU18LT160P 18 SEER 208/230V 1PH CONDENSER R410A

### Accessories

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
4SCU18LT124, 36, 48, 60	1	EA	61692	34M72 LOW AMBIENT KIT F/4SCU13
4SCU18LT124, 36	1	EA	67835	A4TXV01-1 R-410A EXPANSION VALVE
4SCU18LT148, 60	1	EA	67839	H4TXV03-1 R-410A EXPANSION VALVE



# 4SCU18LT Condensing Unit Performance Ratings

**AIREASE**

Outdoor Model	Indoor Model	Variable Speed Furnace	SEER	EER	AHRI <sup>1</sup> Rated Capacity	Sensible Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device <sup>2</sup>
								Outdoor		Indoor		Suction	Liquid	
	Evap. Coil or Air Handler <sup>3</sup>							Suction	Liquid	Suction	Liquid			
4SCU18LT124P	BCS2M36V00NA1P		18.0	13.0	24,000	18,500	900	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	EFV08BC	17.8	13.0	24,000	18,500	900	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	EFV08BC	18.0	13.0	24,000	18,500	900	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30A	A80DF1E045A12	17.0	13.0	24,000	18,500	900	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A80DF1E070B12	16.5	13.0	24,000	18,500	900	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A80DF1E070B12	16.5	13.0	24,000	18,500	900	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30A	A80DF2V070A12	18.0	13.0	24,000	18,500	900	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A80DF2V090B16	18.0	13.0	24,000	18,500	900	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A80DF2V090B16	18.0	13.0	24,000	18,500	900	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30A	A80UH1E045A12*	17.0	13.0	24,000	18,500	900	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A80UH1E070B12*	16.5	13.0	24,000	18,500	900	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A80UH1E070B12*	16.5	13.0	24,000	18,500	900	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30A	A80UH2V070A12	17.5	13.0	24,000	18,500	900	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A80UH2V090B12	18.0	13.0	24,000	18,500	900	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A80UH2V090B12	18.0	13.0	24,000	18,500	900	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A80UH2V090B16	18.0	13.0	24,000	18,500	900	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A80UH2V090B16	18.0	13.0	24,000	18,500	900	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A95DF1E045B12S	17.0	13.0	24,000	18,500	800	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A95DF1E045B12S	17.0	13.0	24,000	18,500	800	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A95DF2V045B12S	18.0	13.0	24,000	18,500	900	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A95DF2V045B12S	18.0	13.0	24,000	18,500	900	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A95UH1E045B12S	17.0	13.0	24,000	18,500	830	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A95UH1E045B12S	17.0	13.0	24,000	18,500	830	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A95UH1E070B12S	17.0	13.0	24,000	18,500	800	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A95UH1E070B12S	17.0	13.0	24,000	18,500	800	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A95UH2V045B12S	18.0	13.0	24,000	18,500	900	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A95UH2V045B12S	18.0	13.0	24,000	18,500	900	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A95UH2V070B12S	18.0	13.0	24,000	18,500	900	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A95UH2V070B12S	18.0	13.0	24,000	18,500	900	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30C	A95UH2V090C12S	18.0	13.0	24,000	18,500	900	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43C	A95UH2V090C12S	18.0	13.0	24,000	18,500	900	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A96DFMV070B12	18.0	13.0	24,000	18,500	900	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A96DFMV070B12	18.0	13.0	24,000	18,500	900	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A96UHMV070B12	18.0	13.0	24,000	18,500	900	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
E(U,C,M,H)1P43B	A96UHMV070B12	18.0	13.0	24,000	18,500	900	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
E(U,C,M)1P30C	A96UHMV090C12	18.0	13.0	24,000	18,500	900	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
E(U,C,M,H)1P43C	A96UHMV090C12	18.0	13.0	24,000	18,500	900	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
E(U,C,M,H)1P43B	LBR,LUF****V14	17.0	13.0	24,000	18,500	900	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
E(U,C,M,H)1P43B	LHF,LBR,LUF****V12	17.0	13.0	24,000	18,500	900	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
E(U,C,M,H)1P43B	LUF,LBF,LBR****V14	17.0	13.0	24,000	18,500	900	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
4SCU18LT136P	BCS2M48V00NA1P		17.8	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	EFV12BC	17.5	11.9	34,000	25,500	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36B	EFV12BC	17.8	12.4	35,600	26,700	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	EFV12BC	17.8	12.4	35,600	26,700	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,H)1P62C	EFV16CC	18.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30A	A80DF1E045A12	16.0	12.0	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36A	A80DF1E045A12	17.0	12.0	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A80DF1E070B12	17.0	12.0	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36B	A80DF1E070B12	17.0	12.0	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A80DF1E070B12	17.0	12.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A80DF1E090B16	16.0	12.0	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36B	A80DF1E090B16	16.0	12.0	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A80DF1E090B16	16.0	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36B	A80DF2V090B16	17.0	12.5	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A80DF2V090B16	17.0	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,H)1P62C	A80DF2V110C20	18.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36C	A80DF2V110C20	17.0	13.0	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43C	A80DF2V110C20	17.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30A	A80UH1E045A12*	17.0	12.0	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36A	A80UH1E045A12*	17.0	12.0	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A80UH1E070B12*	16.0	12.0	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36B	A80UH1E070B12*	16.0	12.0	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A80UH1E070B12*	16.0	12.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A80UH1E090B16*	16.0	12.0	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01

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Outdoor Model	Indoor Model	Variable Speed Furnace Evap. Coil or Air Handler3	SEER	EER	AHRI <sup>1</sup> Rated Capacity	Sensible Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device <sup>2</sup> TXV
								Outdoor		Indoor		Suction	Liquid	
	Suction	Liquid						Suction	Liquid					
45CU18LT136P (Continued)	E(U,C,M,H)1P36B	A80UH1E090B16*	16.0	12.0	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A80UH1E090B16*	16.0	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)136A	A80UH2V070A12	16.5	12.0	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36B	A80UH2V090B12	17.0	12.5	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A80UH2V090B12	17.0	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36B	A80UH2V090B16	16.5	12.0	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A80UH2V090B16	17.0	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,H)1P62C	A80UH2V090C20	18.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36C	A80UH2V090C20	17.0	13.0	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43C	A80UH2V090C20	17.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A95DF1E045B12S	15.5	11.5	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36B	A95DF1E045B12S	16.0	12.0	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A95DF1E045B12S	16.0	12.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A95DF1E070B16S	17.0	12.0	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36B	A95DF1E070B16S	17.0	12.5	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A95DF1E070B16S	17.0	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,H)1P62C	A95DF1E090C16S	17.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30C	A95DF1E090C16S	16.0	12.0	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36C	A95DF1E090C16S	17.0	12.5	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43C	A95DF1E090C16S	16.0	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A95DF2V045B12S	17.0	12.0	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36B	A95DF2V045B12S	17.5	12.5	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A95DF2V045B12S	17.5	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A95DF2V070B16S	17.0	11.5	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36B	A95DF2V070B16S	17.0	12.0	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A95DF2V070B16S	17.5	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,H)1P62C	A95DF2V090C20S	18.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30C	A95DF2V090C20S	17.0	12.0	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36C	A95DF2V090C20S	17.5	12.5	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43C	A95DF2V090C20S	17.5	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,H)1P62C	A95DF2V110C20S	18.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30C	A95DF2V110C20S	17.0	12.0	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36C	A95DF2V110C20S	17.5	12.5	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43C	A95DF2V110C20S	17.5	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A95UH1E045B12S	15.5	11.5	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36B	A95UH1E045B12S	16.0	12.0	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A95UH1E045B12S	16.0	12.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A95UH1E070B12S	17.0	11.5	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36B	A95UH1E070B12S	17.0	12.0	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A95UH1E070B12S	17.0	12.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,H)1P62C	A95UH1E090C16S	17.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30C	A95UH1E090C16S	16.0	12.0	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36C	A95UH1E090C16S	17.0	12.5	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43C	A95UH1E090C16S	16.0	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A95UH2V045B12S	17.0	12.0	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36B	A95UH2V045B12S	17.5	12.5	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A95UH2V045B12S	17.5	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M)1P30B	A95UH2V070B12S	17.0	12.0	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36B	A95UH2V070B12S	17.5	12.5	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A95UH2V070B12S	17.5	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
E(U,C,H)1P62C	A95UH2V090C12S	18.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
E(U,C,M)1P30C	A95UH2V090C12S	17.0	12.0	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
E(U,C,M,H)1P36C	A95UH2V090C12S	17.5	12.5	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
E(U,C,M,H)1P43C	A95UH2V090C12S	17.5	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
E(U,C,H)1P62C	A95UH2V090C16S	18.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
E(U,C,M)1P30C	A95UH2V090C16S	17.0	12.0	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
E(U,C,M,H)1P36C	A95UH2V090C16S	17.5	12.5	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
E(U,C,M,H)1P43C	A95UH2V090C16S	17.5	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
E(U,C,H)1P62C	A95UH2V090C20S	18.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
E(U,C,M)1P30C	A95UH2V090C20S	17.0	12.0	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
E(U,C,M,H)1P36C	A95UH2V090C20S	17.5	12.5	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
E(U,C,M,H)1P43C	A95UH2V090C20S	17.5	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
E(U,C,H)1P62C	A95UH2V110C16S	18.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
E(U,C,M)1P30C	A95UH2V110C16S	17.0	12.0	35,000	26,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
E(U,C,M,H)1P36C	A95UH2V110C16S	17.5	12.5	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
E(U,C,M,H)1P43C	A95UH2V110C16S	17.5	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
E(U,C,M,H)1P36B	A96DFMV070B12	17.0	12.0	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	

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Outdoor Model	Indoor Model Evap. Coil or Air Handler <sup>3</sup>	Variable Speed Furnace	SEER	EER	AHRI <sup>1</sup> Rated Capacity	Sensible Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device <sup>2</sup> TXV
								Outdoor		Indoor		Suction	Liquid	
								Suction	Liquid	Suction	Liquid			
45CU18LT136P (Continued)	E(U,C,M,H)1P43B	A96DFMV070B12	17.0	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,H)1P62C	A96DFMV090C16	18.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36C	A96DFMV090C16	17.5	12.5	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43C	A96DFMV090C16	17.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,H)1P62C	A96DFMV090C20	18.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36C	A96DFMV090C20	17.0	12.5	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43C	A96DFMV090C20	17.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,H)1P62C	A96DFMV110C20	18.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36C	A96DFMV110C20	17.0	12.5	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43C	A96DFMV110C20	17.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36B	A96UHMV070B12	17.0	12.0	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43B	A96UHMV070B12	17.0	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,H)1P62C	A96UHMV090C12	18.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36C	A96UHMV090C12	17.5	12.5	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43C	A96UHMV090C12	17.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,H)1P62C	A96UHMV110C20	18.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P36C	A96UHMV110C20	17.5	12.5	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01
	E(U,C,M,H)1P43C	A96UHMV110C20	17.0	13.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
	E(U,C,H)1P62C	LBR84-95V14	15.8	12.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01
E(U,C,H)1P62C	LHF84-95V12	15.8	12.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
E(U,C,H)1P62C	LHR84-95V12	15.8	12.3	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
E(U,C,H)1P62C	LUF112-125V20	15.8	12.3	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
E(U,C,H)1P62C	LUF57-72V12	15.8	12.0	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
E(U,C,H)1P62C	LUF84-95V14	15.8	12.3	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
45CU18LT148P	BCS2M48V00NA1P		15.5	12.0	46,500	34,400	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	EFV16CC	15.5	12.0	46,500	34,400	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	EFV16CC	15.5	11.5	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,M)1P48C	EFV16CC	15.1	11.5	46,500	34,400	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62D	EFV20DC	15.5	12.0	46,000	34,100	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A80DF1E110C20	15.1	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A80DF1E110C20	15.1	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,M)1P48C	A80DF1E110C20	14.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A80DF2V110C20	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A80DF2V110C20	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,M)1P48C	A80DF2V110C20	15.0	11.5	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A80UH1E090C20*	15.1	12.0	46,500	34,400	1550	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A80UH1E090C20*	15.1	12.0	47,000	34,800	1550	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,M)1P48C	A80UH1E090C20*	14.5	11.7	46,000	34,100	1550	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A80UH1E110C20*	15.1	12.0	46,500	34,400	1550	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A80UH1E110C20*	15.1	12.0	47,000	34,800	1550	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,M)1P48C	A80UH1E110C20*	14.5	11.7	46,000	34,100	1550	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A80UH2V090C20	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A80UH2V090C20	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,M)1P48C	A80UH2V090C20	15.0	11.5	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A80UH2V110C20	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A80UH2V110C20	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,M)1P48C	A80UH2V110C20	14.5	11.5	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62D	A80UH2V135D20	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A95DF1E110C20S	15.1	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A95DF1E110C20S	15.1	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,M)1P48C	A95DF1E110C20S	14.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A95DF2V090C20S	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A95DF2V090C20S	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,M)1P48C	A95DF2V090C20S	14.8	11.5	46,500	34,400	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A95DF2V110C20S	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A95DF2V110C20S	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,M)1P48C	A95DF2V110C20S	14.8	11.5	46,500	34,400	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A95UH1E110C20S	15.1	12.0	46,500	34,400	1550	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A95UH1E110C20S	15.1	12.0	47,000	34,800	1550	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,M)1P48C	A95UH1E110C20S	14.5	11.7	46,000	34,100	1550	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A95UH2V090C16S	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A95UH2V090C16S	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,M)1P48C	A95UH2V090C16S	14.8	11.5	46,500	34,400	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A95UH2V090C20S	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A95UH2V090C20S	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,M)1P48C	A95UH2V090C20S	14.8	11.5	46,500	34,400	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A95UH2V110C16S	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
E(U,C,H)1P62C	A95UH2V110C16S	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03	

Continued from the Previous Page

Outdoor Model	Indoor Model Evap. Coil or Air Handler <sup>3</sup>	Variable Speed Furnace	SEER	EER	AHRI <sup>1</sup> Rated Capacity	Sensible Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device <sup>2</sup> TXV
								Outdoor		Indoor		Suction	Liquid	
								Suction	Liquid	Suction	Liquid			
45CU18LT148P (Continued)	E(U,C,M)1P48C	A95UH2V110C16S	14.8	11.5	46,500	34,400	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A95UH2V110C20S	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A95UH2V110C20S	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,M)1P48C	A95UH2V110C20S	14.8	11.5	46,500	34,400	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A96DFMV090C16	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62D	A95UH2V135D20S	16.0	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A96DFMV090C16	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A96DFMV090C20	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A96DFMV090C20	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,M)1P48C	A96DFMV090C20	14.5	11.5	46,500	34,400	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A96DFMV110C20	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A96DFMV110C20	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,M)1P48C	A96DFMV110C20	15.0	11.5	46,500	34,400	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A96UHMV090C16	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A96UHMV090C16	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,M)1P48C	A96UHMV090C16	14.5	11.5	46,500	34,400	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A96UHMV090C20	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A96UHMV090C20	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,M)1P48C	A96UHMV090C20	15.0	11.5	46,500	34,400	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A96UHMV110C20	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A96UHMV110C20	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,M)1P48C	A96UHMV110C20	14.5	11.5	46,500	34,400	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62D	A96UHMV135D20	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62D	LUF*****V20	15.1	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
45CU18LT160P	BCS2M60V00NA1P		15.5	11.7	57,000	41,600	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	EFV16CC	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62D	EFV20DC	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A80DF1E110C20	15.1	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A80DF1E110C20	15.1	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A80DF2V110C20	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A80DF2V110C20	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A80UH1E090C20*	15.5	12.0	57,000	41,600	1730	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A80UH1E090C20*	15.5	12.0	58,000	42,400	1730	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A80UH1E110C20*	15.5	12.0	57,000	41,600	1730	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A80UH1E110C20*	15.5	12.0	58,000	42,400	1730	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A80UH2V090C20	15.0	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A80UH2V090C20	15.0	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A80UH2V110C20	15.0	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A80UH2V110C20	15.0	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62D	A80UH2V135D20	15.0	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A95DF1E110C20S	15.1	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A95DF1E110C20S	15.1	11.5	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A95DF2V090C20S	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A95DF2V090C20S	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A95DF2V110C20S	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A95DF2V110C20S	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A95UH1E110C20S	15.1	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A95UH1E110C20S	15.1	11.5	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A95UH2V090C20S	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A95UH2V090C20S	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A95UH2V110C20S	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A95UH2V110C20S	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62D	A95UH2V135D20S	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A96DFMV090C20	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A96DFMV090C20	15.5	11.5	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A96DFMV110C20	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A96DFMV110C20	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A96UHMV090C20	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A96UHMV090C20	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P49C	A96UHMV110C20	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62C	A96UHMV110C20	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62D	A96UHMV135D20	15.5	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03
	E(U,C,H)1P62D	LUF*****V20	15.1	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	H4TXV03

NOTE:

<sup>1</sup> Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240

<sup>2</sup> Required to achieve AHRI rating. If NA (Not Applicable) is in the piston column, then TXV is required.

<sup>3</sup> A blower time delay relay is standard on all Allied Air Enterprises furnace and AH products.



## 4SCU16LT Condensing Units

16 SEER, R-410A



### Compressor

- 2-stage scroll compressor
- Grommet mounted compressor for quiet operation
- Heavy duty compressor sound blanket for quiet operation

### Cabinet

- Full metal louvered jacket coil guard protection
- Controls located in corner post for easy installation and service
- Baked polyester paint finish over galvanized steel for maximum durability
- PVC coated wire fan discharge grille

### Coil

- Enhanced aluminum fins and copper tubing for higher efficiency and capacity
- Raised coil prevents debris from collecting in bottom of coil and causing loss of airflow

### Components

- Filter drier installed for system protection
- Charged for 15 feet of line set

### Warranties\*

- 10 year limited warranty on compressor
- 10 year limited warranty on all parts
- ARI certified
- UL listed

\*On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not complete on time. See warranty certificate for complete details.

## Condensing Units

Prices Available Upon Request

Dimensions H x W x D (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
29-3/4 x 26-3/4 x 24-3/4	1	EA	67761	4SCU16LT124P-1 16 SEER 208/203V 1PH R-410A CONDENSER
29-3/4 x 31-1/4 x 29-3/8	1	EA	67762	4SCU16LT136P-1 16 SEER 208/230V 1PH R-410A CONDENSER
37-3/4 x 31-1/4 x 29-3/8	1	EA	67763	4SCU16LT148P-1 16 SEER 208/230V 1PH R-410A CONDENSER
43-3/4 x 31-1/4 x 29-3/8	1	EA	67764	4SCU16LT160P-1 16 SEER 208/230V 1PH R-410A CONDENSER

## Accessories

For the Following Equipment	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
4SCU16LT124, 36	1	EA	67835	A4TXV01-1 R-410A EXPANSION VALVE
4SCU16LT148	1	EA	67836	A4TXV02-1 R-410A EXPANSION VALVE
4SCU16LT160	1	EA	67839	H4TXV03-1 R-410A EXPANSION VALVE



# 4SCU16LT Condensing Unit Performance Ratings



Outdoor Model	Indoor Model	Variable Speed Furnace Evap. Coil or Air Handler <sup>2</sup>	SEER	EER	AHRI Rated Capacity	Sensible Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device		
								Outdoor		Indoor		Suction	Liquid		Suction	Liquid
								Suction	Liquid	Suction	Liquid					
4SCU16LT124P	BCS2M24V00NA1P		15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	BCS2M36V00NA1P		15.5	12.5	24,000	18,000	800	3/4	3/8	7/8	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36B	EFV08BC	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,M,H)1P29B	EFV08BC	15.5	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P29A	A80DF1E045A12	15.0	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36A	A80DF1E045A12	15.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P29B	A80DF1E070B12	14.5	11.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36B	A80DF1E070B12	14.5	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P29A	A80DF2V070A12	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36A	A80DF2V070A12	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36B	A80DF2V090B16	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,M,H)1P29B	A80DF2V090B16	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P29A	A80UH1E045A12*	15.5	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36A	A80UH1E045A12*	15.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P29B	A80UH1E070B12*	15.0	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36B	A80UH1E070B12*	14.5	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P29A	A80UH2V070A12	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36A	A80UH2V070A12	15.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36B	A80UH2V090B12	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,M,H)1P29B	A80UH2V090B12	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36B	A80UH2V090B16	15.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,M,H)1P29B	A80UH2V090B16	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P29B	A95DF1E045B12S	15.0	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36B	A95DF1E045B12S	15.0	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P29B	A95DF2V045B12S	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36B	A95DF2V045B12S	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P29B	A95UH1E045B12S	15.0	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36B	A95UH1E045B12S	15.0	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P29B	A95UH1E070B12S	14.5	11.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36B	A95UH1E070B12S	14.5	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P29B	A95UH2V045B12S	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36B	A95UH2V045B12S	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P29B	A95UH2V070B12S	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36B	A95UH2V070B12S	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36C	A95UH2V090C12S	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36B	A96DFMV070B12	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,M,H)1P29B	A96DFMV070B12	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36B	A96UHMV070B12	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,M,H)1P29B	A96UHMV070B12	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
	E(U,C,M,H)1P36C	A96UHMV090C12	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01		
E(U,C,M,H)1P36B	LBR,LUF****V14	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01			
E(U,C,M,H)1P36B	LHF,LHR,LUF****V12	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01			
E(U,C,M,H)1P36B	LUF,LBF,LBR****V14	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01			
4SCU16LT136P	BCS2M36V00NA1P		16.0	12.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01		
	E(U,C,M,H)1P36B	EFV12BC	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01		
	E(U,C,M,H)1P43B	EFV12BC	16.0	11.5	35,000	26,200	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01		
	E(U,C,M,H)1P36A	A80DF1E045A12	15.5	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01		
	E(U,C,M,H)1P36B	A80DF1E070B12	16.0	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01		
	E(U,C,M,H)1P43B	A80DF1E070B12	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01		
	E(U,C,M,H)1P36B	A80DF1E090B16	15.5	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01		
	E(U,C,M,H)1P43B	A80DF1E090B16	15.5	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01		
	E(U,C,M,H)1P36B	A80DF2V090B16	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01		
	E(U,C,M,H)1P43B	A80DF2V090B16	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01		
	E(U,C,M,H)1P36C	A80DF2V110C20	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01		
	E(U,C,M,H)1P43C	A80DF2V110C20	16.0	12.0	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01		
	E(U,C,M,H)1P36A	A80UH1E045A12*	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01		
	E(U,C,M,H)1P36B	A80UH1E070B12*	15.5	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01		
	E(U,C,M,H)1P43B	A80UH1E070B12*	15.5	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01		
	E(U,C,M,H)1P36B	A80UH1E090B16*	15.5	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01		
	E(U,C,M,H)1P43B	A80UH1E090B16*	15.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01		
	E(U,C,M,H)1P36A	A80UH2V070A12	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01		
	E(U,C,M,H)1P36B	A80UH2V090B12	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01		
	E(U,C,M,H)1P43B	A80UH2V090B12	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01		

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Outdoor Model	Indoor Model	Variable Speed Furnace	SEER	EER	AHRI Rated Capacity	Sensible Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device	
								Outdoor		Indoor		Suction	Liquid		TXV
								Suction	Liquid	Suction	Liquid				
45CU16LT136P (Continued)	E(U,C,M,H)1P36B	A80UH2V090B16	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43B	A80UH2V090B16	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36C	A80UH2V090C20	16.0	12.3	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43C	A80UH2V090C20	15.5	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43C	A80UH2V110C20	16.0	12.0	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36B	A95DF1E070B16S	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43B	A95DF1E070B16S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36C	A95DF1E090C16S	15.5	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43C	A95DF1E090C16S	15.5	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36B	A95DF2V045B12S	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43B	A95DF2V045B12S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36B	A95DF2V070B16S	15.0	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43B	A95DF2V070B16S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36C	A95DF2V090C20S	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43C	A95DF2V090C20S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36C	A95DF2V110C20S	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43C	A95DF2V110C20S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36B	A95UH1E070B12S	16.0	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43B	A95UH1E070B12S	16.0	11.0	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36C	A95UH1E090C16S	15.5	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43C	A95UH1E090C16S	15.5	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36B	A95UH2V045B12S	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43B	A95UH2V045B12S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36B	A95UH2V070B12S	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43B	A95UH2V070B12S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36C	A95UH2V090C12S	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43C	A95UH2V090C12S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36C	A95UH2V090C16S	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43C	A95UH2V090C16S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36C	A95UH2V090C20S	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43C	A95UH2V090C20S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36C	A95UH2V110C16S	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43C	A95UH2V110C16S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36B	A96DFMV070B12	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43B	A96DFMV070B12	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36C	A96DFMV090C16	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43C	A96DFMV090C16	16.0	12.0	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36C	A96DFMV090C20	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43C	A96DFMV090C20	16.0	12.0	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36C	A96DFMV110C20	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43C	A96DFMV110C20	16.0	12.0	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36B	A96UHMV070B12	16.0	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43B	A96UHMV070B12	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36C	A96UHMV090C12	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43C	A96UHMV090C12	16.0	12.0	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36C	A96UHMV090C16	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P43C	A96UHMV090C16	16.0	12.0	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01	
	E(U,C,M,H)1P36C	A96UHMV110C20	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01	
E(U,C,M,H)1P43C	A96UHMV110C20	16.0	12.0	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01		
E(U,C,M,H)1P36B	LBR,LUF****V14	15.0	11.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01		
E(U,C,M,H)1P43B	LBR,LUF****V14	15.0	11.5	35,000	26,200	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01		
E(U,C,M,H)1P36B	LHF,LHR,LUF****V12	15.0	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01		
E(U,C,M,H)1P43B	LHF,LHR,LUF****V12	15.0	11.5	35,000	26,200	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01		
E(U,C,M,H)1P36B	LUF,LBF,LBR****V14	15.0	11.5	35,000	26,200	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV01		
E(U,C,M,H)1P43B	LUF,LBF,LBR****V14	14.5	11.0	35,000	26,200	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV01		
45CU16LT148P	BCS2M48V00NA1P		15.5	12.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C,H)1P62C	EFV16CC	15.0	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C,H)1P62D	EFV20DC	14.5	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A80DF1E110C20	15.0	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A80DF2V110C20	15.5	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A80UH1E090C20*	15.0	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A80UH1E110C20*	15.0	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
E(U,C,H)1P62C	A80UH2V090C20	15.0	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02		

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Outdoor Model	Indoor Model Evap. Coil or Air Handler <sup>3</sup>	Variable Speed Furnace	SEER	EER	AHRI Rated Capacity	Sensible Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device	
								Outdoor		Indoor		Suction	Liquid		TXV
								Suction	Liquid	Suction	Liquid				
45CU16LT148P (Continued)	E(U,C,H)1P62C	A80UH2V110C20	15.0	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C)1P62D	A80UH2V135D20	15.0	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A95DF2V090C20S	15.0	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A95DF2V110C20S	15.0	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A95UH1E110C20S	14.5	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A95UH2V090C16S	15.0	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A95UH2V090C20S	15.0	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A95UH2V110C16S	15.0	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A95UH2V110C20S	15.0	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C,H)1P62D	A95UH2V135D20S	15.0	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A96DFMV090C16	15.0	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A96DFMV090C20	15.0	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A96DFMV110C20	15.0	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A96UHMV090C16	15.0	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A96UHMV090C20	15.5	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
E(U,C,H)1P62C	A96UHMV110C20	15.5	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02		
E(U,C)1P62D	A96UHMV135D20	15.0	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02		
E(U,C)1P62C	LUF****V20		14.5	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02	
45CU16LT160P	BCS2M60V00NA1P		14.5	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
	E(U,C)1P60D	EFV20DC	14.6	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
	E(U,C)1P62D	EFV20DC	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A80DF1E110C20	15.0	11.5	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A80DF2V110C20	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A80UH1E090C20*	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A80UH1E110C20*	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A80UH2V090C20	14.5	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A80UH2V110C20	14.5	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
	E(U,C)1P62D	A80UH2V135D20	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A95DF1E110C20S	14.5	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A95DF2V090C20S	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A95DF2V110C20S	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A95UH1E110C20S	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A95UH2V090C20S	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A95UH2V110C20S	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
	E(U,C,H)1P62D	A95UH2V135D20S	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A96DFMV090C20	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A96DFMV110C20	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
	E(U,C,H)1P62C	A96UHMV090C20	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02	
E(U,C,H)1P62C	A96UHMV110C20	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02		
E(U,C)1P62D	A96UHMV135D20	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	A4TXV02		

**NOTE:**

<sup>1</sup> Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240

<sup>2</sup> Required to achieve AHRI rating. If NA (Not Applicable) is in the piston column, then TXV is required.

<sup>3</sup> A blower time delay relay is standard on all Allied Air Enterprises furnace and AH products.



## 4SCU14LE Condensing Units

14 SEER, R-410A



### Compressor

- High efficiency scroll compressor
- Grommet mounted compressor for quiet operation
- Internally protected against high temperature motor overload conditions
- Heavy duty compressor sound blanket for quiet operation

### Cabinet

- Full metal louvered jacket coil guard protection
- Controls located in corner post for easy installation and service
- Baked polyester paint finish over galvanized steel for maximum durability
- PVC coated wire fan discharge grille

### Coil

- Enhanced aluminum fins and copper tubing for higher efficiency and capacity
- Raised coil prevents debris from collecting in bottom of coil and causing loss of airflow

### Components

- Filter drier installed for system protection
- Charged for 15 feet of line set

### Warranties\*

- 10 year limited warranty on compressor
- 10 year limited warranty on all parts
- ARI certified
- UL listed

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not complete on time. See warranty certificate for complete details.

## Condensing Units

Prices Available Upon Request

Dimensions H x W x D (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
29-3/4 x 26-3/4 x 24-3/4	1	EA	63539	4SCU14LE118P 14 SEER 208/230V 1PH CONDENSER R410A
29-3/4 x 26-3/4 x 24-3/4	1	EA	63540	4SCU14LE124P 14 SEER 208/230V 1PH CONDENSER R410A
29-3/4 x 31-1/4 x 29-3/8	1	EA	63545	4SCU14LE130P 14 SEER 208/230V 1PH CONDENSER R410A
29-3/4 x 31-1/4 x 29-3/8	1	EA	63546	4SCU14LE136P 14 SEER 208/230V 1PH CONDENSER R410A
29-3/4 x 31-1/4 x 29-3/8	1	EA	63547	4SCU14LE142P 14 SEER 208/230V 1PH CONDENSER R410A
37-3/4 x 31-1/4 x 29-3/8	1	EA	63548	4SCU14LE148P 14 SEER 208/230V 1PH CONDENSER R410A
37-3/4 x 37-3/4 x 35-3/4	1	EA	63549	4SCU14LE160P 14 SEER 208/230V 1PH CONDENSER R410A
29-3/4 x 31-1/4 x 29-3/8	1	EA	84335	4SCU14LE141P-1 14 SEER 208/230V 1PH CONDENSER R410A
37-3/4 x 31-1/4 x 29-3/8	1	EA	84336	4SCU14LE147P-1 14 SEER 208/230V 1PH CONDENSER R410A

## Accessories

For Use with the Following Models	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
4SCU14LE118, 24, 30	1	EA	67835	A4TXV01-1 R-410A EXPANSION VALVE
4SCU14LE136, 42	1	EA	67836	A4TXV02-1 R-410A EXPANSION VALVE
4SCU14LE48, 60	1	EA	67839	H4TXV03-1 R-410A EXPANSION VALVE



# 4SCU14LE Condensing Unit Performance Ratings



Outdoor Model	Indoor Model	Variable Speed Furnace	SEER	EER	AHRI Rated Capacity	Sensible Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device				
								Evap. Coil or Air Handler <sup>3</sup>				Outdoor			Indoor		Suction	Liquid
								Suction	Liquid	Suction	Liquid	Suction	Liquid					
4SCU14LE118P	BCS2M18C00NA-1P+A4TXV01		14.0	12.0	18,000	13,500	600	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01				
	BCS2M24V00NA1P+A4TXV01		16.0	13.0	18,000	13,500	600	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01				
	E(U,C,M)1P24B+A4TXV01	EFV08BC	15.1	12.5	18,000	13,500	600	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01				
	E(U,C,M,H)1P23B+A4TXV01	EFV08BC	15.1	12.5	18,000	13,500	600	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01				
	E(U,M,H)1P29B+A4TXV01	EFV08BC	15.1	12.5	18,000	13,500	600	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01				
4SCU14LE124P	E(U,C,M)1P24B+A4TXV01	EFV08BC	15.1	12.5	23,200	17,600	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01				
	BCS2M24C00NA-1P+A4TXV01		14.0	12.0	23,800	18,100	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01				
	E(U,C,M)1P30B+A4TXV01	EFV08BC	15.1	12.5	23,800	18,100	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01				
	BCS2M24V00NA1P+A4TXV01		15.1	12.5	24,000	18,300	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01				
	E(U,C,M,H)1P23B+A4TXV01	EFV08BC	15.1	12.5	24,000	18,300	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01				
	E(U,C,M,H)1P36B+A4TXV01	EFV08BC	15.1	12.5	24,200	18,400	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01				
	E(U,M,H)1P29B+A4TXV01	EFV08BC	15.1	12.5	24,200	18,400	800	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01				
	E(U,C)1P30C+A4TXV01	EFV16CC	15.1	12.5	27,600	20,800	1000	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01				
	E(U,C,M)1P30B+A4TXV01	EFV12BC	15.0	12.5	27,600	20,800	1000	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01				
4SCU14LE130P	E(U,C,M,H)1P23B+A4TXV01	EFV12BC	15.0	12.0	27,600	20,800	1000	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01				
	BCS2M30C00NA-1P+A4TXV01		14.0	12.0	28,000	21,000	1000	3/4	3/8	7/8	3/8	3/4	3/8	A4TXV01				
	BCS2M36V00NA1P+A4TXV01		16.0	13.0	28,200	21,200	1000	3/4	3/8	7/8	3/8	3/4	3/8	A4TXV01				
	E(U,C,M,H)1P36B+A4TXV01	EFV12BC	15.1	12.5	28,200	21,200	1000	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01				
	E(U,C,M,H)1P36C+A4TXV01	EFV16CC	15.1	12.5	28,200	21,200	1000	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01				
	E(U,M,H)1P29B+A4TXV01	EFV12BC	15.1	12.5	28,200	21,200	1000	3/4	3/8	3/4	3/8	3/4	3/8	A4TXV01				
	BCS2M36C00NA-1P+A4TXV02		14.0	12.0	34,000	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02				
	BCS2M36V00NA1P+A4TXV02		15.1	12.5	34,000	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02				
	E(U,M,H)1P29B+A4TXV02	EFV12BC	15.0	12.5	34,000	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV02				
4SCU14LE136P	E(U,C,M,H)1P36B+A4TXV02	EFV12BC	15.0	12.5	34,400	26,100	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV02				
	E(U,C,M,H)1P36C+A4TXV02	EFV16CC	15.0	12.5	34,400	26,100	1200	7/8	3/8	3/4	3/8	7/8	3/8	A4TXV02				
	E(U,C,M,H)1P43C+A4TXV02	EFV16CC	15.1	12.5	34,400	26,100	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02				
	E(U,C,M,H)1P43B+A4TXV02	EFV12BC	15.0	12.5	34,800	26,400	1200	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02				
	BCS2M42C00NA-1P+A4TXV02		15.1	12.5	38,000	30,000	1400	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02				
	BCS2M42V00NA1P+A4TXV02		16.0	13.0	38,000	30,000	1400	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02				
4SCU14LE141P	E(U,C,H)1P49C+A4TXV02	EFV16CC	15.1	12.5	38,000	30,000	1400	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02				
	E(U,C,H)1P62C+A4TXV02	EFV16CC	15.1	12.5	38,000	30,000	1400	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02				
	BCS2M42C00NA-1P+A4TXV02		14.0	11.5	40,000	30,800	1400	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02				
	BCS2M42V00NA1P+A4TXV02		14.3	12.0	40,000	30,800	1400	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02				
4SCU14LE142P	E(U,C,H)1P49C+A4TXV02	EFV16CC	15.0	12.5	41,000	31,600	1400	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02				
	E(U,C,H)1P62C+A4TXV02	EFV16CC	15.0	12.5	41,000	31,600	1400	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02				
	BCS2M48C00NA-1P+A4TXV02		15.1	12.5	47,000	34,800	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02				
	BCS2M48V00NA1P+A4TXV02		16.0	13.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02				
4SCU14LE147P	E(U,C)1P62D+A4TXV02	EFV20DC	15.1	12.5	47,000	34,800	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02				
	E(U,C,H)1P49C+A4TXV02	EFV16CC	15.1	12.5	47,000	34,800	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02				
	E(U,C,H)1P62C+A4TXV02	EFV16CC	15.1	12.5	47,000	34,800	1600	7/8	3/8	7/8	3/8	7/8	3/8	A4TXV02				
	BCS2M48C00NA-1P+H4TXV03		14.0	12.0	48,000	36,500	1600	7/8	3/8	7/8	3/8	7/8	3/8	H4TXV03				
4SCU14LE148P	BCS2M48V00NA1P+H4TXV03		15.1	12.5	48,000	36,500	1600	7/8	3/8	7/8	3/8	7/8	3/8	H4TXV03				
	E(U,C,H)1P49C+H4TXV03	EFV16CC	14.5	12.0	48,000	36,500	1600	7/8	3/8	7/8	3/8	7/8	3/8	H4TXV03				
	E(U,C,H)1P62C+H4TXV03	EFV16CC	14.5	12.0	48,000	36,500	1600	7/8	3/8	7/8	3/8	7/8	3/8	H4TXV03				
	E(U,C,H)1P62D+H4TXV03	EFV20DC	14.5	12.0	48,000	36,500	1600	7/8	3/8	7/8	3/8	7/8	3/8	H4TXV03				
	E(U,C,H)1P49C+H4TXV03	EFV16CC	14.5	12.0	57,500	43,300	1800	7/8	3/8	7/8	3/8	7/8	3/8	H4TXV03				
4SCU14LE160P	BCS2M60C00NA-1P+H4TXV03		14.0	12.0	58,000	43,600	1800	7/8	3/8	7/8	3/8	7/8	3/8	H4TXV03				
	BCS2M60V00NA1P+H4TXV03		14.5	12.5	58,000	43,600	1800	7/8	3/8	7/8	3/8	7/8	3/8	H4TXV03				
	E(U,C,H)1P62C+H4TXV03	EFV16CC	14.5	12.0	58,500	44,000	1800	7/8	3/8	7/8	3/8	7/8	3/8	H4TXV03				

**NOTE:**

<sup>1</sup> Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240

<sup>2</sup> Required to achieve AHRI rating. If NA (Not Applicable) is in the piston column, then TXV is required.

<sup>3</sup> A blower time delay relay is standard on all Allied Air Enterprises furnace and AH products.



## 4AC13 Split System Condensing Units



13 SEER, R-410A



- High-quality condenser coil with copper tubing and enhanced louvered fin for maximum heat transfer capacity
- Top discharge directs hot air away from living area and shrubbery
- All units factory run tested
- Available with louvered panel coil protection option
- Easy access to electrical panels
- Corner mounted service valves for easy hook-up and service
- Liquid line filter drier shipped loose
- Charged for 15 feet of interconnecting tubing
- All units UL and ULC approved and AHRI listed

### Warranties\*

- 10 year limited warranty on compressor
- 10 year limited warranty on all parts

\*On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

### Condensing Units

Prices Available on Request

Cabinet Dimensions W x D x H (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
24-1/4 x 24-1/4 x 25	1	EA	84260	4AC13L18P 1.5 TON 208/230/1 R410 CONDENSER
	1	EA	84627	4AC13L18P-7 1.5 TON 208/230/1 R410 CONDENSER
24-1/4 x 24-1/4 x 25	1	EA	84261	4AC13L24P 2 TON 208/230/1 R410 CONDENSER
	1	EA	84628	4AC13L24P-7 2 TON 208/230/1 R410 CONDENSER
24-1/4 x 24-1/4 x 29	1	EA	84262	4AC13L30P 2.5 TON 208/230/1 R410 CONDENSER
24-1/4 x 24-1/4 x 29	1	EA	84630	4AC13L36P-7 3 TON 208/230/1 R410 CONDENSER (51W69)
28-1/4 x 28-1/4 x 29	1	EA	84264	4AC13L42P 3.5 TON 208/230/1 R410 CONDENSER
	1	EA	84631	4AC13L42P-7 3.5 TON 208/230/1 R410 CONDENSER
28-1/4 x 28-1/4 x 33	1	EA	84632	4AC13L48P-7 4 TON 208/230/1 R410 CONDENSER (92W01)
28-1/4 x 28-1/4 x 29	1	EA	84633	4AC13L60P-7 5 TON 208/230/1 R410 CONDENSER (92W02)

### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	61702	45F08 T6-1469 COMPRESSOR LOW AMBIENT CUT-OFF
1	EA	67835	A4TXV01-1 R-410A EXPANSION VALVE
1	EA	67836	A4TXV02-1 R-410A EXPANSION VALVE



# 4AC13 Condensing Unit Performance Ratings



Outdoor Model	Indoor Model Evap. Coil or Air Handler <sup>3</sup>	Variable Speed Furnace	SEER	EER	AHRI Rated Capacity	Sensible Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device	
								Outdoor		Indoor		Suction	Liquid		TXV
								Suction	Liquid	Suction	Liquid				
4AC13*18P-4	BCS2M18C****P		13.0	11.0	17,600	13,380	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	BCS2M24C****P		13.0	11.0	17,600	13,380	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	BCS2M24V****P		14.0	12.0	17,600	13,380	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,H,M,U)1P23A	A80DF1E045A12	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,H,M,U)1P29A	A80DF1E045A12	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,M,U)1P19A	A80DF1E045A12	14.0	11.5	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,M,U)1P24A	A80DF1E045A12	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,H,M,U)1P23B	A80DF1E070B12	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,H,M,U)1P29B	A80DF1E070B12	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,M,U)1P19B	A80DF1E070B12	14.0	11.5	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,M,U)1P24B	A80DF1E070B12	14.0	11.5	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,H,M,U)1P23A	A80UH1E045A12*	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,H,M,U)1P29A	A80UH1E045A12*	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,M,U)1P19A	A80UH1E045A12*	14.0	11.5	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,M,U)1P24A	A80UH1E045A12*	14.0	11.5	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,H,M,U)1P23B	A80UH1E070B12*	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,H,M,U)1P29B	A80UH1E070B12*	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,M,U)1P19B	A80UH1E070B12*	14.0	11.5	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,M,U)1P24B	A80UH1E070B12*	14.0	11.5	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,H,M,U)1P23A	A80UH2V070A12	14.0	12.0	17,600	13,380	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,H,M,U)1P29A	A80UH2V070A12	14.0	12.0	17,600	13,380	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,M,U)1P19A	A80UH2V070A12	13.5	11.5	17,600	13,380	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,M,U)1P24A	A80UH2V070A12	13.5	11.5	17,600	13,380	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,H,M,U)1P23B	A95DF1E045B12S	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,H,M,U)1P29B	A95DF1E045B12S	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,M,U)1P19B	A95DF1E045B12S	14.0	11.5	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,M,U)1P24B	A95DF1E045B12S	14.0	11.5	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,H,M,U)1P23B	A95DF2V045B12S	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,H,M,U)1P29B	A95DF2V045B12S	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,M,U)1P19B	A95DF2V045B12S	14.0	11.5	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,M,U)1P24B	A95DF2V045B12S	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,H,M,U)1P23B	A95DF2V070B16S	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,H,M,U)1P29B	A95DF2V070B16S	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,M,U)1P19B	A95DF2V070B16S	14.0	11.5	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,M,U)1P24B	A95DF2V070B16S	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,H,M,U)1P23B	A95UH1E045B12S	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,H,M,U)1P29B	A95UH1E045B12S	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,M,U)1P19B	A95UH1E045B12S	14.0	11.5	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,M,U)1P24B	A95UH1E045B12S	14.0	11.5	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
	E(C,H,M,U)1P23B	A95UH1E070B12S	14.0	11.5	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051	
E(C,H,M,U)1P29B	A95UH1E070B12S	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051		
E(C,M,U)1P19B	A95UH1E070B12S	14.0	11.5	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051		
E(C,M,U)1P24B	A95UH1E070B12S	14.0	11.5	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051		
E(C,H,M,U)1P23B	A95UH2V045B12S	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051		
E(C,H,M,U)1P29B	A95UH2V045B12S	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051		
E(C,M,U)1P19B	A95UH2V045B12S	14.0	11.5	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051		
E(C,M,U)1P24B	A95UH2V045B12S	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051		
E(C,H,M,U)1P23B	A95UH2V070B12S	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051		
E(C,H,M,U)1P29B	A95UH2V070B12S	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051		
E(C,M,U)1P19B	A95UH2V070B12S	14.0	11.5	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051		
E(C,M,U)1P24B	A95UH2V070B12S	14.0	12.0	18,000	13,680	650	3/4	3/8	3/4	3/8	3/4	3/8	0.051		
4AC13*24P-3	BCS2M24C****P		13.0	11.0	22,800	17,330	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
	BCS2M24V****P		14.0	12.0	22,800	17,330	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
	E(C,H,M,U)1P23A	A80DF1E045A12	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
	E(C,H,M,U)1P29A	A80DF1E045A12	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
	E(C,H,M,U)1P36A	A80DF1E045A12	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
	E(C,M,U)1P19A	A80DF1E045A12	13.5	11.5	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
	E(C,M,U)1P24A	A80DF1E045A12	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
	E(C,M,U)1P30A	A80DF1E045A12	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
	E(C,H,M,U)1P23B	A80DF1E070B12	13.5	11.5	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
	E(C,H,M,U)1P29B	A80DF1E070B12	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
	E(C,H,M,U)1P36B	A80DF1E070B12	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
	E(C,M,U)1P19B	A80DF1E070B12	13.5	11.5	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	

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Outdoor Model	Indoor Model	Variable Speed Furnace	SEER	EER	AHRI Rated Capacity	Sensible Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device
								Outdoor		Indoor		Suction	Liquid	
	Evap. Coil or Air Handler <sup>2</sup>							Suction	Liquid	Suction	Liquid			
4AC13*24P-3 (Continued)	E(C,M,U)1P24B	A80DF1E070B12	13.5	11.5	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P30B	A80DF1E070B12	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P23A	A80UH1E045A12*	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P29A	A80UH1E045A12*	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P36A	A80UH1E045A12*	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P19A	A80UH1E045A12*	13.5	11.5	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P24A	A80UH1E045A12*	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P30A	A80UH1E045A12*	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P23B	A80UH1E070B12*	13.5	11.5	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P29B	A80UH1E070B12*	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P36B	A80UH1E070B12*	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P19B	A80UH1E070B12*	13.5	11.5	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P24B	A80UH1E070B12*	13.5	11.5	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P30B	A80UH1E070B12*	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P23A	A80UH2V070A12	14.0	12.0	22,800	17,330	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P29A	A80UH2V070A12	14.0	12.0	22,800	17,330	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P36A	A80UH2V070A12	14.0	12.0	22,800	17,330	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P19A	A80UH2V070A12	14.0	11.5	22,600	17,180	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P24A	A80UH2V070A12	14.0	12.0	22,800	17,330	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P30A	A80UH2V070A12	14.0	12.0	22,800	17,330	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P23B	A95DF1E045B12S	14.0	12.0	22,800	17,330	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P29B	A95DF1E045B12S	14.0	12.0	22,800	17,330	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P36B	A95DF1E045B12S	14.0	12.0	22,800	17,330	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P19B	A95DF1E045B12S	14.0	12.0	22,800	17,330	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P24B	A95DF1E045B12S	14.0	12.0	22,800	17,330	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P30B	A95DF1E045B12S	14.0	12.0	22,800	17,330	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P23B	A95DF2V045B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P29B	A95DF2V045B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P36B	A95DF2V045B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P19B	A95DF2V045B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P24B	A95DF2V045B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P30B	A95DF2V045B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P23B	A95DF2V070B16S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P29B	A95DF2V070B16S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P36B	A95DF2V070B16S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P19B	A95DF2V070B16S	13.5	11.5	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P24B	A95DF2V070B16S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P30B	A95DF2V070B16S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P36C	A95DF2V090C20S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P36C	A95DF2V110C20S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P23B	A95UH1E045B12S	14.0	12.0	22,800	17,330	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P29B	A95UH1E045B12S	14.0	12.0	22,800	17,330	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P36B	A95UH1E045B12S	14.0	12.0	22,800	17,330	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P19B	A95UH1E045B12S	14.0	12.0	22,800	17,330	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P24B	A95UH1E045B12S	14.0	12.0	22,800	17,330	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P30B	A95UH1E045B12S	14.0	12.0	22,800	17,330	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P23B	A95UH1E070B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P29B	A95UH1E070B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P36B	A95UH1E070B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,M,U)1P19B	A95UH1E070B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
E(C,M,U)1P24B	A95UH1E070B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
E(C,M,U)1P30B	A95UH1E070B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
E(C,H,M,U)1P23B	A95UH2V045B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
E(C,H,M,U)1P29B	A95UH2V045B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
E(C,H,M,U)1P36B	A95UH2V045B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
E(C,M,U)1P19B	A95UH2V045B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
E(C,M,U)1P24B	A95UH2V045B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
E(C,M,U)1P30B	A95UH2V045B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
E(C,H,M,U)1P23B	A95UH2V070B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
E(C,H,M,U)1P29B	A95UH2V070B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
E(C,H,M,U)1P36B	A95UH2V070B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
E(C,M,U)1P19B	A95UH2V070B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
E(C,M,U)1P24B	A95UH2V070B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
E(C,M,U)1P30B	A95UH2V070B12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	
E(C,H,M,U)1P36C	A95UH2V090C12S	14.0	12.0	23,000	17,480	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057	

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Outdoor Model	Indoor Model Evap. Coil or Air Handler <sup>3</sup>	Variable Speed Furnace	SEER	EER	AHRI Rated Capacity	Sensible Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device TXV
								Outdoor		Indoor		Suction	Liquid	
								Suction	Liquid	Suction	Liquid			
4AC13*30P-3	BCS2M30C****P		13.0	11.0	28,000	21,000	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	BCS2M36C****P		13.0	11.0	28,000	21,000	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	BCS2M36V****P		14.0	12.0	28,000	21,000	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P23A	A80DF1E045A12	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P29A	A80DF1E045A12	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P36A	A80DF1E045A12	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,M,U)1P30A	A80DF1E045A12	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P23B	A80DF1E070B12	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P29B	A80DF1E070B12	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P36B	A80DF1E070B12	14.0	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P43B	A80DF1E070B12	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,M,U)1P30B	A80DF1E070B12	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P23B	A80DF1E090B16	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P29B	A80DF1E090B16	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P36B	A80DF1E090B16	14.0	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P43B	A80DF1E090B16	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,M,U)1P30B	A80DF1E090B16	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P23A	A80UH1E045A12*	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P29A	A80UH1E045A12*	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P36A	A80UH1E045A12*	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,M,U)1P30A	A80UH1E045A12*	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P23B	A80UH1E070B12*	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P29B	A80UH1E070B12*	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P36B	A80UH1E070B12*	14.0	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P43B	A80UH1E070B12*	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,M,U)1P30B	A80UH1E070B12*	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P23B	A80UH1E090B16*	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P29B	A80UH1E090B16*	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P36B	A80UH1E090B16*	14.0	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P43B	A80UH1E090B16*	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,M,U)1P30B	A80UH1E090B16*	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P23A	A80UH2V070A12	13.5	11.5	28,000	21,000	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P29A	A80UH2V070A12	13.5	11.5	28,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P36A	A80UH2V070A12	13.5	11.5	28,000	21,000	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,M,U)1P30A	A80UH2V070A12	13.5	11.5	28,000	21,000	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P23B	A95DF1E045B12S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P29B	A95DF1E045B12S	13.5	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P36B	A95DF1E045B12S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P43B	A95DF1E045B12S	13.5	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,M,U)1P30B	A95DF1E045B12S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P23B	A95DF1E070B16S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P29B	A95DF1E070B16S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P36B	A95DF1E070B16S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P43B	A95DF1E070B16S	13.5	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,M,U)1P30B	A95DF1E070B16S	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P36C	A95DF1E090C16S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P43C	A95DF1E090C16S	13.5	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,M,U)1P30C	A95DF1E090C16S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P23B	A95DF2V045B12S	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P29B	A95DF2V045B12S	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
E(C,H,M,U)1P36B	A95DF2V045B12S	14.0	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
E(C,H,M,U)1P43B	A95DF2V045B12S	13.5	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
E(C,M,U)1P30B	A95DF2V045B12S	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
E(C,H,M,U)1P23B	A95DF2V070B16S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
E(C,H,M,U)1P29B	A95DF2V070B16S	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
E(C,H,M,U)1P36B	A95DF2V070B16S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
E(C,H,M,U)1P43B	A95DF2V070B16S	13.5	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
E(C,M,U)1P30B	A95DF2V070B16S	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
E(C,H,M,U)1P36C	A95DF2V090C20S	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
E(C,H,M,U)1P43C	A95DF2V090C20S	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
E(C,M,U)1P30C	A95DF2V090C20S	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	

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Outdoor Model	Indoor Model	Variable Speed Furnace	SEER	EER	AHRI Rated Capacity	Sensible Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device	
								Outdoor		Indoor		Suction	Liquid		TXV
	Evap. Coil or Air Handler <sup>2</sup>	Suction						Liquid	Suction	Liquid					
4AC13*30P-3 (Continued)	E(C,H,M,U)1P36C	A95DF2V110C20S	14.0	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P43C	A95DF2V110C20S	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,M,U)1P30C	A95DF2V110C20S	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P23B	A95UH1E045B12S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P29B	A95UH1E045B12S	13.5	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P36B	A95UH1E045B12S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P43B	A95UH1E045B12S	13.5	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,M,U)1P30B	A95UH1E045B12S	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P23B	A95UH1E070B12S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P29B	A95UH1E070B12S	13.5	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P36B	A95UH1E070B12S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P43B	A95UH1E070B12S	13.5	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,M,U)1P30B	A95UH1E070B12S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P36C	A95UH1E090C16S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P43C	A95UH1E090C16S	13.5	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,M,U)1P30C	A95UH1E090C16S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P23B	A95UH2V045B12S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P29B	A95UH2V045B12S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P36B	A95UH2V045B12S	13.5	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P43B	A95UH2V045B12S	13.5	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,M,U)1P30B	A95UH2V045B12S	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P23B	A95UH2V070B12S	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P29B	A95UH2V070B12S	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P36B	A95UH2V070B12S	14.0	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P43B	A95UH2V070B12S	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,M,U)1P30B	A95UH2V070B12S	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P36C	A95UH2V090C12S	14.0	11.5	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,H,M,U)1P43C	A95UH2V090C12S	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	E(C,M,U)1P30C	A95UH2V090C12S	14.0	12.0	29,000	21,750	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065	
	4AC13*36P-7	E*1P36B, C+TDR		13.00	11.00	34,000	25000	1200	3/4	3/8	7/8	3/8	3/4	3/8	0.072
		E*1P43B, C+TDR		13.00	11.00	34,000	25000	1200	3/4	3/8	7/8	3/8	3/4	3/8	0.072
E*1P50C+TDR			13.00	11.00	34,000	25000	1200	3/4	3/8	7/8	3/8	3/4	3/8	0.072	
4AC13*42P-3	BCS2M42C****P		13.0	11.0	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	BCS2M42V****P		13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	BCS2M48C****P		13.0	11.0	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	BCS2M48V****P		13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,M,U)1P43B	A80DF1E090B16	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,M,U)1P43C	A80DF1E110C20	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,U)1P49C	A80DF1E110C20	13.5	11.0	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,M,U)1P50C	A80DF1E110C20	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,M,U)1P43B	A80UH1E090B16*	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,M,U)1P43C	A80UH1E090C20*	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,U)1P49C	A80UH1E090C20*	13.5	11.0	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,M,U)1P50C	A80UH1E090C20*	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,M,U)1P43C	A80UH1E110C20*	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,U)1P49C	A80UH1E110C20*	13.5	11.0	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,M,U)1P50C	A80UH1E110C20*	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,U)1P49C	A80UH2V110C20	13.5	11.0	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,M,U)1P50C	A80UH2V110C20	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,M,U)1P43B	A95DF1E070B16S	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,M,U)1P43C	A95DF1E090C16S	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,U)1P49C	A95DF1E090C16S	13.5	11.0	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,M,U)1P50C	A95DF1E090C16S	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,M,U)1P43C	A95DF1E110C20S	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,U)1P49C	A95DF1E110C20S	13.5	11.0	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,M,U)1P50C	A95DF1E110C20S	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,M,U)1P43C	A95DF2V090C20S	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,U)1P49C	A95DF2V090C20S	13.5	11.0	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,M,U)1P50C	A95DF2V090C20S	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,M,U)1P43C	A95DF2V110C20S	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,U)1P49C	A95DF2V110C20S	13.5	11.0	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,M,U)1P50C	A95DF2V110C20S	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,M,U)1P43C	A95UH1E090C16S	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,U)1P49C	A95UH1E090C16S	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,M,U)1P50C	A95UH1E090C16S	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,M,U)1P43C	A95UH1E110C20S	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,U)1P49C	A95UH1E110C20S	13.5	11.0	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,M,U)1P50C	A95UH1E110C20S	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	

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**Continued from the Previous Page**

Outdoor Model	Indoor Model	Variable Speed Furnace Evap. Coil or Air Handler <sup>3</sup>	SEER	EER	AHRI Rated Capacity	Sensible Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device	
								Outdoor		Indoor		Suction	Liquid		TXV
								Suction	Liquid	Suction	Liquid				
4AC13*42P-3 (Continued)	E(C,H,M,U)1P43C	A95UH2V090C20S	13.5	11.5	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
	E(C,H,U)1P49C	A95UH2V090C20S	13.5	11.0	40,000	29,200	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076	
4AC13*48P-7	E*1P48C+TDR		13.00	11.00	47,000	34300	1600	7/8	3/8	7/8	3/8	7/8	3/8	0.082	
	E*1P49C+TDR		13.00	11.00	47,000	34300	1600	7/8	3/8	7/8	3/8	7/8	3/8	0.082	
	E*1P50C+TDR		13.00	11.00	47,000	34300	1600	7/8	3/8	7/8	3/8	7/8	3/8	0.082	
	E*1P60D+TDR		13.00	11.00	47,000	34300	1600	7/8	3/8	7/8	3/8	7/8	3/8	0.082	
	E*1P62C+TDR		13.00	11.00	47,000	34300	1600	7/8	3/8	7/8	3/8	7/8	3/8	0.082	
	E*1P62D+TDR		13.00	11.00	47,000	34300	1600	7/8	3/8	7/8	3/8	7/8	3/8	0.082	
4AC13*60P-7	E*1P49C+TDR		13.00	11.00	57,000	41000	1800	7/8	3/8	7/8	3/8	7/8	3/8	0.09	
	E*1P60D+TDR		13.00	11.00	57,000	41000	1800	7/8	3/8	7/8	3/8	7/8	3/8	0.09	
	E*1P62C+TDR		13.00	11.00	57,000	41000	1800	7/8	3/8	7/8	3/8	7/8	3/8	0.09	
	E*1P62D+TDR		13.00	11.00	57,000	41000	1800	7/8	3/8	7/8	3/8	7/8	3/8	0.09	

**NOTE:**

<sup>1</sup> Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240

<sup>2</sup> Required to achieve AHRI rating. If NA (Not Applicable) is in the piston column, then TXV is required.

<sup>3</sup> A blower time delay relay is standard on all Allied Air Enterprises furnace and AH products.



## 4SCU13LE Condensing Units

13 SEER, R-410A, 1 & 3 Phase

### Compressor

- High efficiency scroll compressor.
- R-410A refrigerant.
- Grommet mounted compressor for quiet operation.
- Internally protected against high temperature motor overload conditions.
- Heavy-duty compressor sound blanket.

### Cabinet

- Full metal louvered jacket coil guard protection.
- Controls located in corner post for easy installation and service.
- Rounded corners for safety and attractive, clean appearance
- Baked polyester paint finish over galvanized steel for maximum durability.
- PVC-coated wire fan discharge grille
- External guage ports for easy service.

### Coils

- Enhanced aluminum fins and copper tubing for high efficiency and capacity
- Raised coil prevents debris from collecting in bottom of coil and causing loss of airflow

### Components

- Filter drier installed for system protection.
- Indoor coil orifice shipped with outdoor unit for optimum efficiency and capacity
- Charged for 15 feet of line set

### Warranty

- 10 year limited warranty on 1-phase compressors\*
- 5 year limited warranty on 3-phase compressors
- 10 year limited warranty on 1-phase parts\*
- 1 year limited warranty on 3-phase parts
- U.L. Listed

\*On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

### 1-Phase Condensing Units

Prices Available on Request

Dimensions H x W x D (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
25-3/4 x 24-3/4 x 26-3/4	1	EA	63921	4SCU13LE118P-1 13 SEER 208/230V 1PH R-410A ENHANCED CONDENSER
25-3/4 x 24-3/4 x 26-3/4	1	EA	84040	4SCU13LE118P-4 13 SEER 208/230V 1PH R-410A ENHANCED CONDENSER
25-3/4 x 24-3/4 x 26-3/4	1	EA	63922	4SCU13LE124P-1 13 SEER 208/230V 1PH R-410A ENHANCED CONDENSER
25-3/4 x 24-3/4 x 26-3/4	1	EA	84041	4SCU13LE124P-4 13 SEER 208/230V 1PH R-410A ENHANCED CONDENSER
29-3/4 x 24-3/4 x 26-3/4	1	EA	63926	4SCU13LE130P-1 13 SEER 208/230V 1PH R-410A ENHANCED CONDENSER
29-3/4 x 24-3/4 x 26-3/4	1	EA	84042	4SCU13LE130P-4 13 SEER 208/230V 1PH R-410A ENHANCED CONDENSER
29-3/4 x 24-3/4 x 26-3/4	1	EA	63927	4SCU13LE136P-1 13 SEER 208/230V 1PH R-410A ENHANCED CONDENSER
29-3/4 x 24-3/4 x 26-3/4	1	EA	84043	4SCU13LE136P-4 13 SEER 208/230V 1PH R-410A ENHANCED CONDENSER
29-3/4 x 29-3/8 x 31-1/4	1	EA	63929	4SCU13LE142P-1 13 SEER 208/230V 1PH R-410A ENHANCED CONDENSER
29-3/4 x 29-3/8 x 31-1/4	1	EA	84047	4SCU13LE142P-4 13 SEER 208/230V 1PH R-410A ENHANCED CONDENSER
37-3/4 x 29-3/8 x 31-1/4	1	EA	63931	4SCU13LE148P-1 13 SEER 208/230V 1PH R-410A ENHANCED CONDENSER
33-3/4 x 29-3/8 x 31-1/4	1	EA	84048	4SCU13LE148P-4 13 SEER 208/230V 1PH R-410A ENHANCED CONDENSER
33-3/4 x 29-3/8 x 31-1/4	1	EA	63933	4SCU13LE160P-1 13 SEER 208/230V 1PH R-410A ENHANCED CONDENSER
29-3/4 x 29-3/8 x 31-1/4	1	EA	84049	4SCU13LE160P-4 13 SEER 208/230V 1PH R-410A ENHANCED CONDENSER

### 3-Phase Condensing Units

29-3/4 x 26-3/4 x 24-3/4	1	EA	84204	4SCU13LC136T 3T 208/230V 3PH R410 CONDENSER
37-3/4 x 31-1/4 x 29-3/8	1	EA	84205	4SCU13LC148T 4T 208/230V 3PH R410A CONDENSER
33-3/4 x 31-1/4 x 29-3/8	1	EA	84206	4SCU13LC160T 5T 208/230V 3PH R410A CONDENSER
29-3/4 x 26-3/4 x 24-3/4	1	EA	84207	4SCU13LC136F 3T 460V 3PH R410A CONDENSER
37-3/4 x 31-1/4 x 29-3/8	1	EA	84208	4SCU13LC148F 4T 460V 3PH R410A CONDENSER
33-3/4 x 31-1/4 x 29-3/8	1	EA	84209	4SCU13LC160F 5T 460V 3PH R410A CONDENSER

### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	61692	34M72 LOW AMBIENT KIT
1	EA	67835	A4TXV01-1 R-410A EXPANSION VALVE
1	EA	67836	A4TXV02-1 R-410A EXPANSION VALVE
1	EA	67838	H4TXV02-1 R-410A EXPANSION VALVE
1	EA	67839	H4TXV03-1 R-410A EXPANSION VALVE



# 4SCU13LE Condensing Unit Performance Ratings



Outdoor Model	Indoor Model Evap. Coil or Air Handler <sup>3</sup>	Variable Speed Furnace	SEER	EER	AHRI <sup>1</sup> Rated Capacity	Sensible Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device <sup>2</sup>
								Outdoor		Indoor		Suction	Liquid	
								Suction	Liquid	Suction	Liquid			
4SCU13**118-2,-3	BCS2M18C00NA-1P		13.0	11.0	17,500	12,500	600	3/4	3/8	3/4	3/8	3/4	3/8	0.051
	BCS2M24V00NA1P		14.0	12.0	17,900	12,800	600	3/4	3/8	3/4	3/8	3/4	3/8	0.051
	E(U,C,M)1P18B	EFV08BC	14.0	11.0	17,400	12,400	600	3/4	3/8	3/4	3/8	3/4	3/8	0.051
	E(U,C,M)1P24B	EFV08BC	14.0	11.5	17,600	12,600	600	3/4	3/8	3/4	3/8	3/4	3/8	0.051
4SCU13LE118P-4	E(C,H,M,U)1P23(A,B)+TDR		13.0	11.0	17,600	12,800	650	5/8	3/8	3/4	3/8	5/8	3/8 or 1/4	0.053
	E(C,M,U)1P24(A,B)+TDR		13.0	11.0	17,600	12,800	650	5/8	3/8	3/4	3/8	5/8	3/8 or 1/4	0.053
	E(C,H,M,U)1P29A+TDR		13.0	11.0	17,600	12,800	650	5/8	3/8	3/4	3/8	5/8	3/8 or 1/4	0.053
4SCU13**124-2,-3	BCS2M24C00NA-1P		13.0	11.5	23,600	17,400	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	BCS2M24V00NA1P		14.0	12.0	23,800	17,500	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(U,C,M)1P24B	EFV08BC	14.0	12.0	23,400	17,300	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
4SCU13LE124P-4	E(U,C,M,H)1P36B	EFV08BC	14.0	12.0	23,800	17,500	800	3/4	3/8	3/4	3/8	3/4	3/8	0.057
	E(C,H,M,U)1P23(A,B)+TDR		13.0	11.0	22,800	16,800	800	5/8	3/8	3/4	3/8	5/8	3/8 or 1/4	0.057
	E(C,M,U)1P24(A,B)+TDR		13.0	11.0	22,800	16,800	800	5/8	3/8	3/4	3/8	5/8	3/8 or 1/4	0.057
	E(C,H,M,U)1P29A+TDR		13.0	11.0	22,800	16,800	800	5/8	3/8	3/4	3/8	5/8	3/8 or 1/4	0.057
	E(C,M,U)1P30(A,B)+TDR		13.0	11.0	22,800	16,800	800	5/8	3/8	3/4	3/8	5/8	3/8 or 1/4	0.057
4SCU13**130-2,-3	E(C,H,M,U)1P36(A,B,C)+TDR		13.0	11.0	22,800	16,800	800	5/8	3/8	3/4	3/8	5/8	3/8 or 1/4	0.057
	BCS2M30C00NA-1P		13.0	11.5	28,600	20,600	1000	3/4	3/8	7/8	3/8	3/4	3/8	0.065
	BCS2M36V00NA1P		14.0	12.0	29,000	21,000	1000	3/4	3/8	7/8	3/8	3/4	3/8	0.065
	E(U,C,M)1P30B	EFV12BC	13.5	11.5	28,600	20,600	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
4SCU13LE130P-4	E(U,C,M,H)1P36B	EFV12BC	14.0	11.5	29,000	21,000	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.065
	E(C,H,M,U)1P23(A,B)+TDR		13.0	11.0	28,000	20,400	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.063
	E(C,M,U)1P24(A,B)+TDR		13.0	11.0	28,000	20,400	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.063
	E(C,H,M,U)1P29A+TDR		13.0	11.0	28,000	20,400	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.063
	E(C,M,U)1P30(A,B)+TDR		13.0	11.0	28,000	20,400	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.063
4SCU13**136-2,-3	E(C,H,M,U)1P36(A,B,C)+TDR		13.0	11.0	28,000	20,400	1000	3/4	3/8	3/4	3/8	3/4	3/8	0.063
	BCS2M36C00NA-1P		13.0	11.0	35,000	23,300	1200	7/8	3/8	7/8	3/8	7/8	3/8	0.072
	BCS2M36V00NA1P		14.0	11.5	35,200	26,500	1200	7/8	3/8	7/8	3/8	7/8	3/8	0.072
	E(U,C,M)1P50C	EFV16CC	14.0	11.5	35,400	26,600	1200	7/8	3/8	7/8	3/8	7/8	3/8	0.072
4SCU13LE136P-4	E(U,C,M,H)1P36B	EFV12BC	13.5	11.5	35,200	26,500	1200	7/8	3/8	3/4	3/8	7/8	3/8	0.072
	E(C,H,M,U)1P36(B,C)+TDR		13.0	11.0	34,000	25,000	1200	3/4	3/8	7/8	3/8	3/4	3/8	0.072
	E(C,H,M,U)1P43(B,C)+TDR		13.0	11.0	34,000	25,000	1200	3/4	3/8	7/8	3/8	3/4	3/8	0.072
	E(C,H,M,U)1P50C+TDR		13.0	11.0	34,000	25,000	1200	3/4	3/8	7/8	3/8	3/4	3/8	0.072
4SCU13**142-2,-3	BCS2M42C00NA-1P		13.0	11.0	40,500	30,400	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076
	BCS2M42V00NA1P		13.5	11.0	41,000	30,800	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076
	E(U,C,M)1P50C	EFV16CC	13.5	11.0	41,000	30,800	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076
	E(U,C,M,H)1P43C	EFV16CC	13.5	11.0	41,000	30,800	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.076
4SCU13LE142P-4	E(C,H,M,U)1P43C+TDR		13.0	11.0	40,000	29,200	1400	3/4	3/8	7/8	3/8	3/4	3/8	0.075
	E(C,H,U)1P49C+TDR		13.0	11.0	40,000	29,200	1400	3/4	3/8	7/8	3/8	3/4	3/8	0.075
	E(C,H,M,U)1P50C+TDR		13.0	11.0	40,000	29,200	1400	3/4	3/8	7/8	3/8	3/4	3/8	0.075
4SCU13**148-2,-3	BCS2M48C00NA-1P		13.0	11.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	7/8	3/8	0.081
	BCS2M48V00NA1P		14.0	11.5	47,500	35,200	1600	7/8	3/8	7/8	3/8	7/8	3/8	0.081
	E(U,C)1P62D	EFV20DC	13.5	11.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	7/8	3/8	0.081
4SCU13LE148P-4	E(C,H,U)1P49C+TDR		13.0	11.0	47,000	34,300	1600	7/8	3/8	7/8	3/8	7/8	3/8	0.082
	E(C,H,U)1P62C+TDR		13.0	11.0	47,000	34,300	1600	7/8	3/8	7/8	3/8	7/8	3/8	0.082
	E(C,H,U)1P62D+TDR		13.0	11.0	47,000	34,300	1600	7/8	3/8	7/8	3/8	7/8	3/8	0.082
4SCU13**160-2,-3	BCS2M60C00NA-1P		13.0	11.0	58,000	41,200	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	0.090
	BCS2M60V00NA1P		13.5	11.5	58,500	41,200	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	0.090
4SCU13LE160P-4	E(C,H,U)1P49C+TDR		13.0	11.0	57,000	41,000	1800	7/8	3/8	7/8	3/8	7/8	3/8	0.090
	E(C,H,U)1P62C+TDR		13.0	11.0	57,000	41,000	1800	7/8	3/8	7/8	3/8	7/8	3/8	0.090
	E(C,H,U)1P62D+TDR		13.0	11.0	57,000	41,000	1800	7/8	3/8	7/8	3/8	7/8	3/8	0.090

NOTE:

<sup>1</sup> Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240

<sup>2</sup> Required to achieve AHRI rating. If NA (Not Applicable) is in the piston column, then TXV is required.

<sup>3</sup> A blower time delay relay is standard on all Allied Air Enterprises furnace and AH products.



# Nitrogen Charged Split System Condensing Units



13 SEER, 1 & 3 Phase



- Nitrogen charged for replacement of R-22 components only
- High-quality condenser coil with copper tubing and enhanced louvered fin for maximum heat transfer capacity
- Top discharge directs hot air away from living area and shrubbery
- All units factory run tested
- Available with wire guard coil protection
- Easy access to electrical panels
- Corner mounted service valves for easy hook-up and service
- All units UL and ULC approved
- 5-year limited warranty on compressor
- 5-year limited warranty on all parts

## Cooling Performance with Evaporator Coils

Outdoor Model	Indoor Model Evaporator Coil	SEER	EER	Rated Capacity BTUH	Sensible Capacity BTUH	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device	
							Outdoor		Indoor		Suction	Liquid	Piston	TXV
							Suction	Liquid	Suction	Liquid				
13ACDL018	E(U,C,M,H)1P18A,B+TDR	13.0	11.0	17,700	13,600	600	3/4	3/8	3/4	3/8	3/4	3/8	0.055	A2TXV01
13ACDL024	E(U,C,M,H)1P24A,B+TDR	13.0	11.0	23,400	18,700	800	3/4	3/8	3/4	3/8	3/4	3/8	0.062	A2TXV01
13ACDL030	E(U,C,M,H)1P24A,B+TDR	13.0	11.0	28,000	21,300	900	3/4	3/8	3/4	3/8	3/4	3/8	0.067	A2TXV01
13ACDL036	E(U,C,M,H)1P36B,C+TDR	13.0	11.0	35,000	27,700	1200	7/8	3/8	3/4	3/8	7/8	3/8	0.076	A2TXV01
13ACDL042	E(U,C,M,H)1P43B,C+TDR	13.0	11.0	41,500	32,400	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.080	A2TXV02
13ACDL048	E(U,C,M,H)1P50C+TDR	13.0	11.0	45,500	35,500	1600	7/8	3/8	7/8	3/8	7/8	3/8	0.089	A2TXV02
13ACDL060	E(U,C,M,H)1P150C+TDR	13.0	11.0	58,000	44,100	1750	1-1/8	3/8	7/8	3/8	1-1/8	3/8	0.099	H2TXV03
25CU13LC136T	E(U,C,M,H)1P36B,C	13.0	11.0	34,800	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	0.076	A2TXV01
25CU13LC148T	E(U,C,M,H)1P50C	13.0	11.0	45,500	34,100	1600	7/8	3/8	7/8	3/8	7/8	3/8	0.091	A2TXV02
25CU13LC160T	E(U,C,M,H)1P49C	13.0	11.0	58,000	44,100	1800	7/8	3/8	7/8	3/8	1-1/8	3/8	0.099	H2TXV03

## 1 Phase Condensing Units

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
25 x 24-1/4 x 24-1/4	1	EA	84050	13ACDL018 1.5 TON NITROGEN CHARGED R22 LOUVERED CONDENSER 90W88
25 x 24-1/4 x 24-1/4	1	EA	84051	13ACDL024 2 TON NITROGEN CHARGED R22 LOUVERED CONDENSER 90W89
33 x 24-1/4 x 24-1/4	1	EA	84052	13ACDL030 2.5 TON NITROGEN CHARGED R22 CONDENSER 90W90
33 x 24-1/4 x 24-1/4	1	EA	84053	13ACDL036 3 TON NITROGEN CHARGED R22 CONDENSER 90W91
29 x 28-1/4 x 28-1/4	1	EA	84054	13ACDL042 3.5 TON NITROGEN CHARGED R22 CONDENSER 90W92
37 x 28-1/4 x 28-1/4	1	EA	84055	13ACDL048 4 TON NITROGEN CHARGED R22 CONDENSER 90W93
33 x 28-1/4 x 28-1/4	1	EA	84056	13ACDL060 5 TON NITROGEN CHARGED R22 CONDENSER 90W94

## 3 Phase Condensing Units

Cabinet Dimensions W x D x H (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
24-3/4 x 26-3/4 x 33-3/4	1	EA	84064	25CU13LC136T 3T 208/230V 3PH NITROGEN R22 CONDENSER 1.332041
29-3/8 x 31-1/4 x 37-3/4	1	EA	84065	25CU13LC148T 4T 208/230V 3PH NITROGEN R22 CONDENSER 1.332042
29-3/8 x 33-3/4 x 33-3/4	1	EA	84066	25CU13LC160T 5T 208/230V 3PH NITROGEN R22 CONDENSER 1.332043

## Accessories

For Models	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1-1/2, 2, 2-1/2 & 3 Ton Units	1	EA	61148	A2TXV01 R22 EXPANSION VALVE
3-1/2 & 4 Ton Units	1	EA	61151	A2TXV02 R22 EXPANSION VALVE
5 Ton Units	1	EA	61157	H2TXV03 R22 EXPANSION VALVE
ALL 13ACDL'S & 25CU13'S	1	EA	61702	45F08 COMPRESSOR LOW AMBIENT CUT-OFF
ALL 13ACDL'S & 25CU13'S	1	EA	67388	24H77 LOW AMBIENT KIT F/SCU13
ALL 13ACDL'S & 25CU13'S	1	EA	86920	93G35 FREEZE THERMOSTAT



## R-22 Expansion Valves



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	61148	A2TXV01 R22 EXPANSION VALVE	—
1	EA	61151	A2TXV02 R22 EXPANSION VALVE	—
1	EA	61155	H2TXV01 R22 EXPANSION VALVE	—
1	EA	61156	H2TXV02 R22 EXPANSION VALVE	—
1	EA	61157	H2TXV03 R22 EXPANSION VALVE	—



## Model Number Guide, Coils

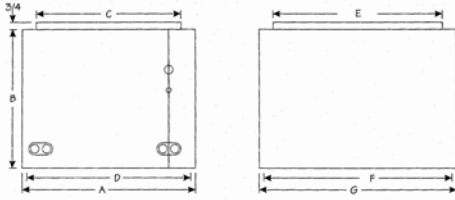


<b>E</b>	<b>U</b>	<b>1P</b>	<b>18</b>	<b>A</b>	<b>N</b>	<b>1</b>
E = Evaporator Coil	U = Uncased C = Cased M = Multipositional H = Horizontal	Expansion Device 1P = Piston	Nominal Capacity 18 = 1.5 ton 24 = 2.0 ton 30 = 2.5 ton 36 = 3.0 ton 48 = 4.0 ton 49 = 4.0 ton 50 = 4.0 ton 60 = 5.0 ton 62 = 5.0 ton	Gas Furnace Cabinet Width A = 14.5 B = 17.5 C = 21 D = 24.5	Color N = Not Applicable G = Gray M = Embossed Unpainted	Series



## EC1P Cased Coils

### Upflow and Counterflow



- Microban® antimicrobial additive in the drain pan to resist mold and mildew growth
- Insulated steel coil case with high quality painted finish
- Interlocking door assemblies and snug line seal grommets to minimize air leakage
- External cabinet mounted distributor body designed for easy changing of orifice sizes and fast TXV connections
- Two dual drain connections on front of coil for installation flexibility of drain lines around furnace vent and utility connections.
- 5 year limited warranty
- Extended warranty available

Model Number	A (In.)	B (In.)	C (In.)	D (In.)	E (In.)	F (In.)	G (In.)	Orifice	Refrigerant Connections		Weight (Lbs.)
									Liquid (In.)	Vapor (In.)	
EC1P18AG-1	14-1/2	16-1/2	13	13-1/2	18	20-1/2	21	.051	3/8	3/4	31
EC1P23AG-1	14-1/2	18-1/2	13	13-1/2	18	20-1/2	21	.057	3/8	3/4	39
EC1P23BG-1	17-1/2	18-1/2	16	16-1/2	18	20-1/2	21	.057	3/8	3/4	41
EC1P24AG-1	14-1/2	20-1/2	13	13-1/2	18	20-1/2	21	.057	3/8	3/4	37
EC1P24BG-1	17-1/2	20-1/2	16	16-1/2	18	20-1/2	21	.057	3/8	3/4	40
EC1P29AG-1	14-1/2	25-1/2	13	13-1/2	18	20-1/2	21	.065	3/8	3/4	47
EC1P30AG-1	14-1/2	24-1/2	13	13-1/2	18	20-1/2	21	.065	3/8	3/4	45
EC1P30BG-1	17-1/2	24-1/2	16	16-1/2	18	20-1/2	21	.065	3/8	3/4	46
EC1P30CG-1	21	24-1/2	19-1/2	20	18	20-1/2	21	.065	3/8	3/4	50
EC1P36AG-1	14-1/2	24-1/2	13	13-1/2	18	20-1/2	21	.073	3/8	3/4	49
EC1P36BG-1	17-1/2	24-1/2	16	16-1/2	18	20-1/2	21	.073	3/8	3/4	51
EC1P36CG-1	21	24-1/2	19-1/2	20	18	20-1/2	21	.073	3/8	3/4	55
EC1P43BG-1	17-1/2	29-1/2	16	16-1/2	18	20-1/2	21	.076	3/8	7/8	60
EC1P43CG-1	21	29-1/2	19-1/2	20	18	20-1/2	21	.076	3/8	7/8	63
EC1P48BG-1	17-1/2	24-1/2	16	16-1/2	18	20-1/2	21	.082	3/8	7/8	52
EC1P48CG-1	21	24-1/2	19-1/2	20	18	20-1/2	22	.082	3/8	7/8	55
EC1P49CG-1	21	29-1/2	19-1/2	20	19	21-1/2	22	.093	3/8	7/8	72
EC1P50CG-1	21	27-1/2	19-1/2	20-1/2	18	20-1/2	21	.082	3/8	7/8	66
EC1P60DG-1	24-1/2	25-1/2	23	23-1/2	18	20-1/2	21	.093	3/8	7/8	66
EC1P62CG-1	21	31-1/2	19-1/2	20	19	21-1/2	22	.093	3/8	7/8	76
EC1P62DG-1	24-1/2	29-1/2	23	23-1/2	18	20-1/2	21	.093	3/8	7/8	77

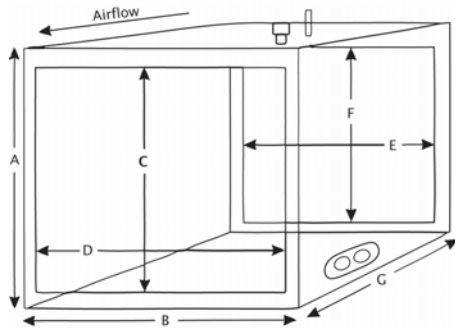
Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	60735	EC1P18AG-1 14-1/2IN CASED COIL
1	EA	60777	EC1P23AG-1 14-1/2IN CASED COIL
1	EA	60807	EC1P23BG-1 17-1/2IN CASED COIL
1	EA	60742	EC1P24AG-1 14-1/2IN CASED COIL
1	EA	60773	EC1P24BG-1 17-1/2IN CASED COIL
1	EA	60784	EC1P29AG-1 14-1/2IN CASED COIL
1	EA	60744	EC1P30AG-1 14-1/2IN CASED COIL
1	EA	60745	EC1P30BG-1 17-1/2IN CASED COIL
1	EA	60803	EC1P30CG-1 21 IN CASED COIL
1	EA	60746	EC1P36AG-1 14-1/2IN CASED COIL
1	EA	60747	EC1P36BG-1 17-1/2IN CASED COIL
1	EA	60758	EC1P36CG-1 21IN CASED COIL
1	EA	60808	EC1P43BG-1 17-1/2IN CASED COIL
1	EA	60809	EC1P43CG-1 21IN CASED COIL
1	EA	60762	EC1P48BG-1 17-1/2IN CASED COIL
1	EA	60774	EC1P48CG-1 21IN CASED COIL
1	EA	60766	EC1P49CG-1 21IN CASED COIL
1	EA	60767	EC1P50CG-1 21IN CASED COIL
1	EA	60768	EC1P60DG-1 24-1/2IN CASED COIL
1	EA	60771	EC1P62CG-1 21IN CASED COIL
1	EA	60772	EC1P62DG-1 24-1/2IN CASED COIL



# EH1P Cased Coils

Horizontal



- Microban® antimicrobial additive in the drain pan to resist mold and mildew growth.
- Drain pan has trough to fully drain condensate away.
- Insulated galvanized steel coil case with durable embossed finish.
- Top, front, and back panels are removable for easy service or coil cleaning.
- Dual condensate drains on front and back of coil allows flexibility of placement to accommodate left or right airflow furnaces.
- Foil faced insulation for easy cleaning.
- Refrigerant connections on top of coil for ease of installation in left or right airflow furnaces.
- 5 year limited warranty.

Model Number	A (In.)	B (In.)	Supply		Return		Orifice Size	Weight
			C W (In.)	D H (In.)	E W (In.)	F H (In.)		
EH1P23AM-1	14-1/2	26-1/2	19-3/4	13	20	13-1/2	.057	38
EH1P23BM-1	17-1/2	26-1/2	19-3/4	16	20	16-1/2	.057	50
EH1P29AM-1	14-1/2	31-1/2	19-3/4	13	20-1/4	13-1/2	.065	56
EH1P29BM-1	17-1/2	26-1/2	19-3/4	16	20	16-1/2	.065	45
EH1P36BM-1	17-1/2	26-1/2	19-3/4	16	20	16-1/2	.073	56
EH1P36CM-1	21	26-1/2	19-3/4	19-1/2	20	20	.073	64
EH1P43BM-1	17-1/2	31-1/2	19-3/4	16	20-1/4	16-1/2	.076	52
EH1P43CM-1	21	26-1/2	19-3/4	19-1/2	20	20	.076	56
EH1P49CM-1	21	31-1/2	19-3/4	19-1/2	20-1/4	20	.093	58
EH1P49DM-1	24-1/2	31-1/2	19-3/4	23	21-1/4	23-1/2	.093	66
EH1P62CM-1	21	31-1/2	19-3/4	19-1/2	20-1/4	20	.093	63
EH1P62DM-1	24-1/2	31-1/2	23	19-3/4	23-1/2	20-1/4	.093	63

Prices Available on Request

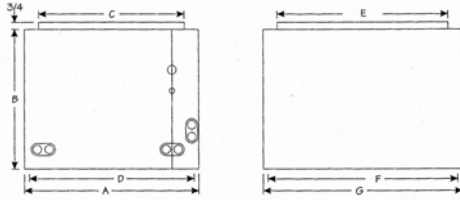
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	67300	EH1P23AM-1 14-1/2IN HORIZONTAL COIL
1	EA	67382	EH1P23BM-1 17-1/2IN HORIZONTAL COIL
1	EA	67395	EH1P29AM-1 14-1/2IN HORIZONTAL COIL
1	EA	67403	EH1P29BM-1 17-1/2IN HORIZONTAL COIL
1	EA	67405	EH1P36BM-1 17-1/2IN HORIZONTAL COIL
1	EA	67411	EH1P36CM-1 21IN HORIZONTAL COIL
1	EA	67412	EH1P43BM-1 17-1/2IN HORIZONTAL COIL
1	EA	67413	EH1P43CM-1 21IN HORIZONTAL COIL
1	EA	67431	EH1P49CM-1 21IN HORIZONTAL COIL
1	EA	67441	EH1P49DM-1 24-1/2IN HORIZONTAL COIL
1	EA	67432	EH1P62CM-1 21IN HORIZONTAL COIL
1	EA	67438	EH1P62DM-1 24-1/2IN HORIZONTAL COIL





## EM1P Cased Coils

### Upflow and Horizontal



- Microban® antimicrobial additive in the drain pan to resist mold and mildew growth
- Insulated steel coil case with high quality painted finish
- Interlocking door assemblies and snug line seal grommets to minimize air leakage
- External cabinet mounted distributor body designed for easy changing of orifice sizes and fast TXV connections
- Side drain pan built in for easy horizontal coil installations
- 5 year limited warranty
- Extended warranty available

Model Number	A (In.)	B (In.)	C (In.)	D (In.)	E (In.)	F (In.)	G (In.)	Orifice	Refrigerant Connections		Weight (Lbs.)
									Liquid (In.)	Vapor(In.)	
EM1P18AG-1	14-1/2	25-1/2	13	13-1/2	19-1/2	20-1/2	21	.051	3/8	3/4	45
EM1P24AG-1	14-1/2	25-1/2	13	13-1/2	19-1/2	20-1/2	21	.057	3/8	3/4	42
EM1P24BG-1	17-1/2	25-1/2	16	16-1/2	19-1/2	20-1/2	21	.057	3/8	3/4	42
EM1P29BG-1	17-1/2	25-1/2	16	16-1/2	19-1/2	20-1/2	21	.065	3/8	3/4	41
EM1P30AG-1	14-1/2	25-1/2	13	13-1/2	19-1/2	20-1/2	21	.065	3/8	3/4	42
EM1P30BG-1	17-1/2	25-1/2	16	16-1/2	19-1/2	20-1/2	21	.065	3/8	3/4	42
EM1P36AG-1	14-1/2	25-1/2	13	13-1/2	19-1/2	20-1/2	21	.073	3/8	3/4	57
EM1P36BG-1	17-1/2	25-1/2	16	16-1/2	19-1/2	20-1/2	21	.073	3/8	3/4	57
EM1P36CG-1	21	25-1/2	19-1/2	20	19-1/2	20-1/2	21	.073	3/8	3/4	57
EM1P48BG-1	17-1/2	25-1/2	16	16-1/2	19-1/2	20-1/2	21	.082	3/8	7/8	48
EM1P48CG-1	21	25-1/2	19-1/2	20	19-1/2	20-1/2	21	.082	3/8	7/8	48

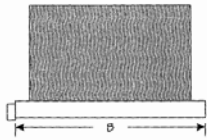
Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	60661	EM1P18AG-1 14-1/2IN UPFLOW/HORIZONTAL COIL
1	EA	60663	EM1P24AG-1 14-1/2IN UPFLOW/HORIZONTAL COIL
1	EA	60671	EM1P24BG-1 17-1/2IN UPFLOW/HORIZONTAL COIL
1	EA	61437	EM1P29BG-1 17-1/2IN UPFLOW/HORIZONTAL COIL
1	EA	60664	EM1P30AG-1 14-1/2IN UPFLOW/HORIZONTAL COIL
1	EA	60665	EM1P30BG-1 17-1/2IN UPFLOW/HORIZONTAL COIL
1	EA	60666	EM1P36AG-1 14-1/2IN UPFLOW/HORIZONTAL COIL
1	EA	60667	EM1P36BG-1 17-1/2IN UPFLOW/HORIZONTAL COIL
1	EA	60668	EM1P36CG-1 21IN UPFLOW/HORIZONTAL COIL
1	EA	60669	EM1P48BG-1 17-1/2IN UPFLOW/HORIZONTAL COIL
1	EA	60675	EM1P48CG-1 21IN UPFLOW/HORIZONTAL COIL

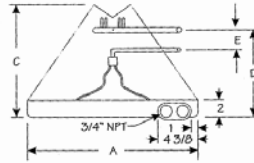
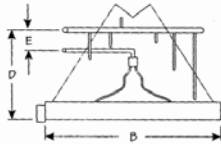


# EU1P Uncased Coils

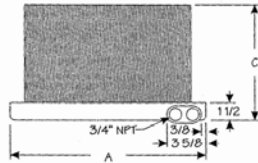
Upflow and Counterflow



EU1P18-48, 50



EU1P49, 60, 62



- Microban® antimicrobial additive in the drain pan to resist mold and mildew growth
- One of the lowest water retention drain pans in the industry to minimize mold and mildew growth
- Two dual drain connections on front of coil for installation flexibility of drain lines around furnace vent and utility connections
- Orifice assembly designed for easy changing of orifice sizes and fast TXV connections
- 5 year limited warranty
- Extended warranty available

Model Number	A (In.)	B (In.)	C (In.)	D (In.)	E (In.)	Orifice	Refrigerant Connections		Weight (Lbs.)
							Liquid (In.)	Vapor(In.)	
EU1P18AN-1	13	19-1/2	15	9-1/2	4-1/2	.051	3/8	3/4	18
EU1P23AN-1	13	19-1/2	17-3/16	12-1/2	4-1/2	.057	3/8	3/4	22
EU1P24AN-1	13	19-1/2	19-3/16	14-1/2	6	.057	3/8	3/4	22
EU1P24BN-1	15-1/2	19-1/2	18-3/4	14-1/2	6	.057	3/8	3/4	23
EU1P29AN-1	13	19-1/2	21-1/4	17-1/3	6-1/2	.065	3/8	3/4	24
EU1P29BN-1	15-1/2	19-1/2	21-1/4	17-1/4	6-1/2	.065	3/8	3/4	25
EU1P30AN-1	13	19-1/2	23-1/4	17-1/3	6-1/2	.065	3/8	3/4	26
EU1P30BN-1	15-1/2	19-1/2	23	17-1/3	6-1/2	.065	3/8	3/4	27
EU1P30CN-1	20	19-1/2	22-1/4	17-1/3	6-1/2	.065	3/8	3/4	29
EU1P36AN-1	13	19-1/2	23-3/8	17-1/3	6-1/2	.073	3/8	3/4	31
EU1P36BN-1	15-1/2	19-1/2	23-1/8	17-1/3	6-1/2	.073	3/8	3/4	33
EU1P36CN-1	20	19-1/2	22-1/2	17-1/3	4-1/2	.073	3/8	3/4	34
EU1P43BN-1	15-1/2	19-1/2	27-1/4	23-1/3	5-1/2	.076	3/8	7/8	43
EU1P43CN-1	20	19-1/2	26-3/4	23-1/3	5-1/2	.076	3/8	7/8	44
EU1P48BN-1	15-1/2	19-1/2	23-1/8	9-1/2	4-1/2	.082	3/8	7/8	33
EU1P48CN-1	20	19-1/2	22-1/2	9-1/2	4-1/2	.082	3/8	7/8	35
EU1P50CN-1	20	19-1/2	26-3/4	23-1/3	5-1/2	.082	3/8	7/8	40
EU1P49CN-1	19-1/2	21-1/2	28-5/8	15	*3	.093	3/8	7/8	53
EU1P60DN-1	23	19-1/2	24	11-3/8	*3	.093	3/8	7/8	42
EU1P62CN-1	19-1/2	21-1/2	30-5/8	18-1/8	*3	.093	3/8	7/8	58
EU1P62DN-1	19-1/2	19-1/2	28-1/8	18-1/4	4-5/8	.093	3/8	7/8	48

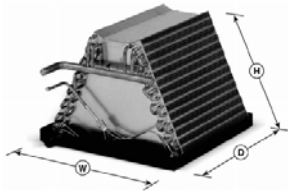
Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	60464	EU1P18AN-1 13IN UNCASED COIL
1	EA	60783	EU1P23AN-1 13IN UNCASED COIL
1	EA	60467	EU1P24AN-1 13IN UNCASED COIL
1	EA	60538	EU1P24BN-1 15-1/2IN UNCASED COIL
1	EA	60825	EU1P29AN-1 13 IN UNCASED COIL
1	EA	84077	EU1P29BN-1 15 1/2 IN UNCASED COIL
1	EA	60468	EU1P30AN-1 13IN UNCASED COIL
1	EA	60557	EU1P30BN-1 15-1/2IN UNCASED COIL
1	EA	60579	EU1P30CN-1 20IN UNCASED COIL
1	EA	60481	EU1P36AN-1 13IN UNCASED COIL
1	EA	60483	EU1P36BN-1 15-1/2IN UNCASED COIL
1	EA	60598	EU1P36CN-1 20IN UNCASED COIL
1	EA	60828	EU1P43BN-1 15-1/2IN UNCASED COIL
1	EA	60827	EU1P43CN-1 20IN UNCASED COIL
1	EA	60490	EU1P48BN-1 15-1/2IN UNCASED COIL
1	EA	60837	EU1P48CN-1 20IN UNCASED COIL
1	EA	60841	EU1P49CN-1 20IN UNCASED COIL
1	EA	60492	EU1P50CN-1 20IN UNCASED COIL
1	EA	60843	EU1P60DN-1 23IN UNCASED COIL
1	EA	60493	EU1P62CN-1 20IN UNCASED COIL
1	EA	60518	EU1P62DN-1 23IN UNCASED COIL



# CA Series Uncased Coils

## Upflow and Downflow



- Rifled copper tubing, enhanced aluminum fins
- Immersion-tested at 500 psi, then nitrogen-pressurized and sealed
- Models with either left- or right-hand refrigerant and plumbing connections
- Externally mounted flowrater body with Schrader valve for hiss-testing
- Heavy duty polypropylene drain pans on most models
- Upflow without field modification
- Downflow applications require plate kit, included
- ARI Certified
- ETL Listed
- 10 year limited warranty

C	A	30	C4	4	-130	R
C Series	Configuration A = uncased	Nominal Tonnage (MBTUH)	Coil descriptor code (face area, rows)	4 = non-bleed A/C or H/P R-410A TXV	Pan Width 130 = 13" 160 = 16" 195 = 19.5"	R = right-hand plumbing and refrigerant connections

Model No.	Flowrater Size	Dimensions			Shipping Weight (Lbs.)		
		Pan Widths (In.)	Pan Depth (In.)	Bare Slab Height (In.)	2 Row	3 Row	4 Row
CA30C*	0.059	130 = 13"	19-3/8	18	25	40	53
CA30D*	0.059	160 = 16"	19-3/8	20	28	45	58
CA36D*	0.068	195 = 19.5"	19-3/8	22	31	49	64
CA48D*	0.080		19-3/8	26	37	58	76

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	84025	CA30C44-130R-000 UNCASED COIL	—
12	EA	84027	CA30D44-130R-000 UNCASED COIL	—
12	EA	84028	CA30D44-160R-000 UNCASED COIL	—
6	EA	84029	CA36D44-160R-000 UNCASED COIL	—
6	EA	84030	CA36D44-195R-000 UNCASED COIL	—
6	EA	84031	CA48D44-160R-000 UNCASED COIL	—
6	EA	84032	CA48D44-195R-000 UNCASED COIL	—



## 4SHP18LT Enhanced Heat Pumps

18 SEER, R-410A, Split System



### Compressor

- High-efficiency 2-stage Copeland UltraTech™ scroll compressor
- R-410A refrigerant
- Grommet-mounted compressor for quiet operation
- Heavy-duty compressor sound blanket for quiet operation

### Cabinet

- Full metal louvered panel coil guard protection
- Controls located in corner post for easy installation and service
- Baked polyester paint finish over galvanized steel for maximum durability
- PVC-coated wire fan discharge grille

### Coil

- Enhanced aluminum fins and copper tubing for high efficiency and capacity
- Raised coil prevents debris from collecting in bottom of coil and causing loss of airflow

### Components

- Bi-flow filter drier factory installed for system protection
- Variable speed condenser fan motor with swept-wing fan blade
- Comfort Alert 2™ diagnostics; displaying up to nine fault codes is factory installed
- QuietShift™ technology during defrost cycle, to control sound

### Warranties\*

- 10 year limited warranty on compressor
- 10 year limited warranty on all parts
- ARI certified
- UL listed

\*On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

### Heat Pumps

Prices Available on Request

Dimensions H x W x D (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
44 x 37.66 x 35.66	1	EA	63592	4SHP18LT124P 18 SEER 208/230V 1PH HEAT PUMP R410A
44 x 37.66 x 35.66	1	EA	63593	4SHP18LT136P 18 SEER 208/230V 1PH HEAT PUMP R410A
44 x 37.66 x 35.66	1	EA	63594	4SHP18LT148P 18 SEER 208/230V 1PH HEAT PUMP R410A
44 x 37.66 x 35.66	1	EA	63597	4SHP18LT160P 18 SEER 208/230V 1PH HEAT PUMP R410A

### Accessories

Used On	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
All 4SHP 18 Models	1	EA	61702	45F08 T6-1469 LOW AMBIENT KIT
4SHP18LT124, 36	1	EA	67837	H4TXV01-1 R-410A EXPANSION VALVE
4SHP18LT148, 60	1	EA	67839	H4TXV03-1 R-410A EXPANSION VALVE



# 4SHP18LT Heat Pump Performance Ratings



Outdoor Model	Indoor Model Evap. Coil or Air Handler 3	Furnace	Cooling				Heating				CFM	Refrig. Connection		Refrig. Line Size	Indoor Expansion Valve	
			SEER	EER	AHRI Rated Cap.	Sens. Cap.	HSPF	47°		17°		Outdoor	Indoor			
								Btuh	COP	Btuh						COP
4HP18LT24P	E(U,C,H)1P49C	EFV16CC	17.0	13.0	24,000	18,500	9.0	22,000	4.0	13,000	2.60	900	7/8	7/8	7/8	H4TXV01
	E(U,C,H)1P49C	95G2UH090CV12	16.5	13.0	24,000	18,500	8.5	22,000	4.0	13,000	2.60	900	7/8	7/8	7/8	H4TXV01
4HP18LT36P	BCS2M48V00NA1P		17.0	12.5	35,000	26,300	8.7	34,000	3.5	22,000	2.70	1,200	7/8	7/8	7/8	H4TXV01
	E(U,C,H)1P62C	EFV16CC	17.0	12.5	35,000	26,300	9.0	34,600	3.5	22,000	2.70	1,200	7/8	7/8	7/8	H4TXV01
	E(U,C,H)1P62C	80G2UH110CV20	17.0	13.0	35,000	26,300	9.0	34,600	3.5	22,000	2.70	1,200	7/8	7/8	7/8	H4TXV01
	E(U,C,H)1P62C	95G1DF090CE16	17.0	13.0	35,000	26,300	9.0	34,600	3.5	22,000	2.70	1,200	7/8	7/8	7/8	H4TXV01
	E(U,C,H)1P62C	95G2DF090CV20	17.0	13.0	35,000	26,300	9.0	34,600	3.5	22,000	2.70	1,200	7/8	7/8	7/8	H4TXV01
	E(U,C,H)1P62C	95G2DF110CV20	17.0	13.0	35,000	26,300	9.0	34,600	3.5	22,000	2.70	1,200	7/8	7/8	7/8	H4TXV01
	E(U,C,H)1P62C	95G1UH090CE16	17.0	13.0	35,000	26,300	9.0	34,600	3.5	22,000	2.70	1,200	7/8	7/8	7/8	H4TXV01
	E(U,C,H)1P62C	95G2UH090CV12	17.0	13.0	35,000	26,300	9.0	34,600	3.5	22,000	2.70	1,200	7/8	7/8	7/8	H4TXV01
	E(U,C,H)1P62C	95G2UH090CV20	17.0	13.0	35,000	26,300	9.0	34,600	3.5	22,000	2.70	1,200	7/8	7/8	7/8	H4TXV01
4HP18LT48P	BCS2M48V00NA1P		15.5	11.5	47,000	34,800	9.0	45,000	3.3	28,600	2.50	1,550	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	EFV16CC	16.0	12.0	47,000	34,800	9.0	45,000	3.3	28,600	2.50	1,550	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62D	EFV20DC	16.0	12.0	47,000	34,800	8.5	45,000	3.3	28,600	2.50	1,600	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	80G1DF110CE20	16.0	12.0	47,000	34,800	8.5	44,000	3.3	28,600	2.50	1,550	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	80G1UH090CE20	16.0	12.0	47,000	34,800	8.5	44,000	3.3	28,600	2.50	1,550	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	80G1UH110CE20	16.0	12.0	47,000	34,800	8.5	44,000	3.3	28,600	2.50	1,550	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	80G2UH110CV20	16.0	12.0	47,000	34,800	9.0	44,000	3.3	28,600	2.50	1,550	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G1DF090CE16	16.0	12.0	47,000	34,800	8.5	44,000	3.3	28,600	2.50	1,550	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G1DF110CE20	16.0	12.0	47,000	34,800	8.5	44,000	3.3	28,600	2.50	1,550	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G2DF090CV20	16.0	12.0	47,000	34,800	8.5	44,000	3.3	28,600	2.50	1,550	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G2DF110CV20	16.0	12.0	47,000	34,800	8.5	44,000	3.3	28,600	2.50	1,550	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G1UH090CE16	16.0	12.0	47,000	34,800	8.5	44,000	3.3	28,600	2.50	1,550	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G1UH110CE20	16.0	12.0	47,000	34,800	8.5	44,000	3.3	28,600	2.50	1,550	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G2UH090CV20	16.0	12.0	47,000	34,800	8.5	44,000	3.3	28,600	2.50	1,550	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G2UH110CV20	16.0	12.0	47,000	34,800	8.5	44,000	3.3	28,600	2.50	1,550	7/8	7/8	1 1/8	H4TXV03
E(U,C,H)1P62D	95G2UH135DV20	16.0	12.0	47,000	34,800	8.5	45,000	3.3	28,600	2.50	1,550	7/8	7/8	1 1/8	H4TXV03	
4HP18LT60P	BCS2M60V00NA1P		15.5	11.0	56,000	42,000	9.0	55,000	3.5	37,000	2.50	1,800	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	EFV16CC	15.0	11.0	56,000	42,000	9.0	55,000	3.5	37,000	2.50	1,800	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62D	EFV20DC	15.0	11.0	56,000	42,000	9.0	56,000	3.5	37,000	2.50	1,800	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	80G1DF110CE20	15.0	11.0	56,000	42,000	9.0	55,000	3.5	37,000	2.50	1,800	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	80G1UH090CE20	15.0	11.0	56,000	42,000	9.0	55,000	3.5	37,000	2.50	1,900	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	80G1UH110CE20	15.0	11.0	56,000	42,000	9.0	55,000	3.5	37,000	2.50	1,900	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62D	80G1UH135DE20	14.5	11.0	56,000	42,000	9.0	56,000	3.5	37,000	2.50	1,800	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	80G2UH110CV20	15.0	11.0	56,000	42,000	9.0	55,000	3.5	37,000	2.50	1,800	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G1DF110CE20	15.0	11.0	56,000	42,000	9.0	55,000	3.5	37,000	2.50	1,900	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G2DF090CV20	15.0	11.0	56,000	42,000	9.0	55,000	3.5	37,000	2.50	1,800	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G2DF110CV20	15.0	11.0	56,000	42,000	9.0	55,000	3.5	37,000	2.50	1,800	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G1UH110CE20	15.0	11.0	56,000	42,000	9.0	55,000	3.5	37,000	2.50	1,900	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62D	95G1UH135DE20	14.5	11.0	56,000	42,000	9.0	56,000	3.5	37,000	2.50	1,800	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G2UH090CV20	15.0	11.0	56,000	42,000	9.0	55,000	3.5	37,000	2.50	1,800	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G2UH110CV20	15.0	11.0	56,000	42,000	9.0	55,000	3.5	37,000	2.50	1,800	7/8	7/8	1 1/8	H4TXV03
E(U,C,H)1P62D	95G2UH135DV20	15.0	11.0	56,000	42,000	9.0	56,000	3.5	37,000	2.50	1,800	7/8	7/8	1 1/8	H4TXV03	



## 4SHP16LT Enhanced Heat Pumps

16 SEER, R-410A, Split System



### Compressor

- High efficiency 2-stage scroll compressor
- R-410A refrigerant
- Grommet mounted for quiet operation
- Internally protected against high temperature motor overload conditions
- Heavy-duty compressor sound blanket for quiet operation

### Cabinet

- Full metal louvered jacket coil guard protection
- Controls located in corner post for easy installation and service
- Baked polyester paint finish over galvanized steel for maximum durability
- PVC coated wire fan discharge grille

### Coil

- Enhanced aluminum fins and copper tubing for high efficiency and capacity
- Raised coil prevents debris from collecting in bottom of coil and causing loss of airflow

### Components

- Full metal jacket panels remove with just two screws per panel for easy coil cleaning and service
- Bi-directional filter drier for long-lasting durability and system protection
- Discharge muffler for quiet operation
- Reliable, solid-state, time-initiated, temperature-terminated defrost system
- Comfort Alert 2 diagnostics factory installed
- Low pressure switch for loss of charge protection
- Defrost control has short cycle protection to protect the compressor with field selectable 30/60/90 minute defrost cycle

### Warranties\*

- 10 year limited warranty on compressor
- 10 year limited warranty on all parts
- ARI certified
- UL listed

\*On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

### Heat Pumps

Prices Available on Request

Depth (In.)	Width (In.)	Height (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
26-3/4	24-3/4	29-3/4	1	EA	67782	4SHP16LT124P-1 16 SEER 208/230V 1PH HEAT PUMP R410A
31-1/4	29-3/8	33-3/4	1	EA	67783	4SHP16LT136P-1 16 SEER 208/230V 1PH HEAT PUMP R410A
31-1/4	29-3/8	43-3/4	1	EA	67784	4SHP16LT148P-1 16 SEER 208/230V 1PH HEAT PUMP R410A
37-3/4	35-3/4	43-3/4	1	EA	67785	4SHP16LT160P-1 16 SEER 208/230V 1PH R-410A HEAT PUMP

### Accessories

For Use with the Following	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
4SHP16LT124	1	EA	67837	H4TXV01-1 R-410A EXPANSION VALVE
4SHP16LT136	1	EA	67838	H4TXV02-1 R-410A EXPANSION VALVE
4SHP16LT148, 60	1	EA	67839	H4TXV03-1 R-410A EXPANSION VALVE



4SHP16LT Heat Pump Performance Ratings



Outdoor Model	Indoor Model Evap. Coil or Air Handler 3	Furnace	Cooling				Heating				CFM	Refrig. Connection		Refrig. Line Size	Indoor Expansion Valve	
			SEER	EER	AHRI Rated Cap.	Sens. Cap.	HSPF	47°		17°		Outdoor	Indoor			
								Btuh	COP	Btuh						COP
4HP16LT124P	BCS2M24V00NA1P		15.0	12.5	24,000	17,400	8.5	24,000	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
	E(U,C,M,H)1P36B	EFV08BC	15.0	12.5	24,000	17,400	8.5	24,000	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
	E(U,M,H)1P29B	EFV08BC	15.0	12.5	24,000	17,400	8.5	24,000	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
	E(U,C,M,H)1P29A	80G1DF045AE12	14.5	12.0	24,000	17,400	8.5	22,600	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
	E(U,C,M,H)1P36A	80G1DF045AE12	14.5	12.0	24,000	17,400	8.5	22,000	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
	E(U,C,M,H)1P29B	80G1DF070BE12	14.0	12.0	24,000	17,400	8.5	22,600	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
	E(U,C,M,H)1P36B	80G1DF070BE12	14.0	12.0	24,000	17,400	8.5	22,000	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
	E(U,C,M,H)1P29A	80G1UH045AE12	14.5	12.0	24,000	17,400	8.5	22,600	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
	E(U,C,M,H)1P36A	80G1UH045AE12	14.5	12.5	24,000	17,400	8.5	22,000	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
	E(U,C,M,H)1P29B	80G1UH070BE12	14.0	12.0	24,000	17,400	8.5	22,600	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
	E(U,C,M,H)1P36B	80G1UH070BE12	14.0	12.0	24,000	17,400	8.5	22,000	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
	E(U,C,M,H)1P36B	80G2UH090BV16*	14.5	12.5	24,000	17,400	8.5	22,000	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
	E(U,M,H)1P29B	80G2UH090BV16*	14.5	12.5	24,000	17,400	8.5	22,600	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
	E(U,C,M,H)1P29B	95G2DF045BV12	14.5	12.5	24,000	17,400	8.5	22,600	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
	E(U,C,M,H)1P36B	95G2DF045BV12	14.5	12.5	24,000	17,400	8.5	22,000	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
	E(U,C,M,H)1P29B	95G1UH070BE12	14.0	12.0	24,000	17,400	8.5	22,600	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
	E(U,C,M,H)1P36B	95G1UH070BE12	14.0	12.0	24,000	17,400	8.5	22,000	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
	E(U,C,M,H)1P29B	95G2UH045BV12	14.5	12.5	24,000	17,400	8.5	22,600	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
	E(U,C,M,H)1P36B	95G2UH045BV12	15.0	12.5	24,000	17,400	8.5	22,000	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
	E(U,C,M,H)1P29B	95G2UH070BV12	15.0	12.5	24,000	17,400	8.5	22,600	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01
E(U,C,M,H)1P36B	95G2UH070BV12	15.0	12.5	24,000	17,400	8.5	22,000	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01	
E(U,C,M,H)1P36C	95G2UH090CV12	15.0	12.5	24,000	17,400	8.5	22,000	3.3	14,000	2.40	850	3/4	3/4	3/4	H4TXV01	
4HP16LT136P	BCS2M36V00NA1P		15.0	12.5	35,000	25,400	8.5	36,000	3.3	22,000	2.40	1,310	7/8	7/8	7/8	H4TXV01
	E(U,C,M,H)1P36B	EFV12BC	15.0	12.5	35,000	25,400	8.5	36,000	3.3	22,000	2.40	1,310	7/8	3/4	7/8	H4TXV01
	E(U,C,M,H)1P43B	EFV12BC	15.0	12.5	35,000	25,400	8.5	36,000	3.3	22,000	2.40	1,310	7/8	7/8	7/8	H4TXV01
	E(U,C,M,H)1P36B	80G1DF090BE16	15.0	12.5	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	3/4	7/8	H4TXV01
	E(U,C,M,H)1P43B	80G1DF090BE16	15.0	12.5	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	7/8	7/8	H4TXV01
	E(U,C,M,H)1P36B	80G1UH090BE16	15.0	12.5	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	3/4	7/8	H4TXV01
	E(U,C,M,H)1P43B	80G1UH090BE16	15.0	12.5	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	7/8	7/8	H4TXV01
	E(U,C,M,H)1P36B	80G2UH090BV16*	15.0	11.6	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	3/4	7/8	H4TXV01
	E(U,C,M,H)1P36B	95G1DF070BE16	14.5	12.0	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	3/4	7/8	H4TXV01
	E(U,C,M,H)1P43B	95G1DF070BE16	14.5	12.0	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	7/8	7/8	H4TXV01
	E(U,C,M,H)1P36C	95G1DF090CE16	15.0	12.5	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	3/4	7/8	H4TXV01
	E(U,C,M,H)1P43C	95G1DF090CE16	15.0	12.5	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	7/8	7/8	H4TXV01
	E(U,C,M,H)1P36B	95G2DF045BV12	15.0	12.0	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	3/4	7/8	H4TXV01
	E(U,C,M,H)1P43B	95G2DF045BV12	15.0	12.0	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	7/8	7/8	H4TXV01
	E(U,C,M,H)1P36B	95G2DF070BV16	15.0	12.0	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	3/4	7/8	H4TXV01
	E(U,C,M,H)1P43B	95G2DF070BV16	15.0	12.0	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	7/8	7/8	H4TXV01
	E(U,C,M,H)1P36C	95G2DF090CV20	15.0	12.5	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	3/4	7/8	H4TXV01
	E(U,C,M,H)1P43C	95G2DF090CV20	15.5	12.5	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	7/8	7/8	H4TXV01
	E(U,C,M,H)1P36C	95G2DF110CV20	15.0	12.5	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	3/4	7/8	H4TXV01
	E(U,C,M,H)1P43C	95G2DF110CV20	15.5	12.5	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	7/8	7/8	H4TXV01
	E(U,C,M,H)1P36C	95G1UH090CE16	15.0	12.5	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	3/4	7/8	H4TXV01
	E(U,C,M,H)1P43C	95G1UH090CE16	15.0	12.5	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	7/8	7/8	H4TXV01
	E(U,C,M,H)1P36B	95G2UH045BV12	15.0	12.5	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	3/4	7/8	H4TXV01
	E(U,C,M,H)1P43B	95G2UH045BV12	15.0	12.0	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	7/8	7/8	H4TXV01
	E(U,C,M,H)1P36B	95G2UH070BV12	15.0	12.0	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	3/4	7/8	H4TXV01
	E(U,C,M,H)1P43B	95G2UH070BV12	15.0	12.0	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	7/8	7/8	H4TXV01
	E(U,C,M,H)1P36C	95G2UH090CV12	15.0	12.5	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	3/4	7/8	H4TXV01
	E(U,C,M,H)1P43C	95G2UH090CV12	15.5	12.5	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	7/8	7/8	H4TXV01
	E(U,C,M,H)1P36C	95G2UH090CV20	15.0	12.5	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	3/4	7/8	H4TXV01
	E(U,C,M,H)1P43C	95G2UH090CV20	15.5	12.5	35,000	25,400	8.5	35,000	3.3	22,000	2.40	1,310	7/8	7/8	7/8	H4TXV01
4HP16LT148P	BCS2M48V00NA1P		16.0	12.5	47,000	33,500	8.5	46,000	3.2	29,000	2.40	1,600	7/8	7/8	7/8	H4TXV02
	E(U,C,H)1P49C	EFV16CC	14.5	11.5	46,500	33,100	8.0	46,000	3.0	29,000	2.00	1,600	7/8	7/8	7/8	H4TXV02
	E(U,C,H)1P62C	EFV16CC	14.5	12.0	46,500	33,100	8.0	46,000	3.0	29,000	2.00	1,600	7/8	7/8	7/8	H4TXV02
	E(U,C,H)1P49C	80G1DF110CE20	14.0	12.0	47,000	33,500	8.5	46,500	3.3	29,000	2.40	1,600	7/8	7/8	7/8	H4TXV02
	E(U,C,H)1P62C	80G1DF110CE20	14.0	12.0	47,000	33,500	8.5	46,500	3.3	29,000	2.40	1,600	7/8	7/8	7/8	H4TXV02

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Outdoor Model	Indoor Model Evap. Coil or Air Handler 3	Furnace	Cooling				Heating				CFM	Refrig. Connection		Refrig. Line Size	Indoor Expansion Valve	
			SEER	EER	AHRI Rated Cap.	Sens. Cap.	HSPF	47°		17°		Outdoor Suction	Indoor Suction			
								Btuh	COP	Btuh						COP
4HP16LT148P (Continued)	E(U,C,H)1P49C	80G1UH090CE20	14.5	12.0	47,000	33,500	8.5	46,500	3.3	29,000	2.40	1,600	7/8	7/8	7/8	H4TXV02
	E(U,C,H)1P62C	80G1UH090CE20	14.5	12.0	47,000	33,500	8.5	46,500	3.3	29,000	2.40	1,600	7/8	7/8	7/8	H4TXV02
	E(U,C,H)1P49C	80G1UH110CE20	14.5	12.0	47,000	33,500	8.5	46,500	3.3	29,000	2.40	1,600	7/8	7/8	7/8	H4TXV02
	E(U,C,H)1P62C	80G1UH110CE20	14.5	12.0	47,000	33,500	8.5	46,500	3.3	29,000	2.40	1,600	7/8	7/8	7/8	H4TXV02
	E(U,C,H)1P49C	80G2UH110CV20*	15.0	12.0	47,000	33,500	8.5	46,500	3.3	29,000	2.40	1,600	7/8	7/8	7/8	H4TXV02
	E(U,C,H)1P62C	80G2UH110CV20*	15.0	12.0	47,000	33,500	8.5	46,500	3.3	29,000	2.40	1,600	7/8	7/8	7/8	H4TXV02
	E(U,C,H)1P49C	95G1DF110CE20	14.0	12.0	47,000	33,500	8.5	46,500	3.3	29,000	2.40	1,600	7/8	7/8	7/8	H4TXV02
	E(U,C,H)1P62C	95G1DF110CE20	14.0	12.0	47,000	33,500	8.5	46,500	3.3	29,000	2.40	1,600	7/8	7/8	7/8	H4TXV02
	E(U,C,H)1P49C	95G2DF090CV20	14.5	11.5	47,000	33,500	8.5	46,500	3.3	29,000	2.40	1,600	7/8	7/8	7/8	H4TXV02
	E(U,C,H)1P62C	95G2DF090CV20	15.0	11.5	47,000	33,500	8.5	46,500	3.3	29,000	2.40	1,600	7/8	7/8	7/8	H4TXV02
	E(U,C,H)1P49C	95G2DF110CV20	15.0	11.5	47,000	33,500	8.5	46,500	3.3	29,000	2.40	1,600	7/8	7/8	7/8	H4TXV02
	E(U,C,H)1P62C	95G2DF110CV20	15.0	11.5	47,000	33,500	8.5	46,500	3.3	29,000	2.40	1,600	7/8	7/8	7/8	H4TXV02
	E(U,C,H)1P49C	95G1UH110CE20	14.0	12.0	47,000	33,500	8.5	46,500	3.3	29,000	2.40	1,600	7/8	7/8	7/8	H4TXV02
	E(U,C,H)1P62C	95G1UH110CE20	14.0	12.0	47,000	33,500	8.5	46,500	3.3	29,000	2.40	1,600	7/8	7/8	7/8	H4TXV02
	E(U,C,H)1P49C	95G2UH090CV20	15.0	11.5	47,000	33,500	8.5	46,500	3.3	29,000	2.40	1,600	7/8	7/8	7/8	H4TXV02
	E(U,C,H)1P62C	95G2UH090CV20	15.0	11.5	47,000	33,500	8.5	46,500	3.3	29,000	2.40	1,600	7/8	7/8	7/8	H4TXV02
4HP16LT160P	BCS2M60V00NA1P		15.0	12.5	59,000	43,000	8.5	59,000	3.3	35,000	2.40	1,920	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62D	EFV20DC	14.5	11.5	59,000	43,000	8.0	59,000	3.3	35,000	2.40	1,920	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	80G1UH090CE20	14.5	11.0	59,000	43,000	8.5	59,000	3.3	35,000	2.40	1,920	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	80G1UH110CE20	14.5	11.0	59,000	43,000	8.5	59,000	3.3	35,000	2.40	1,920	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	80G2UH110CV20*	14.5	11.4	59,000	43,000	8.5	59,000	3.3	35,000	2.40	1,920	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62D	80G2UH135DV20*	14.7	11.4	59,000	43,000	8.5	59,000	3.3	35,000	2.40	1,920	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G1DF110CE20	14.0	11.0	59,000	43,000	8.5	59,000	3.3	35,000	2.40	1,920	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G2DF090CV20	14.5	11.4	59,000	43,000	8.5	59,000	3.3	35,000	2.40	1,920	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G2DF110CV20	15.0	11.4	59,000	43,000	8.5	59,000	3.3	35,000	2.40	1,920	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G1UH110CE20	14.0	11.0	59,000	43,000	8.5	59,000	3.3	35,000	2.40	1,920	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62D	95G1UH135DE20	14.0	11.0	59,000	43,000	8.5	59,000	3.3	35,000	2.40	1,920	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G2UH090CV20	15.0	11.4	59,000	43,000	8.5	59,000	3.3	35,000	2.40	1,920	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62C	95G2UH110CV20	15.0	11.4	59,000	43,000	8.5	59,000	3.3	35,000	2.40	1,920	7/8	7/8	1 1/8	H4TXV03
	E(U,C,H)1P62D	95G2UH135DV20	15.0	11.4	59,000	43,000	8.5	59,000	3.3	35,000	2.40	1,920	7/8	7/8	1 1/8	H4TXV03

**NOTE:**

<sup>1</sup> Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240

⚠️ Required to achieve AHRI rating. If NA (Not Applicable) is in the piston column, then TXV is required.

⚠️ A blower time delay relay is required to achieve AHRI rating. This feature is standard on all Allied Air Enterprises furnace and AH products.

\* All liquid lines are 3/8".





## 4SHP14LE Enhanced Heat Pumps

### 14 SEER, R-410A, Split System

#### Compressor

- High-efficiency scroll compressor
- R-410A refrigerant
- Grommet-mounted compressor for quiet operation
- Heavy-duty compressor sound blanket for quiet operation

#### Cabinet

- Full metal louvered panel coil guard protection
- Controls located in corner post for easy installation and service
- Baked polyester paint finish over galvanized steel for maximum durability
- PVC-coated wire fan discharge grille

#### Coil

- Enhanced aluminum fins and copper tubing for high efficiency and capacity
- Raised coil prevents debris from collecting in bottom of coil and causing loss of airflow

#### Components

- Full metal louvered panels remove with just two screws per panel for easy coil cleaning and service
- Bi-directional filter drier for long-lasting durability and system protection
- Discharge muffler for quiet operation
- Reliable, solid state, time-initiated temperature terminated defrost system
- Low pressure switch for loss of charge system protection
- Defrost control has short cycle protection to protect the compressor with field selectable 30/60/90 minute defrost cycle

#### Warranties\*

- 10 year limited warranty on compressor
- 10 year limited warranty on all parts
- ARI certified
- UL listed

\*On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

### Heat Pumps

Prices Available on Request

Dimensions H x W x D (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
29.75 x 24.75 x 26.75	1	EA	63556	4SHP14LE118P 14 SEER 208/230V 1PH HEAT PUMP R410A
29.75 x 24.75 x 26.75	1	EA	63557	4SHP14LE124P 14 SEER 208/230V 1PH HEAT PUMP R410A
33.75 x 24.75 x 26.75	1	EA	63561	4SHP14LE130P 14 SEER 208/230V 1PH HEAT PUMP R410A
37.75 x 29.38 x 31.25	1	EA	63565	4SHP14LE136P 14 SEER 208/230V 1PH HEAT PUMP R410A
37.75 x 35.75 x 37.75	1	EA	63566	4SHP14LE142P 14 SEER 208/230V 1PH HEAT PUMP R410A
37.75 x 35.75 x 37.75	1	EA	63574	4SHP14LE148P 14 SEER 208/230V 1PH HEAT PUMP R410A
43.75 x 35.75 x 37.75	1	EA	63585	4SHP14LE160P 14 SEER 208/230V 1PH HEAT PUMP R410A

### Accessories

Used With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
All SHP14 Models	1	EA	60848	AFOSL500-1 FOSSIL FUEL KIT
All SHP14 Models	1	EA	61702	45F08 T6-1469 LOW AMBIENT KIT
4SHP14LE118, 24, 30	1	EA	67837	H4TXV01-1 R-410A EXPANSION VALVE
4SHP14LE136, 42, 48	1	EA	67838	H4TXV02-1 R-410A EXPANSION VALVE
4SHP14LE160	1	EA	67839	H4TXV03-1 R-410A EXPANSION VALVE



# 4SHP14LE Heat Pump Performance Ratings



Outdoor Model	Indoor Model Evap. Coil or Air Handler <sup>3</sup>	Furnace	Cooling				Heating				CFM	Refrig. Connection		Refrig. Line Size <sup>4</sup>	Indoor Expansion Valve <sup>2</sup>	
			SEER	EER	AHRI Rated Cap. <sup>2</sup>	Sens. Cap.	HSPF	47°		17°		Outdoor	Indoor			
								Btuh	COP	Btuh						COP
			Suction	Suction												
4SHP14LE118P-5		BCS2M18C00NA-1P	14.0	11.5	18,000	13,500	7.7	16,600	3.4	10,500	2.26	650	3/4	3/4	3/4	H4TXV01
		BCS2M24V00NA1P	15.0	12.5	18,000	13,500	8.0	16,600	3.4	10,100	2.20	650	3/4	3/4	3/4	H4TXV01
	E*1P23B	EFV08BC	15.0	12.5	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24B	EFV08BC	15.0	12.5	18,000	13,500	8.2	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P23A	A80DF1E045A12	14.5	12.0	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24A	A80DF1E045A12	14.0	12.0	18,000	13,500	8.2	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P23B	A80DF1E070B12	14.5	12.0	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24B	A80DF1E070B12	14.5	12.0	18,000	13,500	8.2	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P23A	A80DF2V070A12*	15.0	12.5	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24A	A80DF2V070A12*	15.0	12.5	18,000	13,500	8.2	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P23A	A80UH1E045A12*	14.5	12.0	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24A	A80UH1E045A12*	14.5	12.0	18,000	13,500	8.2	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P23B	A80UH1E070B12*	14.5	12.0	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24B	A80UH1E070B12*	14.0	12.0	18,000	13,500	8.2	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P23A	A80UH2V070A12*	15.0	12.5	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24A	A80UH2V070A12*	15.0	12.5	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P23B	A80UH2V090B12*	15.0	12.5	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24B	A80UH2V090B12*	15.0	12.5	18,000	13,500	8.2	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P23B	A80UH2V090B16*	15.0	12.5	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24B	A80UH2V090B16*	15.0	12.5	18,000	13,500	8.2	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P23B	A95DF1E045B12S	14.0	12.0	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24B	A95DF1E045B12S	14.0	12.0	18,000	13,500	8.2	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P23B	A95DF2V045B12S	15.0	12.5	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24B	A95DF2V045B12S	15.0	12.5	18,000	13,500	8.2	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P23B	A95DF2V070B16S	14.5	12.5	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24B	A95DF2V070B16S	14.5	12.5	18,000	13,500	8.2	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P23B	A95UH1E045B12S	14.0	12.0	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24B	A95UH1E045B12S	14.0	12.0	18,000	13,500	8.2	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P23B	A95UH1E070B12S	14.5	12.0	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24B	A95UH1E070B12S	14.0	12.0	18,000	13,500	8.2	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P23B	A95UH2V045B12S	14.5	12.5	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24B	A95UH2V045B12S	14.5	12.5	18,000	13,500	8.2	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P23B	A95UH2V070B12S	15.0	12.5	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24B	A95UH2V070B12S	15.0	12.5	18,000	13,500	8.2	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P23B	A96DFM0V070B12*	15.0	12.5	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24B	A96DFM0V070B12*	15.0	12.5	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P23B	A96UHMV070B12*	15.0	12.5	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24B	A96UHMV070B12*	15.0	12.5	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P23B	LBF80-84/95V14	14.5	12.5	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24B	LBF80-84/95V14	14.5	12.5	18,000	13,500	8.2	17,400	3.6	10,400	2.30	650	3/4	3/4	3/4	H4TXV01
	E*1P23B	LBR80-84/95V14	14.5	12.0	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01
	E*1P24B	LBR80-84/95V14	14.5	12.0	18,000	13,500	8.2	17,400	3.6	10,400	2.30	650	3/4	3/4	3/4	H4TXV01
E*1P23B	LHF84-95V12	15.0	12.5	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01	
E*1P24B	LHF84-95V12	15.0	12.5	18,000	13,500	8.2	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01	
E*1P23B	LHR84-95V12	14.5	12.5	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01	
E*1P24B	LHR84-95V12	14.5	12.5	18,000	13,500	8.2	17,400	3.6	10,400	2.40	650	3/4	3/4	3/4	H4TXV01	
E*1P23B	LUF80-57/72V12	15.0	12.5	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01	
E*1P24B	LUF80-57/72V12	15.0	12.5	18,000	13,500	8.2	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01	
E*1P23B	LUF80-84/95V14	15.0	12.5	18,000	13,500	8.5	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01	
E*1P24B	LUF80-84/95V14	15.0	12.5	18,000	13,500	8.2	17,400	3.7	10,400	2.40	650	3/4	3/4	3/4	H4TXV01	
4SHP14LE124P-5		BCS2M24C00NA-1P	14.0	12.0	23,400	17,100	8.2	22,000	3.4	14,000	2.30	850	3/4	3/4	3/4	H4TXV01
		BCS2M24V00NA1P	15.0	12.5	23,400	17,100	8.5	21,600	3.6	13,600	2.50	850	3/4	3/4	3/4	H4TXV01
	E*1P23B	EFV08BC	15.0	12.5	23,400	17,100	8.2	21,600	3.6	14,000	2.50	850	3/4	3/4	3/4	H4TXV01
	E*1P24B	EFV08BC	15.0	12.5	23,400	17,100	8.5	21,600	3.6	14,000	2.50	850	3/4	3/4	3/4	H4TXV01
	E*1P29B	EFV08BC	15.0	12.5	23,400	17,100	8.5	21,600	3.6	14,000	2.50	850	3/4	3/4	3/4	H4TXV01
	E*1P23A	A80DF1E045A12	15.0	12.5	23,400	17,100	8.2	21,600	3.6	14,000	2.50	850	3/4	3/4	3/4	H4TXV01
	E*1P24A	A80DF1E045A12	15.0	12.5	23,400	17,100	8.5	21,600	3.6	14,000	2.50	850	3/4	3/4	3/4	H4TXV01
	E*1P29A	A80DF1E045A12	15.0	12.5	23,400	17,100	8.5	21,600	3.6	14,000	2.50	850	3/4	3/4	3/4	H4TXV01
	E*1P23B	A80DF1E070B12	15.0	12.5	23,400	17,100	8.2	21,600	3.6	14,000	2.50	850	3/4	3/4	3/4	H4TXV01
	E*1P24B	A80DF1E070B12	15.0	12.5	23,400	17,100	8.5	21,600	3.6	14,000	2.50	850	3/4	3/4	3/4	H4TXV01
	E*1P29B	A80DF1E070B12	15.0	12.5	23,400	17,100	8.5	21,600	3.6	14,000	2.50	850	3/4	3/4	3/4	H4TXV01
	E*1P23A	A80DF2V070A12*	15.0	12.5	23,400	17,100	8.2	21,600	3.6	14,000	2.50	850	3/4	3/4	3/4	H4TXV01
	E*1P24A	A80DF2V070A12*	15.0	12.5	23,400	17,100	8.5	21,600	3.6	14,000	2.50	850	3/4	3/4	3/4	H4TXV01



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Outdoor Model	Indoor Model Evap. Coil or Air Handler <sup>3</sup>	Furnace	Cooling				Heating				CFM	Refrig. Connection		Refrig. Line Size <sup>4</sup>	Indoor Expansion Valve <sup>2</sup>	
			SEER	EER	AHRI Rated Cap. <sup>1</sup>	Sens. Cap.	HSPF	47°		17°		Outdoor	Indoor			
								Btuh	COP	Btuh						COP
												Suction	Suction	Suction	TXV	
45HP14LE130P-5 (Continued)	E*1P29A	A80DF1E045A12	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30A	A80DF1E045A12	14.0	12.0	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36A	A80DF1E045A12	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P29B	A80DF1E070B12	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30B	A80DF1E070B12	14.0	12.0	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36B	A80DF1E070B12	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P29B	A80DF1E090B16	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30B	A80DF1E090B16	14.0	12.0	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36B	A80DF1E090B16	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P29A	A80DF2V070A12*	15.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30A	A80DF2V070A12*	14.5	12.5	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36A	A80DF2V070A12*	15.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P29B	A80DF2V090B16*	15.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30B	A80DF2V090B16*	14.5	12.5	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36B	A80DF2V090B16*	15.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30C	A80DF2V110C20*	15.0	12.5	28,000	20,700	8.5	26,200	3.6	15,500	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36C	A80DF2V110C20*	15.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P29A	A80UH1E045A12*	14.0	12.0	29,000	21,500	8.2	26,200	3.5	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30A	A80UH1E045A12*	13.5	11.5	28,000	20,700	8.2	26,200	3.5	15,600	2.30	1,050	3/4	3/4	3/4	H4TXV01
	E*1P29B	A80UH1E070B12*	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30B	A80UH1E070B12*	14.0	12.0	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36B	A80UH1E070B12*	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P29B	A80UH1E090B16*	14.5	12.5	29,000	21,500	8.5	26,200	3.5	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30B	A80UH1E090B16*	14.0	12.0	28,000	20,700	8.5	26,200	3.5	15,600	2.30	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36B	A80UH1E090B16*	14.0	12.0	29,000	21,500	8.5	26,200	3.5	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P29A	A80UH2V070A12*	15.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30A	A80UH2V070A12*	14.5	12.5	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36A	A80UH2V070A12*	15.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P29B	A80UH2V090B12*	15.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30B	A80UH2V090B12*	15.0	12.5	28,000	20,700	8.5	26,200	3.6	15,500	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36B	A80UH2V090B12*	15.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P29B	A80UH2V090B16*	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30B	A80UH2V090B16*	14.0	12.0	28,000	20,700	8.5	26,200	3.6	15,600	2.30	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36B	A80UH2V090B16*	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30C	A80UH2V090C20*	15.0	12.5	28,000	20,700	8.5	26,200	3.6	15,500	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36C	A80UH2V090C20*	15.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P29B	A95DF1E045B12S	14.0	12.0	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30B	A95DF1E045B12S	14.0	12.0	28,000	20,700	8.2	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36B	A95DF1E045B12S	14.0	12.0	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P29B	A95DF1E070B16S	14.0	12.0	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30B	A95DF1E070B16S	14.0	12.0	28,000	20,700	8.2	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36B	A95DF1E070B16S	14.0	12.0	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30C	A95DF1E090C16S	14.0	12.0	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36C	A95DF1E090C16S	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P29B	A95DF2V045B12S	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30B	A95DF2V045B12S	14.0	12.0	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36B	A95DF2V045B12S	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P29B	A95DF2V070B16S	14.0	12.0	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30B	A95DF2V070B16S	14.0	12.0	28,000	20,700	8.2	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36B	A95DF2V070B16S	14.0	12.0	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30C	A95DF2V090C20S	14.5	12.0	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36C	A95DF2V090C20S	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
E*1P30C	A95DF2V110C20S	14.0	12.0	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01	
E*1P36C	A95DF2V110C20S	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01	
E*1P29B	A95UH1E045B12S	14.0	12.0	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01	
E*1P30B	A95UH1E045B12S	14.0	12.0	28,000	20,700	8.2	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01	
E*1P36B	A95UH1E045B12S	14.0	12.0	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01	
E*1P29B	A95UH1E070B12S	14.0	12.0	29,000	21,500	8.5	26,200	3.5	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01	
E*1P30B	A95UH1E070B12S	13.5	11.5	28,000	20,700	8.5	26,200	3.5	15,600	2.30	1,050	3/4	3/4	3/4	H4TXV01	
E*1P36B	A95UH1E070B12S	14.0	12.0	29,000	21,500	8.5	26,200	3.5	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01	
E*1P30C	A95UH1E090C16S	14.5	12.0	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01	
E*1P36C	A95UH1E090C16S	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01	
E*1P29B	A95UH2V045B12S	14.0	12.0	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01	
E*1P30B	A95UH2V045B12S	14.0	12.0	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01	
E*1P36B	A95UH2V045B12S	14.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01	

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Outdoor Model	Indoor Model Evap. Coil or Air Handler <sup>3</sup>	Furnace	Cooling				Heating				CFM	Refrig. Connection		Refrig. Line Size <sup>4</sup>	Indoor Expansion Valve <sup>2</sup>	
			SEER	EER	AHR Rated Cap. <sup>1</sup>	Sens. Cap.	HSPF	47°		17°		Outdoor	Indoor			
								Btuh	COP	Btuh						COP
45HP14LE130P-5 (Continued)	E*1P29B	A95UH2V070B12S	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30B	A95UH2V070B12S	14.0	12.0	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36B	A95UH2V070B12S	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30C	A95UH2V090C12S	14.5	12.5	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36C	A95UH2V090C12S	15.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P29B	A96DFMV070B12*	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30B	A96DFMV070B12*	14.5	12.5	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36B	A96DFMV070B12*	15.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30C	A96DFMV090C16*	14.5	12.5	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36C	A96DFMV090C16*	15.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P29B	A96UHMV070B12*	15.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30B	A96UHMV070B12*	14.5	12.5	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36B	A96UHMV070B12*	15.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30C	A96UHMV090C12*	15.0	12.5	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36C	A96UHMV090C12*	15.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P29B	LB*80*84/95V14	14.0	12.0	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30C	LB*80*84/95V14	14.0	12.0	28,000	20,700	8.5	26,200	3.5	15,600	2.30	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36C	LB*80*84/95V14	14.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P29B	LH*80*84/95V12	14.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30C	LH*80*84/95V12	14.0	12.0	28,000	20,700	8.5	26,200	3.5	15,600	2.30	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36C	LH*80*84/95V12	14.0	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P29B	LUF112-125V20	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
	E*1P30C	LUF112-125V20	14.0	12.0	28,000	20,700	8.5	26,200	3.6	15,600	2.30	1,050	3/4	3/4	3/4	H4TXV01
	E*1P36C	LUF112-125V20	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01
E*1P29B	LUF57-72V12	14.0	12.0	29,000	21,500	8.5	26,200	3.5	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01	
E*1P30C	LUF57-72V12	13.5	11.5	28,000	20,700	8.5	26,200	3.5	15,600	2.30	1,050	3/4	3/4	3/4	H4TXV01	
E*1P36C	LUF57-72V12	14.0	12.0	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01	
E*1P29B	LUF84-95V14	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01	
E*1P30C	LUF84-95V14	14.0	12.0	28,000	20,700	8.5	26,200	3.6	15,600	2.40	1,050	3/4	3/4	3/4	H4TXV01	
E*1P36C	LUF84-95V14	14.5	12.5	29,000	21,500	8.5	26,200	3.6	17,000	2.50	1,050	3/4	3/4	3/4	H4TXV01	
45HP14LE136P-5		BCS2M36C00NA-1P	14.0	12.0	34,400	25,800	8.2	34,200	3.5	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
		BCS2M36V00NA1P	15.0	12.5	34,600	26,000	8.5	34,000	3.6	21,600	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36B	EFV12BC	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43B	EFV12BC	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	EFV16CC	15.0	12.5	34,600	26,000	8.5	34,000	3.6	21,000	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	EFV16CC	15.0	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36A	A80DF1E045A12	14.0	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P36B	A80DF1E070B12	14.0	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43B	A80DF1E070B12	14.0	12.0	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36B	A80DF1E090B16	14.0	12.0	34,600	26,000	8.5	34,000	3.6	21,200	2.40	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43B	A80DF1E090B16	14.0	12.0	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A80DF1E110C20	14.0	12.5	34,600	26,000	8.5	34,000	3.6	21,200	2.40	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A80DF1E110C20	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36A	A80DF2V070A12*	14.5	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P36B	A80DF2V090B16*	14.5	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43B	A80DF2V090B16*	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A80DF2V110C20*	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A80DF2V110C20*	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36B	A80UH1E070B12*	14.0	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43B	A80UH1E070B12*	14.0	12.0	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36B	A80UH1E090B16*	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43B	A80UH1E090B16*	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A80UH1E090C20*	14.0	12.5	34,600	26,000	8.5	34,000	3.6	21,200	2.40	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A80UH1E090C20*	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A80UH1E110C20*	14.0	12.5	34,600	26,000	8.5	34,000	3.6	21,200	2.40	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A80UH1E110C20*	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36A	A80UH2V070A12*	14.5	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P36B	A80UH2V090B12*	14.5	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43B	A80UH2V090B12*	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36B	A80UH2V090B16*	14.0	12.0	34,600	26,000	8.2	34,000	3.6	21,200	2.40	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43B	A80UH2V090B16*	14.0	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.40	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A80UH2V090C20*	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
E*1P43C	A80UH2V090C20*	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02	
E*1P36C	A80UH2V110C20*	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02	
E*1P43C	A80UH2V110C20*	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02	

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Outdoor Model	Indoor Model Evap. Coil or Air Handler <sup>3</sup>	Furnace	Cooling				Heating				CFM	Refrig. Connection		Refrig. Line Size <sup>4</sup>	Indoor Expansion Valve <sup>2</sup>	
			SEER	EER	AHR1 Rated Cap. <sup>1</sup>	Sens. Cap.	HSPF	47°		17°		Outdoor Suction	Indoor Suction			
								Btuh	COP	Btuh						COP
4SHP14LE136P-5 (Continued)	E*1P36B	A95DF1E045B12S	14.0	12.0	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43B	A95DF1E045B12S	14.0	12.0	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A95DF1E090C16S	14.0	12.0	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A95DF1E090C16S	14.0	12.0	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A95DF1E110C20S	14.0	12.0	34,600	26,000	8.5	34,000	3.6	21,200	2.40	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A95DF1E110C20S	14.0	12.0	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36B	A95DF2V045B12S	14.0	12.0	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43B	A95DF2V045B12S	14.0	12.0	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36B	A95DF2V070B16S	14.0	12.0	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43B	A95DF2V070B16S	14.0	12.0	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A95DF2V090C20S	14.5	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A95DF2V090C20S	14.0	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A95DF2V110C20S	14.0	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A95DF2V110C20S	14.0	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A95UH1E090C16S	14.0	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A95UH1E090C16S	14.0	12.0	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A95UH1E110C20S	14.0	12.0	34,600	26,000	8.5	34,000	3.6	21,200	2.40	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A95UH1E110C20S	14.0	12.0	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36B	A95UH2V045B12S	14.0	12.0	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43B	A95UH2V045B12S	14.0	12.0	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36B	A95UH2V070B12S	14.0	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43B	A95UH2V070B12S	14.0	12.0	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A95UH2V090C12S	14.5	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A95UH2V090C12S	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A95UH2V090C16S	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A95UH2V090C16S	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A95UH2V090C20S	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A95UH2V090C20S	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A95UH2V110C16S	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A95UH2V110C16S	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A95UH2V110C20S	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A95UH2V110C20S	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36B	A96DFMV070B12*	14.0	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43B	A96DFMV070B12*	14.0	12.0	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A96DFMV090C16*	14.5	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A96DFMV090C16*	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A96DFMV090C20*	14.5	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A96DFMV090C20*	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A96DFMV110C20*	14.5	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A96DFMV110C20*	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36B	A96UHMV070B12*	14.0	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43B	A96UHMV070B12*	14.0	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A96UHMV090C12*	14.5	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A96UHMV090C12*	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
	E*1P36C	A96UHMV090C16*	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02
	E*1P43C	A96UHMV090C16*	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02
E*1P36C	A96UHMV110C20*	14.5	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02	
E*1P43C	A96UHMV110C20*	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02	
E*1P36C	LB*80*84/95V14	14.0	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.40	1,250	7/8	3/4	7/8	H4TXV02	
E*1P43C	LB*80*84/95V14	14.0	12.0	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02	
E*1P36C	LH*80*84/95V12	14.0	12.0	34,600	26,000	8.2	34,000	3.6	21,200	2.40	1,250	7/8	3/4	7/8	H4TXV02	
E*1P43C	LH*80*84/95V12	14.0	12.0	34,600	26,000	8.5	34,000	3.6	21,800	2.40	1,250	7/8	7/8	7/8	H4TXV02	
E*1P36C	LUF112-125V20	14.5	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02	
E*1P43C	LUF112-125V20	14.5	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02	
E*1P36C	LUF57-72V12	13.5	12.0	34,600	26,000	8.2	34,000	3.5	21,200	2.40	1,250	7/8	3/4	7/8	H4TXV02	
E*1P43C	LUF57-72V12	13.5	12.0	34,600	26,000	8.5	34,000	3.6	21,800	2.40	1,250	7/8	7/8	7/8	H4TXV02	
E*1P36C	LUF84-95V14	14.0	12.5	34,600	26,000	8.2	34,000	3.6	21,200	2.50	1,250	7/8	3/4	7/8	H4TXV02	
E*1P43C	LUF84-95V14	14.0	12.5	34,600	26,000	8.5	34,000	3.6	21,800	2.50	1,250	7/8	7/8	7/8	H4TXV02	
4SHP14LE142P-5		BCS2M42C00NA-1P	14.0	12.0	42,000	30,700	8.2	42,000	3.5	28,800	2.40	1,400	7/8	7/8	7/8	H4TXV02
		BCS2M42V00NA1P	15.0	12.5	42,000	30,700	8.5	42,000	3.6	28,000	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	EFV16CC	14.5	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P62D	EFV20DC	15.0	12.5	42,000	30,700	8.5	42,000	3.6	28,000	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	A80DF1E110C20	15.0	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
E*1P49C	A80DF2V110C20*	15.0	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02	

*Continued on the Following Page*

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Outdoor Model	Indoor Model Evap. Coil or Air Handler <sup>3</sup>	Furnace	Cooling				Heating				CFM	Refrig. Connection		Refrig. Line Size <sup>4</sup>	Indoor Expansion Valve <sup>2</sup> TXV	
			SEER	EER	AHRI Rated Cap. <sup>1</sup>	Sens. Cap.	HSPF	47°		17°		Outdoor	Indoor			
								Btuh	COP	Btuh						COP
45HP14LE142P-5 (Continued)	E*1P49C	A80UH1E090C20*	15.0	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	A80UH1E110C20*	15.0	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P62D	A80UH1E135D20*	15.0	12.5	42,000	30,700	8.2	42,000	3.6	28,000	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	A80UH2V090C20*	15.0	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	A80UH2V110C20*	15.0	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P62D	A80UH2V135D20*	15.0	12.5	42,000	30,700	8.5	42,000	3.6	28,000	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	A95DF1E110C20S	15.0	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	A95DF2V090C20S	14.5	12.5	42,000	30,700	8.2	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	A95DF2V110C20S	14.5	12.5	42,000	30,700	8.2	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	A95UH1E090C16S	14.5	12.5	42,000	30,700	8.2	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	A95UH1E110C20S	15.0	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P62D	A95UH1E135D20S	15.0	12.5	42,000	30,700	8.5	42,000	3.6	28,000	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	A95UH2V090C16S	15.0	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	A95UH2V090C20S	15.0	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	A95UH2V110C16S	15.0	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	A95UH2V110C20S	15.0	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P62D	A95UH2V135D20S	15.0	12.5	42,000	30,700	8.5	42,000	3.6	28,000	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	A96DFMV090C16*	15.0	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	A96DFMV090C20*	14.5	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	A96DFMV110C20*	15.0	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	A96UHMV090C16*	15.0	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	A96UHMV090C20*	15.0	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
	E*1P49C	A96UHMV110C20*	15.0	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02
E*1P62D	A96UHMV135D20*	15.0	12.5	42,000	30,700	8.5	42,000	3.6	28,000	2.30	1,400	7/8	7/8	7/8	H4TXV02	
E*1P49C	LB*80*84/95V14	14.0	12.0	42,000	30,700	8.2	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02	
E*1P49C	LUF112-125V20	15.0	12.5	42,000	30,700	8.5	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02	
E*1P49C	LUF84-95V14	14.0	12.5	42,000	30,700	8.2	42,000	3.6	27,200	2.30	1,400	7/8	7/8	7/8	H4TXV02	
45HP14LE148P-5		BCS2M48CO0NA-1P	14.0	12.0	48,000	34,600	8.2	46,500	3.4	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
		BCS2M48V00NA1P	15.0	12.5	48,000	34,600	8.5	45,500	3.3	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P49C	EFV16CC	14.0	12.0	48,000	34,600	8.2	46,500	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P62D	EFV20DC	14.0	12.0	48,000	34,600	8.2	46,500	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P49C	A80DF1E110C20	14.5	12.5	48,000	34,600	8.2	46,000	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P49C	A80DF2V110C20*	15.0	12.5	48,000	34,600	8.5	46,000	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P62D	A80UH1E135D20*	14.5	12.5	48,000	34,600	8.2	46,000	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P49C	A80UH2V090C20*	14.5	12.5	48,000	34,600	8.2	46,000	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P49C	A80UH2V110C20*	14.5	12.5	48,000	34,600	8.2	46,000	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P62D	A80UH2V135D20*	14.5	12.5	48,000	34,600	8.2	46,000	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P49C	A95DF1E110C20S	14.5	12.5	48,000	34,600	8.2	46,000	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P49C	A95DF2V090C20S	14.0	12.0	48,000	34,600	8.2	46,500	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P49C	A95DF2V110C20S	14.0	12.0	48,000	34,600	8.2	46,500	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P62D	A95UH1E135D20S	14.0	12.0	48,000	34,600	8.2	46,000	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P49C	A95UH2V090C16S	14.0	12.0	48,000	34,600	8.2	46,500	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P49C	A95UH2V090C20S	14.0	12.0	48,000	34,600	8.2	46,500	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P49C	A95UH2V110C16S	14.5	12.5	48,000	34,600	8.2	46,000	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P49C	A95UH2V110C20S	14.0	12.0	48,000	34,600	8.2	46,500	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P62D	A95UH2V135D20S	14.5	12.5	48,000	34,600	8.2	46,000	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P49C	A96DFMV090C16*	14.0	12.0	48,000	34,600	8.2	46,500	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P49C	A96DFMV090C20*	14.0	12.0	48,000	34,600	8.2	46,500	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P49C	A96DFMV110C20*	14.0	12.0	48,000	34,600	8.2	46,500	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
	E*1P49C	A96UHMV090C16*	14.5	12.5	48,000	34,600	8.2	46,000	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02
E*1P49C	A96UHMV090C20*	14.5	12.5	48,000	34,600	8.2	46,000	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02	
E*1P49C	A96UHMV110C20*	14.5	12.5	48,000	34,600	8.2	46,000	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02	
E*1P62D	A96UHMV135D20*	14.5	12.5	48,000	34,600	8.2	46,000	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02	
E*1P49C	LB*80*84/95V14	13.5	11.5	48,000	34,600	8.2	46,500	3.4	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02	
E*1P49C	LUF112-125V20	14.0	12.5	48,000	34,600	8.2	46,500	3.5	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02	
E*1P49C	LUF84-95V14	14.0	12.0	48,000	34,600	8.2	46,500	3.4	29,600	2.50	1,600	7/8	7/8	7/8	H4TXV02	
45HP14LE160P-5		BCS2M60CO0NA-1P	14.0	12.0	58,000	42,300	8.2	55,000	3.4	36,000	2.50	1,800	7/8	7/8	1 1/8	H4TXV03
		BCS2M60V00NA1P	15.0	12.5	58,000	42,300	8.5	55,000	3.5	36,000	2.50	1,800	7/8	7/8	1 1/8	H4TXV03

**NOTE:**

- <sup>1</sup> Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240
- <sup>2</sup> Required to achieve AHRI rating. If NA (Not Applicable) is in the piston column, then TXV is required.
- <sup>3</sup> A blower time delay relay is required to achieve AHRI rating. This feature is standard on all Allied Air Enterprises furnace and AH products.
- <sup>4</sup> All liquid lines are 3/8".



## 4SHP13LE Enhanced Heat Pumps

13 SEER, R-410A, Split System



### Compressor

- High efficiency scroll compressor
- R-410A refrigerant
- Grommet mounted compressor for quiet operation
- Heavy duty compressor sound blanket for quiet operation

### Cabinet

- Full metal louvered jacket coil guard protection
- Controls located in corner post for easy installation and service
- Baked polyester paint finish over galvanized steel for maximum durability
- PVC coated wire fan discharge grille

### Coil

- Enhanced aluminum fins and copper tubing for high efficiency and capacity
- Raised coil prevents debris from collecting in bottom of coil and causing loss of airflow

### Components

- Full metal jacket panels remove with just two screws per panel for easy coil cleaning and service
- Bi-directional filter drier for long-lasting durability and system protection
- Discharge muffler for quiet operation
- Reliable, solid-state, time-initiated, temperature-terminated defrost system
- Low pressure switch for loss of charge protection
- Defrost control has short cycle protection to protect the compressor with field selectable 30/60/90 minute defrost cycle

### Warranties\*

- 10 year limited warranty on compressor
- 10 year limited warranty on all parts
- ARI certified
- UL listed

\*On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

### Heat Pumps

Prices Available on Request

Dimensions (H x W x D)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
33-3/4 x 24-3/4 x 26-3/4	1	EA	84345	4SHP13LE118P-5 13 SEER 208/230V 1PH R-410A HEAT PUMP
33-3/4 x 29-3/8 x 31-1/4	1	EA	84346	4SHP13LE124P-5 13 SEER 208/230V 1PH R-410A HEAT PUMP
33-3/4 x 29-3/8 x 31-1/4	1	EA	84347	4SHP13LE130P-5 13 SEER 208/230V 1PH R-410A HEAT PUMP
33-3/4 x 29-3/8 x 31-1/4	1	EA	84348	4SHP13LE136P-5 13 SEER 208/230V 1PH R-410A HEAT PUMP
29-3/4 x 24-3/4 x 26-3/4	1	EA	63944	4SHP13LE142P-1 13 SEER 208/230V 1PH R-410A HEAT PUMP
33-3/4 x 29-3/8 x 31-1/4	1	EA	84349	4SHP13LE142P-5 13 SEER 208/230V 1PH R-410A HEAT PUMP
29-3/4 x 24-3/4 x 26-3/4	1	EA	63948	4SHP13LE148P-1 13 SEER 208/230V 1PH R-410A HEAT PUMP
43-3/4 x 29-3/8 x 31-1/4	1	EA	84350	4SHP13LE148P-5 13 SEER 208/230V 1PH R-410A HEAT PUMP
43-3/4 x 29-3/8 x 31-1/4	1	EA	84351	4SHP13LE160P-5 13 SEER 208/230V 1PH R-410A HEAT PUMP

### Accessories

For Use on the Following Models	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
4SHP13LE118, 24, 30	1	EA	67837	H4TXV01-1 R-410A EXPANSION VALVE
4SHP13LE136, 42	1	EA	67838	H4TXV02-1 R-410A EXPANSION VALVE
4SHP13LE148, 60	1	EA	67839	H4TXV03-1 R-410A EXPANSION VALVE





# 4SHP13LE Heat Pump Performance Ratings



Outdoor Model	Indoor Model Evap. Coil or Air Handler <sup>3</sup>	Furnace	Cooling				Heating				CFM	Refrig. Connection		Refrig Line Size <sup>4</sup>	Indoor Expansion Valve <sup>2</sup>			
			SEER	EER	AHRI Rated Cap. <sup>1</sup>	Sens. Cap.	HSPF	47°		17°		Out-door	In-door		Piston	TKV		
								Butuh	COP	Butuh							COP	
																		Suct.
4SHP13LE118P-5	BCS2M18C00NA-1P		13.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01	
	BCS2M24V00NA1P		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01	
	BCS3M18C****P		13.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01	
	E*1P18A	A80DF1E045A12		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P24A	A80DF1E045A12		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P18B	A80DF1E070B12		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P24B	A80DF1E070B12		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P18A	A80DF2V070A12*		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P24A	A80DF2V070A12*		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P18B	A80DF2V090B16*		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P24B	A80DF2V090B16*		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P18A	A80UH1E045A12*		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P24A	A80UH1E045A12*		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P18B	A80UH1E070B12*		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P24B	A80UH1E070B12*		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P18A	A80UH2V070A12*		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P24A	A80UH2V070A12*		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P18B	A80UH2V090B12*		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P24B	A80UH2V090B12*		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P18B	A80UH2V090B16*		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P24B	A80UH2V090B16*		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P18B	A95DF1E045B12S		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P24B	A95DF1E045B12S		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P18B	A95DF2V045B12S		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P24B	A95DF2V045B12S		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P18B	A95DF2V070B16S		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P24B	A95DF2V070B16S		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P18B	A95UH1E045B12S		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P24B	A95UH1E045B12S		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P18B	A95UH1E070B12S		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P24B	A95UH1E070B12S		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P18B	A95UH2V045B12S		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P24B	A95UH2V045B12S		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P18B	A95UH2V070B12S		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P24B	A95UH2V070B12S		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P18B	A95UH2V090B12S		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P24B	A95UH2V090B12S		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P18B	A96DFMV070B12*		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P24B	A96DFMV070B12*		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P18B	A96UHMV070B12*		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P24B	A96UHMV070B12*		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E*1P18B	LBF80-84/95V14		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
E*1P24B	LBF80-84/95V14		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01	
E*1P18B	LBR80-84/95V14		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01	
E*1P24B	LBR80-84/95V14		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01	
E*1P18B	LHF84-95V12		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01	
E*1P24B	LHF84-95V12		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01	
E*1P18B	LHR84-95V12		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01	
E*1P24B	LHR84-95V12		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01	
E*1P18B	LUF80-57/72V12		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01	
E*1P24B	LUF80-57/72V12		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01	
E*1P18B	LUF80-84/95V14		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01	
E*1P24B	LUF80-84/95V14		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01	
4SHP13LE124P-5	BCS2M24C00NA-1P		13.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01	
	BCS2M24V00NA1P		13.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01	
	BCS3M24C****P		13.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01	
	E*1P23A	A80DF1E045A12		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P24A	A80DF1E045A12		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P23B	A80DF1E070B12		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P24B	A80DF1E070B12		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P23A	A80DF2V070A12*		14.0	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P24A	A80DF2V070A12*		14.0	11.0	23,000	16,790	7.7	21,400	3.3								

Continued from the Previous Page

Outdoor Model	Indoor Model Evap. Coil or Air Handler <sup>3</sup>	Furnace	Cooling				Heating				CFM	Refrig. Connection		Refrig. Line Size <sup>4</sup>	Indoor Expansion Valve <sup>2</sup>		
			SEER	EER	AHRI Rated Cap. <sup>1</sup>	Sens. Cap.	HSPF	47°		17°		Out-door	In-door		Piston	TKV	
								Btuh	COP	Btuh							COP
45HP13LE124P-5 (Continued)	E*1P24B	A80DF2V090B16*	14.0	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P23A	A80UH1E045A12*	13.5	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P24A	A80UH1E045A12*	14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P23B	A80UH1E070B12*	14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P24B	A80UH1E070B12*	14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P23A	A80UH2V070A12*	14.0	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P24A	A80UH2V070A12*	14.0	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P23B	A80UH2V090B12*	14.0	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P24B	A80UH2V090B12*	14.0	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P23B	A80UH2V090B16*	13.5	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P24B	A80UH2V090B16*	14.0	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P23B	A95DF1E045B12S	13.5	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P24B	A95DF1E045B12S	14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P23B	A95DF2V045B12S	14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P24B	A95DF2V045B12S	14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P23B	A95DF2V070B16S	14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P24B	A95DF2V070B16S	14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P23B	A95UH1E045B12S	13.5	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P24B	A95UH1E045B12S	14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P23B	A95UH1E070B12S	13.5	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P24B	A95UH1E070B12S	14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P23B	A95UH2V045B12S	14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P24B	A95UH2V045B12S	14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P23B	A95UH2V070B12S	14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P24B	A95UH2V070B12S	14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P23B	A96DFMV070B12*	14.0	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P24B	A96DFMV070B12*	14.0	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P23B	A96UHMV070B12*	14.0	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P24B	A96UHMV070B12*	14.0	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P23B	LBR84-95V14	13.5	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P24B	LBR84-95V14	13.5	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
	E*1P23B	LHF84-95V12	13.5	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E*1P24B	LHF84-95V12	13.5	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01	
E*1P23B	LUF57-72V12	13.5	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01	
E*1P24B	LUF57-72V12	13.5	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01	
E*1P23B	LUF84-95V14	13.5	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01	
E*1P24B	LUF84-95V14	13.5	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01	
45HP13LE130P-5	BCS2M30CO0NA-1P		13.0	11.0	29,000	21,460	7.7	27,000	3.4	17,000	2.20	1,000	3/4	7/8	3/4	.062	H4TXV01
	BCS2M36V00NA1P		14.0	11.0	29,000	21,460	7.7	27,000	3.4	17,000	2.20	1,000	3/4	7/8	3/4	.062	H4TXV01
	BCS3M30C****P		13.0	11.0	29,000	21,460	7.7	27,000	3.4	17,000	2.20	1,000	3/4	7/8	3/4	.062	H4TXV01
	E*1P29A	A80DF1E045A12	13.5	11.0	29,000	21,460	7.7	27,000	3.4	17,000	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29B	A80DF1E070B12	14.0	11.0	29,000	21,460	7.7	26,800	3.4	16,800	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29B	A80DF1E090B16	14.0	11.0	29,000	21,460	7.7	26,800	3.4	16,800	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29A	A80DF2V070A12*	13.5	11.0	29,000	21,460	7.7	27,000	3.4	16,800	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29B	A80DF2V090B16*	14.0	11.0	29,000	21,460	7.7	27,000	3.4	16,800	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29A	A80UH1E045A12*	14.0	11.0	29,000	21,460	7.7	27,000	3.4	17,000	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29B	A80UH1E070B12*	14.0	11.0	29,000	21,460	7.7	26,800	3.4	16,800	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29B	A80UH1E090B16*	14.0	11.0	29,000	21,460	7.7	26,800	3.4	16,800	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29A	A80UH2V070A12*	13.5	11.0	29,000	21,460	7.7	27,000	3.4	17,000	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29B	A80UH2V090B12*	13.5	11.0	29,000	21,460	7.7	27,000	3.4	17,000	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29B	A80UH2V090B16*	13.5	11.0	29,000	21,460	7.7	27,000	3.4	17,000	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29B	A95DF1E045B12S	13.5	11.0	29,000	21,460	7.7	27,000	3.4	17,000	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29B	A95DF1E070B16S	14.0	11.0	29,000	21,460	7.7	27,000	3.4	17,000	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29B	A95DF2V045B12S	14.0	11.0	29,000	21,460	7.7	27,000	3.4	16,800	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29B	A95DF2V070B16S	13.5	11.0	29,000	21,460	7.7	27,000	3.4	17,000	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29B	A95UH1E045B12S	13.5	11.0	29,000	21,460	7.7	27,000	3.4	17,000	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29B	A95UH1E070B12S	13.5	11.0	29,000	21,460	7.7	27,000	3.4	17,000	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29B	A95UH2V045B12S	13.5	11.0	29,000	21,460	7.7	27,000	3.4	17,000	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29B	A95UH2V070B12S	14.0	11.0	29,000	21,460	7.7	27,000	3.4	16,800	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29B	A96DFMV070B12*	14.0	11.0	29,000	21,460	7.7	26,800	3.4	16,800	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29B	A96UHMV070B12*	14.0	11.0	29,000	21,460	7.7	27,000	3.4	16,800	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29C	LBR84-95V14	13.5	11.0	29,000	21,460	7.7	27,000	3.4	17,000	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29C	LHF84-95V12	13.5	11.0	29,000	21,460	7.7	27,000	3.4	1							

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Outdoor Model	Indoor Model Evap. Coil or Air Handler <sup>3</sup>	Furnace	Cooling				Heating				CFM	Refrig. Connection		Refrig Line Size <sup>4</sup>	Indoor Expansion Valve <sup>2</sup>		
			SEER	EER	AHRI Rated Cap. <sup>1</sup>	Sens. Cap.	HSPF	47°		17°		Out-door	In-door		Suct.	Piston	TXV
								Btuh	COP	Btuh				COP			
45HP13LE130P-5 (Continued)	E*1P29C	LUF57-72V12	13.5	11.0	29,000	21,460	7.7	27,000	3.4	17,000	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	E*1P29C	LUF84-95V14	13.5	11.0	29,000	21,460	7.7	27,000	3.4	17,000	2.20	1,000	3/4	3/4	3/4	.062	H4TXV01
	BCS2M36C00NA-1P		13.0	11.0	35,000	25,200	7.7	33,800	3.4	18,000	2.20	1,275	3/4	7/8	3/4	.071	H4TXV01
	BCS2M36V00NA1P		14.0	11.0	35,000	25,200	7.7	33,800	3.4	18,000	2.20	1,275	3/4	7/8	3/4	.071	H4TXV01
45HP13LE136P-5	BCS3M36C****P		13.0	11.0	35,000	25,200	7.7	33,800	3.4	18,000	2.20	1,275	3/4	7/8	3/4	.071	H4TXV01
	E*1P30A	A80DF1E045A12	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36A	A80DF1E045A12	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30B	A80DF1E070B12	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36B	A80DF1E070B12	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30B	A80DF1E090B16	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36B	A80DF1E090B16	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30C	A80DF1E110C20	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36C	A80DF1E110C20	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30B	A80DF2V090B16*	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36B	A80DF2V090B16*	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30C	A80DF2V110C20*	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36C	A80DF2V110C20*	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30B	A80UH1E070B12*	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36B	A80UH1E070B12*	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30B	A80UH1E090B16*	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36B	A80UH1E090B16*	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30C	A80UH1E090C20*	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36C	A80UH1E090C20*	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30C	A80UH1E110C20*	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36C	A80UH1E110C20*	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30B	A80UH2V090B12*	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36B	A80UH2V090B12*	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30B	A80UH2V090B16*	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36B	A80UH2V090B16*	13.5	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30C	A80UH2V090C20*	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36C	A80UH2V090C20*	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30C	A80UH2V110C20*	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36C	A80UH2V110C20*	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36B	A80UH2V110C20*	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30C	A95DF1E070B16S	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30C	A95DF1E090C16S	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36C	A95DF1E090C16S	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30C	A95DF1E110C20S	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36C	A95DF1E110C20S	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30B	A95DF2V045B12S	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36B	A95DF2V045B12S	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30B	A95DF2V070B16S	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36B	A95DF2V070B16S	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30C	A95DF2V090C20S	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36C	A95DF2V090C20S	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30C	A95DF2V110C20S	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36C	A95DF2V110C20S	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30C	A95UH1E090C16S	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P36C	A95UH1E090C16S	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
	E*1P30C	A95UH1E110C20S	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01
E*1P36C	A95UH1E110C20S	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
E*1P30B	A95UH2V045B12S	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
E*1P36B	A95UH2V045B12S	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
E*1P30B	A95UH2V070B12S	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
E*1P36B	A95UH2V070B12S	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
E*1P30C	A95UH2V090C12S	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
E*1P36C	A95UH2V090C12S	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
E*1P30C	A95UH2V090C16S	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
E*1P36C	A95UH2V090C16S	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
E*1P30C	A95UH2V090C20S	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
E*1P36C	A95UH2V090C20S	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
E*1P30C	A95UH2V110C16S	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
E*1P36C	A95UH2V110C16S	1															

Continued from the Previous Page

Outdoor Model	Indoor Model Evap. Coil or Air Handler <sup>3</sup>	Furnace	Cooling				Heating				CFM	Refrig. Connection			Refrig. Line Size <sup>4</sup>		Indoor Expansion Valve <sup>2</sup>	
			SEER	EER	AHRI Rated Cap. <sup>1</sup>	Sens. Cap.	HSPF	47°		17°		Out-door	In-door	Line Size	Piston			
								Btuh	COP	Btuh					COP	Suct.	TXV	
45HP13LE136P-5 (Continued)	E*1P36C	A96DFMV0110C20*	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E*1P30B	A96DFMV070B12*	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E*1P36B	A96DFMV070B12*	13.5	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E*1P30C	A96DFMV090C16*	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E*1P36C	A96DFMV090C16*	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E*1P30C	A96DFMV090C20*	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E*1P36C	A96DFMV090C20*	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E*1P30C	A96UHMV0110C20*	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E*1P36C	A96UHMV0110C20*	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E*1P30B	A96UHMV070B12*	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E*1P36B	A96UHMV070B12*	13.5	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E*1P30C	A96UHMV090C12*	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E*1P36C	A96UHMV090C12*	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E*1P30C	A96UHMV090C16*	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E*1P36C	A96UHMV090C16*	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E*1P30C	A96UHMV090C20*	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E*1P36C	A96UHMV090C20*	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E*1P30C	A96UHMV110C20*	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E*1P30C	LBR84-95V14	13.5	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E*1P36C	LBR84-95V14	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
E*1P30C	LHF84-95V12	13.5	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01		
E*1P36C	LHF84-95V12	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01		
E*1P30C	LUF112-125V20	13.5	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01		
E*1P36C	LUF112-125V20	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01		
E*1P36C	LUF57-72V12	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01		
E*1P30C	LUF84-95V14	13.5	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01		
E*1P36C	LUF84-95V14	13.5	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01		
45HP13LE142P-5	BCS2M42C00NA-1P		13.0	11.0	41,000	29,520	7.7	40,000	3.5	25,000	2.20	1,400	7/8	7/8	7/8	.076	H4TXV02	
	BCS2M42V00NA1P		13.0	11.0	41,000	29,520	7.7	40,000	3.5	25,000	2.20	1,400	7/8	7/8	7/8	.076	H4TXV02	
	BCS3M42C****P		13.0	11.0	41,000	29,520	7.7	40,000	3.5	25,000	2.20	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E*1P36C	A80DF1E110C20	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	3/4	7/8	.076	H4TXV02	
	E*1P36B	A80UH1E090B16*	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	3/4	7/8	.076	H4TXV02	
	E*1P43B	A80UH1E090B16*	13.5	11.0	41,000	29,520	7.7	39,500	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E*1P36C	A80UH1E090C20*	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	3/4	7/8	.076	H4TXV02	
	E*1P36C	A80UH1E110C20*	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	3/4	7/8	.076	H4TXV02	
	E*1P36C	A95DF1E110C20S	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	3/4	7/8	.076	H4TXV02	
	E*1P43C	A95DF1E110C20S	13.5	11.0	41,000	29,520	7.7	39,500	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E*1P36C	A95DF2V090C20S	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	3/4	7/8	.076	H4TXV02	
	E*1P36C	A95DF2V110C20S	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	3/4	7/8	.076	H4TXV02	
	E*1P43C	A95DF2V110C20S	13.5	11.0	41,000	29,520	7.7	39,500	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E*1P36C	A95UH1E110C20S	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	3/4	7/8	.076	H4TXV02	
	E*1P43C	A95UH1E110C20S	13.5	11.0	41,000	29,520	7.7	39,500	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E*1P36C	A95UH2V090C16S	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	3/4	7/8	.076	H4TXV02	
	E*1P43C	A95UH2V090C16S	13.5	11.0	41,000	29,520	7.7	39,500	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E*1P36C	A95UH2V090C20S	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	3/4	7/8	.076	H4TXV02	
	E*1P43C	A95UH2V090C20S	13.5	11.0	41,000	29,520	7.7	39,500	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E*1P36C	A95UH2V110C16S	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	3/4	7/8	.076	H4TXV02	
	E*1P43C	A95UH2V110C16S	13.5	11.0	41,000	29,520	7.7	39,500	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E*1P36C	A95UH2V110C20S	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	3/4	7/8	.076	H4TXV02	
	E*1P43C	A95UH2V110C20S	13.5	11.0	41,000	29,520	7.7	39,500	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
45HP13LE148P-5	BCS2M48C00NA-1P		13.0	11.0	48,000	34,560	7.7	45,000	3.2	28,000	2.40	1,600	7/8	7/8	7/8	.080	H4TXV02	
	BCS2M48V00NA1P		14.0	11.0	48,000	34,560	7.7	45,000	3.2	28,000	2.40	1,600	7/8	7/8	7/8	.080	H4TXV02	
	BCS3M48C****P		13.0	11.0	48,000	34,560	7.7	45,000	3.2	28,000	2.40	1,600	7/8	7/8	7/8	.080	H4TXV02	
45HP13LE160P-5	BCS2M60C00NA-1P		13.0	11.0	58,000	41,180	7.7	54,000	3.3	34,000	2.30	1,850	7/8	7/8	1 1/8	NA	H4TXV02	
	BCS2M60V00NA1P		13.0	11.0	58,000	41,180	7.7	54,000	3.3	34,000	2.30	1,850	7/8	7/8	1 1/8	NA	H4TXV02	
	BCS3M60C****P		13.0	11.0	58,000	41,180	7.7	54,000	3.3	34,000	2.30	1,850	7/8	7/8	1 1/8	NA	H4TXV02	

NOTE:

<sup>1</sup> Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240

<sup>2</sup> Required to achieve AHRI rating. If NA (Not Applicable) is in the piston column, then TXV is required.

<sup>3</sup> A blower time delay relay is required to achieve AHRI rating. This feature is standard on all Allied Air Enterprises furnace and AH products.

<sup>4</sup> All liquid lines are 3/8".



## 4HP13 Split System Heat Pump

13 SEER, R-410A

### Features

- High-quality condenser coil with copper tubing and enhanced louvered fin for maximum heat transfer capacity
- Top discharge directs hot air and sound away from living area and shrubbery
- All units run tested
- Available with louvered panel coil protection
- Easy access to electrical panels, pre-wired for easy hook-up
- Bi-directional liquid line filter drier factory installed
- Discharge muffler for quiet operation
- Reliable, solid state time/temperature defrost control, with field selectable 30/60/90 minute intervals
- Defrost control is Quiet Shift™ capable

- Low pressure switch factory installed for loss of charge protection
- Integrated control with LED diagnostics
- Short cycle protection factory installed
- All units UL and ULC approved for AHRI listed
- Charged for 15 feet of interconnecting tubing

### Warranties\*

- 10 year limited warranty on compressor
  - 10 year limited warranty on all parts
- \*On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

### Heat Pumps

Prices Available on Request

Cabinet Dimensions W x D x H	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
24-1/4 x 24-1/4 x 32-1/2	1	EA	84267	4HP13L18P 1.5 TON 208/230/1 R410 HEAT PUMP 80W13
24-1/4 x 24-1/4 x 32-1/2	1	EA	84268	4HP13L24P 2 TON 208/230/1 R410 HEAT PUMP 80W14
24-1/4 x 24-1/4 x 28-1/2	1	EA	84269	4HP13L30P 2.5 TON 208/230/1 R410 HEAT PUMP 80W15
24-1/4 x 24-1/4 x 32-1/2	1	EA	84270	4HP13L36P 3 TON 208/230/1 R410 HEAT PUMP 80W16
28-1/4 x 28-1/4 x 32-1/2	1	EA	84271	4HP13L42P 3.5 TON 208/230/1 R410 HEAT PUMP 80W17
28-1/4 x 28-1/4 x 36-1/2	1	EA	84272	4HP13L48P 4 TON 208/230/1 R410 HEAT PUMP 80W18
28-1/4 x 28-1/4 x 42-1/2	1	EA	84273	4HP13L60P 5 TON 208/230/1 R410 HEAT PUMP 80W19

### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	61702	45F08 T6-1469 COMPRESSOR LOW AMBIENT CUT-OFF
1	EA	67837	H4TXV01-1 R-410A EXPANSION VALVE
1	EA	67838	H4TXV02-1 R-410A EXPANSION VALVE



## 4HP13 Heat Pump Performance Ratings



Outdoor Model	Indoor Model Evap. Coil or Air Handler <sup>3</sup>	Furnace	Cooling				Heating				CFM	Refrig. Connection		Refrig Line Size <sup>4</sup>	Indoor Expansion Valve <sup>2</sup>			
			SEER	EER	AHR1 Rated Cap. <sup>1</sup>	Sens. Cap.	HSPF	47°		17°		Out-door Suct.	In-door Suct.		Suct.	Piston	TKV	
								Btuh	COP	Btuh								COP
4HP13*18P-7	BCS2M18C****P		13.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01	
	BCS2M24V****P		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01	
	BCS3M18C****P		13.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01	
	E(C,H,M,U)1P18A	A80DF1E045A12		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P24A	A80DF1E045A12		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P18B	A80DF1E070B12		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P24B	A80DF1E070B12		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P18A	A80UH1E045A12*		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P24A	A80UH1E045A12*		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P18B	A80UH1E070B12*		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P24B	A80UH1E070B12*		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P18A	A80UH2V070A12*		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P24A	A80UH2V070A12*		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P18B	A80UH2V090B16*		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P24B	A80UH2V090B16*		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P18B	A95DF1E045B12S		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P24B	A95DF1E045B12S		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P18B	A95DF2V045B12S		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P24B	A95DF2V045B12S		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P18B	A95DF2V070B16S		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P24B	A95DF2V070B16S		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P18B	A95UH1E045B12S		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P24B	A95UH1E045B12S		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P18B	A95UH1E070B12S		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P24B	A95UH1E070B12S		13.5	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P18B	A95UH2V045B12S		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P24B	A95UH2V045B12S		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P18B	A95UH2V070B12S		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	E(C,H,M,U)1P24B	A95UH2V070B12S		14.0	11.0	18,000	12,780	7.7	17,000	3.2	10,000	2.00	650	3/4	3/4	3/4	NA	H4TXV01
	4HP13*24P-7	BCS2M24C****P		13.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
		BCS2M24V****P		13.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
		BCS3M24C****P		13.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
		E(C,H,M,U)1P23A	A80DF1E045A12		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057
E(C,H,M,U)1P24A		A80DF1E045A12		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P23B		A80DF1E070B12		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P24B		A80DF1E070B12		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P23A		A80UH1E045A12*		13.5	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P24A		A80UH1E045A12*		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P23B		A80UH1E070B12*		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P24B		A80UH1E070B12*		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P23A		A80UH2V070A12*		14.0	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P24A		A80UH2V070A12*		14.0	11.0	23,000	16,790	7.7	21,200	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P23B		A80UH2V090B16*		13.5	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P24B		A80UH2V090B16*		13.5	11.0	23,000	16,790	7.7	21,400	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P23B		A95DF1E045B12S		13.5	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P24B		A95DF1E045B12S		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P23B		A95DF2V045B12S		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P24B		A95DF2V045B12S		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P23B		A95DF2V070B16S		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P24B		A95DF2V070B16S		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P23B		A95UH1E045B12S		13.5	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P24B		A95UH1E045B12S		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P23B		A95UH1E070B12S		13.5	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P24B		A95UH1E070B12S		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P23B		A95UH2V045B12S		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P24B		A95UH2V045B12S		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P23B		A95UH2V070B12S		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
E(C,H,M,U)1P24B		A95UH2V070B12S		14.0	11.0	23,000	16,790	7.7	21,600	3.3	13,000	2.20	850	3/4	3/4	3/4	.057	H4TXV01
4HP13*30P-7		BCS2M30C****P		13.0	11.0	29,000	21,460	7.7	27,000	3.4	17,000	2.20	1,000	3/4	7/8	3/4	.062	H4TXV01
		BCS2M36V****P		14.0	11.0	29,000	21,460	7.7	27,000	3.4	17,000	2.20	1,000	3/4	7/8	3/4	.062	H4TXV01
		BCS3M30C****P		13.0	11.													



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Outdoor Model	Indoor Model Evap. Coil or Air Handler <sup>3</sup>	Furnace	Cooling				Heating				CFM	Refrig. Connection		Refrig. Line Size <sup>4</sup>	Indoor Expansion Valve <sup>2</sup>			
			SEER	EER	AHRI Rated Cap. <sup>1</sup>	Sens. Cap.	HSPF	47°		17°		Out-door	In-door		Suct.	Piston	TXV	
								Btuh	COP	Btuh								COP
	E(C,H,M,U)1P30C	A95UH2V110C20S	14.0	11.0	35,000	25,200	7.7	32,800	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
	E(C,H,M,U)1P36C	A95UH2V110C20S	14.0	11.0	35,000	25,200	7.7	33,000	3.4	18,000	2.20	1,275	3/4	3/4	3/4	.071	H4TXV01	
4HP13*42P-7	BCS2M42C****P		13.0	11.0	41,000	29,520	7.7	40,000	3.5	25,000	2.20	1,400	7/8	7/8	7/8	.076	H4TXV02	
	BCS2M42V****P		13.0	11.0	41,000	29,520	7.7	40,000	3.5	25,000	2.20	1,400	7/8	7/8	7/8	.076	H4TXV02	
	BCS3M42C****P		13.0	11.0	41,000	29,520	7.7	40,000	3.5	25,000	2.20	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E(C,H,M,U)1P36C	A80DF1E110C20	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E(C,H,M,U)1P36B	A80UH1E090B16*	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E(C,H,M,U)1P43B	A80UH1E090B16*	13.5	11.0	41,000	29,520	7.7	39,500	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E(C,H,M,U)1P36C	A80UH1E090C20*	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E(C,H,M,U)1P36C	A80UH1E110C20*	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E(C,H,M,U)1P36C	A95DF1E110C20S	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E(C,H,M,U)1P43C	A95DF1E110C20S	13.5	11.0	41,000	29,520	7.7	39,500	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E(C,H,M,U)1P36C	A95DF2V090C20S	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E(C,H,M,U)1P36C	A95DF2V110C20S	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E(C,H,M,U)1P43C	A95DF2V110C20S	13.5	11.0	41,000	29,520	7.7	39,500	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E(C,H,M,U)1P36C	A95UH1E110C20S	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E(C,H,M,U)1P43C	A95UH1E110C20S	13.5	11.0	41,000	29,520	7.7	39,500	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E(C,H,M,U)1P36C	A95UH2V090C20S	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E(C,H,M,U)1P43C	A95UH2V090C20S	13.5	11.0	41,000	29,520	7.7	39,500	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E(C,H,M,U)1P36C	A95UH2V110C20S	13.5	11.0	41,000	29,520	7.7	40,000	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	E(C,H,M,U)1P43C	A95UH2V110C20S	13.5	11.0	41,000	29,520	7.7	39,500	3.4	25,000	2.30	1,400	7/8	7/8	7/8	.076	H4TXV02	
	4HP13*48P-7	BCS2M48C****P		13.0	11.0	48,000	34,560	7.7	45,000	3.2	28,000	2.40	1,600	7/8	7/8	7/8	.080	H4TXV02
BCS2M48V****P			14.0	11.0	48,000	34,560	7.7	45,000	3.2	28,000	2.40	1,600	7/8	7/8	7/8	.080	H4TXV02	
BCS3M48C****P			13.0	11.0	48,000	34,560	7.7	45,000	3.2	28,000	2.40	1,600	7/8	7/8	7/8	.080	H4TXV02	
4HP13*60P-7	BCS2M60C****P		13.0	11.0	58,000	41,180	7.7	54,000	3.3	34,000	2.30	1,850	7/8	7/8	1 1/8	NA	H4TXV02	
	BCS2M60V****P		13.0	11.0	58,000	41,180	7.7	54,000	3.3	34,000	2.30	1,850	7/8	7/8	1 1/8	NA	H4TXV02	
	BCS3M60C****P		13.0	11.0	58,000	41,180	7.7	54,000	3.3	34,000	2.30	1,850	7/8	7/8	1 1/8	NA	H4TXV02	

**NOTE:**

<sup>1</sup> Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240

<sup>2</sup> Required to achieve AHRI rating. If NA (Not Applicable) is in the piston column, then TXV is required.

<sup>3</sup> A blower time delay relay is required to achieve AHRI rating. This feature is standard on all Allied Air Enterprises furnace and AH products.

<sup>4</sup> All liquid lines are 3/8".





# Nitrogen Charged Split System Heat Pumps



## 13 SEER, 1 & 3 Phase



- Nitrogen charged for replacement of R-22 components only
- High-quality condenser coil with copper tubing and enhanced louvered fin for maximum heat transfer capacity
- Top discharge directs hot air and sound away from living area and shrubbery
- All units run tested
- Available with wire panel coil protection
- Easy access to electrical panels, pre-wired for easy hook-up
- Bi-directional liquid line filter drier factory installed
- Discharge muffler for quiet operation
- Reliable, solid state time/temperature defrost control, with field selectable 30/60/90 minute intervals
- Defrost control is QuietShift™ capable
- Integrated control with LED diagnostics
- Shorty cycle protection factory installed
- All units UL and ULC approved
- 5 year limited warranty on compressor
- 5 year limited warranty on all parts

Outdoor Model	Indoor Model Evap. Coil or Air Handler 3	Cooling					Heating				CFM	Refrig. Connection		Refrig. Line Size*	Indoor Expansion Valve
		SEER	EER	AHRI Rated Cap.	Sens. Cap.	HSPF	47°		17°			Outdoor	Indoor		
							Btuh	COP	Btuh	COP					
13HPDL-018	BCS2M18C****P+TXV	13.0	11.5	18,600	14,100	7.7	16,700	3.4	10,500	2.3	600	3/4	3/4	3/4	H2TXV01
13HPDL-024	BCS2M24C****P+TXV	13.0	11.5	24,600	18,700	7.7	22,000	3.4	13,800	2.3	800	3/4	3/4	3/4	H2TXV01
13HPDL-030	BCS2M30C****P+TXV	13.0	11.0	31,000	23,500	7.7	28,600	3.5	17,900	2.4	1000	3/4	3/4	3/4	H2TXV01
13HPDL-036	BCS2M36C****P+TXV	13.0	11.0	35,200	27,100	7.7	33,800	3.5	21,000	2.4	1200	7/8	3/4	7/8	H2TXV01
13HPDL-042	BCS2M42C****P+TXV	13.0	11.0	41,500	32,300	7.7	41,000	3.3	23,500	2.3	1400	7/8	7/8	7/8	H2TXV02
13HPDL-048	BCS2M48C****P+TXV	13.0	11.0	50,500	38,400	7.7	47,500	3.3	30,100	2.4	1600	7/8	7/8	7/8	H2TXV02
13HPDL-060	BCS2M60C****P+TXV	13.0	11.0	57,000	42,800	7.7	55,500	3.3	35,700	2.4	1800	1-1/8	7/8	1-1/8	H2TXV03
2SHP13LC136T	BCS2M36C00NA-1P	13.0	11.0	35,200	26,400	7.7	33,800	3.5	21,000	2.4	1200	7/8	7/8	7/8	H2TXV02
2SHP13LC148T	BCS2M48C00NA-1P	13.0	11.0	48,000	35,500	7.7	47,500	3.4	30,600	2.4	1600	7/8	7/8	7/8	H2TXV02
2SHP13LC160T	BCS2M60C00NA-1P	13.0	11.0	55,000	41,300	7.7	55,000	3.6	35,000	2.5	1800	7/8	7/8	1-1/8	H2TXV03

\*All liquid lines are 3/8"

### 1 Phase Heat Pumps

Prices Available on Request

Dimensions H x W x D (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
33 x 24-1/4 x 24-1/4	1	EA	84057	13HPDL018 1.5 TON NITROGEN CHARGED R22 HEAT PUMP 90W95
33 x 24-1/4 x 24-1/4	1	EA	84058	13HPDL024 2 TON NITROGEN CHARGED R22 HEAT PUMP 90W96
29 x 24-1/4 x 24-1/4	1	EA	84059	13HPDL030 2.5 TON NITROGEN CHARGED R22 HEAT PUMP 90W97
33 x 24-1/4 x 24-1/4	1	EA	84060	13HPDL036 3 TON NITROGEN CHARGED R22 HEAT PUMP 90W98
33 x 28-1/4 x 28-1/4	1	EA	84061	13HPDL042 3.5 TON NITROGEN CHARGED R22 HEAT PUMP 90W99
37 x 28-1/4 x 28-1/4	1	EA	84062	13HPDL048 4 TON NITROGEN CHARGED R22 HEAT PUMP 91W00
37 x 32-1/4 x 32-1/4	1	EA	84063	13HPDL060 5 TON NITROGEN CHARGED R22 HEAT PUMP 91W01

### 3 Phase Heat Pumps

33-3/4 x 24-3/4 x 26-3/4	1	EA	84067	2SHP13LC136T 3T 208/230V 3PH NITROGEN R22 HEAT PUMP 1.432028
37-3/4 x 29-3/8 x 31-1/4	1	EA	84068	2SHP13LC148T 4T 208/230V 3PH NITROGEN R22 HEAT PUMP 1.432029
43-3/4 x 29-3/8 x 31-1/4	1	EA	84069	2SHP13LC160T 5T 208/230V 3PH NITROGEN R22 HEAT PUMP 1.432030

### Accessories

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
13HPDL18, 24, 30	1	EA	61155	H2TXV01 R22 EXPANSION VALVE
13HPDL36, 42, 48	1	EA	61156	H2TXV02 R22 EXPANSION VALVE
13HPDL60	1	EA	61157	H2TXV03 R22 EXPANSION VALVE
All 13HPDL Models	1	EA	61702	45F08 T6-1469 LOW AMBIENT KIT
ALL 2SHP Models	1	EA	86920	93G35 FREEZE THERMOSTAT



## Accessories for Heat Pumps



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	63514	R40787-001 ASTAT444 OUTDOOR STAT KIT	—



## Orifices for Heat Pumps

For SHP10A/B and SHP12A/B



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	61095	10W95 R39332B055 .055 ORIFICE R39332B055	—
1	EA	61097	98M13 R39332B070 .070 100484-19 ORIFICE R39332B070	—
1	EA	61098	10W83 100484-17 .068 100484-17 KIT ORIFICE	—
1	EA	61099	10W82 100484-11 .061 ORIFICE	—
1	EA	61101	11W04 100484-26 .078 ORIFICE R39332B078	—
1	EA	61102	11W01 100484-20 .071 ORIFICE	—
1	EA	61103	97M77 100484-23 .074 ORIFICE	—
1	EA	61104	11W11 100484-40 .093 ORIFICE R39332B093	—
1	EA	61106	97M74 100484-06 .053 ORIFICE R39332B053	—
1	EA	61107	10W99 100484-15 .065 ORIFICE R39332B065	—
1	EA	61108	11W02 100484-22 .073 ORIFICE R39332B073	—
1	EA	61109	97M78 100484-24 .076 ORIFICE R39332B076	—
1	EA	61110	10W86 100484-28 .080 ORIFICE R39332B080	—
1	EA	61111	10W87 100484-32 .084 ORIFICE R39332B084	—



# BCS2 Multiposition Air Handlers



### Application

- 1-1/2 to 5 ton sizes
- Upflow and horizontal
- Sequenced for demand management
- External access to heater circuit breakers

### Installation

- 1 piece design for easier installation
- Multiposition: upflow, horizontal left, and horizontal right

### Cabinet

- Foil faced insulation
- Painted heavy gauge galvanized cabinet
- Filter rack built into every air handler
- High strength, UV and heat-resistant plastic drain pan for corrosion resistance
- Microban® anti-microbial built into drain pan to resist mold and mildew growth and fouling of the drain
- 2% or less air leakage

### Components

- BCS2M\*\*C: PSC blower motor
- BCS2M\*\*V: ECM variable speed blower motor
- Standard transformer and blower relay
- Field installed 5 to 20 kW electric heat kits with easy plug connections
- Built-in indoor time delay for increased efficiency
- Sleeves on distributor tubing to protect tubing

### Accessories

- Counterflow kit
- Single point power kit

### Warranties

- 10 year limited warranty on parts\*
- Extended warranty available
- ETL certified
- UL listed

\*On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Voltage/Hz/Phase	Motor Size (hp)	Max. Elec. Heat Available (kW)	Transformer Size and Type	Filter Size (In.)	Refrigerant Connections (IDS)		Flowrator Piston Size	Weight (Lbs.)
						Suction (In.)	Liquid (In.)		
BCS2M18	208-230/60/1	1/4	10	40 VA, Class 2	16 x 20	3/4	3/8	53	129
BCS2M24	208-230/60/1	1/4	10	40 VA, Class 2	16 x 20	3/4	3/8	59	131
BCS2M30	208-230/60/1	1/4	15	40 VA, Class 2	18 x 20	7/8	3/8	67	148
BCS2M36	208-230/60/1	1/3	15	40 VA, Class 2	18 x 20	7/8	3/8	73	148
BCS2M42	208-230/60/1	1/3	15	40 VA, Class 2	18 x 25	7/8	3/8	80	172
BCS2M48	208-230/60/1	1/2	20	40 VA, Class 2	18 x 25	7/8	3/8	84	177
BCS2M60	208-230/60/1	1/2	20	40 VA, Class 2	18 x 25	7/8	3/8	93	190

### Dimensions (In.)

Air Handler	Height (In.)	Depth (In.)	Width (In.)	Supply Duct Opening (In.)		Return Duct Opening (In.)	
				Depth	Width	Depth	Width
BCS2M18-24	46-3/4	22	18-1/2	17	16-1/2	20-1/4	16
BCS2M30-36	51	22	21-1/4	17	19-1/4	20-1/4	18-3/4
BCS2M42-48	54	26	21-1/4	21	19-1/4	20-1/4	18-3/4
BCS2M60	60	26	21-1/4	21	19-1/4	20-1/4	18-3/4

### Air Handler with Piston Orifice

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	61508	BCS2M18C00NA1P 1.5T MULTI-POSITION AIR HANDLER
1	EA	61509	BCS2M24C00NA1P 2T MULTI-POSITION AIR HANDLER
1	EA	61510	BCS2M30C00NA1P 2.5T MULTI-POSITION AIR HANDLER
1	EA	61511	BCS2M36C00NA1P 3T MULTI-POSITION AIR HANDLER
1	EA	61513	BCS2M42C00NA1P 3.5T MULTI-POSITION AIR HANDLER
1	EA	61516	BCS2M48C00NA1P 4T MULTI-POSITION AIR HANDLER

### Air Handler with Variable Speed

1	EA	62825	BCS2M24V00NA1P 2T MULTI-POSITION AIR HANDLER
1	EA	62826	BCS2M36V00NA1P 3T MULTI-POSITION AIR HANDLER
1	EA	62827	BCS2M42V00NA1P 3-1/2T MULTI-POSITION AIR HANDLER
1	EA	62828	BCS2M48V00NA1P 4T MULTI-POSITION AIR HANDLER
1	EA	62830	BCS2M60V00NA1P 5T MULTI-POSITION AIR HANDLER

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**Modular Air Handlers**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	65524	EFC08BCP-1A 208/230 1PH CONSTANT SPD MODULAR AIR HANDLER
1	EA	65525	EFC12BCP-1A 208/230 1PH CONSTANT SPD MODULAR AIR HANDLER
1	EA	65526	EFC16CCP-1A 208/230 1PH CONSTANT SPD MODULAR AIR HANDLER
1	EA	65529	EFC20DCP-1A 208/230 1PH CONSTANT SPD MODULAR AIR HANDLER
1	EA	65530	EFV12BCP-1A 208/230 1PH VARIABLE SPD MODULAR AIR HANDLER
1	EA	65531	EFV16CCP-1A 208/230 1PH VARIABLE SPD MODULAR AIR HANDLER
1	EA	65532	EFV20DCP-1A 208/230 1PH VARIABLE SPD MODULAR AIR HANDLER

**Accessories**

Used On	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
All BCS2 Models	1	EA	61199	12W61 CB26 DOWNFLOW CONVERSION KIT	—
All BCS2, EFC and EFV Models	1	EA	69166	AEHBCC05CSA 5KW HEAT STRIP W/CIRCUIT BREAKER	—
All BCS2, EFC and EFV Models	1	EA	69178	AEHBCC07CSA 7.5KW HEAT STRIP W/CIRCUIT BREAKER	—
All BCS2, EFC and EFV Models	1	EA	69105	AEHBCC07NSA-1 7.5KW HEAT STRIP W/TERMINAL BLOCK	—
All BCS2, EFC and EFV Models	1	EA	66907	AEHBCC10CSA-1 10KW HEAT STRIP W/CIRCUIT BREAKER	—
All BCS2, EFC and EFV Models	1	EA	69106	AEHBCC10NSA-1 10KW HEAT STRIP W/TERMINAL BLOCK	—
BCS2* 30, 36, 42, 48, 60 - EFC 12, 16, 20 - EFV 12, 16, 20	1	EA	69107	AEHBCC15CSA-1 15KW HEAT STRIP W/CIRCUIT BREAKER	—
BCS2* 48, 60 - EFC 16, 20 - EFV 16, 20	1	EA	69108	AEHBCC20CSA-1 20KW HEAT STRIP W/CIRCUIT BREAKER	—



# BCE3 Multiposition Air Handlers

**AIREASE**



### Application

- 1-1/2 to 5 ton sizes
- Upflow and horizontal
- Sequenced for demand management
- External access to heater circuit breakers

### Installation

- 1 piece design for easier installation
- Multiposition: upflow/horizontal left/right
- Slide-out blower assembly

### Cabinet

- Foil faced insulation
- Painted, heavy-gauge galvanized cabinet
- Thumb screws for easy access to the filter and filter rack built into every air handler
- High-strength, UV- and heat-resistant plastic drain pan for corrosion resistance
- Microban® antimicrobial built in to drain pan to resist mold and mildew growth and fouling of the drain
- 2% or less air leakage
- Internal cabinet brace
- Pre-bent duct flanges

### Components

- Efficient PSC blower motors
- Standard transformer and blower relay
- Field-installed 2.5-20 kW electric heat kits with easy plug connections
- Built-in indoor time delay for increased efficiency
- Sleeves on distributor tubing to protect tubing

### Accessories

- Counterflow kit
- Single point power kit

### Warranties

- 10-year limited parts warranty\*
- ETL certified
- AHRI certified

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Volts/Hz/Phase	Max. Elec. Heat Available (kW)	Transformer Size & Type	Filter Size (In.)	Refrigerant Connection (IDS)		Florator Piston Size	Weight (Lbs.)
					Suction (In.)	Liquid (In.)		
BCE3M18	208-230/60/1	10	40 VA, Class 2	12 X 20	3/4	3/8	.053	104
BCE3M24	208-230/60/1	10	40 VA, Class 2	15 X 20	7/8	3/8	.057	122
BCE3M30	208-230/60/1	12.5	40 VA, Class 2	15 X 20	7/8	3/8	.062	125
BCE3M36	208-230/60/1	15	40 VA, Class 2	18 X 20	7/8	3/8	.071	160
BCE3M42	208-230/60/1	15	40 VA, Class 2	18 X 24	7/8	3/8	.076	162
BCE3M48	208-230/60/1	20	40 VA, Class 2	18 X 24	7/8	3/8	.080	185
BCE3M60	208-230/60/1	20	40 VA, Class 2	18 X 24	7/8	3/8	.093	185

### Dimensions (In.)

Air Handler	Height (In.)	Depth (In.)	Width (In.)	Supply Duct Opening (In.)		Return Duct Opening (In.)	
				Depth	Width	Depth	Width
BCE3M18	38	22	15	17	13	20-3/4	12-1/2
BCE3M24	40-1/2	22	18-1/2	17	16-1/2	20-3/4	16
BCE3M30	43	22	18-1/2	17	16-1/2	20-3/4	16
BCE3M36	48	22	21-7/8	17	19-7/8	20-3/4	19-3/8
BCE3M42	48	26	21-7/8	21	19-7/8	24-3/4	19-3/8
BCE3M48	52-1/2	26	21-7/8	21	19-7/8	24-3/4	19-3/8
BCE3M60	52-1/2	26	21-7/8	21	19-7/8	24-3/4	19-3/8

### Air Handlers

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84352	BCE3M18C00NA1P 1.5T MULTI-POSITION AIR HANDLER
1	EA	84353	BCE3M24C00NA1P 2T MULTI-POSITION AIR HANDLER
1	EA	84354	BCE3M30C00NA1P 2.5T MULTI-POSITION AIR HANDLER
1	EA	84355	BCE3M36C00NA1P 3T MULTI-POSITION AIR HANDLER
1	EA	84356	BCE3M42C00NA1P 3.5T MULTI-POSITION AIR HANDLER
1	EA	84357	BCE3M48C00NA1P 4T MULTI-POSITION AIR HANDLER
1	EA	84358	BCE3M60C00NA1P 5T MULTI-POSITION AIR HANDLER

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**Electric Heat Kits**

Used On	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
All BCE3 Models	1	EA	84033	ECB25-5CB-P 5KW HEAT STRIP W/CIRCUIT BREAKER
All BCE3 Models	1	EA	84034	ECB25-7CB-P 7.5KW HEAT STRIP W/CIRCUIT BREAKER
All BCE3 Models	1	EA	84035	ECB25-10CB-P 10KW HEAT STRIP W/CIRCUIT BREAKER
BCE3 30, 36, 42, 48, 60	1	EA	84024	ECB25-12.5CB-P 12.5KW HEAT STRIP W/CIRCUIT BREAKER
BCE3 36, 42, 48, 60	1	EA	84036	ECB25-15CB-P 15KW HEAT STRIP W/CIRCUIT BREAKER
BCE 3 48, 60	1	EA	84037	ECB25-20CB-P 20KW HEAT STRIP W/CIRCUIT BREAKER

**Accessories**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84038	96W37 BCS3M18 DOWNFLOW CONVERSION KIT
1	EA	84039	96W38 BCS3M24-30 DOWNFLOW CONVERSION KIT
1	EA	84022	97W95 BCS3M36 DOWNFLOW CONVERSION KIT
1	EA	84023	97W96 BCS3M42-60 DOWNFLOW CONVERSION KIT



# RBCS2 Multiposition Air Handlers



### Application

- 1-1/2 to 5 ton sizes
- Upflow and horizontal
- Sequenced for demand management
- External access to heater circuit breakers

### Installation

- 1 piece design for easier installation
- Multiposition: upflow, horizontal left, and horizontal right

### Cabinet

- Foil faced insulation
- Painted heavy gauge galvanized cabinet
- Filter rack built into every air handler
- High strength, UV and heat-resistant plastic drain pan for corrosion resistance
- Microban® anti-microbial built into drain pan to resist mold and mildew growth and fouling of the drain
- 2% or less air leakage

### Components

- Efficient PSC blower motors
- Standard transformer and blower relay
- Field installed 5 to 20 kW electric heat kits with easy plug connections
- Built-in indoor time delay for increased efficiency
- Sleeves on distributor tubing to protect tubing

### Accessories

- Counterflow kit
- Single point power kit

### Warranties

- 10 year limited warranty on parts\*
- Extended warranty available
- ETL certified
- UL listed

\*On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

### Specifications

Model No.	Voltage/ Hz/ Phase	Motor Size (HP)	Max. Elec. Heat Available (kW)	Transformer Size and Type	Filter Size (In.)	Refrigerant Connection (IDS)		Flowrator Piston Size	Weight (Lbs.)
						Suction (In.)	Liquid (In.)		
RBCS2M18	208-230/60/1	1/4	10	40 VA, Class 2	16 x 20	3/4	3/8	53	129
RBCS2M42	208-230/60/1	1/2	15	40 VA, Class 2	18 x 25	7/8	3/8	80	172

### Dimensions

Model No.	Height (In.)	Depth (In.)	Width (In.)	Supply Duct Opening		Return Duct Opening	
				Depth (In.)	Width (In.)	Depth (In.)	Width (In.)
RBCS2M18	46-3/4	22	18-1/2	17	16-1/2	20-1/4	16
RBCS2M42	54	26	21-1/4	21	19-1/4	24-1/4	18-3/4

### Air Handlers

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84187	RBCS2M18C00NA1P 1.5 TON AIR HANDLER
1	EA	84191	RBCS2M42C00NA1P 3.5 TON AIR HANDLER

### Accessories

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
All RBCS2 Models	1	EA	61199	12W61 CB26 DOWNFLOW CONVERSION KIT
All RBCS2 Models	1	EA	69166	AEHBCC05CSA 5KW HEAT STRIP W/CIRCUIT BREAKER
All RBCS2 Models	1	EA	69178	AEHBCC07CSA 7.5KW HEAT STRIP W/CIRCUIT BREAKER
All RBCS2 Models	1	EA	69105	AEHBCC07NSA-1 7.5KW HEAT STRIP W/TERMINAL BLOCK
All RBCS2 Models	1	EA	66907	AEHBCC10CSA-1 10KW HEAT STRIP W/CIRCUIT BREAKER
All RBCS2 Models	1	EA	69106	AEHBCC10NSA-1 10KW HEAT STRIP W/TERMINAL BLOCK
RBCS230, 36, 42, 48, 60	1	EA	69107	AEHBCC15CSA-1 15KW HEAT STRIP W/CIRCUIT BREAKER
RBCS248, 60	1	EA	69108	AEHBCC20CSA-1 20KW HEAT STRIP W/CIRCUIT BREAKER



## Heat Strips for D Series Air Handlers



Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	69109	AEHBCC10NLA-1 HEAT STRIP
1	EA	69110	AEHBCC15CLA-1 HEAT STRIP



## Modular Multi-Position Cased Coils



Cased, multi-position coil, upflow, downflow, horizontal left to right, and horizontal right to left airflow configurations.

10 year limited parts warranty.\*

\*On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	68823	CAM61A-B MODULAR COIL
1	EA	68839	CAM60NB MODULAR COIL
1	EA	68840	CAM60A MODULAR COIL





## HWC4 Model Vintage™ Packaged Units

### Gas Heating and Electric Cooling, Thru-the-Wall, R-410A



- Self-contained heating and cooling package
- No outside condensing unit
- No external refrigerant lines
- No separate cooling coil
- Pre-wired and pre-charged
- Individually metered and controlled
- Slide-out cooling chassis
- Internal vent system (direct vent)
- High efficiency compressor
- Copper tubing with enhanced fin coils
- Standard aluminized steel tubular heat exchanger
- Multispeed motor for wide airflow range PSC permanently lubricated motor for low maintenance and maximum efficiency
- Dynamically balanced blower with resilient motor mounts for smooth and quiet operation
- Internal washable filter
- 5 year limited warranty on all parts
- 20 year warranty on stainless steel heat exchanger
- 10 year warranty on aluminized heat exchanger
- ETL certified
- ARI listed

#### Ratings and Specifications

Model No.	Cooling				Heating				Refrig. Charge (Oz.)	Weight (lbs.)
	BTUH	EER	S/T	CFM	Input BTUH	Output BTUH	AFUE %	Temp.		
26HWC4-09-121	11,400	9.0	.72	400	26,000	20,000	80	40-70	39	325
38HWC4-09-181	17,000	9.0	.74	650	38,000	30,000	80	40-70	43	350
38HWC4-09-241	22,400	9.0	.74	800	38,000	30,000	80	40-70	52	360
51HWC4-09-181	17,000	9.0	.74	650	51,000	40,000	80	40-70	43	350
51HWC4-09-241	22,400	9.0	.74	800	51,000	40,000	80	40-70	52	360
51HWC4-09-301	28,000	9.0	.70	825	51,000	40,000	80	40-70	80	380
64HWC4-09-181	17,000	9.0	.74	650	64,000	50,000	80	50-80	43	350
64HWC4-09-241	22,400	9.0	.74	800	64,000	50,000	80	50-80	52	360
64HWC4-09-301	28,000	9.0	.70	825	64,000	50,000	80	50-80	80	380

Model	Voltage/Hz/Phase	Nominal Voltage Range	Min. Circuit (amps)	Max. Fuse/HACR Brkr (amps)	Compressor		Outside Fan				Indoor Blower		
					Rated Load (amps)	Locked Rotor (amps)	Dia. (In.)	Nom. RPM	Rated Load (amps)	Rated HP	Wheel Dia. x Width (In.)	Rated Load Amps	Rated HP
26HWC4-09-121	208-230/60/1	197-253	11.6	15	6.8	45.0	18	1075	0.9	1/8	10 x 4	2.2	1/3
38HWC4-09-181	208-230/60/1	197-253	14.3	20	9.0	48.0	18	1075	0.9	1/8	10 x 4	2.2	1/3
38HWC4-09-241	208-230/60/1	197-253	20.6	30	13.5	58.3	18	1075	1.6	1/4	10 x 4	2.2	1/3
51HWC4-09-181	208-230/60/1	197-253	14.3	20	9.0	48.0	18	1075	0.9	1/8	10 x 4	2.2	1/3
51HWC4-09-241	208-230/60/1	197-253	20.6	30	13.5	58.3	18	1075	1.6	1/4	10 x 4	2.2	1/3
51HWC4-09-301	208-230/60/1	197-253	20.2	30	13.1	74.0	18	1075	1.8	1/4	10 x 4	2.2	1/3
64HWC4-09-181	208-230/60/1	197-253	14.3	20	9.0	48.0	18	1075	0.9	1/8	10 x 4	2.2	1/3
64HWC4-09-241	208-230/60/1	197-253	20.6	30	13.5	58.3	18	1075	1.6	1/4	10 x 4	2.2	1/3
64HWC4-09-301	208-230/60/1	197-253	20.2	30	13.1	74.0	18	1075	1.8	1/4	10 x 4	2.2	1/3

#### HWC4 R-410A Units

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	86016	26HWC4-09-121P-1 R410A MAGIC-PAK
1	EA	86017	38HWC4-09-181P-1 R410A MAGIC-PAK
1	EA	86018	38HWC4-09-241P-1 R410A MAGIC-PAK
1	EA	86019	51HWC4-09-181P-1 R410A MAGIC-PAK
1	EA	86022	51HWC4-09-241P-1 R410A MAGIC-PAK
1	EA	86023	51HWC4-09-301P-1 R410A MAGIC-PAK
1	EA	86024	64HWC4-09-181P-1 R410A MAGIC-PAK
1	EA	86025	64HWC4-09-241P-1 R410A MAGIC-PAK
1	EA	86026	64HWC4-09-301P-1 R410A MAGIC-PAK

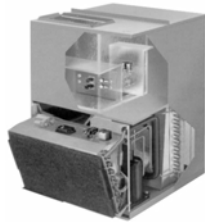
#### Accessories

1	EA	60559	CA239-1 KNOCK DOWN WALL SLEEVE ALL HWC/EWC
1	EA	61691	A242-1 WALL SLEEVE ADAPTER KIT ALL HWC/EWC
1	EA	69874	ADAPT420-2 HWC CHASIS ADAPTER KIT
1	EA	69960	ALPKT389-2 LP CONVERSION KIT
1	EA	86050	HWC4-09-181P-1 R410A HWC4-09-181P-1
1	EA	86051	HWC4-09-241P-1 R410A HWC4-09-241P-1
1	EA	86052	HWC4-09-301P-1 R410A HWC4-09-301P-1
1	EA	86049	ACHASS490 WIRING ADAPTER KIT



## EWC Series 4 Packaged Units

### Electric Heating and Cooling, Thru-the-Wall, R-410A



#### Features

- Completely self-contained heating and cooling package
- No outside condensing unit
- No external refrigerant lines
- No separate cooling coil
- Pre-wired and pre-charged
- Individually metered and controlled
- Slide out cooling chassis

#### Refrigeration System

- High efficiency compressor
- Copper tubing with enhanced fin coils

#### Cabinet

- Attractive, neutral-toned finish

#### Controls

- Color coded wiring for easy service
- Trade available components

#### Specifications

Model No.	Min Circuit Ampacity						Compressor		Outside Fan			Indoor Blower			
	Ckt. 1		Ckt. 2		Max Fuse/HACR Brkr.		Rated Load (amps)	Locked Rotor (amps)	Nom. RPM	Rated Load (amps)	Rated HP	Wheel Dia. x Width (In.)	Rated HP	Refrig. Charge (oz.)	Wt. (lbs)
	208V	230V	208V	230V	208V	230V									
10EWC4-09-241	47	53	NA	NA	40	50	13.5	58.3	1075	1.60	1/4	10 x 4	1/3	52	360
15EWC4-09-241	26	28	44	50	50	60	13.5	58.3	1075	1.60	1/4	10 x 4	1/3	52	360
15EWC4-09-301	25	28	44	50	50	60	13.1	74.0	1075	1.60	1/4	10 x 4	1/3	80	380

#### Performance

Model No.	Cooling				Heating			
	BTUH	EER	S/T	CFM	@240 V		@208 V	
					kW/Hr	Btu/Hr	KW/Hr	Btu/Hr
10EWC4-09-241	22,400	9.0	.74	800	9.6	32,700	7.2	24,600
15EWC4-09-241	22,400	9.0	.74	800	14.4	49,100	10.8	36,900
15EWC-09-301	28,000	9.0	.70	875	14.4	49,100	10.8	36,900

#### Blower Performance

Model No.	Blower Speed	CFM @ ext. Static Pressure-in. w.c. with Filter(s)			
		0.2	0.3	0.4	0.5
EWC244	High	875	825	775	725
	Med.	850	805	760	710
	Low	630	605	575	550

#### EWC Series 4 Packaged Units—R-410A

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	86027	10EWC4-09-241P-1 R410A MAGIC-PAK
1	EA	86028	15EWC4-09-241P-1 R410A MAGIC-PAK
1	EA	86083	15EWC4-09-301P-1 R410A MAGIC-PAK

#### Accessories

Used With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
All HWC/EWC	1	EA	60559	CA239-1 KNOCK DOWN WALL SLEEVE ALL HWC/EWC
All HWC/EWC	1	EA	61691	A242-1 WALL SLEEVE ADAPTER KIT ALL HWC/EWC
All HWC/EWC	1	EA	69874	ADAPT420-2 HWC CHASIS ADAPTER KIT



# TS Split System Commercial Condensing Units

6 to 20 Tons, R-410A



### Refrigeration System

- High pressure switch shuts off unit if abnormal operating conditions cause discharge pressure to rise above setting.
- Loss of charge switch shuts off unit if liquid line pressure falls below setting.
- Hi-capacity driers trap moisture or dirt that could contaminate the refrigerant system.

### Compressors

- TSA072, 090, and 120S4S models feature a single scroll compressor.
- TSA120S4D, 150, 180 and 240 models have two scroll compressors.
- Crankcase heaters prevent migration of liquid refrigerant into compressors and ensures proper compressor lubrication.

### Cabinet

- Heavy-gauge, pre-painted steel cabinet provides superior rust and corrosion protection.
- Heavy duty steel base channels raise the unit off of mounting surface away from damaging moisture.
- Control box located in separate compartment in unit cabinet.

### Warranties

- 5 year limited warranty on compressor
- 1 year limited warranty on parts

## Specifications

Model No.		TSA072S4S	TSA090S4S	TSA120S4D	TSA150S4D	TSA180S4D	TSA240S4D
Nominal Size, Tons		6	7.5	10	12.5	15	20
Condenser Coil	Net Face Area (Sq. Ft.)	29.3	29.3	29.3	34.2	58.7	58.7
	Outer Coil	–	28.4	28.4	33.3	57.7	57.7
	Inner Coil	–	–	–	–	–	–
Tube Diameter: In. – No. of Rows		3/8 – 1	3/8 – 2	3/8 – 2	3/8 – 2	3/8 – 2	3/8 – 2
Fins Per Inch		20	20	20	20	20	20
Condenser Fans	Diameter: In – No. of Blades	(1) 24 – 3	(1) 24 – 4	(2) 24 – 3	(2) 24 – 4	(4) 24 – 3	(4) 24 – 3
	Motor hp	(1) 1/3	(1) 1/2	(2) 1/3	(2) 1/2	(4) 1/3	(4) 1/3
	CFM Total Air Volume	5,100	5,600	8,300	10,300	16,600	16,600
	RPM	1075	1075	1075	1075	1075	1075
	Watts	430	580	830	1130	1660	1660
Connections (Sweat)	Liquid Line – in. (o.d.)	(1) 5/8	(1) 5/8	(2) 5/8	(2) 5/8	(2) 5/8	(2) 5/8
	Suction Line – in. (o.d.)	(1) 1-1/8	(1) 1-1/8	(2) 1-1/8	(2) 1-1/8	(2) 1-1/8	(2) 1-3/8
Shipping Weight (Lbs.)		325	375	505	560	800	890
Dimensions H x W x D In.		48-3/4 x 39-7/8 x 48-3/8	48-3/4 x 39-7/8 x 48-3/8	48-3/4 x 60-1/8 x 43-5/8	48-3/4 x 60-1/8 x 43-5/8	48-3/4 x 60-1/8 x 88-3/4	48-3/4 x 60-1/8 x 88-3/4

Model No.	TSA072S4S		TSA090S4S		TSA120S4D		TSA150S4D		TSA180S4D		TSA240S4D		
Line Voltage Data, 60 Hz., 3 Phase	208/230V	460V	208/230V	460V	208/230V	460V	208/230V	460V	208/230V	460V	208/230V	460V	
Max. Overcurrent Protection (amps) <sup>1</sup>	45	20	50	25	50	25	60	30	90	40	100	50	
Min. Circuit Ampacity <sup>2</sup>	27	14	35	17	41	21	49	25	66	33	78	43	
Compressor	Rated Load amps	19	9.7	25	12.2	18(32)	7.8(15.6)	19(38)	9.7(19.4)	25(50)	12.2(24.4)	30.1(60.2)	16.7(33.4)
	Locked Rotor amps	123	62	164	100	110(220)	52(104)	123(246)	62(124)	164(328)	100(200)	225(450)	114(228)
Condenser Fan	Full Load Amps	2.4	1.3	3	1.5	2.4(4.8)	1.3(2.6)	3(6)	1.5(3)	2.4(9.6)	1.3(5.2)	2.4(9.6)	1.3(5.2)
Motor (1 Phase)	Locked Rotor Amps	4.7	2.4	6	3	4.7(9.4)	2.4(4.8)	6(12)	3(6)	4.7(18.8)	2.4(9.6)	4.7(18.8)	2.4(9.6)

<sup>1</sup> HACR type circuit breaker or fuse.

<sup>2</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

## Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84237	TSA240S4D-G 20T 460V 3PH R410A CONDENSER 45W25
1	EA	84226	TSA072S4S-Y 6T 208/230V 3PH R410A CONDENSER 45W00
1	EA	84227	TSA072S4S-G 6T 460V 3PH R410A CONDENSER 45W01
1	EA	84228	TSA090S4S-Y 7.5T 208/230V 3PH R410A CONDENSER 45W04
1	EA	84229	TSA090S4S-G 7.5T 460V 3PH R410A CONDENSER 45W05
1	EA	84230	TSA120S4D-Y 10T 208/230V 3PH R410A CONDENSER 45W12
1	EA	84231	TSA120S4D-G 10T 460V 3PH R410A CONDENSER 45W13
1	EA	84232	TSA150S4D-Y 12.5T 208/230V 3PH R410A CONDENSER 45W16
1	EA	84233	TSA150S4D-G 12.5T 460V 3PH R410A CONDENSER 45W17
1	EA	84234	TSA180S4D-Y 15T 208/230V 3PH R410A CONDENSER 45W20
1	EA	84235	TSA180S4D-G 15T 460V 3PH R410A CONDENSER 45W21
1	EA	84236	TSA240S4D-Y 20T 230/230V 3PH R410A CONDENSER 45W24



# TA Split System Commercial Air Handlers

## 6 to 20 Tons, R-410A



- 072, 090, 120, and 150 models are equipped with a single blower wheel, 180 and 240 models have dual blower wheels.
- Control box located in separate compartment in unit cabinet. Box may be relocated to alternate location for easier access depending on application.
- Cabinet is constructed of heavy-gauge, galvanized steel. It is completely lined with thick fiberglass insulation resulting in quiet and efficient operation due to the excellent sound deadening and insulating qualities of fiberglass.
- Deep, corrosion resistant plastic drain pan.
- Reversible drain pan allows for drain outlets on either end of cabinet and can be repositioned for horizontal air flow applications.
- Expansion valve is factory installed and piped.
- Multi-circuit coils are equipped with one thermal expansion valve per circuit.
- Refrigerant line inlets (knockouts) are provided on both sides of the cabinet.
- 5 year limited warranty on compressor
- 1 year limited warranty on parts

Model No.		TAA072S4S	TAA090S4D	TAA120S4D	TAA150S4D	TAA180S4D	TAA240S4D
Nominal Tonnage		6	7.5	10	12.5	15	20
Connections	Liquid Line o.d. – in. (sweat)	(1) 5/8	(2) 5/8	(2) 5/8	(2) 5/8	(2) 5/8	(2) 5/8
	Suction/Vapor line o.d. – in. (sweat)	(1) 1-1/8	(2) 7/8	(2) 7/8	(2) 7/8	(2) 1-1/8	(2) 1-1/8
	Condensate drain – in. (fpt)	(1) NPT	(1) NPT	(1) NPT	(1) NPT	(1) NPT	(1) NPT
Evaporator Coil	Net face area – sq. ft.	8.2	8.2	11.3	11.3	16.9	16.9
	Coil split: 1st stage/2nd stage (%)	-	50/50	50/50	50/50	50/50	50/50
	Tube diameter – in.	3/8	3/8	3/8	3/8	3/8	3/8
	Number of rows	3	4	4	4	3	4
Blower and Drive	Fins per inch	14	14	14	14	14	14
	Wheel nominal diameter and width – in.	(1) 15 x 15	(1) 15 x 15	(1) 15 x 15	(1) 15 x 15	(2) 15 x 15	(2) 15 x 15
Filter	Number and size – in.	(3) 16 x 25 x 2	(3) 16 x 25 x 2	(4) 16 x 25 x 2	(4) 16 x 25 x 2	(6) 16 x 25 x 2	(6) 16 x 25 x 2
Shipping Weight (lbs.)		380	400	495	515	760	800
Dimensions H x W x D (In.)		54-3/4 x 29-1/2 x 51-1/4	54-3/4 x 29-1/2 x 51-1/4	54-3/4 x 29-1/2 x 67-1/4	54-3/4 x 29-1/2 x 67-1/4	54-3/4 x 29-1/2 x 96-1/4	54-3/4 x 29-1/2 x 96-1/4

### Air Handlers

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84238	TAA072S4S 6T 208/230V 3PH R410A AIR HANDLER 45W60
1	EA	84239	TAA072S4S 6T 460V 3PH R410A AIR HANDLER 45W61
1	EA	84240	TAA090S4D 7.5T 208/230V 3PH R410 AIR HANDLER 45W64
1	EA	84241	TAA090S4D 7.5T 460V 3PH R410A AIR HANDLER 45W65
1	EA	84242	TAA120S4D 10T 208/230V 3PH R410A AIR HANDLER 45W68
1	EA	84243	TAA120S4D 10T 460V 3PH R410A AIR HANDLER 45W69
1	EA	84244	TAA150S4D 12.5T 208/230V 3PH R410A AIR HANDLER 45W72
1	EA	84245	TAA150S4D 12.5T 460V 3PH R410A AIR HANDLER 45W73
1	EA	84246	TAA180S4D 15T 208/230V 3PH R410A AIR HANDLER 45W76
1	EA	84247	TAA180S4D 15T 460V 3PH R410A AIR HANDLER 45W77
1	EA	84248	TAA240S4D 20T 208/230V 3PH R410A AIR HANDLER 45W80
1	EA	84249	TAA240D4D 20T 460V 3PH R410A AIR HANDLER 45W81

### Heat Kits

1	EA	84252	T3EH0040N-1Y 40KW 208/240 3PH HEAT KIT 49W39
1	EA	84250	T3H0025LM1Y 25KW 208/240V 3PH HEAT KIT 46W52
1	EA	84251	T3H0035LM1Y 35KW 208/240V 3PH HEAT KIT 46W53
1	EA	84255	T3EH0040N-1G 40KW 460V 3PH HEAT KIT 49W40

**ALLIED** Commercial **KG A Model Number Guide**

<b>K</b>	<b>G</b>	<b>A</b>	<b>060</b>	<b>S</b>	<b>4</b>	<b>B</b>	<b>S</b>	<b>1</b>	<b>Y</b>
Brand/Family K = K Product Line	Unit Type G = Packaged Gas Heat with Electric Cooling	Major Design Sequence A = 1st Generation B = 2nd Generation	Nominal Cooling Capacity (Tons) 024=2 030=2.5 036 = 3 048 = 4 060 = 5 072 = 6 090 =7.5 092=7.5 102 = 8.5 120 = 10 150 = 12.5 180 = 15 210 = 17.5 240 = 20 300 = 25	Cooling Efficiency S = Standard Efficiency	Refrigerant Type 4 = R-410A	Blower Type D = Direct Drive B = Belt Drive	Heating Type 3 to 6 Tons S = Standard Gas Heat, 1 Stage M = Medium Gas Heat, 1 Stage H = High Gas Heat, 2 Stage	Minor Design Sequence 1 = 1st Revision 2 = 2nd Revision 3 = 3rd Revision	Voltage P = 208/230V-1 phase-60hz Y = 208/230V-3 phase-60hz G = 460V-3 phase-60hz J = 575V-3 phase-60hz



# KGA Packaged Gas/Electric Rooftop Units

2 through 7.5 Tons, R-410A



### Cabinet

- Heavy-gauge steel panels and full perimeter heavy-gauge galvanized steel base rail.
- Units are shipped in downflow (vertical) configuration and can be field converted to horizontal air flow.
- Large access panels are hinged and have quarter-turn, latching handles for quick and easy access to maintenance areas.

### Heating System

- Heat exchanger: Tubular construction, aluminized steel, life cycle tested.
- Electronic pilot ignition.

### Warranties and Approvals

- Limited 10-year warranty on aluminized heat exchanger.
- Limited 5-year warranty on compressor.
- Limited 1-year on all other covered components.
- ETL and CSA listed.
- ASHRAE 90.1 compliant.

### Cooling System

- Designed to maximize sensible and latent cooling performance at design conditions.
- Scroll compressors used for high performance, reliability and quiet operation.
- Copper tube coil construction, enhanced rippled-edge aluminum fins, with flared shoulder tubing connections, and silver soldered construction for improved heat transfer. Factory leak tested.
- Outdoor coil fan motor is thermal overload protected, totally enclosed, with permanently lubricated sleeve (024, 030, 036 and 048 models) or ball bearings (060, 072, and 090 models) and is shaft up, wire basket mount.

## 2 to 5 Ton Direct Drive

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	86084	KGA024S4DS-P L0881 208/230V 1PH 2T 65KB DIR DR GAS/ELEC PKG R410
1	EA	86085	KGA030S4DS-P L0883 208/230V 1PH 2.5T 65KB DIR DR GAS/ELEC PKG R410
1	EA	86086	KGA036S4DM-P L0890 208/230V 1PH 3T 105KB DIR DR GAS/ELEC PKG R410
1	EA	86087	KGA036S4DM-Y L0891 208/230V 3PH 3T 105KB DIR DR GAS/ELEC PKG R410
1	EA	86088	KGA036S4DM-G L0888 460V 3PH 3T 105KB DIR DR GAS/ELEC PKG R410
1	EA	86089	KGA048S4DH-P L0901 208/230V 1PH 4T 150KB DD GAS/ELEC PKG R410
1	EA	86090	KGA048S4DH-Y L0902 208/230V 3PH 4T 150KB DIR DR GAS/ELEC PKG R410
1	EA	86091	KGA048S4DH-G L0899 460V 3PH 4T 150KB DIR DR GAS/ELEC PKG R410
1	EA	86092	KGA060S4DH-P L0917 208/230V 1PH 5T 150KB DIR DR GAS/ELEC PKG R410
1	EA	86093	KGA060S4DH-Y L0919 208/230V 3PH 5T 150KB DIR DR GAS/ELEC PKG R410
1	EA	86094	KGA060S4DH-G L0915 460V 3PH 5T 150KB DIR DR GAS/ELEC PKG R410

## 6 Ton Belt Drive Rooftop Units

1	EA	86096	KGA072S4BH-Y L0926 208/230V 3PH 6T 150KB BELT DR GAS/ELEC PK R410
1	EA	86097	KGA072S4BH-G L0924 460V 3PH 6T 150KB BELT DR GAS/ELEC PK R410

## 7-1/2 Ton Belt Drive with Economizer and Damper Installed

Non-Stock

1	EA	86047	KGA090S4BM-Y L0934 208/230V 3PH 7.5T GAS/ELEC W/ECON&DAMP L0092 NS
1	EA	86053	KGA090S4BH-Y L0089 208/230V 3PH 7.5T GAS/ELEC W/ECON&DAMP L0089 NS
1	EA	86054	KGA090S4BS-G L0933 460V 3PH 7.5T GAS/ELEC W/ECON&DAMP L0091 NS

## Accessories

1	EA	61674	16W87 3-5T T-SERIES ECONOMIZER HOOD -SHORT CABINET
1	EA	61677	53W34 3-5T T-SERIES 16W88 MANUAL DAMPER W/HOOD-T1DAMP11A
1	EA	63066	76M37 3-25T T-SERIES SENSIBLE CONTROL KIT
1	EA	86029	16W94 14" 2-6T K-SERIES CLIP LOCK ROOF CURB - DOWNFLOW
1	EA	86032	79W85 2-5T K-SERIES WAS 36W96 ECONOMIZER W/HOOD-SHORT CAB
1	EA	86033	79W86 (36W97) 6T T-SERIES ECONOMIZER W/HOOD-TALL CAB
1	EA	86319	17W71 T1SNSR60AN1 DIFFERENTIAL ENTHALPY SENSOR
1	EA	86320	16W91 T1DAMP11N-1 MANUAL DAMPER WITH HOOD
1	EA	86321	53W78 C1SNSR44AP1 SMOKE DETECTOR SUPPLY OR RTN

**Specifications for units with Direct Drive Blower**

	Nominal Tonnage	2 Ton	2.5 Ton	3 Ton	4 Ton	5 Ton
General Data	Model Number	<b>KGA024S4D</b>	<b>KGA030S4D</b>	<b>KGA036S4D</b>	<b>KGA048S4D</b>	<b>KGA060S4D</b>
	Shipping Weight	591	593	594	631	661
	Dimensions (H x W x D)	38-7/8 x 85-1/4 x 47				
	Efficiency Type	Standard	Standard	Standard	Standard	Standard
Cooling Performance	Gross Cooling Capacity (Btuh)	24,400	29,800	37,500	50,000	61,800
	Net Cooling Capacity (Btuh )	23,600	28,800	36,000	48,000	59,000
	ARI Rated Airflow (cfm)	840	1,000	1,200	1,600	1,800
	Total Unit Power	2.1	2.6	3.4	4.4	5.3
	SEER (BTUH/Watt) <sup>1</sup>	13.0	13.0	13.0	13.0	13.0
	EER (BTUH/Watt)	11.4	11.2	10.7	11	11.2
Refrigerant Charge Furnished	7 lbs. 0 oz.	7 lbs. 12 oz.	8 lbs. 5 oz.	8 lbs. 10 oz.	11 lbs. 0 oz.	
Sound Rating Number (dB)	75	75	75	75	82	
Compressor Type	One Per Unit	Scroll	Scroll	Scroll	Scroll	Scroll
Condenser Coil	Net face area (Sq. Ft.)	15.6	15.6	15.6	15.6	15.6
	Tube diameter (In.)	3/8	3/8	3/8	3/8	3/8
	Number of rows	1.0	1.0	1.0	1.5	2.0
	Fins per inch	20	20	20	20	20
Condenser Fan	Motor Horsepower (HP)	1/4	1/4	1/4	1/4	1/3
	Motor rpm	825	825	825	825	1075
	Total Motor watts	250	250	250	250	370
	Diameter (In.) - No. of blades	24 – 3	24 – 3	24 – 3	24 – 3	24 – 3
	Total air volume (cfm)	3,700	3,700	3,700	3,500	4,300
Evaporator Coil	Net face area (Sq. Ft.)	7.8	7.8	7.8	7.8	7.8
	Tube diameter (In.)	3/8	3/8	3/8	3/8	3/8
	Number of rows	3	3	3	3	4
	Fins per inch	14	14	14	14	14
	Drain Connection (No. and Size)	(1) 1 in. NPT	(1) 1 in. NPT	(1) 1 in. NPT	(1) 1 in. NPT	(1) 1 in. NPT
	Expansion device type	Balanced Port Thermostatic Expansion Valve, removable power head				
Standard Indoor	Nominal motor HP	.25	.25	.5	.5	.75
Blower and Drive	Wheel nominal diameter x width (In.)	10 x 10	10 x 10	10 x 10	10 x 10	11 x 10
Filters	Type of filter	Disposable,				
	Number and size (In.)	(4) 16 x 20 x 2				
Electrical Characteristics – 60 Hz		208/230V 1 Phase	208/230V 1 Phase	208/230V 1 Phase 208/230V, 460V & 575V 3 Phase	208/230V 1 Phase 208/230V, 460V & 575V 3 Phase	208/230V 1 Phase 208/230V, 460V & 575V 3 Phase

<sup>1</sup> Certified in accordance with USE certification program, which is based on ARI Standard 210/240, 95° F outdoor air temperature and 80° F db/67° F wb entering evaporator air, minimum external duct static pressure.

<sup>2</sup> Sound Rating Number rated in accordance with test conditions included in ARI Standard 270.

**Continued on the Following Page**

*Continued from the Previous Page*

**Specifications for units with Direct Drive Blower**

		6 Ton	7.5 Ton
General Data	Nominal Tonnage	6 Ton	7.5 Ton
	Model Number	<b>KGA072S4B</b>	<b>KGA090S4B</b>
	Shipping Weight	760	865
	Dimensions (H x W x D)	38-7/8 x 85-1/4 x 46-7/8	
	Efficiency Type	Standard	Standard
Cooling Performance	Gross Cooling Capacity (Btuh)	72,800	92,000
	Net Cooling Capacity (Btuh )	70,000 <sup>1</sup>	90,000 <sup>1</sup>
	ARI Rated Airflow (cfm)	2,100	2,660
	Total Unit Power	6.3	8.2
	EER (BTUH/Watt)	11.2 <sup>1</sup>	11.2 <sup>1</sup>
	Refrigerant Charge Furnished	14 lbs. 12 oz.	17 lbs. 0 oz.
Sound Rating Number (dB)	82	79	
Compressor Type	One Per Unit	Scroll	Scroll
Condenser Coil	Net face area (Sq. Ft.)	19.3	28.0
	Tube diameter (In.)	3/8	3/8
	Number of rows	2	2
	Fins per inch	20	20
Condenser Fan	Motor Horsepower (HP)	1/3	1/3
	Motor rpm	1075	1075
	Total Motor watts	405	350
	Diameter (In.) - No. of blades	24-3	24-4
	Total air volume (cfm)	4,800	4,900
Evaporator Coil	Net face area (Sq. Ft.)	9.7	9.7
	Tube diameter (In.)	3/8	3/8
	Number of rows	4	4
	Fins per inch	14	14
	Drain Connection (No. and Size)	(1) 3/4 in. NPT	(1) 3/4 in. NPT
	Expansion device type	Balanced Port Thermostatic Expansion Valve, removable power head	
Standard Indoor	Nominal motor HP	1.5 hp, 2 hp	1 hp, 3 hp
Blower and Drive	Wheel nominal diameter x width (In.)	10 x 10	15 x 9
Filters	Type of filter	Disposable	
	Number and size (In.)	(4) 20 x 20 x 2	(4) 20 x 20 x 2
Electrical Characteristics – 60 Hz		208/230V, 460V & 575V 3 Phase	208/230V, 460V & 575V 3 Phase

<sup>1</sup> Certified in accordance with USE certification program, which is based on ARI Standard 210/240, 95° F outdoor air temperature and 80° F db/67° F wb entering evaporator air, minimum external duct static pressure.

<sup>2</sup> Sound Rating Number rated in accordance with test conditions included in ARI Standard 270.





## KGA Packaged Gas/Electric Rooftop Units

7.5 to 12.5 Tons, R-410A



### Cabinet

- Heavy-gauge steel panels and full perimeter heavy-gauge galvanized steel base rail.
- Units are shipped in downflow (vertical) configuration and can be field converted to horizontal air flow.
- Large access panels are hinged and have quarter-turn, latching handles for quick and easy access to maintenance areas.

### Heating System

- Heat exchanger: Tubular construction, aluminized steel, life cycle tested.
- Electronic pilot ignition.

### Warranties and Approvals

- Limited 10-year warranty on aluminized heat exchanger.
- Limited 5-year warranty on compressor.
- Limited 1-year on all other covered components
- ETL and CSA listed.
- ASHRAE 90.1 compliant.

### Cooling System

- Designed to maximize sensible and latent cooling performance at design conditions.
- Scroll compressors used for high performance, reliability and quiet operation.
- Copper tube coil construction, enhanced rippled-edge aluminum fins, with flared shoulder tubing connections, and silver soldered construction for improved heat transfer. Factory leak tested.
- Outdoor coil fan motor is thermal overload protected, totally enclosed, permanently lubricated ball bearings, shaft up, wire basket mount.

### Belt Drive with Economizer and Damper Installed

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	86058	KGA092S4BM-Y L0218 208/230V 3PH 7.5T GAS/ELEC W/ECON&DAMP L0218
1	EA	86060	KGA092S4BM-G L0221 460V 3PH 7.5T GAS/ELEC W/ECON&DAMP L0221
1	EA	86062	KGA102S4BM-Y L0233 208/230V 3PH 8.5T GAS/ELEC W/ECON&DAMP L0233
1	EA	86063	KGA102S4BM-G L0236 460V 3PH 8.5T GAS/ELEC W/ECON&DAMP L0236 NS
1	EA	86067	KGA120S4BH-Y L0247 208/230V 3PH 10T GAS/ELEC W/ECON&DAMP L0247
1	EA	86069	KGA120S4BH-G L0250 460V 3PH 10T 240KB GAS/ELEC W/ECON&DAMP L0250
1	EA	86071	KGA150S4BH-Y L0261 208/230V 3PH 12.5T GAS/ELEC W/ECON&DAMP L0261
1	EA	86073	KGA150S4BH-G L0265 460V 3PH 12.5T GAS/ELEC W/ECON&DAMP L0265

### Belt Drive

Non-Stock

1	EA	86057	KGA092S4BM-Y L0217 208/230V 3PH 7.5T GAS/ELEC ROOFTOP L0217 NS
1	EA	86059	KGA092S4BM-G L0222 460V 3PH 7.5T GAS/ELEC ROOFTOP L0222 NS
1	EA	86064	KGA120S4BH-Y L0246 208/230V 3PH 10T GAS/ELEC ROOFTOP L0246 NS
1	EA	86068	KGA120S4BH-G L0252 460V 3PH 10T GAS/ELEC ROOFTOP L0252 NS
1	EA	86070	KGA150S4BH-Y L0263 208/230V 3PH 12.5T GAS/ELEC ROOFTOP L0263 NS
1	EA	86072	KGA150S4BH-G L0268 460V 3PH 12.5T GAS/ELEC ROOFTOP L0268 NS

### Accessories

1	EA	68348	29G08 FD11-95 CONCENTRIC DIFF-FLUSH
1	EA	68349	29G09 FD11-135 DIFFUSER FLUSH
1	EA	65969	49K56 LASRT15 CONCENTRIC DIFFUSR TRANS
1	EA	86352	51W25 K1HECK00B-1 HORIZONTAL DISCHARGE KIT
1	EA	65967	53K04 7.5-12.5T T-SERIES HORIZ BAROMETRIC RELIEF DAMPER
1	EA	86351	53W48 MANUAL DAMPER W/HOOD-T1DAMP10B
1	EA	86350	53W64 SINGLE ENTHALPY CONTROL C1SNSR64FF1
1	EA	86354	53W80 SMOKE DETECTOR C1SNSR44B-1
1	EA	86355	54W16 LOW AMBIENT KIT K1SNSR33B-1
1	EA	86082	54W47 14" 7.5-12.5T K-SERIES CLIP LOCK ROOF CURB - DOWNFLOW
1	EA	86349	54W55 ECONOMIZER K1ECON20B-1
1	EA	86369	54W56 80 AMP DISCONNECT C1DISC080B-1
1	EA	86370	54W57 150 AMP DISCONNECT C1DISC150B-1
1	EA	86356	54W95 C1GPKT01B-01 BOTTOM GAS PIPING KIT
1	EA	86340	74M70 GFI SERVICE OUTLET LTAG1K10/15

# ALLIED Commercial KGA Packaged Rooftop Units, 7.5 to 12.5 Ton Specifications

## Specifications for Units with Direct Drive Blower

		7.5 Ton	8.5 Ton	10 Ton	12.5 Ton
General Data	Nominal Tonnage	7.5 Ton	8.5 Ton	10 Ton	12.5 Ton
	Model Number	<b>KGA092S4B</b>	<b>KGA102S4B</b>	<b>KGA120S4B</b>	<b>KGA150S4B</b>
	Shipping Weight	1075	1095	1135	1225
	Dimensions (H x W x D)	46-7/8 x 101-1/4 x 60-1/8			
	Efficiency Type	Standard	Standard	Standard	Standard
Cooling Performance	Gross Cooling Capacity (BTUH)	88,900	100,500	119,600	144,800
	Net Cooling Capacity (BTUH <sup>1</sup> )	86,000	97,000	115,000	138,000
	ARI Rated Airflow (CFM)	3,000	3,400	3,800	4,300
	Total Unit Power	7.8	8.8	10.4	12.8
	EER (BTUH/Watt) <sup>1</sup>	11	11	11	10.8
	IEER (BTUH/Watt) <sup>1</sup>	11.2	11.2	11.2	11
	Refrigerant Charge Furnished (Circuit 1/Circuit2)	7 lbs. 8 oz./ 7 lbs. 0 oz.	8 lbs. 8 oz./ 8 lbs. 8 oz.	10 lbs. 0 oz./ 10 lbs. 0 oz.	14 lbs. 0 oz./ 12 lbs. 0 oz.
Compressor Type (No.)	Scroll (2)				
Condenser Coil	Net Face Area (Sq. Ft.)	20.42	24.5	28.0	28.0
	Tube Diameter (In.)	3/8	3/8	3/8	3/8
	Number of Rows	2	2	2	3
	Fins per Inch	20	20	20	20
Condenser Fan	Motor Horsepower (HP)	(2) 1/3	(2) 1/3	(2) 1/3	(2) 1/2
	Motor RPM	1075	1075	1075	1075
	Total Motor Watts	670	670	670	830
	(No.) Diameter In.	(2) 24			
	No. of Blades	3	3	3	3
Evaporator Coil	Total Air Volume (cfm)	7,200	7,400	7,800	8,800
	Net Face Area (Sq. Ft.)	12.78	12.78	12.78	13.54
	Tube Diameter (In.)	3/8	3/8	3/8	3/8
	Number of Rows	2	2	3	4
	Fins per Inch	14	14	14	14
	Drain Connection (No.)	(1) 1 in. NPT coupling			
	Expansion Device Type	Balanced Port TXV, removable power head			
Standard Indoor Blower and Drive	Nominal Motor HP	2 hp, 3 hp, 5 hp			
	Wheel Nominal Diameter x Width (In.)	(1) 15 x 15			
Filters	Type of Filter	Disposable			
	Number and Size (In.)	(4) 20 x 25 x 2			
Electrical Characteristics – 60 Hz	208/230V, 460V or 575V, 60 Hz, 3 Phase				

**NOTE:**

Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

<sup>1</sup> Certified in accordance with USE certification program, which is based on ARI Standard 210/240, 95° F outdoor air temperature and 80° F db/67° F wb entering evaporator air, minimum external duct static pressure.

## Specifications for Gas Heat

Heat Input Type			Standard	Medium	High
Number of Gas Heat Stages			2	2	2
Gas Heating Performance	Input Btuh	First Stage	84,500	117,000	156,000
		Second Stage	130,000	180,000	240,000
	Output Btuh	Second Stage	104,000	144,000	192,000
Temperature Rise Range (°F)			15 - 45	30 - 60	40 - 70
Thermal Efficiency (%)			80		
Gas Supply Connections			3/4 in. NPT		
Recommended Gas Supply Pressure - in W.G.	Natural		7 in. w.c.		
	LPG/Propane		11 in. w.c.		



## KGA Packaged Gas/Electric Rooftop Units 15 to 25 Tons, R-410A



### Cooling System

- Designed to maximize sensible and latent cooling performance at design conditions.
- Scroll compressors used for high performance, reliability and quiet operation.
- Copper tube coil construction, enhanced rippled-edge aluminum fins, with flared shoulder tubing connections, and silver soldered construction for improved heat transfer. Factory leak tested.
- Outdoor coil fan motor is thermal overload protected, totally enclosed, with permanently lubricated ball bearings, shaft up, wire basket mount.

### Heating System

- Heat exchanger: Tubular construction, aluminized steel, life cycle tested.
- Electronic pilot ignition.

### Cabinet

- Heavy-gauge steel panels and full perimeter heavy-gauge galvanized steel base rail.
- Units are shipped in downflow (vertical) or horizontal return air configuration.
- Access panels for the filter, blower, and compressor/controls section are hinged and have seals and quarter-turn latching handles to provide a tight air and water seal.

### Warranties and Approvals

- Limited 10-year warranty on aluminized heat exchanger.
- Limited 5-year warranty on compressor.
- Limited 1-year on all other covered components

### Belt Drive with Economizer and Damper Installed

### Prices Available on Request Non-Stock

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	86075	KGA180S4BM-G L0335 460V 3PH 15T 360KB GAS/ELEC W/ECON&DAMP NS
1	EA	86074	KGA180S4BM-Y L0332 208/230V 3PH 15T 360KB GAS/ELEC W/ECON&DAMP NS
1	EA	86077	KGA210S4BH-G L0342 460V 3PH 17.5T 480KB GAS/ELEC W/ECON&DAMP NS
1	EA	86076	KGA210S4BH-Y L0343 208/230VV 3PH 17.5T 480KB GAS/ELEC W/ECON&DAMP NS
1	EA	86079	KGA240S4BH-G L0349 460V 3PH 20T 480KB GAS/ELEC W/ECON&DAMP NS
1	EA	86078	KGA240S4BH-Y L0351 208/230V 3PH 20T 480KB GAS/ELEC W/ECON&DAMP NS
1	EA	86081	KGA300S4BH-G L0359 460V 3PH 25T 480KB GAS/ELEC W/ECON&DAMP NS
1	EA	86080	KGA300S4BH-Y L0361 208/230V 3PH 25T 480KB GAS/ELEC W/ECON&DAMP NS

### Accessories

1	EA	63121	16K88 24" 15-25T T-SERIES ROOF CURB - DOWNFLOW
1	EA	63131	16K99 15-25T T SERIES HORIZON BAROMETRIC DAMPER W/HOOD
1	EA	63138	29G06 RTD11-185 STEP DOWN DIFFUSER
1	EA	86031	33K44 14" 15-25T T-SERIES CLIP LOCK ROOF CURB - DOWNFLOW
1	EA	86350	53W64 SINGLE ENTHALPY CONTROL C1SNSR64FF1
1	EA	86382	53W82 SMOKE DETECTOR C1SNSR44C-1
1	EA	86386	54W91 80 AMP FOR KGA DISCONNECT C1DISC080C-1
1	EA	86387	54W92 150 AMP FOR KGA DISCONNECT K1DISC150C-1
1	EA	86377	55W72 LOW AMBIENT KIT K1SNSR33C-1
1	EA	86340	74M70 GFI SERVICE OUTLET LTAGIK10/15
1	EA	86383	85M31 BOTTOM GAS PIPING KIT C1PKT1C1
1	EA	86386	54W91 80 AMP FOR KGA DISCONNECT C1DISC080C-1
1	EA	86387	54W92 150 AMP FOR KGA DISCONNECT K1DISC150C-1

# ALLIED Commercial KGA Packaged Rooftop Units, 15 to 25 Ton Specifications

General Data	Nominal Tonnage	15 Ton	17.5 Ton	20 Ton	25 Ton
	Model Number	<b>KGA180S4B</b>	<b>KGA210S4B</b>	<b>KGA240S4B</b>	<b>KGA300S4B</b>
	Shipping Weight	2055	2200	2470	2470
	Dimensions (H x W x D)	54-1/4 x 107-3/4 x 91-1/8			
	Efficiency Type	Standard	Standard	Standard	Standard
Cooling Performance	Gross Cooling Capacity (Btuh)	182,000	204,000	238,000	282,000
	Net Cooling Capacity (BTUH <sup>1</sup> )	176,000	198,000	228,000	270,000
	ARI Rated Airflow (CFM)	6,000	6,125	7,700	8,750
	Total Unit Power	16.3	18.4	21.1	26.9
	EER (BTUH/Watt) <sup>1</sup>	10.8	10.8	10.8	10.0
	IEER (BTUH/Watt) <sup>1</sup>	11.0	11.0	11.0	9.9
	Refrigerant Charge Furnished (Circuit 1/Circuit 2/Circuit 3)	14 lbs. 0 oz./14 lbs. 0 oz./NA	10 lbs. 8 oz./10 lbs. 8 oz./10 lbs. 8 oz.	14 lbs. 0 oz./14 lbs. 0 oz./14 lbs. 0 oz.	14 lbs. 8 oz./14 lbs. 8 oz./14 lbs. 8 oz.
	Compressor Type (No.)	Scroll (2)	Scroll (3)	Scroll (3)	Scroll (3)
Condenser Coil	Net Face Area (Sq. Ft.)	41.4	41.4	55.2	55.2
	Tube Diameter (In.)	3/8	3/8	3/8	3/8
	Number of Rows	2	2	2	2
	Fins per Inch	20	20	20	20
Condenser Fan	Motor HorsePower (HP)	(3) 1/3	(3) 1/3	(4) 1/3	(4) 1/3
	Motor RPM	1075	1075	1075	1075
	Total Motor Watts	1100	1100	1500	1500
	(No.) Diameter In.	(3) 24	(3) 24	(4) 24	(4) 24
	No. of Blades	3	3	3	3
	Total Air Volume (CFM)	12,000	12,000	16,000	16,000
Evaporator Coil	Net Face Area (Sq. Ft.)	18.6	21.4	21.4	21.4
	Tube Diameter (In.)	3/8	3/8	3/8	3/8
	Number of Rows	3	3	4	4
	Fins per Inch	14	14	14	14
	Drain Connection (No.)	(1) 1 in. FPT			
	Expansion Device Type	Balanced Port TXV removable power head			
Standard Indoor Blower and Drive	Nominal Motor HP	3 hp, 5 hp, 7.5 hp		5 hp, 7.5 hp, 10 hp	
	Wheel Nominal Diameter x Width (In.)	(2) 15x 15			
Filters	Type of Filter	Fiberglass, Disposable			
	(No.) and Size In.	(6) 24 x 24 x 2			
Electrical Characteristics – 60 Hz		208/230V, 460V or 575V, 60 hz, 3 Phase			

**NOTE:**

Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

<sup>1</sup> Certified in accordance with USE certification program, which is based on ARI Standard 210/240, 95° F outdoor air temperature and 80° F db/67° F wb entering evaporator air, minimum external duct static pressure.

## Specifications for Gas Heat

Heat Input Type			Standard	Medium	High
Number of Gas Heat Stages			2	2	2
Gas Heating	Input Btuh	First Stage	169,000	234,000	312,000
		Second Stage	260,000	360,000	480,000
Performance	Output Btuh	Second Stage	208,000	288,000	384,000
Temperature Rise Range (°F)			15 - 45	30 - 60	40 - 70
Thermal Efficiency (%)			80		
Gas Supply Connections			1 in. NPT		
Recommended Gas Supply Pressure - in W.G.	Natural		7 in. w.c.		
	LPG/Propane		11 in. w.c.		



# LF24 Compact and Gas Fired Unit Heaters



Standard



Compact

### Features

- **Heating System:** 24-volt redundant combination gas control valve, solid-state electronic direct spark ignition, electronic flame sensor control, and pressure switch.
- **Inshot Burners:** Constructed of aluminized steel. Removable from unit for ease of service.
- **Tubular Heat Exchanger:** Aluminized steel for superior resistance to corrosion and oxidation. Curving design allows complete exposure of heating surfaces to supply air stream. Round tube surfaces allow for excellent heat transfer.
- **Limit Control:** Fixed temperature setting to protect unit from abnormal operation conditions.
- **Cabinet:** Heavy gauge painted steel. Inside insulation keeps outer cabinet surface low. Adjustable louvers for control of air flow direction.

### Standard Models

- For commercial applications.
- 80.5% efficient.
- 115,000 to 390,000 BTU/H input.

### Compact Models

- For garages and non-confined living spaces.
- 81% efficient.
- 30,000 to 75,000 BTU/H input.

### Approvals

- Approved for vertical or horizontal venting.
- CSA Certified

### Warranties

- 10 year limited warranty on aluminized steel heat exchanger.
- 1 year limited warranty on all other covered components.
- **Compact Models Only:**  
5 year limited warranty on solid state ignition module in residential applications.  
1 year limited warranty on solid state ignition module in non-residential applications.

Model No.	Heating Input*	Heating Output**	Efficiency	Flue Size (In.)‡	Gas, Line, Natural	Gas, Line, LP	Electrical	Shipping Weight
<b>Standard Unit Heaters</b>								
LF24-115A	115,000	92,000	80%	4	1/2	1/2	115/60/1	140
LF24-145A	145,000	116,000	80%	4	1/2	1/2	115/60/1	150
LF24-175A	172,500	138,000	80%	5	1/2	1/2	115/60/1	165
LF24-200A	195,000	156,000	80%	5	1/2	1/2	115/60/1	165
LF24-230A	230,000	184,000	80%	5	3/4	3/4	115/60/1	270
LF24-300A	300,000	241,500	80.5%	6	3/4	3/4	115/60/1	305
LF24-345A	245,000	276,000	80%	6	3/4	3/4	115/60/1	310
LF24-400A	390,000	312,000	80%	6	3/4	3/4	115/60/1	310
<b>Compact Unit Heaters</b>								
LF24-30A†	30,000	24,300	81%	3	1/2	1/2	115/60/1	60
LF24-45A†	45,000	36,500	81%	3	1/2	1/2	115/60/1	63
LF24-60A†	60,000	48,000	80%	4	1/2	1/2	115/60/1	87
LF24-75A†	75,000	60,000	80%	4	1/2	1/2	115/60/1	91

\* Heating input same for natural or L.P. gas.

\*\* Heating output same for natural or L.P. gas.

‡ Round pipe adaptor is furnished with heater for flue connection.

† Stainless steel venting material from DuraVent can be found in the Chimney and Venting section in Group 4 of this catalog.

### Standard Unit Heaters

Prices Available on Request

Dimensions H x W x D	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
32-3/16 x 20-3/16 x 31-5/16	1	EA	60956	LF24-115A 115,000 BTU UNIT HEATER 23W52
32-3/16 x 20-3/16 x 31-5/16	1	EA	60961	LF24-145A 145,000 BTU UNIT HEATER 23W54
32-3/16 x 23-1/8 x 31-5/16	1	EA	60966	LF24-175A 175,000 BTU UNIT HEATER 23W56
32-3/16 x 23-1/8 x 31-5/16	1	EA	60968	LF24-200A 200,000 BTU UNIT HEATER 89K88
32-3/16 x 41-1/8 x 31-5/16	1	EA	60973	LF24-230A 230,000 BTU UNIT HEATER 23W58
32-3/16 x 41-1/8 x 31-5/16	1	EA	60976	LF24-300A 300,000 BTU UNIT HEATER 26J80
32-3/16 x 41-1/8 x 31-5/16	1	EA	60978	LF24-345A 345,000 BTU UNIT HEATER 65K97
32-3/16 x 41-1/8 x 31-5/16	1	EA	60984	LF24-400A 400,000 BTU UNIT HEATER 86K41

### Compact Unit Heaters

12 x 25 x 18-1/2	1	EA	60936	LF24-30A 30,000 BTU COMPACT UNIT HEATER 40K86
12 x 25 x 18-1/2	1	EA	60937	LF24-45A 45,000 BTU COMPACT UNIT HEATER 40K87
17 x 25 x 18-1/2	1	EA	60939	LF24-60A 60,000 BTU COMPACT UNIT HEATER 11L41A
17 x 25 x 18-1/2	1	EA	60940	LF24-75A 75,000 BTU COMPACT UNIT HEATER 11L42

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**LP Kits**

Fits the Following Units	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
Compact 30A, 45A, 60A, 75A	1	EA	65816	20L05 LP KIT FOR LF24-30,45,60,75	—
Standard 400A	1	EA	65727	20L06 LP KIT FOR LF24-400A	—
Standard 200A	1	EA	65728	20L07 LP KIT FOR LF24-200A	—
Standard 115A, 145A, 175A	1	EA	66901	63J56 LP KIT FOR LF24-115/145/175	—
Standard 230, 345	1	EA	66902	63J57 LP KIT FOR LF24-230,345	—

**ALLIED Commercial Parts for Commercial Unit Heaters**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	66951	10J58 T6-2102 IGNITION CONTROL	—
1	EA	66959	10J59 T6-2103 PRESSURE SWITCH	—
1	EA	66949	13H33 R38320B001 GAS VALVE	—
1	EA	66953	17J56 65209300 ELECTRODE SENSOR	—
1	EA	66952	17J57 65209400 ELECTRODE IGNITOR	—
1	EA	66977	17J58 T6-2110 BURNER	—
1	EA	66963	19J04 65237500 IND DRAFT BLOWER	—
1	EA	66956	19J81 65208800 LIMIT CONTROL	—
1	EA	66964	20J89 65204100 FLUE BLOWER	—
1	EA	66975	20J92 5IN 65200400 FLUE ADAPTOR	—
1	EA	66950	20J96 GAS VALVE	—
1	EA	66957	20J98 65220500 LIMIT CONTROL	—
1	EA	66978	20J99 65207900 AUX LIMIT	—
1	EA	66960	26W76 .40IN WC 65289200 PRESSURE SWITCH	—
1	EA	66980	27K79 65257300 LIMIT CONTROL	—
1	EA	66948	28J76 65211811 HEAT EXCHANGER	—
1	EA	69207	43H89 K10 CONDENSER RELAY	—
1	EA	60537	46K13 20IN FAN BLADE R41518-001	—
1	EA	63459	46K90 R41667-001 COMBUSTION GASKET	—
1	EA	66967	60905 14" 65248500 FAN BLADE	—
1	EA	66954	78H55 120V 65209700 TRANSFORMER	—
1	EA	66993	85K35 65208200 GAS VALVE (60J91)	—
1	EA	66965	96M54 65333000 1/8HP 115V FAN MOTOR	—
1	EA	63436	ALPKT550 LP KIT GC93 & GU93	—
1	EA	67406	ALPKT516-4 LP KIT ALL 80% 90%	—
1	EA	60535	R40923-015 LIMIT SWITCH	—
1	EA	60541	R43110-002 IGNITION CONTROL (KIT)	—

**ARMSTRONG AIR Armstrong Parts**



Handling charge used for in-warranty compressors, heat exchangers, and parts.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	99999	HANDLING CHARGE	—

**Warranties**

1	EA	91693	4 YR LTD WARR	—
1	EA	91694	4 YR LTD WARR	—
1	EA	91695	4 YR LTD WARR	—

**Parts**

1	EA	60739	00836012 10 5/8 D X 10 5/8 W BLOWER WHEEL	—
1	EA	60738	00836112 10 5/8 D X 8 W BLOWER WHEEL	—
1	EA	60741	01331602 10X10 BLOWER WHEEL	—
1	EA	60740	01332401 10X8 BLOWER WHEEL	—
1	EA	60699	01333201 9X9 BLOWER WHEEL	—
1	EA	60702	01333602 9X7 BLOWER WHEEL	—
1	EA	69179	10G19 K3 CONTACTOR R43727-001	—
1	EA	60023	10G44 LB-29333BBP BLOWER WHEEL	—
1	EA	62622	10M63 LIMIT CONTROL	—
1	EA	60024	10M76 LIMIT CONTROL	—
1	EA	64800	10W32 100432-01 3/8IN (LIQUID) SERVICE VALVE	—
1	EA	64803	10W33 100432-02 3/4IN SERVICE VALVE	—
1	EA	60680	10W36 100335-25 55/7.5 MFD @ 440 V DUAL ROUND START CAPACITOR	—

## Parts (Continued from the Previous Page)

1	EA	61445	10W57 R45632-001 CIRCUIT BOARD	—
1	EA	60944	10W77 R100481-02 EXPANSION VALVE	—
1	EA	63993	10W78 R100060-13 22IN 4 BLADE 24 PITCH FAN	—
1	EA	61099	10W82 100484-11 .061 ORIFICE	—
1	EA	61098	10W83 100484-17 .068 ORIFICE KIT	—
1	EA	87962	10W85 100484-21 .072 RFC PISTON KIT	—
1	EA	61110	10W86 100484-28 .080 R39332B080 RFC PISTON KIT	—
1	EA	61111	10W87 100484-32 .084 ORIFICE KIT R39332B084	—
1	EA	87963	10W89 100484-37 .090 RFC PISTON KIT	—
1	EA	63239	10W93 100484-04 .051 RFC PISTON KIT	—
1	EA	61095	10W95 R39332B055 .055 ORIFICE	—
1	EA	61107	10W99 100484-15 .065 RFC PISTON KIT	—
1	EA	62230	11M40 R02379A006 FAN & LIMIT CONTROL	—
1	EA	87862	11W00 100484-16 .067 RFC PISTON KIT	—
1	EA	61102	11W01 100484-20 .071 R39332B071 RFC PISTON KIT	—
1	EA	61108	11W02 100484-22 .073 R39332B073 RFC PISTON KIT	—
1	EA	61101	11W04 100484-26 .078 ORIFICE KIT	—
1	EA	87964	11W07 100484-31 .083 RFC PISTON KIT	—
1	EA	64886	11W10 100484-38 .091 RFC PISTON KIT	—
1	EA	61104	11W11 100484-40 .093 RFC PISTON KIT	—
1	EA	61088	11W48 R45827-001 TRANSFORMER	—
1	EA	60635	11W84 R100214-01 (3CU) FILTER DRIER	—
1	EA	61379	11W93 100197-06 1PH CR24K7-PFV-130 COMPRESSOR	—
1	EA	61380	11W94 100197-07 1PH CR31K7-PFV-130 COMPRESSOR	—
1	EA	94559	12218 35MFD 370V RUN CAPACITOR ROUND	—
1	EA	94560	12721 40MFD 370V RUN CAP ROUND	—
1	EA	94592	12748 45MFD 440V RUN CAPACITOR ROUND	—
1	EA	94543	12905 5MFD 370V RUN CAP OVAL	—
1	EA	94545	12907 7.5MFD 370V RUN CAP OVAL	—
1	EA	94546	12908 10MFD 370V RUN CAP OVAL	—
1	EA	94548	12910 15MFD 370V RUN CAP OVAL	—
1	EA	94553	12915 25MFD 370V RUN CAP OVAL	—
1	EA	60026	12M55 LB62533CC BLOWER ASSEMBLY	—
1	EA	87942	12W53 R20293411 (HIGH FIRE) PRESSURE SWITCH	—
1	EA	63315	12W64 R20556101 IGNITION FAN CONTROL BOARD	—
1	EA	60028	13H28 TRANSFORMER	—
1	EA	60048	13H36 1/4HP 1PH 208/230V 825RPM CONDENSER FAN MOTOR	—
1	EA	60049	13H39 3/4HP 208/230V 1PH 1075 RPM BLOWER MOTOR	—
1	EA	63019	13L09 R42725-004 COMPRESSOR PLUG	—
1	EA	87927	13P93 HN L4064B2210 11-1/2 FAN & LIMIT CONTROL	—
1	EA	60945	13W51 R100481-03 3T (R22) EXPANSION VALVE	—
1	EA	60681	13W87 100335-34 50/7.5 @ 440V ROUND START CAPACITOR	—
1	EA	94499	14005 USA 5MFD 370V RUN CAPACITOR OVAL	—
1	EA	94500	14007 USA 7.5MFD 370V RUN CAPACITOR OVAL	—
1	EA	94501	14008 USA 10MFD 370V RUN CAPACITOR OVAL	—
1	EA	94502	14009 USA 12.5MFD 370V RUN CAPACITOR OVAL	—
1	EA	94503	14010 USA 15MFD 370V RUN CAPACITOR OVAL	—
1	EA	60050	14K10 BLOWER MOTOR	—
1	EA	60051	14K12 3HP 3PH 200/230/460V BLOWER MOTOR	—
1	EA	60052	14K14 BLOWER MOTOR	—
1	EA	67530	14K58 AV178TT-043-A4 COMPRESSOR R38867B004	—
1	EA	60053	14K60 5T Y TEC COMPRESSOR	—
1	EA	67410	14K90 1PH R35125C006 AWC5517EXD COMPRESSOR	—
1	EA	60054	14K92 TEMPERATURE SENSOR	—
1	EA	67458	14L33 R40154B008 WHITE LIMIT SWITCH	—
1	EA	60055	15M20 PRESSURE SWITCH	—
1	EA	64197	15M35 R100213-02 COMPRESSOR PLUG	—
1	EA	60058	15M42 MANUAL RESET SWITCH	—
1	EA	60060	15M43 MANUAL RESET SWITCH	—
1	EA	60061	15M44 MANUAL RESET SWITCH	—
1	EA	60642	15M47 208/230V 1PH CR34K6-PFV-830 COMPRESSOR	—
1	EA	60372	15M62 R41579-029 208/230V 1PH ZR24K3-PFV-130 COMPRESSOR	—
1	EA	60284	15M64 2.5T 208/230V 1PH ZR30K3-PFV-130 COMPRESSOR	—
1	EA	60912	15M79 4T COMPRESSOR	—
1	EA	67487	15M84 1PH R40478-006 ZR57K3-PFV-130 COMPRESSOR	—
1	EA	60377	15M88 R20390666 208/230V 1PH ZR61K3-PFV-130 COMPRESSOR	—
1	EA	60908	15W10 R100040-07 3T (R410A) COPE COMPRESSOR	—
1	EA	60904	15W21 R100052-10 2.5T 230V COPE COMPRESSOR	—
1	EA	60921	15W25 100052-15 ZR54KA-TF5 4.5T 230V Y COPE COMPRESSOR	—
1	EA	60645	15W56 PRESSURE SWITCH	—
1	EA	62623	15W75 10X10 BD LB-29333BDA BLOWER WHEEL	—
1	EA	62624	15W76 10X10 DD LB-29333BDB BLOWER WHEEL	—
1	EA	62626	15W77 11X10 BD LB-29333BDC BLOWER WHEEL	—

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1	EA	62637	15W85 LB-112079B HEAT EXCHANGER	—
1	EA	62639	15W86 LB-112079A HEAT EXCHANGER	—
1	EA	86605	16596 LB-29333BM WHEEL	—
1	EA	60145	16W84 11 X 8 LB-29333BDD BLOWER WHEEL	—
1	EA	65314	17W09 100121-29 208/230V 1PH ZR26K3-PFV-130 COMPRESSOR	—
1	EA	62198	17W56 LB-111888A KIT FURNACE TRANSFORMER	—
1	EA	61117	17W82 LB-91097C R42451-002 IGNITION CONTROL KIT	—
1	EA	60065	18L89 PRESSURE SWITCH	—
1	EA	62640	18M65 GAS VALVE	—
1	EA	60016	19M54 (LF/LD24) 065310400 IGNITION CONTROL REPLACEMENT KIT	—
1	EA	61091	19W04 LB-112090B 1 SPD 230V COMBUSTION BLOWER	—
1	EA	61697	19W88 100972-01 40VA 120/24 TRANSFORMER	—
1	EA	66710	19W94 LB-84495B IGNITION CONVERSION KIT	—
1	EA	87929	20054001 FPA INDUCER BLOWER	—
1	EA	67665	20J90 IGNITOR ELECTRODE	—
1	EA	67666	20J91 ELECTRODE SENSOR-FLAME	—
1	EA	87878	20W14 100060-19 FAN ASSEMBLY	—
1	EA	62644	20W27 100792-01 1/2 HP 1PH 208/230V MOTOR	—
1	EA	63150	20W29 3/4HP 1PH 208/203V MOTOR 100792-03	—
1	EA	63273	20W33 100811-01 ROLLOUT SWITCH	—
1	EA	62646	20W36 100847-04 LIMIT CONTROL	—
1	EA	62663	20W37 100847-06 LIMIT CONTROL	—
1	EA	86606	21708 LB-29333BJ WHEEL	—
1	EA	86629	21709 LB-29333BH WHEEL	—
1	EA	61543	21J94 R40162B001 FLUE TRAP BOOT	—
1	EA	86545	21L90 100648-02 1/5HP 115V BLOWER MOTOR 51W87	—
1	EA	60630	21W10 R100060-11 26IN 4BLADE 22PITCH FAN	—
1	EA	64579	21W14 101029-01 IGNITION CONTROL	—
1	EA	67801	21W96 T2481 R36604B001 FAN & LIMIT CONTROL	—
1	EA	60874	22W04 R07489B001 BLOWER RELAY	—
1	EA	64066	22W71 100432-03 7/8IN SERVICE VALVE	—
1	EA	60684	22W78 R100600-01 5 @ 370 CAPACITOR	—
1	EA	60687	22W79 7.5 @ 370 R100600-02 CAPACITOR	—
1	EA	60690	22W80 R100600-03 10 @ 370 CAPACITOR	—
1	EA	67566	23G39 1-1/2HP 3PH BLOWER MOTOR	—
1	EA	67568	23G81 INDUCER DRAFT BLOWER	—
1	EA	67569	23G83 24IN FAN	—
1	EA	60094	23L45 W111204014 IGNITION LEAD	—
1	EA	61911	23L53 65312200 CONTROL CIRCUIT BOARD	—
1	EA	60097	23M32 LB-95941 WIRING HARNESS	—
1	EA	60616	23W26 R100087-02 25PSI +/-5 AUTO RESET LOW PRESSURE SWITCH	—
1	EA	63209	23W38 2.5T P 101086-01 COMPRESSOR	—
1	EA	60903	23W91 R100121-18 ZR32K3-TF5-130 2.5T 230V COMPRESSOR	—
1	EA	60909	23W95 R100052-19 3.5T COPE COMPRESSOR	—
1	EA	62700	24G21 5HP 3PH 200/230/460V MOTOR	—
1	EA	67388	24H77 LOW AMBIENT KIT F/SCU13	—
1	EA	87900	24W95 LB-113219A CAI BLOWER REPL KIT	—
1	EA	67571	25G22 1/2HP 1PH 208/230V FAN MOTOR	—
1	EA	86536	25M60 (210) LIMIT CONTROL	—
1	EA	60917	25M80 4T COPE COMPRESSOR	—
1	EA	67379	25M84 R42811-008 208/230V 3PH ZR57KC-TF5-130 COMPRESSOR	—
1	EA	62703	25W57 100035-04 IGNITION WIRE	—
1	EA	87879	25W66 1/4HP FAN MOTOR 100640-02	—
1	EA	87874	25W67 100654-01 FAN ASSEMBLY	—
1	EA	60399	25W69 100684-03 (10M06) PRESSURE SWITCH	—
1	EA	67452	26L61 R40154B001 VIOLET LIMIT SWITCH	—
1	EA	86537	26W38 10463-04 40 MFD @ 370V ROUND CAPACITOR	—
1	EA	67668	27K58 1/20HP 1PH 115V 65313400 FAN MOTOR	—
1	EA	61376	27K60 10IN 65256400 FAN BLADE	—
1	EA	67669	27K61 65256500 INDUCER DRAFT BLOWER	—
1	EA	66980	27K79 65257300 LIMIT CONTROL	—
1	EA	64238	27W16 100040-03 ZP24K5E-PFV-130 COMPRESSOR	—
1	EA	61243	27W86 100197-02 1T 1P CR14K7-PFV COPELAND COMPRESSOR	—
1	EA	61245	27W87 100197-04 208/230V 1PH CR19K7-PFV-130 COMPRESSOR	—
1	EA	86538	28F01 3/4HP 1PH 115V MOTOR	—
1	EA	67573	28G36 ELECTRODE SENSOR	—
1	EA	67577	28G66 INDUCE DRAFT BLOWER	—
1	EA	67578	28G87 1/3HP 1PH 208/230V FAN MOTOR	—
1	EA	66005	28M88 R47465-001 1/2HP 120V 1PH MOTOR	—
1	EA	65883	28M89 R47462-001 1/3HP 115V 1PH MOTOR	—
1	EA	63804	28M95 20430701 GAS/IGNITION CONTROL SMART VALVE II (RS45390-002)	—
1	EA	87917	28M97 20467102 FLAME SENSOR	—
1	EA	87883	28W85 ZP51K5E-TF5 4.5T Y COMPRESSOR 100040-26	—



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1	EA	62706	28W90 100035-01 3/4IN IGNITION WIRE	—
1	EA	62709	28W91 100035-02 7/16IN IGNITION WIRE	—
1	EA	63274	28W92 100035-03 5/8IN IGNITION WIRE	—
1	EA	69903	29M29 4T Y ZR45KC-TF5-135 COMPRESSOR R42811-020	—
1	EA	63307	29M75 LIMIT CONTROL	—
1	EA	87863	29W09 100335-39 70+10 @ 440V ROUND CAPACITOR	—
1	EA	86539	29W85 11.5IN X 10IN 5/8 BORE BLOWER WHEEL LB-29333BDH	—
1	EA	67462	30M03 BLUE/WHITE LIMIT SWITCH R40154B014	—
1	EA	63242	30W24 100060-21 FAN ASSEMBLY	—
1	EA	61470	30W33 LB-90701C IGNITION CONTROL KIT	—
1	EA	61028	30W34 R38707B001 IGNITION CONTROL	—
1	EA	62712	31L45 7.5HP 3PH 230/460V MOTOR	—
1	EA	64065	31W72 3/4X3/4 BALL VALVE R100609-01	—
1	EA	64798	31W73 100609-02 7/8 X 7/8IN SERVICE VALVE	—
1	EA	63243	31W74 100609-03 7/8 X 1-1/8 SERVICE VALVE	—
1	EA	60655	32M93 100121-23 1PH ZR42K3-PFV-130 COMPRESSOR	—
1	EA	87864	32W18 101086-05 2T P (R22) COMPRESSOR	—
1	EA	63208	32W19 2T P 101086-06 COMPRESSOR	—
1	EA	87865	32W39 101086-04 4.5T P (R22) COMPRESSOR	—
1	EA	61315	32W40 100404-02 1PH ZR18K4-PFV-830 COMPRESSOR	—
1	EA	68664	33H36 R07408B003 MOTOR MOUNTING ARM	—
1	EA	68666	33H39 R38180C001 MOTOR MOUNTING BAND	—
1	EA	60806	33H41 12.5 MFD @ 370V ROUND RUN CAPACITOR RS39232D008	—
1	EA	65823	33H45 R47466-001 3/4HP 115V 1PH MOTOR	—
1	EA	60129	33H74 R01254A008 12X9 BLOWER WHEEL	—
1	EA	60964	33H78 R01851A007 BLUE LIMIT SWITCH	—
1	EA	63227	33M14 LB-101202G HEAT EXCHANGER	—
1	EA	87899	33W12 1/2HP VSP 240/60/1 MOTOR 101564-01	—
1	EA	87901	33W13 1HP 240/60/1 VAR SPD MOTOR	—
1	EA	86540	33W32 LB94724L COMBUSTION AIR BLOWER MOTOR	—
1	EA	61348	34H00 1/2HP SERVICE MOTOR	—
1	EA	61424	34W46 101501-01 3HP 200/230V 60 3PH MOTOR	—
1	EA	61336	34W52 100121-08 4T Y ZR47K3-TF5 COPE COMPRESSOR	—
1	EA	86640	34W65 652086600 1/8 HP 115/60/1 FAN MOTOR	—
1	EA	67419	35K59 R47464-001 1/3HP 1PH 1075RPM BLOWER MOTOR	—
1	EA	67807	35K70 R41917-002 COMBUSTION CHAMBER	—
1	EA	67808	35K71 R41924-002 COMBUSTION CHAMBER	—
1	EA	60792	36H72 R36634C002 TRANSFORMER RELAY	—
1	EA	67792	36K14 R01851A017 GREEN/WHITE LIMIT SWITCH	—
1	EA	60278	36K20 R47463-001 1/2HP BLOWER MOTOR	—
1	EA	86541	36M22 LB-29333BCW WHEEL	—
1	EA	60893	36W90 44935 PINK LIMIT CONTROL R46105-007	—
1	EA	63294	38113 P-8-7716 CONTACTOR	—
1	EA	62713	39L14 BLOWER SHAFT	—
1	EA	63275	39W65 101502-01 7.5HP 200-230/60/3 MOTOR	—
1	EA	60100	39W76 1010685-01 (M1-8) IMC REPLACEMENT KIT	—
1	EA	62199	40W01 50M72 R20394208 50/5 MFD @ 370 RND DUAL CAPACITOR R38514D018	—
1	EA	87866	40W58 101086-02 3T P (R22) COMPRESSOR	—
1	EA	87867	40W59 101086-03 3.5T P (R22) COMPRESSOR	—
1	EA	60115	41G52 LB-21259 KEY	—
1	EA	60134	41L28 LB-66258 BLR WHEEL KEY	—
1	EA	63179	41W14 100335-42 35/7.5 @ 440V ROUND CAPACITOR	—
1	EA	69173	41W15 45/5 MFD @ 370V CAPACITOR R38514D011 89M79	—
1	EA	65906	41W49 R47477-001 1/8HP FAN MOTOR	—
1	EA	61395	41W94 R101701-01 3T 1PH BRISTOL COMPRESSOR	—
1	EA	61396	41W95 R101701-02 3.5T 1PH BRISTOL COMPRESSOR	—
1	EA	61400	41W96 R101701-03 1PH BRISTOL COMPRESSOR	—
1	EA	86542	42J32 TRANSFORMER	—
1	EA	63245	42W41 100103-03 HIGH PRESSURE SWITCH	—
1	EA	87902	42W47 3/4HP 240/60/1 VAR SPD MOTOR 101564-03	—
1	EA	64055	42W58 R100145-06 REVERSING VALVE	—
1	EA	63818	42W59 100145-09 REVERSING VALVE	—
1	EA	62714	42W94 LB-74930 460/75VA TRANSFORMER KIT	—
1	EA	69207	43H89 K10 CONDENSER RELAY	—
1	EA	64137	43K30 65238200 INDUCED DRAFT BLOWER	—
1	EA	60656	43L41 R38864C007 1PH CR28K6-PFV-170 COMPRESSOR	—
1	EA	63983	43W49 97M49 1/5 HP 208/230V 1PH 1075RPM FAN MOTOR 100483-02 100483-21	—
1	EA	63253	43W86 101995-04 2.5T P R410A INTERLINK COMPRESSOR	—
1	EA	60136	44L48 FLAME SENSOR	—
1	EA	60137	44L58 ELECTRODE IGNITION LEAD	—
1	EA	60638	44W12 R100215-01 R22 BIFLOW DRIER 95M49	—
1	EA	64860	44W29 602107-01 2SP COMBUSTION AIR BLOWER	—
1	EA	60141	45C51 FAN	—

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1	EA	61702	45F08 T6-1469 COMPRESSOR LOW AMBIENT CUT-OFF	—
1	EA	67796	45H58 05640B013 OIL BROWN NOZZLE	—
1	EA	60148	45K25 GASKET	—
1	EA	86543	45M36 LB-29333BCY WHEEL	—
1	EA	69209	46G18 R43864-001 WIRE ELECTRODE	—
1	EA	62718	46G18 W095304020 RED IGNITION LEAD	—
1	EA	60149	46G41 LB-56689CB BRACKET	—
1	EA	68665	46K05 R07408B008 MOTOR MOUNTING ARM	—
1	EA	60965	46K06 R01851A021 GRAY LIMIT SWITCH	—
1	EA	60970	46K07 R01851A027 GREEN LIMIT SWITCH	—
1	EA	68660	46K08 WHITE AUXILLARY LIMIT SWITCH R01851A034	—
1	EA	61316	46K11 FAN BLADE R39294B001	—
1	EA	67589	46K12 18IN FAN BLADE R41141-001	—
1	EA	60542	46K14 R47476-001 .9HP 208/230V 1PH 1100RPM BLOWER MOTOR	—
1	EA	63033	46K18 R39271B001 BURNER	—
1	EA	67446	46K65 06429D355 ABLOW-1 BLOWER CONTROL	—
1	EA	61312	46K67 R44614-002 DEFROST CONTROL	—
1	EA	67456	46K69 RED LIMIT SWITCH R40154B006	—
1	EA	67457	46K70 R40154B007 PINK LIMIT SWITCH	—
1	EA	67459	46K71 GOLD LIMIT SWITCH R40154B009	—
1	EA	67460	46K72 R40154B012 YELLOW/WHITE LIMIT CONTROL	—
1	EA	67463	46K73 R40154B015 RED/WHITE LIMIT SWITCH	—
1	EA	65014	46K88 R47429-001 1/4HP 208/230V 1075RPM FAN MOTOR	—
1	EA	61430	46K91 R40622-001 HEAT EXCHANGER	—
1	EA	61431	46K92 R40622-002 HEAT EXCHANGER	—
1	EA	61432	46K93 R40622-003 4 CELL HEAT EXCHANGER	—
1	EA	61433	46K94 R40622-004 5 CELL HEAT EXCHANGER	—
1	EA	61434	46K95 R40622-005 HEAT EXCHANGER	—
1	EA	61020	46W19 100463-06 20 MFD @ 370V CAPACITOR 58W04	—
1	EA	67594	47K02 R41520-002 ELECTRODE LEAD	—
1	EA	67380	47K04 R39718B002 MANIFOLD	—
1	EA	69877	47K09 R39030B019 #42 NATURAL GAS ORIFICE	—
1	EA	87882	47K14 TIME DELAY RELAY R40715-001	—
1	EA	67583	47K15 R41099-001 SOLENOID	—
1	EA	61112	47K17 .30 YELLOW PRESSURE SWITCH R45695-001	—
1	EA	60609	47K18 R37520B005 GREEN ROLLOUT SWITCH	—
1	EA	60503	47K19 R36327B006 THERMOSTAT SWITCH	—
1	EA	63479	47K20 R39370B001 TRANSFORMER	—
1	EA	60496	47K22 R44478-002 EXPANSION VALVE	—
1	EA	67593	47K24 R41516-001 GAS VALVE	—
1	EA	67400	47K28 BLOWER WHEEL R02592A003	—
1	EA	60923	47K30 R02592A023 BLOWER WHEEL	—
1	EA	60977	47K31 R02592A024 BLOWER WHEEL	—
1	EA	67779	47K39 R40424-001 GASKET FLUE COVER	—
1	EA	67780	47K40 R40424-002 GASKET FLUE COVER	—
1	EA	67781	47K41 R40424-003 GASKET FLUE COVER	—
1	EA	68678	47K44 RS41117-007 ASSEMBLY BLOWER HOUSING	—
1	EA	86544	47W64 210F LIMIT CONTROL	—
1	EA	86643	47W86 100483-23 1/10 HP 208/203/60/1 FAN MOTOR	—
1	EA	64982	48K98 LB-90089A BCC3 REPLACEMENT CONTROL BOARD	—
1	EA	60151	49K08 SENSOR	—
1	EA	63276	49L86 LIMIT CONTROL	—
1	EA	62725	49M84 FLAME SENSOR	—
1	EA	62751	49M85 IGNITOR	—
1	EA	61402	49W16 R101907-03 1.5T 1PH BRISTOL COMPRESSOR	—
1	EA	61409	49W17 R101907-04 2T 1P BRISTOL COMPRESSOR	—
1	EA	61411	49W18 R101907-05 2.5T 1PH BRISTOL COMPRESSOR	—
1	EA	61419	49W19 R101946-01 3T 1PH BRISTOL COMPRESSOR	—
1	EA	61420	49W20 R101946-02 3.5T 1PH BRISTOL COMPRESSOR	—
1	EA	61422	49W21 R101946-03 3.5T 1PH BRISTOL COMPRESSOR	—
1	EA	64139	49W66 102186-01 IGNITION CONTROL	—
1	EA	63985	49W86 97M51 100483-05 1/4HP 208/230 1PH 825RPM COND FAN MOTOR	—
1	EA	64431	51W15 102317-01 INTERLOCK SWITCH	—
1	EA	86635	52M46 R20470502 CONTROL BOARD	—
1	EA	66982	53K80 LB-90157A FAN TIMER	—
1	EA	63268	53W14 101995-08 1.5T P R410A INTERLINK COMPRESSOR	—
1	EA	87926	55W96 R43211-001 TRANSFORMER	—
1	EA	62795	56L68 RELAY	—
1	EA	63014	56M97 25/5 MFD @ 370V DUAL CAPACITOR R38514D002	—
1	EA	61039	56W19 R47582-001 IGNITION CONTROL	—
1	EA	60887	56W20 R46105-001 VIOLET LIMIT CONTROL	—
1	EA	60990	56W21 R46105-002 ORANGE LIMIT CONTROL	—
1	EA	60991	56W22 R46105-003 YELLOW LIMIT CONTROL	—

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1	EA	61057	56W23 R46105-008 WHITE LIMIT CONTROL	—
1	EA	60896	56W24 R46105-009 GOLD LIMIT CONTROL	—
1	EA	65365	56W25 R46105-012 YELLOW/WHITE LIMIT CONTROL	—
1	EA	61058	56W26 R46105-016 PINK/WHT LIMIT CONTROL	—
1	EA	60900	56W27 R46105-023 BLUE/GREEN LIMIT CONTROL	—
1	EA	61038	56W53 R44391-004 .125-23IN SILICONE TUBE	—
1	EA	60859	56W54 R06428D399 2 BURNER VEST PANEL CORBOL KIT	—
1	EA	60860	56W55 R06428D400 3 BURNER VEST PANEL CORBOL KIT	—
1	EA	60873	56W56 4 BURNER PANEL CORBOL KIT R06428D401	—
1	EA	60875	56W57 R06428D402 5 BURNER VEST PANEL CORBOL KIT	—
1	EA	60876	56W58 R06428D403 6 BURNER VEST PANEL CORBOL KIT	—
1	EA	60392	56W61 R100997-02 HOT SURFACE IGNITER	—
1	EA	67514	56W63 R37520B014 400 GREEN ROLLOUT FLAME SWITCH	—
1	EA	61875	56W67 R47467-001 3/4HP MOTOR	—
1	EA	63035	56W68 R44431-001 COMBUSTION BLOWER	—
1	EA	60641	57W15 R37648B002 3.50 ROUND SCREEN	—
1	EA	60891	57W37 R46105-004 GREEN LIMIT CONTROL	—
1	EA	60737	57W38 R46105-006 RED LIMIT CONTROL	—
1	EA	60342	57W63 SECONDARY HEAT EXCHANGER COIL R40093B001	—
1	EA	61559	57W66 R45140-001 PLASTIC ELBOW	—
1	EA	66060	57W68 R39030B009 #44 ORIFICE	—
1	EA	61034	57W75 R37520B013 250 PINK ROLLOUT SWITCH	—
1	EA	60884	57W76 R37520B018 185 PURPLE ROLLOUT SWITCH	—
1	EA	60983	57W78 R45695-003 .60 BROWN PRESSURE SWITCH	—
1	EA	60942	57W79 R45695-004 .70 GREEN PRESSURE SWITCH	—
1	EA	60935	57W82 R45696-002 .70 ORANGE PRESSURE SWITCH	—
1	EA	60901	57W83 R47865-001 .10 ORANGE PRESSURE SWITCH	—
1	EA	61545	57W84 R40654-001 2 CELL HEAT EXCHANGER	—
1	EA	61546	57W85 R40654-002 3 CELL HEAT EXCHANGER	—
1	EA	61547	57W86 R40654-003 4 CELL HEAT EXCHANGER	—
1	EA	61548	57W87 R40654-004 5 CELL HEAT EXCHANGER	—
1	EA	61062	57W91 1.20 BLUE BLUE ORIFICE R40086B004	—
1	EA	66065	57W93 R40086B007 .72 GREEN ORIFICE	—
1	EA	60985	57W95 R36733B004 I.D. BLOWER GASKET	—
1	EA	67401	58W00 R47468-001 .90 EMERSON MOTOR	—
1	EA	63440	58W01 R45037-001 INDUCED DRAFT BLOWER	—
1	EA	61561	58W05 R45035-001 BOOT TRAP W/PORT	—
1	EA	63878	58W06 R40095B001 PLASTIC HEADER BOX	—
1	EA	65896	58W08 R45665-001 HEADER BOX	—
1	EA	67812	58W12 R42381-002 HEADER GASKET	—
1	EA	67813	58W13 R42381-003 HEADER BOX GASKET	—
1	EA	61562	58W14 R42381-004 HEADER BOX GASKET	—
1	EA	64899	59M03 LB-106783A FLUE TRANSITION REPLACEMENT KIT	—
1	EA	86639	59W74 R101432-17 .80 PRESSURE SWITCH	—
1	EA	61078	59W75 .96 CARMEL ORIFICE R40086B012	—
1	EA	61087	59W76 .77 TAN ORIFICE R40086B013	—
12	EA	95858	60765804 1/2 IN HUB	—
1	EA	67774	60J59 1/2IN NATURAL GAS VALVE	—
1	EA	86546	60L21 100649-01 1/3HP 115V BLOWER MOTOR	—
1	EA	86547	60L22 100650-01 1/2HP 115V BLOWER MOTOR	—
1	EA	69837	60L23 R40405-008 .50 RED PRESSURE SWITCH	—
1	EA	63277	60M12 CONTACTOR	—
1	EA	63203	60M28 R46256-001 BLOWER CONTROL	—
1	EA	61373	60M32 R46994-001 IGNITION CONTROL	—
1	EA	62797	60M34 BEARING	—
1	EA	62807	60M58 (195) LIMIT CONTROL	—
1	EA	63278	60M59 (160) LIMIT CONTROL	—
1	EA	62820	60M60 IGNITION LEAD	—
1	EA	62832	60M61 ROLLOUT SWITCH	—
1	EA	67415	63K70 AW504ET-088-A4 COMPRESSOR R35125C007	—
1	EA	67416	63K71 AW507ET-088-A4 COMPRESSOR R35125C008	—
1	EA	87925	63W16 R00419B175 GRAY AEROSOL DUCANE PAINT	—
1	EA	63986	63W25 98M36 1/6HP 208/230V 1PH 825RPM FAN MOTOR 100483-11	—
1	EA	86548	63W58 102829-01 MODULAR VARIABLE SPEED IGNITION CONTROL	—
1	EA	60282	65W49 .60 RED PRESSURE SWITCH R100684-02	—
1	EA	67721	66020 1IN P-5-84 BEARING BORE	—
1	EA	60183	67K65 RELAY	—
1	EA	86642	68J24 1/3HP 1PH 208/230V MOTOR	—
1	EA	62833	68J37 CONTACTOR	—
1	EA	60754	68J65 AV177ET-024-A4 4T 1PH COMP R38867B001	—
1	EA	64173	68J69 AV196ET-047-A4 COMPRESSOR R38867B012	—
1	EA	67384	68J70 AV196RT-055-A4 COMPRESSOR R38867B013	—
1	EA	67425	68J71 5T G AV190TT-045-A4 COMPRESSOR TEC R38867B007	—

Parts (Continued from the Previous Page)

1	EA	63861	68W80 SINGLE STAGE NIGHT SERVICE KIT	—
1	EA	63872	68W81 TWO STAGE NIGHT SERVICE KIT	—
1	EA	63873	68W82 MODULATING NIGHT SERVICE KIT	—
1	EA	67426	69H62 R39008C003 1PH RK147ET-021-A4 COMPRESSOR	—
1	EA	63720	69M33 COMBUSTION AIR BLOWER	—
1	EA	86549	69M38 135F LIMIT CONTROL	—
1	EA	86550	69M79 1HP 4SPD 115V 1PH 60HZ MOTOR	—
1	EA	86551	69W27 101910-07 1/16IN NATURAL ORIFICE	—
1	EA	86552	69W36 102135-03 150F LIMIT CONTROL	—
1	EA	86553	69W37 102135-04 165F LIMIT CONTROL	—
1	EA	86554	69W38 102135-05 170F LIMIT CONTROL	—
1	EA	86555	69W39 102135-06 190F LIMIT CONTROL	—
1	EA	86556	69W40 102135-07 205F LIMIT CONTROL	—
1	EA	86557	69W41 102135-08 215F LIMIT CONTROL	—
1	EA	86558	69W42 102135-09 220F LIMIT CONTROL	—
1	EA	86559	69W43 LB-74940B FLAME SENSOR KIT	—
1	EA	86560	69W44 102688-01 2 STAGE NATURAL GAS VALVE	—
1	EA	86561	69W49 102703-01 11IN X 9IN X 1/2IN BLOWER WHEEL	—
1	EA	86562	69W50 102703-02 11IN X 11IN X 1/2IN BLOWER WHEEL	—
1	EA	86563	69W52 102712-01 10IN X 9IN X 1/2IN BLOWER WHEEL	—
1	EA	86624	69W55 102737-03 20/.55 2 STAGE PRESSURE SWITCH	—
1	EA	86564	69W56 102737-04 (25/.60) 2 STAGE PRESSURE SWITCH	—
1	EA	86565	69W57 102737-05 (30/.68) 2 STAGE PRESSURE SWITCH	—
1	EA	86566	69W58 102737-06 (30/.75) 2 STAGE PRESSURE SWITCH	—
1	EA	86567	69W94 101910-05 #61 LP ORIFICE	—
1	EA	86641	69W97 100483-30 1/3HP 208-230/60/1 FAN MOTOR	—
1	EA	64131	70L53 20256701 GAS/IGNITION CONTROL SERVICE VALVE R44479-001	—
1	EA	87919	70L60 IND DRAFT BLOWER	—
1	EA	87832	70W06 605731-01 HEAT EXCHANGER	—
1	EA	87833	70W07 605731-02 HEAT EXCHANGER	—
1	EA	87834	70W08 605731-03 HEAT EXCHANGER	—
1	EA	87835	70W09 605731-04 HEAT EXCHANGER	—
1	EA	87837	70W11 605731-06 HEAT EXCHANGER	—
1	EA	87838	70W12 605731-07 HEAT EXCHANGER	—
1	EA	87839	70W14 605731-09 HEAT EXCHANGER	—
1	EA	86568	70W16 LB-112237B IGNITER	—
1	EA	86607	70W27 LB-90745AR ECM MODULE KIT	—
1	EA	86608	70W28 LB-90745AS ECM MODULE KIT	—
1	EA	86609	70W29 LB-90745AT ECM MODULE KIT	—
1	EA	86610	70W30 LB-90745AW ECM MODULE KIT	—
1	EA	86611	70W31 LB-90745AX ECM MODULE KIT	—
1	EA	86612	70W32 LB-90745AY ECM MODULE KIT	—
1	EA	86613	70W33 LB-90745BA ECM MODULE KIT	—
1	EA	86614	70W34 LB-90745BB ECM MODULE KIT	—
1	EA	86615	70W36 LB-90745BD ECM MODULE KIT	—
1	EA	86569	70W38 LB-94724P COMBUSTION AIR BLOWER MOTOR	—
1	EA	86570	70W39 LB-94726AB BLOWER HOUSING	—
1	EA	86571	70W88 605154-02 (A96) LPG TO NATURAL CONVERSION KIT	—
1	EA	87920	71L03 R20004601 INSHOT BURNER	—
1	EA	62940	71M28 LB-106199A MCC1-1 CIRCUIT BOARD KIT	—
1	EA	86630	71W17 605099-04 BAG ASSEMBLY	—
1	EA	86572	71W41 102857-01 135F LIMIT CONTROL	—
1	EA	86573	71W43 102857-03 140F LIMIT CONTROL	—
1	EA	86574	71W44 102857-04 145F LIMIT CONTROL	—
1	EA	86575	71W48 102906-02 .036 LP ORIFICE	—
1	EA	86621	71W49 102907-01 (210F) LIMIT CONTROL	—
1	EA	86576	71W50 102908-01 .20/1.00 2 STAGE PRESSURE SWITCH	—
1	EA	87840	71W72 605996-05 HEAT EXCHANGER	—
1	EA	87841	71W73 605996-06 HEAT EXCHANGER	—
1	EA	87842	71W74 605996-07 HEAT EXCHANGER	—
1	EA	87843	71W75 605996-08 HEAT EXCHANGER	—
1	EA	87844	71W79 605996-12 HEAT EXCHANGER	—
1	EA	87845	71W80 605996-13 HEAT EXCHANGER	—
1	EA	87846	71W81 605996-14 HEAT EXCHANGER	—
1	EA	86577	71W96 102688-02 2 STAGE LP GAS VALVE	—
1	EA	87953	72L44 3.0T P (H) COMPRESSOR	—
1	EA	86578	72W34 LB-115291E NATURAL GAS VALVE ASSEMBLY 72W57	—
1	EA	86579	72W35 LB-115291F LP GAS VALVE ASSEMBLY 72W58	—
1	EA	86646	72W97 605996-15 HEAT EXCHANGER	—
1	EA	86647	72W98 605996-16 HEAT EXCHANGER	—
1	EA	86580	72W99 606006-01 2.3 ECM 1/2HP MOTOR ONLY	—
1	EA	62835	73M11 LB-107331B HEAT EXCHANGER	—
1	EA	86581	73M85 LB-108026A MOTOR MOUNT KIT	—

## Parts (Continued from the Previous Page)

1	EA	86582	73W00 606006-02 2.3 ECM 1HP MOTOR ONLY	—
1	EA	86583	73W01 606007-01 3.0 1/2 HP ECM MOTOR ONLY	—
1	EA	86584	73W02 606007-02 3.0 3/4 HP ECM MOTOR ONLY	—
1	EA	86619	73W03 606007-03 3.0 1HP ECM MOTOR ONLY	—
1	EA	86617	73W05 606008-02 3.0 3/4HP ECM MODULE ONLY	—
1	EA	86618	73W06 606008-03 3.0 1HP ECM MODULE ONLY	—
1	EA	86586	73W09 LB-947247T COMBUSTION AIR S/A BLOWER	—
1	EA	86587	73W17 102837-01 NATURAL GAS VALVE	—
1	EA	86588	73W18 102857-05 (145F) LIMIT CONTROL	—
1	EA	86589	73W19 102857-06 (155F) LIMIT CONTROL	—
1	EA	86590	73W20 102857-07 (175F) LIMIT CONTROL	—
1	EA	87857	73W34 102737-08 (.62/.35) 2 STAGE PRESSURE SWITCH	—
1	EA	87858	73W35 102737-09 (.55/.25) 2 STAGE PRESSURE SWITCH	—
1	EA	86592	73W44 LB-94724Y COMBUSTION AIR S/A BLOWER	—
1	EA	60343	73W76 R100684-08 .50 WHITE PRESSURE SWITCH R45694-001	—
1	EA	67420	74H12 AVB5549EXN COMPRESSOR R38867B002	—
1	EA	61536	74K76 #54 LP LP ORIFICE R39030B005	—
1	EA	67588	74K77 R42250-001 INDUCE DRAFT BLOWER	—
1	EA	86593	74W12 101070-01 1/5HP 115V BLOWER MOTOR	—
1	EA	86625	74W36 606569-01 PRESSURE SWITCH KIT	—
1	EA	86594	74W55 LB-94724AA COMBUSTION AIR S/A BLOWER	—
1	EA	86595	74W56 LB-94724AB COMBUSTION AIR S/A BLOWER	—
1	EA	87847	74W57 605731-10 HEAT EXCHANGER	—
1	EA	87848	74W58 605731-11 HEAT EXCHANGER	—
1	EA	87849	74W59 605731-12 HEAT EXCHANGER	—
1	EA	86597	74W62 103018-06 .75 PRESSURE SWITCH	—
1	EA	86620	74W63 103018-07 .80F PRESSURE SWITCH	—
1	EA	86598	74W75 102135-10 LIMIT CONTROL	—
1	EA	86599	74W77 102135-12 LIMIT CONTROL	—
1	EA	86600	74W89 103018-03 .55 PRESSURE SWITCH	—
1	EA	86601	75W01 103096-01 BLOWER WHEEL	—
1	EA	86602	75W15 102857-08 165F LIMIT CONTROL	—
1	EA	86648	75W25 605996-18 HEAT EXCHANGER	—
1	EA	86649	75W26 605996-19 HEAT EXCHANGER	—
1	EA	86670	75W27 605996-20 HEAT EXCHANGER	—
1	EA	86671	75W28 605996-21 HEAT EXCHANGER	—
1	EA	86672	75W30 605996-23 HEAT EXCHANGER	—
1	EA	86673	75W31 605996-24 HEAT EXCHANGER	—
1	EA	86674	75W32 605996-25 HEAT EXCHANGER	—
1	EA	87877	75W43 103048-01 THERMAL SWITCH	—
1	EA	67527	76K01 BLOWER WHEEL R02592A006	—
1	EA	69174	76K02 60/5 MFD @ 370V RUN CAPACITOR R38514D016	—
1	EA	87904	77W04 2 STG NAT 103181-01 GAS VALVE	—
1	EA	87850	77W23 605996-35 HEAT EXCHANGER	—
1	EA	87851	77W24 605996-36 HEAT EXCHANGER	—
1	EA	87852	77W25 605996-37 HEAT EXCHANGER	—
1	EA	87853	77W26 605996-38 HEAT EXCHANGER	—
1	EA	87854	77W27 605996-39 HEAT EXCHANGER	—
1	EA	87855	77W28 605996-40 HEAT EXCHANGER	—
1	EA	87856	77W29 605996-41 HEAT EXCHANGER	—
1	EA	86634	77W30 607010-01 DRAIN TRAP KIT	—
1	EA	87868	77W34 102831-05 7/8 X 7/8 SERVICE VALVE	—
1	EA	87869	77W35 102831-06 7/8 X 1-1/8 SERVICE VALVE	—
1	EA	64123	78K59 HD1-2 LB-91256A CONTROL	—
1	EA	60398	78L02 R47803-001 REVERSING VALVE	—
1	EA	60279	78L03 REVERSING VALVE R47805-001	—
1	EA	61544	78L04 R47806-001 REV VALVE	—
1	EA	60495	78L19 R44478-001 EXPANSION VALVE	—
1	EA	60191	78L30 LIMIT CONTROL	—
1	EA	60195	78L41 MOTOR MTG BRACKET	—
1	EA	67572	78L60 28G26 GAS VALVE	—
10	EA	86637	78W50 LB-110418B THUMB SCREW BAG ASSY	—
1	EA	68725	79J11 THERMOSTAT FREEZE-STAT	—
1	EA	60196	79J21 ELECTRODE IGNITER	—
1	EA	60213	79J22 SENSOR	—
1	EA	60215	79J75 EXPANSION VALVE	—
1	EA	60217	79J81 1/3HP 1PH 208/230V 1075RPM LEADLESS CONDENSER FAN MOTOR	—
1	EA	60437	79J82 1/3HP 460V 1PH 1075RPM LEADLESS CONDENSER FAN MOTOR	—
1	EA	60220	79J89 LIMIT CONTROL	—
1	EA	87860	79W59 2HP 208-230V MOTOR REPLACEMENT CONTROL ASSY	—
1	EA	87861	79W60 460V 2HP MOTOR REPLACEMENT CONTROL ASSY	—
1	EA	60261	80K09 ELECTRODE IGNITER	—
1	EA	67582	80K12 IGNITION CONTROL	—

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1	EA	61052	80K47 R38514D007 40/7.5 MFD @ 440V ROUND DUAL CAPACITOR	—
1	EA	87921	80M27 IGN/FAN CONTROL BOARD	—
1	EA	87922	80M29 IGNITOR	—
1	EA	87915	80M52 (D) INDUCER BLOWER	—
1	EA	86596	80W52 103247-04 .60 PRESSURE SWITCH 74W60	—
1	EA	86626	80W53 103247-05 .68 PRESSURE SWITCH 74W61	—
1	EA	87913	80W57 103247-09 .65 PRESSURE SWITCH 74W65	—
1	EA	87916	80W58 103247-10 .75 PRESSURE SWITCH	—
1	EA	87914	80W59 103245-01 .65 PRESSURE SWITCH	—
1	EA	86603	80W62 103245-04 .75 PRESSURE SWITCH 75W23	—
1	EA	86679	80W67 103245-09 .90 (0-4500) PRESSURE SWITCH 77W44	—
1	EA	87859	80W97 R10143-01 COMBUSTION AIR BLOWER	—
1	EA	60270	81L75 IMC C1-3 REPLACEMENT KIT CONTROL	—
1	EA	87875	81W04 101995-02 2T P (R410A) INTERLINK COMPRESSOR	—
1	EA	63262	81W05 101995-12 2T P R410A INTERLINK COMPRESSOR	—
1	EA	87876	81W06 101995-04 2.5T P (R410A) INTERLINK COMPRESSOR	—
1	EA	63263	81W07 101995-05 3T P R410A INTERLINK COMPRESSOR	—
1	EA	63261	81W08 101995-06 4T P R410A INTERLINK COMPRESSOR (52W11)	—
1	EA	63255	81W09 101995-07 4.5T P R410A INTERLINK COMPRESSOR (43W87)	—
1	EA	86623	81W11 103085-01 SINGLE STAGE BLOWER IGNITION CONTROL	—
1	EA	87888	81W45 LB-94724AC COMB AIR S/A BLOWER	—
1	EA	87918	82M73 R20017402 ROLLOUT SWITCH	—
1	EA	63026	83L71 R39050B001 ELECTRODE	—
1	EA	60271	83L75 LIMIT CONTROL	—
1	EA	64124	83L78 LIMIT CONTROL	—
1	EA	67464	83L91 R40154B016 PINK/WHITE LIMIT SWITCH	—
1	EA	64972	83M00 LB-109531A SURELIGHT REPLACEMENT KIT	—
1	EA	87887	83W12 2STG NAT GAS VALVE	—
1	EA	87954	83W76 100600-10 12.5 @ 370 CAPACITOR	—
1	EA	87886	83W89 607308-03 IGNITION CONTROL KIT	—
1	EA	68668	84K65 R42446-001 ELECTRODE	—
1	EA	87889	84W05 10327-01 P PRESSURE SWITCH	—
1	EA	87890	84W06 103271-02 PRESSURE SWITCH	—
1	EA	87891	84W07 LB-90745BE (VSP CTRL MODULE) MOTOR ASSY	—
1	EA	87892	84W08 LB-90745BF (VSP CTRL MODULE) MOTOR ASSY	—
1	EA	87893	84W09 LB-90745BG (VSP CTRL MOTOR) MOTOR ASSY	—
1	EA	87905	84W10 LB-90745BH (VSP CTRL MODULE) MOTOR ASSEMBLY	—
1	EA	87894	84W11 LB-90745BJ (VSP CTRL MODULE) MOTOR ASSY	—
1	EA	87895	84W12 LB-90745BK (VSP CTRL MODULE) MOTOR ASSY	—
1	EA	87906	84W13 LB-90745BL (VSP CTRL MODULE) MOTOR ASSEMBLY	—
1	EA	87896	84W14 LB-90745BM (VSP CTRL MODULE) MOTOR ASSY	—
1	EA	87897	84W15 LB-90745BN (VSP CTRL MODULE) MOTOR ASSY	—
1	EA	87898	84W16 LB-90745BP (VSP CTRL MODULE) MOTOR ASSY	—
1	EA	87907	84W17 LB-90745BR (VSP CTRL MODULE) MOTOR ASSEMBLY	—
1	EA	87908	84W18 LB-90745BS (VSP CTRL MODULE) MOTOR ASSEMBLY	—
1	EA	87909	84W50 605927-11 NIGHT SERVICE KIT A95UH/DF 95G2	—
1	EA	87884	84W64 .50/.90 PRESSURE SWITCH 103271-03	—
1	EA	87885	84W65 .45/.81 PRESSURE SWITCH 103271-04	—
1	EA	87910	84W85 806008-04 3.0 ECM 1/2HP MODULE ONLY	—
1	EA	87911	84W86 606008-05 3.0 ECM 3/4HP MODULE ONLY	—
1	EA	87912	84W87 606008-06 3.0 ECM 1HP MODULE ONLY	—
1	EA	87941	84W88 LB-101263B DEFROST CONTROL KIT	—
1	EA	60272	85L52 LB-29333BCT BLOWER WHEEL	—
1	EA	63286	85L53 LB-29333BCS WHEEL	—
1	EA	87880	85M50 FAN ASSEMBLY 100017-02	—
1	EA	64970	85M53 100034-01 LSOM 2 MODULE	—
1	EA	60146	86H46 R02592A013 BLOWER WHEEL	—
1	EA	60617	86M36 100087-01 HIGH PRESSURE SWITCH	—
1	EA	87923	87H90 LIMIT CONTROL	—
1	EA	87924	87H91 R20001103 LIMIT CONTROL	—
1	EA	86604	89J10 LB-29333BCG WHEEL	—
1	EA	63950	89M19 100052-01 1PH ZR16KA-PFV-130 COMPRESSOR	—
1	EA	63959	89M20 100052-02 208/230V 1PH ZR21KA-PFV-130 COMPRESSOR	—
1	EA	63960	89M21 100052-03 1PH ZR26KA-PFV-130 COMPRESSOR	—
1	EA	63961	89M22 100052-04 1PH ZR32KA-PFV-130 COMPRESSOR	—
1	EA	63962	89M23 100052-05 1PH ZR38KA-PFV-130 COMPRESSOR	—
1	EA	63963	89M24 100052-06 1PH ZR42KA-PFV-130 COMPRESSOR	—
1	EA	63964	89M25 100052-07 1PH ZR54KA-PFV-130 COMPRESSOR	—
1	EA	63015	89M70 100335-02 30/5MFD @ 370V ROUND START CAPACITOR R38514D003	—
1	EA	63994	89M71 100335-03 30/5 @ 440V ROUND START CAPACITOR	—
1	EA	63016	89M73 100335-05 35/5 MFD @ 370V ROUND START CAPACITOR R38514D004	—
1	EA	63996	89M74 100335-06 35/5 MFD @ 440V ROUND START CAPACITOR R38514D010	—
1	EA	60813	89M76 100335-08 40/5 @ 370V ROUND START CAPACITOR	—

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1	EA	63997	89M77 R100335-09 40/5MFD @ 440V ROUND START CAPACITOR	—
1	EA	60648	89M80 100335-12 45/5 MFD @ 440V ROUND START CAPACITOR	—
1	EA	61053	89M82 100335-14 45/7.5 MFD @ 440V ROUND START CAPACITOR R38514D008	—
1	EA	60817	89M83 R100335-15 45/10 @ 440 CAPACITOR	—
1	EA	63040	89M84 60/7.5 MFD@370V CAPACITOR R38514D013 100335-16	—
1	EA	60878	89M85 100335-17 60/7.5 @ 440V ROUND START CAPACITOR	—
1	EA	87870	89M86 103335-18 60+10 @ 370V ROUND CAPACITOR	—
1	EA	63998	89M87 100335-19 60/10 @ 440V ROUND START CAPACITOR	—
1	EA	87871	89M89 100335-21 50+10 @ 440V ROUND CAPACITOR	—
1	EA	63269	89M90 100335-22 70/10 @ 370 ROUND CAPACITOR	—
1	EA	63041	89M91 100335-24 80/7.5 @ 370V ROUND START CAPACITOR R38514D014	—
1	EA	63999	89M92 100335-26 80/10 @ 370V ROUND START CAPACITOR	—
1	EA	65308	89M93 100335-28 55/5 @ 370V ROUND START CAPACITOR R38514D020	—
1	EA	60879	89M94 100335-29 60/5 @ 440V ROUND START CAPACITOR	—
1	EA	63143	89M95 100335-30 80/5 @ 370V ROUND START CAPACITOR	—
1	EA	60902	89M96 100335-31 50/5 @ 440V ROUND START CAPACITOR	—
1	EA	64037	89M97 100335-32 55/10 MFD @ 440 CAPACITOR	—
1	EA	62883	90H83 T6-2092 FLAME SENSOR	—
1	EA	87955	90W66 1.5T P (A) ZR16K5-PFV-130 COPE COMPRESSOR	—
1	EA	87956	90W67 1.5T P (A) COPE COMPRESSOR ZR21K5-PFV-130	—
1	EA	87957	90W71 4T P (A) COPE COMPRESSOR ZR48K5-PFV-130	—
1	EA	87958	90W72 4.5T P (A) COPE COMPRESSOR ZR54K5-PFV-130	—
1	EA	60852	92M46 2T ZPS20K4E-130 COPE COMPRESSOR R100504-01	—
1	EA	60853	92M47 2-1/2T ZPS30K4E-130 COPE COMPRESSOR 100504-02	—
1	EA	60856	92M48 3-1/2T ZPS40K4E-130 COPE COMPRESSOR R100504-03	—
1	EA	60858	92M49 4-1/2T ZPS51K4E-130 COPE COMPRESSOR R100504-04	—
1	EA	87960	92W51 100483-33 1/6HP 208-230/60/1 FAN MOTOR	—
1	EA	62984	93M80 R100365-01 SNG STAGE GAS VALVE R47484-001 100365-01	—
1	EA	61241	93M81 100483-17 SINGLE STAGE GAS VALVE	—
1	EA	60639	95M50 100215-03 R410A BIFLOW DRIER	—
1	EA	60354	95M55 100438-01 1 POLE 25AMP SPST CONTACTOR	—
1	EA	64042	95M56 100438-02 1 POLE 35AMP SPST CONTACTOR	—
1	EA	60614	95M57 100438-03 25AMP 3 POLE CONTACTOR	—
1	EA	62836	97J71 PRESSURE SWITCH	—
10	EA	86638	97M37 LB-110418A HARDWARE KIT (PKG 10)	—
1	EA	63971	97M52 ZP16K5E-PFV COMPRESSOR R100040-01	—
1	EA	63973	97M53 ZP20K5E-PFV COMPRESSOR R100040-02	—
1	EA	63975	97M54 ZP25K5E-PFV COMPRESSOR R100040-04	—
1	EA	63976	97M55 ZP31K5E-PFV COMPRESSOR R100040-06	—
1	EA	63977	97M56 ZP36K5E-PFV 3T COPE COMPRESSOR R100040-08	—
1	EA	63978	97M57 ZP42K5E-PFV COMPRESSOR R100040-10	—
1	EA	63979	97M58 ZP54K5E-PFV COMPRESSOR R100040-12	—
1	EA	86645	97M60 100503-03 DEFROST THERMOSTAT	—
1	EA	63982	97M62 100483-01 1/3HP 208/230V 1PH CONDENSER FAN MOTOR	—
1	EA	62837	97M67 100060-16 FAN ASSEMBLY	—
1	EA	61106	97M74 100484-06 .053 RFC PISTON KIT	—
1	EA	87965	97M75 100484-08 .057 RFC PISTON KIT	—
1	EA	87966	97M76 100484-13 .063 RFC PISTON KIT	—
1	EA	61103	97M77 100484-23 .074 R39332B074 RFC PISTON KIT	—
1	EA	61109	97M78 100484-24 .076 R39332B076 RFC PISTON KIT	—
1	EA	64880	97M79 100484-30 .082 RFC PISTON KIT	—
1	EA	60948	97M84 R100481-05 R410A W/CK TXV VALVE	—
1	EA	63981	97M85 OUTDOOR EXPANSION VALVE R100481-07	—
1	EA	60382	97M91 100121-05 1PH ZR45K3-PFV-135 COMPRESSOR	—
1	EA	63969	97M92 100121-07 1PH ZR48K3-PFV-135 COMPRESSOR	—
1	EA	60374	97M93 100121-09 208/230V 1PH ZR47K3-PFV-135 COMPRESSOR	—
1	EA	67563	97M94 100121-10 208/230V 1PH R42811-018 ZR34K3-PFV-130 COMPRESSOR	—
1	EA	65315	97M95 100121-06 1PH ZR40K3-PFV-130 COMPRESSOR R41579-020	—
1	EA	60275	98G23 MOTOR MOUNT	—
1	EA	69211	98G47 1711 CO ROLLOUT SWITCH R43975-001	—
1	EA	60276	98G89 1/25HP 1PH 208/230V INDUCED DRAFT BLOWER MOTOR	—
1	EA	64867	98M12 100484-12 .062 RFC PISTON KIT	—
1	EA	61097	98M13 100484-19 .070 R39332B070 RFC PISTON KIT	—
1	EA	87872	98M14 100484-36 (.089) RFC PISTON KIT	—
1	EA	64890	98M15 100484-45 .099 RFC PISTON KIT	—
1	EA	63988	98M18 R100060-07 18IN 3 BLADE 17 PITCH FAN	—
1	EA	63991	98M19 R100060-08 18IN 4 BLADE 27 PITCH FAN	—
1	EA	60633	98M20 100060-09 FAN ASSEMBLY	—
1	EA	63992	98M21 R100060-10 22IN 4 BLADE 32 PITCH FAN	—
1	EA	87881	98M39 1/3HP VARIABLE FAN MOTOR 100016-02	—
1	EA	64062	98M43 100145-05 REVERSING VALVE	—
1	EA	63965	98M63 100121-01 208-230V 1PH ZR22K3-PFV-130 COMPRESSOR	—
1	EA	63966	98M64 100121-02 208/230V 1PH ZR28K3-PFV-130 COMPRESSOR	—

Parts (Continued from the Previous Page)

1	EA	63967	98M65 100121-03 1PH ZR32K3-PFV-130 COMPRESSOR	—
1	EA	63968	98M66 100121-04 208/230V 1PH ZR36K3-PFV-130 COMPRESSOR	—
1	EA	60373	98M67 100121-06 208/230V 1PH ZR54K3-PFV-130 COMPRESSOR	—
1	EA	63970	98M68 100404-01 1PH ZR16K4-PFV-130 COMPRESSOR	—
1	EA	60143	98M74 R02592A004 BLOWER WHEEL	—
1	EA	68662	98M75 R07407B000 MOTOR MOUNTING BAND	—
1	EA	61036	98M86 INT08L-4150 RED LIMIT SWITCH R37520B015	—
1	EA	67776	98M87 R44745-001 SENSOR FLAME	—
1	EA	61378	99K21 65258600 FAN ASSEMBLY	—
1	EA	66296	99K22 65258700 FAN BLADE	—
1	EA	63287	99K31 OVERLOAD PROTECTOR	—
1	EA	63289	99K33 OVERLOAD PROTECTOR	—
1	EA	60525	99M81 100335-23 70+5 @ 370V ROUND START CAPACITOR R38514D021	—
1	EA	61061	99M85 R40424-004 FLUE GASKET	—
1	EA	60905	99M89 R100040-05 2.5T COPE COMPRESSOR	—
1	EA	60918	99M90 R100040-11 4T COPE COMPRESSOR	—
1	EA	69874	ADAPT420-2 HWC CHASIS ADAPTER KIT	—
1	EA	66253	ATXV477 EXPANSION VALVE KIT	—
1	EA	66254	ATXV478 EXPANSION VALVE KIT	—
1	EA	66255	ATXV479 EXPANSION VALVE KIT	—
12	EA	70662	L4064B2210/U 11 1/2" FAN & LIMIT	—
1	EA	62228	R00419B158 TEXTURED BEIGE PAINT	—
1	EA	87100	R00419B164 ARMSTRONG TEXTURED SLATE GRAY PAINT AEROSOL	—
1	EA	87101	R00419B165 ARMSTRONG TEXTURED PLATINUM GRAY PAINT AEROSOL	—
1	EA	87102	R00419B169 ARMSTRONG TOUCH-UP SLATE GRAY PAINT PEN	—
1	EA	87103	R00419B170 .5OZ ARMSTRONG SLATE GRAY BRUSH-IN-CAP	—
1	EA	87104	R00419B171 ARMSTRONG TOUCH-UP PLATINUM GRAY PAINT PEN	—
1	EA	87105	R00419B172 .5OZ ARMSTRONG PLATINUM GRAY BRUSH-IN-CAP	—
1	EA	69167	R01081A020 55IN BLOWER BELT	—
1	EA	60864	R01150A007 LIMIT CONTROL	—
1	EA	61457	R01150A008 LIMIT CONTROL	—
1	EA	60219	R01851A018 WHITE LIMIT SWITCH	—
1	EA	60826	R02592A002 BLOWER WHEEL	—
1	EA	68661	R02592A033 BLOWER WHEEL	—
1	EA	60662	R02704B002 AIR SHUTTER SLIDE	—
1	EA	62232	R02708C024 BURNER ASSEMBLY	—
1	EA	61694	R02708C026 COMPLETE BURNER ASSEMBLY	—
1	EA	60650	R02736A002 54 LP ORIFICE	—
1	EA	60895	R02736A007 #37 NATURAL ORIFICE	—
1	EA	69168	R02974A002 FILTER DRIER	—
1	EA	60131	R03336A000 SAILSWITCH	—
1	EA	61385	R03585D008 HEAT EXCHANGER	—
1	EA	61386	R03585D009 HEAT EXCHANGER	—
1	EA	60865	R04123B001 CONTACTOR	—
1	EA	60139	R05701B004 SPARK IGNITION PILOT	—
1	EA	60150	R05834B003 1/4HP 1PH BLOWER MOTOR	—
1	EA	60652	R06311B001 SPARK IGNITION PILOT	—
1	EA	60700	R06428D099 A337 PILOT IGNITION KIT	—
1	EA	61482	R06428D191 A388-1 IGN CONTROL KIT	—
1	EA	67517	R06428D255 A531-1-KIT	—
1	EA	67518	R06428D326 557-1-KIT	—
1	EA	67520	R06428D329 A531-2-KIT	—
1	EA	67521	R06428D334 A530-3-KIT	—
1	EA	69066	R06428D379 1/2HP VARIABLE SPEED AMOTR579 MOTOR KIT	—
1	EA	69067	R06428D380 1/2HP VARIABLE SPEED AMOTR580 MOTOR KIT	—
1	EA	69068	R06428D381 3/4HP VARIABLE SPEED AMOTR581 MOTOR KIT	—
1	EA	69073	R06428D382 1HP VARIABLE SPEED AMOTR582 MOTOR KIT	—
1	EA	60303	R06428D406 AIGN604-1 KIT	—
1	EA	61541	R06428D426 ACOMB605-1 FORCED DRAFT BLOWER	—
1	EA	65998	R06428D434 AGASVLV606-1 GAS VALVE	—
1	EA	60022	R06428D435 AGASVALV607-1 GAS VALVE	—
1	EA	60823	R06428D440 1 STAGE ANK01-1 SERVICE KIT	—
1	EA	60824	R06428D441 2 STAGE ANK02 SERVICE KIT	—
1	EA	60822	R06428D442 ANK05-1 SAFETY SERVICE KIT	—
1	EA	66737	R06428D455 COMBUSTION BLOWER WITH PRESSURE SWITCH INDUCER BLOWER	—
1	EA	64423	R06428D456 COMBUSTION AIR KIT W/PRESSURE SWITCH	—
1	EA	66904	R06428D457 COMBUSTION BLOWER WITH PRESSURE SWITCH INDUCER BLOWER	—
1	EA	63270	R06429D295 AMOTR498-1 (46022-004) REPLACEMENT MOTOR	—
1	EA	60872	R06430B002 SEQUENCER	—
1	EA	60676	R06612B001 CIRCUIT BREAKER	—
1	EA	60712	R07197C004 5.0 KW HEAT ELEMENT	—
1	EA	60154	R07276C003 BLOWER MOTOR	—
1	EA	68663	R07408B001 MOTOR MOUNTING ARM	—



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1	EA	62243	R07535C006 1189 CONTACTOR	—
1	EA	60544	R07535C007 CONTACTOR	—
1	EA	60871	R07579B000 3/10HP 1PH MOTOR	—
1	EA	60866	R08058B001 PILOT BURNER	—
1	EA	60397	R100213-01 MOLDED HARNESS COMPRESSOR PLUG	—
1	EA	60986	R100306-02 .30 WHITE PRESSURE SWITCH	—
1	EA	60418	R100675-01 INDUCED DRAFT BLOWER	—
1	EA	60419	R100676-01 INDUCED DRAFT BLOWER	—
1	EA	87930	R100684-04 GREEN PRESSURE SWITCH	—
1	EA	87947	R101432-12 .45 BLUE PRESSURE SWITCH	—
1	EA	87945	R101432-13 .60 BROWN PRESSURE SWITCH	—
1	EA	87943	R101432-14 .70 GREEN PRESSURE SWITCH	—
1	EA	87946	R101432-15 .85 GREY PRESSURE SWITCH	—
1	EA	87948	R102463-01 .10 ORANGE PRESSURE SWITCH	—
1	EA	86636	R102614-01 87H93 .40IN WC PRESSURE SWITCH	—
1	EA	87944	R102699-02 .70 ORANGE PRESSURE SWITCH	—
1	EA	86622	R103069-01 VARIABLE SPEED IGNITION CONTROL	—
1	EA	63168	R110000244 #2&3 SEQUENCER	—
1	EA	63068	R20390172 CR38K6-PFV-230/130 COMPRESSOR R39594C005	—
1	EA	65926	R21755U BP DX "A" 16FH PUMP COIL KIT	—
1	EA	65925	R21805U MOTOR	—
1	EA	62077	R2184405U OIL PUMP	—
1	EA	62240	R28947A002 PILOT BURNER ORIFICE	—
1	EA	62231	R28947A003 ORIFIC PILOT BURNER	—
1	EA	62233	R28947A006 ORIFIC PILOT	—
1	EA	67799	R28947A008 NATURAL PILOT ORIFICE	—
1	EA	67800	R28947A012 LP PILOT ORIFICE	—
1	EA	60885	R30327B000 1/3 HP MOTOR	—
1	EA	60786	R30511A001 ORIFICE - PILOT	—
1	EA	60779	R30927B000 1/3HP 1PH MOTOR - PSC	—
1	EA	60920	R30956C005 ACCUMULATOR	—
1	EA	60943	R31488B000 IMPEDANCE RELAY	—
1	EA	60152	R32189B000 MOTOR	—
1	EA	60128	R33191A001 TIME DELAY RELAY	—
1	EA	60838	R33394B000 IGNITION BAFFLE	—
1	EA	60802	R33766A002 PRESSURE SWITCH	—
1	EA	60804	R33802A001 RELAY	—
1	EA	67581	R33F1801 TEC 4T COMPRESSOR	—
1	EA	60854	R34016B001 REVERSING VALVE	—
1	EA	61447	R34822B012 #43 ORIFICE	—
1	EA	60868	R34833B001 BLOWER WHEEL	—
1	EA	60216	R35035B001 1/5HP 1PH MOTOR	—
1	EA	60756	R35109B001 1-1/4T 1PH AB5515C-230-1 COMPRESSOR	—
1	EA	60760	R35113B003 3-1/2T 3PH COMPRESSOR	—
1	EA	69057	R35125C010 AW500FT-089-A4 COMPRESSOR	—
1	EA	60863	R35315B003 20" FAN BLADE	—
1	EA	60869	R35775C001 REY3-0175PFV 1-3/4T 1PH COPE COMPRESSOR	—
1	EA	60881	R35777C001 OUTDOOR COIL	—
1	EA	60888	R35890B002 PILOT-ELECTRODE ASSEMBLY	—
1	EA	61188	R36447B001 NATURAL PILOT ASSEMBLY	—
1	EA	60186	R36447B004 LP PILOT ASSY	—
1	EA	60980	R36447B006 PILOT ASSY	—
1	EA	60218	R36604B002 T2077 FAN & LIMIT	—
1	EA	60672	R36610B001 TRANSFORMER	—
1	EA	63451	R36612B001 TRANSFORMER	—
1	EA	60189	R36753A001 1.10WC PRESS SWITCH	—
1	EA	60877	R36771B001 NATURAL PILOT BURNER	—
1	EA	60368	R37214D001 SS HEAT EXCH	—
1	EA	60370	R37214D003 SS HEAT EXCH	—
1	EA	60351	R37400D025 TL100-1 SERVICE KIT	—
1	EA	60511	R37400D080 TL104-2 INDUCER BLOWER KIT	—
1	EA	60636	R37400D082 TL107-1 BURNER ASSY PILOT KIT	—
1	EA	60188	R37400D085 TL108-1 IGN CONTROL	—
1	EA	66306	R37400D086 TL103-2 IGNITION CONTROL KIT	—
1	EA	60962	R37520B001 WHITE SPILL SWITCH	—
1	EA	60963	R37520B002 YELLOW SPILL SWITCH	—
1	EA	60608	R37520B004 RED ROLLOUT SWITCH	—
1	EA	67529	R37520B009 BLACK FLAME ROLLOUT SWITCH	—
1	EA	63614	R37520B012 BLUE ROLLOUT SWITCH	—
1	EA	61063	R37520B016 275 ORANGE ROLLOUT SWITCH	—
1	EA	60344	R37648B001 2.38 ROUND SCREEN	—
1	EA	61705	R37670D003 HEAT EXCHANGER	—
1	EA	61446	R37670D007 HEAT EXCHANGER	—

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1	EA	61448	R37670D008 HEAT EXCHANGER	—
1	EA	62178	R37883B001 SEQUENCER (T.O.D.)	—
1	EA	62241	R37895C001 BURNER W/CROSSOVER	—
1	EA	60987	R37895C002 BURNER W/PILOT BRACKET	—
1	EA	61051	R37933B002 GAS VALVE	—
1	EA	62236	R37977B003 134 TYPE RELAY	—
1	EA	60988	R37993C001 BLOWER GASKET	—
1	EA	62185	R38071D182 RA103-2 HOT SURFACE SPARK CONVERSION KIT	—
1	EA	65884	R38071D220 RA161-2 IGNITION CONTROL KIT	—
1	EA	63461	R38094B005 PRESSURE SWITCH	—
1	EA	67810	R3811U R47181-001 BROWN GASKET	—
1	EA	62838	R3811U GASKET	—
1	EA	61311	R38147C006 OIL BURNER	—
1	EA	62180	R38266D001 INDUCED DRAFT BLOWER	—
1	EA	62184	R38320B001 GAS VALVE	—
1	EA	60846	R38328B002 LIMIT SWITCH	—
1	EA	61024	R38492B001 FLAME SENSOR	—
1	EA	60847	R38578B001 TRANSFORMER	—
1	EA	60849	R38659A001 THERMAL OVERLOAD KIT	—
1	EA	61463	R38659A002 THERM COMPRESSOR SWITCH	—
1	EA	61027	R38691B001 IGNITION CONTROL	—
1	EA	60487	R38863C005 CR22K6-PFV-170 COMPRESSOR	—
1	EA	67421	R38867B003 AV178RT-046-A4 COMPRESSOR	—
1	EA	67423	R38867B005 AVB5558EXN COMPRESSOR AV-190ET-047-A4	—
1	EA	67424	R38867B006 AV190RT-045-A4 COMPRESSOR	—
1	EA	69886	R38867B015 AV161ET-041-A4 COMPRESSOR	—
1	EA	64339	R38999D018 STAINLESS STEEL HEAT EXCHANGER ASSEMBLY	—
1	EA	64898	R38999D019 STAINLESS STEEL HEAT EXCHANGER	—
1	EA	62197	R38999D020 STAINLESS STEEL HEAT EXCHANGER ASSEMBLY	—
1	EA	61462	R39008C002 RK233ET-009A4 COMPRESSOR	—
1	EA	63475	R39029B002 CENTER BLOWER CONTROL	—
1	EA	61475	R39085B001 18" 3 BLADE FAN	—
1	EA	61479	R39228B001 24IN FAN BLADE	—
1	EA	87959	R39311C001 CR32K6-PFV-220 COMPRESSOR	—
1	EA	63478	R39342B001 FLAME SENSOR	—
1	EA	61560	R39358B001 PLASTIC TEE	—
1	EA	63481	R39514B001 GAS VALVE	—
1	EA	63486	R39598B001 INDUCED DRAFT BLOWER	—
1	EA	67383	R39805B003 MANIFOLD	—
1	EA	67444	R39844B001 1/5HP MOTOR	—
1	EA	60830	R39960B001 BARBED FITTING	—
1	EA	66061	R40086B001 .81 GRAY ORIFICE	—
1	EA	66062	R40086B002 1.05 ORANGE ORIFICE	—
1	EA	66063	R40086B003 1.10 BLACK ORIFICE	—
1	EA	66064	R40086B006 1.00 YELLOW ORIFICE	—
1	EA	61067	R40086B008 .84 BROWN ORIFICE	—
1	EA	61071	R40086B009 .88 WHITE ORIFICE	—
1	EA	61074	R40086B011 .57 PINK ORIFICE	—
1	EA	67453	R40154B002 3IN LONG ORANGE LIMIT SWITCH	—
1	EA	67454	R40154B003 YELLOW LIMIT SWITCH	—
1	EA	67455	R40154B004 GREEN LIMIT SWITCH	—
1	EA	63615	R40154B010 VIOLET/WHITE LIMIT SWITCH	—
1	EA	61060	R40154B011 240F/210F ORANGE/WHITE LIMIT CONTROL	—
1	EA	61695	R40154B023 BLUE/GREEN LIMIT CONTROL	—
1	EA	63616	R40154B024 RED/GREEN LIMIT CONTROL	—
1	EA	63617	R40154B025 PINK/GREEN LIMIT CONTROL	—
1	EA	60694	R40344-002 OIL BURNER TRANSFORMER	—
1	EA	67503	R40344-068 51638 LONG ELECTRODE KIT	—
1	EA	67504	R40344-069 51639 SHORT ELECTRODE KIT	—
1	EA	67506	R40344-077 1/7 HP 3450RPM 21444 MOTOR	—
1	EA	67507	R40344-078 580462 AIR TUBE COMBO	—
1	EA	67510	R40344-082 51484U OIL BURNER ELECTRODE	—
1	EA	67508	R40344-086 IGNITION TRANSFORMER	—
1	EA	67511	R40344-091 T-500 NOZZLE GAUGE	—
1	EA	60298	R40403-003 BLOWER CONTROL	—
1	EA	67544	R40406-007 PILOT ASSEMBLY	—
1	EA	61428	R40446-005 RED PRESSURE SWITCH	—
1	EA	61076	R40638-001 1PH 1/3HP MOTOR	—
1	EA	67546	R40639-001 1/3HP 1PH MOTOR	—
1	EA	67499	R40663-002 SENSOR & ELECTRODE	—
1	EA	63514	R40787-001 ASTAT444 OUTDOOR STAT KIT	—
1	EA	63069	R40905-001 H29B15UABCA COMPRESSOR	—
1	EA	61384	R41093-001 TRAP ASSY	—

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1	EA	66092	R41144-002 INDUCED DRAFT BLOWER	—
1	EA	61381	R41339-001 ORIFICE SERVICE KIT	—
1	EA	61397	R41347-002 RA47G3TA-A COMPRESSOR	—
1	EA	61403	R41347-008 RA33G3TA-A COMPRESSOR	—
1	EA	61404	R41353-001 24IN FAN BLADE	—
1	EA	61405	R41354-001 18IN FAN BLADE	—
1	EA	61406	R41355-001 18IN FAN BLADE	—
1	EA	61270	R41476-004 LIQUID SERVICE VALVE	—
1	EA	61271	R41476-005 SUCTION SERVICE VALVE	—
1	EA	61272	R41476-006 SUCTION SERVICE VALVE	—
1	EA	60286	R41579-004 ZR32K3-PFV 230 COMPRESSOR	—
1	EA	61495	R41755-001 H29B28UABCB COMPRESSOR	—
1	EA	61483	R41976-001 1/3HP HEAT PUMP EMF MOTOR	—
1	EA	67811	R42381-001 HEADER BOX GASKET	—
1	EA	61492	R42489-001 ASSY WIRE	—
1	EA	61493	R42495-001 PILOT BURNER	—
1	EA	60291	R42521-001 1/5HP 1PH 3 BOLT MOTOR	—
1	EA	60292	R42537-001 FAN BLADE	—
1	EA	67501	R42640-001 IGNITOR SENSOR	—
1	EA	63072	R42686-001 FAN BLADE	—
1	EA	63073	R42784-001 1/3HP 1PH MOTOR	—
1	EA	67448	R42936-001 HIGH TEMPERATURE SWITCH	—
1	EA	61696	R43127-001 FLAME SENSOR	—
1	EA	60543	R43203-002 HOT SURFACE IGNITOR	—
1	EA	61438	R43207-001 IGNITION CONTROL	—
1	EA	63621	R43501-001 1/2HP 1PH MOTOR	—
1	EA	61441	R43552-001 51732 OIL BURNER KIT	—
1	EA	60815	R43602-001 INTERLOCK SWITCH	—
1	EA	69190	R43808-001 LOW AMBIENT SWITCH	—
1	EA	69191	R43809-001 480V 24V TRANSFORMER-TI	—
1	EA	69192	R43811-001 460V 230V TRANSFORMER-T3	—
1	EA	69193	R43812-001 180F C.O. ROLLOUT SWITCH	—
1	EA	69203	R43839-001 2ND STAGE DL3 HEATING DELAY RELAY	—
1	EA	69206	R43847-001 K13 COMBUSTION BLOWER RELAY	—
1	EA	67825	R44351-019 9X6 (99062201) BLOWER WHEEL	—
1	EA	67824	R44351-028 1/2HP 240V 3SPD MOTOR(65005500)	—
1	EA	68676	R44367-001 .95HP 460V MOTOR	—
1	EA	67788	R44704-002 INDUCED DRAFT BLOWER	—
1	EA	66995	R44738-001 1/3 HP MOTOR	—
1	EA	67777	R44957-001 CONTROL IGNITION BLOWER	—
1	EA	69882	R44987-001 GAS VALVE	—
1	EA	69883	R44992-001 ELECTRODE	—
1	EA	69884	R44993-001 ELECTRODE WIRE	—
1	EA	60504	R45032-001 LOW PRESSURE SWITCH	—
1	EA	62763	R45457-001 SENSOR IGNITOR	—
1	EA	66271	R45557-003 BLOWER HOUSING ASSY	—
1	EA	60394	R45582-001 FAN BLADE	—
1	EA	61454	R45606-001 1/2HP VAR SPD MOTOR	—
1	EA	64805	R45606-101 PROGRAMMABLE G.E. MOTOR CONTROL	—
1	EA	61456	R45607-001 1/2 HP VARIABLE MOTOR	—
1	EA	64806	R45607-101 PROGRAMMABLE G.E. MOTOR CONTROL	—
1	EA	61486	R45608-001 3/4HP VARIABLE MOTOR	—
1	EA	64807	R45608-101 PROGRAMMABLE G.E. MOTOR CONTROL	—
1	EA	61494	R45609-001 1HP VARIABLE MOTOR	—
1	EA	64808	R45609-101 PROGRAMMABLE G.E. MOTOR CONTROL	—
1	EA	60008	R45688-001 ELECTRODE	—
1	EA	61200	R45689-001 FLAME ROD	—
1	EA	66068	R45694-006 .40 PINK PRESSURE SWITCH	—
1	EA	61539	R45694-007 .35 BLUE PRESSURE SWITCH	—
1	EA	60339	R45694-008 .45 BROWN PRESSURE SWITCH	—
1	EA	61046	R45694-009 .80 GRAY PRESSURE SWITCH	—
1	EA	66128	R45694-011 .55 WHITE/RED PRESSURE SWITCH	—
1	EA	61113	R45695-002 2 STAGE .45 BLUE PRESSURE SWITCH	—
1	EA	61115	R45695-005 2 STAGE .50 PURPLE PRESSURE SWITCH	—
1	EA	61073	R45695-008 .40 PRESSURE SWITCH	—
1	EA	61037	R45695-009 .20 LT BLUE PRESSURE SWITCH	—
1	EA	62249	R45697-001 WHITE/RED PRESSURE SWITCH	—
1	EA	61383	R45697-002 WHITE/BLUE PRESSURE SWITCH	—
1	EA	63172	R45899-001 DELAY TIMER	—
1	EA	86631	R46087-001 INDUCED DRAFT BLOWER	—
1	EA	60899	R46105-011 ORANGE/WHITE LIMIT CONTROL	—
1	EA	60698	R46105-013 GREEN/WHITE LIMIT CONTROL	—
1	EA	65825	R46132-001 1/3 HP VARIABLE SPEED MOTOR	—

Parts (Continued from the Previous Page)

1	EA	65826	R46132-002 1/2 HP VARIABLE SPEED MOTOR	—
1	EA	65827	R46132-003 3/4 HP VARIABLE SPEED MOTOR	—
1	EA	64827	R46132-004 3/4HP PROGRAMMABLE VARIABLE SPEED MOTOR	—
1	EA	64830	R46132-005 1/2HP PROGRAMMABLE VARIABLE SPEED MOTOR	—
1	EA	64809	R46132-101 PROGRAMMABLE G.E. MOTOR CONTROL	—
1	EA	64810	R46132-102 PROGRAMMABLE G.E. MOTOR CONTROL	—
1	EA	64812	R46132-103 PROGRAMMABLE G.E. MOTOR CONTROL	—
1	EA	64820	R46132-104 PROGRAMMABLE G.E. MOTOR CONTROL	—
1	EA	64826	R46132-105 PROGRAMMABLE G.E. MOTOR CONTROL	—
1	EA	63311	R46239-001 FAN BLADE	—
1	EA	65995	R46592-001 110V TO 24V TRANSFORMER	—
1	EA	86632	R46930-001 COMBUSTION BLOWER	—
1	EA	60321	R47267-004 TXV-TUBE LIQUID DRIER ASSEMBLY	—
1	EA	65904	R47346-001 1/5HP 4 BOLT MOTOR	—
1	EA	65905	R47363-001 1/4HP MOTOR	—
1	EA	66078	R47469-001 1/6 HP MOTOR	—
1	EA	61361	R47470-001 1/4HP EMERSON MOTOR	—
1	EA	63175	R47471-002 1/3HP 208/230V MOTOR (39046B001)	—
1	EA	63042	R47472-001 1/3HP MOTOR	—
1	EA	61930	R47473-001 1/2 HP EMERSON MOTOR	—
1	EA	67591	R47474-001 1/2HP MOTOR RS41227-001	—
1	EA	65831	R47485-001 TWO STAGE GAS VALVE	—
1	EA	60417	R47485-003 2 STAGE GAS VALVE	—
1	EA	87873	R47538-001 FAN BLADE	—
1	EA	63054	R47543-001 1/2HP MOTOR	—
1	EA	67402	R47546-001 .90HP BLOWER MOTOR	—
1	EA	61363	R47552-001 3/4HP EMERSON MOTOR	—
1	EA	68672	R47556-001 1/4HP 460V R42908-001 CONDENSER MOTOR	—
1	EA	65828	R47583-001 TWO STAGE IGNITION CONTROL	—
1	EA	60438	R47804-001 (6.5 TON) REVERSING VALVE	—
1	EA	60810	R47865-002 .30 YELLOW PRESSURE SWITCH	—
1	EA	67805	R5780U ELECTRODE KIT R40344-094	—
1	EA	86633	R604221-01 ASSY-SWITCH & BRACKET INTERLOCK SWITCH	—
1	EA	61637	R65040100 1/3HP MOTOR	—
1	EA	67822	R65047700 1/3HP 240V 3SPD MOTOR	—
1	EA	67823	R65047800 1/2HP 240V 3SPD MOTOR	—
1	EA	67804	R7006QU R40344-093 CAD CELL	—
1	EA	87928	R7505AU PRIMARY CONTROL	—
1	EA	62076	R7505BU R7184B1032 PRIMARY CONTROL (7456U)	—
1	EA	62862	R7520U R8184M REPLACEMENT KIT	—
1	EA	87939	R76700431 HORIZONTAL DRAIN PAN	—
1	EA	67833	R76700452 R76734000 TIME DELAY RELAY R44350-006	—
1	EA	87936	R76700502 21IN VERTICAL DRAIN PAN	—
1	EA	63152	R76700542 1/4HP 240V MOTOR	—
1	EA	60340	R76726700 SEQUENCER	—
1	EA	62884	R76728000 9X6 BLOWER WHEEL	—
1	EA	67820	R76729900 DOOR SWITCH	—
1	EA	67829	R76733900 FAN BLOWER RELAY	—
1	EA	67819	R76734700 TRANSFORMER	—
1	EA	61639	R76735900 3/4HP MOTOR	—
1	EA	87937	R76752100 24-1/2IN DRAIN PAN	—
1	EA	65456	R76761500 1/2HP 240V BLOWER MOTOR	—
1	EA	87938	R76769400 HORIZONTAL DRAIN PAN	—
1	EA	61310	R76772400 VARIABLE SPEED MOTOR	—
1	EA	61375	R76772600 MOTOR	—
1	EA	87931	R76793400 13IN VERTICAL DRAIN PAN	—
1	EA	87932	R76793500 14-1/2IN DRAIN PAN	—
1	EA	87933	R76793600 15-1/2IN DRAIN PAN	—
1	EA	87934	R76793700 17-1/2IN VERTICAL DRAIN PAN	—
1	EA	87935	R76793800 21IN VERTICAL DRAIN PAN	—
1	EA	67519	RA530 A530-2-KIT	—
10	EA	60794	RS08245B002 HEAT SENSOR	—
10	EA	61190	RS36453B001 SENSOR	—
1	EA	60615	RS38776B001 1/3HP SERVICE BLOWER MOTOR	—
1	EA	69885	RS39232D001 4MFD @370 VAC CAPACITOR	—
1	EA	69175	RS39232D004 7.5MFD 370 VAC CAPACITOR	—
1	EA	67760	RS41154-001 1/4 HP MOTOR	—
1	EA	87903	RS45390-002 GAS VALVE AND DRAIN DEFLECTOR	—
12	EA	73505	V800A1476/U GAS VALVE	—
1	EA	63319	X8609 UNIVERSAL FAN TIMER BOARD	—


**Allied Commercial/Lennox Parts**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	86681	10W37 100335-33 80+7.5 @ 440V ROUND START CAPACITOR	—
1	EA	86686	14L67 LB-65734H COMB BLOWER ASSY	—
1	EA	86687	18G89 FLAME SENSOR	—
1	EA	86688	18G90 PILOT BURNER	—
1	EA	86689	18J28 65206300 LIMIT CONTROL	—
1	EA	86692	21060 P-8-1419 NOZZLE	—
1	EA	86694	21308 P-8-9880 MOISTURE CAR	—
1	EA	86696	24W98 101231-02 PRESSURE SWITCH	—
1	EA	86699	26H61 DAMPER SWITCH	—
1	EA	86700	26H66 LIMIT CONTROL	—
1	EA	86701	26H78 MANUAL RESET SWITCH	—
1	EA	86702	26K34 LB-85663J R22 1.5-3 TON TXV KIT NS	—
1	EA	86703	26K35 LB-85663K R22 3.5-5 TON TXV KIT NS	—
1	EA	86704	26K49 LB-85663L R22 1-3 TON TXV KIT NS	—
1	EA	86709	28G80 LIMIT CONTROL	—
1	EA	86717	30W25 100925-03 IGNITION CONTROL	—
1	EA	86721	32663 P-8-7505 1/3 MOTOR	—
1	EA	86726	32M86 SENSOR	—
1	EA	86729	33M70 LB-101225A COMB AIR BLOWER KIT	—
1	EA	86730	37J56 CIRCUIT BREAKER SWITCH	—
1	EA	86731	38631 P-8-9490 TRANSFORMER	—
1	EA	86734	40L81 LB-94701A SENSOR KIT	—
1	EA	86735	41K35 VR8204H1048 GAS VALVE	—
1	EA	86736	41K37 GAS VALVE	—
1	EA	86737	41K38 GAS VALVE	—
1	EA	86738	41K56 LB-109261A IGNITOR	—
1	EA	86742	44A93 145-175 MFD @330V ROUND CAPACITOR	—
1	EA	86755	49L91 PRESSURE SWITCH	—
1	EA	86760	51M14 FLAME SENSOR	—

*Continued on the Following Page*

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STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	86764	53H02 53H0201PR CAPACITOR KIT	—
1	EA	86765	53H13 53H1301PR CAPACITOR KIT	—
1	EA	86766	54G44 RETURN AIR ENTHALPY SENSOR NS	—
1	EA	86767	54G52 TRANSFORMER	—
1	EA	86776	56M61 IGNITION CONTROL	—
1	EA	86780	58L67 LB-94731B BURNER ASSY	—
1	EA	86782	61M35 LB-96382A COND TRAP ASSY	—
1	EA	86784	63A06 176-216 MFD @ 320V ROUND CAPACITOR	—
1	EA	86786	63K93 PRESSURE SWITCH	—
1	EA	86865	65G60 1/6HP 1PH 230V MOTOR	—
1	EA	86867	66247 P-8P1674 FUSE	—
1	EA	86868	66C67 P-8-10283 RELAY	—
1	EA	86872	67M68 LB-107228T BLOWER REPL KIT	—
1	EA	86873	67M69 LB-107228W BLOWER REPL KIT	—
1	EA	86874	68J97 1/6HP 1PH 208/230V MOTOR	—
1	EA	86875	68K21 LB-65734G COMB AIR BLOWER ASSY	—
1	EA	86879	69M32 COMB AIR BLOWER	—
1	EA	86880	69M66 55+5 MFD @ 440V CAPACITOR	—
1	EA	86881	70W46 605263-01 1/2HP 1PH 120V MOTOR	—
1	EA	86883	71G17 MANUAL RESET SWITCH	—
1	EA	86884	71G35 FUSE	—
1	EA	86886	72F83 TIME DELAY RELAY	—
1	EA	86887	72H36 1/4HP 1PH 208/230V MOTOR	—
1	EA	86889	73K93 RETAINING NUT	—
1	EA	86894	75M21 IGNITOR	—
1	EA	86896	78L29 LIMIT CONTROL	—
1	EA	86897	79J74 BURNER	—
1	EA	86898	79L56 65254300 TAPERED ORIFICE	—
1	EA	86899	80C93 PURGE BLOWER	—
1	EA	86901	80K26 PRESSURE SWITCH	—
1	EA	86906	83L83 LIMIT CONTROL	—
1	EA	86907	83L90 LIMIT CONTROL	—
1	EA	86908	83M56 LB-94724H COMB AIR BLOWER	—
1	EA	86910	84L00 LIMIT CONTROL	—
1	EA	86913	85L49 LB-98714A COMB AIR BLOWER ASSY	—
1	EA	86914	86G17 MOUNT	—
1	EA	86916	86H56 BEARING	—
1	EA	86917	87A62 LB-29333BBC WHEEL	—
1	EA	86919	88K38 DISCHARGE AIR SENSOR	—
1	EA	86920	93G35 FREEZE THERMOSTAT	—
1	EA	86925	99K57 COMB BLOWER	—
1	EA	86926	99K65 GAS VALVE	—



## 95G2V Series Gas Furnaces

### Upflow/Horizontal, Two-Stage, Variable Speed



#### Heat Exchanger Design

- Aluminized steel heat exchanger material
- AL29-4C stainless steel secondary heat exchanger
- Non-welded crimped S-curve primary heat exchanger design for maximum durability

#### Burners

- Aluminized steel in shot burners for smooth ignition
- Isolated burner enclosure for quiet operation

#### Air Delivery System

- Efficient ECM variable speed blower motor
- Easily removable slide-out blower design

#### Controls

- System Sentry™ control retains last five (5) fault codes with push button memory recall, regardless of power interruption

#### Specifications

- Gas Inlet: 1/2"
- Volts/Hz/Phase: 120-60-1
- Trans. (V.A.): 40

#### Venting

- 2-speed induced draft motor with stainless steel shaft, steel ball bearings, and fan cooled for long life
- Certified for direct vent (2-pipe) applications only

#### Installation Features

- Left or right gas and electric entry
- Zero step horizontal conversion
- Removable floor base for bottom return air

#### Warranty\*

- 10 year limited parts warranty
- Lifetime limited heat exchanger warranty

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model Number	1st Stage		2nd Stage		AFUE	Nom. Cooling Cap. (tons)	Max. Time Delay Breaker or Fuse	Nominal F.L.A.	Supply W x D	Return W x D	Approx. Ship Weight (lbs.)
	Input (Btuh)	Output (Btuh)	Input (Btuh)	Output (Btuh)							
95G2UH045BV12	29,000	28,000	44,000	42,000	95.0	3	15	7.7	16-3/8 x 19-1/2	23 x 14	130
95G2UH070BV12	43,000	41,000	66,000	62,000	95.0	3	15	7.7	16-3/8 x 19-1/2	23 x 14	138
95G2UH090CV12	57,000	55,000	88,000	84,000	95.0	3	15	7.7	19-7/8 x 19-1/2	23 x 14	154
95G2UH090CV20	57,000	55,000	88,000	85,000	95.0	5	20	12.8	19-7/8 x 19-1/2	23 x 14	166
95G2UH110CV20	72,000	70,000	110,000	105,000	95.0	4	15	12.8	19-7/8 x 19-1/2	23 x 14	173
95G2UH135DV20	88,000	84,000	135,000	126,000	95.0	5	20	12.8	23-3/8 x 19-1/2	23 x 14	188

#### Furnaces

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
33 x 17-1/2 x 28-1/2	1	EA	84534	95G2UH045BV12 95% 45K 3T 2STG VAR FURNACE UPFLOW/HORIZ
33 x 17-1/2 x 28-1/2	1	EA	84535	95G2UH070BV12 95% 70K 3T 2STG VAR FURNACE UPFLOW/HORIZ
33 x 21 x 28-1/2	1	EA	84536	95G2UH090CV12 95% 90K 3T 2STG VAR FURNACE UPFLOW/HORIZ
33 x 21 x 28-1/2	1	EA	84537	95G2UH090CV20 95% 90K 5T 2STG VAR FURNACE UPFLOW/HORIZ
33 x 21 x 28-1/2	1	EA	84538	95G2UH110CV20 95% 110K 5T 2STG VAR FURNACE UPFLOW/HORIZ
33 x 24-1/2 x 28-1/2	1	EA	84539	95G2UH135DV20 95% 135K 5T 2STG VAR FURNACE UPFLOW/HORIZ

#### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84340	68W64 24.5" RETURN AIR BASE
1	EA	84341	51W11 2" AND 3" FLUSH MOUNT TERMINATION KIT
1	EA	84342	71M80 1-1/2" CONCENTRIC VENT KIT
4	EA	84343	CVENT-2 2" CONCENTRIC VENT KIT
4	EA	84344	CVENT-3 3" CONCENTRIC VENT KIT
1	EA	84258	78W94 LP KIT F/ 95% 2 STG FURNACE
1	EA	87909	84W50 605927-11 NIGHT SERVICE KIT A95UH/DF 95G2



## 95G2V Series Gas Furnaces Downflow, Two-Stage, Variable Speed



### Heat Exchanger Design

- Aluminized steel heat exchanger material
- AL29-4C stainless steel secondary heat exchanger
- Non-welded crimped S-curve primary heat exchanger design for maximum durability

### Burners

- Aluminized steel in shot burners for smooth ignition
- Isolated burner enclosure for quiet operation

### Air Delivery System

- Efficient ECM variable speed blower motor
- Easily removable slide-out blower design

### Controls

- System Sentry™ control retains last five (5) fault codes with push button memory recall, regardless of power interruption

### Specifications

- Gas Inlet: 1/2"
- Volts/Hz/Phase: 120-60-1
- Trans (V.A.): 40

### Venting

- 2-speed induced draft motor with stainless steel shaft, steel ball bearings, and fan cooled for long life
- Certified for direct vent (2-pipe) applications only

### Installation Features

- Left or right gas and electric entry
- Zero step horizontal conversion

### Warranties\*

- 10 year limited parts warranty
- Lifetime limited heat exchanger warranty

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model Number	1st Stage		2nd Stage		AFUE	Nom. Cooling Capacity (tons)	Max. Time Delay Breaker or Fuse	Nominal F.L.A.	Supply W x D	Return W x D	Approx. Ship Weight (lbs.)
	Input (Btuh)	Output (Btuh)	Input (Btuh)	Output (Btuh)							
95G2DF045BV12	29,000	28,000	44,000	43,000	95.0	3	15	7.7	16 x 20-1/8	16-3/8 x 19-1/2	131
95G2DF070BV16	43,000	42,000	66,000	64,000	95.0	4	15	10.1	16 x 20-1/8	16-3/8 x 19-1/2	138
95G2DF090CV20	57,000	56,000	88,000	85,000	95.0	5	20	12.8	19-1/2 x 20-1/8	19-7/8 x 19-1/2	166
95G2DF110CV20	72,000	70,000	110,000	106,000	95.0	5	20	12.8	19-1/2 x 20-1/8	19-7/8 x 19-1/2	176

### Furnaces

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
33 x 17-1/2 x 28-1/2	1	EA	84530	95G2DF045BV12 95% 45K 3T 2STG VAR FURNACE DOWNFLOW
33 x 17-1/2 x 28-1/2	1	EA	84531	95G2DF070BV16 95% 70K 4T 2STG VAR FURNACE DOWNFLOW
33 x 21 x 28-1/2	1	EA	84532	95G2DF090CV20 95% 90K 5T 2STG VAR FURNACE DOWNFLOW
33 x 21 x 28-1/2	1	EA	84533	95G2DF110CV20 95% 110K 5T 2STG VAR FURNACE DOWNFLOW

### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84340	68W64 24.5" RETURN AIR BASE
1	EA	84341	51W11 2" AND 3" FLUSH MOUNT TERMINATION KIT
1	EA	84342	71M80 1-1/2" CONCENTRIC VENT KIT
4	EA	84343	CVENT-2 2" CONCENTRIC VENT KIT
4	EA	84344	CVENT-3 3" CONCENTRIC VENT KIT
1	EA	84258	78W94 LP KIT F/ 95% 2 STG FURNACE
1	EA	87909	84W50 605927-11 NIGHT SERVICE KIT A95UH/DF 95G2





## 95G1UH Series Gas Furnaces Upflow/Horizontal, Single-Stage



### Heat Exchanger Design

- Aluminized steel design primary heat exchanger with crimped no weld construction
- AL 29-4C stainless steel secondary heat exchanger

### Air Delivery System

- Multi-speed PSC blower motor
- Easily removable slide-out blower design

### Controls

- Self diagnostics saves last 5 fault codes regardless of power interruption

### Specifications

- Gas Inlet: 1/2"
- Volts/Hz/Phase: 120/60/1
- Trans. (V.A.): 40

### Venting

- Design certified for direct and non-direct applications

### Installation Features

- Left or right utility connection
- Zero step horizontal conversion
- Removable floor base for bottom return air

### Warranties\*

- 10 year limited parts warranty
  - Lifetime limited heat exchanger warranty
- \* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Input (Btuh)	Output (Btuh)	AFUE (%)	Nom. Cooling Capacity	Max. Time Delay Breaker or Fuse	Nominal F.L.A.	Supply W x D	Return W x D	Approx. Ship Weight (lbs.)
95G1UH045BP08	44,000	41,000	95.0	1.5-2.0	15	3.1	16-3/8 x 19-1/2	23 x 14	121
95G1UH045BP12	44,000	42,000	95.0	2.0-3.0	15	6.1	16-3/8 x 19-1/2	23 x 14	123
95G1UH070BP12	66,000	64,000	95.0	2.0-3.0	15	6.1	16-3/8 x 19-1/2	23 x 14	128
95G1UH090CP12	88,000	85,000	95.0	2.0-3.0	15	6.1	19-7/8 x 19-1/2	23 x 14	145
95G1UH090CP16	88,000	85,000	95.0	3.0-4.0	15	8.2	19-7/8 x 19-1/2	23 x 14	148
95G1UH110CP16	110,000	106,000	95.0	3.0-4.0	15	8.2	19-7/8 x 19-1/2	23 x 14	157
95G1UH110CP20	110,000	106,000	95.0	4.0-5.0	15	10.0	19-7/8 x 19-1/2	23 x 14	163
95G1UH135DP20	132,000	126,000	95.0	4.0-5.0	15	10.0	23-3/8 x 19-1/2	23 x 14	180

### Furnaces

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
33 x 17-1/2 x 28-1/2	1	EA	84433	95G1UH045BP08 95% 45K 2T UPFLOW/HORIZ FURNACE
33 x 17-1/2 x 28-1/2	1	EA	84434	95G1UH045BP12 95% 45K 3T UPFLOW/HORIZ FURNACE
33 x 17-1/2 x 28-1/2	1	EA	84435	95G1UH070BP12 95% 70K 3T UPFLOW/HORIZ FURNACE
33 x 21 x 28-1/2	1	EA	84436	95G1UH090CP12 95% 90K 3T UPFLOW/HORIZ FURNACE
33 x 21 x 28-1/2	1	EA	84437	95G1UH090CP16 95% 90K 4T UPFLOW/HORIZ FURNACE
33 x 21 x 28-1/2	1	EA	84438	95G1UH110CP16 95% 110K 4T UPFLOW/HORIZ FURNACE
33 x 21 x 28-1/2	1	EA	84439	95G1UH110CP20 95% 110K 5T UPFLOW/HORIZ FURNACE
33 x 24-1/2 x 28-1/2	1	EA	84440	95G1UH135DP20 95% 135K 5T UPFLOW/HORIZ FURNACE

### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84333	68W75 LP KIT
1	EA	63861	68W80 SINGLE STAGE NIGHT SERVICE KIT
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84340	68W64 24.5" RETURN AIR BASE
1	EA	84341	51W11 2" AND 3" FLUSH MOUNT TERMINATION KIT
1	EA	84342	71M80 1-1/2" CONCENTRIC VENT KIT
4	EA	84343	CVENT-2 2" CONCENTRIC VENT KIT
4	EA	84344	CVENT-3 3" CONCENTRIC VENT KIT



## 95G1DF Series Gas Furnaces Downflow, Single-Stage



### Heat Exchanger Design

- Aluminized steel design primary heat exchanger with crimped no weld construction
- AL 29-4C stainless steel secondary heat exchanger

### Air Delivery System

- Multi-speed PSC blower motor
- Easily removable slide-out blower design

### Controls

- Self diagnostics saves last 5 fault codes regardless of power interruption

### Specifications

- Gas Inlet: 1/2"
- Volts/Hz/Phase: 120/60/1
- Trans. (V.A.): 40

### Venting

- Design certified for direct and non-direct applications

### Installation Features

- Left or right utility connection

### Warranties\*

- 10 year limited parts warranty
- Lifetime limited heat exchanger warranty

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Input (Btuh)	Output (Btuh)	AFUE (%)	Nom. Cooling Capacity	Max. Time Delay Breaker or Fuse	Nominal F.L.A.	Supply W x D	Return W x D	Approx. Ship Weight (lbs.)
95G1DF045BP12	44,000	42,000	95.0	2.0-3.0	15	6.1	16 x 20-1/8	16-3/8 x 19-1/2	125
95G1DF070BP12	66,000	64,000	95.0	2.0-3.0	15	6.1	16 x 20-1/8	16-3/8 x 19-1/2	131
95G1DF090CP20	88,000	85,000	95.0	4.0-5.0	20	11.5	19-1/2 x 20-1/8	19-7/8 x 19-1/2	150
95G1DF110CP20	110,000	106,000	95.0	4.0-5.0	20	11.5	19-1/2 x 20-1/8	19-7/8 x 19-1/2	165

### Furnaces

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
33 x 17-1/2 x 28-1/2	1	EA	84429	95G1DF045BP12 95% 45K 3T DOWNFLOW FURNACE
33 x 17-1/2 x 28-1/2	1	EA	84430	95G1DF070BP12 95% 70K 3T DOWNFLOW FURNACE
33 x 21 x 28-1/2	1	EA	84431	95G1DF090CP20 95% 90K 5T DOWNFLOW FURNACE
33 x 21 x 28-1/2	1	EA	84432	95G1DF110CP20 95% 110K 5T DOWNFLOW FURNACE

### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84333	68W75 LP KIT
1	EA	63861	68W80 SINGLE STAGE NIGHT SERVICE KIT
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84340	68W64 24.5" RETURN AIR BASE
1	EA	84341	51W11 2" AND 3" FLUSH MOUNT TERMINATION KIT
1	EA	84342	71M80 1-1/2" CONCENTRIC VENT KIT
4	EA	84343	CVENT-2 2" CONCENTRIC VENT KIT
4	EA	84344	CVENT-3 3" CONCENTRIC VENT KIT



## 92G1UH Series Gas Furnaces Upflow/Horizontal, Single-Stage



### Heat Exchanger Design

- Aluminized steel design primary heat exchanger with crimped no weld construction
- AL 29-4C stainless steel secondary heat exchanger

### Air Delivery System

- Multi-speed PSC blower motor
- Easily removable slide-out blower design

### Controls

- Self diagnostics saves last 5 fault codes regardless of power interruption

### Specifications

- Gas Inlet: 1/2"
- Volts/Hz/Phase: 120/60/1
- Trans. (V.A.): 40

### Venting

- Design certified for direct and non-direct applications

### Installation Features

- Left or right utility connection
- Zero step horizontal conversion
- Removable floor base for bottom return air

### Warranties\*

- 10 year limited parts warranty
  - Lifetime limited heat exchanger warranty
- \* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Input (Btuh)	Output (Btuh)	AFUE (%)	Nom. Cooling Capacity	Max. Time Delay Breaker or Fuse	Nominal F.L.A.	Supply (W x D)	Return (W x D)	Approx. Ship Weight (lbs.)
92G1UH045BP08	44,000	41,000	92.1	1.5-2.0	15	3.1	16-3/8 x 19-1/2	23 x 14	120
92G1UH045BP12	44,000	42,000	92.1	2.5-3.0	15	6.1	16-3/8 x 19-1/2	23 x 14	122
92G1UH070BP08	66,000	62,000	92.1	1.5-2.0	15	3.1	16-3/8 x 19-1/2	23 x 14	125
92G1UH070BP12	66,000	62,000	92.1	2.5-3.0	15	6.1	16-3/8 x 19-1/2	23 x 14	127
92G1UH090CP12	88,000	83,000	92.1	2.0-3.0	15	6.1	19-7/8 x 19-1/2	23 x 14	143
92G1UH090CP16	88,000	83,000	92.1	3.0-4.0	15	8.2	19-7/8 x 19-1/2	23 x 14	146
92G1UH110CP16	110,000	104,000	92.1	3.0-4.0	15	8.2	19-7/8 x 19-1/2	23 x 14	155
92G1UH110CP20	110,000	104,000	92.1	4.0-5.0	15	10.0	19-7/8 x 19-1/2	23 x 14	161
92G1UH135DP20	135,000	124,000	92.1	4.0-5.0	15	10.0	23-3/8 x 19-1/2	23 x 14	178

### Furnaces

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
33 x 17-1/2 x 28-1/2	1	EA	84420	92G1UH045BP08 92% 45K 2T UPFLOW/HORIZ FURNACE
33 x 17-1/2 x 28-1/2	1	EA	84421	92G1UH045BP12 92% 45K 3T UPFLOW/HORIZ FURNACE
33 x 17-1/2 x 28-1/2	1	EA	84422	92G1UH070BP08 92% 70K 2T UPFLOW/HORIZ FURNACE
33 x 17-1/2 x 28-1/2	1	EA	84423	92G1UH070BP12 92% 70K 3T UPFLOW/HORIZ FURNACE
33 x 21 x 28-1/2	1	EA	84424	92G1UH090CP12 92% 90K 3T UPFLOW/HORIZ FURNACE
33 x 21 x 28-1/2	1	EA	84425	92G1UH090CP16 92% 90K 4T UPFLOW/HORIZ FURNACE
33 x 21 x 28-1/2	1	EA	84426	92G1UH110CP16 92% 110K 4T UPFLOW/HORIZ FURNACE
33 x 21 x 28-1/2	1	EA	84427	92G1UH110CP20 92% 110K 5T UPFLOW/HORIZ FURNACE
33 x 24-1/2 x 28-1/2	1	EA	84428	92G1UH135DP20 92% 135K 5T UPFLOW/HORIZ FURNACE

### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84333	68W75 LP KIT
1	EA	63861	68W80 SINGLE STAGE NIGHT SERVICE KIT
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84340	68W64 24.5" RETURN AIR BASE
1	EA	84341	51W11 2" AND 3" FLUSH MOUNT TERMINATION KIT
1	EA	84342	71M80 1-1/2" CONCENTRIC VENT KIT
4	EA	84343	CVENT-2 2" CONCENTRIC VENT KIT
4	EA	84344	CVENT-3 3" CONCENTRIC VENT KIT



## 92G1DF Series Gas Furnaces Downflow, Single-Stage



### Heat Exchanger Design

- Aluminized steel design primary heat exchanger with crimped no weld construction
- AL 29-4C stainless steel secondary heat exchanger

### Air Delivery System

- Multi-speed PSC blower motor
- Easily removable slide-out blower design

### Controls

- Self diagnostics saves last 5 fault codes regardless of power interruption

### Specifications

- Gas Inlet: 1/2"
- Volts/Hz/Phase: 120/60/1
- Trans. (V.A.): 40

### Venting

- Design certified for direct and non-direct applications

### Installation Features

- Left or right utility connection

### Warranties\*

- 10 year limited parts warranty
- Lifetime limited heat exchanger warranty

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Input (Btuh)	Output (Btuh)	AFUE (%)	Nom. Cooling Capacity	Max. Time Delay Breaker or Fuse	Nominal F.L.A.	Supply W x D	Return W x D	Approx. Ship Weight (lbs.)
92G1DF045BP12	44,000	42,000	92.1	2.5-3.0	15	6.1	16 x 20-1/8	16-3/8 x 19-1/2	124
92G1DF070BP12	66,000	62,000	92.1	2.5-3.0	15	6.1	16 x 20-1/8	16-3/8 x 19-1/2	129
92G1DF090CP16	88,000	84,000	92.1	3.0-4.0	15	8.2	19-1/2 x 20-1/8	19-7/8 x 19-1/2	147
92G1DF110CP20	110,000	104,000	92.1	4.0-5.0	20	11.5	19-1/2 x 20-1/8	19-7/8 x 19-1/2	162

### Furnaces

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
33 x 17-1/2 x 28-1/2	1	EA	84416	92G1DF045BP12 92% 45K 3T DOWNFLOW FURNACE
33 x 17-1/2 x 28-1/2	1	EA	84417	92G1DF070BP12 92% 70K 3T DOWNFLOW FURNACE
33 x 21 x 28-1/2	1	EA	84418	92G1DF090CP16 92% 90K 4T DOWNFLOW FURNACE
33 x 21 x 28-1/2	1	EA	84419	92G1DF110CP20 92% 110K 5T DOWNFLOW FURNACE

### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84333	68W75 LP KIT
1	EA	63861	68W80 SINGLE STAGE NIGHT SERVICE KIT
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84340	68W64 24.5" RETURN AIR BASE
1	EA	84341	51W11 2" AND 3" FLUSH MOUNT TERMINATION KIT
1	EA	84342	71M80 1-1/2" CONCENTRIC VENT KIT
4	EA	84343	CVENT-2 2" CONCENTRIC VENT KIT
4	EA	84344	CVENT-3 3" CONCENTRIC VENT KIT



## 80G2UH Series Gas Furnaces

### Upflow/Horizontal, Two-Stage, Variable-Speed



#### Heat Exchanger Design

- Crimped no-weld aluminized clam shell heat exchanger construction

#### Air Delivery System

- ECM™ variable speed blower motor
- Easily removable slide-out blower design

#### Controls

- Self diagnostics saves last 5 fault codes regardless of power interruption

#### Specifications

- Gas Inlet: 1/2"
- Volts/Hz/Phase: 120/60/1
- Trans. (V.A.): 40

#### Installation Features

- Left or right utility connection
- Zero step horizontal conversion
- Removable floor base for bottom return air

#### Venting

- Rotatable draft inducer for venting flexibility

#### Warranties\*

- 10 year limited parts warranty
  - Lifetime limited heat exchanger warranty
- \* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Input (Btuh)	Output (Btuh)	AFUE (%)	Nom. Cooling Capacity (Tons)	Max. Time Delay Breaker or Fuse	Nominal F.L.A.	Supply (W x D)	Return (W x D)	Approx. Ship Weight (lbs.)
80G2UH070AV12	66,000	52,800	80.0	3	15	7.7	13-3/8 x 19-1/2	23 x 14	128
80G2UH090BV16	88,000	70,400	80.0	4	20	12.8	16-3/8 x 19-1/2	23 x 14	154
80G2UH110CV20	110,000	88,000	80.0	5	20	12.8	19-7/8 x 19-1/2	23 x 14	181

#### Furnaces

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
33 x 14-1/2 x 28-3/8	1	EA	84413	80G2UH070AV12 80% 70K 3T UPFLOW/HORIZ FURNACE 2 STAGE VARIABLE SPEED
33 x 17-1/2 x 28-3/8	1	EA	84414	80G2UH090BV16 80% 90K 4T UPFLOW/HORIZ FURNACE 2 STAGE VARIABLE SPEED
33 x 21 x 28-3/8	1	EA	84415	80G2UH110CV20 80% 110K 5T UPFLOW/HORIZ FURNACE 2 STAGE VARIABLE SPEED

#### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	63872	68W81 TWO STAGE NIGHT SERVICE KIT
1	EA	84337	68W61 14.5" RETURN AIR BASE
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84259	77W08 LP KIT F/ 80% 2 STAGE FURNACE



## 80G1UH Series Gas Furnaces

### Upflow/Horizontal, Single-Stage



#### Heat Exchanger Design

- Crimped no-weld aluminized clam shell heat exchanger construction

#### Air Delivery System

- Multi-speed PSC blower motor
- Easily removable slide-out blower design

#### Controls

- Self diagnostics saves last 5 fault codes regardless of power interruption

#### Specifications:

- Gas Inlet: 1/2"
- Volts/Hz/Phase: 120/60/1
- Trans. (V.A.): 40

#### Installation Features

- Left or right utility connection
- Zero step horizontal conversion
- Removable floor base for bottom return air

#### Venting

- Rotatable draft inducer for venting flexibility

#### Warranties\*

- 10 year limited parts warranty
  - Lifetime limited heat exchanger warranty
- \* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Input (Btuh)	Output (Btuh)	AFUE (%)	Nom. Cooling Capacity	Max. Time Delay Breaker or Fuse	Nominal F.L.A.	Supply (W x D)	Return (W x D)	Approx. Ship Weight (lbs.)
80G1UH045AP12	44,000	35,200	80.0	2.0-3.0	15	6.1	13-3/8 x 19-1/2	23 x 14	110
80G1UH070AP08	66,000	52,800	80.0	1.5-2.0	15	3.1	13-3/8 x 19-1/2	23 x 14	114
80G1UH070AP12	66,000	52,800	80.0	2.0-3.0	15	6.1	13-3/8 x 19-1/2	23 x 14	119
80G1UH090BP12	88,000	70,400	80.0	2.0-3.0	15	6.1	16-3/8 x 19-1/2	23 x 14	131
80G1UH090BP16	88,000	70,400	80.0	3.0-0	15	8.2	16-3/8 x 19-1/2	23 x 14	183
80G1UH110CP12	110,000	88,000	80.0	2.0-3.0	15	6.1	19-3/8 x 19-1/2	23 x 14	144
80G1UH110CP16	110,000	88,000	80.0	3.0-4.0	15	8.2	19-3/8 x 19-1/2	23 x 14	151
80G1UH110CP20	110,000	88,000	80.0	4.0-5.0	15	10	19-3/8 x 19-1/2	23 x 14	161
80G1UH135DP20	132,000	105,600	80.0	4.0-5.0	15	10	23-3/8 x 19-1/2	23 x 14	174

#### Furnaces

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
33 x 14-1/2 x 28-3/8	1	EA	84404	80G1UH045AP12 80% 45K 3T UPFLOW/HORIZ FURNACE
33 x 14-1/2 x 28-3/8	1	EA	84405	80G1UH070AP08 80% 70K 2T UPFLOW/HORIZ FURNACE
33 x 14-1/2 x 28-3/8	1	EA	84406	80G1UH070AP12 80% 70K 3T UPFLOW/HORIZ FURNACE
33 x 17-1/2 x 28-3/8	1	EA	84407	80G1UH090BP12 80% 90K 3T UPFLOW/HORIZ FURNACE
33 x 17-1/2 x 28-3/8	1	EA	84408	80G1UH090BP16 80% 90K 4T UPFLOW/HORIZ FURNACE
33 x 21 x 28-3/8	1	EA	84409	80G1UH110CP12 80% 110K 3T UPFLOW/HORIZ FURNACE
33 x 21 x 28-3/8	1	EA	84410	80G1UH110CP16 80% 110K 4T UPFLOW/HORIZ FURNACE
33 x 21 x 28-3/8	1	EA	84411	80G1UH110CP20 80% 110K 5T UPFLOW/HORIZ FURNACE
33 x 24-1/2 x 28-3/8	1	EA	84412	80G1UH135DP20 80% 135K 5T UPFLOW/HORIZ FURNACE

#### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84331	72W47 LP KIT
1	EA	63861	68W80 SINGLE STAGE NIGHT SERVICE KIT
1	EA	84337	68W61 14.5" RETURN AIR BASE
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84340	68W64 24.5" RETURN AIR BASE



## 80G1DF Series Gas Furnace

### Downflow, Single-Stage



#### Heat Exchanger Design

- Crimped no-weld aluminized clam shell heat exchanger construction

#### Air Delivery System

- Multi-speed PSC blower motor
- Easily removable slide-out blower design

#### Controls

- Self diagnostics saves last 5 fault codes regardless of power interruption

#### Specifications

- Gas Inlet: 1/2"
- Volts/Hz/Phase: 120/60/1
- Trans. (V.A.): 40

#### Installation Features

- Left or right utility connection

#### Venting

- Rotatable draft inducer for venting flexibility

#### Warranties\*

- 10 year limited parts warranty
  - Lifetime limited heat exchanger warranty
- \* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Input (Btuh)	Output (Btuh)	AFUE (%)	Nom. Cooling Capacity	Max. Time Delay Breaker or Fuse	Nominal F.L.A.	Supply (W x D)	Return (W x D)	Approx. Ship Weight (lbs.)
80G1DF045AP12	44,000	35,200	80.0	2.0-3.0	15	6.1	13 x 19-1/4	13-3/8 x 19-1/2	112
80G1DF070AP12	66,000	52,800	80.0	2.0-3.0	15	6.1	13 x 19-1/4	13-3/8 x 19-1/2	121
80G1DF090BP16	88,000	70,400	80.0	3.0-4.0	15	8.2	16 x 19-1/4	16-3/8 x 19-1/2	140
80G1DF110CP20	110,000	88,000	80.0	4.0-5.0	15	10.0	19-1/2 x 19-1/4	19-7/8 x 19-1/2	163

#### Furnaces

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
33 x 14-1/2 x 28-3/8	1	EA	84400	80G1DF045AP12 80% 45K 3T DOWNFLOW FURNACE
33 x 14-1/2 x 28-3/8	1	EA	84401	80G1DF070AP12 80% 70K 3T DOWNFLOW FURNACE
33 x 17-1/2 x 28-3/8	1	EA	84402	80G1DF090BP16 80% 90K 4T DOWNFLOW FURNACE
33 x 21 x 28-3/8	1	EA	84403	80G1DF110CP20 80% 110K 5T DOWNFLOW FURNACE

#### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84331	72W47 LP KIT
1	EA	63861	68W80 SINGLE STAGE NIGHT SERVICE KIT
1	EA	84337	68W61 14.5" RETURN AIR BASE
1	EA	84338	68W62 17.5" RETURN AIR BASE
1	EA	84339	68W63 21" RETURN AIR BASE
1	EA	84340	68W64 24.5" RETURN AIR BASE



## 4AC18LT Series Condensing Units

18 SEER, 2-Stage, Split-System, R-410A



### Compressor

- High-efficiency 2-stage Copeland Ultra Tech™ scroll compressor
- Grommet-mounted compressor for quiet operation
- Internally protected against high temperature motor overload conditions
- Heavy-duty compressor sound blanket for quiet operation

### Cabinet

- Full metal louvered panels remove with just two screws per panel for easy coil cleaning and service
- Rounded corners for safety and attractive, clean appearance
- Baked polyester paint finish over galvanized steel for maximum durability
- PVC coated wire fan discharge grill
- External gauge ports for easy service
- Controls located in corner post for easy installation and service

### Coils

- Enhanced aluminum fins and copper tubing for higher efficiency and capacity
- Raised coil prevents debris from collecting in bottom of coil and causing loss of airflow

### Components

- Service valves positioned for quick installation and easy service
- Variable speed condenser fan motor with swept-wing fan blade
- High and low pressure switches factory installed
- ComfortAlert 2™ diagnostics is factory installed
- Factory installed crank case heater
- Charged for 15 ft. of line set

### Warranties\*

- 10 year limited parts warranty
- 10 year limited compressor warranty

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Voltage/Hz/Phase	Voltage Range	Min. Circuit Amp.	Max. Overcurrent Device (Amps)	Compressor		Fan Motor			Refrig. Charge (oz.)	Weight (lbs.)
					Rated Load (Amps)	Locked Rotor (Amps)	Rated Load (Amps)	Rated HP	Nom. RPM		
4AC18LT24	230/60/1	216-253	15.6	25	10.2	52.0	.7	1/3	825	302	297
4AC18LT36	230/60/1	216-253	23.7	40	16.6	82.0	.6	1/3	825	240	297
4AC18LT48	230/60/1	216-253	29.3	50	21.1	96.0	.8	1/3	825	252	297
4AC18LT60	230/60/1	216-253	34.4	60	25.6	118.0	.8	1/3	825	244	321

### Condensing Units

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
44 x 37-2/3 x 35-2/3	1	EA	84461	4AC18LT36P 18 SEER 3T CONDENSER
44 x 37-2/3 x 35-2/3	1	EA	84462	4AC18LT48P 18 SEER 4T CONDENSER
44 x 37-2/3 x 35-2/3	1	EA	84463	4AC18LT60P 18 SEER 5T CONDENSER
44 x 37-2/3 x 35-2/3	1	EA	84464	4AC18LT24P 18 SEER 2T CONDENSER

### Accessories

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
4AC18LT24-60	1	EA	61692	34M72 LOW AMBIENT KIT F/4SCU13
4AC18LT24-36	1	EA	67835	A4TXV01-1 R-410A EXPANSION VALVE
4AC18LT48-60	1	EA	67839	H4TXV03-1 R-410A EXPANSION VALVE





## 4AC16LT Series Condensing Units

16 SEER, 2-Stage, Split-System, R-410A



### Compressor

- High-efficiency 2-stage Copeland UltraTech™ scroll compressor
- Grommet-mounted compressor for quiet operation
- Internally protected against high temperature motor overload conditions
- Heavy-duty compressor sound blanket for quiet operation

### Cabinet

- Full metal louvered panels remove with just two screws per panel for easy coil cleaning and service
- Rounded corners for safety and attractive, clean appearance
- Baked polyester paint finish over galvanized steel for maximum durability
- PVC coated wire fan discharge grill
- External gauge ports for easy service
- Controls located in corner post for easy installation and service

### Coils

- Enhanced aluminum fins and copper tubing for higher efficiency and capacity
- Raised coil prevents debris from collecting in bottom of coil and causing loss of airflow

### Components

- Service valves positioned for quick installation and easy service
- High and low pressure switches factory installed
- ComfortAlert 2™ diagnostics is factory installed
- Factory installed crank case heater
- Charged for 15 ft. of line set

### Warranties\*

- 10 year limited parts warranty
- 10 year limited compressor warranty

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Voltage/Hz/Phase	Voltage Range	Min. Circuit. Amp	Max. Overcurrent Device (Amps)	Compressor		Fan Motor			Refrig. Charge (oz.)	Weight (lbs.)
					Rated Load (Amps)	Locked Rotor (Amps)	Rated Load (Amps)	Rated HP	Nom. RPM		
4AC16LT24	230/60/1	197-253	13.9	20	11.4	52.0	1.1	1/5	1075	117	200
4AC16LT36	230/60/1	197-253	21.9	35	19.0	82.0	1.1	1/6	825	137	230
4AC16LT48	230/60/1	197-253	28.1	45	24.0	96.0	1.1	1/6	825	180	262
4AC16LT60	230/60/1	197-253	33.8	55	26.0	118.0	1.7	1/4	825	214	310

### Condensing Units

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
29-3/4 x 26-3/4 x 24-3/4	1	EA	84457	4AC16LT24P 16 SEER 2T CONDENSER
29-3/4 x 31-1/4 x 29-3/8	1	EA	84458	4AC16LT36P 16 SEER 3T CONDENSER
37-3/4 x 31-1/4 x 29-3/8	1	EA	84459	4AC16LT48P 16 SEER 4T CONDENSER
43-3/4 x 31-1/4 x 29-3/8	1	EA	84460	4AC16LT60P 16 SEER 5T CONDENSER

### Accessories

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
4AC16LT24-60	1	EA	61692	34M72 LOW AMBIENT KIT F/45CU13
4AC16LT24-60	1	EA	61702	45F08 T6-1469 LOW AMBIENT KIT
4AC16LT24-36	1	EA	67835	A4TXV01-1 R-410A EXPANSION VALVE
4AC16LT48-60	1	EA	67836	A4TXV02-1 R-410A EXPANSION VALVE



## 4AC14L Series Condensing Units

14 SEER, Split-System, R-410A



### Features

- Durable compressors with internal pressure relief valves and inherent thermal protection
- High-quality condenser coil with copper tubing and enhanced louvered fin for maximum heat transfer capacity
- Top discharge directs hot air and sound away from living area and shrubbery
- All units are factory run tested
- Available with louvered panel coil protection
- Easy access to electrical panels, pre-wired for easy hook-up to internal components

- 45-degree service valves for easy hook-up service
- Liquid line filter drier shipped loose
- UL and ULC approved and AHRI listed
- Charged for 15 feet of line set

### Warranties\*

- 10 year limited parts warranty
  - 10 year limited compressor warranty
- \* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Voltage/Hz/Phase	Voltage Range	Min. Circuit Amp	Max. Overcurrent Device (Amps)	Compressor		Fan Motor			Refrig. Charge (oz.)	Weight (lbs.)
					Rated Load (Amps)	Locked Rotor (Amps)	Rated Load (Amps)	Rated HP	Nom. RPM		
4AC14L18P	208-230/60/1	197-253	12.0	20	9.0	48	.7	1/10	1075	91	138
4AC14L24P	208-230/60/1	197-253	17.9	30	13.4	58	1.1	1/6	1075	104	166
4AC14L30P	208-230/60/1	197-253	17.2	30	12.9	64	1.1	1/6	825	107	172
4AC14L36P	208-230/60/1	197-253	18.7	30	14.1	77	1.1	1/6	825	107	177
4AC14L42P	208-230/60/1	197-253	24.1	40	17.9	112	1.7	1/4	825	138	208
4AC14L48P	208-230/60/1	197-253	29.0	50	21.8	117	1.7	1/4	825	160	239
4AC14L60P	208-230/60/1	197-253	34.8	60	26.4	134	1.8	1/3	825	192	253

### Condensing Units

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
28-1/2 x 24-1/4 x 24-1/4	1	EA	84450	4AC14L18P 14 SEER 1.5T CONDENSER
32-1/2 x 28-1/4 x 28-1/4	1	EA	84451	4AC14L24P 14 SEER 2T CONDENSER
36-1/2 x 28-1/4 x 28-1/4	1	EA	84452	4AC14L30P 14 SEER 2.5T CONDENSER
36-1/2 x 28-1/4 x 28-1/4	1	EA	84453	4AC14L36P 14 SEER 3T CONDENSER
28-1/2 x 28-1/4 x 28-1/4	1	EA	84454	4AC14L42P 14 SEER 3.5T CONDENSER
36-1/2 x 28-1/4 x 28-1/4	1	EA	84455	4AC14L48P 14 SEER 4T CONDENSER
32-1/2 x 32-1/4 x 32-1/4	1	EA	84456	4AC14L60P 14 SEER 5T CONDENSER

### Accessories

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
4AC14L18-60	1	EA	61702	45F08 T6-1469 LOW AMBIENT KIT
4AC14L18-36	1	EA	67835	A4TXV01-1 R-410A EXPANSION VALVE
4AC14L42-60	1	EA	67836	A4TXV02-1 R-410A EXPANSION VALVE



## 4AC13L Series Condensing Units

### 13 SEER, Split-System, R-410A



#### Features

- High-quality condenser coil with copper tubing and enhanced louvered fin for maximum heat transfer capacity
- Top discharge directs hot air and sound away from living area and shrubbery
- All units are factory run tested
- Available with louvered panel coil protection
- Easy access to electrical panels
- Corner mounted service valves for easy hook-up service

- Liquid line filter drier shipped loose
- UL and ULC approved and AHRI listed
- Charged for 15 feet of line set

#### Warranties\*

- 10 year limited parts warranty
  - 10 year limited compressor warranty
- \* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Voltage/Hz/Phase	Voltage Range	Min. Circuit Amp.	Max. Overcurrent Device (Amps)	Compressor		Fan Motor			Refrig. Charge (oz.)	Weight (lbs.)
					Rated Load (Amps)	Locked Rotor (Amps)	Rated Load (Amps)	Rated HP	Nom. RPM		
4AC13L18P	208-230/60/1	197-253	12.0	20	9.0	39	0.7	1/10	1010	61	138
4AC13L24P	208-230/60/1	197-253	17.5	30	13.4	53	0.7	1/10	1010	70	140
4AC13L30P	208-230/60/1	197-253	18.7	30	14.1	59	1.1	1/5	1090	68	154
4AC13L36P	208-230/60/1	197-253	21.1	35	15.2	70	1.1	1/5	1090	89	149
4AC13L42P	208-230/60/1	197-253	25.3	40	18.8	90	1.7	1/4	825	102	199
4AC13L48P	208-230/60/1	197-253	31.9	50	24.1	100	1.7	1/4	825	120	192
4AC13L60P	208-230/60/1	197-253	29.4	60	22.1	125	1.7	1/4	830	160	205

#### Condensing Units

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
25 x 24-1/4 x 24-1/4	1	EA	84260	4AC13L18P 1.5 TON 208/230/1 R410 CONDENSER
	1	EA	84627	4AC13L18P-7 1.5 TON 208/230/1 R410 CONDENSER
25 x 24-1/4 x 24-1/4	1	EA	84261	4AC13L24P 2 TON 208/230/1 R410 CONDENSER
	1	EA	84628	4AC13L24P-7 2 TON 208/230/1 R410 CONDENSER
29 x 24-1/4 x 24-1/4	1	EA	84262	4AC13L30P 2.5 TON 208/230/1 R410 CONDENSER
29 x 24-1/4 x 24-1/4	1	EA	84630	4AC13L36P-7 3 TON 208/230/1 R410 CONDENSER (51W69)
29 x 28-1/4 x 28-1/4	1	EA	84264	4AC13L42P 3.5 TON 208/230/1 R410 CONDENSER
	1	EA	84631	4AC13L42P-7 3.5 TON 208/230/1 R410 CONDENSER
33 x 28-1/4 x 28-1/4	1	EA	84632	4AC13L48P-7 4 TON 208/230/1 R410 CONDENSER (92W01)
29 x 28-1/4 x 28-1/4	1	EA	84633	4AC13L60P-7 5 TON 208/230/1 R410 CONDENSER (92W02)

#### Accessories

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
4AC13L18-60	1	EA	61702	45F08 T6-1469 COMPRESSOR LOW AMBIENT CUT-OFF
4AC13L18-36	1	EA	67835	A4TXV01-1 R-410A EXPANSION VALVE
4AC13L42-60	1	EA	67836	A4TXV02-1 R-410A EXPANSION VALVE



# Nitrogen Charged Split System Condensing Units

13 SEER, 1 & 3 Phase



- Nitrogen charged for replacement of R-22 components only
- High-quality condenser coil with copper tubing and enhanced louvered fin for maximum heat transfer capacity
- Top discharge directs hot air away from living area and shrubbery
- All units factory run tested
- Available with wire guard coil protection
- Easy access to electrical panels
- Corner mounted service valves for easy hook-up and service
- All units UL and ULC approved
- 5-year limited warranty on compressor
- 5-year limited warranty on all parts

## Cooling Performance with Evaporator Coils

Outdoor Model	Indoor Model Evaporator Coil	SEER	EER	Rated Capacity BTUH	Sensible Capacity BTUH	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device	
							Outdoor		Indoor		Suction	Liquid	Piston	TXV
							Suction	Liquid	Suction	Liquid				
13ACDL018	E(U,C,M,H)1P18A,B+TDR	13.0	11.0	17,700	13,600	600	3/4	3/8	3/4	3/8	3/4	3/8	0.055	A2TXV01
13ACDL024	E(U,C,M,H)1P24A,B+TDR	13.0	11.0	23,400	18,700	800	3/4	3/8	3/4	3/8	3/4	3/8	0.062	A2TXV01
13ACDL030	E(U,C,M,H)1P24A,B+TDR	13.0	11.0	28,000	21,300	900	3/4	3/8	3/4	3/8	3/4	3/8	0.067	A2TXV01
13ACDL036	E(U,C,M,H)1P36B,C+TDR	13.0	11.0	35,000	27,700	1200	7/8	3/8	3/4	3/8	7/8	3/8	0.076	A2TXV01
13ACDL042	E(U,C,M,H)1P43B,C+TDR	13.0	11.0	41,500	32,400	1400	7/8	3/8	7/8	3/8	7/8	3/8	0.080	A2TXV02
13ACDL048	E(U,C,M,H)1P50C+TDR	13.0	11.0	45,500	35,500	1600	7/8	3/8	7/8	3/8	7/8	3/8	0.089	A2TXV02
13ACDL060	E(U,C,M,H)1P150C+TDR	13.0	11.0	58,000	44,100	1750	1-1/8	3/8	7/8	3/8	1-1/8	3/8	0.099	H2TXV03
2SCU13LC136T	E(U,C,M,H)1P36B,C	13.0	11.0	34,800	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	0.076	A2TXV01
2SCU13LC148T	E(U,C,M,H)1P50C	13.0	11.0	45,500	34,100	1600	7/8	3/8	7/8	3/8	7/8	3/8	0.091	A2TXV02
2SCU13LC160T	E(U,C,M,H)1P49C	13.0	11.0	58,000	44,100	1800	7/8	3/8	7/8	3/8	1-1/8	3/8	0.099	H2TXV03

## 1 Phase Condensing Units

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
25 x 24-1/4 x 24-1/4	1	EA	84050	13ACDL018 1.5 TON NITROGEN CHARGED R22 LOUVERED CONDENSER 90W88
25 x 24-1/4 x 24-1/4	1	EA	84051	13ACDL024 2 TON NITROGEN CHARGED R22 LOUVERED CONDENSER 90W89
33 x 24-1/4 x 24-1/4	1	EA	84052	13ACDL030 2.5 TON NITROGEN CHARGED R22 CONDENSER 90W90
29 x 24-1/4 x 24-1/4	1	EA	84053	13ACDL036 3 TON NITROGEN CHARGED R22 CONDENSER 90W91
33 x 28-1/4 x 28-1/4	1	EA	84054	13ACDL042 3.5 TON NITROGEN CHARGED R22 CONDENSER 90W92
37 x 28-1/4 x 28-1/4	1	EA	84055	13ACDL048 4 TON NITROGEN CHARGED R22 CONDENSER 90W93
33 x 28-1/4 x 28-1/4	1	EA	84056	13ACDL060 5 TON NITROGEN CHARGED R22 CONDENSER 90W94

## 3 Phase Condensing Units

24-3/4 x 26-3/4 x 33-3/4	1	EA	84064	2SCU13LC136T 3T 208/230V 3PH NITROGEN R22 CONDENSER 1.332041
29-3/8 x 31-1/4 x 37-3/4	1	EA	84065	2SCU13LC148T 4T 208/230V 3PH NITROGEN R22 CONDENSER 1.332042
29-3/8 x 33-3/4 x 33-3/4	1	EA	84066	2SCU13LC160T 5T 208/230V 3PH NITROGEN R22 CONDENSER 1.332043

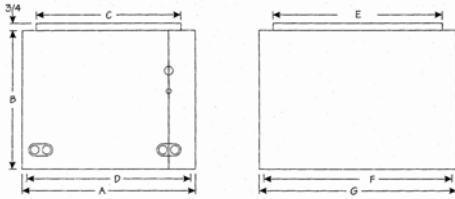
## Accessories

For Models	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1-1/2, 2, 2-1/2 & 3 Ton Units	1	EA	61148	A2TXV01 R22 EXPANSION VALVE	—
3-1/2 & 4 Ton Units	1	EA	61151	A2TXV02 R22 EXPANSION VALVE	—
5 Ton Units	1	EA	61157	H2TXV03 R22 EXPANSION VALVE	—
ALL 13ACDL'S & 2SCU13'S	1	EA	61702	45F08 COMPRESSOR LOW AMBIENT CUT-OFF	—
ALL 13ACDL'S & 2SCU13'S	1	EA	67388	24H77 LOW AMBIENT KIT F/SCU13	—
ALL 13ACDL'S & 2SCU13'S	1	EA	86920	93G35 FREEZE THERMOSTAT	—



## EC1P Cased Evaporator Coils

### Upflow and Counterflow



- Microban® antimicrobial additive in the drain pan to resist mold and mildew growth
- Insulated galvanized steel coil case with durable embossed finish
- Interlocking door assemblies and snug line seal grommets to minimize air leakage
- External cabinet mounted distributor body designed for easy changing of orifice sizes and fast TXV connections
- Foil-face insulation for easy cleaning
- Two dual drain connections on front of coil for installation flexibility of drain lines around furnace vent and utility connections
- 10 year limited parts warranty

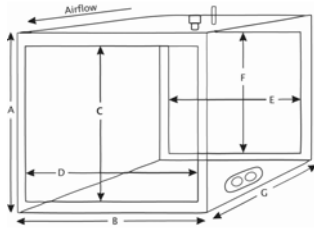
Model Number	A (In.)	B (In.)	C (In.)	D (In.)	E (In.)	F (In.)	G (In.)	Orifice	Refrigerant Connections		Weight (Lbs.)
									Liquid (In.)	Vapor (In.)	
EC1P18AL-1	14-1/2	16-1/2	13	13-1/2	18	20-1/2	21	.051	3/8	3/4	31
EC1P23AL-1	14-1/2	18-1/2	13	13-1/2	18	20-1/2	21	.057	3/8	3/4	39
EC1P23BL-1	17-1/2	18-1/2	16	16-1/2	18	20-1/2	21	.057	3/8	3/4	41
EC1P24AL-1	14-1/2	20-1/2	13	13-1/2	18	20-1/2	21	.057	3/8	3/4	37
EC1P24BL-1	17-1/2	20-1/2	16	16-1/2	18	20-1/2	21	.062	3/8	3/4	40
EC1P29AL-1	14-1/2	25-1/2	13	13-1/2	18	20-1/2	21	.065	3/8	3/4	47
EC1P29BL-1	17-1/2	20-1/2	16	16-1/2	18	20-1/2	21	.065	3/8	3/4	49
EC1P30AL-1	14-1/2	24-1/2	13	13-1/2	18	20-1/2	21	.065	3/8	3/4	45
EC1P30BL-1	17-1/2	24-1/2	16	16-1/2	18	20-1/2	21	.065	3/8	3/4	46
EC1P30CL-1	21	24-1/2	19-1/2	20	18	20-1/2	21	.070	3/8	3/4	50
EC1P36AL-1	14-1/2	24-1/2	13	13-1/2	18	20-1/2	21	.073	3/8	3/4	49
EC1P36BL-1	17-1/2	24-1/2	16	16-1/2	18	20-1/2	21	.073	3/8	3/4	51
EC1P36CL-1	21	24-1/2	19-1/2	20	18	20-1/2	21	.073	3/8	3/4	55
EC1[36DL-1	24-1/2	24-1/2	23	23-1/2	18	20-1/2	21	.076	3/8	3/4	57
EC1P43BL-1	17-1/2	29-1/2	16	16-1/2	18	20-1/2	21	.076	3/8	7/8	60
EC1P43CL-1	21	29-1/2	19-1/2	20	18	20-1/2	21	.076	3/8	7/8	63
EC1P48BL-1	17-1/2	24-1/2	16	16-1/2	18	20-1/2	21	.082	3/8	7/8	52
EC1P48CL-1	21	24-1/2	19-1/2	20	18	20-1/2	21	.082	3/8	7/8	55
EC1P49CL-1	21	29-1/2	19-1/2	20	19	21-1/2	22	.093	3/8	7/8	72
EC1P50CL-1	21	27-1/2	19-1/2	20	18	20-1/2	21	.082	3/8	7/8	66
EC1P60DL-1	24-1/2	25-1/2	23	23-1/2	18	20-1/2	21	.093	3/8	7/8	66
EC1P62CL-1	21	31-1/2	19-1/2	20	19	21-1/2	22	.093	3/8	7/8	76
EC1P62DL-1	24-1/2	29-1/2	23	23-1/2	18	20-1/2	21	.093	3/8	7/8	77

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84600	EC1P18AL-1 DUCANE CASED COIL
1	EA	84601	EC1P23AL-1 DUCANE CASED COIL
1	EA	84602	EC1P23BL-1 DUCANE CASED COIL
1	EA	84603	EC1P24AL-1 DUCANE CASED COIL
1	EA	84604	EC1P24BL-1 DUCANE CASED COIL
1	EA	84605	EC1P29AL-1 DUCANE CASED COIL
1	EA	84606	EC1P29BL-1 DUCANE CASED COIL
1	EA	84607	EC1P30AL-1 DUCANE CASED COIL
1	EA	84608	EC1P30BL-1 DUCANE CASED COIL
1	EA	84609	EC1P30CL-1 DUCANE CASED COIL
1	EA	84610	EC1P36AL-1 DUCANE CASED COIL
1	EA	84611	EC1P36BL-1 DUCANE CASED COIL
1	EA	84612	EC1P36CL-1 DUCANE CASED COIL
1	EA	84613	EC1P36DL-1 DUCANE CASED COIL
1	EA	84614	EC1P43BL-1 DUCANE CASED COIL
1	EA	84615	EC1P43CL-1 DUCANE CASED COIL
1	EA	84616	EC1P48BL-1 DUCANE CASED COIL
1	EA	84617	EC1P48CL-1 DUCANE CASED COIL
1	EA	84618	EC1P49CL-1 DUCANE CASED COIL
1	EA	84619	EC1P50CL-1 DUCANE CASED COIL
1	EA	84620	EC1P60DL-1 DUCANE CASED COIL
1	EA	84621	EC1P62CL-1 DUCANE CASED COIL
1	EA	84622	EC1P62DL-1 DUCANE CASED COIL



## EH1P Cased Coils Horizontal



- Microban® antimicrobial additive in the drain pan to resist mold and mildew growth.
- Drain pan has trough to fully drain condensate away.
- Insulated galvanized steel coil case with durable embossed finish.
- Top, front, and back panels are removable for easy service or coil cleaning.
- Dual condensate drains on front and back of coil allows flexibility of placement to accommodate left or right airflow furnaces.
- Foil faced insulation for easy cleaning.
- Refrigerant connections on top of coil for ease of installation in left or right airflow furnaces.
- 5 year limited warranty.

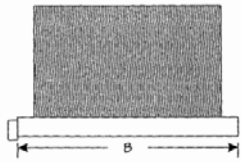
Model Number	A (In.)	B (In.)	Supply		Return		Orifice Size	Weight
			C W (In.)	D H (In.)	E W (In.)	F H (In.)		
EH1P23AM-1	14-1/2	26-1/2	19-3/4	13	20	13-1/2	.057	38
EH1P23BM-1	17-1/2	26-1/2	19-3/4	16	20	16-1/2	.057	50
EH1P29AM-1	14-1/2	31-1/2	19-3/4	13	20-1/4	13-1/2	.065	56
EH1P29BM-1	17-1/2	26-1/2	19-3/4	16	20	16-1/2	.065	45
EH1P36BM-1	17-1/2	26-1/2	19-3/4	16	20	16-1/2	.073	56
EH1P36CM-1	21	26-1/2	19-3/4	19-1/2	20	20	.073	64
EH1P43BM-1	17-1/2	31-1/2	19-3/4	16	20-1/4	16-1/2	.076	52
EH1P43CM-1	21	26-1/2	19-3/4	19-1/2	20	20	.076	56
EH1P49CM-1	21	31-1/2	19-3/4	19-1/2	20-1/4	20	.093	58
EH1P49DM-1	24-1/2	31-1/2	19-3/4	23	21-1/4	23-1/2	.093	66
EH1P62CM-1	21	31-1/2	19-3/4	19-1/2	20-1/4	20	.093	63
EH1P62DM-1	24-1/2	31-1/2	23	19-3/4	23-1/2	20-1/4	.093	63

Prices Available on Request

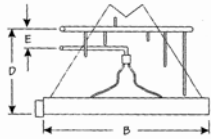
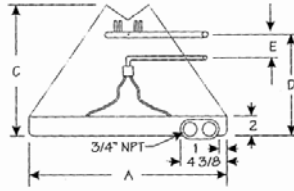
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	67300	EH1P23AM-1 14-1/2IN HORIZONTAL COIL
1	EA	67382	EH1P23BM-1 17-1/2IN HORIZONTAL COIL
1	EA	67395	EH1P29AM-1 14-1/2IN HORIZONTAL COIL
1	EA	67403	EH1P29BM-1 17-1/2IN HORIZONTAL COIL
1	EA	67405	EH1P36BM-1 17-1/2IN HORIZONTAL COIL
1	EA	67411	EH1P36CM-1 21IN HORIZONTAL COIL
1	EA	67412	EH1P43BM-1 17-1/2IN HORIZONTAL COIL
1	EA	67413	EH1P43CM-1 21IN HORIZONTAL COIL
1	EA	67431	EH1P49CM-1 21IN HORIZONTAL COIL
1	EA	67441	EH1P49DM-1 24-1/2IN HORIZONTAL COIL
1	EA	67432	EH1P62CM-1 21IN HORIZONTAL COIL
1	EA	67438	EH1P62DM-1 24-1/2IN HORIZONTAL COIL



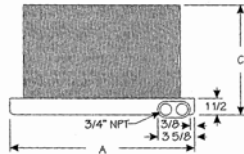
## EU1P Uncased Coils Upflow and Counterflow



EU1P18-48, 50



EU1P49, 60, 62



- Microban® antimicrobial additive in the drain pan to resist mold and mildew growth
- One of the lowest water retention drain pans in the industry to minimize mold and mildew growth
- Two dual drain connections on front of coil for installation flexibility of drain lines around furnace vent and utility connections
- Orifice assembly designed for easy changing of orifice sizes and fast TXV connections
- 5 year limited warranty
- Extended warranty available

Evaporator	A (In.)	B (In.)	C (In.)	D (In.)	E (In.)	Orifice	Refrigerant Connections		Weight (Lbs.)
							Liquid O.D. (In.)	Vapor O.D. (In.)	
EU1P18AN-1	13	19-1/2	15	9-1/2	4-1/2	.051	3/8	3/4	18
EU1P23AN-1	13	19-1/2	17-3/16	12-1/2	4-1/2	.057	3/8	3/4	22
EU1P24AN-1	13	19-1/2	19-3/16	14-1/2	6	.057	3/8	3/4	22
EU1P24BN-1	15-1/2	19-1/2	18-3/4	14-1/2	6	.057	3/8	3/4	23
EU1P29AN-1	13	19-1/2	21-1/4	17-1/3	6-1/2	.065	3/8	3/4	24
EU1P29BN-1	15-1/2	19-1/2	21-1/4	17-1/4	6-1/2	.065	3/8	3/4	25
EU1P30AN-1	13	19-1/2	23-1/4	17-1/3	6-1/2	.065	3/8	3/4	26
EU1P30BN-1	15-1/2	19-1/2	23	17-1/3	6-1/2	.065	3/8	3/4	27
EU1P30CN-1	20	19-1/2	22-1/4	17-1/3	6-1/2	.065	3/8	3/4	29
EU1P36AN-1	13	19-1/2	23-3/8	17-1/3	6-1/2	.073	3/8	3/4	31
EU1P36BN-1	15-1/2	19-1/2	23-1/8	17-1/3	6-1/2	.073	3/8	3/4	33
EU1P36CN-1	20	19-1/2	22-1/2	17-1/3	4-1/2	.073	3/8	3/4	34
EU1P43BN-1	15-1/2	19-1/2	27-1/4	23-1/3	5-1/2	.076	3/8	7/8	43
EU1P43CN-1	20	19-1/2	26-3/4	23-1/3	5-1/2	.076	3/8	7/8	44
EU1P48BN-1	15-1/2	19-1/2	23-1/8	9-1/2	4-1/2	.082	3/8	7/8	33
EU1P48CN-1	20	19-1/2	22-1/2	9-1/2	4-1/2	.082	3/8	7/8	35
EU1P50CN-1	20	19-1/2	26-3/4	23-1/3	5-1/2	.082	3/8	7/8	40
EU1P49CN-1	19-1/2	21-1/2	28-5/8	15	*3	.093	3/8	7/8	53
EU1P60DN-1	23	19-1/2	24	11-3/8	*3	.093	3/8	7/8	42
EU1P62CN-1	19-1/2	21-1/2	30-5/8	18-1/8	*3	.093	3/8	7/8	58
EU1P62DN-1	19-1/2	19-1/2	28-1/8	18-1/4	4-5/8	.093	3/8	7/8	48

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	60464	EU1P18AN-1 13IN UNCASED COIL
1	EA	60783	EU1P23AN-1 13IN UNCASED COIL
1	EA	60467	EU1P24AN-1 13IN UNCASED COIL
1	EA	60538	EU1P24BN-1 15-1/2IN UNCASED COIL
1	EA	60825	EU1P29AN-1 13 IN UNCASED COIL
1	EA	60468	EU1P30AN-1 13IN UNCASED COIL
1	EA	60557	EU1P30BN-1 15-1/2IN UNCASED COIL
1	EA	60579	EU1P30CN-1 20IN UNCASED COIL
1	EA	60481	EU1P36AN-1 13IN UNCASED COIL
1	EA	60483	EU1P36BN-1 15-1/2IN UNCASED COIL
1	EA	60598	EU1P36CN-1 20IN UNCASED COIL
1	EA	60828	EU1P43BN-1 15-1/2IN UNCASED COIL
1	EA	60827	EU1P43CN-1 20IN UNCASED COIL
1	EA	60490	EU1P48BN-1 15-1/2IN UNCASED COIL
1	EA	60837	EU1P48CN-1 20IN UNCASED COIL
1	EA	60841	EU1P49CN-1 20IN UNCASED COIL
1	EA	60492	EU1P50CN-1 20IN UNCASED COIL
1	EA	60843	EU1P60DN-1 23IN UNCASED COIL
1	EA	60493	EU1P62CN-1 20IN UNCASED COIL
1	EA	60518	EU1P62DN-1 23IN UNCASED COIL



## 4HP18LT Series Heat Pumps 18 SEER, Split-System, R-410A



### Compressor

- High-efficiency 2-stage Copeland Ultra Tech™ scroll compressor
- Grommet-mounted compressor for quiet operation
- Internally protected against high temperature motor overload conditions
- Heavy-duty compressor sound blanket for quiet operation

### Cabinet

- Full metal louvered panels remove with just two screws per panel for easy coil cleaning and service
- Controls located in corner post for easy installation and service
- Rounded corners for safety and attractive, clean appearance
- Baked polyester paint finish over galvanized steel for maximum durability
- PVC coated wire fan discharge grille
- External gauge ports for easy service

### Components

- Bi-flow filter drier factory installed for system protection
- Service valves positioned for quick installation and easy service
- Variable speed condenser fan motor with swept-wing fan blade
- High and low pressure switches factory installed
- ComfortAlert 2™ diagnostics displaying up to nine fault codes, is factory installed
- Factory installed crank case heater
- QuietShift™ technology during defrost cycle, to control sound
- Charged for 15 ft. of line set

### Coils

- Enhanced aluminum fins and copper tubing for higher efficiency and capacity
- Raised coil prevents debris from collecting in bottom of coil and causing loss of airflow

### Warranties\*

- 10 year limited parts warranty
- 10 year limited compressor warranty

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Voltage/ Hz/ Phase	Voltage Range	Min. Circuit Amp.	Max. Overcurrent Device (Amps)	Compressor		Fan Motor			Refrig. Line Conn.		Refrig. Charge (oz.)	Weight (lbs.)
					Rated Load (Amps)	Locked Rotor (Amps)	Rated Load (Amps)	Rated HP	Nom. RPM	Liquid O.D. (In.)	Vapor O.D. (In.)		
4HP18LT24P	230/60/1	216-253	15.6	25	10.2	52	.7	1/3	825	3/8	7/8	300	341
4HP18LT36P	230/60/1	216-253	23.7	40	16.6	82	.6	1/3	825	3/8	7/8	283	338
4HP18LT48P	230/60/1	216-253	29.3	50	21.1	96	.8	1/3	825	3/8	1-1/8	262	338
4HP18LT60P	230/60/1	216-253	34.4	60	25.6	118	.8	1/3	825	3/8	1-1/8	274	361

### Heat Pumps

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
44 x 37-2/3 x 35-2/3	1	EA	84481	4HP18LT24P 18 SEER 2T HEAT PUMP
44 x 37-2/3 x 35-2/3	1	EA	84482	4HP18LT36P 18 SEER 3T HEAT PUMP
44 x 37-2/3 x 35-2/3	1	EA	84483	4HP18LT48P 18 SEER 4T HEAT PUMP
44 x 37-2/3 x 35-2/3	1	EA	84484	4HP18LT60P 18 SEER 5T HEAT PUMP

### Accessories

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
All 4HP18 Models	1	EA	61702	45F08 T6-1469 LOW AMBIENT KIT
4HP18LT24-36	1	EA	67837	H4TXV01-1 R-410A EXPANSION VALVE
4HP18LT48-60	1	EA	67839	H4TXV03-1 R-410A EXPANSION VALVE





## 4HP16LT Series Heat Pumps 16 SEER, Split-System, R-410A



### Compressor

- High-efficiency 2-stage Copeland UltraTech™ scroll compressor
- Grommet-mounted compressor for quiet operation
- Internally protected against high temperature motor overload conditions
- Heavy-duty compressor sound blanket for quiet operation

### Cabinet

- Full metal louvered panel coil guard protection
- Rounded corners for safety and attractive, clean appearance
- Baked polyester paint finish over galvanized steel for maximum durability
- PVC coated wire fan discharge grille
- External gauge ports for easy service
- Raised base pan with ports allows for excellent water and debris drainage

### Coils

- Enhanced aluminum fins and copper tubing for higher efficiency and capacity
- Raised coil prevents debris from collecting in bottom of coil and causing loss of airflow

### Components

- Full metal louvered panels remove for easy coil cleaning and service
- Bi-directional filter drier for long-lasting durability and system protection
- Discharge muffler for quiet operation
- High and low pressure switches factory installed
- Factory installed crank case heater
- Advanced design defrost system featuring a smart logic for power consumption savings
- Service valves positioned for quick installation and easy service
- ComfortAlert 2™ diagnostics factory installed
- Reliable, solid state defrost control
- Defrost control is QuietShift™ capable
- Charged for 15 ft. of line set

### Warranties\*

- 10 year limited parts warranty
- 10 year limited compressor warranty

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Voltage/Hz/Phase	Voltage Range	Min. Circuit Amp.	Max. Overcurrent Device (Amps)	Compressor		Fan Motor			Refrig. Charge (Oz.)	Weight (lbs.)
					Rated Load (Amps)	Locked Rotor (Amps)	Rated Load (Amps)	Rated HP	Nom. RPM		
4HP16LT24P	208-230/60/1	197-253	13.5	20	11.4	52	0.7	1/10	1075	146	207
4HP16LT36P	208-230/60/1	197-253	22.5	35	19.0	82	1.7	1/4	825	192	253
4HP16LT48P	208-230/60/1	197-253	28.2	45	24.0	96	1.8	1/3	825	236	288
4HP16LT60P	208-230/60/1	197-253	35.1	60	26.0	118	2.8	1/3	ECM	244	313

### Heat Pumps

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
33-3/4 x 24-3/4 x 26-3/4	1	EA	84477	4HP16LT24P 16 SEER 2T HEAT PUMP
37-3/4 x 29-3/8 x 31-1/4	1	EA	84478	4HP16LT36P 16 SEER 3T HEAT PUMP
37-3/4 x 35-3/4 x 37-3/4	1	EA	84479	4HP16LT48P 16 SEER 4T HEAT PUMP
43-3/4 x 35-3/4 x 37-3/4	1	EA	84480	4HP16LT60P 16 SEER 5T HEAT PUMP

### Accessories

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
All 4HP16 Models	1	EA	61702	45F08 T6-1469 LOW AMBIENT KIT
4HP16LT24-36	1	EA	67837	H4TXV01-1 R-410A EXPANSION VALVE
4HP16LT48	1	EA	67838	H4TXV02-1 R-410A EXPANSION VALVE
4HP16LT60	1	EA	67839	H4TXV03-1 R-410A EXPANSION VALVE



## 4HP14L Series Heat Pumps

### 14 SEER, Split-System, R-410A



#### Features

- High-quality condenser coil with copper tubing and enhanced louvered fin for maximum heat transfer capacity
- Top discharge directs hot air and sound away from living area and shrubbery
- All units factory run tested
- Available with louvered panel coil protection
- Easy access to electrical panels, pre-wired for easy hook-up
- Bi-directional liquid line filter drier factory installed
- Discharge muffler for quiet operation
- Reliable, solid state defrost control

- Defrost control is QuietShift™ capable
- Low pressure switch factory installed for loss of charge protection
- Integrated control with LED diagnostics
- Short cycle protection factory installed
- UL and ULC approved and AHRI listed
- Charged for 15 feet of line set

#### Warranties\*

- 10 year limited parts warranty
  - 10 year limited compressor warranty
- \* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Voltage/Hz/Phase	Voltage Range	Min. Circuit Amp.	Max. Overcurrent Device (Amps)	Compressor		Fan Motor			Refrig. Charge (oz.)	Weight (lbs.)
					Rated Load (Amps)	Locked Rotor (Amps)	Rated Load (Amps)	Rated HP	Nom. RPM		
4HP14L18P	208-230/60/1	197-253	11.9	20	9.0	48	0.7	1/10	1075	132	164
4HP14L24P	208-230/60/1	197-253	17.5	30	13.5	58	0.7	1/10	1075	128	163
4HP14L30P	208-230/60/1	197-253	17.0	30	13.1	64	0.7	1/10	1075	114	176
4HP14L36P	208-230/60/1	197-253	19.4	30	14.1	77	1.8	1/3	825	156	221
4HP14L42P	208-230/60/1	197-253	24.2	40	17.9	112	1.8	1/3	825	199	272
4HP14L48P	208-230/60/1	197-253	29.0	50	21.8	117	1.8	1/3	825	202	277
4HP14L60P	208-230/60/1	197-253	34.8	60	26.4	134	1.8	1/3	825	256	297

#### Heat Pumps

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
28-1/2 x 24-1/4 x 24-1/4	1	EA	84470	4HP14L18P 14 SEER 1.5T HEAT PUMP
28-1/2 x 24-1/4 x 24-1/4	1	EA	84471	4HP14L24P 14 SEER 2T HEAT PUMP
32-1/2 x 24-1/4 x 24-1/4	1	EA	84472	4HP14L30P 14 SEER 2.5T HEAT PUMP
28-1/2 x 32-1/4 x 32-1/4	1	EA	84473	4HP14L36P 14 SEER 3T HEAT PUMP
36-1/2 x 32-1/4 x 32-1/4	1	EA	84474	4HP14L42P 14 SEER 3.5T HEAT PUMP
36-1/2 x 32-1/4 x 32-1/4	1	EA	84475	4HP14L48P 14 SEER 4T HEAT PUMP
42-1/2 x 32-1/4 x 32-1/4	1	EA	84476	4HP14L60P 14 SEER 5T HEAT PUMP

#### Accessories

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
All 4HP14 Models	1	EA	61702	45F08 T6-1469 LOW AMBIENT KIT
4HP14LT18-36	1	EA	67837	H4TXV01-1 R-410A EXPANSION VALVE
4HP14LT42-60	1	EA	67838	H4TXV02-1 R-410A EXPANSION VALVE



## 4HP13 Series Heat Pumps

### 13 SEER, Split-System, R-410A



#### Features

- High-quality condenser coil with copper tubing and enhanced louvered fin for maximum heat transfer capacity
- Top discharge directs hot air and sound away from living area and shrubbery
- All units factory run tested
- Louvered panel coil guard
- Easy access to electrical panels; pre-wired for easy hook-up
- Bi-directional liquid line filter drier factory installed
- Discharge muffler for quiet operation
- Reliable, solid state time/temperature defrost control, with field selectable 30/60/90 minute intervals

- Defrost control is QuietShift™ capable
- Low pressure switch factory installed for loss of charge protection
- Integrated control with LED diagnostics
- Short cycle protection factory installed
- UL and ULC approved and AHRI listed
- Charged for 15 feet of line set

#### Warranties\*

- 10 year limited parts warranty
  - 10 year limited compressor warranty
- \* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Voltage/Hz/Phase	Voltage Range	Min. Circuit Amp.	Max. Overcurrent Device (Amps)	Compressor		Fan Motor			Refrig. Charge (oz.)	Weight (lbs.)
					Rated Load (Amps)	Locked Rotor (Amps)	Rated Load (Amps)	Rated HP	Nom. RPM		
4HP13L18P	208-230/60/1	197-253	11.9	20	9.0	48	0.7	1/10	1075	106	153
4HP13L24P	208-230/60/1	197-253	14.2	20	10.7	53	0.8	1/10	1075	101	158
4HP13L30P	208-230/60/1	197-253	16.3	25	12.4	59	0.7	1/6	825	108	168
4HP13L36P	208-230/60/1	197-253	19.9	35	15.2	70	0.9	1/6	825	114	187
4HP13L42P	208-230/60/1	197-253	27.8	45	21.1	90	1.4	1/4	825	134	224
4HP13L48P	208-230/60/1	197-253	31.7	50	24.1	100	1.5	1/4	825	198	236
4HP13L60P	208-230/60/1	197-253	36.3	60	27.6	120	1.7	1/3	825	210	252

#### Heat Pumps

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
32-1/2 x 24-1/4 x 24-1/4	1	EA	84267	4HP13L18P 1.5 TON 208/230/1 R410 HEAT PUMP
32-1/2 x 24-1/4 x 24-1/4	1	EA	84268	4HP13L24P 2 TON 208/230/1 R410 HEAT PUMP
28-1/2 x 28-1/4 x 28-1/4	1	EA	84269	4HP13L30P 2.5 TON 208/230/1 R410 HEAT PUMP
36-1/2 x 28-1/4 x 28-1/4	1	EA	84270	4HP13L36P 3 TON 208/230/1 R410 HEAT PUMP
42-1/2 x 28-1/4 x 28-1/4	1	EA	84271	4HP13L42P 3.5 TON 208/230/1 R410 HEAT PUMP
32-1/2 x 28-1/4 x 28-1/4	1	EA	84272	4HP13L48P 4 TON 208/230/1 R410 HEAT PUMP
36-1/2 x 28-1/4 x 28-1/4	1	EA	84273	4HP13L60P 5 TON 208/230/1 R410 HEAT PUMP

#### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	61702	45F08 T6-1469 LOW AMBIENT KIT
1	EA	67837	H4TXV01-1 R-410A EXPANSION VALVE
1	EA	67838	H4TXV02-1 R-410A EXPANSION VALVE



# Nitrogen Charged Split System Heat Pumps

13 SEER, 1 & 3 Phase



- Nitrogen charged for replacement of R-22 components only
- High-quality condenser coil with copper tubing and enhanced louvered fin for maximum heat transfer capacity
- Top discharge directs hot air and sound away from living area and shrubbery
- All units run tested
- Available with wire panel coil protection
- Easy access to electrical panels, pre-wired for easy hook-up
- Bi-directional liquid line filter drier factory installed
- Discharge muffler for quiet operation
- Reliable, solid state time/temperature defrost control, with field selectable 30/60/90 minute intervals
- Defrost control is QuietShift™ capable
- Integrated control with LED diagnostics
- Shorty cycle protection factory installed
- All units UL and ULC approved
- 5 year limited warranty on compressor
- 5 year limited warranty on all parts

Outdoor Model	Indoor Model Evap. Coil or Air Handler <sup>1</sup>	Cooling			Heating				CFM	Refrig. Connection		Refrig. Line Size <sup>3</sup>	Indoor Expansion Valve	
		EER	AHRI Rated Cap. <sup>2</sup>	Sens. Cap.	HSPF	47°		17°		Outdoor	Indoor			
						Btuh	COP	Btuh		COP	Suction	Suction	Suction	TXV
13HPDL-018	BCS2M18C****P+TXV	11.5	18,600	14,100	7.7	16,700	3.4	10,500	2.3	600	3/4	3/4	3/4	H2TXV01
13HPDL-024	BCS2M24C****P+TXV	11.5	24,600	18,700	7.7	22,000	3.4	13,800	2.3	800	3/4	3/4	3/4	H2TXV01
13HPDL-030	BCS2M30C****P+TXV	11.0	31,000	23,500	7.7	28,600	3.5	17,900	2.4	1000	3/4	3/4	3/4	H2TXV01
13HPDL-036	BCS2M36C****P+TXV	11.0	35,200	27,100	7.7	33,800	3.5	21,000	2.4	1200	7/8	3/4	7/8	H2TXV01
13HPDL-042	BCS2M42C****P+TXV	11.0	41,500	32,300	7.7	41,000	3.3	23,500	2.3	1400	7/8	7/8	7/8	H2TXV02
13HPDL-048	BCS2M48C****P+TXV	11.0	50,500	38,400	7.7	47,500	3.3	30,100	2.4	1600	7/8	7/8	7/8	H2TXV02
13HPDL-060	BCS2M60C****P+TXV	11.0	57,000	42,800	7.7	55,500	3.3	35,700	2.4	1800	1-1/8	7/8	1-1/8	H2TXV03
2SHP13LC136T	BCS2M36C00NA-1P	11.0	35,200	26,400	7.7	33,800	3.5	21,000	2.4	1200	7/8	7/8	7/8	H2TXV02
2SHP13LC148T	BCS2M48C00NA-1P	11.0	48,000	35,500	7.7	47,500	3.4	30,600	2.4	1600	7/8	7/8	7/8	H2TXV02
2SHP13LC160T	BCS2M60C00NA-1P	11.0	55,000	41,300	7.7	55,000	3.6	35,000	2.5	1800	7/8	7/8	1-1/8	H2TXV01

<sup>1</sup> A blower time delay relay is standard on all Allied Air Enterprises furnaces and AH products.

<sup>2</sup> Certified in accordance with Unitary Air Conditioner Certification Program, which is base on AHRI Standard 210/240.

<sup>3</sup> All Refrigerant liquid line sizes are 3/8"

## 1-Phase Heat Pumps

Prices Available on Request

Dimensions H x W x D (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
33 x 24-1/4 x 24-1/4	1	EA	84057	13HPDL-018 1.5 TON NITROGEN CHARGED R22 HEAT PUMP 90W95
33 x 24-1/4 x 24-1/4	1	EA	84058	13HPDL-024 2 TON NITROGEN CHARGED R22 HEAT PUMP 90W96
29 x 24-1/4 x 24-1/4	1	EA	84059	13HPDL-030 2.5 TON NITROGEN CHARGED R22 HEAT PUMP 90W97
33 x 24-1/4 x 24-1/4	1	EA	84060	13HPDL-036 3 TON NITROGEN CHARGED R22 HEAT PUMP 90W98
33 x 28-1/4 x 28-1/4	1	EA	84061	13HPDL-042 3.5 TON NITROGEN CHARGED R22 HEAT PUMP 90W99
37 x 28-1/4 x 28-1/4	1	EA	84062	13HPDL-048 4 TON NITROGEN CHARGED R22 HEAT PUMP 91W00
37 x 32-1/4 x 32-1/4	1	EA	84063	13HPDL-060 5 TON NITROGEN CHARGED R22 HEAT PUMP 91W01

## 3-Phase Heat Pumps

33-3/4 x 24-3/4 x 26-3/4	1	EA	84067	2SHP13LC136T 3 TON NITROGEN CHARGED R22
37-3/4 x 29-3/8 x 31-1/4	1	EA	84068	2SHP13LC148T 4 TON NITROGEN CHARGED R22
43-3/4 x 29-3/8 x 31-1/4	1	EA	84069	2SHP13LC160T 5 TON NITROGEN CHARGED R22

## Accessories

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
13HPDL18, 24, 30	1	EA	61155	H2TXV01 R22 EXPANSION VALVE
13HPDL36, 42, 48	1	EA	61156	H2TXV02 R22 EXPANSION VALVE
13HPDL60	1	EA	61157	H2TXV03 R22 EXPANSION VALVE
All 13HPDL Models	1	EA	61702	45F08 T6-1469 LOW AMBIENT KIT
ALL 2SHP Models	1	EA	86920	FREEZESTATS (3/8" TUBING)



## BCS2 Multiposition Air Handlers



### Application

- 1-1/2 to 5 ton sizes
- Upflow and horizontal
- Sequenced for demand management
- External access to heater circuit breakers

### Installation

- 1 piece design for easier installation
- Multiposition: upflow, horizontal left, and horizontal right

### Cabinet

- Foil faced insulation
- Painted heavy gauge galvanized cabinet
- Filter rack built into every air handler
- High strength, UV and heat-resistant plastic drain pan for corrosion resistance
- Microban® anti-microbial built into drain pan to resist mold and mildew growth and fouling of the drain
- 2% or less air leakage

### Components

- Efficient PSC blower motors
- Standard transformer and blower relay
- Field installed 5 to 20 kW electric heat kits with easy plug connections
- Built-in indoor time delay for increased efficiency
- Sleeves on distributor tubing to protect tubing

### Accessories

- Counterflow kit
- Single point power kit

### Warranties

- 10 year limited warranty on parts\*
- Extended warranty available
- ETL certified
- UL listed

\*On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Voltage/Hz/Phase	Motor Size (hp)	Max. Elec. Heat Available (kW)	Transformer Size, Type	Filter Size (In.)	Refrigerant Connections (IDS)		Flowrator Piston Size	Weight (Lbs.)
						Suction (In.)	Liquid (In.)		
BCS2M18	208-230/60/1	1/4	10	40 VA, Class 2	16 x 20	3/4	3/8	53	129
BCS2M24	208-230/60/1	1/4	10	40 VA, Class 2	16 x 20	3/4	3/8	59	131
BCS2M30	208-230/60/1	1/4	15	40 VA, Class 2	18 x 20	7/8	3/8	67	148
BCS2M36	208-230/60/1	1/3	15	40 VA, Class 2	18 x 20	7/8	3/8	73	148
BCS2M42	208-230/60/1	1/3	15	40 VA, Class 2	18 x 25	7/8	3/8	80	172
BCS2M48	208-230/60/1	1/2	20	40 VA, Class 2	18 x 25	7/8	3/8	84	177
BCS2M60	208-230/60/1	1/2	20	40 VA, Class 2	18 x 25	7/8	3/8	93	190

### Dimensions (In.)

Air Handler	Height (In.)	Depth (In.)	Width (In.)	Supply Duct Opening (In.)		Return Duct Opening (In.)	
				Depth	Width	Depth	Width
BCS2M18-24	46-3/4	22	18-1/2	17	16-1/2	20-1/4	16
BCS2M30-36	51	22	21-1/4	17	19-1/4	20-1/4	18-3/4
BCS2M42-48	54	26	21-1/4	21	19-1/4	20-1/4	18-3/4
BCS2M60	60	26	21-1/4	21	19-1/4	20-1/4	18-3/4

### Air Handler with Piston Orifice

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	61508	BCS2M18C00NA1P 1.5T MULTI-POSITION AIR HANDLER
1	EA	61509	BCS2M24C00NA1P 2T MULTI-POSITION AIR HANDLER
1	EA	61510	BCS2M30C00NA1P 2.5T MULTI-POSITION AIR HANDLER
1	EA	61511	BCS2M36C00NA1P 3T MULTI-POSITION AIR HANDLER
1	EA	61513	BCS2M42C00NA1P 3.5T MULTI-POSITION AIR HANDLER
1	EA	61516	BCS2M48C00NA1P 4T MULTI-POSITION AIR HANDLER

### Air Handler with Variable Speed

1	EA	62825	BCS2M24V00NA1P 2T MULTI-POSITION AIR HANDLER
1	EA	62826	BCS2M36V00NA1P 3T MULTI-POSITION AIR HANDLER
1	EA	62827	BCS2M42V00NA1P 3-1/2T MULTI-POSITION AIR HANDLER
1	EA	62828	BCS2M48V00NA1P 4T MULTI-POSITION AIR HANDLER
1	EA	62830	BCS2M60V00NA1P 5T MULTI-POSITION AIR HANDLER

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**Modular Air Handlers**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	65524	EFC08BCP-1A 208/230 1PH CONSTANT SPD MODULAR AIR HANDLER
1	EA	65525	EFC12BCP-1A 208/230 1PH CONSTANT SPD MODULAR AIR HANDLER
1	EA	65526	EFC16CCP-1A 208/230 1PH CONSTANT SPD MODULAR AIR HANDLER
1	EA	65529	EFC20DCP-1A 208/230 1PH CONSTANT SPD MODULAR AIR HANDLER
1	EA	65530	EFV12BCP-1A 208/230 1PH VARIABLE SPD MODULAR AIR HANDLER
1	EA	65531	EFV16CCP-1A 208/230 1PH VARIABLE SPD MODULAR AIR HANDLER
1	EA	65532	EFV20DCP-1A 208/230 1PH VARIABLE SPD MODULAR AIR HANDLER

**Accessories**

Used On	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
All BCS2 Models	1	EA	61199	12W61 CB26 DOWNFLOW CONVERSION KIT	—
All BCS2, EFC and EFV Models	1	EA	66907	AEHBCC10CSA-1 10KW HEAT STRIP W/CIRCUIT BREAKER	—
All BCS2, EFC and EFV Models	1	EA	69105	AEHBCC07NSA-1 7.5KW HEAT STRIP W/TERMINAL BLOCK	—
All BCS2, EFC and EFV Models	1	EA	69106	AEHBCC10NSA-1 10KW HEAT STRIP W/TERMINAL BLOCK	—
BCS2* 30, 36, 42, 48, 60 - EFC 12, 16, 20 - EFV 12, 16, 20	1	EA	69107	AEHBCC15CSA-1 15KW HEAT STRIP W/CIRCUIT BREAKER	—
BCS2* 48, 60 - EFC 16, 20 - EFV 16, 20	1	EA	69108	AEHBCC20CSA-1 20KW HEAT STRIP W/CIRCUIT BREAKER	—
All BCS2, EFC and EFV Models	1	EA	69166	AEHBCC05CSA 5KW HEAT STRIP W/CIRCUIT BREAKER	—
All BCS2, EFC and EFV Models	1	EA	69178	AEHBCC07CSA 7.5KW HEAT STRIP W/CIRCUIT BREAKER	—



## BCS3 Multiposition Air Handlers



### Application

- 1-1/2 to 5 ton sizes
- Upflow and horizontal
- Sequenced for demand management
- External access to heater circuit breakers

### Installation

- 1 piece design for easier installation
- Multiposition: upflow/horizontal left/right

### Cabinet

- Foil faced insulation
- Painted, heavy-gauge galvanized cabinet
- Filter rack built into every air handler
- High-strength, UV- and heat-resistant plastic drain pan for corrosion resistance
- Microban® antimicrobial built in to drain pan to resist mold and mildew growth and fouling of the drain
- 2% or less air leakage

### Components

- Efficient PSC blower motors
- Standard transformer and blower relay
- Field-installed 2.5-20 kW electric heat kits with easy plug connections
- Built-in indoor time delay for increased efficiency
- Sleeves on distributor tubing to protect tubing

### Accessories

- Counterflow kit
- Single point power kit

### Warranties

- 10-year limited parts warranty\*
- ETL certified
- AHRI certified

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Volts/Hz/Phase	Max. Elec. Heat Available (kW)	Transformer Size & Type	Filter Size (In.)	Refrigerant Connection (IDS)		Fluator Piston Size	Weight (Lbs.)
					Suction (In.)	Liquid (In.)		
BCS3M18	208-230/60/1	10	40 VA, Class 2	12 X 20	3/4	3/8	.053	104
BCS3M24	208-230/60/1	10	40 VA, Class 2	15 X 20	7/8	3/8	.057	122
BCS3M30	208-230/60/1	12.5	40 VA, Class 2	15 X 20	7/8	3/8	.062	125
BCS3M36	208-230/60/1	15	40 VA, Class 2	18 X 20	7/8	3/8	.071	160
BCS3M42	208-230/60/1	15	40 VA, Class 2	18 X 24	7/8	3/8	.076	162
BCS3M48	208-230/60/1	20	40 VA, Class 2	18 X 24	7/8	3/8	.080	185
BCS3M60	208-230/60/1	20	40 VA, Class 2	18 X 24	7/8	3/8	.093	185

### Dimensions (In.)

Air Handler	Height (In.)	Depth (In.)	Width (In.)	Supply Duct Opening (In.)		Return Duct Opening (In.)	
				Depth	Width	Depth	Width
BCS3M18	38	22	15	17	13	20-3/4	12-1/2
BCS3M24	40-1/2	22	18-1/2	17	16-1/2	20-3/4	16
BCS3M30	43	22	18-1/2	17	16-1/2	20-3/4	16
BCS3M36	48	22	21-7/8	17	19-7/8	20-3/4	19-3/8
BCS3M42	48	26	21-7/8	21	19-7/8	24-3/4	19-3/8
BCS3M48	52-1/2	26	21-7/8	21	19-7/8	24-3/4	19-3/8
BCS3M60	52-1/2	26	21-7/8	21	19-7/8	24-3/4	19-3/8

### Air Handlers

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	84070	BCS3M18C00NA1P 1.5T MULTI-POSITION AIR HANDLER
1	EA	84071	BCS3M24C00NA1P 2T MULTI-POSITION AIR HANDLER
1	EA	84072	BCS3M30C00NA1P 2.5T MULTI-POSITION AIR HANDLER
1	EA	84073	BCS3M36C00NA1P 3T MULTI-POSITION AIR HANDLER
1	EA	84074	BCS3M42C00NA1P 3.5T MULTI-POSITION AIR HANDLER
1	EA	84075	BCS3M48C00NA1P 4T MULTI-POSITION AIR HANDLER
1	EA	84076	BCS3M60C00NA1P 5T MULTI-POSITION AIR HANDLER

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**Electric Heat Kits**

Used On	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
All BCS3 Models	1	EA	84033	ECB25-5CB-P 5KW HEAT STRIP W/CIRCUIT BREAKER
All BCS3 Models	1	EA	84034	ECB25-7CB-P 7.5KW HEAT STRIP W/CIRCUIT BREAKER
All BCS3 Models	1	EA	84035	ECB25-10CB-P 10KW HEAT STRIP W/CIRCUIT BREAKER
BCS3 30, 36, 42, 48, 60	1	EA	84024	ECB25-12.5CB-P 12.5KW HEAT STRIP W/CIRCUIT BREAKER
BCS3 36, 42, 48, 60	1	EA	84036	ECB25-15CB-P 15KW HEAT STRIP W/CIRCUIT BREAKER
BCS3 48, 60	1	EA	84037	ECB25-20CB-P 20KW HEAT STRIP W/CIRCUIT BREAKER

**Accessories**

Used On	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
BCS3 18	1	EA	84038	96W37 BC3M18 AIR HANDLER DOWNFLOW CONVERSION KIT
BCS3 24, 30	1	EA	84039	96W38 BC3M24-30 AIR HANDLER DOWNFLOW CONVERSION KIT
BCS3 36	1	EA	84022	97W95 BC3M36 AIR HANDLER DOWNFLOW CONVERSION KIT
BCS3 42, 48, 60	1	EA	84023	97W96 BC3M42-60 AIR HANDLER DOWNFLOW CONVERSION KIT





## RCE13 Packaged Rooftop Units

### 13 SEER, R-410A, Electric Cooling and Heating



#### Refrigerant System

- Copper tubing with enhanced fin coils
- External service gauge ports

#### Cabinet Construction

- Low profile, with compact footprint
- Insulation to minimize heat loss plus reduce sound
- Baked on pre-painted steel cabinet finish
- Easy service access
- Wire grill protection
- One piece "no leak" top design

#### Blower

- Insulated compartment to reduce sound
- High efficiency multispeed motor for wide airflow range

#### Installation

- Full perimeter base rail system for easy installation
- Horizontal or down discharge, duct covers provided
- Utility connections on "right side"
- Filter channels for 1" filter field provided

#### Warranties\*

- 10 year limited parts and compressor warranty
  - Lifetime limited heat exchanger warranty
- \* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Voltage/Hz/Phase	Voltage Range	Min. Circuit Amp.	Max. Overcurrent Device (Amps)	Compressor		Condenser Fan Motor			Indoor Blower Motor		Refrig. Charge	Weight (lbs.)
					Rated Load (Amps)	Locked Rotor (Amps)	Rated Load (Amps)	Rated HP	Nom. RPM	Rated Load (Amps)	Rated HP		
RCE13A24P	208-230/60/1	197-253	15.7	20	8.3	43	1.2	1/4	1075	4.1	1/2	82	345
RCE13A30P	208-230/60/1	197-253	19.3	25	11.2	54	1.2	1/4	1075	4.1	1/2	82	350
RCE13A36P	208-230/60/1	197-253	22.9	30	14.1	77	1.2	1/4	1075	4.1	1/2	122	360
RCE13A42P	208-230/60/1	197-253	27.5	40	16.2	88	1.7	1/3	1075	5.8	3/4	102	445
RCE13A48P	208-230/60/1	197-253	28.4	40	16.7	84	1.7	1/3	1075	5.8	3/4	96	455
RCE13A60P	208-230/60/1	197-253	38.7	60	25.0	134	1.7	1/3	1075	5.8	3/4	140	465

#### RCE Packaged Units

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
32-1/2 x 46-1/2 x 46-1/2	1	EA	84500	RCE13A24P 13 SEER 2T 1PH PACKAGE AIR CONDITIONER
32-1/2 x 46-1/2 x 46-1/2	1	EA	84501	RCE13A30P 13 SEER 2.5T 1PH PACKAGE AIR CONDITIONER
32-1/2 x 46-1/2 x 46-1/2	1	EA	84502	RCE13A36P 13 SEER 3T 1PH PACKAGE AIR CONDITIONER
34-1/2 x 55-1/2 x 50-1/2	1	EA	84503	RCE13A42P 13 SEER 3.5T 1PH PACKAGE AIR CONDITIONER
34-1/2 x 55-1/2 x 50-1/2	1	EA	84504	RCE13A48P 13 SEER 4T 1PH PACKAGE AIR CONDITIONER
34-1/2 x 55-1/2 x 50-1/2	1	EA	84505	RCE13A60P 13 SEER 5T 1PH PACKAGE AIR CONDITIONER

#### Accessories

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
All RCE13 Models	1	EA	84550	AHSA05A-1 5KW ELECTRIC HEATER
All RCE13 Models	1	EA	84551	AHSA07A-1 7KW ELECTRIC HEATER
All RCE13 Models	1	EA	84552	AHSA10A-1 10KW ELECTRIC HEATER
All RCE13 Models	1	EA	84553	AHSA15A-1 15KW ELECTRIC HEATER
RCE13A42, 48, 60	1	EA	84554	AHSA20A-1 20KW ELECTRIC HEATER
RCE13A24, 30, 36	1	EA	84555	ACURB160-1 2-3 TON ROOF CURB
RCE13A42, 48, 60	1	EA	84556	ACURB162-1 3.5-5 TON ROOF CURB
RCE13A24, 30, 36	1	EA	84557	ADMPR145-1 2-3 TON MANUAL FRESH AIR DAMPER
RCE13A42, 48, 60	1	EA	84558	ADMPR166-1 3.5-5 TON MANUAL FRESH AIR DAMPER
RCE13A24, 30, 36	1	EA	84559	ADMPR146-1 2-3 TON MOTORIZED FRESH AIR DAMPER
RCE13A42, 48, 60	1	EA	84560	ADMPR167-1 3.5-5 TON MOTORIZED FRESH AIR DAMPER
RCE13A24, 30, 36	1	EA	84561	AECON825-1 2-3 TON DOWNFLOW ECONOMIZER
RCE13A42, 48, 60	1	EA	84562	AECON826-1 3.5-5 TON DOWNFLOW ECONOMIZER
RCE13A24, 30, 36	1	EA	84563	AECON827-1 2-3 TON HORIZONTAL ECONOMIZER
RCE13A42, 48, 60	1	EA	84564	AECON828-1 3.5-5 TON HORIZONTAL ECONOMIZER



## RGE13 Packaged Rooftop Units

### 13 SEER, R-410A, Gas Heating and Electric Cooling



#### Refrigerant System

- Copper tubing with enhanced fin coils
- External service gauge ports
- Heat exchanger
- Aluminized steel tapered S-curve
- Crimped no weld construction for longer life

#### Cabinet Construction

- Low profile, with compact footprint
- Insulation to minimize heat loss plus reduce sound
- Baked on pre-painted steel cabinet finish
- Easy service access
- Wire grill protection
- One piece "no leak" top design

#### Blower

- Insulated compartment to reduce sound
- High efficiency multispeed motor for wide airflow range

#### Controls

- Solid state integrated blower control board with LED diagnostics
- Direct spark ignition
- Installation
- Full perimeter base rail system for easy installation
- Horizontal or down discharge, duct covers provided
- Utility connections on "right side"
- Filter channels for 1" filter field provided
- **Warranties\***
- 10 year limited parts and compressor warranty
- Lifetime limited heat exchanger warranty

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Voltage/Hz/Phase	Voltage Range	Min. Circuit Amp.	Max. Overcurrent Device (Amps)	Compressor		Condenser Fan Motor			Indoor Blower Motor		Refrig. Charge	Weight (lbs.)
					Rated Load (Amps)	Locked Rotor (Amps)	Rated Load (Amps)	Rated HP	Nom. RPM	Rated Load (Amps)	Rated HP		
RGE13A24050P	208-230/60/1	197-253	15.7	20	8.3	43	1.2	1/4	1075	4.1	1/2	0.7	1/30
RGE13A24075P	208-230/60/1	197-253	15.7	20	8.3	43	1.2	1/4	1075	4.1	1/2	0.7	1/30
RGE13A30075P	208-230/60/1	197-253	19.3	25	11.2	54	1.2	1/4	1075	4.1	1/2	0.7	1/30
RGE13A36075P	208-230/60/1	197-253	21.7	30	13.1	74	1.2	1/4	1075	4.1	1/2	0.7	1/30
RGE13A36100P	208-230/60/1	197-253	21.7	30	13.1	74	1.2	1/4	1075	4.1	1/2	0.7	1/30
RGE13A42100P	208-230/60/1	197-253	27.5	40	16.0	88	1.7	1/3	1075	5.8	3/4	0.7	1/30
RGE13A48100P	208-230/60/1	197-253	28.4	40	16.7	84	1.7	1/3	1075	5.8	3/4	0.7	1/30
RGE13A48125P	208-230/60/1	197-253	28.4	40	16.7	84	1.7	1/3	1075	5.8	3/4	0.7	1/30
RGE13A60100P	208-230/60/1	197-253	38.7	60	25.0	134	1.7	1/3	1075	5.8	1	0.7	1/30
RGE13A60125P	208-230/60/1	197-253	38.7	60	25.0	134	1.7	1/3	1075	5.8	1	0.7	1/30

#### RGE Packaged Units

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
32-1/2 x 46-1/2 x 46-1/2	1	EA	84506	RGE13A24050P 13 SEER 2T 50K 1PH PACKAGE UNIT
32-1/2 x 46-1/2 x 46-1/2	1	EA	84507	RGE13A24075P 13 SEER 2T 75K 1PH PACKAGE UNIT
32-1/2 x 46-1/2 x 46-1/2	1	EA	84508	RGE13A30075P 13 SEER 2.5T 75K 1PH PACKAGE UNIT
32-1/2 x 46-1/2 x 46-1/2	1	EA	84509	RGE13A36075P 13 SEER 3T 75K 1PH PACKAGE UNIT
32-1/2 x 46-1/2 x 46-1/2	1	EA	84510	RGE13A36100P 13 SEER 3T 100K 1PH PACKAGE UNIT
34-1/2 x 55-1/2 x 50-1/2	1	EA	84511	RGE13A42100P 13 SEER 3.5T 100K 1PH PACKAGE UNIT
34-1/2 x 55-1/2 x 50-1/2	1	EA	84512	RGE13A48100P 13 SEER 4T 100K 1PH PACKAGE UNIT
34-1/2 x 55-1/2 x 50-1/2	1	EA	84513	RGE13A48125P 13 SEER 4T 125K 1PH PACKAGE UNIT
34-1/2 x 55-1/2 x 50-1/2	1	EA	84514	RGE13A60100P 13 SEER 5T 100K 1PH PACKAGE UNIT
34-1/2 x 55-1/2 x 50-1/2	1	EA	84515	RGE13A60125P 13 SEER 5T 125K 1PH PACKAGE UNIT

#### Accessories

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
RGE13A24, 30, 36	1	EA	84555	ACURB160-1 2-3 TON ROOF CURB
RGE13A42, 48, 60	1	EA	84556	ACURB162-1 3.5-5 TON ROOF CURB
RGE13A24, 30, 36	1	EA	84557	ADMPR145-1 2-3 TON MANUAL FRESH AIR DAMPER
RGE13A42, 48, 60	1	EA	84558	ADMPR166-1 3.5-5 TON MANUAL FRESH AIR DAMPER
RGE13A24, 30, 36	1	EA	84559	ADMPR146-1 2-3 TON MOTORIZED FRESH AIR DAMPER
RGE13A42, 48, 60	1	EA	84560	ADMPR167-1 3.5-5 TON MOTORIZED FRESH AIR DAMPER
RGE13A24, 30, 36	1	EA	84561	AECON825-1 2-3 TON DOWNFLOW ECONOMIZER
RGE13A42, 48, 60	1	EA	84562	AECON826-1 3.5-5 TON DOWNFLOW ECONOMIZER
RGE13A24, 30, 36	1	EA	84563	AECON827-1 2-3 TON HORIZONTAL ECONOMIZER
RGE13A42, 48, 60	1	EA	84564	AECON828-1 3.5-5 TON HORIZONTAL ECONOMIZER
All RGE13 Units	1	EA	84565	ALPKT533-3 LP KIT
All RGE13 Models	12	EA	42289	2000.1A25A28A12 25X28X1 STD-CAP PLEATED MERV 7



# RHP13 Packaged Rooftop Units

## 13 SEER, R-410A, Heat Pump



### Refrigerant System

- Copper tubing with enhanced fin coils
- External service gauge ports

### Cabinet Construction

- Low profile, with compact footprint
- Insulation to minimize heat loss plus reduce sound
- Baked on pre-painted steel cabinet finish
- Easy service access
- Wire grill protection
- One piece "no leak" top design

### Blower

- Insulated compartment to reduce sound
- High efficiency multispeed motor for wide airflow range

### Controls

- Integrated control with LED diagnostics
- Defrost control board with field selectable time intervals
- High and low refrigerant pressure switches for system protection
- Installation
- Full perimeter base rail system for easy installation
- Horizontal or down discharge, duct covers provided
- Utility connections on "right side"
- Filter channels for 1" filter field provided

### Warranty

- 10 year limited parts and compressor warranty\*

\* On-line registration required within 60 days of installation. Warranty terms will be impacted if registration not completed on time. See warranty certificate for complete details.

Model No.	Voltage/Hz/Phase	Voltage Range	Min. Circuit Amp.	Max. Overcurrent Device (Amps)	Compressor		Condenser Fan Motor			Indoor Blower Motor		Refrig. Charge	Weight (lbs.)
					Rated Load (Amps)	Locked Rotor (Amps)	Rated Load (Amps)	Rated HP	Nom. RPM	Rated Load (Amps)	Rated HP		
RHP13A24P	208-230/60/1	197-253	21.3	30	12.8	58.3	1.2	1/4	1075	4.1	1/2	80	338
RHP13A30P	208-230/60/1	197-253	21.3	30	12.8	64	1.2	1/4	1075	4.1	1/2	115	365
RHP13A36P	208-230/60/1	197-253	26.1	35	16.6	79	1.2	1/4	1075	4.1	1/2	118	365
RHP13A42P	208-230/60/1	197-253	29.9	40	17.9	112	1.7	1/3	1075	5.8	3/4	164	465
RHP13A48P	208-230/60/1	197-253	34.7	50	21.8	117	1.7	1/3	1075	5.8	3/4	154	470
RHP13A60P	208-230/60/1	197-253	40.5	60	26.4	134	1.7	1/3	1075	5.8	3/4	150	470

### RHP Packaged Units

Prices Available on Request

Dimensions (H x W x D) (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
32-1/2 x 46-1/2 x 46-1/2	1	EA	84516	RHP13A24P 13 SEER 2T 1PH PACKAGE HEAT PUMP
32-1/2 x 46-1/2 x 46-1/2	1	EA	84517	RHP13A30P 13 SEER 2.5T 1PH PACKAGE HEAT PUMP
32-1/2 x 46-1/2 x 46-1/2	1	EA	84518	RHP13A36P 13 SEER 3T 1PH PACKAGE HEAT PUMP
34-1/2 x 55-1/2 x 50-1/2	1	EA	84519	RHP13A42P 13 SEER 3.5 1PH PACKAGE HEAT PUMP
34-1/2 x 55-1/2 x 50-1/2	1	EA	84520	RHP13A48P 13 SEER 4T 1PH PACKAGE HEAT PUMP
34-1/2 x 55-1/2 x 50-1/2	1	EA	84521	RHP13A60P 13 SEER 5T 1PH PACKAGE HEAT PUMP

### Accessories

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
All RHP13 Models	1	EA	84550	AHSA05A-1 5KW ELECTRIC HEATER
All RHP13 Models	1	EA	84551	AHSA07A-1 7KW ELECTRIC HEATER
All RHP13 Models	1	EA	84552	AHSA10A-1 10KW ELECTRIC HEATER
All RHP13 Models	1	EA	84553	AHSA15A-1 15KW ELECTRIC HEATER
RHP13A42, 48, 60	1	EA	84554	AHSA20A-1 20KW ELECTRIC HEATER
RHP13A24, 30, 36	1	EA	84557	ADMPR145-1 2-3 TON MANUAL FRESH AIR DAMPER
RHP13A42, 48, 60	1	EA	84558	ADMPR166-1 3.5-5 TON MANUAL FRESH AIR DAMPER
RHP13A24, 30, 36	1	EA	84559	ADMPR146-1 2-3 TON MOTORIZED FRESH AIR DAMPER
RHP13A42, 48, 60	1	EA	84560	ADMPR167-1 3.5-5 TON MOTORIZED FRESH AIR DAMPER
RHP13A24, 30, 36	1	EA	84561	AECON825-1 2-3 TON DOWNFLOW ECONOMIZER
RHP13A42, 48, 60	1	EA	84562	AECON826-1 3.5-5 TON DOWNFLOW ECONOMIZER
RHP13A24, 30, 36	1	EA	84563	AECON827-1 2-3 TON HORIZONTAL ECONOMIZER
RHP13A42, 48, 60	1	EA	84564	AECON828-1 3.5-5 TON HORIZONTAL ECONOMIZER
RHP13A24, 30, 36	1	EA	84566	ACURB161-1 2-3 TON PKG HEAT PUMP ROOF CURB
RHP13A42, 48, 60	1	EA	84567	ACURB163-1 3.5-5 TON PKG HEAT PUMP ROOF CURB

# Goodman Window Air Conditioner Parts

Model No.	Condenser Fan	Overload Switch	Motor	Blower Wheel	Air Filter	Thermostat	Power Switch	Compressor	Dual Capacitor
RC05010A1D	BT1086700	BT1243708	BT1340000S	BT136800	BT136900	BT1370801	BT1370803	BT9266100S	—
RC05080A1D	BT1086700	BT1243708	BT1340000S	BT136800	BT136900	BT1370801	BT1370803	BT9266100S	—
RC05080A1X	BT1086700	BT1243708	BT1340000S	BT136800	BT136900	N/A	BT1370811	BT9266100S	—
RC06010A1D	BT1086700	BT1243708	BT1340000S	BT136800	BT136900	BT1370801	BT1370803	BT9266101S	—
RC08090A1D	BT1086700	BT1243700	BT1340001S	BT136800	BT136900	BT1370801	BT1370803	BT9266102S	BT9457002
RC10010C1D	BT1086702	BT1243700	BT1340002S	BT136802	BT136902	BT1370801	BT1370803	BT9266103S	BT9457003
RC10090A1D	BT1086700	BT1243700	BT1340001S	BT136800	BT136900	BT1370801	BT1370803	BT9266103S	BT9457002
RC10090A1X	BT1086700	BT1243700	BT1340001S	BT136800	BT136900	N/A	BT1370803	BT9266103S	BT9457002
RC12010C1D	BT1086702	BT1243702	BT1340002S	BT136802	BT136902	BT1370801	BT1370803	BT9266104S	BT9457003
RC12010C2D	BT1086702	BT1243703	BT1340003S	BT136802	BT136902	BT1370801	BT1370803	BT9266105S	BT9457004
RC14010C1D	BT1086702	BT1243704	BT1340004S	BT136802	BT136902	BT1370801	BT1370803	BT9266106S	BT9457003
RC14010C2D	BT1086702	BT1243705	BT1340003S	BT136802	BT136902	BT1370801	BT1370803	BT9266107S	BT9457004
RC18010C2D	BT1086702	BT1243706	BT1340005S	BT136802	BT136902	BT1370801	BT1370803	BT9266108S	BT9457002
RC18090C2L	BT1086702	N/A	BT1340005S	BT136802	BT136902	BT1370805	BT1370806	BT9266201S	BT9457006
RC18090C2X	BT1086702	N/A	BT1340005S	BT136802	BT136902	N/A	BT1370811	BT9266201S	BT9457006
RC24085C2D	BT1086702	N/A	BT1340005S	BT136803	BT136902	BT1370801	BT1370803	BT9266200S	BT9457005
RE14010C2D	BT1086702	BT1243705	BT1340003S	BT136802	BT136902	BT1370801	BT1370803	BT9266107S	BT9457004
RE18010C2D	BT1086702	BT1243706	BT1340005S	BT136802	BT136902	BT1370801	BT1370803	BT9266201S	BT9457006

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	66360	BT9266100S COMPRESSOR	—
1	EA	66361	BT9266101S COMPRESSOR	—
1	EA	66362	BT9266102S COMPRESSOR	—
1	EA	66363	BT9266103S COMPRESSOR	—
1	EA	66365	BT9266105S COMPRESSOR	—
1	EA	66368	BT9266200S COMPRESSOR	—
1	EA	66369	BT9266201S COMPRESSOR	—
1	EA	66370	BT1086700 10IN COND FAN	—
1	EA	66373	BT1243702 OVERLOAD SWITCH	—
1	EA	66377	BT1243708 OVERLOAD SWITCH	—
1	EA	66378	BT1340000S 1/15HP 115V MOTOR	—
1	EA	66380	BT1340002S 1/8HP 115V MOTOR	—
1	EA	66381	BT1340003S 1/15HP 208/230V MOTOR	—
1	EA	66382	BT1340004S 1/5HP 115V MOTOR	—
1	EA	66385	BT1368002 BLOWER WHEEL	—

## FRIEDRICH X-Star Room Unit Air Conditioners



- 24 hour on/off programmer
- Three cooling speeds, plus fan-only setting
- Eight-way air flow control with stale air exhaust vent
- Slide out chassis for easy window or wall installation

X-Star

Plug Type A:  
125 Volt 15 Amp

Sleeve	Dimensions (H x W) (In.)	Depth Hood to Louvers (In.)	Minimum Extension into Room (In.)	Minimum Extension Outside (In.)	Minimum Window Width (In.)	Maximum Window Width (In.)	Thru-the-wall Finished Hole Height (In.)	Thru-the-wall Finished Hole Width (In.)
Q	14 x 19-3/4	8-1/2	5-1/2	10-3/4	22	42	14-1/4	20

Model No.	Capacity, BTUH	Volts	Amps, Cool	Watts, Cool	EER	Moisture Removal, Pints/Hr.	Room Side Air Circulation, CFM	Sleeve	Net Weight (Lb.)	Energy Star	Cord Length (Ft.)
XQ08M10	7,500	115	6.9	701	10.7	1.7	175	Q	71	Yes	6

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	86500	XQ08M10 8000 BTU 410A 115V WINDOW A/C	—	—

**FRIEDRICH Kühl Series Room Unit Air Conditioners**



- Robust, commercial grade fan motor runs at a lower temperature than smaller fan motors, which prevents the unit from overheating and contributes to longer life.
- Aluminum rear grille protects unit from damage and vandalism.
- Aluminum endplates prevent rust from running down the sides of buildings.
- High-tech fins have sine wave, lanced louvers that increase energy efficiency by increasing surface area for heat exchange.
- High efficiency compressors that create smooth, quiet power.
- Extra thick rubber grommets absorb motion and sound to reduce unwanted noise.
- Built-in programmable 7 day thermostat.
- 4 cooling and 4 fan-only speeds.
- 8-way air flow control.
- Unit can be wired to a wall thermostat for easy access to controls when unit is installed where it is not easily accessible.
- Designed to work in outdoor temperatures from 50° to 115° F.



Plug Type A: 125 Volt 15 Amp



Plug Type B: 250 Volt, 15 Amp



Plug Type C: 250 Volt, 20 Amp



Plug Type D: 250 Volt, 30 Amp

Sleeve	Dimensions (H x W) (In.)	Depth Hood to Louvers (In.)	Minimum Extension into Room (In.)	Minimum Extension Outside (In.)	Minimum Window Width (In.)	Maximum Window Width (In.)	Thru-the-wall Finished Hole Height (In.)	Thru-the-wall Finished Hole Width (In.)
Q	14 x 19-3/4	8-1/2	5-1/2	10-3/4	22	42	14-1/4	20
S	15-15/16 x 25-15/16	8-3/4	5-3/4	16-15/16	27-3/8	42	16-3/16	26-3/16
M	17-15/16 x 25-15/16	8-3/4	5-3/4	16-15/16	27-3/8	42	18-3/16	26-3/16
L	20-3/16 x 28	16-1/2	5-3/8	18-15/16	29-7/8	42	20-3/8	28-1/4

Model	Kühl							Kühl + Electric Heat		
	SS10M10	SS12M10	SS14M10	SS12M30	SM18M30	SM24M30	SL36M30	ES12M33	EM18M34	EM24M34
Capacity, BTUH	9,500	12,000	14,000	11,700/11,200	17,500/17,200	23,500/23,300	36,000/35,700	11,700/11,200	17,500/17,200	23,500/23,300
Volts	115	115	115	230/208	230/208	230/208	230/208	230/208	230/208	230/208
Amps, Cool	7.7	10.0	12.0	4.8/4.9	7.4/8.0	11.2/11.9	19.0/20.5	4.8/4.9	7.4/8.0	11.2/11.9
Watts, Cool	848	1071	1444	1026/982	1635/1617	2500/2479	4235/4200	1026/982	1635/1617	2500/2479
EER	11.2	11.2	9.7	11.4/11.4	10.7/10.7	9.4/9.4	8.5/8.5	11.4/11.4	10.7/10.7	9.4/9.4
Moisture Removal, Pints/Hr.	2.0	3.0	3.5	2.8	4.6	10.0	12.0	2.8	4.6	10.0
Room Side Air Circulation, CFM	260	300	325	275	350	390	725	275	350	390
Sleeve	S	S	S	S	M	M	L	S	M	M
Net Weight	106	112	116	112	140	152	212	113	141	153
Energy Star	Yes	Yes	No	Yes	Yes	Yes	No	No	No	No
Cord Length, ft.	6	6	6	4	4	4	4	4	4	4
Circuit Rating, Breaker or Fuse	125V - 15A	125V - 15A	125V - 15A	250V - 15A	250V - 15A	250V - 20A	250V - 30A	250V - 20A	250V - 30A	250V - 30A
Type Plug	A	A	A	B	B	C	D	C	D	D

**Kühl Units**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	86501	SS10M10 10000 BTU 410A 115V WINDOW A/C	—	—
1	EA	86502	SS12M10 12000 BTU 410A 115V WINDOW A/C	—	—
1	EA	86504	SS14M10 14000 BTU 410A 115V WINDOW A/C	—	—
1	EA	86503	SS12M30A 12000 BTU 410A 230/208V WINDOW A/C	—	—
1	EA	86505	SM18M30 18000 BTU 410A 230/208V WINDOW A/C	—	—
1	EA	86506	SM24M30 24000 BTU 410A 230/208V WINDOW A/C	—	—
1	EA	86507	SL36M30 36000 BTU 410A 230/208V WINDOW A/C	—	—

**Kühl Units with Electric Heat**

1	EA	86508	ES12M33A 12000 BTU AND 3KW 410A 230/208V WINDOW A/C	—	—
1	EA	86509	EM18M34 18000 BTU AND 4KW 410A 230/208V WINDOW A/C	—	—
1	EA	86510	EM24M34 230/208V R410A WINDOW A/C	—	—



## Kühl Series Room Unit Air Conditioners

### Building Energy Management Capabilities



- Robust, commercial grade fan motor runs at a lower temperature than smaller fan motors, which prevents the unit from overheating and contributes to longer life.
- Aluminum rear grille protects unit from damage and vandalism.
- Aluminum endplates prevent rust from running down the sides of buildings.
- High-tech fins have sine wave, lanced louvers that increase energy efficiency by increasing surface area for heat exchange.
- High efficiency compressors that create smooth, quiet power.
- Extra thick rubber grommets absorb motion and sound to reduce unwanted noise.
- Built-in programmable 7 day thermostat.
- 4 cooling and 4 fan-only speeds.
- 8-way air flow control.
- Unit can be wired to a wall thermostat for easy access to controls when unit is installed where it is not easily accessible.



Plug Type A:125 Volt 15 Amp

Plug Type B:250 Volt 15 Amp

Plug Type C:250 Volt 20 Amp

Plug Type D:250 Volt 30 Amp

Sleeve	Dimensions (H x W) (In.)	Depth Hood to Louvers (In.)	Minimum Extension into Room (In.)	Minimum Extension Outside (In.)	Minimum Window Width (In.)	Maximum Window Width (In.)	Thru-the-wall Finished Hole Height (In.)	Thru-the-wall Finished Hole Width (In.)
Q	14 x 19-3/4	8-1/2	5-1/2	10-3/4	22	42	14-1/4	20
S	15-15/16 x 25-15/16	8-3/4	5-3/4	16-15/16	27-3/8	42	16-3/16	26-3/16
M	17-15/16 x 25-15/16	8-3/4	5-3/4	16-15/16	27-3/8	42	18-3/16	26-3/16
L	20-3/16 x 28	16-1/2	5-3/8	18-15/16	29-7/8	42	20-3/8	28-1/4

Model No.	BTU	Htg BTU	Volts	EER	Energy Star	Cool Amps	Cooling Watts	Heating Amps	Heating Watts	Moisture Removal Pints/Hr.	CFM	Sleeve	Ship. Weight (Lbs.)
<b>Kühl</b>													
SQ08N10	7,500	-	115	10.7	Yes	6.1	700	-	-	1.2	240	Q	84
SS10N10	9,500	-	115	11.2	Yes	7.7	848	-	-	2	260	S	136
SS12N10	12,000	-	115	11.2	Yes	10	1071	-	-	3	300	S	136
SS14N10	14,000	-	115	9.7	-	12	1444	-	-	3.5	325	S	133
SS12N30	11,500/11,200	-	230/208	11.4	Yes	4.8/4.9	1055/1027	-	-	2.8	275	S	134
SS18N30	17,500/17,200	-	230/208	10.7	Yes	7.4/8	1635/1607	-	-	4.6	350	M	158
SM24N30	23,500/23,300	-	230/208	9.4	Yes	11.2/11.9	2500/2479	-	-	10	390	M	167
SL36N30	36,000/35,700	-	230/208	8.5	-	19/20.5	4235/4200	-	-	12	725	L	227
<b>Kühl + Electric Heat</b>													
ES12N33	11,500/11,200	10,700/8,900	230/208	11.4	N/A	4.8/4.9	1055/1027	16/14.7	3500/2900	2.8	275	S	128
EM18N34	17,500/17,200	13,000/10,600	230/208	10.7	N/A	7.4/8	1635/1617	19.5/17	4200/3500	4.6	350	M	158
EM24N34	23,500/23,300	13,000/10,600	230/208	9.4	N/A	11.2/11.9	2500/2479	19.5/17	4200/3500	10	390	M	166

### Kühl Units

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	86516	SQ08N10 7500 BTU 410A 115V WINDOW A/C	—	—
1	EA	86517	SS10N10 9500 BTU 410A 115V WINDOW A/C	—	—
1	EA	86518	SS12N10 12000 BTU 410A 115V WINDOW A/C	—	—
1	EA	86519	SS14N10 14000 BTU 410A 115V WINDOW A/C	—	—
1	EA	86520	SS12N30 11500/11200 BTU 410A 230/208V WINDOW A/C	—	—
1	EA	86521	SM18N30 17500/17200 BTU 410A 230/208V WINDOW A/C	—	—
1	EA	86522	SM24N30 23500/23300 BTU 410A 230/208V WINDOW A/C	—	—
1	EA	86523	SL36N30 36000/35700 BTU 410A 230/208V WINDOW A/C	—	—

### Kühl Units with Electric Heat

1	EA	86524	ES12N33 11500/11200 BTU 410A 230/208V WINDOW A/C	—	—
1	EA	86525	EM18N34 17500/17200 BTU 410A 230/208V WINDOW A/C	—	—
1	EA	86526	EM24N34 23500/23300 BTU 410A 230/208V WINDOW A/C	—	—

**FRIEDRICH ZoneAire® Portable Air Conditioners**



- Ideal for supplemental and emergency cooling for homes, offices, workshops, garages, sunrooms and dorms.
- Fast cooling with dual hose exhaust
- Bucketless design features self-evaporative condensate system
- 24 hour timer with remote control
- 3 operational settings: cooling, dehumidify, and fan only

Model No.	BTU	EER	Net Weight (Lbs.)	Volts	Cooling Amps	Circuit Breaker Rating
P09B	9300	9.4	80	115	10.8	125V-15A
P12B	11600	8.8	86	115	11.5	125V-15A

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	86511	P09B 9000 BTU 115V PORTABLE A/C R-410A	—	—
1	EA	86512	P12B 12000 BTU 115V PORTABLE A/C R-410A	—	—

**Koldwave Kompac Water Cooled Air Conditioners**



Koldwave portable air conditioners provide emergency, spot or supplemental cooling where and when you need it. The water-cooled Kompac units use water instead of outdoor air to reject heat. Only a small amount of water is needed as the unit has a water regulating valve to conserve water usage.

- Sleek cabinet design internally insulated with fiberglass insulation
- control head pressure and conserve water
- Forward-curved fan with direct drive motor
- Permanent washable features
- High efficiency scroll compressor
- Plate-fin evaporator coil
- Coaxial copper condenser coil
- Sealed condensate pump removes condensate automatically



Model No.	BTUs	Voltage	Amps
5WK14BEA1AAA0	14,000	115/1/605	11.6
5WK18BGA1AAA0	18,000	230/1/60	6.6
5WK26BGA1AAA0	26,000	230/1/60	10

**Air Conditioners**

Use with Bercor	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2
66524	1	EA	63913	5WK14BEA1AAA0 14000BTU 1T 115V 1PH PORTABLE A/C R-410A	—	—
66524	1	EA	63914	5WK18BGA1AAA0 18000BTU 1.5TON 230V 1PH PORTABLE A/C R-410A	—	—
63320	1	EA	63915	5WK26BGA1AAA0 26000BTU 2TON 230V 1PH PORTABLE A/C R-410A	—	—

**Accessories**

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
All 5WK Models	1	EA	65527	SA-057-A-0023 115V CONDENSATE PUMP	—
5WK14, 18	1	EA	66524	99.0005.12 20FT HOSE KIT	—
All 5WK Models	1	EA	66525	88SA040-0028 4IN NOZZLE KIT ASSEMBLY	—
5WK26	1	EA	63320	88-SA076-3505 20 FT HOSE KIT W/PLASTIC CONNECTORS FOR 5WK26	—
All 5WK Models	1	EA	81244	88SA057-0025 120/240V CONDENSATE PUMP ASSEMBLY	—



## HDE Series Industrial Air Conditioners



- 10 fin per inch evaporator coil.
- Coils are coated with a baked on corrosion resistant coating.
- Service doors that are removable without the use of a tool.
- Scroll compressor.
- 3-Phase voltage.
- Totally enclosed blower motor.
- A stainless steel drain pan is used to prevent rusting.
- High and low pressure switches are used to protect other costly components from damage.
- Cabinet uses 16 gauge G-90 galvanized steel.

Model	Capacity*	CFM**	Voltage (Hz)	FLA	Weight	Dimensions (H x W x D) (In.)
SVWC3	36,000	1,200	460-3	12/13	550	73-1/2 x 42 x 23
SVWC5	60,000	2,000	460-3	15/13	550	73-1/2 x 42 x 23
SVWC5	60,000	2,000	230-3	45	550	73-1/2 x 42 x 23
SVWC8	96,000	3,200	460-3	15/21	810	75-1/2 x 55 x 29
SVWC10	120,000	4,000	460-3	15/21	905	75-1/2 x 55 x 29
SVWC15	180,000	TBA	460-3	TBA	TBA	TBA
SVWC20	240,000	TBA	460-3	TBA	TBA	TBA

\* BTUH @ Max 85 degree entering water to condenser, 80/67 evaporator.

\*\* CFM rating @ .5"sp.

### R-22/R-407C Air Conditioners

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	63755	SVWC3-81HDE 3 TON 460 VOLT WATER COOLED A/C	—
1	EA	63759	SVWC5-83HDE 5 TON 208/230 3 PHASE WATER COOLED A/C	—

### R-134a Air Conditioners

1	EA	89200	SVWC3-SC-51HDE 3 TON 460V 3PH R-134A WATER COOLED A/C	—
1	EA	89204	SVWC5-SC-51HDE 5 TON 208/230V 3PH R-134A WATER COOLED A/C	—
1	EA	89201	SVWC5-SC-51HDE 5 TON 460V 3PH R-134A WATER COOLED A/C	—
1	EA	89202	SVWC8-SC-51HDC 7.5 TON 460V 3PH R-134A WATER COOLED A/C	—
1	EA	89203	SVWC10-SC-51HDE 10 TON 460V 3PH R-134A WATER COOLED A/C	—
1	EA	89205	SVWC15-SC-51HDE 15 TON 460V 3PH R-134A WATER COOLED A/C	—
1	EA	89206	SVWC20-SC-51HDE 20 TON 460V 3PH R-134A WATER COOLED A/C	—





## Industrial Econo Severe Duty Condensers and Air Handlers



### Condensers

- Heresite coated
- 8-10 fins per inch
- Low ambient VFD
- ICC controls
- Maneurop compressor

### Air Handlers

- Up to 3/4 in. static pressure
- Belt drive
- Vertical

### R-22/R-407C Condensers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	63760	CA3E-41LA 3 TON ECONO SEVERE DUTY CONDENSER	—
1	EA	63761	CA5E-81LA 5 TON ECONO SEVERE DUTY CONDENSER	—
1	EA	63762	CA7.5E-41LA 7.5 TON ECONO SEVERE DUTY CONDENSER	—
1	EA	63763	CA10E-81LA 10 TON ECONO SEVERE DUTY CONDENSER	—

### R-134a Condensers

1	EA	89207	CA3E-SC-51LA 3 TON R-134A ECONO SEVERE DUTY CONDENSER	—
1	EA	89208	CA5E-SC-51LA 5 TON R-134A ECONO SEVERE DUTY CONDENSER	—
1	EA	89209	CA7.5E-SC-51LA 7.5 TON R-134A ECONO SEVERE DUTY CONDENSER	—
1	EA	89210	CA10E-SC-51LA 10 TON R-134A ECONO SEVERE DUTY CONDENSER	—

### R-22/R-407C Air Handlers

1	EA	63769	AV5-81HDMC 5 TON 460 VOLT VERTICAL AIR HANDLER	—
1	EA	63770	AV7.5-41HDMC 7.5 TON 460 VOLT R-22 VERTICAL AIR HANDLER	—
1	EA	63773	AV10-81HDMC 10 TON 460 VOLT VERTICAL AIR HANDLER	—

### R-134a Air Handlers

1	EA	89211	AV5-51HDMC 5 TON 460V 3PH R-134A VERTICAL AIR HANDLER	—
1	EA	89212	AV7.5-51HDMC 7.5 TON 460V 3PH R-134A VERTICAL AIR HANDLER	—
1	EA	89213	AV10-51HDMC 10 TON 460V 3PH R-134A VERTICAL AIR HANDLER	—
1	EA	89214	AV15-51HDMC 15 TON 460V 3PH R-134A VERTICAL AIR HANDLER	—



Parts and Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	63724	010-00145 5KW 460/3/60 DUCT HEATER F/ SVWC3E	—
1	EA	63752	010-00148 10KW 460/3/60 DUCT HEATER F/ SVWC5E,8E,10E	—
1	EA	63753	010-00149 15KW 460/3/60 DUCT HEATER F/ SVWC5E,8E,10E	—
1	EA	90500	034-00001 CRIMPING PLIERS EZ CLIP HAND TOOL FOR 4-12 HOSE FTGS	—
1	EA	90501	034-00002 CRIMPER, HOSE, EZ CLIP HAND TOOL FOR 16 HOSE	—
1	EA	90502	034-00003 CUTTER TOOL FOR GH134 HOSE.	—
1	EA	90503	034-00004 FIELD REPAIR KIT FOR #6-#12 GH134 HOSE	—
100	FT	90504	034-04000 HOSE #4 FC505-4, AEROQUIP, MULTI REF.	—
1	EA	90505	034-04001 CAGE #4 1F40105-04C, AEROQUIP	—
1	EA	90506	034-04002 CLIP #4 1F40104-04C, AEROQUIP	—
1	EA	90507	034-04003 STRT FTG#4 FJ3731-0404S EZ CLIP FEM JIC 37 DEG FLARE	—
1	EA	90508	034-04004 90 FTG#4 EJ3533-01-0404S EZ CLIP FEM JIC 37 DEG FLARE	—
1	EA	90509	034-04005 45 FTG#4 EJ3534-01-0404S EZ CLIP FEM JIC 37 DEG FLARE	—
100	FT	90510	034-06000 #6 HOSE GH134-6, AEROQUIP, MULTI REF	—
1	EA	90511	034-06001 #6 CAGE 1F40105-06C, AEROQUIP	—
1	EA	90512	034-06002 #6 CLIP 1F40104-06C, AEROQUIP	—
1	EA	90513	034-06003 STRT FTG#6 FJ3731-0606S EZ CLIP FEM JIC 37 DEG FLARE	—
1	EA	90514	034-06004 90 FTG#6 EJ3533-02-0606S EZ CLIP FEM JIC 37 DEG FLARE	—
1	EA	90515	034-06005 90 FTG #6/8 EJ3533-02-0606S EZ CLIP FEM JIC 37 DEG FLARE	—
1	EA	90516	034-06006 45 FTG #6 EJ3534-02-0606S EZ CLIP FEM JIC 37 DEG FLARE	—
1	EA	90517	034-06007 45 FTG #6/8 EJ3534-03-0608S EZ CLIP FEM JIC 37 DEG FLARE	—
1	EA	90518	034-06008 SPICER FITTING #6 FJ3045-0606S, AEROQUIP	—
100	FT	90519	034-08000 #8 HOSE GH134-8, AEROQUIP, MULTI REF	—
1	EA	90520	034-08001 #8 CAGE 1F40105-08C, AEROQUIP	—
1	EA	90521	034-08002 #8 CLIP 1F40104-08C, AEROQUIP	—
1	EA	90522	034-08003 STRT FTG#8 FJ3731-0808S EZ CLIP FEM JIC 37 DEG FLARE	—
1	EA	90523	034-08004 90 FTG#8 EJ3533-04-0808S EZ CLIP FEM JIC 37 DEG FLARE	—
1	EA	90524	034-08005 45 FTG#8 EJ3534-04-0808S EZ CLIP FEM JIC 37 DEG FLARE	—
1	EA	90525	034-08006 SPLICER FITTING #8 FJ3045-0808S, AEROQUIP	—
100	FT	90526	034-10000 #10 HOSE GH134-10, AEROQUIP, MULTI REF	—
1	EA	90527	034-10001 #10 CAGE 1F40105-10C, AEROQUIP	—
1	EA	90528	034-10002 #10 CLIP 1F40104-10C, AEROQUIP	—
1	EA	90529	034-10003 STRT FTG#10 FJ3731-1010S EZ CLIP FEM JIC 37 DEG FLARE	—
1	EA	90530	034-01004 90 FTG #10 EJ3533-05-1010S EZ CLIP FEM JIC 37 DEG FLARE	—
1	EA	90531	034-10005 45 FTG #10 EJ3534-05-1010S EZ CLIP FEM JIC 37 DEG FLARE	—
1	EA	90532	034-10006 #10 SPLICER FITTING FJ3045-1010S, AEROQUIP	—
100	FT	90534	034-12000 #12 HOSE GH134-12, AEROQUIP, MULTI REF	—
1	EA	90535	034-12001 #12 CAGE 1F40105-12C, AEROQUIP	—
1	EA	90536	034-12002 #12 CLIP 1F40104-12C, AEROQUIP	—
1	EA	90537	034-12003 STRT FTG#12 FJ3731-1212S EZ CLIP FEM JIC 37 DEG FLARE	—
1	EA	90538	034-12004 90 FTG #12 EJ3533-06-1212S EZ CLIP FEM JIC 37 DEG FLARE	—
1	EA	90539	034-12005 45 FTG #12 EJ3534-06-1212S EZ CLIP FEM JIC 37 DEG FLARE	—
1	EA	90540	034-12006 #12 SPLICER FITTING FJ3045-1212S, AEROQUIP	—
100	FT	90541	034-16000 #16 HOSE GH134-16, AEROQUIP, MULTI REF	—
1	EA	90542	034-16001 #16 CAGE 1F40105-16C, AEROQUIP	—
1	EA	90543	034-16002 #16 CLIP 1F40104-16C, AEROQUIP	—
1	EA	90544	034-16003 STRT FTG#16 FJ3731-1616S EZ CLIP FEM JIC 37 DEG FLARE	—
1	EA	90545	034-16004 90 FTG #16 EJ3533-07-1616S EZ CLIP FEM JIC 37 DEG FLARE	—
1	EA	90546	034-16005 45 FTG #16 EJ3534-07-1616S EZ CLIP FEM JIC 37 DEG FLARE	—
1	EA	90547	034-16006 #16 SPLICER FITTING FJ3045-1616S, AEROQUIP	—
1	EA	63810	189-00007-AM WEATHERHOOD ASSEMBLY FOR 7.5/10 TON ECONO CONDENSOR	—
1	EA	63764	189-00050 3 & 5 TON PLENUM ASSEMBLY FOR W/C PKG	—
1	EA	63767	189-00053 8 & 10 TON PLENUM ASSEMBLY FOR W/C PKG	—
1	EA	63766	189-00054(00082) 3 & 5 TON FILTER RACK W/DOOR FOR W/C PKG	—
1	EA	63768	189-00083 8 & 10 TON FILTER RACK W/DOOR FOR W/C PKG	—
1	EA	63807	189-00086 SPACER F/ SVWC3E,5E	—
1	EA	63809	189-00087 SPACER F/ SVWC8E,10E	—
1	EA	63819	MBH4000 4KW 240V 1PH DC HEATER	—

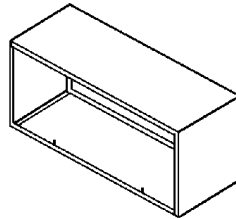
*Comfort-Aire* Comfort-Aire Parts

Fits the Following Units	Vendor	Comfort-Aire Part No.	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
—	—	8403B-0065A	1	EA	63934	8403B-0065A C17-9004-00 STAT	—
—	—	8403C-0182A	1	EA	63935	8403C-0182A STAT	—
—	—	8405C-0050A	1	EA	64175	8405C-0050A SWITCH	—
WT-183HE	Tec	8000-599	1	EA	63899	AB5519G 230-1 8000-599 COMPRESSOR (8000-901)	—
WO121, WR213	Tec	8000-400	1	EA	63990	AB5524F 230-1 8000-400 COMPRESSOR (8000-906)	—
—	Tec	8000-444	1	EA	63924	AH5534E 230-3 8000-444 COMPRESSOR	—

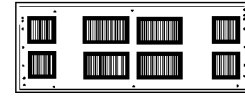
# Amana. Packaged Terminal Air Conditioners



Packaged Terminal Air Conditioner



Insulated Metal Wall Sleeve



Standard Aluminum Grille

The Amana delivers application flexibility and versatility in zoned heating and cooling applications. The unit is quiet and dependable and has been built to industry-accepted dimensions in height, width, and depth. Features include remote thermostat interface and freeze protection.

Ideal for any application requiring individual zone heating and cooling such as apartments/condos, office buildings, residential additions, hotels/motels, schools, and nursing homes/hospitals.

Cooling: 7,100 through 14,200 BTUH

Heating: 6,800 through 17,100 BTUH

EER: Up to 11.6

### Cooling/Electric Heat Models

Model No.	EER	Electric Heat (KW)	Voltage	Dimensions for Sleeve H x W x D (In.)	Shipping Weight (Lbs.)
PTC073E35A	11.7/11.9	3.5	230/208	16-1/16 x 42 x 14	114
PTC093E35A	11.2/11.7	3.5	230/208	16-1/16 x 42 x 14	118
PTC123E35A	10.5/10.4	3.5	230/208	16-1/16 x 42 x 14	123
PTC153E35A	9.9/9.9	3.5	230/208	16-1/16 x 42 x 14	134
PTC153E50A	9.9/9.9	5.0	230/208	16-1/16 x 42 x 14	134

### Cooling/Electric Heat Models

Model No.	EER	Electric Heat (KW)	Voltage	Dimensions for Sleeve H x W x D (In.)	Shipping Weight (Lbs.)
PTC073E35A	11.7/11.9	3.5	230/208	16-1/16 x 42 x 14	114
PTC093E35A	11.2/11.7	3.5	230/208	16-1/16 x 42 x 14	118
PTC123E35A	10.5/10.4	3.5	230/208	16-1/16 x 42 x 14	123
PTC153E35A	9.9/9.9	3.5	230/208	16-1/16 x 42 x 14	134
PTC153E50A	9.9/9.9	5.0	230/208	16-1/16 x 42 x 14	134

### Packaged Terminal Air Conditioners—R-410A

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83500	PTC073E35A XXXX 7600 BTU 208/230V 3.5KW PTAC - R410A	—
1	EA	83501	PTC093E35A XXXX 8700 BTU 208/230V 3.5KW PTAC - R410A	—
1	EA	83502	PTC123E35A XXXX 11500 BTU 208/230V 3.5KW PTAC - R410A	—
1	EA	83503	PTC153E35A XXXX 14000 BTU 208/230V 3.5KW PTAC - R410A	—
1	EA	83504	PTC153E50A XXXX 14000 BTU 208/230V 5 KW PTAC - R410A	—

### Accessories and Service Parts

1	EA	67175	WS900E 42"X16" INSUL WALL SLEEVE (D)	—
1	EA	67176	SGK01B STD STAMP ALUM OUTDOOR GRILLE	—
1	EA	67797	22312903 208/230 VOLT 3.5 KW HEAT STRIP	—
1	EA	67798	22312904 208/230 VOLT 5 KW HEAT STRIP	—
1	EA	67802	RSKP0009 CONTROL BOARD FOR AMANA PTAC WAS -008	—
1	EA	67803	PWHK01B UNIVERSAL PTAC WIRING HARNESS KIT	—

NOTE: Also available in Heat Pumps and 265V Models.

# **Amana.** E Model Heat Pump Packaged Terminal Units



The new "E" Model Amana Heat Pump Package Terminal Unit can reduce energy bills up to 25% over older, high efficient Amana units. Amana engineers have made their electronic control board even more "state-of-the-art," which means increased heat pump run time and reduced heating watts by as much as 25% over their previous industry leading units to help you gain better control of your expenses.

### Industry Leading 1-5-5 Warranty

- 1-year full on the entire unit.
- 5-year full on the entire sealed system.
- 5-year functional parts warranty.

### Outstanding Energy Efficiencies

- EERs up to 11.6.
- COPs up to 3.3.
- Minimize electrical consumption and qualify for many rebates from power companies.

### Room Freeze Protection

Reduce broken water pipes or fixtures caused by freezing temperatures. When the unit senses 40° F, the fan and electric of hydronic heat are automatically activated.

### Large, Easy to Use Controls

No complex controls to confuse your guests and create phone calls for your manager. Controls are easy to read, understand, and activate.

### Extremely Quiet Operation

The unit's state of the art design and construction provide a quiet environment for guests.

### Heat Pump Models

Model No.	BTUH Cooling	EER	Reverse Cycle Heating BTUH	COP	Voltage
PTH073E35A	7,600/7,500	11.7/12.1	6,800/6,800	3.3/3.3	230/208
PTH093E35A	9,000/8,900	11.7/11.6	8,300/8,100	3.3/3.3	230/208
PTH123E35A	11,500/11,100	10.5/10.4	10,900/10,500	3.1/3.1	230/208
PTH153E**A	14,000/13,900	9.6/9.5	13,500/13,300	2.9/2.9	230/208

**NOTE:** The asterisks (\*\*) in the model number are the electric heat designator; either no-heat is indicated or one of the standard heater selections from 2.0 kW to 5.0 kW in 230V or 265V.

### Packaged Terminal Units—R-410A

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83505	PTH073E35AXXX 7600 BTU 208/230V 3.5KW PTAC HEAT PUMP - R410A	—
1	EA	83506	PTH093E35AXXX 9000 BTU 208/230V 3.5KW PTAC HEAT PUMP - R410A	—
1	EA	83507	PTH123E35AXXX 11500 BTU 208/230V 3.5KW PTAC HEAT PUMP - R410A	—
1	EA	83508	PTH153E35AXXX 14000 BTU 208/230V 3.5KW PTAC HEAT PUMP - R410A	—
1	EA	83509	PTH153E50AXXX 14000 BTU 208/230V 5KW PTAC HEAT PUMP - R410A	—

### Drain Kit

1	EA	67178	DK900D AMANA PTAC DRAIN KIT	—
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# Aprilaire® 1700 Series Whole-House Dehumidifiers



1710A



1730A



1750A/1770A

The Aprilaire 1700 Series whole-house dehumidifiers work throughout your entire home. They removes 50% more water per kilowatt hour than leading portable dehumidifiers. They also feature truly automatic control, so there's never a need to manually control the dehumidifier.

- Provide three times the moisture removing capacity of leading portable dehumidifiers—up to 90 pints or 11.25 gallons per day. No messy tanks to empty and clean.
- Automatically sense moisture levels and maintain optimum humidity levels in the home and run only when needed.
- Switch automatically between whole-house dehumidification when the central air-conditioning system is running, and localized dehumidification when the air-conditioning isn't running.
- Convertible from whole-home to localized application—solves excess moisture issues where needed—most crawl spaces, attics, and basements.
- Can be operated manually to monitor and control moisture levels in specific locations.

## Dehumidifiers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	70052	1710A 90 PINTS/DAY DEHUMIDIFIER	—
1	EA	70028	1730A 65 PINT DEHUMIDIFIER	—
1	EA	70050	1750A 90 PINTS/DAY DEHUMIDIFIER	—
1	EA	70051	1770A 150 PINTS/DAY DEHUMIDIFIER	—

## Accessories

1	EA	70017	6508 NORMALLY CLOSED CONTROL DAMPER	—
1	EA	70018	6608 NORMALLY OPEN CONTROL DAMPER	—
1	EA	70019	8027 24 VOLT MODEL 1700 POWER ADAPTER	—

# Honeywell DR65A Whole-House Dehumidifier



**Increased Comfort.** Automatically senses excess moisture and works to lower humidity levels throughout your entire home.

**Whole-House.** More effective and less expensive than portable, single-room dehumidifiers. No need to empty tanks. MERV 11 filter comes standard with the unit.

**DR65A Capacity.** Removes up to 65 pints of water from the home per day.

**Energy Savings.** Offers more moisture removal while using less energy by recovering energy generated in the moisture transfer between incoming and outgoing air streams.

**Easy To Use.** Set-it-and-forget-it control automatically provides optimum moisture removal and ventilation control. No need to change settings or make adjustments.

**Peace of Mind.** Lower humidity levels can help prevent the growth of mold and mildew.

## Dehumidifiers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	78169	DR65A1000/U WHOLE HOUSE DEHUMIDIFIER	—

## Accessories

4	EA	78171	50018994-001 1" MERV 11 FILTER FOR THE DR/DH90	—
1	EA	78172	50018995-001 10" BACK DRAFT DAMPER FOR THE DR/DH90	—
1	EA	78173	EARD6 6" AUTOMATED VENTILATION DAMPER FOR THE DR/DH 90	—

# Honeywell TrueDRY™ Dehumidification Systems



The TrueDRY™ Dehumidification Systems are integrated into your HVAC equipment. It can be used as a standalone solution to quietly remove moisture from specific areas, improve comfort and eliminate the need for maintenance. The TrueDRY™ uses R-410A refrigerant and conforms to EPA standards for refrigerants.

- MERV 11 filtration.
- Top or side-ducted exhaust
- Energy Star Rated
- 5 year warranty.

Model No.	Capacity (Pints)	Home Size	Application	Key Features	Refrigerant	Electrical Rating	Size (In.)
DR65A	65	2-3 ton system. Approx. 1,800 feet.	Smaller homes, condos, townhomes, crawlspaces, basements and attics	Compact Size, onboard control, intuitive wiring, easy access service panels, e-coated and coil	R-410A	110-120V, 5.2 amps, 60 Hz, grounded	Width: 15.5 Height: 17.25 Length without collars: 21 Length with collars: 28.5
DR90A	90	3-4 ton system. Approx. 2,800 feet.	Single homes, multi-family homes and larger homes	Built-in ventilation port, e-coated and coil	R-410A	110-120V, 6.3 amps, 60 Hz, grounded	Width: 14.25 Height: 19.25 Length without collars: 25.35 Length with collars: 32.35
DR120A	120	4-5 ton system. Approx. 3,600 feet.	Larger homes, light commercial	High capacity dehumidification, ventilation and air filtration e-coated and coil	R-410A	110-120V, 8.1 amps, 60 Hz, grounded	Width: 14.25 Height: 21.25 Length without collars: 25.35 Length with collars: 32.35

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	78260	DR65A2000 WHOLE HOUSE DEHUMIDIFIER	—
1	EA	78261	DR90A2000 WHOLE HOUSE DEHUMIDIFIER	—
1	EA	78262	DR120A2000 WHOLE HOUSE DEHUMIDIFIER	—

## FRIEDRICH Portable Dehumidifiers



- Top mount, digital touch controls
- Displays room temp and humidity %
- Automatic defrost cycle
- Continuous drainage operation with direct drain or with internal drain pump (50 and 70 pint models)
- Will operate down to 41° F and up to 95° F (25 pint operates up to 90° F)
- High efficiency Energy Star® models
- Built-in drain pump (50 and 70 pint models)
- Humidity setpoint from 30% to 90% RH
- °F/°C indicator
- Removable condensate bucket for stand alone operation with built-in float switch
- Washable, slide-out filter
- Built-in casters for easy mobility when moving from room to room
- Dual fan speed
- Convenient carrying handle on the bucket
- Plugs into standard 115V outlet
- Energy Star rated

Capacity Pints/Hour	Dimensions	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
25	21 x 13 x 6-1/4	1	EA	86513	D25D 25 PINT 410A PORTABLE DEHUMIDIFIER	—	—
50	23-1/8 x 14-1/2 x 11-3/4	1	EA	86514	D50D 50 PINT 410A PORTABLE DEHUMIDIFIER	—	—
70	23-1/8 x 14-1/2 x 11-3/4	1	EA	86515	D70D 70 PINT 410A PORTABLE DEHUMIDIFIER	—	—



## WHP Repair Parts

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	69060	550-1201 115V WHP CONDENSATE PUMP KIT	—
1	EA	69212	102-021 WHP 9/12 230 V MOTOR	—
1	EA	69213	102-045 WHP 15-36 230V MOTOR	—
1	EA	69214	240-2968 WHP REV B & C RELAY BOARD	—
1	EA	69216	240-3181 WHP REV C KEY PAD	—
1	EA	69217	550-618 WHP 9/12 REV C BLOWER WHEEL KIT	—
1	EA	69218	550-619 WHP 15/18 REV C BLOWER WHEEL KIT	—



## CHP Straight Cool Ceiling Mount Air Handler



- Standard cooling down to 60° F (outside temperature)
- 24 volt wall thermostat control
- Fresh air knockout
- Anti short cycle protection
- 208/230 standard voltage with 1.5kw heat strip\

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62015	CHP12D301AA0A0A 18,000 BTU CEILING AIR HANDLER - 5KW HT, WALL T-STAT	—
1	EA	62019	550001222 CHP SERIES - CONDENSATE PUMP FIELD INSTALLED 208/230V	—
1	EA	62020	550000339 CHP SERIES TRIM KIT FOR 12,000-24,000 BTU MODELS	—



# S1C/S2C Straight Cool Condensers

## 1 and 2 Zone Models



- Standard cooling operation down to 60° F outside temperature for cooling only units, 32° F for heat pumps.
- Side discharge cabinet with durable injection molded base and enclosed compressor compartment for reduced noise.
- Coil ground clearance of 12" provides added protection from the environment year round.
- Front access to key components for ease of service.
- Industry standard R-22 refrigerant.
- Easy access connections for refrigerant gauges.
- Application flexibility with 100 ft. of interconnected refrigerant piping, supporting 35 ft. of lift.
- Corrosion resistant, powder-coated steel cabinet with coil protection.
- Factory installed Duratec Performance Package (09–12 only) for added compressor protection.
- Two circuit machines have fully independent circuits with compressors on each circuit.
- Warranty: One year parts, five year compressor.

NOTE: S1H Single Zone Heat Pump (9,000–24,000 BTU/H) models also available. Call for information.

### Single Zone

Model	Cooling (Nom. BTU/H)	Heat Pump Capacity	Dimensions (In.)		
			L	H	D
S1C/S1H9	9,000	8,200	24	36	15
S1C/S1H2	12,000	10,200	24	36	15
S1C/S1H8	18,000	16,400	32	36	15
S1C/S1H4	24,000	20,600	32	40	15
S1C3	30,000	N/A	38	44	15
S1C6	36,000	N/A	38	48	15

### Two Zone

Model	Cooling (Nom. BTU/H)	Dimensions (In.)		
		L	H	D
S2C9 9	18,000	32	36	15
S2C 9 2	21,000	32	40	15
S2C 2 2	23,000	32	40	15

### S1C Condensers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62021	S1CA9000D00 9,000 BTU SINGLE ZONE STRAIGHT CL CONDENSER 208/230V	—
1	EA	62028	S1CA2000D00 12,000 BTU SINGLE ZONE STRAIGHT CL CONDENSER 208/230V	—
1	EA	62029	S1CA8000D00 18,000 BTU SINGLE ZONE STRAIGHT CL CONDENSER 208/230V	—
1	EA	62030	S1CA4000D00 24,000 BTU SINGLE ZONE STRAIGHT CL CONDENSER 208/230V	—
1	EA	62031	S1CA3000D00 30,000 BTU SINGLE ZONE STRAIGHT CL CONDENSER 208/230V	—
1	EA	62032	S1CA6000D00 36,000 BTU SINGLE ZONE STRAIGHT CL CONDENSER 208/230V	—

### S1C Optional Components

1	EA	62033	550001262 S1C SERIES LOW AMBIENT KIT FOR 9,000-12,000 BTU SYSTEMS	—
1	EA	62034	550001263 S1C SERIES LOW AMBIENT KIT FOR 18,000-36,000 BTU SYSTEMS	—

### S2C Condensers

1	EA	62035	S2SA9900D00 2-ZONE STRAIGHT COOL CONDENSERS (2) 9,000 BTU CONN.	—
1	EA	62036	S2SA9200D00 2-ZONE STRAIGHT COOL CONDENSER 1-9,000 / 1-12,000	—
1	EA	62037	S2CA2200A00 2-ZONE STRAIGHT COOL CONDENSER (2)12,000 BTU CONN.	—

### S2C Optional Component

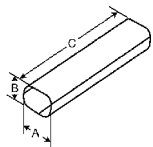
1	EA	62038	550001262 S2C SERIES LOW AMBIENT KIT FOR 9,000-12,000 BTU SYSTEMS	—
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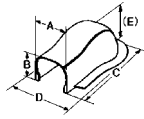


# Lineset Cover System

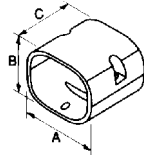
HVAC Advanced Products Division



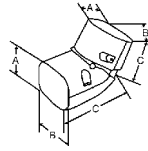
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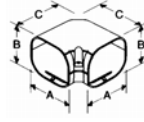
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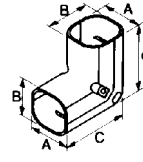
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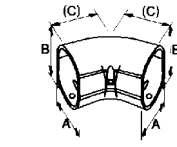
NZ-75



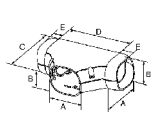
NE-75, NE-100,  
NE-140



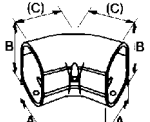
NC-75, NC-100,



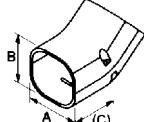
NW-75, NW-140



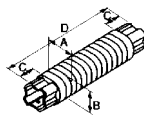
NT-75, NT-140



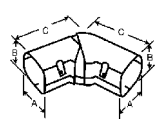
NM-75, NM-100



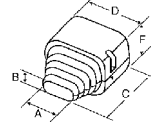
NU-75, NU-100



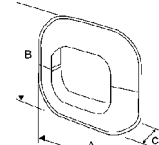
NF-75



NX-75



NR-75



NK-75, NK-100

Put a professional finish on air conditioning installation with an easy-to-install modular system that beautifies exteriors and protects linesets, drainlines, and wiring.

- Available in four sizes: 2-1/4", 3", 4", and 6" tubes.
- 3", 4" sizes are stocked.
- Snap-on covers and a full selection of couplings, elbows, T-joints, caps, and more for any application, complex or simple.

- High-quality PVC with UV inhibitors for outdoor service in all weather conditions.
- Can be painted with most house paints to match exterior decors.
- Not just for HVAC. Hide any exterior cabling, piping, or wiring.
- Use it indoors, too! Meets UL94 for interior applications.

Bercor Number	Product	Dimensions (In.)				
		A	B	C	D	E
<b>Split Line Tube</b>						
67575	CD-75	2-15/16	2-7/16	78-3/4		
67605	CD-100	3-7/8	2-11/16	78-3/4		
67617	CD-140	5-7/16	3-1/16	78-3/4		
<b>Simple Wall Cover</b>						
67606	NY-75	3-1/4	2-11/16	8-1/4	3-11/16	3-1/4
67607	NY-100	4-3/16	2-15/16	9-1/8	4-11/16	3-3/4
<b>Socket/Coupling Joins Two Pieces of Tubing</b>						
67608	NS-75	3-1/4	2-11/16	3-1/8		
67609	NS-100	4-3/16	2-15/16	3-1/8		
76719	NS-140	5-3/4	3-3/8	3-1/8		
<b>Universal Elbow (Vertical) Adjustable 45 to 90 Degree</b>						
67612	NZ-75	3-3/8	2-11/16	4-13/16		
<b>90 Degree Elbow (Horizontal)</b>						
67613	NE-75	3-1/4	2-11/16	5-9/16		
67614	NE-100	4-3/16	2-15/16	6-5/16		
67620	NE-140	5-3/4	3-3/8	7-7/8		
<b>90 Degree Elbow (Vertical)</b>						
67615	NC-75	3-1/4	2-11/16	4-7/8		
67616	NC-100	4-3/16	2-15/16	5-5/16		
67628	NC-140	5-3/4	3-3/8	5-7/8		
<b>Wall Cover/ Inlet</b>						
67640	NW-75	3-1/4	2-11/16	8-1/4	3-11/16	3-1/4
67647	NW-100	4-3/16	2-15/16	9-1/8	4-11/16	3-3/4
67618	NW140	5-3/4	3-3/8	11-1/4	6-1/4	4-1/8
<b>T-Joint</b>						
67649	NT-75	3-1/4	2-11/16	4-3/4	6-5/16	
67650	NT-100	4-3/16	2-15/16	6-5/16	8-7/16	1-3/8
67621	NT-140	5-3/4	3-3/8	7-7/8	10	1-3/8
<b>45 Degree Elbow (Horizontal)</b>						
67622	NM-75	3-1/4	2-11/16	2-15/16		
67623	NM-100	4-3/16	2-15/16	3-5/16		

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Bercor Number	Product	Dimensions (In.)				
		A	B	C	D	E
<b>45 Degree Elbow (Vertical)</b>						
67624	NU-75	3-1/4	2-11/16	2-13/16		
67625	NU-100	4-3/16	2-15/16	3-1/4		
<b>Flexible Joint (Polypropylene material) available in nominal 2-foot and 3-foot lengths</b>						
67634	NF-75	3	2-1/2	2-3/8	21-5/8	
67691	NF-100	4	2-3/4	2-15/16	31-1/2	
<b>Universal Elbow (Horizontal) Adjustable 45 to 90 Degree</b>						
67641	NX-75	3-1/4	2-11/16	6		
67663	NX-100	4-3/16	2-15/16	7-5/8		
<b>End Socket (Can be Cut to Accommodate Various Lineset Combinations)</b>						
67652	NR-75	2-1/16	1-3/16	3-7/8	3-1/4	2-11/16
<b>Wall Entry Fitting</b>						
67679	NK-75	4-15/16	4-1/2	5/8		
67683	NK-100	6-7/8	5-11/16	5/8		
67688	NK-140	8-11/16	7-1/16	5/8		
<b>Variant Socket/Reducer</b>						
67662	NJ-75/100	3-3/8	2-13/16	3-1/8	4-3/16	2-15/16
<b>Corner Cap/Soffit Entry Fitting</b>						
67671	NA-75	3-5/16	2-3/4	2-5/8	4-7/8	4-15/16
67677	NA-100	4-5/16	3	2-5/8	5-7/8	5-1/2

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	EA	67575	CD-75 SPLIT LINE TUBE LINE HIDE	—
5	EA	67605	CD-100 SPLIT LINE TUBE LINE HIDE	—
5	EA	67617	CD-140 SPLIT LINE TUBE LINE HIDE	—
5	EA	67671	NA-75 CORNER CAP SOFFIT ENTRY LINE-HIDE	—
5	EA	67677	NA-100 CORNER CAP SOFFIT ENTRY LINE-HIDE	—
10	EA	67615	NC-75 90 DEG VERT ELBOW LINE HIDE	—
5	EA	67616	NC-100 90 DEG VERT ELBOW LINE HIDE	—
5	EA	67628	NC-140 90 DEGREE EL VERTICAL LINE HIDE	—
5	EA	67613	NE-75 90 DEG HORIZ ELBOW LINE HIDE	—
5	EA	67614	NE-100 90 DEG HORIZ ELBOW LINE HIDE	—
5	EA	67620	NE-140 90 DEGREE EL HORIZONTAL LINE HIDE	—
10	EA	67634	NF-75 FLEXIBLE JOINT LINE HIDE	—
10	EA	67691	NF-100 FLEXIBLE JOINT LINE HIDE	—
5	EA	67662	NJ-75/100 VARIANT SOCKET / REDUCER LINE-HIDE	—
10	EA	67679	NK-75 WALL ENTRY FITTING LINE HIDE	—
10	EA	67683	NK-100 WALL ENTRY FITTING LINE HIDE	—
5	EA	67688	NK-140 WALL ENTRY FITTING LINE HIDE	—
10	EA	67622	NM-75 45 DEG HORIZ ELBOW LINE HIDE	—
5	EA	67623	NM-100 45 DEG HORIZ ELBOW LINE HIDE	—
10	EA	67652	NR-75 END SOCKET LINE HIDE	—
5	EA	67644	NR-100 END SOCKET LINE-HIDE	—
10	EA	67608	NS-75 COUPLING LINE HIDE	—
5	EA	67609	NS-100 COUPLING LINE HIDE	—
5	EA	67619	NS-140 SOCKET/COUPLING LINE HIDE	—
10	EA	67649	NT 75 LINE HIDE TEE	—
5	EA	67650	NT-100 T-JOINT LINE-HIDE	—
5	BOX	67621	NT-140 T JOINT LINE HIDE	—
10	EA	67624	NU-75 45 DEG VERT ELBOW LINE HIDE	—
5	EA	67625	NU-100 45 DEG VERT ELBOW LINE HIDE	—
10	EA	67640	NW-75 WALL COVER/INLET LINE HIDE	—
5	EA	67647	NW-100 WALL COVER INLET LINE-HIDE	—
5	EA	67618	NW140 WALL COVER/INLET LINE HIDE	—
10	EA	67641	NX-75 UNIVERSAL ELBOW LINE HIDE	—
5	EA	67663	NX-100 UNIVERSAL ELBOW LINE-HIDE	—
10	EA	67606	NY-75 SIMPLE WALL COVER LINE HIDE	—
5	EA	67607	NY-100 SIMPLE WALL COVER LINE HIDE	—
5	EA	67612	NZ-75 UNIVERSAL EL VERTICAL LINE HIDE	—



## Mini Split Line Sets

### 3/8" Insulation

- Both lines insulated
- Flare nuts on both ends



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
14	EA	54683	40680150B3B6 15FT 3/8S 1/4L 3/8 ID MINI SPLIT LINE SET	—
14	EA	54684	40880150B3B6 15FT 1/2S 1/4L 3/8 ID MINI SPLIT LINE SET	—
14	EA	54685	61080150B3B6 15FT 5/8S 3/8L 3/8 ID MINI SPLIT LINE SET	—
14	EA	54687	81280150B3B6 15FT 3/4S 1/2L 3/8 ID MINI SPLIT LINE SET	—
14	EA	54688	40680300B3B6 30FT 3/8S 1/4L 3/8 ID MINI SPLIT LINE SET	—
14	EA	54689	40880300B3B6 30FT 1/2S 1/4L 3/8 ID MINI SPLIT LINE SET	—
12	EA	54691	41080300B3B6 30FT 5/8S 1/4L 3/8 ID MINI SPLIT LINE SET	—
8	EA	54693	40680500B3B6 50FT 3/8S 1/4L 3/8 ID MINI SPLIT LINE SET	—
7	EA	54694	40880500B3B6 50FT 1/2S 1/4L 3/8 ID MINI SPLIT LINE SET	—
8	EA	54696	41080500B3B6 50FT 5/8S 1/4L 3/8 ID MINI SPLIT LINE SET	—
7	EA	54697	81280500B3B6 50FT 3/4S 1/2L 3/8 ID MINI SPLIT LINE SET	—

\* Non-stock items. Available by special order.



## Twin Tube Mini Split Line Sets

### 1/2" Insulation

Mini Split Line Sets with dual tube insulation are the convenient solution for labor savings and reduced waste. These time-saving kits are packaged with pre-insulated copper tube liquid lines and suction lines. As with our standard line sets, the factory installed seamless insulation reduces the risk of leaks and promotes energy efficiency, while options such as flared brass fittings offer a fast and flameless method of installation.

- Single piece insulation eliminates the need for taping the lines together
- Closed-cell construction ensures excellent thermal conductivity, and prevents mold and mildew
- 25/50 rating
- UL recognized at 700 PSI



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
14	EA	54617	40620150B3B8 15FT 3/8S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
12	EA	54620	40620300B3B8 30FT 3/8S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
8	EA	54623	40620500B3B8 50FT 3/8S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
14	EA	54618	40820150B3B8 15FT 1/2S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
12	EA	54621	40820300B3B8 30FT 1/2S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
7	EA	54624	40820500B3B8 50FT 1/2S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
1	EA	54626	40821000B3B8 100FT 1/2S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
12	EA	54614	41020150B3B8 15FT 5/8S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
8	EA	54615	41020300B3B8 30FT 5/8S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
7	EA	54616	41020500B3B8 50FT 5/8S 1/4L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
12	EA	54619	61020150B3B8 15FT 5/8S 3/8L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
7	EA	54622	61020300B3B8 30FT 5/8S 3/8L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
7	EA	54625	61020500B3B8 50FT 5/8S 3/8L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—
1	EA	54627	61021000B3B8 100FT 5/8S 3/8L 1/2 ID TWIN TUBE MINI SPLIT LINE SET	—



## R-410A Lineset Adapter

Adapter for charging mini split systems.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83051	AD87 R410A LINESET ADAPTER	—



## MUA/MSA Ductless Split Systems, Cooling Only

### R-410A, Wall Mount



Outdoor Unit



Indoor Unit

- Limited warranty: One year on parts and defects and six years on compressor
- Compact side discharge outdoor unit
- Zone control
- Wireless remote controller
- Automatic fan speed control
- Quiet operation: both indoor and outdoor units
- Auto restart following a power outage
- Self check function with onboard diagnostics
- Advanced microprocessor control

#### M-Series (R-410A): Cooling only MS/MSY Models

Outdoor Unit			MU-A09WA	MU-A12WA
Power Supply	V/Ph/Hz		115/1/60	115/1/60
Max. Fuse	A		15	20
Min. Ampacity	A		14	16
Weight	Lbs.		78	96
Capacities	Cooling	MBH	9.5	12.0
Energy Efficiency	SEER		13.0	13.0
Refrigerant Pipe Dimensions	Liquid	In.	1/4	1/4
	Gas	In.	3/8	1/2
	Max. Ht. Differential	Ft.	35	35
	Max. Length	Ft.	65	65
Dimensions	Indoor	H	11-3/4	11-3/4
		W	30-11/16	30-11/16
		D	8-1/4	8-1/4
	Outdoor	H	21-5/8	23-13/16
		W	31-1/2	33-7/16
		D	11-1/4	11-7/16
Inverter Technology		No	No	

Indoor Unit			MS-A09WA	MS-A12WA
Power Supply	V/Ph/Hz		115/1/60	115/1/60
Max. Fuse	A		15	15
Min. Ampacity	A		1.2	1.2
Weight	Lbs.		23	23
Sound (Lo-Med-Hi) (Cooling)	dB(A)		26/32/40	33/38/45
Airflow (Lo-Med-Hi)	Dry CFM		183-261-335	222-286-406
	Wet CFM		162-233-300	198-254-363
Moisture Removal	Pints/hour		2.7	3.2

#### Outdoor Units

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	65577	MU-A09WA 9,500 NONINVERTER COOLING ONLY M-SERIES OUTDOOR	—	—
1	EA	65586	MU-A12WA-1 12,000 NONINVERTER COOLING ONLY M-SERIES OUTDOOR	—	—

#### Indoor Units

1	EA	65576	MS-A09WA-1 9,500 NONINVERTER COOLING ONLY M-SERIES WALL	—	—
1	EA	65585	MS-A12WA-1 12,000 NONINVERTER COOLING ONLY M-SERIES WALL	—	—



# MUY/MSY, Ductless Split Systems, Cooling Only

## Inverter Driven, R-410A, Wall Mount



Outdoor Unit



Indoor Unit

- Limited warranty: One year on parts and defects and six years on compressor
- Compact side discharge outdoor unit
- Zone control
- Wireless remote controller
- Automatic fan speed control
- Quiet operation: both indoor and outdoor units
- Auto restart following a power outage
- Self check function with onboard diagnostics
- Advanced microprocessor control

Outdoor Unit			MUY-GE09NA	MUY-GE12NA	MUY-GE15NA	MUY-GE24NA
Power Supply	V/Ph/Hz		208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Min. Ampacity	A		12	12	12	17
Weight	Lbs.		66	77	80	117
Rated Capacity	Btu/h		9,000	12,000	14,000	22,000
Energy Efficiency	SEER		21	20.5	21	17.5
Pipe Dimensions	Liquid	In.	1/4	1/4	1/4	3/8
	Gas	In.	3/8	3/8	1/2	5/8
	Max. Ht. Differential	Ft.	40	40	40	50
	Max. Length	Ft.	65	65	65	100
Compressor	Model (Type)		DC Inverter-Driven		DC Inverter-Driven Twin Rotary	
Dimensions	W		31-1/2	31-1/2	31-1/2	33-1/16
	D		11-1/4	11-1/4	11-1/4	13
	H		21-5/8	21-5/8	21-5/8	33-7/16

Indoor Unit			MSY-GE09NA	MSY-GE15NA	MSY-GE15NA	MSY-GE24NA
Power Supply	V/Ph/Hz		208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Min. Ampacity	A		1.0	1.0	1.0	1.0
Weight	Lbs.		22	22	22	37
Sound (Quiet-Lo-Med-Hi-Super Hi)	dB(A)		19-22-30-37-43	26-32-38-44-49	28-33-38-44-49	34-40-49-51
Airflow (Quiet-Lo-Med-Hi-Super Hi)	Dry CFM		145-170-237-321-399	205-272-335-420-533	230-275-339-420-533	296-431-568-624
	Wet CFM		109-134-201-286-364	170-237-300-385-498	194-240-304-385-498	265-385-508-558
Moisture Removal	Pints/H		1.5	2.7	4.6	7.3
Dimensions	W		31-7/16	31-7/16	31-7/16	43-5/16
	D		9-1/8	9-1/8	9-1/8	10-1/4
	H		11-5/8	11-5/8	11-5/8	12-13/16

### Outdoor Units

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	89020	MUY-GE09NA 9,000 COOLING ONLY M-SERIES OUTDOOR	—	—
1	EA	89022	MUY-GE12NA 12,000 COOLING ONLY M-SERIES OUTDOOR	—	—
1	EA	89024	MUYGE15NA 15,000 COOLING ONLY M-SERIES OUTDOOR	—	—
1	EA	89138	MUY-GE24NA 22,500 COOLING ONLY M-SERIES OUTDOOR	—	—

### Indoor Units

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	89019	MSYGE09NA 9,000 COOLING ONLY M-SERIES WALL	—	—
1	EA	89023	MSYGE15NA 15,000 COOLING ONLY M-SERIES WALL	—	—
1	EA	89025	MSYGE18NA 17,200 COOLING ONLY M-SERIES WALL	—	—
1	EA	89137	MSY-GE24NA 22,500 COOLING ONLY M-SERIES WALL	—	—



# MUZ/MSZ Ductless Split System, Heat Pump

## Inverter Driven, R-410A, Wall Mount



Outdoor Unit



Indoor Unit

- Limited warranty: One year on parts and defects and six years on compressor
- Compact side discharge outdoor unit
- Zone control
- Wireless remote controller
- Automatic fan speed control
- Quiet operation: both indoor and outdoor units
- Auto restart following a power outage
- Self check function with onboard diagnostics
- Advanced microprocessor control

Outdoor Unit			MUZ-GE09NA	MUZ-FE09NA	MUZ-GE12NA	MUZ-FE12NA	MUZ-GE15NA	MUZ-GE18NA	MUZ-GE24NA	MUZ-D30NA	MUZ-D36NA
Power Supply	V/Ph/Hz	208-230/1/60									
Min. Ampacity	A	12	12	12	12	12	14	17	21	21	
Weight	Lbs.	66	80	77	80	80	119	117	141	141	
Rated Capacity	Cooling	Btu/h	9,000	9,000	12,000	12,000	14,000	17,200	22,000	30,700	33,200
	Heating at 47° F		10,900	10,900	14,400	13,600	18,000	21,600	23,200	32,600	35,200
	Heating at 17° F		–	–	–	–	–	–	14,000	19,500	21,800
Energy Efficiency	SEER	21	26	20.5	23	21	19.2	17.5	14.5	14.5	
Pipe Dimensions	Liquid	In.	1/4	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8
	Gas	In.	3/8	3/8	3/8	3/8	1/2	1/2	5/8	5/8	5/8
	Max. Ht. Differential	Ft.	40	40	40	40	40	50	50	50	50
	Max. Length	Ft.	65	65	65	65	65	100	100	100	100
Compressor	Model (Type)	DC Inverter-driven	DC Inverter-driven Twin Rotary	DC Inverter-driven	DC Inverter-driven Twin Rotary						
Dimensions	W	31-1/2	31-1/2	31-1/2	31-1/2	31-1/2	33-1/16	33-1/16	33-1/16	33-1/16	
	D	11-1/4	11-1/4	11-1/4	11-1/4	11-1/4	13	13	13	13	
	H	21-5/8	21-5/8	21-5/8	21-5/8	21-5/8	33-7/16	33-7/16	33-7/16	33-7/16	

Indoor Unit		MSZ-GE09NA	MSZ-FE09NA	MSZ-GE12NA	MSZ-FE12NA	MSZ-GE15NA	MSZ-GE18NA	MSZ-GE24NA	MSZ-D30NA	MSZ-D36NA
Power Supply	V/Ph/Hz	208-230/1/60								
Min. Ampacity	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Weight	Lbs.	22	27	22	27	22	22	37	40	40
Sound (Cooling) (Lo-Med-Hi-Super Hi-Powerful)	dB(A)	19-22-30-37-43	22-31-39-42	19-22-30-37-45	22-33-43-45	26-32-38-44-49	28-33-38-44-49	34-40-49-51	32-42-49	32-42-49
Sound (Heating) (Lo-Med-Hi-Super Hi-Powerful)	dB(A)	19-22-30-37-43	22-31-40-42	19-22-30-37-43	22-33-43-44	26-30-35-40-46	28-33-38-43-48	34-40-48-49	34-42-49	32-42-49
Airflow (Cooling) (Lo-Med-Hi-Super Hi-Powerful)	Dry CFM	145-170-237-321-399	162-226-339-381	145-170-237-321-399	162-226-381-410	205-272-335-420-533	230-275-339-420-533	296-431-568-624	389-639-848	389-639-848
	Wet CFM	109-134-201-286-364	144-202-307-343	109-134-201-286-364	144-202-350-367	170-237-300-385-498	194-240-304-385-498	265-385-508-558	350-576-763	350-576-763
Airflow (Heating) (Lo-Med-Hi-Super Hi-Powerful)	CFM	145-170-237-321-406	166-240-367-381	145-170-237-321-406	166-240-399-420	205-247-304-367-463	230-275-339-431-512	350-486-568-590	445-639-848	445-639-848
Moisture Removal	Pints/H	1.5	2.1	2.5	2.9	2.7	4.6	7.3	9.9	11.3
Dimensions	W	31-7/16	31-7/16	31-7/16	31-7/16	31-7/16	31-7/16	43-5/16	46-1/16	46-1/16
	D	9-1/8	10-1/8	9-1/8	10-1/8	9-1/8	9-1/8	10-1/4	11-5/8	11-5/8
	H	11-5/8	11-5/8	11-5/8	11-5/8	11-5/8	11-5/8	12-13/16	14-3/8	14-3/8

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**Outdoor Units**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	89030	MUZ-GE09NA 9,000 HEAT PUMP M-SERIES OUTDOOR	—	—
1	EA	89018	MUZ-FE09NA-1 9,000 HIGH-EFF H/P OUTDOOR UNIT	—	—
1	EA	89032	MUZ-GE12NA 12,000 HEAT PUMP M-SERIES OUTDOOR	—	—
1	EA	89016	MUZ-FE12NA-1 12,000 HIGH-EFF H/P OUTDOOR UNIT	—	—
1	EA	89034	MUZ-GE15NA-1 15,000 HEAT PUMP M-SERIES OUTDOOR	—	—
1	EA	89036	MUZ-GE18NA-1 17,200 HEAT PUMP M-SERIES OUTDOOR	—	—
1	EA	89136	MUZ-GE24NA 22,500 HEAT PUMP M-SERIES OUTDOOR	—	—

**Indoor Units**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	89029	MSZ-GE09NA-8 9,000 HEAT PUMP M-SERIES INDOOR WALL	—	—
1	EA	89017	MSZ-FE09NA-8 9,000 HIGH-EFF H/P INDOOR UNIT	—	—
1	EA	89031	MSZ-GE12NA-8 12,000 HEAT PUMP M-SERIES INDOOR WALL	—	—
1	EA	89015	MSZ-FE12NA-8 12,000 HIGH-EFF H/P INDOOR UNIT	—	—
1	EA	89033	MSZ-GE15NA-8 15,000 HEAT PUMP M-SERIES INDOOR WALL	—	—
1	EA	89035	MSZ-GE18NA-8 17,200 HEAT PUMP M-SERIES INDOOR WALL	—	—
1	EA	89135	MSZ-GE24NA 22,500 HEAT PUMP M-SERIES INDOOR WALL	—	—



# MXZ Multi-Zone Ductless/Ducted Systems

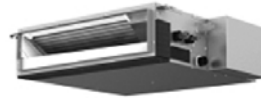
Inverter Driven; R-410A; Ceiling, Wall, or Floor Mount



MXZ Outdoor Unit



SEZ/PEAD Ducted Indoor Unit



MSZ Wall-Mounted Indoor Unit



MFZ Floor-Mounted Indoor Unit

Mitsubishi multi-zone systems connect multiple styles of indoor units to one outdoor unit. Connect from two to eight indoor units.

The MXZ-8B48NA incorporates two styles of Branch Boxes to connect up to eight indoor units. The MXZ-8B48NA has only one-port on the outdoor unit for two insulated refrigerant lines, which run into the home to connect to one or two Branch Boxes. One Branch Box can connect to a maximum of five units; use two Branch Boxes to connect to a maximum of eight units.

- Compact side discharge outdoor unit
- Multi-zone comfort
- Auto restart following a power outage
- Self-check function-integrated diagnostics
- Advanced microprocessor control
- Five year limited warranty on parts and defects
- Seven year limited warranty on compressors

Model No.		MXZ-2B20NA-1		MXZ-3B24NA		MXZ-3B30NA		MXZ-4B36NA		MXZ-8B48NA		
Type Indoor Unit Installed		Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted	Non-Ducted	Ducted and Non-Ducted	Ducted
Power Supply	V/Ph/Hz	208-230/1/60										
Min. Ampacity	A	15		15		15		19		32		
Sound	Htg (dBA)	51		49		49		57		55		
	Clg (dBA)	49		54		49		54		54		
Weight	Lbs.	130		150		150		153		278		
Dimensions	W	33-1/16		35-7/16		35-7/16		35-7/16		37-7/16		
	D	13		12-5/8		12-5/8		12-5/8		14-3/16		
	H	27-15/16		35-7/16		35-7/16		35-7/16		53-3/16		
Cooling		18,000	20,000	22,000	23,600	28,400	27,400	35,400	34,400	48,000		48,000
SEER		18.0	15.5	17.5	15.0	17.5	14.5	18.0	15.0	15	14.8	14.7
EER		12.5	9.1	12.5	9.6	9.1	8.2	9.4	8.7	8.3	7.84	7.42
Heating at 47° F		22,000	22,000	25,000	24,600	28,600	27,600	36,000	34,400	54,000		54,000
HSPF		8.9	8.5	9.3	8.5	10.5	9.5	9.3	9.0	8.7	8.8	8.9
COP at 47° F		3.91	3.62	4.2	3.8	3.9	3.64	3.5	3.25	11.2	10.7	10.25
Heating at 17° F		12,500	12,500	14,000	14,000	16,000	15,100	22,200	20,300	33,000		34,700
COP at 17° F		2.71	2.56	2.97	2.61	2.77	2.78	2.68	2.54	2.3	2.25	2.19
Number of Ports Liquid/Gas		2 (2) 1/4, 3/8		3 (2) 1/4, 3/8 (1) 1/4, 1/2		3 (2) 1/4, 3/8 (1) 1/4, 1/2		4 (3) 1/4, 3/8 (1) 1/4, 1/2		1 3/8, 5/8		
Min. Indoor Units Installed		2		2		2		2		2		
Min. Installed Capacity		12,000		12,000		12,000		12,000		12,000		
Max. Installed Capacity		24,000		27,000		36,000*		45,000*		70,200		
Total Pipe Length	Ft.	164		230		230		230		377		
Max. Piping Length	Ft.	82		82		82		82		180 from Outdoor Unit to Branch Box		

\* There are some exceptions. See capacity charts for each outdoor unit for permitted combinations. The 30,000, 60,000 or 42,000 BTU/h indoor units cannot be used with any of the MXZ-B multi-zone systems.

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Compatible Indoor Units	MXZ-2B20NA-1	MXZ-3B24NA	MXZ-3B30NA	MXZ-4B36NA	MXZ-8B48NA
MSZ-GE06NA	Yes	Yes	Yes	Yes	Yes
MSZ-GE09NA	Yes	Yes	Yes	Yes	Yes
MSZ-GE12NA	Yes	Yes	Yes	Yes	Yes
MSZ-GE15NA	Yes	Yes	Yes	Yes	Yes
MSZ-GE18NA	No	Yes	Yes	Yes	Yes
MSZ-GE24NA	No	No	No	No	Yes
MSZ-FE09NA	Yes	Yes	Yes	Yes	Yes
MSZ-FE12NA	Yes	Yes	Yes	Yes	Yes
MFZ-KD09NA	Yes	Yes	Yes	Yes	Yes
MFZ-KD12NA	Yes	Yes	Yes	Yes	Yes
MFZ-KD18NA	No	Yes	Yes	Yes	Yes
SEZ-KD09NA	Yes	Yes	Yes	Yes	Yes
SEZ-KD12NA	Yes	Yes	Yes	Yes	Yes
SEZ-KD15NA	Yes	Yes	Yes	Yes	Yes
SEZ-KD18NA	No	Yes	Yes	Yes	Yes
PCA-A24KA	No	Yes	Yes	Yes	No
PEAD-A24AA	No	No	Yes	Yes	Yes
PLA-A18BA	No	Yes	Yes	Yes	Yes
PLA-A24BA	No	No	Yes	Yes	Yes

\* The 30,000, 36,000 or 42,000 BTU/h indoor units cannot be used with any of the MXZ-B multi-zone systems.

Branch Box Connections

Outdoor Unit to Branch Box	Branch Box to Indoor Units	
MXZ-8B48NA	PAC-AKA51BC	PAC-AKA31BC
1 Port (Flare)	5 Ports	3 Ports
3/8, 3/8	(4) 1/4, (1) 3/8	(3) 1/4, 3/8

NOTES: Max. distance from outdoor unit to farthest indoor unit: 300 ft. Max. pipe length from Branch Box to indoor unit: 49 ft. Max. distance from outdoor unit to Branch Box 180 ft. Total max. line length between Branch Box and all connected indoor units: 197 ft.

Wiring: A-control of outdoor unit to Branch Box to indoor units

Outdoor Units

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	89076	MXZ2B20NA-1 20,000 2 ZONE MULTI OUTDOOR UNIT	—	—
1	EA	89077	MXZ3B24NA-1 24,000 3 ZONE MULTI OUTDOOR UNIT	—	—
1	EA	89078	MXZ3B30NA-1 30,000 3 ZONE MULTI OUTDOOR UNIT	—	—
1	EA	89079	MXZ4B36NA 36,000 4 ZONE MULTI OUTDOOR UNIT	—	—
1	EA	89080	MXZ8B48NA 48,000 8 ZONE MULTI OUTDOOR UNIT	—	—

Indoor Units

1	EA	89014	MSZGE06NA-8 6,000 HEAT PUMP M-SERIES WALL	—	—
1	EA	89029	MSZGE09NA-8 9,000 HEAT PUMP M-SERIES INDOOR UNIT	—	—
1	EA	89031	MSZGE12NA-8 12,000 HEAT PUMP M-SERIES INDOOR UNIT	—	—
1	EA	89033	MSZGE15NA-8 15,000 HEAT PUMP M-SERIES INDOOR UNIT	—	—
1	EA	89035	MSZGE18NA-8 17,200 HEAT PUMP M-SERIES INDOOR UNIT	—	—
1	EA	89135	MSZGE24NA 22,500 HEAT PUMP M-SERIES INDOOR WALL	—	—
1	EA	89017	MSZFE09NA-8 9,000 HIGH-EFF H/P INDOOR UNIT	—	—
1	EA	89015	MSZFE12NA-8 12,000 HIGH-EFF H/P INDOOR UNIT	—	—
1	EA	89087	MFZKA09NA 9,000 HEAT PUMP M-SERIES FLOOR	—	—
1	EA	89088	MFZKA12NA 12,000 HEAT PUMP M-SERIES FLOOR	—	—
1	EA	89089	MFZKA18NA 18,000 HEAT PUMP M-SERIES FLOOR	—	—
1	EA	89051	PEADA24AA 24,000 P-SERIES DUCTED	—	—

Port Branch Boxes and Adapters

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	89081	PACAKA31BC 3 PORT BRANCH BOX FOR MXZ8B48NA	—
1	EA	89082	PACAKA51BC 5 PORT BRANCH BOX FOR MXZ8B48NA	—
1	EA	65740	MAC-A455JP-E 1/2" X 3/8" MXZ SERIES PORT ADAPTER	—
1	EA	65742	PAC-SG76RJ-E 3/8" X 5/8" MXZ SERIES PORT ADAPTER	—
1	EA	65737	MAC-A454JP-E 3/8" X 1/2" MXZ SERIES PORT ADAPTER	—
1	EA	89166	PAC-493PI 1/4"X3/8" MXZ SERIES PORT ADAPTER	—
1	EA	89167	MAC-A456JP-E 1/2"X5/8" MXZ SERIES PORT ADAPTER	—

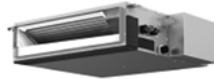


## SUZ/SEZ Single Zone Ducted Systems, Heat Pump

### Inverter Driven, R-410A, Ceiling Concealed



Outdoor Unit



Indoor Unit

- Ultra thin body: 7-7/8" high
- Built-in drain mechanism for condensate removal; lifts to 21-11/16"
- Air filter is included with indoor unit
- Quiet operation—as low as 23 dBA
- PAR-21MAA wired remote controller is included
- Indoor unit powered from outdoor unit using A-Control
- Automatic fan speed control
- Auto restart following a power outage
- Five year limited warranty on parts and defects
- Seven year limited warranty on compressors

Outdoor Unit		SUZKA09NA	SUZKA12NA	SUZKA15NA	SUZKA18NA
Power Supply	V/Ph/Hz	208-230/1/60			
Min. Ampacity	A	12	12	12	12
Weight	Lbs.	66	77	80	119
Max. Cooling Capacity	Btu/h	10900	13300	17000	19000
Max. Heating (at 47°F)	Btu/h	14100	16400	21100	24900
Max. Heating (at 47°F)	Btu/h	7300	9800	13700	15000
Sound	Heating (dBA)	50	51	51	56
	Cooling (dBA)	46	49	49	54
Energy Efficiency	SEER	15	16	15.5	17.5
	HSPF	10	10	10	10
Liquid Line Size	In.	1/4	1/4	1/4	1/4
Gas Line Size	In.	3/8	3/8	1/2	1/2
Max. Ht. Differential	Ft.	40	40	40	50
Max. Length	Ft.	65	65	65	100
Dimensions (In.)	W	31-1/2	31-1/2	31-1/2	33-1/16
	D	11-1/4	11-1/4	11-1/4	13
	H	21-5/8	21-5/8	21-5/8	33-7/16

Indoor Unit		SEZKD09NA	SEZKD12NA	SEZKD15NA	SEZKD18NA
Power Supply	V/Ph/Hz	208-230/1/60			
Min. Ampacity	A	1	1	1	1
Sound (Low-Med-Hi)	dB(A)	23-26-30	23-28-33	30-34-37	30-34-38
Airflow (Low-Med-Hi)	Dry CFM	194-247-317	247-317-388	353-441-529	23-529-635
	Wet CFM	174-222-285	222-285-349	317-396-476	381-476-572
External Static Pressure	In. WG	.02-.06-.14-.2	.02-.06-.14-.2	.02-.06-.14-.2	.02-.06-.14-.2
Weight	Lbs.	42	50	54	62
Dimensions (In.)	W	31-1/8	39	39	46-7/8
	D	27-9/16	27-9/16	27-9/16	27-9/16
	H	7-7/8	7-7/8	7-7/8	7-7/8

### Outdoor Units

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	89083	SUZKA09NA 9,000 M SERIES OUDOOR UNIT, SINGLE ZONE SEZ	—	—
1	EA	89084	SUZKA12NA 12,000 M SERIES OUDOOR UNIT, SINGLE ZONE SEZ	—	—
1	EA	89085	SUZKA15NA 15,000 M SERIES OUDOOR UNIT, SINGLE ZONE SEZ	—	—
1	EA	89086	SUZKA18NA 18,000 M SERIES OUDOOR UNIT, SINGLE ZONE SEZ	—	—

### Indoor Units

1	EA	89129	SEZKD09NA4 9,000 M SERIES INDOOR DUCTED	—	—
1	EA	89130	SEZKD12NA4 12,000 M SERIES INDOOR DUCTED	—	—
1	EA	89131	SEZKD15NA4 15,000 M SERIES INDOOR DUCTED	—	—
1	EA	89132	SEZKD18NA4 18,000 M SERIES INDOOR DUCTED	—	—



## PUY/PCA Ductless Split Systems, Cooling Only

Inverter Driven, R-410A, Ceiling Mounted



Outdoor Unit



Indoor Unit

- The new compact outdoor unit design requires less space and reduces outdoor unit sound level by 4 to 8 dB(A). It provides quiet operation indoors and outdoors in a smaller footprint.
- The low-ambient operation performs well in cooling mode even when the outside temperature is 0° F. This unit meets requirements for year round cooling in applications such as telecom rooms and computer centers.
- The P-series has a new wired remote controller (PAR-21MAA) which displays fault codes for both indoor and outdoor units, displays phone number of servicer, and also displays critical unit operating data for servicer. It offers more information in a larger display and provides faster and easier service.
- The multi-node comfort control (wired or wireless) allows selection of On, Cool, Dry Mode, Fan, Heat or Off quickly and easily.

Outdoor Unit			PUY-A24NHA4	PUY-A30NHA4	PUY-A36NHA4	PUY-A42NHA4
Power Supply		V/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Min. Ampacity		A	18	25	25	26
Weight		Lbs.	163	163	163	258
Rated Capacity	Cooling	Btu/h	24,000	30,000	35,000	42,000
Energy Efficiency		SEER	16.8	14.5	14.4	15.8
Pipe Dimensions	Liquid	In.	3/8	3/8	3/8	3/8
	Gas	In.	5/8	5/8	5/8	5/8
	Max. Ht. Differential	Ft.	100	100	100	100
	Max. Length	Ft.	165	165	165	165
Compressor		Model (Type)	DC Inverter-driven Twin Rotary			Inverter-driven Scroll
Dimensions		W	37-3/8	37-3/8	37-3/8	37-3/8
		D	13+1-3/16	13+1-3/16	13+1-3/16	13+1-3/16
		H	37-1/8	37-1/8	37-1/8	53-1/8

Indoor Unit			PCA-A24KA	PCA-A30KA	PCA-A36KA	PCA-A42KA
Power Supply		V/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Min. Ampacity		A	1	1	2	2
Weight		Lbs.	71	71	79	84
Sound (Lo-M1-M2-Hi)		dB(A)	33-35-37-40	35-37-39-41	37-39-41-43	39-41-43-45
Airflow (Lo-M1-M2-Hi)	Dry CFM		530-565-600-670	565-600-635-705	775-850-920-990	810-885-955-1,025
	Wet CFM		495-530-565-635	530-565-600-670	705-775-850-920	740-810-885-955
Moisture Removal		Pints/H	5.8	8.3	8.5	11.7
Dimensions		W	50-3/8	50-3/8	63	63
		D	26-3/4	26-3/4	26-3/4	26-3/4
		H	9-1/16	9-1/16	9-1/16	9-1/16

### Outdoor Units

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	89108	PUYA24NHA4 24,000 COOLING ONLY P-SERIES OUTDOOR	—	—
1	EA	89110	PUYA30NHA4 30,000 COOLING ONLY P-SERIES OUTDOOR	—	—
1	EA	89116	PUYA36NHA4 36,000 COOLING ONLY P-SERIES OUTDOOR	—	—
1	EA	89120	PUYA42NHA4 42,000 COOLING ONLY P-SERIES OUTDOOR	—	—

### Indoor Units

1	EA	89103	PCAA24KA4 24,000 P-SERIES CEILING LESS CONTROL	—	—
1	EA	89056	PCAA30KA 30,000 P-SERIES CEILING	—	—
1	EA	89109	PCAA30KA4 30,000 P-SERIES CEILING LESS CONTROL	—	—
1	EA	89060	PCAA36KA 36,000 P-SERIES CEILING	—	—
1	EA	89117	PCAA36KA4 36,000 P-SERIES CEILING LESS CONTROL	—	—
1	EA	89066	PCAA42KA 42,000 P-SERIES CEILING	—	—
1	EA	89119	PCAA42KA4 42,000 P-SERIES CEILING LESS CONTROL	—	—



# PUY/PKA Ductless Split Systems, Cooling Only

Inverter Driven, R-410A, Wall-Mount



Outdoor Unit



Indoor Unit

- The new compact outdoor unit design requires less space and reduces outdoor unit sound level by 4 to 8 dB(A). It provides quiet operation indoors and outdoors in a smaller footprint.
- The low-ambient operation performs well in cooling mode even when the outside temperature is 0° F. This unit meets requirements for year round cooling in applications such as telecom rooms and computer centers.
- The P-series has a new wired remote controller (PAR-21MAA) which displays fault codes for both indoor and outdoor units, displays phone number of servicer, and also displays critical unit operating data for servicer. It offers more information in a larger display and provides faster and easier service.
- The multi-node comfort control (wired or wireless) allows selection of On, Cool, Dry Mode, Fan, Heat or Off quickly and easily.

Outdoor Unit		PUY-A12NHA4	PUY-A18NHA4	PUY-A24NHA4	PUY-A30NHA4	PUY-A36NHA4	
Power Supply	V/Ph/Hz	208-230/1/60					
Min. Ampacity	A	13	13	18	25	25	
Weight	Lbs.	90	97	163	163	163	
Rated Capacity	Cooling	Btu/h	12,000	18,000	24,000	30,000	34,200
Energy Efficiency	SEER	15.2	15.3	17.0	15.5	14.0	
Pipe Dimensions	Liquid	In.	1/4	1/4	3/8	3/8	3/8
	Gas	In.	1/2	1/2	5/8	5/8	5/8
Compressor	Model (Type)	DC Inverter-driven Twin Rotary					
	W	31-1/2	31-1/2	37-3/8	37-3/8	37-3/8	
Dimensions	D	13+7/8	13+7/8	13+1-3/16	13+1-3/16	13+1-3/16	
	H	23-5/8	23-5/8	37-1/8	37-1/8	37-1/8	

Indoor Unit		PKA-A12HA	PKA-A18HA	PKA-A24KA	PKA-A30KA	PKA-A36KA
Power Supply	V/Ph/Hz	208-230/1/60				
Min. Ampacity	A	1	1	1	1	1
Weight	Lbs.	29	29	46	46	46
Sound (Lo-Mid-Hi)	dB(A)	36-40-43	36-40-43	39-42-45	39-42-45	43-46-49
Airflow (Lo-Mid-Hi)	Dry CFM	320-370-425	320-370-425	635-705-775	635-705-775	705-810-920
	Wet CFM	290-335-380	290-335-380	570-635-700	570-635-700	635-730-830
Moisture Removal	Pints/H	2.0	5.2	5.0	8.1	9.2
Dimensions	W	35-3/8	35-3/8	46-1/16	46-1/16	46-1/16
	D	9-13/16	9-13/16	11-5/8	11-5/8	11-5/8
	H	11-5/8	11-5/8	14-3/8	14-3/8	14-3/8

## Outdoor Units

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	89097	PUYA12NHA4 12,000 COOLING ONLY P SERIES OUTDOOR	—	—
1	EA	89101	PUYA18NHA4 18,000 COOLING ONLY P SERIES OUTDOOR	—	—
1	EA	89108	PUYA24NHA4 24,000 COOLING ONLY P-SERIES OUTDOOR	—	—
1	EA	89110	PUYA30NHA4 30,000 COOLING ONLY P-SERIES OUTDOOR	—	—
1	EA	89116	PUYA36NHA4 36,000 COOLING ONLY P-SERIES OUTDOOR	—	—

## Indoor Units

1	EA	89095	PKAA12HA4 12,000 P-SERIES LESS CONTROL	—	—
1	EA	89099	PKAA18HA4 18,000 P-SERIES LESS CONTROL	—	—
1	EA	89049	PKAA24KA 24,000 P-SERIES WIRED WALL	—	—
1	EA	89105	PKAA24KA4 24,000 P-SERIES LESS CONTROL	—	—
1	EA	89054	PKAA30KA 30,000 P-SERIES WIRED WALL	—	—
1	EA	89111	PKAA30KA4 30,000 P-SERIES WALL LESS CONTROL	—	—
1	EA	89061	PKAA36KA 36,000 P-SERIES WIRED WALL	—	—
1	EA	89115	PKAA36KA4 36,000 P-SERIES WALL LESS CONTROL	—	—
1	EA	89062	PKAA36KAL 36,000 P-SERIES WIRELESS WALL	—	—



# PUZ/PCA Ductless Split Systems, Heat Pump

Inverter Driven, R-410A, Ceiling Mounted



Outdoor Unit



Indoor Unit

- The new compact outdoor unit design requires less space and reduces outdoor unit sound level by 4 to 8 dB(A). It provides quiet operation indoors and outdoors in a smaller footprint.
- The low-ambient operation performs well in cooling mode even when the outside temperature is 0° F. This unit meets requirements for year round cooling in applications such as telecom rooms and computer centers.
- The P-series has a new wired remote controller (PAR-21MAA) which displays fault codes for both indoor and outdoor units, displays phone number of servicer, and also displays critical unit operating data for servicer. It offers more information in a larger display and provides faster and easier service.
- The multi-node comfort control (wired or wireless) allows selection of On, Cool, Dry Mode, Fan, Heat or Off quickly and easily.

Outdoor Unit		PUZ-A24NHA4	PUZ-A30NHA4	PUZ-A36NHA4	PUZ-A42NHA4
Power Supply	V/Ph/Hz	208-230/1/60			
Min. Ampacity	A	18	25	25	26
Weight	Lbs.	165	165	165	260
Rated Capacity	Cooling	24,000	30,000	35,000	42,000
	Heating at 47° F	26,000	32,000	37,000	45,000
	Heating at 17° F	18,000	23,000	25,000	30,000
Energy Efficiency	SEER	16.8	14.5	14.4	15.8
Pipe Dimensions	Liquid	In.	3/8	3/8	3/8
	Gas	In.	5/8	5/8	5/8
	Max. Ht. Differential	Ft.	100	100	100
	Max. Length	Ft.	165	165	165
Compressor	Model (Type)	DC Inverter-driven Twin Rotary			Inverter-driven Scroll
Dimensions	W	37-3/8	37-3/8	37-3/8	37-3/8
	D	13+1-3/16	13+1-3/16	13+1-3/16	13+1-3/16
	H	37-1/8	37-1/8	37-1/8	53-1/8

Indoor Unit		PCA-A24KA	PCA-A30KA	PCA-A36KA	PCA-A42KA
Power Supply	V/Ph/Hz	208-230/1/60			
Min. Ampacity	A	1	1	2	2
Weight	Lbs.	71	71	79	84
Sound (Lo-M1-M2-Hi)	dB(A)	33-35-37-40	35-37-39-41	37-39-41-43	39-41-43-45
Airflow (Lo-M1-M2-Hi)	Dry CFM	530-565-600-670	565-600-635-705	775-850-920-990	810-885-955-1,025
	Wet CFM	495-530-565-635	530-565-600-670	705-775-850-920	740-810-885-955
Moisture Removal	Pints/h	5.8	8.3	8.5	11.7
Dimensions	W	50-3/8	50-3/8	63	63
	D	26-3/4	26-3/4	26-3/4	26-3/4
	H	9-1/16	9-1/16	9-1/16	9-1/16

## Outdoor Units

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	89125	PUZA24NHA4 24,000 HEAT PUMP P-SERIES OUTDOOR	—	—
1	EA	89126	PUZA30NHA4 30,000 HEAT PUMP P-SERIES OUTDOOR	—	—
1	EA	89065	PUZA36NHA3 36,000 HEAT PUMP P-SERIES OUTDOOR	—	—
1	EA	89127	PUZA36NHA4 36,000 HEAT PUMP P-SERIES OUTDOOR	—	—
1	EA	89069	PUZA42NHA3 42,000 HEAT PUMP P-SERIES OUTDOOR	—	—
1	EA	89128	PUZA42NHA4 42,000 HEAT PUMP P-SERIES OUTDOOR	—	—

## Indoor Units

1	EA	89103	PCAA24KA4 24,000 P-SERIES CEILING LESS CONTROL	—	—
1	EA	89056	PCAA30KA 30,000 P-SERIES CEILING	—	—
1	EA	89109	PCAA30KA4 30,000 P-SERIES CEILING LESS CONTROL	—	—
1	EA	89060	PCAA36KA 36,000 P-SERIES CEILING	—	—
1	EA	89117	PCAA36KA4 36,000 P-SERIES CEILING LESS CONTROL	—	—
1	EA	89066	PCAA42KA 42,000 P-SERIES CEILING	—	—
1	EA	89119	PCAA42KA4 42,000 P-SERIES CEILING LESS CONTROL	—	—



# PUZ/PKA Ductless Split Systems, Heat Pump

Inverter Driven, R-410A, Wall-Mount



Outdoor Unit



Indoor Unit

- The new compact outdoor unit design requires less space and reduces outdoor unit sound level by 4 to 8 dB(A). It provides quiet operation indoors and outdoors in a smaller footprint.
- The low-ambient operation performs well in cooling mode even when the outside temperature is 0° F. This unit meets requirements for year round cooling in applications such as telecom rooms and computer centers.
- The P-series has a new wired remote controller (PAR-21MAA) which displays fault codes for both indoor and outdoor units, displays phone number of servicer, and also displays critical unit operating data for servicer. It offers more information in a larger display and provides faster and easier service.
- The multi-node comfort control (wired or wireless) allows selection of On, Cool, Dry Mode, Fan, Heat or Off quickly and easily.

Outdoor Unit			PUZ-A18NHA	PUZ-A24NHA	PUZ-A30NHA	PUZ-A36NHA
Power Supply	V/Ph/Hz	208-230/1/60				
Min. Ampacity	A	13	18	25	25	
Weight	Lbs.	99	165	165	165	
Rated Capacity	Cooling	Btu/h	18,000	24,000	30,000	34,200
	Heating at 47° F		19,000	26,000	32,000	37,000
	Heating at 17° F		13,000	18,000	23,000	25,000
Energy Efficiency	SEER	15.3	17.0	15.5	14.0	
Pipe Dimensions	Liquid	In.	1/4	3/8	3/8	3/8
	Gas	In.	1/2	5/8	5/8	5/8
	Max. Ht. Differential	Ft.	100	100	100	100
	Max. Length	Ft.	100	165	165	165
Compressor	Model (Type)	DC Inverter-driven Twin Rotary				
Dimensions	W	31-1/2	37-3/8	37-3/8	37-3/8	
	D	13+7/8	13+1-3/16	13+1-3/16	13+1-3/16	
	H	23-5/8	37-1/8	37-1/8	37-1/8	

Indoor Unit			PKA-A18HA	PKA-A24KA	PKA-A30KA	PKA-A36KA
Power Supply	V/Ph/Hz	208-230/1/60				
Min. Ampacity	A	1	1	1	1	
Weight	Lbs.	29	46	46	46	
Sound (Lo-Mid-Hi)	dB(A)	36-40-43	39-42-45	39-42-45	43-46-49	
Airflow (Lo-Mid-Hi)	Dry CFM	320-370-425	635-705-775	635-705-775	705-810-920	
	Wet CFM	290-335-380	570-635-700	570-635-700	635-730-830	
Moisture Removal	Pints/H	5.2	5.0	8.1	9.2	
Dimensions	W	35-3/8	46-1/16	46-1/16	46-1/16	
	D	9-13/16	11-5/8	11-5/8	11-5/8	
	H	11-5/8	14-3/8	14-3/8	14-3/8	

## Outdoor Units

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	89047	PUZA18NHA3 18,000 HEAT PUMP P-SERIES OUTDOOR	—	—
1	EA	89124	PUZA18NHA4 18,000 HEAT PUMP P-SERIES OUTDOOR	—	—
1	EA	89125	PUZA24NHA4 24,000 HEAT PUMP P-SERIES OUTDOOR	—	—
1	EA	89126	PUZA30NHA4 30,000 HEAT PUMP P-SERIES OUTDOOR	—	—
1	EA	89065	PUZA36NHA3 36,000 HEAT PUMP P-SERIES OUTDOOR	—	—
1	EA	89127	PUZA36NHA4 36,000 HEAT PUMP P-SERIES OUTDOOR	—	—

## Indoor Units

1	EA	89099	PKAA18HA4 18,000 P-SERIES LESS CONTROL	—	—
1	EA	89049	PKAA24KA 24,000 P-SERIES WIRED WALL	—	—
1	EA	89105	PKAA24KA4 24,000 P-SERIES LESS CONTROL	—	—
1	EA	89054	PKAA30KA 30,000 P-SERIES WIRED WALL	—	—
1	EA	89111	PKAA30KA4 30,000 P-SERIES WALL LESS CONTROL	—	—
1	EA	89062	PKAA36KAL 36,000 P-SERIES WIRELESS WALL	—	—
1	EA	89115	PKAA36KA4 36,000 P-SERIES WALL LESS CONTROL	—	—

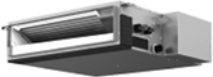


# PUY/PEAD Series Ducted Cooling Only System

Inverter Driven, R-410A, Ceiling Concealed



Outdoor Unit



Indoor Unit

- The PEA indoor unit utilizes short duct runs allowing for the air-conditioning of adjacent spaces or extending the range of distributed capacities within a single zone with very little visual impact to the conditioned area.
- Ducted units allow for the use of conventional registers and grills connected to ductwork. This keeps the actual equipment out of sight and further reduced sound due to the barrier effect of ceiling and insulation materials.
- The new compact outdoor unit design requires less space and reduces outdoor unit sound level by 4 to 8 dB(A). It provides quiet operation indoors and outdoors in a smaller footprint.
- The P-series has a new wired remote controller (PAR-21MAA) which displays fault codes for both indoor and outdoor units, displays phone number of servicer, and also displays critical unit operating data for servicer.
- The multi-node comfort control (wired or wireless) allows selection of On, Cool, Dry Mode, Fan, Heat or Off quickly and easily.

Outdoor Unit			PUY-A12NHA	PUY-A18NHA	PUY-A24NHA	PUY-A30NHA	PUY-A36NHA	PUY-A42NHA
Power Supply	V/Ph/Hz	208-230/1/60						
Min. Ampacity	A	13	13	18	25	25	26	
Weight	Lbs.	90	97	165	165	165	260	
Rated Capacity	Cooling Btu/h	12,000	18,000	24,000	30,000	35,000	42,000	
Energy Efficiency	SEER	13.8	14.3	16.0	15.5	15.0	13.8	
Pipe Dimensions	Liquid In.	1/4	1/4	3/8	3/8	3/8	3/8	
	Gas In.	1/2	1/2	5/8	5/8	5/8	5/8	
	Max. Ht. Differential	Ft.	100	100	100	100	100	
	Max. Length	Ft.	100	100	165	165	165	
Compressor	Model (Type)	DC Inverter-driven Twin Rotary						Inverter-driven Scroll
Dimensions	W	31-1/2	31-1/2	37-3/8	37-3/8	37-3/8	37-3/8	
	D	13+7/8	13+7/8	13+1-3/16	13+1-3/16	13+1-3/16	13+1-3/16	
	H	23-5/8	23-5/8	37-1/8	37-1/8	37-1/8	53-1/8	

Indoor Unit			PEA-A12AA	PEAD-A18AA	PEAD-A24AA	PEAD-A30AA	PEAD-A36AA	PEAD-A42AA
Power Supply	V/Ph/Hz	208-230/1/60						
Min. Ampacity	A	1	2	2.63	2.73	3.30	3.50	
Weight	Lbs.	48	60	73	73	91	95	
Sound (Lo-Mid-Hi)	dB(A)	23-28-33	30-34-38	30-33-37	30-34-39	33-38-42	36-40-44	
Airflow (Lo-Mid-Hi)	Dry CFM	247-317-388	423-529-635	512-636-742	618-742-883	847-1,024-1,201	1,042-1,254-1,483	
	Wet CFM	222-285-349	381-476-572	494-600-671	565-671-812	777-953-1,130	953-1,165-1,412	
Moisture Removal	Pints/H	2.47	3.3	6.9	8.6	7.9	9.0	
Dimensions	W	39	46-7/8	43-5/16	43-5/16	55-1/8	55-1/8	
	D	27-9/16	27-9/16	28-7/8	28-7/8	28-7/8	28-7/8	
	H	7-7/8	7-7/8	9-7/8	9-7/8	9-7/8	9-7/8	

## Outdoor Units

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	89097	PUYA12NHA4 12,000 COOLING ONLY P SERIES OUTDOOR	—	—
1	EA	89101	PUYA18NHA4 18,000 COOLING ONLY P SERIES OUTDOOR	—	—
1	EA	89108	PUYA24NHA4 24,000 COOLING ONLY P-SERIES OUTDOOR	—	—
1	EA	89110	PUYA30NHA4 30,000 COOLING ONLY P-SERIES OUTDOOR	—	—
1	EA	89116	PUYA36NHA4 36,000 COOLING ONLY P-SERIES OUTDOOR	—	—
1	EA	89120	PUYA42NHA4 42,000 COOLING ONLY P-SERIES OUTDOOR	—	—

## Indoor Units

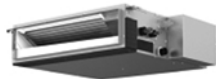
1	EA	89041	PEAA12AA 12,000 P-SERIES DUCTED	—	—
1	EA	89098	PEAA12AA4 12,000 P-SERIES DUCTED LESS CONTROL	—	—
1	EA	89102	PEAA18AA4 18,000 P-SERIES DUCTED LESS CONTROL	—	—
1	EA	89051	PEADA24AA 24,000 P-SERIES DUCTED	—	—
1	EA	89107	PEADA24AA4 24,000 P-SERIES DUCTED LESS CONTROL	—	—
1	EA	89114	PEADA30AA4 30,000 P-SERIES DUCTED LESS CONTROL	—	—
1	EA	89133	PEADA36AA4 36,000 P-SERIES DUCTED	—	—
1	EA	89067	PEADA42AA 42,000 P-SERIES DUCTED	—	—
1	EA	89122	PEADA42AA4 42,000 P-SERIES DUCTED LESS CONTROL	—	—



## PUZ/PEAD Series Ducted Split Systems, Heat Pump Inverter Driven, R-410A, Ceiling Concealed



Outdoor Unit



Indoor Unit

- The PEA indoor unit utilizes short duct runs allowing for the air-conditioning of adjacent spaces or extending the range of distributed capacities within a single zone with very little visual impact to the conditioned area.
- Ducted units allow for the use of conventional registers and grills connected to ductwork. This keeps the actual equipment out of sight and further reduced sound due to the barrier effect of ceiling and insulation materials.
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- The multi-node comfort control (wired or wireless) allows selection of On, Cool, Dry Mode, Fan, Heat or Off quickly and easily.

Outdoor Unit		PUZ-A18NHA	PUZ-A24NHA	PUZ-A30NHA	PUZ-A36NHA	PUZ-A42NHA	
Power Supply	V/Ph/Hz	208-230/1/60					
Min. Ampacity	A	13	18	25	25	26	
Weight	Lbs.	99	165	165	165	260	
Rated Capacity	Cooling	Btu/h	18,000	24,000	30,000	35,000	42,000
	Heating at 47° F		19,000	26,000	32,000	37,000	45,000
	Heating at 17° F		13,000	18,000	23,000	25,000	30,000
Energy Efficiency	SEER	14.3	16.0	15.5	15.0	13.8	
Pipe Dimensions	Liquid	In.	1/4	3/8	3/8	3/8	3/8
	Gas	In.	1/2	5/8	5/8	5/8	5/8
	Max. Ht. Differential	Ft.	100	100	100	100	100
	Max. Length	Ft.	100	165	165	165	165
Compressor	Model (Type)	DC Inverter-driven Twin Rotary				Inverter-driven Scroll	
Dimensions	W	31-1/2	37-3/8	37-3/8	37-3/8	37-3/8	
	D	13+7/8	13+1-3/16	13+1-3/16	13+1-3/16	13+1-3/16	
	H	23-5/8	37-1/8	37-1/8	37-1/8	53-1/8	

Indoor Unit		PEA-A18AA	PEAD-A24AA	PEAD-A30AA	PEAD-A36AA	PEAD-A42AA
Power Supply	V/Ph/Hz	208-230/1/60				
Min. Ampacity	A	2	2.63	2.73	3.30	3.50
Weight	Lbs.	60	73	73	91	95
Sound (Lo-Mid-Hi)	dB(A)	30-34-38	30-33-37	30-34-39	33-38-42	36-40-44
Airflow (Lo-Mid-Hi)	Dry CFM	423-529-635	512-636-742	618-742-883	847-1,024-1,201	1,042-1,254-1,483
	Wet CFM	381-476-572	494-600-671	565-671-812	777-953-1,130	953-1,165-1,412
Moisture Removal	Pints/H	3.3	6.9	8.6	7.9	9.0
Dimensions	W	46-7/8	43-5/16	43-5/16	55-1/8	55-1/8
	D	27-9/16	28-7/8	28-7/8	28-7/8	28-7/8
	H	7-7/8	9-7/8	9-7/8	9-7/8	9-7/8

### Outdoor Units

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	89047	PUZA18NHA3 18,000 HEAT PUMP P-SERIES OUTDOOR	—	—
1	EA	89124	PUZA18NHA4 18,000 HEAT PUMP P-SERIES OUTDOOR	—	—
1	EA	89125	PUZA24NHA4 24,000 HEAT PUMP P-SERIES OUTDOOR	—	—
1	EA	89126	PUZA30NHA4 30,000 HEAT PUMP P-SERIES OUTDOOR	—	—
1	EA	89065	PUZA36NHA3 36,000 HEAT PUMP P-SERIES OUTDOOR	—	—
1	EA	89127	PUZA36NHA4 36,000 HEAT PUMP P-SERIES OUTDOOR	—	—
1	EA	89069	PUZA42NHA3 42,000 HEAT PUMP P-SERIES OUTDOOR	—	—
1	EA	89128	PUZA42NHA4 42,000 HEAT PUMP P-SERIES OUTDOOR	—	—

### Indoor Units

1	EA	89102	PEAA18AA4 18,000 P-SERIES DUCTED LESS CONTROL	—	—
1	EA	89051	PEADA24AA 24,000 P-SERIES DUCTED	—	—
1	EA	89107	PEADA24AA4 24,000 P-SERIES DUCTED LESS CONTROL	—	—
1	EA	89114	PEADA30AA4 30,000 P-SERIES DUCTED LESS CONTROL	—	—
1	EA	89063	PEADA36AA 36,000 P-SERIES DUCTED	—	—
1	EA	89133	PEADA36AA4 36,000 P-SERIES DUCTED	—	—
1	EA	89067	PEADA42AA 42,000 P-SERIES DUCTED	—	—
1	EA	89122	PEADA42AA4 42,000 P-SERIES DUCTED LESS CONTROL	—	—





## PUZ Series H2i Series Heat Pump

### Inverter Driven, R-410A



The 2.5 and 3-ton wall-mounted, ceiling-suspended, ceiling-recessed and ducted units connect to the H2i P-series outdoor units. This gives customized performance flexible enough to excel in any light commercial application, institutional renovation, or new construction project. Rugged construction ensures cold-weather reliability.

Model Name		PUZHA30NHA30NHA4	PUZHA36NHA2	PUZHA36NHA4
Power Supply	Phase, Cycle, Voltage	1-Phase, 60 Hz, 208/230V		
MCA	A	28		
Recommended Fuse/Breaker	A	30		
MOCP	A	40		
Fan Motor	F.L.A.	0.4 x 0.4		
Fan Motor Output	W=	60 x 60		
Compressor	Model (Type)	Inverter		
	R.L.A.	18		
	L.R.A.	27.5		
Airflow	CFM	3,530		
Refrigerant Control		Electronic Expansion Valve		
Defrost Method		Reverse Cycle		
Dimensions (In.)	W	37-3/8		
	D	13 x 1-3/16		
	H	53-1/8		
Weight	Lbs.	265		
Refrigerant	Charge (Lbs.)	12		
	Oil Type (fl. oz.)	FV50S (45)		
Refrigerant Type	Gas Side O.D. (In.)	5/8		
	Liquid Side O.D. (In.)	3/8		
Refrigerant Pipe Length	Height Diff. Max. (Ft.)	100		
	Length Max. (Ft.)	245		
Connection Method	Indoor/Outdoor	Flared/Flared		
Operating Temperature Range	Cooling	0° F D.B. to 115° F D.B. with Wind Baffle Accessory Installed		
	Heating	-13° F W.B. to +59° F W.B.		

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	89092	PUZHA36NHA2 HYPER HEAT 36,000 HEAT PUMP P-SERIES OUTDOOR	—	—
1	EA	89186	PUZHA30NHA4 HYPER HEAT 30,000 HEAT PUMP P-SERIES OUTDOOR	—	—
1	EA	89187	PUZHA36NHA4 HYPER HEAT 36,000 HEAT PUMP P-SERIES OUTDOOR	—	—

**MITSUBISHI ELECTRONICS**  
**Condensate Pumps**  
**Mr. SLIM**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65700	SI3100-230 230V 6000 TO 24000 BTU MINI SPLIT CONDENSATE PUMP	—
1	EA	67602	SI1730 230V 30000 TO 42000 BTU MINI SPLIT CONDENSATE PUMP	—
1	EA	67604	SI3100-115 MS-SERIES 115 VOLT MINI CONDENSATION PUMP	—

**ASPEN** Mini Split Pumps and Accessories

Model No.	ASP-MA-UNI	ASP-MAXO-230	ASP-MAXO-UNI	ASP-MO-UNI	ASP-MW-UNI
Pump Length (In.)	6.5	4.875	4.875	4.25	7.125
Pump Width (In.)	1.125	1.75	1.75	1.5	2
Pump Height (In.)	1.125	2.625	2.625	2	4.5
Capacity	3.7 GPH @ 0 Head	10GPH @ 0 Head	10 GPH @ 0 Head	3.7 GPH @ 0 Head	2.8 GPH @ 0 Head
Max. BTUs	24,000	60,000	60,000	24,000	30,000
Max. Head Ft.	33	50	50	33	33
Max. Temp	N/A	N/A	N/A	N/A	N/A
Max. Suction Lift (Ft.)	3	4	4	4	N/A
Sound Level	25 dB(A)	35dB(A)	35 dB(A)	25dB(A)	22 dB(A)
Dry Contact Rating	3A NO/NC	3A NO/NC	3A NO/NC	3A NO/NC	3A NO/NC
Voltage	100-250	230	100-250	100-250	100-250
Amps	.15 MAX	.15 MAX	.15 MAX	.18 MAX	.18 MAX
Watts	16	21	21	15	15
Remote Reservoir	Y	Y	Y	Y	Y
Plenum Rated	N	N	N	N	N
Cable Length (Ft.)	6	6	6	6	6

**Condensate Pumps**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65160	ASP-MA-UNI 100V-250V MINI AQUA CONDENSATE PUMP KIT	—
1	EA	65164	ASP-MAXO-230 230V MAXI ORANGE CONDENSATE PUMP	—
1	EA	65161	ASP-MAXO-UNI 100V-250V MAXI ORANGE CONDENSATE PUMP	—
1	EA	65163	ASP-MO-UNI 100V-250V MINI ORANGE CONDENSATE PUMP	—
1	EA	65159	ASP-MW-UNI 100V-250V MINI WHITE CONDENSATE PUMP KIT	—

**Accessories**

10	EA	65158	EZT-180 5/8" MINI TRAP FOR MINI SPLIT A/C	—
1	EA	65162	WBB-300 300LB MINI SPLIT WALL BRACKET	—

**BARON**™ Tray Cable  
DIVISION OF COLEMAN CABLE SYSTEMS, INC.

This cable consists of four bare copper insulated conductors cabled with a mylar wrap and an oil and sunlight resistant overall jacket.

- 14 gauge
- UL listed



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	RLL	76707	604105008 14-4 STR COMPACT 50' BLK	—	—	—
1	RLL	76713	604100408 14-4 STR COMPACT 250' BLK	—	—	—



## Accessories and Replacement Parts

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	66051	220111FRP FAN MOTOR	—
1	EA	66052	305023FRP (03101976000) CONTROL BOARD	—
1	EA	66066	E02268426 REMOTE CONTROLLER	—
1	EA	89218	E02268900 COMPRESSOR KH122WES(T92513200)	—
1	EA	65994	E02480451 M-SERIES CONTROL BOARD	—
1	EA	89219	E12271900 COMPRESSOR (T92667600)	—
1	EA	89215	E12289900 COMPRESSOR RH-140-WGJT	—
1	EA	89216	E12784900 COMPRESSOR (E02784900)	—
1	EA	89223	E12897302 LINE FLOW FAN (E02897302)	—
1	EA	89224	E12915100 CATECHIN AIR FILTER LEFT	—
1	EA	89225	E12916100 CATECHIN AIR FILTER RIGHT	—
1	EA	66090	E12A49452 MS-A09WA CONTROL P.C. CIRCUIT BOARD	—
1	EA	89226	E12A54300 INDOOR FAN MOTOR (E02A54300)	—
1	EA	89217	E12A56900 COMPRESSOR SNB130FPDH	—
1	EA	89227	E12A58440 POWER BOARD (E02A58440)	—
1	EA	89161	E12C26426 REMOTE CONTROLLER	—
1	EA	89160	E12C85426 REMOTE CONTROLLER	—
1	EA	89162	E12E79426 REMOTE CONTROLLER	—
1	EA	89163	E12E83426 REMOTE CONTROLLER	—
1	EA	89158	E12F15450 CONTROL BOARD	—
1	EA	89157	E12F54450 CONTROL BOARD	—
1	EA	89172	FBL1-1 MERV 8 OPTIONAL FILTER BOX W/FILTERS	—
1	EA	89171	FBL1-2 MERV 8 OPTIONAL FILTER BOX W/FILTERS	—
1	EA	89170	FBL1-3 MERV 8 OPTIONAL FILTER BOX W/FILTERS	—
1	EA	89169	FBM2-3 MERV 13 OPTIONAL FILTER BOX W/FILTERS	—
1	EA	89168	FBM2-4 MERV 13 OPTIONAL FILTER BOX W/FILTERS	—
1	EA	65722	ICM379M MUM 18 COIL SENSOR	—
1	EA	89228	M210A0424 NOISE FILTER BOARD	—
1	EA	89229	M219T4440 POWER BOARD (M210A1440)	—
1	PKG	89183	MAC-1415FT-E MSZ/MSY-D30/36 ANTI-ALLERGY ENZYME FILTER 2PK	—
1	EA	66248	MAC-2300FT TWO TON ANTI-ALLERGY ENZYME FILTER	—
1	PKG	89182	MAC-2300FT M-SERIES INDOOR UNIT A24 ANTI-ALLERGY ENZYME FILTER 2PK	—
1	PKG	89179	MAC-2310FT-E MUZ(Y)GE24NA ANTI-ALLERGY ENZYME FILTER 2PK	—
1	EA	66262	MAC-415FT-E 3/4 THROUGH 1.5 TON ANTI-ALLERGY ENZYME FILTER	—
1	EA	89151	MAC-642BH-U BASE DRAIN PAN HEATER	—
1	EA	89167	MAC-A456JP-E 1/2"X5/8" MXZ SERIES PORT ADAPTER	—
1	EA	89178	MAC308FT MSI-FD 9/12 PLATINUM DEODORIZING FILTER	—
1	PKG	89177	MAC408FT-E M-SERIES INDOOR ANTI-ALLERGY ENZYME FILTER 2PK	—
1	EA	89181	MAC415FT M-SERIES INDOOR UNIT ANTI-ALLERGY ENZYME FILTER	—
1	EA	89180	MAC418FT MSZ-FD 9/12 ANTI-ALLERGY ENZYME FILTER	—
1	EA	89148	MHK1 WIRELESS CONTROLLER BACK LIT WALL MOUNT DUAL SET	—
1	EA	89165	MSDD-50AR-E BRANCH BOX FLARE CONNECTOR	—
1	EA	89164	MSDD-50SR-E P-SERIES DISTRIBUTION PIPE	—
1	EA	89166	PAC-493PI 1/4"X3/8" MXZ SERIES PORT ADAPTER	—
1	EA	89176	PAC-SE81KF-E PCA INDOOR UNITS HIGH EFFICIENCY FILTER ELEMENT	—
1	EA	89175	PAC-SH59KF-E ALL PLA-ABA MODELS HIGH EFFICIENCY MERV 10 FILTER	—
1	EA	89174	PAC-SH89KF PCA-A24/30KA HIGH EFFICIENCY FILTER ELEMENT	—
1	EA	89173	PAC-SH90KF PCA-A36/42KA HIGH EFFICIENCY FILTER ELEMENT	—
1	EA	89144	PAR-FL32MA-E WIRELESS CONTROLLER SEZ,SLZ,PKA,PLA,PEA(D)	—
1	EA	89141	PAR-SA9CA-E WIRELESS SIGNAL RECEIVER SEZ AND PEA/D INDOOR MODELS	—
1	EA	89143	PAR-SA9FA-E WIRELESS SIGNAL RECEIVER PLA-ABA MODELS	—
1	EA	89140	PAR-SL93B-E WIRELESS REMOTE CONTROL PCA MODELS	—
1	EA	89142	PAR-SL97A-E WIRELESS CONTROLLER PKA INDOORS W/ RECEIVER	—
1	EA	89123	PAR21MAAU-J DELUXE MA REMOTE CONTROLLER FOR WIRED	—
1	EA	89230	R01600425 CAPILLARY TUBE	—
1	EA	89231	R01E03103 SLEEVE BEARING (R0112G103)	—
1	EA	89232	R01E06239 FUSE - 250V 6.3 AMP	—
1	EA	89233	R01E59220 FAN MOTOR (R01E43220)	—
1	EA	66077	R01J01202 THERMISTOR (ROOM TEMP)	—
1	EA	89013	R01J07202 THERMISTER	—
1	EA	66079	R01K01310 BOARD CONTROLLER	—
1	EA	89234	R01KV5102 BEARING MOUNT	—
1	EA	89154	T2W9T7451 CONTROL BOARD	—
1	EA	89155	T2W9T8451 CONTROL BOARD	—
1	EA	89156	T2W9T9451 CONTROL BOARD	—

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STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	89159	T2WL7V451 CONTROL BOARD	—
1	EA	89235	T2WL7V451 CO P.B. ASSY (TWJ7E451)	—
1	EA	66110	T7W850315 CONTROL BOARD	—
1	EA	66099	T7W851763 FAN MOTOR	—
1	EA	66094	T7WA30315 BOARD CONTROLLER	—
1	EA	89237	T7WB05762 FAN MOTOR (T7WB00762)	—
1	EA	66095	T7WE01713 REMOTE CONTROLLER	—
1	EA	89012	T7WE08315 CONTROLLER BOARD	—
1	EA	89238	T7WE20346 NOISE FILTER BOARD	—
1	EA	89239	T7WE34313 POWER BOARD (T7WE19313)	—
1	EA	89240	T7WE56310 CONTROLLER BOARD (T7WE46310)	—
1	EA	89236	T7WE72313 POWER BOARD (T7WE62313)	—
1	EA	89153	T7WE94315 CONTROL BOARD	—
1	EA	89241	T92506801 (T92501801) COMPRESSOR TNB220FLDM	—
1	EA	89220	T97501400 COMPRESSOR (T97517300)	—
1	EA	89221	T97503400 COMPRESSOR (T97518300)	—
1	EA	89222	T97531452 COMPRESSOR (T97665600)	—



## The CITY MULTI Advantage

CITY MULTI is the first two-pipe simultaneous cooling and heating system available in the United States and around the world. This technology has a long and proven track record of quality and reliability. The CITY MULTI VRF (Variable Refrigerant Flow) system takes advantage of Inverter technology by varying the speed of the compressor in the outdoor unit to meet the changing load requirements in each of the indoor zones.

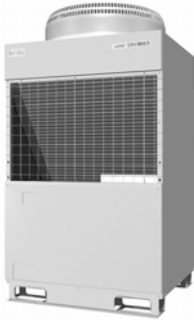
CITY MULTI VRF systems provide the flexibility to meet any application, ranging from the simple to the complex. The best way to ensure total comfort for the occupants of offices, schools, hospitals, assisted-living facilities, hotels and others is to provide each individual zone with a personalized comfort system. Zoning offers maximum individual comfort and energy savings because each zone receives conditioning only when it needs it. Each zone of the CITY MULTI system has its own indoor unit or group of indoor units that precisely control the indoor temperature, while operating with minimal energy usage. You set the comfort level, then relax.

The CITY MULTI technology is designed to allow building owners and designers as many opportunities as possible to attain Leadership in Energy and Environmental Design (LEED) points when designing and applying CITY MULTI. Mitsubishi Electric is a corporate member of U.S. Green Building Council (USGBC) and is committed to sustainable products and design. CITY MULTI VRF technology may contribute to a building receiving LEED points in areas of Energy and Atmosphere and Indoor Air Quality.

**NOTE:** When quoting CITY MULTI Equipment, please contact the commercial sales team at 630-932-8777.



## R2 Series Heat Pumps



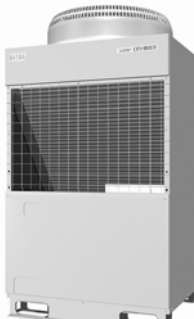
The R-2 Series simultaneously cools and heats different zones within a building to provide energy-saving, heat-recovery operation through the use of the BC controller. This means less work is required of the outdoor unit, which translates into energy savings and increased overall capacity. The R-2 Series can support up to 50 indoor units. The modular unit design features low operating sound, easy piping and maintenance design. Lightweight materials and R-2 Series units are available in both 208/230V and 460V for various applications.

NOTE: When quoting City Multi Equipment, please contact the commercial sales team at 630-932-8777.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	69600	PURY-P72TJMU-A 72,000 BTUH CITY MULTI R-2 SERIES OUTDOOR UNIT	—
1	EA	69601	PURY-P96TJMU-A 96,000 BTUH CITY-MULTI R-2 SERIES OUTDOOR UNIT	—
1	EA	69611	PURY-P144TGMU-A 144,000 BTUH CITY-MULTI R-2 SERIES OUTDOOR UNIT	—
1	EA	88100	PURY-P72THMU-A 72,000 BTUH CITY-MULTI R-SERIES MODULAR CONDENSING	—



## Y-Series Heat Pumps



Y-Series outdoor units are flexible enough to cool or heat up to 50 individual zones, maximizing building design options. The modular unit design features a small footprint, low operating sound, lightweight materials, and easy piping and maintenance design. Y-Series units are available in both 208/230V and 460V for various applications.

NOTE: When quoting City Multi Equipment, please contact the commercial sales team at 630-932-8777.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	69634	PUHY-P72TJMU-A 72,000 BTUH CITY-MULTI Y SERIES OUTDOOR UNIT	—
1	EA	69637	PUHY-P144TJMU-A 144,000 BTUH CITY MULTI Y SERIES OUTDOOR UNIT	—
1	EA	88103	PUHY-P72THMU-A 72,000 BTUH CITY-MULTI Y-SERIES MODULAR CONDENSING	—
1	EA	88104	PUHY-P96TJMU-A 96,000 BTUH CITY-MULTI Y-SERIES MODULAR CONDENSING	—
1	EA	88105	PUHY-P120TJMU-A 120,000 BTUH CITY-MULTI Y-SERIES OUTDOOR UNIT	—



## Hyper-Heating (H2i) Heat Pumps Inverter Driven



Hyper-Heating Inverter Y-Series units combine the ultimate in application flexibility with powerful cooling and heating capabilities to deliver precise comfort control to multiple zones in a building. Providing up to 100% heating capacity at -4° F outdoor temperature and 84% capacity at -13° outdoor temperature, the H2i unit is the perfect choice for year round comfort even in the coldest of climates.

NOTE: When quoting City Multi Equipment, please contact the commercial sales team at 630-932-8777.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	69639	PUHY-HP72TJMU-A 72,000 BTUH CITY-MULTI HYPER HEAT OUTDOOR UNIT	—
1	EA	69643	PUHY-HP96TJMU-A 96,000 BTUH CITY-MULTI HYPER HEAT OUTDOOR UNIT	—



## S-Series Heat Pumps



The S-Series is a single-phase system perfect for light commercial or large residential applications. Available in 36,000 or 48,000 BTU/h, the S-Series can provide cooling or heating for up to eight individual zones.

NOTE: When quoting City Multi Equipment, please contact the commercial sales team at 630-932-8777.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	88106	PUMY-P36NHMU 36,000 BTUH CITY-MULTI S-SERIES OUTDOOR UNIT	—



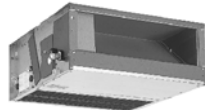
## Indoor Units

Mitsubishi Electric's wide selection of indoor unit styles allows you to choose the appropriate style and size that meets your requirements for layout and design.

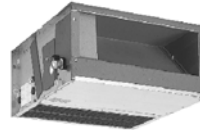
NOTE: When quoting CITY MULTI Equipment, please contact the commercial sales team at 630-932-8777.



PCFY



PDFY



PEFY  
Ceiling-Concealed



PFFY  
Floor-Standing Exposed



PFFY  
Floor-Standing Concealed



PKFY  
Wall Mounted



PLFY  
Ceiling-Recessed Cassette



PMFY (1-Way)  
Ceiling-Recessed Cassette



## Water-Source Units

### W-Series WR2, WY Heat Recovery and Heat Pump Systems

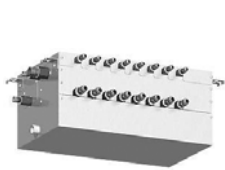


W-Series units combine the convenience of water-source systems with VRF technology. These units are easily installed indoors, and can be used on a range of closed water loop applications, including geothermal. The W-series includes WR2 heat recovery units for simultaneous cooling and heating, and powerful heat pump WY models. New modular design up to 30 tons of maximum capacity. Available in 208/230 460V capacity.

NOTE: When quoting CITY MULTI Equipment, please contact the commercial sales team at 630-932-8777.



## Controls Network



BC Controller



AG-150 Touch



GB24 Controller for PC



GB50ADA



DIDO/AI Control



PAC-YT51CRB



PAR-21MAA, PAR-F27MEA  
Remote Controllers



PAR-30MAA



TC-27 Touch Screen



Wireless Remote

### Branch Circuit (BC) Controllers

The BC Controller is the technological heart of CITY MULTI R2-Series Systems. It works in unison with the outdoor unit to provide simultaneous cooling and heating. The BC Controller is connected to the outdoor unit by two pipes and to each indoor unit by a series of two refrigerant pipes, depending on the number of indoor units. The BC Controller is required for all CITY MULTI R2-Series installations and comes in 5-, 6-, 8-, 10-, 13-, and 16-branch options. The BC Controller selected depends on how many indoor units will be operated from each outdoor unit and your total capacity. Up to three BC Controllers may be connected to a R-410A R2-Series system. There are three types of BC Controllers: Single (-G), Main (-GA), and Sub (-GB/HB).

### CITY MULTI Controls Network (CMCN)

Mitsubishi Electric's M-NET communication bus allows CMCN to deliver precise temperature control to each individual zone. The M-NET allows for a simple installation and configuration of CMCN components. The flexibility of CMCN allows building owners to customize the levels of control from remote controllers for the occupant in the space, from PC browsers for building engineers, and via BACnet® and LonWorks® interfaces for the BMS.

**NOTE:** When quoting CITY MULTI Equipment, please contact the commercial sales team at 630-932-8777.





## CYCLEMASTER Flare Ball Valve Insulation Covers Included



CYCLEMASTER flare ball valves feature full port construction, environmentally friendly, chromium-plated balls for reduced wear and extended seal life, and our exclusive MCM seals for industry-leading longevity and low leak rates. The insulations covers eliminate time and hassle associated with cutting insulation in the field.

- Engineered for multi-split A/C and heat pump units
- Self sealing elastometric insulation cover available
- Rupture proof encapsulated stem
- Dual o-ring seals
- Suitable for use with CFC, HCFC, and HFC refrigerants and oils, including R-410A
- Access points allow valve to be opened and closed without removing insulation
- Elastometric insulation meets 25/50 flame and smoke ratings and ASTM C177
- UL/cUL listed, CE certified
- Design working pressure (PS): 700 psig, 48 bar
- Working temperature range (TS): -40° F/300° F, -40° C/149° C

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	89184	A 18568 CYCLEMASTER 3/8" FLARE BALL VALVE W/INSULATION COVERS	—
1	EA	89185	A 18570 CYCLEMASTER 5/8" FLARE BALL VALVE W/INSULATION COVERS	—
				—



## Geothermal Heat Pump, R-410A High Efficiency, Two-Stage



The GeoMax 2 is one of the most efficient heating and cooling systems available. The two-stage design allows the unit to run at 67% capacity most of the time to maintain a consistent temperature and healthy humidity level. When there's a demand for greater heating/cooling, such as during weather extremes, the unit instantly shifts to 100% capacity. This part load/full load capability significantly lowers annual operating costs while increasing comfort.

### Features

- Quiet operation
- ECM motor
- Two stage compressor
- Microprocessor controls
- CuNI coil
- Extended operating range: 20° to 120° F
- Hot water generator (desuper heater)
- Stainless steel drain pan

### Warranties

- 12 years on compressor
- 6 years on other parts

Model Number	Capacity Modulation	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
		Cooling 86° F		Heating 68° F		Cooling 59° F		Heating 50° F		Cooling 77°F		Heating 32° F	
		Capacity BTUH	EER BTUH/W	Capacity BTUH	COP	Capacity BTUH	EER BTUH/W	Capacity BTUH	COP	Capacity BTUH	EER BTUH/W	Capacity BTUH	COP
HTV036	Full	36,150	14.4	44,700	4.9	41,100	21.3	36,550	4.3	38,150	16.9	28,950	3.7
	Part	26,150	17.2	30,700	5.9	30,100	29.1	24,650	4.8	28,850	25.0	22,050	4.2
HTV048	Full	48,350	14.5	59,800	4.8	54,500	20.9	48,150	4.3	50,550	16.6	37,450	3.7
	Part	36,050	16.6	44,200	5.7	40,600	26.5	35,250	4.7	39,550	23.0	31,150	4.2
HTV060	Full	61,450	13.9	72,200	4.6	68,500	20.3	59,450	4.1	64,750	16.2	47,950	3.6
	Part	44,850	16.3	51,000	5.2	51,800	27.5	41,650	4.4	49,750	23.4	37,450	4.0

### Electrical Data

Model	Rated Voltage	Voltage Min/Max	Compressor			HWG Pump FLA	Ext Loop FLA	Fan Motor FLA	Total Unit FLA	Min. Circ Amp	Max. Fuse Size	Ship Weight (Lbs.)
			RLA	LRA	Qty							
HTV036	208-230/60/1	197/254	16.7	84.5	1	0.4	4.0	4.3	25.4	29.6	45	337
HTV048			21.2	98.9	1	0.4	4.0	7.0	32.6	37.9	50	426
HTV060			25.6	121.5	1	0.4	4.0	7.0	37.0	43.4	60	453

### Heat Pumps

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	88000	HTV036A1C01JLK 3 TON 2 STAGE 410A LEFT RETURN GEOTHERMAL	—
1	EA	88001	HTV036A1C01JRK 3 TON 2 STAGE 410A RIGHT RETURN GEOTHERMAL	—
1	EA	88002	HTV048A1C01JLK 4 TON 2 STAGE 410A LEFT RETURN GEOTHERMAL	—
1	EA	88004	HTV060A1C01JRK 5 TON 2 STAGE 410A RIGHT RETURN GEOTHERMAL	—

### Accessories

1	EA	88005	7602-103 1" NEOPRENE HOSE KIT FOR GEOTHERMAL	—
1	EA	88006	7602-301 DUAL LOOP PUMP FOR GEOTHERMAL	—
1	EA	88011	HGL20A 20 KW HEAT KIT FOR GEOTHERMAL	—
1	EA	88012	HGL15A 15 KW HEAT KIT FOR GEOTHERMAL	—
1	EA	88013	7602-203 3/4" 3 GPM FLOW CONTROL FOR GEOTHERMAL	—
1	EA	88014	7602-204 3/4" 4 GPM FLOW CONTROL FOR GEOTHERMAL	—
1	EA	88015	7602-205 3/4" 5 GPM FLOW CONTROL FOR GEOTHERMAL	—
1	EA	88016	7602-206 3/4" 6 GPM FLOW CONTROL FOR GEOTHERMAL	—
1	EA	88017	7602-207 3/4" 7 GPM FLOW CONTROL FOR GEOTHERMAL	—
1	EA	88019	7602-150 3/4" SLOW ACTING VALVE GEOTHERMAL	—

### Repair Pump for Pump Kit

1	EA	88010	UPS26-99FC 230V 3-SPD CAST IRON PUMP L/FLANGE W/CHECK VALVE	—
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## GeoTec™ Step Capacity Geothermal Heat Pumps, R-410A Multi-Capacity, Two-Stage



The GeoTec™ Geothermal/Water Source Packaged Heat Pump delivers economical year-round comfort by utilizing nature's most abundant and efficient solar energy collector—the earth. The GV series heat pumps are designed for low water flow rates and offer cooling efficiencies up to 30.6 EER and heating efficiencies up to 5.4 COP on ground water, and cooling efficiencies up to 26.2 EER and heating efficiencies up to 4.8 COP on ground loop.

**Ground Water Application:** Water temp 45° to 75°

**Ground Loop Application:** Temp range 25° to 110°

- Step capacity compressor
- Liquid line drier
- Lockout circuit
- High pressure switch
- Control panel
- Low pressure switch
- High efficiency coaxial water coil in either copper or cupronickel
- Indoor air coil
- Service access ports
- Filter rack
- Thermostatic expansion valve

Model No.	Electrical Rating	Min. Circuit Ampacity	Blower Motor			2" Pleated MERV 6	Shipping Wt. (Lbs.)
			HP/Speed/Type	Amps	Face Area Sq. Ft./Rows/Fins Per Inch		
GV27S1-A	230/208-1	17	1/3 / 5 / ECM	1.5/1.6	3.16/4/11	20 x 25 x 2 (1)	340
GV38S1-A	230/208-1	26	1/2 / 5 / ECM	2.5/2.95	3.16/4/11	20 x 25 x 2 (1)	345
GV51S1-A	230/208-1	32	1/2 / 5 / ECM	2.8/3.0	5.33/3/11	16 x 25 x 2 (2)	390
GV61S1-A	230/208-1	38	3/4 / 5 / ECM	3.8/4.1	5.33/4/11	16 x 25 x 2 (2)	440
GV71S1-A	230/208-1	41	3/4 / 5 / ECM	4.1/4.2	5.33/5/10	16 x 25 x 2 (2)	450

Model No.	System Capacity Modulation	Fluid Flow Rate GPM	Airflow CFM	Ground Loop Heat Pump			
				Cooling Brine Full Load 77° F Part Load 68° F		Heating Brine Full Load 32° F Part Load 41° F	
				Capacity BTUH	EER BTU/W	Capacity BTUH	COP
GV27	Full	7	1000	27,000	17.7	20,000	4.1
	Part	7	800	21,800	26.2	17,800	4.8
GV38	Full	9	1300	38,500	17.1	28,600	3.9
	Part	9	900	28,200	25.4	23,600	4.4
GV51	Full	12	1500	50,000	16.7	37,000	3.6
	Part	12	1150	39,000	23.0	30,500	4.0
GV61	Full	15	1600	61,500	16.6	47,500	3.6
	Part	15	1300	47,500	22.1	39,000	3.9
GV71	Full	16	1750	70,000	15.0	53,600	3.7
	Part	15	1450	56,000	19.5	47,000	4.0

Model No.	System Capacity Modulation	Fluid Flow Rate GPM	Airflow CFM	Ground Water Heat Pump			
				Cooling—EWT 59° F		Heating—EWT 50° F	
				Capacity BTUH	EER BTU/W	Capacity BTUH	COP
GV27	Full	5	1000	30,600	22.4	27,000	4.9
	Part	5	800	23,000	30.6	19,800	5.4
GV38	Full	6	1300	41,000	20.7	37,000	4.4
	Part	6	900	29,400	29.6	25,800	4.8
GV51	Full	7	1500	54,000	20.6	45,500	4.2
	Part	7	1150	40,000	27.0	33,500	4.5
GV61	Full	9	1600	66,000	20.3	58,500	4.0
	Part	9	1300	49,500	26.3	43,000	4.3
GV71	Full	10	1750	73,500	18.1	67,500	4.1
	Part	10	1450	56,500	22.0	51,500	4.3

### Heat Pumps with Copper Water Coil

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	88021	GV38S1-AC 3 TON GEOTEC HEAT PUMP COPPER	—
1	EA	88022	GV51S1-AC 4 TON GEOTEC HEAT PUMP COPPER	—
1	EA	88023	GV61S1-AC 5 TON GEOTEC HEAT PUMP COPPER	—
1	EA	88024	GV71S1-AC 6 TON GEOTEC HEAT PUMP COPPER	—
1	EA	88025	GV27S1-AC 2 TON GEOTEC HEAT PUMP COPPER	—

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**Heat Pumps with Cupro-Nickel Water Coil**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	88026	GV38S1-AN 3 TON GEOTEC HEAT PUMP CUPRO-NICKEL	—
1	EA	88027	GV51S1-AN 4 TON GEOTEC HEAT PUMP CUPRO-NICKEL	—
1	EA	88028	GV61S1-AN 5 TON GEOTEC HEAT PUMP CUPRO-NICKEL	—
1	EA	88029	GV71S1-AN 6 TON GEOTEC HEAT PUMP CUPRO-NICKEL	—
1	EA	88030	GV27S1-AN 2 TON GEOTEC HEAT PUMP CUPRO-NICKEL	—

**Electric Heater Packages**

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
GV27S1 and GV38S1	1	EA	88031	EH3GSVA-A09C 9KW ELECTRIC HTR PKG 240/208V	—
GV51S1, 61S1, and 71S1	1	EA	88032	EH5GSVA-A09C 9KW ELECTRIC HTR PKG 240/208V	—
GV51S1, 61S1, and 71S1	1	EA	88033	EH5GSVA-A14C 14KW ELECTRIC HTR PKG	—

**Water Heating Pump Module**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	88034	GVDM-26 5/8" LINE 115V DOMESTIC WATER HTG PUMP MODULE	—

**Accessories**

1	EA	88035	DORFC-2 2 PUMP LOOP MODULE LOOP FLOW CENTER W/CABINET	—
1	EA	88036	DORLFC-1 LOOP FLOW CENTER KIT	—
1	EA	88037	DORB1-S-4HC 1" HOSE BARB LOOP SIDE CONNECTIONS	—
1	EA	88038	GWK-1 GROUND WATER KIT	—
1	EA	88039	CFV-5 3/4" FPT 5 GPM CONSTANT FLOW VALVE	—
1	EA	88040	CFV-6 3/4" FPT 6 GPM CONSTANT FLOW VALVE	—
1	EA	88041	CFV-7 3/4" FPT 7 GPM CONSTANT FLOW VALVE	—
1	EA	88042	CFV-9 3/4" FPT 9 GPM CONSTANT FLOW VALVE	—
1	EA	88043	CFV-10 3/4" FPT 10 GPM CONSTANT FLOW VALVE	—
1	EA	88044	8603-017 1-17 GPM 1" FPT FLOW METER	—
1	EA	88120	8603-030 (5101G) 3/4" FPT 24V BRASS SLOW OPEN/CLOSE VALVE W/ES	—
1	EA	88121	8603-006 1" FPT 24V PVC SOLENOID VALVE	—

**Honeywell Sediment Removing Water Filters with Reverse Rinsing and Rinsable Fine Filters**

1	EA	74230	F76S 1015 WATER FILTER 3/4 INCH SWEAT & THREADED MNPT	—
1	EA	74231	F76S 1023 WATER FILTER 1 INCH SWEAT & THREADED MNPT	—
1	EA	74232	F76S 1031 WATER FILTER 1 1/4 INCH SWEAT & THREADED MNPT	—
1	EA	74233	MV876B 1018 MOTORIZED BACKWASH FOR ALL F76S	—



# Geo-Trio™ Step-Capacity Geothermal Step-Capacity Heat Pumps, R-410A

## High Efficiency, Multi-Capacity, Two-Stage



The Bard Geo-Trio™ Geothermal/Water Source Heat Pump delivers economical year-round comfort by utilizing nature's most abundant and efficient solar energy collector—the earth. The Geo-Trio™ series heat pumps are designed for low water flow rates and offer cooling efficiencies up to 29.1 EER and heating efficiencies up to 4.8 COP on ground water, and cooling efficiencies up to 24.9 EER and heating efficiencies up to 4.4 COP on ground loop.

**Ground Water Application:** Water temp 45° to 75°  
**Ground Loop Application:** Temp range 25° to 110°

- Step capacity compressor
- Liquid line drier
- Thermostatic expansion valve
- High pressure switch
- Low pressure switch
- Control panel
- High efficiency coaxial water coil in either copper or cupronickel
- Indoor air cool
- Lockout circuit
- Variable speed ECM blower motor

Model No	Electrical Rating	Operating Voltage Range	Min. Circuit Ampacity	Compressor				Blower Motor			Shipping Weight (Lbs.)			
				Volts	Rated Load Amps (230/208)	Branch Circuit Selection Current	Locked Rotor Amps (230/208)	Horsepower (ECM Motor)	Volts/Phase/Hz	Motor Amps	"A" Coil Section	"B" Blower Section	"C" Compressor Section	
GTC36S1	230/208-60-1	253-197 VAC	26.0	230/208-60-1	11.2/13.0	16.7	82/82	3/4 Variable Speed	230/208-60-1	3.4	93	102	95	248
GTC48S1			34.0		16.4/19.6		96/96			4.3				260
GTC60S1			38.0		19.2/23.6		25.6			118/118				4.4

Model No.	System Capacity Modulation	Fluid Flow Rate GPM	Airflow CFM	Ground Loop Heat Pump			
				Cooling Brined Full Load 77° F/Part Load 68° F		Heating Brine Full Load 32° F/Part Load 41° F	
				Capacity BTUH	EERBTU/W	Capacity BTUH	COP
				GTC36S1	Full	8	1200
	Part		850	28,000	24.9	22,800	4.40
GTC48S1	Full	12	1500	51,000	16.0	37,500	3.60
	Part		1150	38,000	21.5	31,000	4.05
GTC60S1	Full	15	1800	61,500	15.5	49,000	3.50
	Part		1300	47,500	20.7	39,500	3.90

Model No.	System Capacity Modulation	Fluid Flow Rate GPM	Airflow CFM	Ground Water Heat Pump			
				Cooling—EWT 59° F		Heating—EWT 50° F	
				Capacity BTUH	EER BTU/W	Capacity BTUH	COP
				GTC36S1	Full	6	1200
	Part		850	29,600	29.4	25,000	4.80
GTC48S1	Full	7	1500	54,000	19.0	46,000	4.20
	Part		1150	40,000	24.5	34,000	4.45
GTC60S1	Full	9	1800	63,500	18.8	58,000	4.05
	Part		1300	49,000	24.7	42,000	4.25

### Heat Pump, "A" Coil Section

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	88045	GTA3600UD1-A 3 TON GEO TRIO COIL	—
1	EA	88046	GTA4860UD1-A 4 & 5 TON GEO TRIO COIL	—

### Heat Pump, "B" Blower Section

1	EA	88047	GTB1-A GEO TRIO AIR HANDLER	—
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### Heat Pump, "C" Compressor Section with Copper Water Coil

1	EA	88048	GTC36S1-ADCX 3 TON GEO TRIO COMPRESSOR SEC COPPER	—
1	EA	88049	GTC48S1-ADCX 4 TON GEO TRIO COMPRESSOR SEC COPPER	—
1	EA	88050	GTC60S1-ADCX 5 TON GEO TRIO COMPRESSOR SEC COPPER	—

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**Heat Pump, "C" Compressor Section with Cupro-Nickel Water Coil**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	88051	GTC36S1-ADNX 3 TON GEO TRIO COMPRESSOR SEC CUPRO	—
1	EA	88052	GTC48S1-ADNX 4 TON GEO TRIO COMPRESSOR SEC CUPRO	—
1	EA	88053	GTC60S1-ADNX 5 TON COMPRESSOR SECTION GEO TRIO COMPRESSOR CUPRO-NIC	—

**Duct Heater for Upflow and Horizontal Installation Only**

1	EA	88054	8604-081 9.8KW 240/208V DUCT HEATER UPLOW/HORIZONTAL	—
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**Refrigerant Connections**

1	EA	88055	GTLS-SK2-1 7/8X3/8 STUB KIT W/SINGLE PAIR ENDS	—
1	EA	88056	GTLS-SK4-1 7/8X3/8 STUB KIT W/ DUAL ENDS	—
1	EA	88057	GTLS-03-1 7/8X3/8 3' LINESET W/ FITTINGS	—

**Accessories**

1	EA	88121	8603-006 1" FPT 24V PVC SOLENOID VALVE	—
1	EA	88044	8603-017 1-17 GPM 1" FPT FLOW METER	—
1	EA	88120	8603-030 (5101G) 3/4" FPT 24V BRASS SLOW OPEN/CLOSE VALVE W/ES	—
1	EA	88039	CFV-5 3/4" FPT 5 GPM CONSTANT FLOW VALVE	—
1	EA	88040	CFV-6 3/4" FPT 6 GPM CONSTANT FLOW VALVE	—
1	EA	88041	CFV-7 3/4" FPT 7 GPM CONSTANT FLOW VALVE	—
1	EA	88042	CFV-9 3/4" FPT 9 GPM CONSTANT FLOW VALVE	—
1	EA	88043	CFV-10 3/4" FPT 10 GPM CONSTANT FLOW VALVE	—
1	EA	88037	DORB1-S-4HC 1" HOSE BARB LOOP SIDE CONNECTIONS	—
1	EA	88035	DORFC-2 2 PUMP LOOP MODULE LOOP FLOW CENTER W/CABINET	—
1	EA	88036	DORLFCK-1 LOOP FLOW CENTER KIT	—
1	EA	88060	FR23 16X25X1 FILTER RACK W/ 1" MERV2 FILTER	—
1	EA	88058	GTHZ1 HORIZONTAL DRAIN PAN KIT	—
1	EA	88059	GTLID REMOTE CONDENSER COVER FOR GTC	—
1	EA	88038	GWK-1 GROUND WATER KIT	—

**Honeywell Sediment Removing Water Filters with Reverse Rinsing and Rinsable Fine Filters**

1	EA	74230	F76S 1015 WATER FILTER 3/4 INCH SWEAT & THREADED MNPT	—
1	EA	74231	F76S 1023 WATER FILTER 1 INCH SWEAT & THREADED MNPT	—
1	EA	74232	F76S 1031 WATER FILTER 1 1/4 INCH SWEAT & THREADED MNPT	—
1	EA	74233	MV876B 1018 MOTORIZED BACKWASH FOR ALL F76S	—



# Geothermal Service Parts

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	88081	5152-014 CW 1/2IN 10-9 DD BLOWER WHEEL	—
1	EA	88118	5152-049 1/2IN CW 10-10 DD BLOWER WHEEL	—
1	EA	88080	5152-061 11-12 DD CW BLOWER WHEEL	—
1	EA	88071	5201-009 3/8 BI DIRECT H/P FILTER DRIER	—
1	EA	88070	5201-010 3/8 BI DIRECT H/P FILTER DRIER	—
1	EA	88087	5201-020 H/P LIQUID FILTER DRIER	—
1	EA	88073	5650-038 V38-C1004-BA REVERSING VALVE	—
1	EA	88089	5650-039 REVERSING VALVE	—
1	EA	88072	5650-041 7/8X5/8 REVERSING VALVE	—
1	EA	88078	5651-186 EXPANSION VALVE	—
1	EA	88065	5651-187 EXPANSION VALVE	—
1	EA	88064	5651-188 EXPANSION VALVE	—
1	EA	88063	5651-189 EXPANSION VALVE	—
1	EA	88066	5651-192 EXPANSION VALVE	—
1	EA	88116	5651-210 3/8X3/8 EXPANSION VALVE	—
1	EA	88069	5651-211 EXPANSION VALVE	—
1	EA	88115	5651-212 3/8X3/8 EXPANSION VALVE	—
1	EA	88095	8000-267 ZPS40K4E-PFV-130 COMPRESSOR	—
1	EA	88094	8000-268 ZPS51K4E-PFV-130 COMPRESSOR	—
1	EA	88096	8000-269 ZPS30K4E-PFV-130 COMPRESSOR	—
1	EA	88076	8000-335 ZPS20K4E-PFV-130 COMPRESSOR	—
1	EA	88075	8000-336 ZPS60K4E-PFV-130 COMPRESSOR	—
1	EA	88074	8201-088 COMPRESSOR CONTROL MODULE	—
1	EA	88110	8201-114 CONTROL BOARD	—
1	EA	88079	8201-118 BLOWER CONTROL	—
1	EA	88090	8201-120 GEOTHERMAL LOGIC CONTROL	—
1	EA	88117	8201-121 ECM2.315.0 CONTROL	—
1	EA	88062	8300-010 DESUPERHEATER PUMP ASSY	—
1	EA	88092	8401-033 2 POLE 20 AMP CONTACTOR	—
1	EA	88091	8401-034 2 POLE 40 AMP CONTACTOR	—
1	EA	88098	8402-171 WATER TEMPERATURE LIMIT	—
1	EA	88097	8406-111 540 PSIG HIGH PRESSURE SWITCH	—
1	EA	88114	8406-120 AUOT RESET LOW PRESSURE SWITCH	—
1	EA	88113	8406-121 AUTO RESET LOW PRESSURE SWITCH	—
1	EA	88077	8407-034 40VA 240/24V TRANSFORMER	—
1	EA	88112	8407-035 208/240V TRANSFORMER	—
1	EA	88109	8408-040 INLET THERMISTOR	—
1	EA	88099	8408-043 OUTLET THERMISTOR	—
1	EA	88093	8552-035 40MFD 370V 2IN ROUND CAPACITOR	—
1	EA	88061	8552-086 CAPACITOR	—
1	EA	88068	8552-087 CAPACITOR	—
1	EA	88067	8552-088 CAPACITOR	—
1	EA	88111	910-1765 CIRCULATING PUMP ASSEMBLY	—
1	EA	88086	S8105-056-0054 PROGRAMMED MOTOR SERVICE	—
1	EA	88085	S8106-045-0055 PROGRAMMED MOTOR SERVICE	—
1	EA	88084	S8106-045-0056 PROGRAMMED MOTOR SERVICE	—
1	EA	88119	S8107-009-0074 PROGRAMMED MOTOR SERVICE	—
1	EA	88083	S8107-013-0057 PROGRAMMED MOTOR SERVICE	—
1	EA	88082	S8107-013-0058 PROGRAMMED MOTOR SERVICE	—

**SPACEPAK** ESP Central AC/HP System

**Small Duct, High Velocity**



Install central heating and cooling in any home or small business, regardless of structure design, age, size or type of construction. SpacePak can be located nearly anywhere: attics, basements, crawlspaces, and garages. Horizontal installation. 2 to 5 ton capacity.

**Fan Coil**

- Corrosion-resistant cabinet with baked enamel finish
- Fully insulated with 1-1/2 lbs. density batt
- Six-row copper tube aluminum fin evaporator coil removes up to 30% more humidity than conventional coil
- Blower motor is factory-balanced for vibration-free operation
- Condensate drain connection in base pan for specially-designed, factory-supplied condensate drain assembly
- Factory-assembled, pre-wired control center with high and low voltage terminal blocks, blower relay and low voltage transformer
- Factory-installed anti-frost control and thermal expansion valve
- Standard factory-installed primary drain pan float switch
- Sweat-type suction/liquid line connections
- Meets or exceeds DOE standards for energy efficiency

**ACM Air Control Module**

The ACM provides the ability to adjust supply air flow allowing for energy savings when operating in fan-only mode.

- Stainless steel construction
- Insulated housing
- Mounted actuator
- ETL listed
- Compatible with all plenum duct
- Simple plug-in wiring
- Pre-applied gaskets
- Durable nylon bushings

**Horizontal Fan Coil Units**

Model No.	Nominal System Capacity		Std. CFM @ 1.5" W.C.	Motor Hp	F.L. Amps	Connections		Shipping Wt. (Lbs.)	Recommended Condensing Unit Capacity (MBH)	Dimensions H x W x D (In.)
	Nom. Tons	Cool MBH				Suction Line	Liquid Line			
ESP-2430	2	21.0	550	1/3	1.8	7/8	3/8	120	24	14-1/8 x 24-1/8 x 29-3/8
	2-1/2	24.6	550	1/3	1.8	7/8	3/8	120	30	
ESP-3642	3	33.4	850	1/2	2.8	7/8	3/8	144	36	14-1/8 x 33-1/8 x 29-3/8
	3-1/2	38.5	850	1/2	2.8	7/8	3/8	144	42	
ESP-4860	4	45.0	1150	1	3.6	7/8	3/8	171	48	14-1/8 x 43-1/8 x 29-3/8
	5	54.0	1150	1	3.6	7/8	3/8	171	60	

**Vertical Fan Coil Units**

Model No.	Nominal System Capacity		Std. CFM @ 1.5" W.C.	Motor Hp	F.L. Amps	Connections		Shipping Wt. (Lbs.)	Recommended Condensing Unit Capacity (MBH)	Dimensions H x W x D (In.)
	Nom. Tons	Cool MBH				Suction Line	Liquid Line			
ESP-2430V	2	23.0	550	1/3	1.8	7/8	3/8	135	24	34 x 24 x 16-1/8
	2-1/2	27.6	550	1/3	1.8	7/8	3/8	135	30	
ESP-3642V	3	35.0	850	1/2	2.8	7/8	3/8	170	36	34 x 33 x 16-1/8
	3-1/2	40.0	850	1/2	2.8	7/8	3/8	170	42	
ESP-4860V	4	48.0	1150	1	3.6	7/8	3/8	210	48	34 x 43 x 16-1/8
	5	57.0	1150	1	3.6	7/8	3/8	210	60	

**Horizontal Fan Coil Units**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	87300	ESP2430GH4 2 & 2 1/2 TON G SERIES SPACEPAK	—
1	EA	87301	ESP3642GH4 3 & 3 1/2 TON G SERIES SPACEPAK	—
1	EA	87302	ESP4860GH4 4 & 5 TON G SERIES SPACEPAK	—
1	EA	87311	AC-ACM AIR CONTROL MODULE	—

**Vertical Fan Coil Units**

1	EA	87332	ESP-2430V 2 & 2 1/2 TON V-SERIES SPACEPAK	—
1	EA	87333	ESP-3642V 3 & 3 1/2 TON V-SERIES SPACEPAK	—
1	EA	87334	ESP-4860V 4 & 5 TON V-SERIES SPACEPAK	—



**Typical List of Components Needed for Cooling System**

Qty for 2 Ton	Qty for 2-1/2 Ton	Qty for 3 Ton	Qty for 3-1/2 Ton	Qty for 4 Ton	Qty for 5 Ton	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
25 ft.	25 ft.	35 ft.	35 ft.	45 ft.	50 ft.	50	FT	10741	932 9IN 5FT 30GA PIPE	—
1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	12	EA	11006	120 9IN 30GA ELBOW	—
1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	6	EA	11231	150 9X9X9 TEE	—
2 pcs.	2 pcs.	2 pcs.	2 pcs.	2 pcs.	2 pcs.	12	EA	11259	160 9IN CLEANOUT CAP	—
25 ft.	25 ft.	35 ft.	35 ft.	45 ft.	50 ft.	75	FT	19134	431-6 9IN 5FT SILVER SLEEVE INSULATION	—
1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	4	EA	42419	FG550 1 GAL IN/OUT WATER BASE DUCT SEALANT	—
2 kits	4 kits	3 kits	—	4 kits	—	4	EA	87303	AC-IKLT-2 SPACEPAK INSTALLATION KIT	—
2 kits	4 kits	3 kits	—	4 kits	—	4	EA	87304	AC-TKMR-2 SPACEPAK PLENUM TAKE-OFF KIT	—
2 kits	2 kits	3 kits	5 kits	4 kits	7 kits	1	EA	87305	AC-IKLT-5 SPACEPAK INSTALLATION KIT	—
2 kits	2 kits	3 kits	5 kits	4 kits	7 kits	1	EA	87306	AC-TKMR-5 SPACEPAK PLENUM TAKE-OFF KIT	—
2	3	3	3	4	5	1	EA	87307	AC-ST6-100 100 FT., R6.0 SPACEPAK SUPPLY TUBING	—
1 pc.	1 pc.					3	EA	87308	AC-BASE-2 2 & 2 1/2 TON SPACEPAK SECONDARY DRAINPAN	—
		1 pc.	1 pc.			3	EA	87309	AC-BASE-3 3 & 3 1/2 TON SPACEPAK SECONDARY DRAINPAN	—
				1 pc.	1 pc.	3	EA	87310	AC-BASE-5 4 & 5 TON SPACEPAK SECONDARY DRAINPAN	—
1	1					1	EA	87313	BM-9149 (SPC-1D) 2430 SYSTEM RETURN AIR BOX	—
1 pc.	1 pc.					1	EA	87314	BM-6808-10 (SPC-4) 10 FT. 2430 RETURN AIR DUCT	—
		1	1			1	EA	87315	AC-RBF-3 3642 SYSTEM RETURN AIR BOX	—
		1 pc.	1 pc.			1	EA	87316	BM-6809-10 (SPC-5) 10 FT. 3642 RETURN AIR DUCT	—
				1	1	1	EA	87317	BM-9169 (SPC-3D) 4860 SYSTEM RETURN AIR BOX	—
				1 pc.	1 pc.	1	EA	87318	BM-6839-10 (SPC-6) 10 FT. 4860 RETURN AIR DUCT	—
1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.	1	EA	87319	BM-4001 9 INCH ROUND SPACEPAK PLENUM ADAPTOR	—

Quantities based on 7 take-offs per ton and supply air runs of 15 ft. each (12 ft. of supply tubing plus the 3 ft. of sound attenuating tube).



**MG9S Series Gas Furnace**  
For Mobile Homes, High Efficiency



- Zero clearance feature allows these furnaces to be installed where space is at a premium.
- Conversion to propane gas is fast and easy. All models are provided with a convertible gas valve and gas orifices for both natural and propane gas.
- Universal disposable filters clean the air and are easy to replace.
- Compact, easy to install, ideal height 33" tall cabinet.
- Blower-off-delay for cooling SEER improvement.
- Easy access to controls to connect power/control wiring.
- Low unit amp requirement for easy replacement application.
- 100% shut off main gas valve for extra safety.
- 24V, 40 VA control transformer and blower relay supplied for add-on cooling.
- Hi-tech tubular aluminized steel primary heat exchanger.
- Secondary heat exchanger made of corrosion resistant stainless steel materials.
- Timed on, adjustable off blower capability for maximum comfort.
- Solid removable bottom panel allows easy conversion.
- Fully supported blower assembly for easy access and removal of blower.

Model	Input (MBH)	Output (MBH)	Nominal Airflow (CFM)	AFUE	Air Temp. Rise (°F)	Max. Outlet Air Temp. (°F)	Blower		Blower Size	Max Over-Current Protect	Total Units Amp	Cabinet Dimensions H x W x D (In.)	Shipping Weight (Lbs.)
							HP	Amps					
MG9S060B12MP11	60	57	1200	95.5	30-60	160	1/3	4.8	11 x 8	15	10.0	33 x 17-1/2 x 29-1/2	122
MG9S080B12MP	80	76	1200	95.5	35-65	165	1/3	4.8	11 x 8	15	10.0	33 x 16-3/8 x 29-1/2	126

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	85042	MG9S060B12MP11 33X17.5X29.5 60,000 BTU 95% RED T MOBILE HOME FURNACE	—
1	EA	85048	MG9S080B12MP11 33X17.5X29.5 80,000 BTU 95% RED T MOBILE HOME FURNACE	—
1	EA	85047	9155-835 MG9S COIL CABINET	—



## VMA Series Gas Furnaces For Mobile Homes



- Easy conversion from natural gas to propane
- A/C ready-up to 3.0 tons
- 4-speed blower easily adapted to air flow needs of the home
- 22-gauge powder coated cabinet for durability
- Silicon nitride igniter for quiet and consistent light-off
- 4 speed direct drive blower for quiet, efficient operation
- Sealed combustion design provides draws combustion air from the outside
- Heavy-duty 18-gauge heat exchanger for long life
- Easily converted from Natural Gas to L.P.
- Energy Star Certified
- ETL Listed
- Lifetime heat exchanger warranty
- 5 year parts warranty

Model No.	Input (BTU)	Output (BTUH)	AFUE	Tonnage	Nom. Temp. Rise (° F)	Vent Pipe Size	Dimensions (H x W x D) (In.)	Electric Service	Max Fuse Size	Total Rated Current Amps	Supply Air Outlet Size (W x D) (In.)	Ship Weight (Lbs.)
08540001	50,000	48,000	95%	3	60	2" PVC	57 x 18 x 25-3/4	115/60/1	15	7.15	12 x 12	175
08540002	75,000	72,000	95%	4	60	2" PVC	57 x 18 x 25-3/4	115/60/1	15	7.15	12 x 12	175

### Furnaces

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	85065	8540001 57X18X26 48,000 BTU VEXAR VMA 95% MH FURNACE	—
1	EA	85066	8540002 57X18X26 72,000 BTU VEXAR VMA 95% MH FURNACE	—

### Accessories

1	EA	85067	0856001 V70-BASE VEXAR COMBUSTIBLE BASE	—
1	EA	85068	0856002 VAOPS7483 VEXAR CONCENTRIC VENT KIT	—
1	EA	85069	0856003 20" VMA VEXAR COIL CABINET	—



## DG Series Gas Furnaces for Mobile Homes



The DG Series gas furnace is two systems in one. As a powerful air handler, it can handle up to 4 tons of cooling. Additional blower accessories will provide 5 tons of cooling. As a gas furnace, its range of heating capacities makes it a perfect match for the heating requirements of almost any manufactured home.

- Zero clearance feature allows these furnaces to be installed where space is a premium.
- Molded contour white upper panel provides an attractive modern appearance and offers a scratch resistant, durable appliance finish.
- Aluminized steel heat exchanger provides efficient operation and unmatched corrosion resistance.
- Universal disposal filters clean the air and are easy to replace.

Model Number	DGAA056BDTA	DGAA070BDTA	DGAA077BDTA	DGAA090BDTA	DGAH077BBSA
Factory Equipped Fuel	Natural Gas/LP Conversion Kit Included				
Ignition Type	Automatic Hot Surface Ignition				
A/C Controls	A/C Ready				Heat
Input Rate, BTUH	56,000	70,000	77,000	90,000	77,000
Output, BTUH	45,000	56,000	62,000	72,000	62,000
AFUE, % (Nat./LP)	80.0	80.0	80.0	80.0	80.0
High Altitude	For elevations above 2,000 feet, reduce input 4% for each 1,000 feet of elevation above sea level				
Air Temperature Rise Range, ° F	45-75				
Designed Maximum Outlet Air Temperature, ° F	165				
Maximum External Static Pressure, In. W.C.	0.3				
Furnace Flue Pipe	Must use 4000 Series Roof Jacks				
Gas Connection	1/2" NFPT				
Electric Service	115 VAC, 60 Hz, 1 Phase				
Fuse or Circuit Breaker	15 Amp Maximum				
Thermostat Circuit	24 VAC 60 Hz				
Filters (In.)	Two 16 x 20 x 1				
Dimensions (In.)	76 x 19-1/2 x 24-1/2				60 x 19-1/2 x 24-1/2
Weight (Lbs.)	145	145	146	159	131

### Furnaces

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	85004	DGAA056BDTB 76X19.5X24.5 45,000 BTU RED T MOBILE HOME FURNACE	—
1	EA	85000	DGAA070BDTB 76X19.5X24.5 56,000 BTU RED T MOBILE HOME FURNACE	—
1	EA	85007	DGAH077BBSA 60X19.5X24.5 62,000 BTU RED T MOBILE HOME FURNACE	—
1	EA	85005	DGAA077BDTA 76X19.5X24.5 62,000 BTU RED T MOBILE HOME FURNACE	—
1	EA	85001	DGAA090BDTB 76X19.5X24.5 72,000 BTU RED T MOBILE HOME FURNACE	—

### Roof Jacks and Sealant

1	EA	85018	4000-4241 ROOF JACK HYDROMENT SEALANT	—
1	EA	85019	4000-7101/C 86"-95" ROOF JACK	—
1	EA	85002	4000-7121/C 91"-102" ROOF JACK	—
1	EA	85003	4000-7141/C 99"-120" ROOF JACK	—
1	EA	85020	4000-7151/C 106"-132" ROOF JACK	—
1	EA	85021	4000-7171/C 143"-173" ROOF JACK	—

### Extensions

6	EA	85036	7900A6111 11" INTERIOR EXTENSION	—
6	EA	85037	7900A6171 17" INTERIOR EXTENSION	—
1	EA	85038	7680B6541 18" EXTERIOR EXTENSION	—

### Duct Connectors

1	EA	85031	7990-6221 2" DUCT CONNECTOR	—
1	EA	85032	7990-6261 6" DUCT CONNECTOR	—

### Control Boxes

1	EA	85024	7900-6021 2 WIRE CONTROL BOX	—
1	EA	85035	7900A6041 4 WIRE CONTROL BOX	—

### Blower Assembly

1	EA	85025	7900-6061/A 2 SPEED MOTOR WHEEL HOUSING	—
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Replacement Parts

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	85008	025.41021.000 RED T HOT SURFACE IGNITOR	—
1	EA	85009	1468-2199 BLEND AIR MOTOR	—
1	EA	85010	024.35603.000 2 SPEED BLOWER MOTOR	—
1	EA	85011	1474-0041 IGNITION MODULE	—
1	EA	85012	1474-0061A IGNITION MODULE	—
1	EA	85016	3110-3571 SEQUENCER	—
1	EA	85017	373-19801-821 BOOSTER ASSEMBLY EXHAUST MOTOR SILVER TIN CAN	—
1	EA	85022	7681-317P LOWER BLEND CONTROL BOARD	—
1	EA	85023	7681-318P UPPER BLEND CONTROL BOARD	—
1	EA	85026	7956-336P GAS VALVE STANDING PILOT	—
1	EA	85027	7966-311P 1/6 BLOWER MOTOR	—
1	EA	85028	7975-3281 FAN SWITCH 2 WIRE	—
1	EA	85029	S1-03101932001 DGAA/DGAH CONTROL BOARD	—
1	EA	85033	7990-6451 EXHAUST MOTOR WHEEL & HOUSING	—
1	EA	85034	8665-5701 BOOSTER RELAY	—
1	EA	85039	7975.388P REMOTE SENSOR	—
1	EA	85040	324.35972.000 PRESSURE SWITCH	—
1	EA	85041	025.35354.000 FLAME SENSOR	—
1	EA	85043	025.43267 GAS VALVE	—
1	EA	85056	7990-319P DGAT CONTROL BOARD(SCREW ON WIRES)	—



**EB Series Electric Furnaces  
For Mobile Homes**



- Heat pump and A/C ready
- Built-in insulated coil cabinet
- 4 ton A/C, 3-1/2 ton heat pump blower capacity
- Full sequenced heat to protect home electronics
- Upflow/downflow convertible
- Top/front return air convertible
- Universal throw-away filter cleans the air, and is easy to replace
- Built-in coil cabinet
- Sound absorbing insulation for quieter operation
- Pre-painted white front panels provides an attractive, scratch resistant, easy to clean appliance finish
- Equipped with built-in circuit breakers instead of fuses

Model No.	KW	Output BTU	CFM @.3" W.C.	Dimensions H x W x D (In.)	Weight (Lbs.)
EB10D	10	34,000	924	51-1/2 x 19-1/2 x 24	83
EB12D	12	39,000	924	51-1/2 x 19-1/2 x 24	84
EB15D	15	51,000	924	51-1/2 x 19-1/2 x 24	85
EB20D	20	67,000	1140	51-1/2 x 19-1/2 x 24	84

Furnaces

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	85060	EB10D 51.5X19.5X24 34,000 BTU REDT ELECTRIC MH FURNACE	—
1	EA	85061	EB12D 51.5X19.5X24 39,000 BTU REDT ELECTRIC MH FURNACE	—
1	EA	85062	EB15D 51.5X19.5X24 51,000 BTU REDT ELECTRIC MH FURNACE	—
1	EA	85063	EB20D 51.5X19.5X24 67,000 BTU REDT ELECTRIC MH FURNACE	—

Coil Shelf

1	EA	85064	3500-8941B EB FURNACE COIL SHELF KIT	—
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## VEXAR® Manufactured Housing Coils



- Factory installed TXV valve suitable for A/C or H/P applications
- Coil has built-in strainer for coil protection
- UL listed and leak tested to 500 psi with code approved 2-opening drain pan
- Dry-type pan does not maintain standing water
- Kit contains drain hose, fittings, and furnace cover plates for gas/oil furnaces

Model Number	Connections (In.)	Nominal Size	Dimensions (H x W x D) (In.)
<b>R-22</b>			
1836SA	Sweat 3/8, 3/4	1.5-3.0	14 x 18 x 19-5/8
1849SA	Sweat 3/8, 7/8	2.5-4.0	18 x 18 x 19-5/8
1854SA	Sweat 3/8, 7/8	2.5-5.0	18-1/2 x 18 x 19-5/8
<b>R-410A</b>			
1830S4A	Sweat 3/8, 3/4	1.5-2.0	14 x 18 x 19-5/8
1836S4A	Sweat 3/8, 3/4	2.0-3.0	18 x 18 x 19-5/8
1843S4A	Sweat 3/8, 7/8	2.5-3.5	16-1/2 x 18 x 19-5/8
1854S4A	Sweat 3/8, 7/8	4.0-5.0	18-1/2 x 18 x 19-5/8

### R-22 Coils

Non-Stock Items, Special Order Only

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	85013	1836SA 1.5- 3 TON R22 COIL SWEAT	—
1	EA	85014	1849SA 2.5 - 4 TON R22 COIL SWEAT	—
1	EA	85015	1854SA 2.5-5 TON R22 COIL SWEAT	—

### R-410A Coils

1	EA	85049	1830S4A 1.5 - 2 TON R410A SWEAT COIL	—
1	EA	85044	1836S4A 2 - 3 TON R410A SWEAT COIL	—
1	EA	85045	1843S4A 2.5 - 3.5 TON R410A SWEAT COIL	—
1	EA	85046	1854S4A 4.0- 5.0 TON R410A SWEAT COIL	—

### TXV Kits

1	EA	64425	TX2N2 TXV KIT - R22	—
2	EA	64498	TX3N2 TXV KIT - R22	—
2	EA	64500	TX5N2 TXV KIT - R22	—



## M Series Manufactured Housing Evaporator Coils

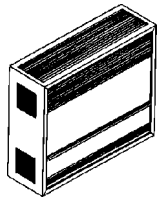


- Filter friendly top plate allows an air filter to be placed directly on top of coil
- Sized out downturned headers for easy line brazing
- Sweat connections with available quick connect stub kits
- TXV with all threaded connections; no brazing required
- Coils charged with dry air for greater flexibility with both R-22 and R-410A applications

Model No.	Nominal Tonnage	Pan Width (In.)	Pan Depth (In.)	Coil Height	Weight (Lbs.)
M3 6E326	1.5-3	18	19-1/2	15	8
M36E346	1.5-3	18	19-1/2	19	8
M60E596	1.5-5.0	18	19-1/2	19	8

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
8	EA	84044	M36E326 1.5-3 TON 18X19.5X15 MOBILE HOME COIL	—
8	EA	84045	M36E346 2.5-3.5 TON 18X19.5X19 MOBILE HOME COIL	—
8	EA	84046	M60E596 3.5-5.0 TON 18X19.5X19 MOBILE HOME M COIL	—

**WILLIAMS Direct Vent Home Furnaces**



- Approved for garage and bedroom applications.
- MV control system; requires no electricity.
- Sealed combustion; uses no inside air.
- Matchless push button pilot ignitor.
- All vent material included—ready to install.
- Optional blower fits inside casing.

Model No.	Input BTU/Hr.	Output BTU/Hr.	Cabinet Dimensions (In.)			Shipping Weight(Lbs.)
			Width	Height	Depth	
1403622	14,000	10,039	18	26-3/4	7-1/8	56
2203622	22,000	16,462	32-1/8	28	10-1/4	98
3003622	30,000	21,849	32-1/8	28	10-1/4	100

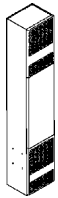
**Natural Gas Models with Standing Pilot and Cabinet or Wall-Mounted MV Thermostat**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	61216	1403622 14000BTU NAT DV HOME HTR	—
1	EA	61217	2203622 22000BTU NAT DV HOME HTR	—
1	EA	61218	3003622 30000BTU NAT DV HOME HTR	—

**LP Kits for Direct Vent Home Furnaces**

1	EA	61247	8925 LP CONVERSION KIT FOR 14K	—
1	EA	61250	8927 LP CONVERSION KIT FOR 30K	—

**WILLIAMS Forsaire Direct Vent Furnaces**



- Approved for garage and bedroom applications.
- Sealed combustion; uses no inside air.
- Counterflow design can be recessed or surface mounted.
- Powerful blower delivers warm air at floor level.
- Heavy gauge aluminized steel heat exchanger.
- Heavy gauge textured metal cabinet for added strength.
- Electrostatically applied powder paint coating.
- Matchless pilot ignitor.

Model No.	Input BTU/Hr.	Output BTU/Hr.	Thermal Efficiency	Cabinet Dimensions (In.)			Shipping Weight (Lbs.)
				Width	Height	Depth	
4007732	40,000	32,000	80%	14-1/8	77-3/8	11-3/4	126
6257732	62,500	50,000	80%	14-1/8	87	11-3/4	140
4007332	40,000	32,000	80%	14-1/8	77-3/8	11-3/4	126
5507332	55,000	44,000	80%	14-1/8	87	11-3/4	140

**Natural Gas Models with Standing Pilot and 24V Wall Thermostat**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	61206	4007732 40000BTU NAT FORSAIRE HTR	—
1	EA	61208	6257732 62500BTU NAT FORSAIRE HTR 2 CTNS	—

**Natural Gas Models with Intermittent Electric Ignition and 24V Wall Thermostat**

1	EA	61606	4007332 40000BTU NAT FORSAIRE HTR 2 CTNS	—
1	EA	61605	5507332 55000BTU NAT FORSAIRE HTR 2 CTNS	—

**LP Kits for Forsaire Direct Vent Units**

1	EA	61654	7686 LP CONVERSION KIT FOR 40K	—
1	EA	61679	7688 LP CONVERSION KIT FOR 55K	—
1	EA	61684	7689 LP CONVERSION KIT FOR 62.5K	—

## WILLIAMS Forsaire Top Vent Forced Air Furnaces



- Counterflow design can be recessed or surface mounted.
- Powerful blower delivers warm air at floor level.
- Heavy gauge aluminized steel heat exchanger.
- Heavy gauge textured metal cabinet for added strength.
- Electrostatically applied powder paint coating.
- Matchless pilot ignitor.

Model. No	Input BTU/Hr.	Output BTU/Hr.	Thermal Efficiency	Cabinet Dimensions (In.)			Shipping Weight (Lbs.)
				Width	Height	Depth	
3508732	35,000	28,000	80%	14-1/8	72-1/2	10-1/4	90
5008732	50,000	40,000	80%	14-1/8	81	10-1/4	99
6508732	65,000	52,000	80%	14-1/8	87	10-1/4	107
6008532	60,000	48,600	82%	14-1/8	80-1/4	10-1/4	121
3508332	35,000	28,000	80%	14-1/8	72-1/2	10-1/4	95
5508332	55,000	44,000	80%	14-1/8	87	10-1/4	113

### Natural Gas Models with Standing Pilot and 24V Wall Thermostat

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	61613	3508732 35000BTU NAT FORSAIRE HTR	—
1	EA	61214	5008732 50000BTU NAT FORSAIRE HTR	—
1	EA	61947	6008532 60000BTU NAT MAGNUM FORSAIRE HTR	—
1	EA	61213	6508732 65000BTU NAT FORSAIRE HTR	—

### Natural Gas Models with Intermittent Ignition and 24V Wall Thermostat

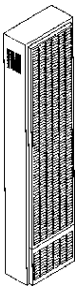
1	EA	61615	3508332 35000BTU NAT FORSAIRE HTR	—
1	EA	61614	5508332 55000BTU NAT FORSAIRE HTR	—

### LP Kits for Forsaire Top Vent Units

1	EA	61652	7685 LP CONVERSION KIT FOR 35K	—
1	EA	61678	7687 LP CONVERSION KIT FOR 50K	—
1	EA	61679	7688 LP CONVERSION KIT FOR 55K	—
1	EA	61685	7690 LP CONVERSION KIT FOR 65K	—

## WILLIAMS Monterey SRO Top Vent Home Furnaces

### Higher Efficiency than other Gravity Heaters



#### 35096 Series

A single wall gravity furnace and must be recessed between the studs of an interior wall and will have a face panel in one room.

#### 50096 Series

A dual wall gravity furnace and must be recessed between the studs of an interior wall and has two face panels, one in each room.

#### Design Features

- Fits hole in the wall—an easy replacement installation.
- Heavy gauge ceramic coated steel combustion chamber.
- Optional blower mounts on top of face panel.
- MV control system—no electricity required
- Matchless pilot ignitor.
- Side relief outlet.

Model. No	Input BTU/Hr.	Output BTU/Hr.	Thermal Efficiency	Cabinet Dimensions (In.)			Shipping Weight (Lbs.)
				Width	Height	Depth	
3509622	35,000	25,930	74%	16	65-3/4	6	83
5009622	50,000	38,500	77%	16	65-3/4	6	137

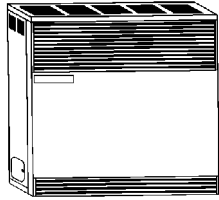
### Natural Gas Models with Standing Pilot and Cabinet or Wall-Mounted MV Thermostat

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	61622	3509622 35000BTU NAT MONTEREY HTR	—
1	EA	61628	5009622 50000BTU NAT MONTEREY HTR	—

### LP Kits for Monterey Units

1	EA	61132	8902 LP CONVERSION KIT FOR 35K	—
1	EA	61134	8903 LP CONVERSION KIT FOR 50K	—

**WILLIAMS Vented Gas Hearth Console Heaters**  
**Enclosed Front Models**

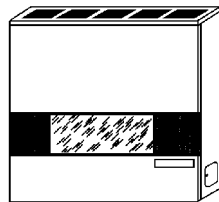


- Built-in draft diverter to permit close-to-wall installation.
- Continuous seam-welded aluminized steel combustion chambers for maximum safety, circulation, durability and heat transfer.
- Low BTU/Hr.-type pilot for reduced fuel consumption.
- Vent shut-off system for added safety.
- Contemporary, heat resistant finish to blend with any decor.
- Equipped with blower.

Model No	Input BTU/Hr.	Output BTU/Hr.	Vent Size (In.)	Cabinet Dimensions (In.)			Shipping Weight (Lbs.)
				Width	Height	Depth	
3501922	35,000	26,250	4	25	28-7/8	15-3/8	83
5001922	50,000	37,500	4	30	32-7/8	16	112
6501922	65,000	50,400	5	34	32-7/8	19-5/8	137

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	61629	3501922 35000BTU NAT VENTED HEARTH HTR	—
1	EA	61653	5001922 50000BTU NAT VENTED HEARTH HTR	—
1	EA	61658	6501922 65000BTU NAT VENTED HEARTH HTR	—

**WILLIAMS Vented Gas Hearth Console Heaters**  
**Fireplace Look**



- Built-in draft diverter to permit close-to-wall installation.
- Factory installed ceramic fiber logs.
- Continuous seam-welded aluminized steel combustion chambers for maximum safety, circulation, durability and heat transfer.
- Low BTU/Hr.-type pilot for reduced fuel consumption.
- Vent shut-off system for added safety.
- Contemporary, heat resistant finish to blend with any decor.
- Equipped with blower.

Model No	Input BTU/Hr.	Output BTU/Hr.	Vent Size (In.)	Cabinet Dimensions (In.)			Shipping Weight (Lbs.)
				Width	Height	Depth	
3502922	35,000	26,250	4	25	28-7/8	15-3/8	83
5002922	50,000	37,500	4	30	32-7/8	16	112
6502922	65,000	50,400	5	34	32-7/8	19-5/8	137

**Fireplace Look, Natural Gas Models with Standing Pilot and Cabinet or Wall-Mounted MV Thermostat**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	61660	3502922 35000BTU NAT VENTED HEARTH HTR	—
1	EA	61661	5002922 50000BTU NAT VENTED HEARTH HTR	—
1	EA	61663	6502922 65000BTU NAT VENTED HEARTH HTR	—

**LP Kits for Hearth Console Heaters**

1	EA	61136	8932 LP CONVERSION KIT FOR 35K	—
1	EA	61135	8933 LP CONVERSION KIT FOR 50K	—
1	EA	61137	8934 LP CONVERSION KIT FOR 65K	—

**Hearth Heater Accessories**

1	EA	61623	4167 BLACK FLOORBOARD FOR 20K & 35K	—
1	EA	61626	4163 BLACK FLOORBOARD FOR 50K & 65K	—




**WILLIAMS Accessories**

For Use with the Following	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
Chamberlain 22036, 30036	1	EA	61224	2302 BLOWER PACKAGE	—
Chamberlain 14036	1	EA	61683	2303 BLOWER PACKAGE	—
Monterey SRO 35096, 50096	1	EA	61221	2901 9FG41 BLOWER PACKAGE	—
Forsaire Top Vent and Direct Vent Models	1	EA	61609	6702 7SCG4 SIDE CASING GRILL KIT	—
Forsaire Top Vent and Direct Vent Models	1	EA	61610	6703 7DG2W 2 WAY DIFFUSING GRILLE	—
Forsaire Top Vent Models	1	EA	61618	6801 7R02W REAR OUTLET KIT 10"	—
Monterey SRO 35096	1	EA	61220	6901 9RD16 REAR DISCHARGE KIT	—
Chamberlain 22036, 30036	1	EA	61226	9301 6VE15B VENT EXT PKG	—
Forsaire Direct Vent Models	1	EA	61620	9808 24" VENT TUBE	—
Forsaire Top Vent Models	1	EA	61624	9901 9RVK04 OVAL VENT STARTER F/TOP VENTS	—
Forsaire Top Vent Models/Monterey Magnum Plus	1	EA	61531	9902 VENT ADAPTER	—



For Use with the Following	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
DNV40	1	EA	66157	160994 NAT GAS VALVE	—
DNV40	1	EA	66321	230681 MICRO SWITCH	—
DNV40	1	EA	66323	231136 MOTOR	—
DNV25	1	EA	66325	231389 MOTOR	—
DNV25 & 40	1	EA	66328	231959 GLO-BAR	—
DNV40	1	EA	66167	232774 WIRING HARNESS F/40K THRU-THE-WALL FURNACE	—
DNV25	1	EA	66165	232775 WIRING HARNESS F/25K THRU-THE-WALL FURNACE	—
DNV25 & 40	1	EA	66162	520899 IGN/MODULE BOARD	—
All RHB and EHB Consoles; 2101and 2102, "B" Blower	1	EA	61500	7106 MOTOR REPLACEMENT KIT	—
All Consoles	1	EA	61925	7109 FAN LIMIT SWITCH W/ADJ TEMP	—
DV Home Furnaces	1	EA	61941	7131 GAS VALVE REPL KIT	—
Consoles	1	EA	61943	7135 GAS VALVE REPL KIT	—
50M Monterey	1	EA	61944	7137 GAS VALVE REPL KIT	—
40M DV IID	1	EA	61602	7707 NAT GAS REPL KIT F/40M DV IID	—
35M Forsaire TV	1	EA	61506	7810 MOTOR REPLACEMENT KIT	—
All Forsaires	1	EA	61619	9807 15" VENT TUBE	—
65M Forsaire TV; All Forsaire Mag.	1	EA	61915	P014300 FAN BLADE	—
All Forsaires	1	EA	61501	P024200 TRANSFORMER	—
50M, 55M Forsaire TV; 55M, 62M Forsaire DV	1	EA	61503	P062101 MOTOR	—
40M Forsaire DV	1	EA	61497	P151101 MOTOR	—
14M, 22M, 30M Direct Vents	1	EA	60067	P179500 PILOT	—
All Forsaire DV, TV, and Mag. TV	1	EA	61514	P200200 FAN SWITCH	—
40M Forsaire DV; 50M, 65M Forsaire TV	1	EA	61515	P200300 LIMIT SWITCH	—
50M, 55M Forsaire TV; 40M, 55M, 62M Forsaire DV	1	EA	61517	P200600 12" FAN BLADE	—
All Forsaires	1	EA	61502	P254000 THERMOCOUPLE	—
All Chamberlain; All Forsaire DV	1	EA	61921	P285500 SPARK IGNITOR	—
DV Home Furnaces	1	EA	61689	P295200A VALVE	—
60M Forsaire TV	1	EA	61529	P296201 FAN DISC SWITCH	—
35M Forsaire TV	1	EA	60040	P300500 FAN BLADE	—
35M Forsaire TV	1	EA	60056	P309600 LIMIT SWITCH	—
50M Monterey SRO (Bat Wing)	1	EA	60045	P320758 CARRYOVER PILOT NAT	—
2901, 9FG41 Blower Accessory	1	EA	61496	P320905 2-SPD MOTOR	—
65M Forsaire TV; 62M Forsaire DV; All Forsaire Mag.	1	EA	60044	P321601 MOTOR	—
35M, 50M, 65M Forsaire	1	EA	60059	P321900 IGNITION CONTROL	—
All Forsaire Mag.	1	EA	60057	P321958 VENT LIMIT SWITCH	—
Monterey; Chamberlain; Consoles	1	EA	61682	P322016 MV THERMOSTAT	—
50M, 65M Forsaire TV	1	EA	61936	P322391 TERMINAL BLOCK THERMOCOUPLE	—
Monterey, Magnum Plus, Consoles	1	EA	60071	P323011 VALVE WALL STAT NAT	—
All Consoles	1	EA	61914	P323096 FAN SWITCH	—
All Forsaires	1	EA	60062	P323209 VALVE 24V STAND PILOT NAT	—
Monterey; Forsaire TV; Mobile	1	EA	61499	P323379 VENT LIMIT SWITCH	—
35M Monterey; Consoles	1	EA	61680	P323411 (P501617) PILOT PG-9 W/GENERATOR FOR 35M	—
All Chamberlain	1	EA	61690	P323415 (P322398) PILOT PG-9 W/GENERATOR	—
40M and 55M Forsaire	1	EA	60068	P323418 PILOT	—
65M Consoles	1	EA	61924	P500118 VENT LIMIT SWITCH FOR 65M	—
50M Consoles	1	EA	61913	P500406 VENT LIMIT SWITCH FOR 50M	—
35M Consoles	1	EA	61912	P500472 VENT LIMIT SWITCH FOR 35M	—

## ADAMS Parts and Accessories

MANUFACTURING COMPANY

For KAS/EKAS Series Unit Heaters

Use with Model	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
All Prior 1988	1	EA	60715	6318B1 FAN SWITCH	—

# REZNOR® UDAP Low Static Axial Fan Unit Heaters

## Power Vented



Reznor® V3 Series Model UDAP gas-fired unit heaters are available in 14 sizes ranging from 30,000 to 400,000 BTUH gas input. Sizes 30–125 are approved for residential application. All sizes are approved for comm./ industrial installations. Model UDAP heaters are designed for 82–84% thermal efficiency and are approved for installation in the United States and Canada by the Canadian Standards Association (CSA).

- New T-core 2° design titanium stabilized aluminized steel heat exchanger (patent pending).
- New T-core 2° design single burner combustion system including a one-piece burner assembly (patent pending)
- 115/1/60 supply voltage.
- 115 volt open fan motor with internal overload protection.
- Transformer for 24-volt controls.

- Integrated circuit board with diagnostic indicator lights.
- Fan relay (included on the circuit board).
- Multi-try direct spark ignition with 100% lockout.
- Natural or propane single-stage gas valve (field adjustable for operation to 9,000 ft. elevation).
- Vibration/noise isolated fan and venter motors designed for low noise operation.
- 2-pt and 4-pt suspension standard on all sizes.
- External terminal strip for 24-volt wiring.
- External gas connection.
- Full fan guard engineered for safety.
- Improved cabinet design with less visible hardware and a new Reznor appearance.
- Design certified by SA and CGA.

Model No.	30	45	60	75	100	125	150	175	200	225	250	300	350	400
BTUH Input	30,000	45,000	60,000	75,000	105,000	120,000	150,000	175,000	200,000	225,000	250,000	300,000	350,000	400,000
Thermal Eff. (%)	82	83	83	84	84	84	83	83	83	83	83	83	83	83
BTUH Output*	24,600	37,350	49,800	63,000	88,200	100,800	124,500	145,250	166,000	186,750	207,500	249,000	290,500	332,000
Gas Conn. (In.) Nat. ‡	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	3/4	¾	3/4
Vent Conn. Size (In.) Diametert	4	4	4	4	4	4	5	5	5	5	5	6	6	6
Control Amps (24V)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Full Load Amps (115V)	1.9	2.4	2.4	3.3	3.9	5.1	3.8	3.8	4.6	7.5	7.5	10.7	10.7	10.7
Max. Over Current Protection (115V)D	15	15	15	15	15	15	15	15	15	15	15	20	20	20
Fan Motor HP**	0.02	0.03	0.03	0.06	1/30	1/20	1/6	1/6	1/6	1/4	1/4	1/2	1/2	1/2
Fan Motor RPM	1550	1550	1550	1550	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Fan Diameter (In.)	10	10	12	12	16	16	18	18	18	20	20	24	24	24
Approx. Net Wt. (Lbs.)	54	59	67	72	96	101	172	187	187	203	215	269	294	306
Approx. Ship Wt. (Lbs.)	61	66	74	79	118	123	204	219	219	245	257	321	346	358

\* CSA ratings for altitudes to 2000 feet. ‡ Size shown is for gas to a single-stage gas valves, not supply line size.

† Smaller and/or larger vent pipe diameters may be permissible; refer to the Venting Installation Manual for Power Vented Units. D MOPD = 2.25 x (largest motor FLA) + smallest motor FLA. Answer is rounded to the nearest commercially available circuit breaker.

\*\* All other

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	67697	RZUDAP30 30,000 BTUH V3 POWER VENT UNIT HEATER	—	—
1	EA	67698	RZUDAP45 45,000 BTUH V3 POWER VENT UNIT HEATER	—	—
1	EA	67699	RZUDAP60 60,000 BTUH V3 POWER VENT UNIT HEATER	—	—
1	EA	67700	RZUDAP75 75,000 BTUH V3 POWER VENT UNIT HEATER	—	—
1	EA	67701	RZUDAP100 100,000 BTUH V3 POWER VENT UNIT HEATER	—	—
1	EA	67702	RZUDAP125 125,000 BTUH V3 POWER VENT UNIT HEATER	—	—
1	EA	67703	RZUDAP150 150,000 BTUH V3 POWER VENT UNIT HEATER	—	—
1	EA	67704	RZUDAP175 175,000 BTUH V3 POWER VENT UNIT HEATER	—	—
1	EA	67705	RZUDAP200 200,000 BTUH V3 POWER VENT UNIT HEATER	—	—
1	EA	67706	RZUDAP225 225,000 BTUH V3 POWER VENT UNIT HEATER	—	—
1	EA	67707	RZUDAP250 250,000 BTUH V3 POWER VENT UNIT HEATER	—	—
1	EA	67708	RZUDAP300 300,000 BTUH V3 POWER VENT UNIT HEATER	—	—
1	EA	67709	RZUDAP350 350,000 BTUH V3 POWER VENT UNIT HEATER	—	—
1	EA	67710	RZUDAP400 400,000 BTUH V3 POWER VENT UNIT HEATER	—	—

# REZNOR® UDAS Low Static Unit Heaters

## Separated Combustion



Reznor® V3 Series Model UDAS gas-fired separated combustion unit heaters are available in 14 sizes ranging from 30,000 to 400,000 BTUH gas input. Sizes 30–125 are approved for residential application. All sizes are approved for commercial/industrial installations. Model UDAS heaters are designed for 82–84% thermal efficiency and are approved for installation in the United States and Canada by the Canadian Standards Association (CSA).

- New T-core2® design titanium stabilized aluminized steel heat exchanger (patent pending).
- New T-core2® single burner combustion system including a one-piece burner assembly (patent pending).

- 115/1/60 supply voltage.
- Integrated circuit board with diagnostic indicator lights.
- Multi-try direct ignition with 100% lockout.
- Fan relay (included on the circuit board).
- Natural or propane single-stage gas valve (field adjustable for operation to 9,000 ft. elevation).
- Vibration/noise isolated fan and venter motors designed for low noise operation.
- 2-pt and 4-pt suspension standard on all sizes.
- External terminal strip for 24-volt wiring.
- External gas connection.
- Full fan guard engineered for safety.
- Improved cabinet design with less visible hardware and a new Reznor appearance.
- Design certified by SA and CGA.

Model No.	30	45	60	75	100	125	150	175	200	225	250	300	350	400
BTUH Input	30,000	45,000	60,000	75,000	105,000	120,000	150,000	175,000	200,000	225,000	250,000	300,000	350,000	400,000
Thermal Eff. (%)	82	83	83	84	84	84	83	83	83	83	83	83	83	83
BTUH Output*	24,600	37,350	49,800	63,000	88,200	100,800	124,500	145,250	166,000	186,750	207,500	249,000	290,500	332,000
Gas Conn. (In.) Nat. <sup>a</sup>	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	3/4	3/4	3/4
Vent Conn. Size (In.) Diameter <sup>b</sup>	4	4	4	4	4	4	5	5	5	5	5	6	6	6
Combustion Air Inlet (In.) Dia. <sup>c</sup>	4	4	4	4	4	4	6	6	6	6	6	6	6	6
Control Amps (24V)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Full Load Amps (115V)	1.9	2.4	2.4	3.3	3.9	5.1	3.8	3.8	4.6	7.5	7.5	10.7	10.7	10.7
Max. Over Current Protection (115V) <sup>d</sup>	15	15	15	15	15	15	15	15	15	15	15	20	20	20
Fan Motor HP <sup>e</sup>	0.02	0.03	0.03	0.06	1/30	1/20	1/6	1/6	1/6	1/4	1/4	1/2	1/2	1/2
Fan Motor RPM	1550	1550	1550	1550	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Fan Diameter (In.)	10	10	12	12	16	16	18	18	18	20	20	24	24	24
Approx. Net Wt. (Lbs.)	55	60	68	73	97	102	173	188	188	204	216	270	295	307
Approx. Ship Wt. (Lbs.)	63	68	76	81	120	125	206	221	221	247	259	323	348	360

<sup>a</sup> CSA ratings for altitudes to 2000 feet.

<sup>b</sup> Size shown is for gas to a single-stage gas valves, not supply line size.

<sup>c</sup> Smaller or larger vent and combustion air pipes may be permissible; refer to the Venting Installation Manual for Separated Combustion Units.

<sup>d</sup> MOPD = 2.25 x (largest motor FLA) + smallest motor FLA. Answer is rounded to the nearest commercially available circuit breaker.

<sup>e</sup> All other information in this table is based on a heater equipped with a standard 115 volt open fan motor.

### Concentric Adapter Cross Reference

UDAS Model Size	Vent Diameter (In.)	Combustion Air Dia. (In.)	SFT		UDAS		Horizontal or Vertical Vent Kits
			Bercor Number	Concentric Adapter	Bercor Number	Concentric Adapter	
30-125	3 or 4	3 or 4	N/A	157155	67672	197086	CC2
30-125	3 or 4	3 or 4	N/A	157157	67673	197090	CC6
150-400	5	6	N/A	None	67674	197087	CC2
150-400	5	6	N/A	None	67675	197091	CC6

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**UDAS Unit Heaters**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	67711	RZUDAS30 30,000 BTUH V3 SEP.COMB.UNIT HEATER	—	—
1	EA	67712	RZUDAS45 45,000 BTUH V3 SEP.COMB.UNIT HEATER	—	—
1	EA	67713	RZUDAS60 60,000 BTUH V3 SEP.COMB.UNIT HEATER	—	—
1	EA	67714	RZUDAS75 75,000 BTUH V3 SEP.COMB.UNIT HEATER	—	—
1	EA	67715	RZUDAS100 100,000 BTUH V3 SEP.COMB.UNIT HEATER	—	—
1	EA	67716	RZUDAS125 125,000 BTUH V3 SEP.COMB.UNIT HEATER	—	—
1	EA	67717	RZUDAS150 150,000 BTUH V3 SEP.COMB.UNIT HEATER	—	—
1	EA	67718	RZUDAS175 175,000 BTUH V3 SEP.COMB.UNIT HEATER	—	—
1	EA	67719	RZUDAS200 200,000 BTUH V3 SEP.COMB.UNIT HEATER	—	—
1	EA	67728	RZUDAS225 225,000 BTUH V3 SEP.COMB.UNIT HEATER	—	—
1	EA	67738	RZUDAS250 250,000 BTUH V3 SEP.COMB.UNIT HEATER	—	—
1	EA	67739	RZUDAS300 300,000 BTUH V3 SEP.COMB.UNIT HEATER	—	—
1	EA	67747	RZUDAS350 350,000 BTUH V3 SEP.COMB.UNIT HEATER	—	—
1	EA	67748	RZUDAS400 400,000 BTUH V3 SEP.COMB.UNIT HEATER	—	—

**Vent Kits for UDAS**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	67672	RZ205895 CC2 VERTICAL VENT KIT UDAS 30-125	—
1	EA	67673	RZ211762 CC6 HORIZONTAL VENT KIT UDAS 30-125	—
1	EA	67674	RZ205896 CC2 VERTICAL VENT KIT UDAS 150-400	—
1	EA	67675	RZ211763 CC6 HORIZONTAL VENT KIT UDAS 150-400	—
1	EA	62264	RZ209343 CC14 FLUSH WALL HORIZ VENT KIT UDAS	—

**UDAP/UDAS NAT to LP Conversion Kits**

1	EA	62263	RZ201727 UDAP/UDAS 30-45 NAT TO LP KIT	—
1	EA	62268	RZ201728 UDAP/UDAS 60-75 NAT TO LP KIT	—
1	EA	62269	RZ202938 UDAP/UDAS 100-125 NAT TO LP KIT	—
1	EA	62277	RZ201730 UDAP/UDAS 150-175 NAT TO LP KIT	—
1	EA	62278	RZ201731 UDAP/UDAS 200-250 NAT TO LP	—
1	EA	62279	RZ201732 UDAP/UDAS 300-400 NAT TO LP KIT	—

**Hanger Kits**

1	EA	62614	RZ197094 CK22 UDAS/UDAP MODELS 30-125 OPTIONAL HANGER KIT	—
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**REZNOR® UDAP/UDAS Replacement Parts**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62377	RZ175265 115V 25VA UDAP/UDAS TRANSFORMER	—
1	EA	62410	RZ175272 UDAP/UDAS IGNITOR ELECTRODE ASSBLY	—
1	EA	62331	RZ175273 115V VENTER MOTOR UDAP/S 30-75	—
1	EA	62323	RZ195036 30-175 UDAP/S VENTER WHEEL	—
1	EA	62385	RZ195265 UDAP/UDAS CIRCUIT BOARD	—
1	EA	62396	RZ195292 UDAP/UDAS FLAME SENSOR	—
1	EA	62330	RZ195666 200-400 UDAP/S VENTER WHEEL	—
1	EA	62371	RZ195766 UDAP MODELS 30-175 COOLING FAN	—
1	EA	62333	RZ196036 115V VENTER MOTOR UDAP/S 150-175	—
1	EA	62335	RZ196037(208194) 115V VENTER MOTOR UDAP/S 200-250	—
1	EA	62498	RZ196236 115V VENTER MOTOR UDAP/S 300-400	—
1	EA	62287	RZ196241 115 V FAN MOTOR UDA 45 & 60	—
1	EA	62288	RZ196242 115 V FAN MOTOR UDA 75	—
1	EA	62289	RZ196243 115 V FAN MOTOR UDA 100	—
1	EA	62296	RZ196244 115 V FAN MOTOR UDA 125	—
1	EA	62297	RZ196245 115 V FAN MOTOR UDA 150-175	—
1	EA	62310	RZ196246 115V FAN MOTOR UDA 225 & 250	—
1	EA	62322	RZ196247 115V FAN MOTOR UDA 300-400	—
1	EA	62301	RZ196388 UDAP 60-100 150-175 PRESSURE SWITCH	—
1	EA	62304	RZ196980 UDA 100-200 SINGLE STG GAS VALVE	—
1	EA	62305	RZ196981 UDA 225-400 SINGLE STG GAS VALVE	—
1	EA	62299	RZ197030 UDAP 30,45,125 PRESSURE SWITCH	—
1	EA	62255	RZ207938 CK 10 HANGER KIT	—
1	EA	62332	RZ256091(195686) 115V VENTER MOTOR UDAP/S 100-125	—

# REZNOR® UEAS Low Static Axial Fan Unit Heaters

## Separated Combustion



Reznor® V3 Series Model UEAS gas-fired separated combustion unit heaters are available in 4 sizes ranging from 131,000 to 305,000 BTUH gas input. Heaters are designed for up to 93% thermal efficiency and are approved for installation in the United States and Canada by ETL.

- New T-core<sup>3™</sup> titanium stabilized aluminized steel primary heat exchanger with extruded aluminum MacroChannel secondary heat exchanger (patent pending).
- New patented T-core<sup>3™</sup> single burner combustion system including a one-piece burner assembly.
- 115/1/60 supply voltage
- Integrated circuit board with diagnostic indicator lights
- Multi-try direct ignition with 100% lockout
- Fan relay (included on the circuit board)
- Single-stage natural gas valve (field adjustable for operation to 10,000 ft. elevation)
- Vibration/noise isolated fan motor
- 4-point suspension
- External terminal strip for 24-volt wiring
- External gas connection
- Full fan guard engineered for safety
- Improved cabinet design with less visible hardware and a new Reznor appearance

Model No.	130	180	260	310
BTUH Input	131,000	175,000	260,000	305,000
Thermal Eff. (%)	93	91	92	91
BTUH Output <sup>a</sup>	121,830	159,250	239,200	277,550
Air Throw (Ft.) <sup>b</sup>	69	91	89	103
Gas Conn. (In.) Nat. <sup>c</sup>	1/2	1/2	3/4	3/4
Vent Conn. Size (In.) Diameter <sup>d</sup>	4	4	4	4
Combustion Air Inlet (In.) Dia. <sup>d</sup>	6	6	6	6
Control Amps (24V)	1.0	1.0	1.0	1.0
Full Load Amps (115V)	6.3	6.3	10	10
Max. Over Current Protection (115V) <sup>e</sup>	15	15	20	20
Fan Motor HP <sup>f</sup>	1/4	1/4	1/2	1/2
Fan Motor RPM	1050	1050	1050	1050
Fan Diameter (In.)	18	18	24	24
Approx. Net Wt. (Lbs.)	230	245	360	395
Approx. Ship Wt. (Lbs.)	255	270	385	420

<sup>a</sup> CSA ratings for altitudes to 2000 feet.

<sup>b</sup> For unit mounted 10 feet with louver angle ranging between 25° and 32°.

<sup>c</sup> Size shown is for gas to a single-stage gas valves, not supply line size.

<sup>d</sup> Smaller or larger vent and combustion air pipes may be permissible; refer to the Venting Installation Manual for Separated Combustion Units.

<sup>e</sup> MOPD = 2.25 x (largest motor FLA) + smallest motor FLA. Answer is rounded to the nearest commercially available circuit breaker.

<sup>f</sup> All other information in this table is based on a heater

### Unit Heaters

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	67736	RZUEAS130 130,000 BTUH 115V SUPER - HIGH EFFICIENCY UNIT HEATER	—	—
1	EA	67737	RZUEAS180 180,000 BTUH 115V SUPER - HIGH EFFICIENCY UNIT HEATER	—	—
1	EA	67749	RZUEAS260 260,000 BTUH 115V - HIGH EFFICIENCY UNIT HEATER	—	—
1	EA	67765	RZUEAS310 310,000 BTUH 115V SUPER - HIGH EFFICIENCY UNIT HEATER	—	—

### Vent Kits

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62260	RZ221247 CC6 HORIZONTAL VENT KIT UEAS	—
1	EA	62261	RZ221248 CC2 VERTICAL VENT KIT UEAS	—

## REZNOR® Natural to LP Conversion Kits

Unit Heater Model	Size	Gas Valve	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
F/B	50,000	V8200M7003 or VR82004M1000	1	EA	62422	RZ099244 CONV KIT NAT-LP	—
F/B	75,000	V8200M7003 or VR82004M1000	1	EA	62423	RZ099245 CONV KIT NAT-LP	—
F/B	100,000	V8200M7003 or VR82004M1000	1	EA	62424	RZ099246 CONV KIT NAT-LP	—
F/B	130-250; 300-400	36C02-211; 36C68-452	1	EA	62425	RZ099247 CONV KIT NAT-LP	—

\* Law requires 100% lock out on units converted to LP gas with spark ignition G770NGC-4 replacement.

# REZNOR® Model VR Radiant Heater

## Gas Fired, Low Intensity Tubular



The Reznor commercial/industrial line of infrared heating equipment is designed to provide quiet, energy-efficient, comfort level temperatures through application of radiant heat transfer. Model VR tubular radiant heaters are available in BTUH inputs of 50,000 to 200,000 and in tube lengths from 20 to 70 feet. All sizes are available for use with natural gas or optional propane gas. The tubes are in 10-foot sections with each section having a polished reflector. The tube attached to the burner is the combustion chamber, all other sections are highly emissive heat exchanger tubes.

The standard configuration is straight. Optional "L" shaped, "U" shaped and 5-foot straight heat exchanger tubes are available to change the configuration to adapt to various applications. For maximum efficiency, the exhaust end of all systems is equipped with an aluminized steel turbulator strip. Combustion air can either come from the heated space or be piped from the outside. Model VR tubular heater systems are shipped in modular packages requiring field assembly and installation.

- 115/1 supply voltage with grounded plug-in cord.
- Multi-try direct ignition with 100% lockout.
- Single-stage combination gas valve.
- Differential air pressure switch to verify combustion air flow.
- Diagnostic indicator light.
- Polished aluminum reflectors (10 ft. lengths) that overlap for continuous reflector system.
- 115/1 supply voltage with grounded plug-in cord.
- Sight glass for burner observation.
- External terminal board connection for 24-volt thermostat.
- 16-gauge aluminized steel combustion chamber (10 ft. length).
- High emissivity radiant tubes, 16-gauge HRS (10 ft. lengths).
- Compression coupling tube connections.
- Horizontal or vertical venting.

VR Model		75	100	125	150	175	200
BTUH Input		75,000	100,000	125,000	150,000	175,000	200,000
Gas Supply Pressure (w.c.)	Natural	4.5" to 14"	4.5" to 14"	4.5" to 14"	4.5" to 14"	6" to 14"	6" to 14"
	Propane	11" to 14"	11" to 14"	11" to 14"	11" to 14"	11" to 14"	11" to 14"
Gas Manifold Pressure (w.c.)	Natural	3.5"	3.5"	3.5"	3.5"	5"	5"
	Propane	10"	10"	10"	10"	10"	10"
Control Amps (24V)		0.8	0.8	0.8	0.8	0.8	0.8
Full Load Amps (115V)		1.1	1.1	0.8	0.8	1.2	1.2

Model Number	Desired MBH Input	Heater Tube Length Range
VR75/100	75	20-40 Ft.
VR75/100 <sup>a</sup>	100	30-50 Ft.
VR125/150	125	30-60 Ft.
VR125/150 <sup>b</sup>	150	40-60 Ft.
VR175/200	175	40-70 Ft.
VR175/200 <sup>c</sup>	200	50-70 Ft.

Total System Length Feet	Required Components		Requires the Following Part Numbers	
	Combustion Chamber	Heat Exchangers	1 Each	2 Each
20	1	1	205204	-
30	1	2	205205	-
40	1	3	205204 & 205206	-
50	1	4	205204 & 205151	-
60	1	5	205205 & 205151	-
70	1	6	205205	205206

<sup>a</sup>VR75/100 is factory-built as 75 MBH and includes a conversion kit to field-convert to 100 MBH.

<sup>b</sup>VR125/150 is factory-built as 125 MBH and includes a conversion kit to field-convert to 150 MBH.

<sup>c</sup>VR175/200 is factory-built as 175 MBH and includes a conversion kit to field-convert to 200 MBH.

NOTE: All Model VR Heaters require a burner/control box, and a combustion chamber tube. The "length" of the system is determined by the number of straight heat exchanger tubes that are positioned after the combustion chamber tube. Refer to the installation manual to determine correct number of turbulator strips to be installed. These heaters are approved for use in the United States and Canada by the Canadian Standards Association (CSA). Reznor provides a five-year limited warranty on the burner and a ten-year limited warranty on all tubes warranty on all tubes.

### Burner Box

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	64092	RZVR75/100 75,000 BTU BURNER BOX	—
1	EA	64093	RZVR125/150 125,000 BTU BURNER BOX	—
1	EA	64094	RZVR175/200 175,000 BTU BURNER BOX	—

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**Tube Assembly Packages/Components**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	64095	RZ205204 VRE TUBE ASSEMBLY PACKAGE	—
1	EA	64096	RZ205205 VRF TUBE ASSEMBLY PACKAGE	—
1	EA	64097	RZ205206 VRG TUBE ASSEMBLY PACKAGE	—
1	EA	64098	RZ205151 VRH TUBE ASSEMBLY PACKAGE	—

**LP Kits**

1	EA	62256	RZ205514 VR 50-100 CONV KIT NAT-LP	—
1	EA	62257	RZ205515 VR 125-150 CONV KIT NAT-LP	—
1	EA	62259	RZ205516 VR 175-200 CONV KIT NAT-LP	—

**REZNOR® RIH Infra-Red Heaters**  
**Gas Fired, High Intensity**



**Recommended Mounting Heights**

Minimum mounting heights shown in feet. Lower mounting heights may be used if personnel are not kept directly under the heater. Clearances to combustibles must be observed.

**Technical Data**

Model No.	RIHVN 15	
BTUH Input	150,000	
Inlet Gas Pressure (" w.c.)	Minimum	7
	Maximum	14
Allowable Mounting Angle	0-30°	
<b>Clearances to Combustibles (Inches)</b>		
Side of Heater	46	
Back of Heater	33	
Top of Heater		
Standard, Mounted 0-29"	64	
Standard, Mounted 30" only	58	
w/Optional Deflector, 0-29"	—	
w/Optional Deflector, 30" only	—	
Below the Heater		
Standard Reflector	125	
w/Optional Parabolic Reflector	165	
Gas Connection (Inches)	1/2	
Shipping Weight (lbs.)	48	

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3
1	EA	62404	RZRIHVN150 NAT INFRA-RED HTR	—	—



# REZNOR® Replacement Parts

Fits the Following Units	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
301 Venter, X400	1	EA	62578	RZ007299 154 REZ SAIL SWITCH	—
X400 Trim to Regular Size, X Series	1	EA	62462	RZ009520 LIGHTER TUBE ASSY	—
	1	EA	62592	RZ009892 1/20 HP MOTOR	—
	1	EA	62591	RZ011493 1/40 HP REZ MOTOR	—
401 Venter	1	EA	62579	RZ013925 SAIL SWITCH	—
PAK/BF Blower	1	EA	62532	RZ014474 1 3/16 BEARING	—
Venter Relay SPST (RBM)	1	EA	62595	RZ014747 REZ RELAY PKG	—
	1	EA	62594	RZ016072 1/6 HP MOTOR	—
PV Series	1	EA	62533	RZ017155 PRESSURE SWITCH	—
X-XL 125-400 Flash Tube	1	EA	62470	RZ017890 J963HXA-6218 HORIZ PILOT	—
Pilot Solenoid 1/4 Inch	1	EA	62479	RZ025787 PILOT VALVE	—
SCA Venter Wheel	1	EA	62481	RZ029340 WHEEL	—
V301/401 RPV Series 1	1	EA	62583	RZ029571 230V REZ MOTOR	—
V301	1	EA	62482	RZ029791 5/16 IN WHEEL	—
V401	1	EA	62483	RZ029792 5/16 IN WHEEL	—
V301/401 RPV Series 1	1	EA	62582	RZ030249 208V REZ MOTOR	—
Venter Motor SC/RPV	1	EA	62485	RZ036860 1/12 HP MOTOR	—
SC Series Prior to Series 3	1	EA	62474	RZ037801 LP ORIFICE	—
Old SC/RPV Series 2 230V	1	EA	62487	RZ040069 VENTER MOTOR	—
XL30-105	1	EA	62537	RZ040964 PILOT ASSY	—
CL-EEXL 300/105/125/140 F-FE100	1	EA	62557	RZ041004 FAN BLADE	—
2 Stage Duct Thermostat	1	EA	62488	RZ041700 TEMP CONTROLLER	—
Vertical Spark Pilot RPV/PV	1	EA	62467	RZ041775 PILOT BURNER J999HHW-6221	—
RCG and RPV Series 3	1	EA	62538	RZ043425 VENTER WHEEL	—
G60 Ignition Controller	1	EA	62490	RZ043594 FLAME PROBE	—
	1	EA	62534	RZ043814 WHEEL	—
RPV SPDT	1	EA	62580	RZ043847 SAIL SWITCH	—
G60 9" Long Sub 50450	1	EA	62492	RZ044675 SENSOR LEAD	—
	1	EA	62494	RZ045331 1/40 HP MOTOR	—
F-FE-FT-SFT	1	EA	62613	RZ045602 L185 REZ LIMIT CONTROL	—
XL-EEXL 150/170	1	EA	62558	RZ045946 16" FAN BLADE	—
	1	EA	62585	RZ046163 REZ VENTER ADAPTOR	—
SC-RPV Series 5 Less Lead	1	EA	62539	RZ046233 TIME DELAY RELAY	—
RCG	1	EA	62573	RZ047484 PILOT BURNER	—
	1	EA	62559	RZ048696 16" FAN BLADE	—
	1	EA	62620	RZ050417 L125 REZ LIMIT CTRL	—
	1	EA	62627	RZ050418 L145 REZ LIMIT CTRL	—
G60 16" Long	1	EA	62544	RZ050450 SENSOR LEAD	—
	1	EA	62616	RZ055680 1/20 HP MOTOR	—
	1	EA	62617	RZ055681 1/8 HP MOTOR	—
EEXL 125-250	1	EA	62548	RZ061069 VENTER MOTOR	—
XL-EEXL 125-400	1	EA	62628	RZ061145 HORIZ SPARK PILOT	—
	1	EA	62619	RZ064679 1/4 HP MOTOR	—
EEXL 30-105	1	EA	62630	RZ068002 VENTER MOTOR	—
Most All Reznor Models	1	EA	62631	RZ068005 2-1/4 INDUCER FAN BLADE	—
EEXL 30-105	1	EA	62632	RZ068006 VENTER BLOWER WHEEL	—
EEXL 30-105	1	EA	62633	RZ068031 PRESS SWITCH	—
SC Series 3	1	EA	62598	RZ068266 PRESSURE SWITCH	—
Most Reznor Models	1	EA	62656	RZ082091 LIMIT CONTROL	—
F & FE 75-400	1	EA	62447	RZ082414 ECO DEVICE	—
RDF	1	EA	62449	RZ082610 LIMIT SW MANUAL RESET	—
F & FE	1	EA	62657	RZ085449 LIMIT CONTROL	—
EEXL 300-400	1	EA	62507	RZ087434 VENTER MOTOR	—
H91LG-8	1	EA	62496	RZ088242 3/4 IN SOLENOID VALVE	—
	1	EA	62618	RZ088781 1/6 HP MOTOR	—
	1	EA	62463	RZ092803 G60AAG-3 IGN CTL REPL KIT	—
XL-EEXL 30-105	1	EA	62635	RZ093971 HORIZ SPARK PILOT	—
	1	EA	62541	RZ093973 ORIFICE	—
3 Pole	1	EA	62531	RZ095526 CONTACTOR W/24V COIL	—
F-FE300	1	EA	62472	RZ095545 115V OPEN FAN MOTOR	—
F-FE250	1	EA	62473	RZ095546 115V OPEN FAN MOTOR	—
F-FE130-200	1	EA	62476	RZ095547 FAN MOTOR	—
F-FE100, 125	1	EA	62477	RZ095548 FAN MOTOR	—
F-FE25	1	EA	62480	RZ096286 115V OPEN FAN MOTOR	—
F-FE50	1	EA	62484	RZ096287 115V OPEN FAN MOTOR	—
F-FE75	1	EA	62502	RZ096288 115V OPEN FAN MOTOR	—
W/R 36C03-270	1	EA	62444	RZ096300 1/2 IN COMB VALVE W/ECO	—
F25-100	1	EA	62980	RZ096301 3/4 NAT VALVE	—

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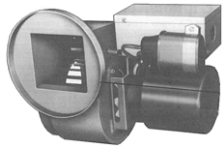
Fits the Following Units	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
RA6100DER	1	EA	62647	RZ096307 1/2 IN COMB VALVE	—
Model F Match-Lit Pilot	1	EA	62523	RZ096360 PILOT ASSY W/ORIF L/TUBE	—
F-FE75	1	EA	62453	RZ096379 12" FAN BLADE	—
F-FE165	1	EA	62468	RZ096380 FAN BLADE	—
F-FE200	1	EA	62469	RZ096381 20" FAN BLADE	—
F-FE250	1	EA	62518	RZ096382 22" FAN BLADE	—
F-FE400	1	EA	62606	RZ096384 24" FAN BLADE	—
F250-300	1	EA	62542	RZ096512 LIMIT CONTROL	—
	1	EA	62621	RZ096978 G67 REPL KIT	—
F & FE75-400	1	EA	62556	RZ097479 TIME DELAY RELAY	—
F & FE with Spark Pilot	1	EA	62562	RZ097534 PILOT ASSY PILOT ASSY W/ORIF L/TUBE	—
F & FE with Spark Pilot	1	EA	62565	RZ097572 1/8 IN COMP FITTING	—
FE130-400	1	EA	62566	RZ097575 FLAME SENSOR LEAD 21IN	—
FE25-100	1	EA	62571	RZ097724 VENTER WHEEL	—
FE25-100	1	EA	62572	RZ097725 VENTER WHEEL	—
	1	EA	62359	RZ097727 FE25-100 VENTER ASSEMBLY	—
	1	EA	62354	RZ097730 FE130-400 VENTER ASSEMBLY	—
F130-200	1	EA	62612	RZ098118 RELAY	—
	1	EA	62982	RZ098468 115V VENTER F130-200	—
F25-400, FE130-400	1	EA	62983	RZ098471 115V VENTER F250-400	—
F-FE25-400	1	EA	62608	RZ098508 CK7 4-POINT HANGER	—
FE25-100	1	EA	62609	RZ098509 CK8 2-POINT HANGER	—
F/FE 25-400 w/Pilot Code 65 or 66;TR & TR-H 50-200	1	EA	62602	RZ098697 FLAME ROD	—
F/FE; B/BE; TR/TR-H; SC/SCE Series 6	1	EA	62549	RZ098698 PILOT TUBING	—
FT 200-300; B/BE 130-400	1	EA	62658	RZ100799 LIMIT CONTROL	—
	1	EA	62429	RZ103054 TRANSFORMER	—
	1	EA	62419	RZ103055 TRANSFORMER	—
	1	EA	62547	RZ103498 480/24V 40VA TRANS	—
F-FE130	1	EA	62450	RZ104692 FAN BLADE	—
F, B 25-400	1	EA	62651	RZ110851 STANDING PILOT ASSY NATURAL GAS	—
TR, TR-H	1	EA	62649	RZ110853 SPARK PILOT ASSY NATURAL GAS	—
	1	EA	62457	RZ110861 PILOT KIT	—
F-FE25-165	1	EA	62660	RZ112752 BLOCKED VENT SWITCH	—
	1	EA	62564	RZ115417 MOTOR 1/4 HP	—
	1	EA	67720	RZ121275 BLOCKED VENT SWITCH	—
	1	EA	62642	RZ121598 1/2 IN COMB VALVE	—
	1	EA	62219	RZ121599 GAS VALVE	—
F & FE200-400	1	EA	62525	RZ123974 FAN CONTROL W/BRACKET	—
	1	EA	62659	RZ123975 FAN CONTROL W/BRACKET	—
F & FE	1	EA	62604	RZ123976 FAN CONTROL W/BRACKET	—
F & FE	1	EA	62584	RZ125131 PRESSURE SWITCH	—
FT150-200	1	EA	67727	RZ125251 NT PILOT BURNER Q90FF-3D	—
F & FT60, 75	1	EA	62436	RZ125566 FAN BLADE	—
F & FE50	1	EA	62452	RZ129853 10" FAN BLADE	—
F	1	EA	62491	RZ131410 VENTER MOTOR	—
	1	EA	62215	RZ131415 VENT MOTOR	—
F & FE25-50	1	EA	62550	RZ131449 ECO LIMIT CONTROL	—
F	1	EA	62458	RZ131450 F-SERIES ECO DEVICE	—
Most All Reznor Models	1	EA	62520	RZ131457 SC-6 NATURAL GAS REPL PILOT KIT	—
FE125	1	EA	62266	RZ131987 FE125 VENTER MOTOR WHEEL	—
F 25-400	1	EA	62648	RZ131988 TRANSFORMER	—
F 75-400	1	EA	62428	RZ132204 115V 20VA TRANSFORMER	—
	1	EA	62443	RZ132377 115V VENTER MOTOR	—
	1	EA	62653	RZ132378 VENTER MOTOR REPL KIT	—
F & B	1	EA	62652	RZ132379 460V VENTER MOTOR	—
F & FE25	1	EA	67750	RZ132465 FAN BLADE	—
XL-EEXL250	1	EA	62589	RZ141598 FAN BLADE	—
FT30-300	1	EA	62654	RZ147165 FLAME SENSOR	—
FT30-300	1	EA	62661	RZ147166 SPARK ELECTRODE	—
FT30-300	1	EA	62664	RZ147356 TRANSFORMER	—
FT 30-75	1	EA	67729	RZ147359 VENTER MOTOR ASSEMBLY	—
	1	EA	62588	RZ147676 FAN CONTROL	—
(S) FT100, 125, 150, 200	1	EA	62685	RZ147830 GAS VALVE	—
FT 150-200	1	EA	62575	RZ148053 (RZ97741) VENTER MOTOR 62599 W/O CAPCITR	—
FT 100-125	1	EA	67751	RZ148055 VENTER MOTOR	—
FT100, 125	1	EA	62441	RZ148056 VENTER MOTOR ASSY	—
FT150, 200	1	EA	62442	RZ148057 VENTER MOTOR ASSEMBLY	—
FT30-125	1	EA	67726	RZ148085 IGNITION CABLE	—
F & FT100, 125, 175	1	EA	62437	RZ150155 FAN BLADE	—
F & FT100, 125	1	EA	62478	RZ156275 FAN MOTOR	—

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Fits the Following Units	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
SC, SCA, SCE Series	1	EA	62051	RZ165986 460 VOLT VENTER MOTOR	—
FT30, 45, 60, 75	1	EA	62684	RZ172552 GAS VALVE	—
W/R 36D13-208	1	EA	62504	RZ177396 1/2 IN 2 STAGE COMBINATION VALVE	—
W/R 36D13-415	1	EA	62505	RZ177397 3/4 IN 2 STAGE COMB VALVE	—
All EEXL	1	EA	62629	RZ177633 PRESS SWITCH	—
FT/SFT 30-75 Models	1	EA	67723	RZ179315 LP KIT FT/SFT 30-75	—
	1	EA	62499	RZ193810 PRESSURE SWITCH	—
FT30-200	1	EA	67725	RZ196362 (RZ148072) PRESSURE SWITCH	—
FE & BE	1	EA	62600	RZ196653 PRESSURE SWITCH	—
VR	1	EA	62218	RZ204955 IGNITION CONTROL FOR VR	—
VR Series	1	EA	64108	RZ205211 UB3 VR "U" SHAPED HEAT EXCH TUBE	—
VR Series	1	EA	64099	RZ205402 CK11 VR TUBE HEATER HANGER KITS	—
VR Series	1	EA	64100	RZ205685 CL31 VR 115 V MULTI HEATER CONTROL MASTER & SLAVE	—
VR Series	1	EA	64107	RZ205686 CL32 VR 115 VOLT MULTI HEATER CONTROL SLAVE	—
F-NAT 130	1	EA	62400	RZ208920 1/2 NATURAL GAS VALVE	—
Most Reznor Models	1	EA	62603	RZ209184 F-125 REZ FAN CONTROL	—
Post Purge SW PV/RPV 5 Prong	1	EA	62465	RZ209187 FAN CONTROL	—
	1	EA	62360	RZ221525 (96309 AND 222037) NATURAL GAS VALVE	—
All FE	1	EA	62650	RZ257472 (RZ097782) IGN CONTROL - SPARK PILOT	—
(S) FT30-200	1	EA	67722	RZ257531 (RZ174260) CIRCUIT BOARD	—

## REZNOR® 301, 401 Power Venters



These power venters are motorized vent exhausters designed to permit the installation of a gravity-vented heater in an area of negative pressure up to 0.15 in. w.c. or where horizontal venting is required. These venters are designed for and may only be installed on the Reznor equipment listed at right.

### Use Venters with the Following Models

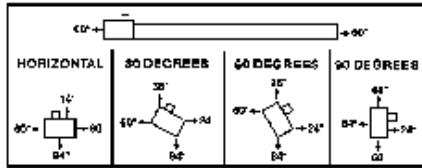
- Duct Furnaces: X/DX/HX, CX/HCX
- Packaged Duct Furnaces and Blower: XE/HXE, CXE/HCXE
- Fan-Type Unit Heaters: XL/CXL
- Blower Type Unit Heaters: XLB/CXLB

For Heater Sizes	Voltage	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
30-300	115/24	1	EA	62497	RZ029992 LV301 REZNOR VENTER	—
350-400	115/24	1	EA	62500	RZ029994 LV401 REZNOR VENTER	—
30-300	230/24	1	EA	62501	RZ030231 LV301-H REZNOR VENTER	—
350-400	230/24	1	EA	62503	RZ030235 LV401-H REZNOR VENTER	—



## RSTP Tube Heater

### Parts for Vented Radiant Tube Heaters



- Pull-through system (vacuum)— the products of combustion are pulled through the combustion chamber for increased radiant efficiency and greater safety.
- Each unit is equipped with an individual draft inducer for maximum venting flexibility.
- Vented, common vented, or indirect vented operation.
- Draft inducer is equipped with permanently lubricated, totally enclosed, fan-cooled, and heavy duty ball bearing motor to minimize field maintenance.
- Rugged body construction. Completely factory assembled unitized design saves installation time and money.
- 16 gauge 4" O.D. calorized steel emitter tubes.
- Highest radiant efficiency tube heaters. Tube temperatures average 900° F.
- Aluminized steel emitter tubes are calorized for long life, corrosion resistance, and high radiant efficiency and will not flake or peel.
- The calorization process produces an emitter tube which is highly radiant absorptive on the interior and highly radiant emissive on the exterior.
- One-piece cast iron burner with stainless steel flame retainer.
- Inside or outside air for combustion.
- Highly efficient aluminum reflectors designed for uniform floor level radiant energy distribution.
- Reflector ends are enclosed for maximum radiant heat output and minimum convection loss.
- Suitable for horizontal or angle mount up to 90°.

Model No.	Gas Type	BTU Rating	24 Volt	Electric Spark	Shipping Weight	Height at 45° Angle (Ft.)	Height at Horizontal (Ft.)
RSTP17CN5	Natural	175,000	Indoor	120V	256	14 to 40	16 to 60

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62348	03721000 EXHAUSTER MOTOR	—
1	EA	62347	03723000 BLOWER WHEEL	—
1	EA	62350	43143010 S-R EXHAUSTER ASSY	—
1	EA	62349	43143021 (43143000) S-R EXHAUSTER ASSY	—
12	EA	71540	Q347A 1004 SPARK IGNITER	—
1	EA	62298	RSTP17C-N5 175M NAT GAS FIRED TUBE HEATER	—
1	EA	72715	S87C 1014-B DSI CONTROL MODULE	—



## Natural Gas Infrared Heaters



- Highly radiant efficient ceramic heaters.
- Suitable for horizontal or angle mount up to 45°.
- 120V direct spark ignition.
- Equipped with 100% gas shut-off safety control.
- Corrosion resistant aluminized steel body construction.
- Durable cast iron burner for precision-crafted performance and proper combustion.
- 1/2" NPT female gas pipe connection.
- All models supplied with appliance pressure regulator for inlet pressures up to 1/2 PSI.
- AGA Certified.

BTUs	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5
52,000	1	EA	62328	RSCA6-N5 S-R NAT HEATER	—	—
104,000	1	EA	62329	RSCA10-N5 S-R NAT HEATER	—	—



## Floor Model Infrared Gas Heaters



Infrared heaters warm people and machinery directly, as the sun does, instead of blowing warm air which rises to the ceiling making the floor level the most difficult to heat. Space-Ray's heavy gauge stainless steel heat exchanger maximizes radiant energy transfer and the high operating temperature means greater radiant efficiency. The heavy duty construction and quality components offer years of reliable service.

Natural gas model RFPA10B supplied with appliance regulator for inlet pressures up to 1/2 PSI, RFPA21 for inlet pressures up to 1/2 PSI inlet. RFPA25 has 1/2" IPS connectors, and 100% safety shut-off control, but no pressure regulator. Operating pressure 5 PSIG. All controls are tested before shipment and all gas inlet connections are 1/2".

### Required Minimum Clearances to Combustibles:

- Model RFPA10B: From Side: 60"; From Top: 72"
- Models RFPA21A and RFPA25: From Side: 144"; From Top: 168"

### Low Pressure Gas Models

BTUs	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5
100,000	1	EA	62300	RFPA10B-N6C S-R NAT HEATER	—	—
212,000	1	EA	62303	RFPA21A-N6A S-R NAT HEATER	—	—

### 5 PSI High Pressure Models

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5
1	EA	62306	RFPA25-N6A S-R NAT HEATER	—	—

### Accessories for Floor Models

Additional Product Information	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
For Use With RFPA21	1	EA	62307	41337000 BARRIER GUARD RING KIT	—
For Use With RFPA25	1	EA	62308	41337000 BARRIER GUARD RING KIT	—
1/2 Ind with Fitting and Manual Cutoff Valve	1	EA	62309	42035010 15 FT HOSE W/CUTOFF VALVE	—

### Parts for RFPA10B

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62346	03345010 PILOT ORIFICE NAT	—
1	EA	62344	03399020 PILOT BRNR & ORIFICE	—
1	EA	62334	04362020 HEAT EXCHANGER ASSY	—
1	EA	62340	41795020 PILOT SHIELD-OUTER	—

### Parts for RFPA21A

Space Ray Number	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
—	1	EA	62336	04485000 HEAT EXCHANGER ASSY	—
—	1	EA	62339	41795010 PILOT SHIELD-INNER	—
—	1	EA	62338	42920010 PILOT BRNR & ORIFICE W/INNER SHIELD	—
03401030	10	EA	75059	K16BT-18H THERMOCOUPLE	—
03695000	1	EA	75090	H43BA-2C 1/2 IN VALVE	—

### Parts for RFPA25

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62342	03166000 GAS VALVE	—
1	EA	62337	04593030 METAL GUARD	—
1	EA	62343	30522030 (30524030) PILOT REGULATOR F/RFPA25A	—
1	EA	62345	30522040 PILOT REGULATOR KIT F/RFPA25	—



## STS-JZ Series Premier Schwank Radiant Tube Heaters



The STS-JZ couples a patented ceramic burner head with a durable direct-drive blower located in line behind the burner. This system ensures a homogeneous gas-air mixture for optimum combustion efficiency and a long narrow flame—ideal tube firing and delivering more uniform heat down the length of the tube.

### Features

- 24V or line voltage thermostat ready
- Status indicator lights
- Power cord with plug
- Birdscreened combustion air collar-4"
- Swing-down cabinet service access
- Whisper quiet ceramic burner
- Focus Shield reflector and end caps for premier IR heat output
- Emissive coated radiant tubes

- Min. Lin Pressure: 5.0 in. W.C.
- Max. Line Pressure: 14.0 in. W.C.
- Manifold Pressure: 3.5 in. W.C. (tap at gas valve outlet)

### Included

- **Burner Kit:** S/S flexible gas connector, electrical cord, status indicator lights, factory mounted igniter, factory installed 24/120V relay switch, drop-down service access, birdscreened air intake with collar on blower
- **Tube Kit:** Primary tube(s), secondary tube(s) with emissive coating, focus shield reflectors, two end plate hangers, webbed hangers for tubes and reflectors, tube coupler(s), and turbulator(s)

### Specifications

Model	Capacity	Available Length (Ft.)						
		10	20	30	40	50	60	70
STS-JZ 45	45,000	X	X					
STS-JZ 60	60,000		X	X				
STS-JZ 80	80,000		X	X	X			
STS-JZ 100	100,000		X					
STS-JZ 110	110,000			X	X	X		
STS-JZ 130	130,000			X	X	X		
STS-JZ 155	155,000				X	X	X	
STS-JZ 175	175,000					X	X	X
STS-JZ 200	200,000					X	X	X
Heater Length		11' 8"	21' 4"	31'	40' 8"	50' 4"	60'	69' 8"
Shipping Weight (Lbs.)		150	200	240	315	360	430	

### Clearances to Combustibles

Model	Suspended at an Angle Up to 45° (In.)				Suspended Horizontally (In.)		
	Top	Rear	Front	Below	Top	Sides	Below
STS-JZ 45	2.75	1	24	32	2.25	7	32
STS-JZ 60	2.5	1	17	34	1.5	5.5	34
STS-JZ 80	3	1	23	38	1.75	6	36
STS-JZ 100	6.5	1	57	68	6	22	68
STS-JZ 110	3.5	1	26	54	2	10	54
STS-JZ 130	4.5	1	35	56	3.3	11	60
STS-JZ 155	5.5	1	44	64	3.5	19	64
STS-JZ 175	5.5	1	47	68	4.5	20	68
STS-JZ 200	6.5	1	57	68	6	22	68

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**Burner and Tube Kit Assembly Chart\***

Model	Burner Kit	Total Tube Length (Ft.)	Tube Kit Part No. and Quantity Required									
			Stand-Alone Kits					Primary Kits		Secondary Kits		
			10	20	20	30	40	30	30	20	30	40
STS-JZ 45	JS-S045-AN	10	TS-4510-JZ	TS-1020-JZ	TS-1420-JZ	TS-1430-JZ	TS-1040-JZ	TS-F030-JZ	TS-1030-JZ	TS-0020-JZ	TS-0030-JZ	TS-0040-JZ
		20			1							
STS-JZ 60	JS-S060-AN	20			1							
		30				1						
STS-JZ 80	JS-S080-AN	20			1							
		30				1						
		40					1					
STS-JZ 100	JS-S100-AN	20		1								
STS-JZ 110	JS-S110-AN	30				1						
		40					1					
		50						1+		1		
STS-JZ 130	JS-S130-AN	30				1						
		40					1					
		50						1+		1		
STS-JZ 155	JS-S155-AN	40					1					
		50						1+		1		
		60						1+			1	
STS-JZ 175	JS-S175-AN	50							1+	1		
		60							1+		1	
		70							1+			1
STS-JZ 200	JS-S200-AN	50							1+	1		
		60							1+		1	
		70							1+			1

\* For each premierSchwank heater order 1 burner kit plus either 1 stand-alone tube kit or 1 primary tube kit plus 1 secondary tube kit.

**Burner Kits**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	88502	JS-S045-AN 45,000 PREMIERSCHWANK BURNER KIT	—
1	EA	88503	JS-S060-AN 60,000 PREMIERSCHWANK BURNER KIT	—
1	EA	88504	JS-S080-AN 80,000 PREMIERSCHWANK BURNER KIT	—
1	EA	88505	JS-S100-AN 100,000 PREMIERSCHWANK BURNER KIT	—
1	EA	88506	JS-S110-AN 110,000 PREMIERSCHWANK BURNER KIT	—
1	EA	88507	JS-S130-AN 130,000 PREMIERSCHWANK BURNER KIT	—
1	EA	88508	JS-S155-AN 155,000 PREMIERSCHWANK BURNER KIT	—
1	EA	88509	JS-S175-AN 175,000 PREMIERSCHWANK BURNER KIT	—
1	EA	88510	JS-S200-AN 200,000 PREMIERSCHWANK BURNER KIT	—

**Tube Kits, Stand-Alone**

1	EA	88511	TS-4510-JZ 10 FT STAND-ALONE TUBE KIT PREMIERSCHWANK	—
1	EA	88512	TS-1420-JZ 20 FT STAND-ALONE TUBE KIT PREMIERSCHWANK	—
1	EA	88513	TS-1020-JZ 20 FT STAND-ALONE F/ 100 ONLY TUBE KIT PREMIERSCHWANK	—
1	EA	88514	TS-1430-JZ 30 FT STAND-ALONE TUBE KIT PREMIERSCHWANK	—
1	EA	88515	TS-1040-JZ 40 FT STAND-ALONE TUBE KIT PREMIERSCHWANK	—

**Tube Kits, Primary**

1	EA	88516	TS-F030-JZ 30 FT PRIMARY TUBE KIT PREMIERSCHWANK	—
1	EA	88517	TS-1030-JZ 30 FT PRIMARY F/ 175/200 TUBE KIT PREMIERSCHWANK	—

**Tube Kits, Secondary**

1	EA	88519	TS-0020-JZ 20 FT SECONDARY TUBE KIT PREMIERSCHWANK	—
1	EA	88520	TS-0030-JZ 30 FT SECONDARY TUBE KIT PREMIERSCHWANK	—
1	EA	88521	TS-0040-JZ 40 FT SECONDARY TUBE KIT PREMIERSCHWANK	—

**LP Kits**

1	EA	88535	JS-0556-XC 45,000 LP KIT FOR PREMIERSCHWANK	—
1	EA	88536	JS-0557-XX 60,000 LP KIT FOR PREMIERSCHWANK	—
1	EA	88537	JS-0559-XX 80,000 LP KIT FOR PREMIERSCHWANK	—
1	EA	88538	JS-0561-XX 110,000 LP KIT FOR PREMIERSCHWANK	—
1	EA	88539	JS-0563-XX 130,000 LP KIT FOR PREMIERSCHWANK	—
1	EA	88540	JS-0565-XX 155,000 LP KIT FOR PREMIERSCHWANK	—
1	EA	88541	JS-0567-AA 175,000 LP KIT FOR PREMIERSCHWANK	—
1	EA	88542	JS-0567-CC 200,000 LP KIT FOR PREMIERSCHWANK	—

Continued on the Following Page

*Continued from the Previous Page*

**Accessories**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	88527	JA-0514-XX 4X4X6 VENT TEE	—
1	EA	88525	JA-0528-XX 4 INCH WALL VENT TERMINAL	—
1	EA	88543	JA-0530-XX 4 INCH ROOF VENT TERMINAL	—
1	EA	88528	JL-0798-JC #8 HANGING CHAIN (50 FT)	—
1	EA	88544	JL-0798-SH 25 PACK S HOOKS FOR PREMIERSCHWANK	—
1	EA	88523	JM-0150-XX 24V TRUTEMP RADIANT THERMOSTAT	—
1	EA	88524	JM-0303-KT 24V TRANSFORMER RELAY	—
1	EA	88526	JS-0508-JZ ST-JZ 90 DEGREE ELBOW & REFLECTOR KIT	—
1	EA	88522	JS-0532-VC FRESH AIR INTAKE COMBUSTION AIR CAP	—



**P40-R Gas-Fired Vented Room Heater  
For Residential, Garage, and Shop Applications**



- Compact unit overall length 10'
- 4" aluminized tube - single bend tube
- Complete with 110V plug on burner
- Indicator lights
- Completely assembled, lift and hang right out of the box
- 80%+ efficiency
- 3 year warranty
- Includes: 24V thermostat, thermostat wire, hanging chain and hooks, and gas flex connector.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	88545	P40-R 40,000 BTU COMPACT GARAGE/SHOP HEATER	—





## ecoSchwank Infra-Red, Radiant Luminous Heaters

### Price and Performance in One Package



When you need a gas-fired infrared heater that delivers both efficiency and economy, there is only one choice: the ecoSchwank. It delivers safe, reliable, comfortable heat in industrial plants, warehouses, transportation terminals, loading docks, aircraft hangars, automotive service shops, sports arenas, and many other hard-to-heat areas.

The patented design of the Effect Tile makes ecoSchwank economical and efficient. The Effect Tile is a perforated ceramic tile with an increased heat-emitting surface. The operating temperature is 1650° F which optimizes the infra-red energy delivered to the working level. All tiles are ground to size for full interchangeability and result in gasket-free joints between the tiles which simplifies maintenance if required.

- Aluminized steel burner housing and stainless steel tile retainers
- Balanced suspension points
- Direct spark ignition
- Each burner panel has dedicated ignition and flame sensing system
- Full operating temperature, and safe cool down, in 60 seconds
- Electrical: 24 VAC 0.55 Amp/20 VA per Heater
- Gas Inlet Pipe Size: 0.5"
- Nat. Gas Line Min.: 6 in. W.C.
- Nat. Gas Line Max.: 14 in. W.C.
- Nat. Gas Manifold: 5 in. W.C.

#### Minimum Distance to Combustibles

ecoSchwank	10	13	18	26
<b>Horizontal Mount</b>				
Top of Heater	24"	24"	30"	36"
Sides of Heater	27"	27"	33"	33"
End of Heater	24"	24"	30"	30"
Bottom of Heater	60"	78"	84"	84"
<b>Angle Mount (Max. Angle 30°)</b>				
Top of Heater	24"	24"	30"	36"
Front of Heater	60"	78"	84"	84"
Rear of Heater	24"	24"	30"	30"
End of Heater	24"	24"	30"	30"
Bottom of Heater	60"	78"	84"	84"

#### Suggested Mounting Distance for Comfort

ecoSchwank	10	13	18	26
<b>Horizontal Mount</b>				
Distance to Floor	16'	20'	24'	28'
Max. Heater Spacing	22'	28'	34'	39'
Max. Distance Between Heater Rows	30'	40'	50'	70'
<b>Angle (Max. Angle 30°)</b>				
Distance to Floor	13'	17'	20'	22'
Max. Heater Spacing	22'	28'	34'	39'
Max. Distance Between Heater Rows	30'	40'	50'	70'

#### Heaters

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	88529	ECOSCHWANK 10 35,000 BTU HIGH INTENSITY HEATER	—
1	EA	88530	ECOSCHWANK 13 50,000 BTU HIGH INTENSITY HEATER	—
1	EA	88531	ECOSCHWANK 18 71,500 BTU HIGH INTENSITY HEATER	—
1	EA	88532	ECOSCHWANK 26 100,000 BTU HIGH INTENSITY HEATER	—

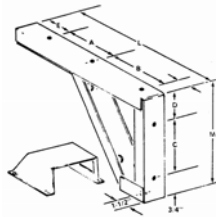
#### Accessories

1	EA	88533	JL-0776-XX 40 VA TRANSFORMER FOR LUMINOUS	—
1	EA	88534	JM-0300-XX RELAY FOR LUMINOUS	—

# QMARK® Space Mod™ Unit Heater

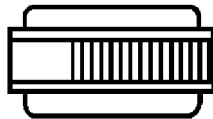


MUH Heater

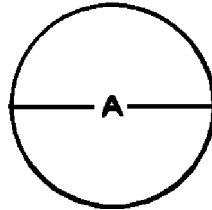


MMB Bracket

- 24V control transformers are standard on most models, providing a safer and more accurate means of temperature control.
- 3 Kw and 5 Kw, 208-227V, have line voltage controls as standard. (24V control available on made-to-order basis.)
- Meets all UL, NEC, and OSHA requirements. UL File No. E21609.



Air Flow Pattern



Air Flow Area

**Space Mod Dimensions**

Model No.	H	W	D
MUH-03,-05	16"	14"	7-1/2"
MUH-07,-10	21-3/4"	19"	7-1/2"
MUH-15,-20	21-3/4"	19"	12-3/4"

**Vertical Mounting**

Model with No Diffuser Added	Maximum Mount. Ht.	"A" Dimension
MUH-03,-05	9	18
MUH-07,-10	14	26
MUH-15	20	35

**Bracket Size**

Dimension	3-5 Kw	7.5-20 Kw
A	4-7/16"	7-1/4"
B	6-3/4"	9-1/2"
C	6-3/4"	7-1/4"
D	1-1/16"	1-15/16"
E	2"	2-1/4"
L	14-15/16"	20-1/2"
M	6-13/16"	9-15/16"

**Modular Unit Heaters (All Models Mount Horizontally or Vertically)**

Model No.	Volts	Phase	KW	BTU/hr. (000)	AMPS	Max. Mtg. Height (Ft.)	
						Horiz.	Vert.
MUH-05-21*	208/240	1-3	3.7/5.0	12.6/17.0	18.0/21.0	8	9
MUH-05-41	480	3	5.0	17.0	6.0	8	9
MUH-07-2	208/240	1-3	5.6/7.5	19.1/25.6	27.0/31.3	9	14
MUH-07-4	480	3	7.5	25.6	9.0	9	14
MUH-10-2	208/240	1-3	7.5/10.0	25.6/34.1	36.0/42.0	9	14
MUH-10-4	480	3	10.0	34.1	12.0	9	14
MUH-15-2	208/240	3	11.2/15.0	38.2/51.2	31.3/36.1	11	20
MUH-15-4	480	3	15.0	51.2	18.0	11	20

\* Must use 2-stage thermostat on 3 phase operation.

**MUH Heaters**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	63793	MUH-05-21 3.7/5KW 208/240 VOLT HEATER	—
1	EA	63795	MUH-05-41 5KW 480V HEATER	—
1	EA	63797	MUH-07-2 5.6/7.5KW 208/240VOLT HEATER	—
1	EA	63799	MUH-07-4 7.5KW 480VOLT HEATER	—
1	EA	63801	MUH-10-2 7.5/10KW 208/240VOLT HEATER	—
1	EA	63803	MUH-10-4 10KW 480VOLT HEATER	—
1	EA	63805	MUH-15-2 11.2/15KW 208/240VOLT HEATER	—
1	EA	63806	MUH-15-4 15KW 480VOLT HEATER	—

**MMB Unit Heater Accessories**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	63821	MMB-10 WALL/CEILING MOUNTING MTG BRACKET F/MUH 03-10	—
1	EA	63822	MMB-20 WALL/CEILING MOUNTING MTG BRACKET F/MUH 15 & 20	—
1	EA	63825	MT-1 SINGLE POLE SINGLE THROW THERMOSTAT SPST	—
1	EA	63826	MT-2 2-STAGE THERMOSTAT 2-STAGE	—

## QMARK® Replacement Parts Residential/Commercial

Fits the Following	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
MUH 5 KW 480/3	1	EA	63723	3900-2005-000 3900-0347-002 MOTOR	—
MUH 7.5 & 10 KW 480/3	1	EA	63725	3900-0347-005 MOTOR	—
MUH 15 KW 240V	1	EA	63726	3900-0361-500 208/230VOLT MOTOR	—
MUH-07-10-15-20	1	EA	63731	4520-0011-001 HIGH LIMIT	—



## QMARK® QMK-2000 Series Baseboard



For use in residential construction such as single family homes, apartments, modular or mobile homes as well as commercial, industrial, and institutional construction as primary, secondary, or supplemental heat for new construction or remodel applications.

- Easily installed without disassembly.
- Lead wires allow quick field connection to either end of heater.
- Continuous capillary tube safety thermal cutout protection in case of airflow blockage.
- Chimney fin element designed for maximum air circulation.
- All baseboards are white.
- U.L. Listed.

### Baseboard

Watts	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
400	1	EA	63644	QMK-2512-6W 2FT 6IN 120VOLT BASEBOARD	—
500/376	1	EA	63645	QMK-2542-6W 2FT 6IN 240/208VOLT BASEBOARD	—
750	1	EA	63646	QMK-2513W 3FT 120VOLT BASEBOARD	—
750/564	1	EA	63647	QMK-2543W 3FT 240/208VOLT BASEBOARD	—
1000	1	EA	63648	QMK-2514W 4FT 120VOLT BASEBOARD	—
1000/752	1	EA	63649	QMK-2544W 4FT 240/208VOLT BASEBOARD	—
1250	1	EA	63650	QMK-2515W 5FT 120VOLT BASEBOARD	—
1250/940	1	EA	63651	QMK-2545W 5FT 240/208VOLT BASEBOARD	—
1500	1	EA	63652	QMK-2516W 6FT 120VOLT BASEBOARD	—
1500/1128	1	EA	63653	QMK-2546W 6FT 240/208VOLT BASEBOARD	—
2000/1504	1	EA	63654	QMK-2548W 8FT 240/208VOLT BASEBOARD	—
2500/1800	1	EA	63675	QMK-25408W 8FT 240/208VOLT BASEBOARD	—

### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	63656	QMKA1AW 120-277VOLT SP T-STAT	—
1	EA	63657	QMKA2AW 120-277VOLT DP T-STAT	—
1	EA	63658	QMKA2TPAW 120-277VOLT DOUBLE PULL DP T-STAT (TAMPER RESISTANT)	—
1	EA	63659	QMK-ICAW INSIDE CORNER	—
25	EA	64979	M602W 2 POLE WHITE WALL STAT	—



## QMARK® 13.5 KW Portable Heater



This 13,500 watt, 3 phase heater delivers about 45,000 BTUs of sunlike radiant heat. Heat coverage is within a 45° arc up to 20 feet away (indoors). Unit can be operated safely indoors or out, and can be hosed off to clean after being disconnected. It operates standing upright, on its back, side, face, or upside down. Safety screen is included; the cord is not.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62205	BRM 13543 480VOLT PORTABLE INFRARED HEATER	—
1	EA	62206	BRM 135 13.5 KW CART KIT	—
1	EA	62207	BRMWG 135 13.5 KW SAFETY GRILLE KIT	—

## QMARK® 6 KW Portable Heater



This 6,000 watt, 3 phase heater delivers about 20,000 BTUs of sunlike radiant heat. Heat coverage is within a 45° arc up to 12 feet away (indoors). Unit is weatherproof and can be operated safely indoors or out, and hosed off to be cleaned after being disconnected. Can also be converted to single phase. Safety screen is included; cord is not.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62208	BRM 6023 240VOLT PORTABLE INFRARED HEATER	—
1	EA	62209	BRM 6043 480VOLT PORTABLE INFRARED HEATER	—
1	EA	62210	BRM 60 6 KW CART KIT	—
1	EA	62211	BRMWG 60 6 KW SAFETY GRILLE KIT	—

## QMARK® 4.5 KW Portable Heater

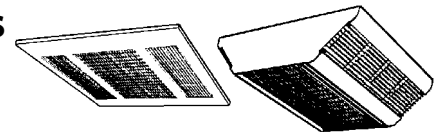


A 4,500 watt, 1 phase heater. Designed for heavy-duty spot heating or total heating applications. Mounting brackets are included with each heater. Heater can be washed down after being disconnected.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62212	BRM 4521 240VOLT PORTABLE INFRARED HEATER	—
1	EA	62213	BRM 45 4.5 KW CART KIT	—
1	EA	62214	BRMWG 45 4.5 KW SAFETY GRILLE KIT	—

## QMARK® CDF 500 Series Ceiling Mount Heaters

Prices and Availability Upon Request



Recessed Mount

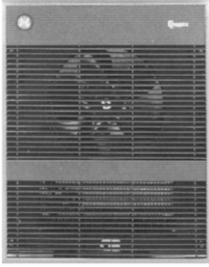
Surface Mount

These ceiling mounted, downflow heaters are designed for commercial and industrial areas requiring electric fan-forced heat. The design and capacities of 2000 to 5000 watts makes them ideal for use in workshops, hallways, restrooms, and entryways.

Model	Mounting	KW	BTU/Hr. (000)	Volts	Phase	Amps	CFM	° F D T
CDF-548	Heater	4/3/2	13.7/10.2/6.8	208	1-3	19.2/14.4/9.6	283	51
CDF-542	Section			240	1-3	16.7/12.5/8.3		
CDF-547	Only			277	1	14.4/10.8/7.2		
CDF-558	Heater	5/3.8/2.5	17.1/13.0/8.5	208	1-3	24.0/18.3/12.0	396	45
CDF-552	Section			240	1-3	20.8/15.8/10.4		
CDF-557	Only			277	1	18.1/13.7/9.0		
CDF-SE	Surface mounting enclosure only, to be used with above heater sections. Dimensions: 20" L x 16-1/2" W x 5-3/4" D.							
CDF-RE	Recess mounting enclosure only, to be used with above heater sections. Dimensions: 23-3/4" L x 23-3/4" W x 7" D.							



## AWH Series Architectural Wall Heaters

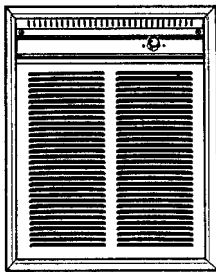


Fan-forced, metal sheath with integral tamper-resistant thermostat and disconnect switch included. Built-in fan delay switch energizes fan motor only after elements are heated...prevents discharge of unheated air. When heat shuts off, de-energizes fan motor after residual heat has been dissipated.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	63739	4101-68-002 THERMOSTAT	—
1	EA	63845	AWH-4404 3000/4000WATT WALL HEATER	—
1	EA	63848	AWH-SM SURFACE MTG FRAME	—



## CWH Series Wall Heaters Fan-Forced

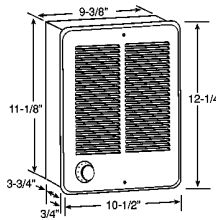


- Motor has permanently lubricated bearings.
- Element has automatic reset, primary thermal protector with "one-shot" back-up protection.
- 65 cfm downflow air pattern.
- 18 ga. louvered steel grille
- Wires with standard building wire (60° C).
- Built-in snap action thermostat.
- Volts: 208/240 (Single phase, 60 Hz. AC)
- Watts: 3000/4000
- Amps: 14.5/17.0
- BTU/Hr.: 10,240/13,650
- UL listed
- **Mounting Limitations:** Do not install heater closer than 8" from floor or adjacent wall surface; behind towel rack or door, upside down or side up, in floor, ceiling, or closet.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	63857	CWH-3404 3000/4000WATT WALL HEATER	—
1	EA	63858	CWH3SM SURFACE MOUNTING SLEEVE	—



## CRA Series Wall Heaters Residential Fan-Forced Zonal



Use single heaters in smaller rooms such as bedrooms and bathrooms. Use multiple heaters (controlled by a single thermostats) in larger rooms such as living rooms and family rooms. Wattage levels should be determined by heat loss calculations.

- Thermal cutout with indicator light and one time thermal fuse offer dual protection.

### Mounting Limitations

Do not install back box closer than 4.5 inches from floor, adjacent walls, and 12 inches from ceiling. Do not install heater in closet, or where airflow may be obstructed. To insure proper operation, maintain 5-foot minimum clearance to furniture or other objects placed directly in front of the heater.

Amps	Volts	Watts	BTU/HR	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12.5	120	1500	5118	1	EA	63833	CRA1512T2 1500W 120VOLT HTR	—
8.3/7.2	240/208	2000/1500	6824/5118	1	EA	63834	CRA2024T2 2000W 240VOLT HTR	—

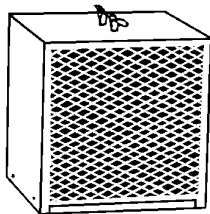
## QMARK® MUH35 Powerhouse Heater



- Mounts either on the wall or from the ceiling; for primary or spot heating. For use in factories, garages, schools, etc.
- Multiple wattage heat selector.
- Built-in, bi-metal thermostat with a range of 40° to 90° F.
- U.L. Listed

Volts	KW	BTU/HR	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
240	3.71/5.0	13,650/17,000	1	EA	63835	MUH35 5KW 240VOLT POWER HOUSE HTR	—

## QMARK® LFC402 Contractor's Buddy



Sturdy utility heater for temporary construction projects that need heat.

Volts	Watts	BTU/HR	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
240	4,000	13,650	1	EA	63837	BRH-402 4KW 240VOLT CONTRACTORS BUDDY HTR	—

## QMARK® MMHD Fan Forced Utility Heater



- 2 heat settings
- Automatic thermostat
- Fan Only setting
- Tip-over safety switch
- Internal heat limiting thermostat
- Thermal cut-off safety device
- Audible safety alert
- Grounded cord and plug
- One year warranty
- U.L. Listed

Volts	Watts	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
120	1300/1500	1	EA	63843	MMHD1502T/PT-771 PORTABLE HEATER	—

## QMARK® 202SL Personal Desk Panel Heater



Safe, personal, desk panel heaters operate at less than 2 amps. Costs less than \$1 a week to operate. Pays for itself in 90 days.

Volts	Watts	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
120	170	1	EA	63836	202SL-B "PERSONAL" DESK PANEL HTR	—

## Gas Conversion Burners Accessories and Parts



For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
P265	1	EA	60128	R33191A001 TIME DELAY RELAY	—
P265	1	EA	61820	60172-002 MOTOR AND BLOWER ASSY	—
P458, GPE	20	EA	71271	Q179A 1092 FLAME RECTIFIER PILOT	—

### ADAMS HP400B Power Gas Conversion Burner

MANUFACTURING COMPANY



- Shipped with pedestal mount
- Push button spark pilot light system
- 3/4" gas connection
- Slide out gas valve and manifold assembly
- Relay transformer for low voltage operation
- 8" tube length standard shipped with 5" extension for long requirements
- AGA Approved

#### HP400B Burner

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	61803	HP400B 8" NAT BURNER W/SLEEVE	—

#### Motor Blower Assembly

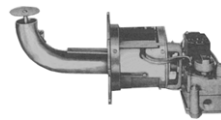
1	EA	61774	7586-2A MOTOR BLOWER ASSY	—
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### ADAMS HA300 and HU300 Gas Conversion Burners

MANUFACTURING COMPANY



HA-300 Inshot 300,000 BTU



HU-300 Upshot 300,000 BTU

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	61790	HA-300 NAT BURNER W/ADJ ORIFICE	—
1	EA	61791	HU-300 NAT BURNER W/ADJ ORIFICE	—

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# **Group 9 HVAC System Accessories**

## Group 9 HVAC System Accessories

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# Honeywell TAZ-4 TotalZone® Zone Control Panel

This zoning panel is used to add zones to the TZ-4 zone control panel.

- Each TAZ-4 panel adds control of up to 4 additional zones to the TZ-4 TotalZone Zone Control System.
- Reduces communication interference.
- Daisy chain TAZ-4 panels together to control up to 32 zones.
- Zone LEDs indicate damper position.
- Thermal circuit breaker protects panel.

- C7735A1000 Discharge Air Temperature Sensor mounts in the supply air duct to sense the delivered air temperature and cut off the heating or cooling when the delivered air temperature goes above or below normal operating limits.
- AT140D1046 Plate-Mounted Transformer 40VA provides low voltage power source for any Trol-A-Temp control panel or damper. Powers up to five ZD, or ARD damper motors from one 40 VA transformer.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	70299	C7089B 1000 OUTDOOR SENSOR	—
1	EA	78566	TAZ-4/U TOTALZONE ADD-A-ZONE	—
1	EA	78643	C7735A1000/U DISCHARGE AIR SENSOR	—
1	EA	78659	AT140A 1042 24V, 40 VA TRANSFORMER PLATE MOUNTED	—

# Honeywell RedLINK™ Zoning Kits



## RedLINK™ Wireless Technology

RedLINK™ is the first wireless technology engineered specifically for HVAC applications. It eliminates the need to run wires in many applications and enables homeowners to have advanced comfort control anywhere in the home. The RedLINK signal has been tested and proven to work through concrete, brick and other building materials in homes up to 6,500 square feet with multiple levels. It works every time in every home.

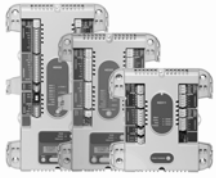
RedLINK's ability to "hop frequencies" means that the signal is secure. It won't affect or be affected by other wireless devices in the home such as baby monitors and cordless phones—or with neighboring systems. Internal safeguards continuously self-check the signal so it's never lost.

## Kits Include:

- 1 TH6320R1004 FocusPro and 1 THX9321R500 Prestige thermostat
- TrueZONE Panel (HZ432)
- THM4000R1000 Wireless Adapter
- REM5000R1001 Portable Comfort Control
- C7089R-1013 Wireless Outdoor Sensor
- C7735A1000 Discharge Air Temperature Sensor
- AT140A1042 40VA Transformer

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	78503	YHZ432R 5108 REDLINK WIRELESS ZONING KIT PRESTIGE	—

## Honeywell HZ TrueZONE™ Panels



- Intuitive installer setup
- Robust push terminals
- Common-sense LEDs
- Universal application
- Smaller footprint
- Variable-speed fan control
- Discharge temperature staging
- Advanced dual-fuel operation

**HZ432:** 4 zone, 3H/2C panel used for conventional, heat pump or dual fuel systems; expand up to 32 zones with TAZ-4.

**HZ432K:** Includes (1) HZ432 panel, (1) transformer and (1) C7735A discharge air temperature sensor.

**HZ322:** 3 zone, 2H/2C panel used for conventional or heat pump equipment.

**HZ322K:** Includes (1) HZ322 panel, (1) transformer and (1) C7735A discharge air temperature sensor.

**HZ311:** 3 zone, 1H/1C panel used for conventional equipment.

**HZ311K:** Includes (1) HZ311 panel, (1) transformer and (1) C7735A discharge air temperature sensor.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	78481	HZ432/U TRUEZONE PANEL	—
1	EA	78482	HZ432K TRUEZONE SYSTEM KIT	—
1	EA	78485	HZ322/U TRUEZONE PANEL	—
1	EA	78486	HZ322K/U TRUEZONE SYSTEM KIT	—
1	EA	78489	HZ311/U TRUEZONE PANEL	—
1	EA	78490	HZ311K/U TRUEZONE SYSTEM KIT	—

## Honeywell Y8835A Networked Zoning Kit



**Includes:**

- (3) TH9421C 1004 thermostats
- (1) W8835A control panel
- (1) AT140 40va transformer
- (1) C7835A discharge air temperature sensor

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	78591	Y8835A 1028 ENVIRAZONE PANEL KIT 3 ZONE KIT	—

# Honeywell ZD Series Dampers



ZD dampers are designed to offer unparalleled performance in leakage and rigidity. The strong 24 volt spring return motor insures worry free operation. The power close, springreturn open feature insures fail safe operation.

### Ordering Instructions

Dimension 1 x dimension 2. Motor is always mounted on dimension 2 side.

### Features

- Kevlar gearing reduces wear, more than doubling damper life.
- Adjustable minimum position stops.
- Mechanical visual position indicator for damper status.
- Parallel blade design for low leakage performance.
- Quieter operation with fewer blades.
- Simple, easy-to-wire, two-wire installation.
- Rated up to 1 in. wc static pressure.

### Side Mount Dampers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	78760	ZD 8X8 DAMPER	—
1	EA	78761	ZDS/U 10X8/U SIDE MOUNT DAMPER	—
1	EA	78762	ZDS12X8/U SIDE MOUNT DAMPER	—
1	EA	78763	ZDS/U 14X8/U SIDE MOUNT DAMPER	—
1	EA	78764	ZDS 16X8 SIDE MOUNT DAMPER	—
1	EA	78765	ZDS 18X8 SIDE MOUNT DAMPER	—
1	EA	78766	ZDS20X8/U SIDE MOUNT DAMPER	—
1	EA	78767	ZDS 22X8/U SIDE MOUNT DAMPER	—
1	EA	78768	ZDS 24X8 SIDE MOUNT DAMPER	—
1	EA	78770	ZDS 10X10 SIDE MOUNT DAMPER	—
1	EA	78771	ZDS 12X10/U SIDE MOUNT DAMPER	—
1	EA	78772	ZDS/U 14X10/U SIDE MOUNT DAMPER	—
1	EA	78773	ZDS 16X10/U SIDE MOUNT DAMPER	—
1	EA	78774	ZDS 18X10 SIDE MOUNT DAMPER	—
1	EA	78775	ZDS 20X10 SIDE MOUNT DAMPER	—
1	EA	78776	ZDS 22X10 SIDE MOUNT DAMPER	—
1	EA	78777	ZDS 20X12 SIDE MOUNT DAMPER	—
1	EA	78792	ZDS 24X10 SIDE MOUNT DAMPER	—
1	EA	78804	ZDS 12X12 SIDE MOUNT DAMPER	—
1	EA	78805	ZDS 16X12/U SIDE MOUNT DAMPER	—
1	EA	78806	ZDS 18X12 SIDE MOUNT DAMPER	—
1	EA	78807	ZDS 22X12 SIDE MOUNT DAMPER	—
1	EA	78808	ZDS 24X12 SIDE MOUNT DAMPER	—
1	EA	78812	ZDS 14X14 DAMPER	—
1	EA	78813	ZDS 16X14/U SIDE MOUNT DAMPER	—
1	EA	78814	ZDS/U 18X14 SIDE MOUNT DAMPER	—
1	EA	78815	ZDS 20X16 SIDE MOUNT DAMPER	—

### Bottom Mount Dampers

1	EA	78778	ZDB 8X10/U BOTTOM MOUNT DAMPER	—
1	EA	78779	ZDB 8X12/U BOTTOM MOUNT DAMPER	—
1	EA	78780	ZDB/U 8X14/U BOTTOM MOUNT DAMPER	—
1	EA	78781	ZDB 8X16/U BOTTOM MOUNT DAMPER	—
1	EA	78782	ZDB 8X18/U BOTTOM MOUNT DAMPER	—
1	EA	78783	ZDB 8X20/U BOTTOM MOUNT DAMPER	—
1	EA	78784	ZDB 8X24/U BOTTOM MOUNT DAMPER	—
1	EA	78785	ZDB/U 10X12/U BOTTOM MOUNT DAMPER	—
1	EA	78786	ZDB 10X14 BOTTOM MOUNT DAMPER	—
1	EA	78787	ZDB/U 10X16 BOTTOM MOUNT DAMPER	—
1	EA	78788	ZDB 10X18/U BOTTOM MOUNT DAMPER	—
1	EA	78789	ZDB/U 10X20/U BOTTOM MOUNT DAMPER	—
1	EA	78790	ZDB 10X22 BOTTOM MOUNT DAMPER	—
1	EA	78791	ZDB 10X24/U BOTTOM MOUNT DAMPER	—
1	EA	78796	ZDB 8X22 BOTTOM MOUNT DAMPER	—
1	EA	78809	ZDB 12X14 BOTTOM MOUNT DAMPER	—
1	EA	78810	ZDB 12X16 BOTTOM MOUNT DAMPER	—
1	EA	78811	ZDB 12X18 BOTTOM MOUNT DAMPER	—
1	EA	78816	ZDB 14X18/U BOTTOM MOUNT DAMPER	—
1	EA	78817	ZDB 14X20 BOTTOM MOUNT DAMPER	—
1	EA	78826	ZDB/U 12X24 BOTTOM MOUNT DAMPER	—
1	EA	78827	ZDB 12X20 BOTTOM MOUNT DAMPER	—

### ZD Replacement Motor

1	EA	78795	M847D1012/U MOTOR F/ZD/ARD DAMPERS	—
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## Honeywell Automatic Round Dampers



A single blade damper constructed with 24-gauge galvanized steel. The single blade design includes a gasketed seal for tight shut-off and can be installed on systems with up to 0.8" of static. The ARD can be installed in any rigid or flexible round duct system. The ARD comes power closed but can be easily field converted to power open.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	78618	ARD6/U 6" AUTOMATIC ROUND DAMPER	—
1	EA	78719	ARD8/U 8" AUTOMATIC ROUND DAMPER	—
1	EA	78720	ARD10/U 10" AUTOMATIC ROUND DAMPER	—
1	EA	78721	ARD12/U 12" AUTOMATIC ROUND DAMPER	—
1	EA	78722	ARD14/U 14" AUTOMATIC ROUND DAMPER	—
1	EA	78723	ARD16 16" AUTOMATIC ROUND DAMPER	—

## Honeywell Retrofit Round Damper



- Durable. Damper is manufactured with a 1/2" blade shaft.
- Easy Installation. Visual position indicator, range stops and manual position adjustment.
- Universal compatibility. All of Honeywell's zoning products are powered on 24VAC circuit, making all products universally compatible.
- Less leakage. Cycle tested to 100,000 cycles <5% leakage at .5 wc.
- Accessory Option. Offers wireless thermostat and module compatible with conventional zone panels which can significantly reduce labor and makes retrofit possible in many applications.
- Easily Expandable. Features a 2.5VA actuator, enabling the connection of up to 12 dampers on any of the Honeywell zone panels without a damper expansion module.
- 5-year warranty.
- NEMA 1 and UL rated actuator.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	78822	RRD5 5 INCH ROUND RETROFIT ZONING DAMPER	—
1	EA	78823	RRD6/U 6 INCH ROUND RETROFIT ZONING DAMPER	—
1	EA	78824	RRD7 7 INCH ROUND RETROFIT ZONING DAMPER	—
1	EA	78825	RRD8 8 INCH ROUND RETROFIT ZONING DAMPER	—

# Honeywell Static Pressure Relief Systems

## Barometric Bypass



SPRD Rectangular



SPRD Round

### Model SPRD Static Pressure Relief Damper

The SPRD is a single-blade, steel barometric damper with a counter-balanced, weighted arm for control of bypass air for zone systems. The SPRD is available in rectangular, square, or round styles. A SPRD is used on zone systems when the automatic closing of various zone dampers creates an excessive increase in air pressure and velocity throughout the duct system. An SPRD will automatically open as the air pressure in the duct system increases, eliminating excessive system air pressure and associated air and register noise.

Sizing the SPRD is done by subtracting the smallest zone's CFM requirements from the system's total available CFM. When sizing the system, it is recommended that the SPRD be located in a common duct ensuring that whenever system static pressure rises above designed specifications the SPRD will open to relieve the system of the excess pressure.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	78736	SPRD 12X8/U STATIC PRESS RELIEF DAMPER	—
1	EA	78737	SPRD 12X10 STATIC PRESS RELIEF DAMPER	—
1	EA	78738	SPRD 12X12 STATIC PRESS RELIEF DAMPER	—
1	EA	78609	SPRD 20X8 STATIC PRESS RELIEF DAMPER	—
1	EA	78739	SPRD 20X10 STATIC PRESS RELIEF DAMPER	—
1	EA	78740	SPRD 20X12 STATIC PRESS RELIEF DAMPER	—
1	EA	78741	SPRD 7" RND STATIC PRESS RELIEF DAMPER	—
1	EA	78742	SPRD 8" RND STATIC PRESS RELIEF DAMPER	—
1	EA	78743	SPRD10/U 10" RND STATIC PRESS RELIEF DAMPER	—
1	EA	78744	SPRD12/U 12" RND STATIC PRESS RELIEF DAMPER	—
1	EA	78745	SPRD 14/U RND STATIC PRESS RELIEF DAMPER	—
1	EA	78746	SPRD 16" RND STATIC PRESS RELIEF DAMPER	—

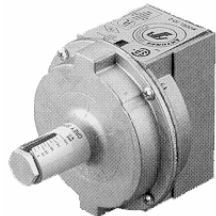
# Honeywell Modulating Dampers and SPC Static Pressure Control



MARD

### Model MARD Modulating Automatic Round Damper

The MARD is a single-blade, modulating round motorized damper using a 90 second open to closed motor. The MARD modulates open when the duct pressure rises above the null (off) setting and modulates closed when the duct pressure falls below the null setting. This can also be used as a zone damper.



SPC

### Model SPC Static Pressure Control

The SPC is used to sense the supply air static pressure and control a MOBD/MARD to maintain a set system pressure. The SPC operates from 0.1" to 4.0" w.c. with a fixed differential. On pressure rise it modulates the damper open and on pressure fall it modulates the damper closed.

## MARD Modulating Automatic Round Dampers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	78715	MARD/U 8" MODULATING AUTO RD. DAMPER	—
1	EA	78716	MARD/U 10/U MODULATING AUTO RD. DAMPER	—
1	EA	78717	MARD 12" MODULATING AUTO RD. DAMPER	—

## SPC Static Pressure Control

1	EA	78718	SPC STATIC PRESSURE CONTROL	—
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# Honeywell Y8835A EnviraZone System Saver Kits



**EnviraZone Kits:**

- Creates a networked zoning system when three T8635L Microelectronic Communicating Programmable Thermostats are used.
- Compatible with conventional gas, oil, electric or heat pump systems up to 3H/2C.
- Unsurpassed ease-of-wiring with only three wires to connect between devices.
- True communicating system using standard thermostat wire.

**Networked zoning:**

- Time synchronization.
- Shared-filter indication.
- Outdoor temperature display in all zones with only one C7089B Outdoor temperature sensor connected.
- Vacation hold in all zones.
- Check LED in all zones.
- Auto-changeover by zone.
- Individual fan control in each zone.

- Selectable high and low equipment protection settings.
- Adjustable stage timing.
- Adjustable purge timing and damper positions.
- Single network can use up to nine T8635L thermostats and two W8703 damper interface modules to control nine zones.
- Telephone access when used with optional W8735B telephone access modules.
- Uses zone of greatest demand intelligence.
- Allows use of EnviraCom furnace board or traditional furnace boards.
- Optional use of two transformers for power when many dampers are needed.
- **Y8835A 1010:** three zones kit includes three T8635L Thermostats, one W8835A Zone Manager, one C7835A Discharge Air Temperature Sensor and one AT40D System Transformer.
- **Y8835A 1028:** 3 zone kit includes (1) W8835 zone panel and (3) VisionPro IAQ Thermostats

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	78819	Y8835A 1010 3 ZONE ENVIRAZONE SYSTEM KIT	—
1	EA	78591	Y8835A 1028 ENVIRAZONE PANEL KIT 3 ZONE KIT	—
1	EA	73347	TH9421C1004/U VISIONPRO IAQ TOTAL HOME COMFORT THERMOSTAT	—

# Honeywell Networked Zoning



W8635A



W8735B

### W8735B Telephone Access Module

The W8735B provides remote telephone access to an HVAC system to check or change the thermostat temperature and system mode when used with a T8635L thermostat and a W8635 EIM.

The W8735B can be used with conventional or heat pump applications (must order W8635B EIM for heat pump applications) and can provide remote access to as many as nine zones when used with the W8703A DIM. The module reports an alert message on high or low temperature and up to three telephone numbers can be programmed for alert messaging.

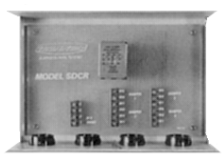
**Terminals:** 1,2,3, Aux1, Aux2, Ln2, Ln2, Ph1, Ph2, Line in, Phone out.

### C7835A1009 Discharge Air Temperature Sensor

(DATS) is a duct-mounted temperature probe that provides capacity control of heating and cooling equipment. It is used only with Honeywell networked zoning. Mounted in the supply air duct, the DATS senses the delivered air temperature and cuts off the heating or cooling when the delivered air temperature goes above or below normal operating limits. The heating and cooling limits are field-adjustable. The DATS also compares the discharge air temperature to the room temperature and, if out of tolerance, a heating or cooling alert is issued. In normal operating, the heat and cool lights are off, and the COM light blinks periodically with activity on the envircom bus.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	78547	W8735D 1009 2 CHANNEL TELEPHONE ACCESS MODULE	—
1	EA	78548	W8735D 1017 4 CHANNEL TELEPHONE ACCESS MODULE	—
6	EA	78707	C7835A 1009 DISCHARGE AIR SENSOR	—
1	EA	78709	W8635A 1006 EQUIPMENT INTERFACE MODULE	—

# Honeywell Zone System Parts and Accessories



SDCR

### SDCR Slave Damper Control Relay

Required when more than two dampers are installed on any one zone. The SDCR controls up to four additional dampers on a single zone, ensuring proper damper operation and power.

### FPC Freeze Protection Control

Replaces the model AFUC. This two wire temperature sensor easily clips on to the suction line and monitors suction line temperature. The FPC opens at 36° and closes at 46°. Wires into the Y leg to the compressor.



PIRR

### MSTN Motor Switch Terminal Assembly

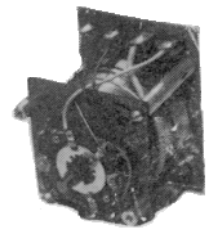
Replacement motor for AOBD, AOBD-BM, and IOBD dampers. MSTN includes the motor assembly and an allen wrench for fast, easy replacement.

### FADS Fresh Air Damper Switch

A SPDT switch used to open and close a damper manually.

### PIRR Plug-in Replacement Relay

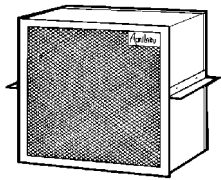
Four pole double throw replacement plug-in relay for MM-2, MM-3, SDCR, and MABS panels. Also used on all Trol-A-Temp relay panels.



MSTN

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	78650	MSTN/U DAMPER MOTOR	—
1	EA	78657	PIRR PLUG-IN RELAY	—
1	EA	78751	SDCR SLAVE DAMPER CONTROL RELAY	—
1	EA	78753	FPC/U FREEZE PROTECTION CTRL SWITCH	—

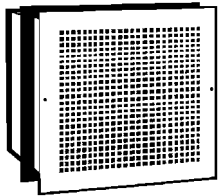
## Aprilaire® 350 & 360 Self-Contained Humidifiers



Designed specifically for installation in homes with radiators or baseboard heat. The 350/360 models are flexible enough to work equally well with central heating and cooling systems.

### Model 350

This model is designed especially for basement installations of hydronically heated homes, but is equally suitable for use with any other type of heat. The unit can also be installed in a closet, utility room, or heated crawl space. The Model 350 can be installed independently of the forced air heating system in a conditioned space to provide humidity as needed. Humidistat and saddle valve are included.



### Model 360

This model is designed especially for any residence, condominium, town house, or apartment, regardless of the type of heating system. It is installed through the wall and is completely independent of the heating system. Humidistat and saddle valve are included.

### Specifications

- Evaporative Capacity: 0.5 gallons of water per hour using 140° service hot water at unit.
- Volume of Home (cubic feet): Loose Home 9,000 cu. ft. 2 air changes per hour. Average Home 18,000 cu. ft. 1 air change per hour. Tight Home 36,000 cu. ft. 1/2 air change per hour.

### Dimensions:

- **Model 350:** 13-1/4" W x 12-3/4" H x 15" D.
- **Model 360:** 13-1/4" W x 12-3/4" H x 12-1/2" D.
- Wall frames and Grille: 16-1/2" W x 15-1/2" H.
- Ductwork: Model 350 (not supplied) 7" diameter round ductwork to supply grille. Supply grille 50 square inches of free area minimum.
- Drain Connection: 1/2" I.D. plastic hose direct to drain fitting on unit.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	EA	41511	350 SELF CONTAINED DUCTED APRILAIRE HUMID	—	—	—
1	EA	41512	360 SELF CONTAINED THRU THE WALL APRILAIRE HUMID	—	—	—

## Aprilaire® 400 Whole-House Humidifier



The Aprilaire 400 whole-house humidifier features a built-in bypass damper and utilizes new evaporative technology to minimize water use. Gravity pulls water down, while the wicking action of the Water Panel® draws it back to the top, using 100% of the water delivered to the unit.

- Features truly automatic control.
- Has an evaporation capacity of 0.70 gallons per hour.
- Humidifies tightly-constructed homes up to a 4,000 square foot in size.
- 5 year warranty
- Unit Dimensions (In.): 15-3/8 W x 15-3/4 H x 10-1/4 D
- Plenum Opening (In.): 9-7/8 W x 12-5/8 H

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
24	EA	41190	400 DRAINLESS AUTOMATIC HUMIDIFIER (LARGE BYPASS)	—	—	—



## Aprilaire® 500 Humidifier



This unit utilizes a manual humidifier control that can be installed in the living area or on the furnace ductwork. Along with all other models, it is equipped with a drain to flush minerals from the system. The Model 550 has an evaporative capacity of .50 gallons per hour.

- Unit Size (In.): 15-3/8 W x 13 H x 10-1/4 D
- Plenum Opening (In.): 9-1/2 W x 9-1/2 H
- 5 year warranty

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
27	EA	41191	500 AUTOMATIC HUMIDIFIER (SMALL BYPASS)	—	—	—
27	EA	41192	500M MANUAL HUMIDIFIER (SMALL BYPASS)	—	—	—

## Aprilaire® 600 Humidifier



A computer equipped bypass humidifier that features state-of-the-art automatic control. The feature that makes the Model 600 revolutionary is its ability to be installed with an outdoor sensor for automatic operation or without the outdoor sensor for manual operation.

- 5 year warranty
- Unit Size (In.): 15-3/8 W x 15-3/4 H x 10-1/4 D
- Plenum Opening (In.): 9-7/8 W x 12-5/8 H

- Humidistat that can be operated in either the automatic or manual mode.
- Built-in bypass damper. No need to carry extra parts.
- Reversible housing. Allows for quick conversion to a right or left hand bypass without using any tools.
- Reduce inventory. One unit replaces the 558, 560, and 568 models. One unit on the truck to satisfy customers needs.
- Conveniently labeled for summer and winter settings.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
24	EA	41193	600 AUTOMATIC HUMIDIFIER (LARGE BYPASS)	—	—	—
24	EA	41194	600M MANUAL HUMIDIFIER (LARGE BYPASS)	—	—	—

## Aprilaire® 700 Humidifier



Plenum mounted power humidifier features easy installation. Non-rust construction features safe proven flow-through design for two way elimination of trouble causing minerals. Humidistat and saddle valve are included.

Aprilaire® Automatic Humidifier is the world's first completely automatic humidifier, featuring an exclusive automated "no-touch" computer operation that eliminates the need for constant manual adjustments.

### Specifications

- 5 year warranty
- Dimensions (In.): 15-29/32 W x 15-31/32 H x 10-11/32 D
- Plenum Opening (In.): 15 W x 14-3/16 H
- Drain Connection: 1/2" ID Plastic Hose Direct to Drain Fitting on Unit.
- Evaporative Capacity: .75gph

### Sq. Ft. Area

- Loose: 1050
- Average: 2,100
- Tight: 4,200

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
24	EA	41195	700 AUTOMATIC HUMIDIFIER (FAN POWERED)	—	—	—
24	EA	41196	700M MANUAL HUMIDIFIER (FAN POWERED)	—	—	—

# Aprilaire® 800 Humidifier



- Proven design using electrode technology perfected by Dri-Steam®.
- Remote or duct mount with no additional accessories
- No cleaning or scrubbing, simply remove canister and replace
- Steam dispersion technology, ensures proper dispersion into the air, preventing condensation in duct
- Water filtration not needed even in most difficult conditions
- Water hardness—3 to 36 grain per gallon
- Supply water pressure must be between 25 psi and 120 psi
- Drain water flushes with fresh inlet water
- Electrical draw 11.5 amps +/- 10%, use 12.7 amps when sizing circuit
- 208 or 240v, run two conductors plus neutral plus ground
- Canister replacement once per humidifier season under normal conditions

Voltage	kW	Max. Steam Capacity Gal./Day	Current Draw (amps)	Dimensions (W x H x D) (In.)	Humidifier Unit Operating Weight (Lbs.)
120V	1.4	11.5	11.5	10-1/8 x 20-7/8 x 7-1/8	23
208V	2.4	20.5	11.5		23
240V	2.8	23.3	11.5		23

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	EA	70048	800 STEAM HUMIDIFIER WITH AUTOMATIC DIGITAL CONTROL	—	—	—
6	EA	70049	80 REPLACEMENT STEAM CANISTER MODEL 800	—	—	—
4	EA	70053	850 FAN PACK FOR 800 STEAM HUMIDIFIER	—	—	—

# Aprilaire® Evaporator Elements for Humidifiers

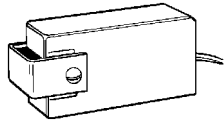
For Use with the Following	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 4 CTNS
110, 220, 550, 558	10	EA	41610	10 WATER PANEL RP EVAP ELEMENT	—	—	—
112, 224, 225, 440, 445, 448	10	EA	41607	12 WATER PANEL 445, 448)RP EVAP ELEMENT	—	—	—
350, 360, 560, 568, 600, 700, 760, 768	10	EA	41608	35 WATER PANEL	—	—	—
400	2	PKG	41609	45 WATER PANEL	—	—	—
1200	1	EA	41518	1200 WATER PANEL RP EVAP ELEMENT	—	—	—

# Aprilaire® Humidifier Parts

For Use with the Following	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
558, 568, 600, 768	1	EA	41523	56 AUTO-TRAC CONTROL SYSTEM	—
400, 500, 600, 700	1	EA	41652	60 AUTOMATIC DIGITAL HUMIDIFIER CONTROL W/BLOWER ACTIVATION	—
800	1	EA	41653	62 AUTOMATIC DIGITAL HUMIDIFIER CONTROL FOR 800 STEAM ONLY	—
330	12	EA	41642	4004 IN LINE STRAINER	—
110, 112	1	EA	41625	4005 RP SOLENOID VALVE	—
110, 220	144	EA	41598	4007 RP WHITE ORIFICE	—
All	1	EA	41622	4010 RP TRANSFORMER	—
112, 224, 330	144	EA	41595	4021 RP RED ORIFICE	—
110, 112, 220, 224, 440	6	EA	41672	4038 DRAIN SPUD REPL KIT	—
220, 224, 440, 558, 568, 600, 768	1	EA	41674	4040 24V RP SOLENOID VALVE	—
350, 360, 440	1	EA	41724	4079 FEED TUBE & NOZZLE	—
440, 445	1	EA	41726	4081 WATER DISTR TRAY	—
445	1	EA	41677	4087 FLOAT RP FLOAT VALVE ASSY	—
445	1	EA	41678	4088 RP FLOAT	—
445	1	EA	41680	4090 FAN BLADE	—
445	1	EA	41681	4091 HOSE & NOZZLE	—
445	6	EA	41683	4093 RESERVOIR LINER	—
445	6	EA	41711	4148 IMPELLER	—
350, 360	1	EA	41751	4182 DISTR TRAY COATED	—
350, 360	1	EA	41752	4183 DISTR TRAY COVER	—
350, 360, 558, 568	1	EA	41753	4184 NOZZLE	—
350	1	EA	41758	4189 MOTOR	—
350, 360	1	EA	41760	4191 SOLENOID VALVE	—
550, 558	10	EA	41664	4217 SCALE CONTROL INSERT	—
550, 558	1	EA	41665	4218 WATER DISTRIBUTION TRAY	—
550, 560, 558, 568, 600	6	EA	41666	4223 DRAIN SPUD	—
550, 558	1	EA	41668	4226 FEED TUBE FEED TUBE W/COMP SLEEVE	—
400, 400A, 500, 500A, 500M, 550, 560, 600, 600A, 600M	144	EA	41725	4231 RP YELLOW ORIFICE	—
350, 360, 700, 700A, 700M, 760	144	EA	41723	4232 ORIFICE BLUE	—
760, 768	1	EA	41773	4235 FEED TUBE	—
560, 760, 568, 768	12	EA	41776	4236 SCALE CONTROL INSERT	—
760, 768	1	EA	41777	4237 MOTOR	—
760, 768	1	EA	41778	4238 CIRCUIT BOARD	—
760, 768	1	EA	41596	4239 FEMALE DISCONNECT ASSBLY	—
760, 768	1	EA	41597	4240 MALE DISCONNECT ASSBLY	—
760, 768	1	EA	41779	4242 COVER	—
760, 768	1	EA	41780	4246 WATER DISTRIBUTION TRAY	—
760, 768	1	EA	41781	4247 FAN BLADE	—
110, 112, 350, 360, 445, 1120, 1130, 1140	1	EA	41646	4258 120V RELAY TRANS	—
560, 568	1	EA	41685	4266 FEED FEEDER TUBE F/560	—
560, 568	1	EA	41663	4277 WATER DIST TRAY F 560	—
600	1	EA	41599	4330 SCALE CONTROL INSERT	—
600	1	EA	41600	4331 WATER DISTRIBUTION TRAY	—
600	1	EA	41601	4332 600 DAMPER ASSEMBLY	—
400, 600	1	EA	41770	4335 FEED TUBE	—
500A, 500M	10	EA	41330	4640 INSERT SCALE CONTROL	—
500M, 600M, 700M	1	EA	41623	4655 MANUAL HUMIDIFIER CONTROL	—
700A, 700M	1	EA	41730	4740 RELAY	—
600, 700	1	EA	41333	4851 BLOWER ACTIVATION RELAY	—
558, 568, 600, 768	1	EA	41524	8052 DUCT OR OUTDOOR MOUNT AUTOTRAC SENSOR AND SHIELD	—



## 50 & 51 Current Sensing Relays



### Model 50

For interfacing Aprilaire Humidifiers with heat pumps and furnaces with multi-speed blower motors. This relay eliminates the need for time consuming, unreliable, and expensive alternative interfacing equipment such as sail switches, pressure switches, relays, and temperature switches. No need for line voltage wiring.

### Model 51

To interface electronic air cleaners with all types of forced warm air furnaces and air conditioning quickly, easily and inexpensively.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	41626	50 (A50) ELECTRONIC RELAY 24V	—
1	EA	41627	51 (A51) SENSING RELAY 115V	—



## Universal Humidifier Solenoid



All appropriate fittings are included in this kit with a universal bracket. Flow can easily be reversed by removing two screws, turning the solenoid 180 degrees, and replacing the screws.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	76772	UHS24 24V UNIVERSAL HUMIDIFIER SOLENOID	—

## Humidifier Installation Supplies



701-012



701-020



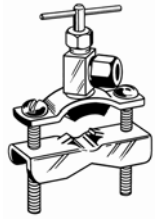
701-019



701-034



701-018



STV-2

### Clear Vinyl Drain Hose

Sold In Full Cartons Only

OD	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4 CTNS	PC-2 5 CTNS
29/32	100	FT	41612	79135 (100FT) 3/4 ID VINYL HOSE	—	—
1/2	100	FT	41613	79132 (100FT) 5137 3/8 ID VINYL HOSE	—	—
5/8	100	FT	41614	79133 (100FT) 5150 1/2 ID VINYL HOSE	—	—
3/4	100	FT	41615	79134 (100FT) 5162 5/8 ID VINYL HOSE	—	—

### Fittings for Drain Hose

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PKG	41578	701-012 3/8 BARB X 1/2 MPT ADAPTER 2/PKG	—
1	PKG	41580	701-020 1/2 BARB X 3/4 MPT ELBOW 2/PKG	—
1	PKG	41581	701-019 1/2 BARB X 3/4 FPT ELBOW 2/PKG	—
1	PKG	41582	701-034 1/2IN BARB TEE 2/PKG	—
1	PKG	41583	701-018 1/2IN BARB ELBOW 2/PKG	—

### Saddle Valve Fits Copper Tubing from 3/8

10	EA	45730	STV-2 SADDLE TAP VALVE	—
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# Honeywell TrueSTEAM™ Humidifier



- Mounts in minutes; requires only 1-3/4" cut into duct work
- Easy maintenance
- Fail-safe water sensing
- Patented condensate collect dome and nozzle
- Common-sense interface provides feedback to the technician during installation and also indicates to the homeowner when the system is running or needs service.
- Available in 6, 9, and 12 gallon models
- Mount directly to the duct or remotely up to 20 feet away into tight-fitting or unconditioned air spaces.
- 1:1 humidification delivery rate; operates independently of HVAC equipment
- Uses up to 90% less water
- 5 year warranty

## Humidifier with Manual Humidistat

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	EA	70458	HM506H8908/U TRUESTEAM HUMIDIFICATION SYS	—	—	—
1	EA	70459	HM509H8908/U TRUESTEAM HUMIDIFICATION SYS	—	—	—
1	EA	70493	HM512H8908/U TRUESTEAM HUMIDIFICATION SYS	—	—	—

## Wireless Humidifier (Humidistat not included)

1	EA	70490	HM506W 1005 WIRELESS TRUESTEAM HUMIDIFIER	—	—	—
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## Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	70461	50024917-001/U TRUESTEAM REMOTE HOSE KIT 10'	—
1	EA	70462	50024917-002 TRUESTEAM REMOTE HOSE KIT 20'	—
1	EA	70463	50028003-001 DUCT NOZZLE	—
1	EA	70464	50028001-001 REMOTE NOZZLE	—
1	EA	70465	50027997-001/U SOLENOID VALVE	—
1	EA	70466	50028044-001/U IN-LINE WATER FILTER	—
1	EA	70468	50030142-001 BACK-FLOW WATER VALVE	—
1	EA	70470	50027910-001 DIFFERENTIAL PRESSURE SWITCH	—
12	EA	78493	DG115EZIAQ/U TRUE IAQ DIGITAL CONTROL	—
1	EA	70499	50045947-001/U RO FILTER SYSTEM WITH STORAGE TANK	—
1	EA	70500	50046086-001/U FILTER REPLACEMENT KIT	—
12	PKG	70496	50044721-001 WATER HARDNESS TEST KIT	—
1	EA	70471	50027998-002/U WATER LEVEL SENSOR	—



# HE Whole House Humidifiers



HE225, HE265



HE365

- Proven technology used for high performance humidification and enhanced comfort.
- Includes easy-to-use humidity control that mounts on the wall or duct for more flexible installation.
- Continuous flushing reduces the frequency of maintenance in a hard water installation.
- Antimicrobial coating on pad prevents the surface growth and migration of bacteria, mold, fungus, and algae on the humidifier pad.
- Bold new look with blue and white styling.
- AIRWATCH™ Indicator can be installed to remind homeowner to change humidifier pad.
- Five year warranty.

### True IAQ (DG115EZIAQ) Control

This control integrates humidification, dehumidification, ventilation, and even bathroom fans into a single device. Air quality and fan settings can be programmed individually or as a system. True IAQ automatically adjusts settings for changes in outside temperature and provides maintenance reminders to keep equipment operating at peak efficiency.

Compatible with: TrueSteam Humidifiers and Whole House Dehumidifiers, Ventilation, Ultraviolet Treatment, and Air Cleaners

Model	Humidifies Up to (Cu. Ft.)	Capacity GPD	Unit W x D x H (In.)	Plenum Opening W x H (In.)	Bypass Duct Opening (In.)	Includes
HE225	3,000	12	12 x 9-1/8 x 13-9/16	9-5/16 x 9-7/16	6	Humidifier pad, mounting template, self-piercing saddle valve, 24 Vac transformer and wire, humidistat.
HE265	4,000	17	13-9/16 x 9-1/4 x 16-3/4	9-3/4 x 12-5/8	6	

### "H" Models with Manual Control

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
10	EA	78187	HE225H8908/U 12GAL BYPASS HUMIDIFIER	—	—	—
10	EA	78188	HE265H8908/U 17GAL BYPASS HUMIDIFIER	—	—	—

### "DG" Models with True IAQ Control

10	EA	78192	HE225DG115 12GAL BYPASS HUMIDIFIER W/DIGITAL IAQ CONTROL	—	—	—
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### Accessories

For Use with the Following	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
HE360, 365	2	EA	74849	32001876-001/U SOLENOID VALVE ASSY HE360	—
HE220, 260, 225, 265	1	EA	74941	32001639-002/U SOLENOID VALVE ASSY HE220/260	—
HE220, 260, 225, 265	1	EA	74942	32001752-001/U HARDWARE KIT F/HE220/260	—
HE220, 260, 225, 265	1	EA	74944	32001615-001 DRAIN FITTING FOR HE220/HE260	—
Scuttle	10	EA	74945	HC36A 1007 HUMIDIFIER PAD FOR SCUTTLE	—
HE100A, 150A, 220, 225	10	EA	74946	HC22A1007/U HUMIDIFIER PAD FOR HE220	—
HE200A, 250A, 260, 265, 300A, 360	10	EA	74948	HC26A1008/U HUMIDIFIER PAD HE260/360	—
HE120	1	EA	74949	32000146-001 REPLACEMENT PAD W/CLIPS HE120	—
HE100A, 150A, 220, 225	10	EA	78136	HC22E1003/U AGION HUMIDIFIER PAD F/HE225/HE220	—
HE200A, 250A, 260A, 265, 300A, 350A, 360, 365	10	EA	78137	HC26E1004/U AGION HUMID PAD F/HE265/260/365/360	—
HE225	2	EA	78154	32001621-001 FRAME F/HE225	—
HE265, 365	2	EA	78155	32001632-001/U FRAME F/HE265-365	—
HE225	2	EA	78156	32001619-001 DISTRIBUTION TRAY F/HE225	—
HE265, 365	2	EA	78157	32001630-001/U DISTRIBUTION TRAY F/HE265-365	—
HE365	1	EA	78158	32005376-001 FAN MOTOR FOR HE360/365	—
See text above	12	EA	78493	DG115EZIAQ/U TRUEIAQ DIGITAL IAQ CONTROL	—
HE360	2	EA	74850	32001676-001/U PRINTED WIRING BOARD FOR HE360	—

# Honeywell TrueEase™ HE Evaporative Humidifiers

## Bypass and Fan Powered Models



### Basic Bypass Model Features

- Interchangeable bypass
- One-piece design
- Integrated wiring
- Quick-connect plumbing
- Familiar footprint
- User-friendly pad access

### Advanced Bypass Model Features

- Interchangeable bypass
- One-piece design
- Integrated wiring
- Quick-connect plumbing
- Familiar footprint
- User-friendly pad access
- Quiet operation
- Up to 30% water savings
- Energy savings

### Fan-Powered Model Features

- One-piece design
- Integrated wiring
- Quick-connect plumbing
- Familiar footprint
- User-friendly pad access
- Quiet operation

Model	Humidifies Up to (Cu. Ft.)	Capacity GPD	Unit W x D x H (In.)	Plenum Opening W x H (In.)	Bypass Duct Opening (In.)	Includes
HE100/150	16,000	12	14.1 x 10.1 x 14	9-5/16 x 9-7/16	6	Mounting template, humidifier pad, self-piercing valve, and humidistat.
HE200/250	20,000	17	15 x 10.1 x 17.15	9-3/4 x 12-5/8	6	
HE300	24,000	18	15.5 x 10.3 x 16.8	13-1/2 x 14-1/16	6	

### Bypass Humidifiers (Basic and Advanced)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
24	EA	78209	HE100A1000/U 12 GPD BASIC BYPASS EVAPORATIVE HUMIDIFIER	—	—	—
24	EA	78210	HE150A 1005 12 GPD ADVANCED BYPASS EVAPORATIVE HUMIDIFIER	—	—	—
18	EA	78211	HE200A 1000 17 GPD BASIC BYPASS EVAPORATIVE HUMIDIFIER	—	—	—
18	EA	78212	HE250A 1005 17 GPD ADVANCED BYPASS EVAPORATIVE HUMIDIFIER	—	—	—

### Fan-Powered Humidifier (Advanced)

8	EA	78213	HE300A1005/U 18 GPD ADVANCED FAN- POWERED EVAPORATIVE HUMIDIFIER	—	—	—
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### Accessories

For Use with the Following	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
Scuttle	10	EA	74945	HC36A 1007 HUMIDIFIER PAD FOR SCUTTLE	—
HE100A, 150A, 220, 225	10	EA	74946	HC22A 1007 HUMIDIFIER PAD FOR HE220	—
HE200A, 250A, 260, 265, 300A, 360	10	EA	74948	HC26A1008/U HUMIDIFIER PAD HE260/360	—
HE100A, 150A, 220, 225	10	EA	78136	HC22E1003/U AGION HUMIDIFIER PAD F/HE225/HE220	—
HE200A, 250A, 260A, 265, 300A, 350A, 360, 365	10	EA	78137	HC26E1004/U AGION HUMID PAD F/HE265/260/365/360	—
HE100A, 200A	2	EA	78217	50041883-002 AC SOLENOID VALVE	—
HE150A, 250A, 300A	2	EA	78218	50041883-001 DC SOLENOID VALVE	—
HE100A, 150A	2	EA	78219	50041861-001 FRAME AND TRAY FOR SMALL BYPASS MODELS	—
HE200A, 250A	2	EA	78220	50041861-002 FRAME AND TRAY FOR LARGE BYPASS MODELS	—
HE150A	2	EA	78221	50057547-002 HE150 CIRCUIT BOARD	—
HE250A	2	EA	78222	50057547-003 HE250 CIRCUIT BOARD	—
HE300A	2	EA	78223	50057547-001 HE300 CIRCUIT BOARD	—
HE300A	2	EA	78224	50045729-001 BLOWER AND MOTOR ASSEMBLY WITH ISOLATOR	—
HE300A	2	EA	78225	50041919-001 FRAME AND TRAY ASSEMBLY FOR FAN MODEL	—
HE300A	2	EA	78226	50052653-001 WIRE TERMINAL COVER FOR FAN MODEL	—
HE100A, 150A	2	EA	78227	32001652-002 10 VOLT TRANSFORMER	—
HE200A, 250A, 300A	2	EA	78228	50050349-001 15 VOLT TRANSFORMER	—





## Elite Flow-Through Fan Powered Humidifiers



Every GeneralAire Elite Flow-Through Humidifier features the patented KineticFlo® water distribution trough system. The Kinetic Flo® design assures that every square inch of the VaporPad® surface area is covered yielding top evaporative efficiency.

All GeneralAire Elite flow-through humidifiers are manufactured with DuraPlast®. DuraPlast® is an ultra-violet stable automotive grade plastic ensuring a durable quality design.

### 1000A

- Automatic humidistat
- 18.0 GPD
- Replacement evaporator/element: GA19, 990-13
- 10 year warranty
- Unit size (In.): 16 W x 16-1/2 H x 10 D
- Plenum opening (In.): 14 W x 12 H

### 1000M

- Manual humidistat
- 18.0 GPD
- Replacement evaporator/element: GA19, 990-13
- 10 year warranty
- Unit size (In.): 16 W x 16-1/2 H x 10 D
- Plenum opening (In.): 14 W x 12 H

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	EA	45742	1000A 18GPD 120V AUTOMATIC FAN POWERED HUMIDIFIER	—	—	—
1	EA	45744	1000M 18GPD 120V MANUAL FAN POWERED HUMIDIFIER	—	—	—



## Elite Flow-Through Bypass Humidifiers Designed for Smaller Sized Homes



Every GeneralAire Elite Flow-Through Humidifier features the patented KineticFlo® water distribution trough system. The Kinetic Flo® design assures that every square inch of the VaporPad® surface area is covered yielding top evaporative efficiency.

All GeneralAire Elite flow-through humidifiers are manufactured with DuraPlast®. DuraPlast® is an ultra-violet stable automotive grade plastic ensuring a durable quality design.

### 570M

- Manual humidistat
- Includes: M3 select-control
- 12.0 GPD
- Replacement evaporator/element: GA10
- Unit size (In.): 11-7/8 W x 13-3/8 H x 9-1/2 D
- Plenum opening (In.): 8-3/4 W x 9-1/2 H
- Bypass duct diameter (In.): 6

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	EA	45740	570M 12GPD 6IN 24V MANUAL BYPASS HUMIDIFIER	—	—	—



## Elite Flow-Through Bypass Humidifiers



Every GeneralAire Elite Flow-Through Humidifier features the patented KineticFlo® water distribution trough system. The Kinetic Flo® design assures that every square inch of the VaporPad® surface area is covered yielding top evaporative efficiency.

All GeneralAire Elite flow-through humidifiers are manufactured with DuraPlast®. DuraPlast® is an ultra-violet stable automotive grade plastic ensuring a durable quality design.

### 900A

- Automatic humidistat
- 17.0 GPD
- Replacement evaporator/element: GA19, 990-13
- 10 year warranty
- Unit size (In.): 12 W x 16-1/2 H x 10 D
- Plenum opening (In.): 8-3/4 W x 12 H
- Bypass duct diameter (In.): 6

### 900M

- Manual humidistat
- 17.0 GPD
- Replacement evaporator/element: GA19, 990-13
- 10 year warranty
- Unit size (In.): 12 W x 16-1/2 H x 10 D
- Plenum opening (In.): 8-3/4 W x 12 H
- Bypass duct diameter (In.): 6

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	EA	45741	900A 17GPD 6IN 24V AUTOMATIC BYPASS HUMIDIFIER	—	—	—
1	EA	45743	900M 17GPD 6IN 24V MANUAL BYPASS HUMIDIFIER	—	—	—



## Elite Steam Duct Mount Humidifiers



The Elite Steam is an electrode humidifier that produces steam for humidification by passing electric current through the water between metal electrodes in the plastic steam generator cylinder.

- Integrated smart monitoring drain pump assembly
- Self contained immersed electrode design
- Disposable steam generating cylinder
- High water level and foam detection monitoring
- Drain tempering
- 20% adjustable capacity from rated max output
- Integrated AHU fan relay for on demand humidification

### DS15P

- Automatic humidistat
- 15.8 GPD
- Replacement evaporator/element: 15-14
- 2 year warranty
- Unit size (In.): 13-1/8 W x 23-3/4 H x 8-1/4 D

### DS25LC

- Automatic humidistat
- Includes: low conductivity cylinder
- 25-35 GPD
- Replacement evaporator/element: 35-14
- 2 year warranty
- Unit size (In.): 13-1/8 W x 23-3/4 H x 8-1/4 D

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	EA	45679	DS15P 15 GAL 120V ELITE STEAM W/DRAIN PUMP HUMIDIFIER	—	—	—
1	EA	45681	DS25PLC 25 GAL 230V W/DRAIN PUMP ELITE STEAM HUMIDIFIER	—	—	—
1	EA	45624	DMNKIT DUCT MOUNT KIT INCLUDES 8FT HOSE FOR DS35/DS15	—	—	—

NOTE: The DMNKit is required with the DS15P and DS25LC.

## **GENERALAire** Legacy Flow-Through Bypass Humidifier



A portion of the heated air from the furnace passed through a water-soaked Vapor Pad® where it absorbs additional moisture and then returns for distribution throughout your home.

Water is metered into a patented KineticFlo™ trough and uniformly dispersed across the Vapor Pad®. Unevaporated water drains from the bottom of the unit to eliminate mineral build-up.

### **1042-LH**

- Manual humidistat
- Includes: M3 select-control
- 19.2 GPD
- Replacement evaporator/element: 990-13
- 5 year warranty
- Unit size (In.): 15 W x 11-1/2 H x 9 D
- Plenum opening (In.): 10-1/4 W x 9-1/2 H
- Bypass duct diameter (In.): 6

### **1099-LHS**

- Manual humidistat
- Includes: M3 select-control
- 23.0 GPD
- Replacement evaporator/element: GA23, 1099-20
- 5 year warranty
- Unit size (In.): 16 W x 16 H x 11 D
- Plenum opening (In.): 13-1/4 W x 9-1/4 H
- Bypass duct diameter (In.): 7

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	EA	45662	1042LH 19.2 GPD 24V FLOW THROUGH BY-PASS HUMIDIFIER	—	—	—
1	EA	45634	1099LHS 23.1 GPD 24V FLOW THROUGH BY-PASS HUMIDIFIER	—	—	—

## **GENERALAire** Legacy Flow-Through Fan Powered Humidifier



A portion of the heated air from the furnace passed through a water-soaked Vapor Pad® where it absorbs additional moisture and then returns for distribution throughout your home.

Water is metered into a patented KineticFlo™ trough and uniformly dispersed across the Vapor Pad®. Unevaporated water drains from the bottom of the unit to eliminate mineral build-up.

- Manual humidistat
- Includes: M3 select-control
- 21.3 GPD
- Replacement evaporator/element: 990-13
- 5 year warranty
- Unit size (In.): 16 W x 14 H x 10 D
- Plenum opening (In.): 15 W x 9-1/2 H

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	EA	45657	1137 21.3 GPD 120V DRAIN TYPE FAN POWER HUMIDIFIER	—	—	—

## **GENERALAire** Legacy Drum Bypass Humidifier



- Manual humidistat
- Includes: M3 select-control
- 13.3 GPD
- Replacement evaporator/element: 65-5
- 1 year warranty
- Unit size (In.): 10 W x 9 H x 9-1/2 D
- Plenum opening (In.): 7-3/4 W x 5-3/4 H
- Bypass duct diameter (In.): 5

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	EA	45664	65 13.3 GPD 24V DRUM TYPE BY-PASS HUMIDIFIER	—	—	—

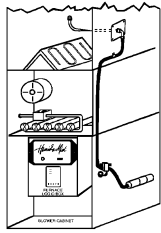

**Parts and Evaporator Elements**
**Evaporator Elements**

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 4 CTNS
65	12	EA	45665	65-5 7IN W 5IN I.D. REPLACEMENT EVAPORATOR SLEEVE FOR MODEL 65	—	—	—
81	12	EA	45626	81-15 7 1/2IN W 6 1/2IN I.D. REPLACEMENT EVAPORATOR SLEEVE FOR MODEL 81	—	—	—
800	40	PKG	44941	880 5PK EVAPORATOR PLATES	—	—	—
709, -L, -LH; 1137; 1042, -L, -LH; 1042-R; 1040, -L	6	EA	45670	990-13 REPLACEMENT EVAPORATOR PAD FOR MODEL 1137	—	—	—
1099, -L, LH	6	EA	45635	1099-20 REPLACEMENT EVAPORATOR PAD FOR 1099LHS & 1099LH	—	—	—
570	10	EA	45672	GA10 REPLACEMENT EVAPORATOR PAD FOR 570M 570A	—	—	—
900, 1000	10	EA	45658	GA19 REPLACEMENT EVAPORATOR PAD 900A 1000A 900M 1000M	—	—	—
950	10	EA	45659	GA23 REPLACEMENT EVAPORATOR PAD FOR MODEL 950 & 1099LHS	—	—	—

**Humidifier Parts**

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
DS15	1	EA	45617	15-14 REPLACEMENT STEAM CYLINDER FOR DS15/RS15	—
DS15, DS35	1	EA	45619	20-1 STEAM NOZZLE FOR DS15/RS15 & DS35/RS35	—
DS35	1	EA	45618	35-14 REPLACEMENT STEAM CYLINDER FOR DS35/RS25	—
81	1	EA	45685	81-4 WATER PAN	—
65; 81	1	EA	45690	81-21 FLOAT VALVE ASSEMBLY	—
81	1	EA	45691	81-22 DRUM ASSEMBLY	—
40; 45; 65; 81; 709-R; 1042-R; 1040-R; 1099-R	1	EA	45636	727-58 24V (12VA) TRANSFORMER	—
65	1	EA	45637	727-40 MOTOR ASSEMBLY	—
1000	1	EA	45720	900-9 NOZZLE	—
1000	1	EA	45719	900-10 SPOUT	—
1000	1	EA	45723	900-15 DISTRIBUTOR TROUGH	—
709, -L, -LH; 1099, -L, -LH; 1137-R; 1040, -L; 1042, -L, -LH	1	EA	45652	975-33 PUMP MOTOR	—
709, -L, -LH; 1040, -L	200	FT	45671	990-31 DRAIN TUBE	—
709, -L, -LH; 1099, -L, -LH; 1137; 1040, -L; 1042, -L, -LH	1	EA	45655	990-37-75 ORIFICE & STRAINER ASSEMBLY	—
709, 1042, 1040	1	EA	45674	990-52 115V SOLENOID VALVE FOR 1042	—
709, -L, -LH; 1042, -L, -LH; 1040, -L, -LH	1	EA	45675	990-53 24V SOLENOID VALVE FOR 1042LH	—
1099	1	EA	45716	1099-42 24V SOLENOID VALVE ASSEMBLY	—
1137; 1042, -L, -LH, -R	1	EA	45710	1137-3 DRAIN PAN	—
1137	1	EA	45714	1137-17 SOLENOID VALVE ASSEMBLY	—
1137, 1137R	1	EA	45682	1137-8 FAN MOTOR	—
DS35, DS15	1	EA	45624	DMNKIT DUCT MOUNT KIT INCLUDES INCL 8FT HOSE FOR DS35/DS15	—
DS25, DS15P	1	EA	45678	E1 24V WALL/DUCT MOUNT TEMP COMPENSATING HUMIDISTAT	—
DS25LC, DS15P	1	EA	45614	EDMK4 7675 ECONOMY DUCT MOUNT KIT FOR DS25LC AND DS15P	—
900	1	EA	45724	GA4040 24V SOLENOID VALVE	—
1000	1	EA	45718	GA4045 24V SOLENOID VALVE W/HARNESS	—
500, 550, 570, 600, 900, 1000	12	EA	45721	GA4231 YELLOW ORIFICE	—
1137	1	EA	45717	GA4238 RELAY CIRCUIT BOARD	—
	1	EA	45745	GFX3 24V WALL/ DUCT MOUNT AUTO DIGITAL TEMP COMPENSATING HUMIDISTAT	—
709, -L, -LH; 1099, -L, -LH; 1137; 1042, -L, -LH	1	EA	45654	P103-104-111 CONNECTOR FITTINGS	—

*Humid-a-Mist* **HUM-100 Pulse Humidifier**



For use in forced air, gas, electric, or heat pump units. The Humid-a-Mist is designed to maintain a broad range of humidity levels in a residential or commercial space by means of a by-pass pulse board, a misting nozzle, water solenoid valve, and a water filter cartridge.

- Unit Size: 5-1/2" W x 4-1/4" H x 1-1/2" D.
- Water Supply: 1/4" plastic tubing supplied.
- Electrical: 24V control, 120V fan switch 60Hz, .24 amp draw.
- Humidistat: Wall or duct mounted with by-pass mode works with or without heat.
- Capacity (determined by pulse settings):  
Min: 1.4 GPD using 1 nozzle  
Max: 14.7 using 1 nozzle
- During installation of solenoid finger tighten only. Do not use wrench.

For Use with the Following	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
	1	EA	41530	HUM-100 HUMID-A-MIST PULSE HUMIDIFIER	—
HUM-100	1	EA	41531	HUM-100-P CONTROL BOARD	—
HUM-100, HYDRO-120	5	EA	41535	NK-101 NOZZLE KIT	—
HUM-100	5	EA	41529	NZ-008 1/2 GALLON NOZZLE	—
HUM-100, HYDRO-120	5	EA	41534	NZ-012 1 GALLON NOZZLE	—
HUM-100, HYDRO-120	1	EA	41532	S-24 SOLENOID	—
HUM-100, HYDRO-120	5	EA	41533	W-500 WATER FILTER	—

**TRION<sup>®</sup> Parts for Flow-Through Humidifiers**

For Use with the Following	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
G100, G200	1	EA	41551	G-105 DISTRIBUTION TRAY	—
G100	6	EA	41544	G-116-6 EVAPORATOR PADS	—
G100	1	EA	41546	G-122 POWER CONTROL BOARD	—
G100, G200	12	EA	41553	G-125 FILTER	—
G100, G200	1	EA	41549	G-139 12VA TRANSFORMER	—
G100	1	EA	41552	G-149 BRASS SOLENOID ASSY	—
G100	1	EA	41550	G-155 353226-001 DRAIN TRAY ASSEMBLY	—
G200	6	EA	41554	G-206-6 EVAPORATOR PADS	—
G200	12	EA	41557	G-217 .018IN FLUID RESTRICTORS	—

## GENERALAire MAC Series Media Air Cleaners



The MAC series is designed to meet today's high capacity filtration requirements to fight dust mites, mold spores, pollen and dust particulates that aggravate indoor air conditions. The Opti-Fiber Cartridge Media is easy to replace by simply removing the door and sliding out the old Cartridge Media and sliding in the new one. The media delivers a high initial efficiency, the spun bonded fibers are free of any chemical binders and is hydrophobic and resists shredding.

Model No.	Rated Air Flow (cfm)	Min. Average Efficiency	Media Size H x W x D (In.)	Shipping Weight (Lbs.)
MAC1200	1200	53.1%	16 x 22-1/4 x 3	11
MAC1400	1400	61.8%	16 x 22-1/4 x 5	13
MAC2000	2000	61.8%	20 x 24-1/4 x 5	14
MAC2020	1400	61.8%	20 x 20-3/4 x 5	14
MAC-L	2000	61.8%	20 x 24-1/4 x 5	32

### Media Air Cleaners

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	EA	40008	MAC1200 16X25 MERV8 MEDIA AIR CLEANER	—	—	—
1	EA	40006	MAC1400 16X25 MERV10 MEDIA AIR CLEANER	—	—	—
1	EA	40004	MAC2000 20X25 MERV10 MEDIA AIR CLEANER	—	—	—
1	EA	40005	MAC2020 20X20 MERV10 MEDIA AIR CLEANER	—	—	—
1	EA	40007	MAC-L MERV10 RIGHT ANGLE MEDIA AIR CLEANER	—	—	—

### Replacement Media

Used On	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
MAC1200	10	EA	40031	3FM1625 MERV8 16X25X3 REPLACEMENT MEDIA FOR MAC1200	—
MAC1400	6	EA	40029	5FM1625 MERV10 16X25X5 REPLACEMENT MEDIA	—
MAC2020	6	EA	40028	5FM2020 MERV10 20X20X5 REPLACEMENT REPLACEMENT MEDIA	—
MAC2000	6	EA	40030	5FM2025 MERV10 20X25X5 REPLACEMENT REPLACEMENT MEDIA	—

## GENERALAire GA50 Series High Efficiency Electronic Air Cleaners



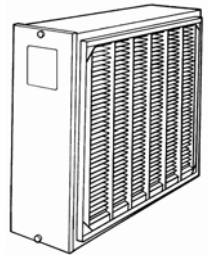
The GeneralAire High Efficiency Electronic Air Cleaner removes airborne pollutants as small as 0.01 micron. The air cleaner is environmentally friendly with its lifetime filter system that never needs replacing.

- Carbon filters that remove gaseous odors
- Dual indicator lights show unit operation at a glance
- Electronic air proving switch cycles air cleaner on/off with system fan

Model No.	Rated Air Flow (cfm)	Initial Efficiency (Microns)			Rated Voltage	Duct Opening (H x W)	Dimensions (W x D x H)	Shipping Weight (Lbs.)
		0.3 to 1.0	1.0 to 3.0	3.0 to 10.0				
GA50A14	1400	76.5%	94.0%	99.2%	120V-1PH/60Hz	13-9/16 x 24-1/8	7-1/2 x 25-13/16 x 19-13/16	37
GA50A20	2000	74.2%	91.0%	96.2%		18 x 23-5/16	7-1/2 x 25-13/16 x 25-11/16	41
GA52F32	1400	71.4%	90.0%	97.5%		29-1/8 x 22	7 x 31-7/16 x 24-3/8	38

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
1	EA	40001	GA50A14 1400CFM 120V 16X25X7 CHROMIUM CHROMIUM EAC	—	—	—
1	EA	40002	GA50A20 2000CFM 120V 20X25X7 CHROMIUM CHROMIUM EAC	—	—	—
1	EA	40003	GA52F32 120V 2000CFM GRILLE GRILLE MOUNT EAC	—	—	—

**GENERALAire** Replacement Media  
For AC1 Air Cleaner



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
9	EA	45701	12758 MERV 11 MICRO FIBER EXPANDABLE AIR CLEANER MEDIA 4001	—

**Aprilaire® 1000 Media Air Cleaners**



- Unit operation is completely silent
- Outer housing is heavy gauge, preassembled galvanized steel
- Self-aligning painted door easily snaps into place every time
- Cabinet and media are UL classified

Model No.	Outside Dimensions D x H x W (In.)	Duct Opening H x W (In.)	Filtering Area (Sq. Ft.)	Resistance @ Airflow Volume (In. w.c. @ CFM)		Shipping Weight (Lbs.)
1210	25.38 x 22.06 x 6.75	19.75 x 21.19	31.4	.04 @ 600	.13 @ 1400	18
				.06 @ 800	.16 @ 1600	
				.08 @ 1000	.19 @ 1800	
				.11 @ 1200	.22 @ 2000	
1410	28.06 x 17.75 x 6.75	15.44 x 23.88	28.3	.05 @ 600	.15 @ 1400	17
				.07 @ 800	.19 @ 1600	
				.09 @ 1000	.22 @ 1800	
				.12 @ 1200	.27 @ 2000	

**Media Air Cleaners**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-10	PC-3 11-24	PC-4 25
30	EA	41407	1210 MERV11 20X25 1000 SERIES MEDIA AIR CLEANER	—	—	—	—
20	EA	41408	1410 MERV11 16X25 1000 SERIES MEDIA AIR CLEANER	—	—	—	—
8	EA	41413	210 MERV11 20X25 REPLACEMENT MEDIA FOR 1210	—	—	—	—
8	EA	41414	410 MERV11 16X25 REPLACEMENT MEDIA FOR 1410	—	—	—	—

# Aprilaire® 2000 Media Air Cleaners



2210/2410



2250

### 2210 and 2410

Permanently traps and removes 93% of pollen-sized particles and 91% of mold and spore-sized particles.

### 2250

The grill mount unit is ideal for homes with a single return.

Model No.	Outside Dimensions D x H x W (In.)	Duct Opening H x W (In.)	Filtering Area (Sq. Ft.)	Capacity 600-1600 CFM Resistance (In.) W.C.	
2210	25.38 x 22.06 x 6.75	Discharge: 19.75 x 21.19 Inlet: 19.75 x 21.19	31.4	.06 @ 600 .09 @ 800 .12 @ 1000 .16 @ 1200	.20 @ 1400 .25 @ 1600 .30 @ 1800 .35 @ 2000
2410	28.06 x 17.75 x 6.75	Discharge: 15.44 x 23.88 Inlet: 15.44 x 23.88	28.3	.06 @ 600 .09 @ 800 .13 @ 1000 .17 @ 1200	.22 @ 1400 .26 @ 1600 .31 @ 1800 .37 @ 2000
2250	21.25 x 26.25 x 9.25	Duct Opening 20.25 x 25.25 Wall Opening 21.375 x 26.375	78.6	.05 @ 600 .07 @ 800 .10 @ 1000 .13 @ 1200	.16 @ 1400 .19 @ 1600 .23 @ 1800 .27 @ 2000

### Media Air Cleaners

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-10	PC-3 11-24	PC-4 25
1	EA	41302	2250 GRILLE MOUNT AIR CLEANER	—	—	—	—
30	EA	41328	2210 MEDIA AIR CLEANER	—	—	—	—
20	EA	41329	2410 MEDIA AIR CLEANER	—	—	—	—
30	EA	41409	2210 MERV13 20X25 2000 SERIES MEDIA AIR CLEANER	—	—	—	—
20	EA	41410	2410 MERV13 16X25 2000 SERIES MEDIA AIR CLEANER	—	—	—	—

### Accessories

Used on the Following Models	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
2200, 2250	10	EA	41305	201 AIR CLEANER MEDIA 2200 2250	—
2600	10	EA	41306	261 AIR CLEANER MEDIA 2600	—
2400	10	EA	41307	401 AIR CLEANER MEDIA 2400	—
2200, 2250, 2600	5	EA	41311	4119/4120 PLEAT SPACER	—
2200, 2250	1	EA	41312	4121 HOLDING BRACKET	—
2400	6	EA	41313	4270 PLEAT SPACERS	—
2275	10	EA	41325	275 SPACE-GARD FILTER	—
2200	6	EA	41326	1213 2200 UPGRADE KIT FOR MEDIA AIR CLEANER	—
2400	6	EA	41327	1413 2400 UPGRADE KIT FOR MEDIA AIR CLEANER	—
2400	1	EA	41732	4347 2400 DOOR WITH SEAL	—
2200	1	EA	70014	4344 2200 DOOR WITH SEAL	—
2120	5	EA	70024	102 2120 MEDIA REPLACEMENT FILTER	—
2200	12	EA	78095	POPUP2200/U RP 2200 MEDIA REPLACEMENT FILTER	—
2400	12	EA	78096	POPUP2400/U RP 2400 MEDIA REPLACEMENT FILTER	—
2200	6	EA	41318	4893 FRAME ONLY FOR 1213	—
2200	20	EA	41319	4895 FOAM INSERT ONLY FOR 1213	—
2400	6	EA	41322	4894 FRAME ONLY FOR 1413	—
2400	20	EA	41323	4896 FOAM INSERT ONLY FOR 1413	—



# Aprilaire® 3000 Media Air Cleaners



- Unit operation is completely silent
- Outer housing is heavy gauge, preassembled galvanized steel, with an electrostatic painted finish
- Self-aligning door easily snaps into place every time
- Cabinet and media are UL classified

Model No.	Outside Dimensions D x H x W (In.)	Duct Opening H x W (In.)	Filtering Area (Sq. Ft.)	Resistance @ Airflow Volume (In. w.c. @ CFM)		Shipping Weight (Lbs.)
3210	25.38 x 22.06 x 6.75	19.75 x 21.19	31.4	.06 @ 600	.20 @ 1400	18.6
				.09 @ 800	.25 @ 1600	
				.12 @ 1000	.30 @ 1800	
				.16 @ 1200	.35 @ 2000	
3410	28.06 x 17.75 x 6.75	15.44 x 23.88	28.8	.06 @ 600	.22 @ 1400	17.6
				.09 @ 800	.26 @ 1600	
				.13 @ 1000	.31 @ 1800	
				.17 @ 1200	.37 @ 2000	

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-10	PC-3 11-24	PC-4 25
30	EA	41411	3210 MERV13 20X25 3000 SERIES MEDIA AIR CLEANER	—	—	—	—
20	EA	41412	3410 MERV13 16X25 3000 SERIES MEDIA AIR CLEANER	—	—	—	—

# Aprilaire® 4000 Media Air Cleaners



4200

4400

- Collapsible media with automatic pleat spacing installs in seconds.
- Narrower 6.75" cabinet for easier installations and more flexible applications.
- SelfSeal™ dramatically reduces air bypass, improving filtering performance.
- Self-aligning door easily snaps into place every time.

Model No.	Outside Dimensions D x H x W (In.)	Duct Opening H x W (In.)	Filtering Area (Sq. Ft.)	Resistance @ Airflow Volume (In. w.c. @ CFM)		Shipping Weight (Lbs.)
4200	27-3/8 x 22-1/16 x 6-3/4	19.75 x 21.19	.09 @ 800 .12 @ 1000 .16 @ 1200	.20 @ 1400	18.5	18.6
				.25 @ 1600		
				.30 @ 1800		
				.35 @ 2000		
4400	30-1/16 x 17-3/4 x 6-3/4	15.44 x 23.88	.09 @ 800 .13 @ 1000 .17 @ 1200	.22 @ 1400	17.6	17.6
				.26 @ 1600		
				.31 @ 1800		
				.37 @ 1800		

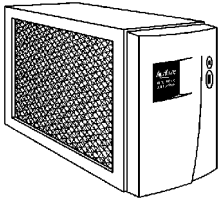
## Media Air Cleaners

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-10	PC-3 11-24	PC-4 25
30	EA	41309	4200 MEDIA AIR CLEANER	—	—	—	—
20	EA	41310	4400 MEDIA AIR CLEANER	—	—	—	—

## Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
8	EA	41316	213 MERV13 MEDIA REPLACEMENT FILTER FOR 4200 & 2210	—
8	EA	41317	413 MERV13 MEDIA REPLACEMENT FILTER FOR 4400 & 2410	—

## Aprilaire® 5000 Electronic Air Cleaner



The patented technology "Electrically Enhanced Air Filtration" provides increased performance by positively charging airborne particles and capturing them on "grounded micro fiber media."

- Removes in excess of 90% of tiny airborne bacteria, as small as 0.30 micron.
- Reduces by 5 times the number of microscopic particles (0.35 micron) that cause allergies, respiratory problems and smudging on home furnishings that pass through a typical plate type air cleaner.
- Removes 86% of smoke particulate.
- Removes in excess of 99% of fungus, mold spores, pollens, and plant spores that can cause allergy problems.
- Fits easily to 24" return drop.

### Dimensions

- Unit without door assembly/power pack:  
17-3/4" x 28-1/8" x 11-1/2"
- Unit with door assembly/power pack:  
17-3/4" x 31-1/8" x 11-1/2"
- Inlet opening: 14-3/4" x 23-7/8"
- Outlet opening: 14-3/4" x 24-7/8"

### Power Requirements

- 120 VAC 60Hz, unit equipped with 5 ft. grounded cord with plug

### Current

- 0.3 Amps maximum

### Resistance @ Airflow Volume (inches w.c. @ CFM)

- .10" @ 1000
- .14" @ 1200
- .17" @ 1400
- .21" @ 1600
- .25" @ 1800
- .29" @ 2000

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	41304	5000 WHOLE HOME APRILAIRE ELECT AIR CLEANER	—
1	EA	41308	501 5000 APRILAIRE 5000 EAC MEDIA	—

### Accessories

1	EA	41793	4310 5000 POWER PACK/DOOR ASSBLY	—
1	EA	41794	4311 5000 CONTROL ELECTRODE	—
2	PKG	41796	4313 5000 MEDIA GROUND CONTACT	—
3	EA	41798	4315 5000 IONIZER WIRE	—
1	EA	41792	4598 5000 IONIZER FRAME ASSBLY	—

# TRION<sup>®</sup> Electronic Air Cleaner Parts

## Duct Mount

### Parts for SE 1400

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	63225	123324-005 16IN X 12 5/16IN PRE-FILTER (2 REQD)	—
1	EA	63316	220110-020 ION WIRE ASSY	—
1	EA	63228	227833-003 16IN X 12IN CHARCOAL FILTER (2 REQD)	—
1	EA	63318	248090-001 ELEC AIR FLOW SENSOR	—
1	EA	63309	348818-001A POWER SUPPLY ASSY W/AFS	—
1	EA	63325	447960-001 ION COLLECTING CELL	—

### Parts for HE 1400

1	EA	63225	123324-005 16IN X 12 5/16IN PRE-FILTER (2 REQD)	—
1	EA	63211	144501-001 ELECT AIRFLOW SENSOR KIT	—
1	EA	63316	220110-020 ION WIRE ASSY	—
1	EA	63318	248090-001 ELEC AIR FLOW SENSOR	—
1	EA	63228	227833-003 16IN X 12IN CHARCOAL FILTER (2 REQD)	—
1	EA	63309	348818-001A POWER SUPPLY ASSY W/AFS	—

### Parts for HE 2000

1	EA	63232	123324-004 20IN X 12 5/16IN PRE-FILTER	—
1	EA	63241	220110-029 ION WIRE ASSY	—
1	EA	63231	227833-004 20IN X 12IN CHARCOAL FILTER (2 REQD)	—
1	EA	63318	248090-001 ELEC AIR FLOW SENSOR	—
1	EA	63309	348818-001A POWER SUPPLY ASSY W/AFS	—
1	EA	63214	441729-101C COLLECTING CELL	—

### Parts for IAQ 1400

1	EA	63225	123324-005 16IN X 12 5/16IN PRE-FILTER (2 REQD)	—
1	EA	63219	134516-006 OUTPUT VOLT LED ASSY	—
1	EA	63220	144501-004 AIR FLOW SENSOR KIT	—
1	EA	63240	220111-020 ION WIRE ASSY	—
1	EA	63228	227833-003 16IN X 12IN CHARCOAL FILTER (2 REQD)	—
1	EA	63304	341677-601B 1400/2000 POWER SUPPLY	—

### Parts for IAQ 2000

1	EA	63232	123324-004 20IN X 12 5/16IN PRE-FILTER	—
1	EA	63219	134516-006 OUTPUT VOLT LED ASSY	—
1	EA	63220	144501-004 AIR FLOW SENSOR KIT	—
1	EA	63241	220110-029 ION WIRE ASSY	—
1	EA	63231	227833-004 20IN X 12IN CHARCOAL FILTER (2 REQD)	—
1	EA	63304	341677-601B 1400/2000 POWER SUPPLY	—
1	EA	63323	441729-104 ION COLLECTING CELL	—

### Parts for Trim TX

1	EA	63223	123324-008 16IN X 25IN PRE-FILTER	—
1	EA	63219	134516-006 OUTPUT VOLT LED ASSY	—
1	EA	63211	144501-001 ELECT AIRFLOW SENSOR KIT	—
1	EA	63272	220111-021 ION WIRE ASSY	—
1	EA	63228	227833-003 16IN X 12IN CHARCOAL FILTER (2 REQD)	—
1	EA	63304	341677-601B 1400/2000 POWER SUPPLY	—

### Parts for Max 5 1400

1	EA	63225	123324-005 16IN X 12 5/16IN PRE-FILTER (2 REQD)	—
1	EA	63219	134516-006 OUTPUT VOLT LED ASSY	—
1	EA	63211	144501-001 ELECT AIRFLOW SENSOR KIT	—
1	EA	63240	220111-020 ION WIRE ASSY	—
1	EA	63228	227833-003 16IN X 12IN CHARCOAL FILTER (2 REQD)	—
1	EA	63304	341677-601B 1400/2000 POWER SUPPLY	—

### Parts for Max 5 2000

1	EA	63232	123324-004 20IN X 12 5/16IN PRE-FILTER	—
1	EA	63219	134516-006 OUTPUT VOLT LED ASSY	—
1	EA	63211	144501-001 ELECT AIRFLOW SENSOR KIT	—
1	EA	63241	220110-029 ION WIRE ASSY	—
1	EA	63231	227833-004 20IN X 12IN CHARCOAL FILTER (2 REQD)	—
1	EA	63304	341677-601B 1400/2000 POWER SUPPLY	—
1	EA	63214	441729-101C COLLECTING CELL	—

### Parts for the TGM2 1000 and 2000

1	EA	63232	123324-004 20IN X 12 5/16IN PRE-FILTER	—
1	EA	63304	341677-601B 1400/2000 POWER SUPPLY	—
1	EA	63214	441729-101C COLLECTING CELL	—



## Residential Air Cleaner Filters

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	41090	2400.32RM SG/ APRILAIRE MEDIA CART 2200	—
6	EA	63284	2400.2101 INDIGO M8 RAC 16X25X3 AB	—
3	EA	63335	2400.2105 INDIGO M8 RAC 16X25X5 AB	—
4	EA	63336	2400.2103 INDIGO M8 RAC 20X20X5 AB	—
3	EA	63283	2400.2102 INDIGO M8 RAC 20X25X5 AB	—

## TRION® Electronic Air Cleaner Parts

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	63266	422167-004 COLLECTING CELL	—
1	EA	63272	220111-021 ION WIRE ASSY	—

## TRION® Parts for CAC-1000 Space Saver

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	63291	132309-001 15.81IN X 15.81IN CHARCOAL FILTER	—
1	EA	63297	135384-001 REMOTE CONTROL	—
1	EA	63240	220111-020 ION WIRE ASSY	—
1	EA	63234	220978-005 CONTACT BOARD ASSY	—
1	EA	63292	243155-001 3 SPD 1/15 HP MOTOR	—
1	EA	63285	347155-102 POWER SUPPLY	—
1	EA	63288	438719-002 COLLECTOR CELL	—

# Honeywell Parts for F50F Electronic Air Cleaner

## W8600 Solid State Performance Indicator

The W8600 provides remote performance indication for F50 and F52E Electronic Air Cleaners. On light indicates EAC is on, Wash indicates cell washing is overdue, Check indicates service or adjustment is needed. Mounts on wall.

### W8600 Series Remote Indicators

Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
Any Air Cleaner	20	EA	78144	W8600A 1007 REMOTE INDICATOR	—
Series 2 F50F*, F300	20	EA	74854	W8600F 1014 REMOTE INDICATOR WHITE	—

\* The series can be identified on the inside of the cabinet door of the air cleaner. For example: F50F 1073 2.

### Air Cleaner Parts

Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
F50, F300	1	EA	74564	123773A SAIL ASSEMBLY	—
F50, F300	5	EA	74902	136434AA/U 20IN IONIZING WIRE	—
F50, F300	5	EA	74901	136434BA 16IN IONIZING WIRE	—
F50, F300	2	EA	74898	137266 CELL HANDLE	—
F50, F300	2	EA	74899	199840 INDICATOR LIGHT	—
F50F, F300	1	PKG	74924	203371/U 16X12.5 PREFILTERS FOR 16 X 25	—
F50F, F300	1	PKG	74925	203372/U 20X12.5 PREFILTERS FOR 20 X 25	—
F50F, F300	1	PKG	74926	203373/U 20X10 PREFILTERS FOR 20 X 20	—
F50	1	EA	74900	4074EHG CELL CONTACT BOARD	—
F50F, F300	2	EA	74934	4074ETH AIR FLOW SWITCH	—
F50, F300	2	EA	74890	FC37A1064/U 20X12.5 CELL FOR 74859	—
F50, F300	2	EA	74891	FC37A1130/U 16X12.5 CELL FOR 74858	—
All	12	EA	72714	S688A1007/U AIRFLOW SWITCH	—

### Power Boards

Use With	Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
F50F 1032, 1040, 1057, 1065, 1073	c	2	EA	74844	208045G/U POWR BOARD F/SERIES 2 F50/F300	—
F50F 1149	c	2	EA	74843	208045J POWR BOARD F/SERIES 2 F50/F300	—
F50F1040, 1057		2	EA	74845	208414C POWER BOARD	—
F50F 1032		2	EA	74952	208414B POWER BOARD	—
F50F 1065, 1073		2	EA	74957	208417Q POWER BOX ASSY	—
F50A 1009, 1017, 1124; F50E 1000, 1018, 1083	a, b	1	EA	74953	208420A POWER BOX ASSY	—
F50A 1009, 1017, 1124; F50E 1000, 1018, 1083	a, b	1	EA	74954	208425A POWER BOARD	—

a Ionizer current output selected by moving J6 jumper on power supply circuit board.

b Requires boot modification. (Drill hole to accommodate air flow switch.)

c For Series 2 Air Cleaners.

## Honeywell F52F Return Grille Electronic Air Cleaner



The F52F Return Grille Electronic Air Cleaner is wall or ceiling mounted in the main return air duct of a central forced air heating, cooling, or ventilation system. It removes airborne particles such as dust, soot, pollen, tobacco, and cooking smoke from the air circulated through the cells.

Solid state power supply is energized by an airflow switch; no interconnection to fan system is required. Solid state power supply is self-regulating and maintains peak efficiency during a wide range of cell dirt-loading conditions.

Features include a pre-filter, neon light that shows the air cleaner is operating, automatic interlock switch that disconnects the power when unit is opened, electronic cell(s) that can be washed in most automatic dishwashers, and vertical or horizontal mounting

Optional W8600E Solid State Performance Indicator monitors air cleaner performance, informs owner when cell washing is overdue, and indicates need for system check.

Model No.	Airflow Cap. (CFM)	System Size (In.)	No. Cells	Maximum Current		Installed Weight
				120V 60 Hz.	220/240V 50/60 Hz.	
F52F 1048	1000	20 x 12.5	1	0.4	0.2	29.4
F52F 1055	2000	20 x 25	2	0.4	0.2	45.3

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	74876	F52F 1048 20 X 12.5 RETURN GRILLE EAC	—
1	EA	74877	F52F1055/U 20 X 25 RETURN GRILLE EAC	—

## Honeywell FC40R Return Grille Media Air Filter



Provides high efficiency, long life alternative to one inch filter. It captures a significant amount of the airbourne particles in the air that circulates through the filter.

Mounts in most return filter grilles. Pleated for greater media capacity. Low pressure drop provides a comfortable air flow. Maintains equipment efficiency longer than standard filters.

**Efficiency Standard:** Efficiency ratings are based on American Society of Heating, Refrigerating and Air-Conditioning Engineers Standard 52.2-1999. Efficiency ranges are defined for small particles, E1=0.3 to 1.0 microns; medium particles, E2=1.0 to 3.0 microns; and large particles, E3=3.0 to 10.0 microns.

**Fractional Efficiency:** E1=22%, E2=53%, E3=78%

**Minimum Efficiency Reporting Value:** MERV 10

Max. Airflow Capacity	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
800	5	EA	78199	FC40R 1037 12 X 24 RETURN GRILLE FILTER	—
750	5	EA	78159	FC40R 1110 14 X 20 RETURN GRILLE FILTER	—
950	5	EA	78203	FC40R 1128 14 X 24 RETURN GRILLE FILTER	—
1000	5	EA	78201	FC40R1045/U 14 X 25 RETURN GRILLE FILTER	—
1200	5	EA	78204	FC40R 1169 14 X 30 RETURN GRILLE FILTER	—
900	5	EA	78160	FC40R 1052 16 X 20 RETURN GRILLE FILTER	—
1150	5	EA	78202	FC40R 1060 16 X 25 RETURN GRILLE FILTER	—
1250	5	EA	78078	FC40R 1136 18X24 RETURN GRILLE FILTER	—
1150	5	EA	78161	FC40R1003/U 20 X 20 RETURN GRILLE FILTER	—
1450	5	EA	78197	FC40R1011/U 20 X 25 RETURN GRILLE FILTER	—
1800	5	EA	78200	FC40R1029/U 20 X 30 RETURN GRILLE FILTER	—
1700	5	EA	78198	FC40R 1078 24 X 24 RETURN GRILLE FILTER	—

# Honeywell F100F Media Air Cleaner



- High efficiency media filter captures particles as small as 0.3 micron.
  - Applicable to all gas, oil, and electric forced warm air furnaces and to compressor cooling up to 5 tons.
  - Mounts in the return air duct.
  - Mounts in any position.
  - Later upgrade to higher performing Honeywell media or electronic air cleaner is easy.
  - Includes W8600A AIRWATCH™ Indicator (except for F100F 2002 and F100F 2010).
- Efficiency Ratings:** Based on American Society of Heating, Refrigerating and Air-Conditioning Engineers Standard 52.2-1999.
- Initial Efficiency:** 15% (0.3 micron particles).
- Minimum Efficiency Reporting Valve (MERV):** 8 at 492 fpm.
- Initial Pressure Drop:** 0.177 in. wc at 492 fpm.

Model No.	Rated Airflow	Dimensions (H x D x W)	Media Size (H x D x W)
F100F 1004/2028	1200	16-3/16 x 20-1/2 x 6-3/4	14-7/16 x 18-1/4 x 5-1/8
F100F 2002	1400	16-3/16 x 25-1/2 x 6-3/4	14-7/16 x 23-1/4 x 5-1/8
F100F 1020/2036	1400	20-3/16 x 20-1/2 x 6-3/4	18-7/16 x 18-1/4 x 5-1/8
F100F 1038/2010	2000	20-3/16 x 25-1/2 x 6-3/4	18-7/16 x 23-1/4 x 5-1/8

## F100F Media Air Cleaner

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	78101	F100F 2028 16X20 MEDIA AIR CLEANER	—
5	EA	78087	F100F2028/U 16X20 MEDIA AIR CLEANER	—
5	EA	78089	F100F2002/U 16X25 MEDIA AIR CLEANER	—
1	EA	78102	F100F 2036 20X20 MEDIA AIR CLEANER	—
5	EA	78088	F100F2036/U 20X20 MEDIA AIR CLEANER	—
1	EA	78103	F100F 1038 20X25 MEDIA AIR CLEANER W/W8600A	—
5	EA	78090	F100F2010/U 20X25 MEDIA AIR CLEANER	—

## Replacement Filters MERV 8

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
5	EA	78105	FC100A1003/U 16X20 FILTER FOR F100F/F150E	—	—
5	EA	78104	FC100A1029/U 16X25 FILTER FOR F100F/F150E	—	—
5	EA	78099	FC100A1052/U 20X12.5 FILTER	—	—
5	EA	78106	FC100A1011/U 20X20 FILTER FOR F100F/F150E	—	—
5	EA	78107	FC100A1037/U 20X25 FILTER FOR F100F/F150E	—	—
5	EA	78077	FC100A 1045 21 1/2 X 27 1/2 FILTER FOR F100F/F150E	—	—

## Replacement Filters MERV 11

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	78094	POPUP1620 16 X 20 MEDIA REPLACEMENT FILTER	—	—
12	EA	78093	POPUP1625/U 16 X 25 MEDIA REPLACEMENT FILTER	—	—
12	EA	78092	POPUP2020 20 X 20 MEDIA REPLACEMENT FILTER	—	—
12	EA	78091	POPUP2025/U 20 X 25 MEDIA REPLACEMENT FILTER	—	—

# Honeywell TrueCLEAN™ Enhanced Whole-House Air Cleaners



TrueCLEAN™ Enhanced Air Cleaners use an advanced 3-step filtration technology to deliver cleaner air by taking a high-airflow media filter and enhancing it with electronic technology.

The three-step process that TrueCLEAN™ uses to capture and deactivate up to 99%\*\* of airborne particles and contaminants passing through the system is Charge, Capture, Destroy.

**Step 1 Charge:** Particles enter the TrueCLEAN system through an array of ionizing points, where they become electrically charged. The unique design charges all particles evenly.

**Step 2 Capture:** Next, particles travel into the media filter, where they're captured in the media fibers. A continuous charge ensures dirt is loaded 360 degrees around the filter fibers, not just the face of the filter. This process captures more particles than a standard media filter and helps the filter last longer.

**Step 3 Destroy:** Once particles are captured, the charging strips on opposite sides of the carbon-tipped media filter continue to charge and deactivate particles. Particles are trapped and destroyed inside the filter, with deactivation rates of captured particles exceeding 99%.

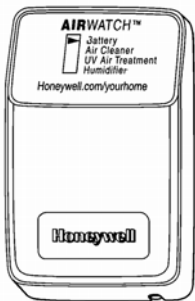
## TrueClean™ Air Cleaners

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	78080	FH8000F1625/U 16 X 25 TRUECLEAN MODEL AIR CLEANER	—
5	EA	78081	FH8000F2025/U 20X25 TRUECLEAN ENHANCED WHOLE HOUSE AIR CLEANER	—

## Replacement Filters MERV 15

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
5	EA	78084	FR8000A1620/U 16 X 20 TRUECLEAN MEDIA REPLACEMENT FILTER	—	—
5	EA	78082	FR8000F1625/U 16 X 25 TRUECLEAN MEDIA REPLACEMENT FILTER	—	—
5	EA	78085	FR8000A2020/U 20 X 20 TRUECLEAN MEDIA REPLACEMENT FILTER	—	—
5	EA	78083	FR8000F2025/U 20 X 25 TRUECLEAN MEDIA REPLACEMENT FILTER	—	—
5	EA	78086	FR8000A2520/U 25 X 20 TRUECLEAN MEDIA REPLACEMENT FILTER	—	—

# Honeywell W8600A AirWatch™ Indicator



The W8600A function indicator panel has four liquid crystal display (LCD) arrowheads that point to battery, air cleaner, UV air treatment and humidifier. A blinking arrowhead indicates service is needed.

It is designed to blend with the latest T8600 family of Honeywell Chronotherm® IV thermostats. The W8600A can also be mounted at any other convenient location in the living area of the home.

Dimensions H x W x D	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
3-3/4 x 2-1/2 x 1-3/4	20	EA	78144	W8600A 1007 REMOTE INDICATOR	—





## F200E Charged-Media Air Cleaners



- Charged-media filter captures particles as small as 0.3 micron.
- Mounts in the return air duct.
- Requires no electrical connections.
- Mounts in any position.
- Later upgrade to a Honeywell electronic air cleaner is easy.
- Integral pressure sensors signal when filter change is required based on increase pressure drop threshold at filter.
- Filter change status is transmitted to wall-mounted AIRWATCH™ indicator.
- The RF AIRWATCH Indicator is included.

**Efficiency Ratings:** Based on American Society of Heating, Refrigerating and Air-Conditioning Engineers Standard 52.2-1999.

**Initial Efficiency:** 43% (0.3 micron particles); 76% (1.0 micron particles).

**Minimum Efficiency Reporting Valve (MERV):** 10 at 492 fpm.

**Initial Dust Spot Efficiency:** 61% (ASHRAE 52.1).

**Initial Pressure Drop:** 0.177 in. wc at 492 fpm.

Model No.	Rated Airflow	Dimensions H x D x W	Media Size H x D x W
F200E 1003	1200	16-3/16 x 20-1/2 x 6-3/4	14-7/16 x 18-1/4 x 5-1/8
F200E 1011	1400	20-3/16 x 20-1/2 x 6-3/4	18-7/16 x 18-1/4 x 5-1/8
F200E 1029	1400	16-3/16 x 25-1/2 x 6-3/4	14-7/16 x 23-1/4 x 5-1/8
F200E 1037	2000	20-3/16 x 25-1/2 x 6-3/4	18-7/16 x 23-1/4 x 5-1/8

### F200E Charged-Media Air Cleaners

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	78109	F200E 1003 16X20 MEDIA CLEANER W/RF INDICATOR	—
1	EA	78108	F200E1029/U 16X25 MEDIA CLEANER W/RF INDICATOR	—
1	EA	78110	F200E 1011 20X20 MEDIA CLEANER W/RF INDICATOR	—
1	EA	78111	F200E1037/U 20X25 MEDIA CLEANER W/RF INDICATOR	—

### Replacement Filters MERV 10

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
5	EA	78113	FC200E1003/U 16X20 FILTER FOR F200E 1003	—	—
5	EA	78112	FC200E1029/U 16X25 FILTER FOR F200E 1029	—	—
5	EA	78114	FC200E1011/U 20X20 FILTER FOR F200E 1011	—	—
5	EA	78115	FC200E1037/U 20X25 FILTER FOR F200E 1037	—	—

### Replacement Filters MERV 11

12	EA	78094	POPUP1620 16 X 20 MEDIA REPLACEMENT FILTER	—	—
12	EA	78093	POPUP1625/U 16 X 25 MEDIA REPLACEMENT FILTER	—	—
12	EA	78092	POPUP2020 20 X 20 MEDIA REPLACEMENT FILTER	—	—
12	EA	78091	POPUP2025/U 20 X 25 MEDIA REPLACEMENT FILTER	—	—

### Replacement Doors

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
2	EA	78116	32004876-001 16IN DOOR W/AIR WATCH SWITCH	—
2	EA	78117	32004876-002 20IN DOOR W/AIR WATCH SWITCH	—



## F300E Electronic Air Cleaners



The F300E electronic air cleaner is mounted in the return air duct of a forced air heating, cooling, or ventilating system. It captures a significant amount of the airborne particles 0.3 microns and larger from the air circulated through it.

- Solid state power supply is self-regulating and maintains peak efficiency during a wide range of cell dirt loading conditions.
- Pressure drop is approximately equal to that of a regular fiberglass filter.
- Optional wireless W8600A AIRWATCH™ LCD indicator provides reminder when air cleaner electronic cells need washing, as well as reminder when UV lamps need replacing, and when humidifier pad needs replacing.
- Neon light next to on-off switch tells if air cleaner is powered and if high voltage is present.
- Prefilter screens protect cells from large dirt particles.
- U.L. Listed

### Electrical Ratings

- Voltage and Frequency: 120V, 60 Hz. Can be converted in the field to 240V.
- Power Consumption: 36W maximum.
- Ionizer Voltage: 8150 Vdc.
- Collector Voltage: 4075 Vdc.

### Efficiency

- 70% on 0.3 micron particles at 500 fpm.
- 90% on 1.0 micron particles at 500 fpm.
- 99% on 10.0 micron particles at 500 fpm.

### Electronic Air Cleaners

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-2	PC-2 3-5	PC-3 6
1	EA	78119	F300E1001/U 16X20 1200CFM EAC	—	—	—
1	EA	78118	F300E1019/U 16X25 1400CFM EAC	—	—	—
1	EA	78120	F300E 1027 20X20 1400CFM EAC	—	—	—
1	EA	78121	F300E1035/U 20X25 2000CFM EAC	—	—	—

### Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	74878	208418J 16 X 20 POWER BOX ASSY FOR F300E	—
1	EA	74879	208417S/U 16 X 25 POWER BOX ASSY FOR F300E	—
1	EA	74880	208418H 20 X 20 POWER BOX ASSY FOR F300E	—
1	EA	74881	208417R/U 20 X 25 POWER BOX ASSY FOR F300E	—
2	EA	74888	4074EZB AIR SWITCH	—
1	PKG	78162	50000293-001 16X20 POST FILTER (2/PKG) F/F300	—
1	PKG	78163	50000293-002/U 16X25 POST FILTER (2/PKG) F/F300	—
1	PKG	78164	50000293-003 20X20 POST FILTER (2/PKG) F/F300	—
1	PKG	78165	50000293-004/U 20X25 POST FILTER (2/PKG) F/F300	—

## White SST Series Electronic Air Cleaner Parts

White-Rodgers Electronic Air Cleaners filter up to 98% of bacteria, pollen, dust, animal dander, viruses, and cooking and tobacco smoke. Comparably, Media Air Cleaners are only 55% efficient and standard air filters are only 2% to 5% efficient at filtering larger particles such as pollen and spores. Our newly expanded line of Electronic Air Cleaners include models to fit virtually any size home. All models are designed for energy efficiency and have easy access for service and maintenance.

- New and improved high-efficiency design.
- Four sizes for different airflow requirements.
- Front power door provides easy access for quick servicing.
- Twin 5" collecting cells make cleaning easier.
- Nothing else to buy; no filters to replace.
- Saves energy dollars...uses less energy than a 40-watt bulb.

Model No.	CFM	Size (In.)	Cabinet Dimensions H x W x D (In.)	Recommended CFM Range	A/C Tonnage	BTU Input Range	Power Requirements	Wt. Lbs.
SST-1600	1600	20 x 20	20.6 x 21.3 x 6.9	1200-1800	Up to 4.5	Up to 180,000	120 VAC, 60 Hz	46

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77962	F811-0319 COLLECTING CELL F/SST2000 (2)	—
1	EA	77963	F811-0321 COLLECTING CELL F/SST1600 (2)	—
1	EA	77964	F811-0397 COLLECTING CELL F/SST1400 (2)	—
1	EA	77965	F811-0398 COLLECTING CELL F/SST1000 (2)	—
1	EA	77967	F825-0338 PRE-FILTER F/SST2000 (2)	—
1	EA	77968	F825-0431 PRE-FILTER F/SST1000 (2)	—
1	EA	77969	F825-0432 PRE-FILTER F/SST1400 (2)	—
1	EA	77970	F825-0466 CHARCOAL FILTER F/SST1000 (1)	—
1	EA	77971	F825-0467 CHARCOAL FILTER F/SST1400 (2)	—
1	EA	77972	F825-0468 CHARCOAL FILTER F/SST1600 (2)	—
1	EA	77973	F825-0469 CHARCOAL FILTER F/SST2000 (2)	—
1	EA	77978	F881-0240 240V CONVERSION KIT F/SST	—

## White ACM Series Premium Media Air Cleaners

### 4" Media Air Cleaner with Metal Cabinet



- Slim profile for easy installation and easy stocking
- Factory-punched screw and drill-access holes in cabinet for fast and simple installation
- Heavy-duty, 20-gauge galvanized steel cabinet construction
- Standard MERV 8 filters are up to 20 times more efficient at capturing allergens than ordinary fiberglass filters
- Snap-on, ABS plastic door for easy filter replacement without tools
- ACM cabinets ship with a MERV 8 media filter

Model No.	CFM	Size (In.)	Cabinet Dimensions H x W x D (In.)	Recommended CFM Range	A/C Tonnage	BTU Input Range	Power Requirements	Wt. (Lbs.)
ACM 1000M-108	1000	16 x 20	16.5 x 21.375 x 5.5	600-1200	3.0	120,000	None	14
ACM 1400M-108	1400	16 x 25	16.5 x 26.375 x 5.5	1000-1600	4.0	160,000	None	15.75
ACM 1600M-108	1600	20 x 20	20.625 x 21.375 x 5.5	1200-1800	4.5	180,000	None	15
ACM 2000M-108	2000	20 x 25	20.625 x 26.375 x 5.5	1600-2200	5.5	220,000	None	17.25

### Media Air Cleaners

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77932	ACM1000M-108 16IN X 20IN X 4IN MEDIA AIR CLEANER	—
1	EA	77933	ACM1400M-108 16IN X 25IN X 4IN MEDIA AIR CLEANER	—
1	EA	77934	ACM1600M-108 20IN X 20IN X 4IN MEDIA AIR CLEANER	—
1	EA	77935	ACM2000M-108 20IN X 25IN X 4IN MEDIA AIR CLEANER	—

### Media Air Cleaner Replacement Filters

3	EA	77936	FR1000M-108 MERV 8 16IN X 20IN X 4IN MEDIA REPLACEMENT FILTER	—
3	EA	77937	FR1400M-108 MERV 8 16IN X 25IN X 4IN MEDIA REPLACEMENT FILTER	—
3	EA	77938	FR1600M-108 MERV 8 20IN X 20IN X 4IN MEDIA REPLACEMENT FILTER	—
3	EA	77939	FR2000M-108 MERV 8 20IN X 25IN X 4IN MEDIA REPLACEMENT FILTER	—

White  
Rodgers

## ACM Series Media Air Cleaners 5" Media Air Cleaner with Metal Cabinet



The Media Air Cleaner cabinet mounts on the return-air side of the furnace to re-circulate and filter the air in the home at up to 55% efficiency, keeping wallpaper, paint, and furnishings cleaner longer. The advanced filtration system also removes household dust and animal dander from the air you breathe.

The ACR model electronic air cleaner upgrade kit can be added to any ACM model for an easy and cost-effective upgrade from Media to Electronic Air Cleaning. This upgrade can increase the capture of airborne contaminants from 55% to 98%.

- Easy-access service door.
- Durable baked-enamel tan finish.
- Uses no electricity.
- Protects heating and cooling equipment.

Model No.	CFM	Size (In.)	Cabinet Dimensions H x W x D (In.)	Recommended CFM Range	A/C Tonnage	BTU Input Range	Power Requirements	Wt. Lbs.
ACM-2000U	2000	20 x 26	20-1/4 x 24-3/8 x 7	1600-2200	Up to 5.5	Up to 220,000	None	19

### Media Air Cleaner

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77997	ACM2000U-108 20X25 MERV8 MEDIA AIR CLEANER	—
1	EA	77998	ACM2000U-108S2 20X25 MERV8 MEDIA AIR CLEANER	—

### Media Air Cleaner Replacement Filters

3	EA	77979	FR1000-100 16X20 FILTER REPLACEMENT F/ACM1000	—
3	EA	77980	FR1400-100 16X26 FILTER REPLACEMENT F/ACM1400	—
3	EA	77981	FR1600-100 20X20 FILTER REPLACEMENT F/ACM1600	—
3	EA	77982	FR2000-100 20X26 FILTER REPLACEMENT F/ACM2000	—



## Polarized-Media Electronic Air Cleaners



Dynamic air cleaners are high-efficiency, whole-house electronic air cleaners with an equivalency rating of MERV 13. These air cleaners remove difficult odors and provide a capture efficiency of 97% down to .3 microns. This is accomplished using a unique, disposable, low-static, polarized media pad with an activated charcoal center screen.

Dynamic Air Cleaners install quickly without costly ductwork reconfiguration. The one inch panels fit directly into existing filter racks or filter grilles and are powered using simple 24V wiring connected to the central HVAC system. 5 year warranty.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	41125	1P1620C24 16X20X1 PANEL AIR CLEANER	—
1	EA	41126	1P1625C24 16X25X1 PANEL AIR CLEANER	—
1	EA	41127	1P2020C24 20X20X1 PANEL AIR CLEANER	—
1	EA	41128	1P2025C24 20X25X1 PANEL AIR CLEANER	—
1	CTN	41129	C3P1620 16X20X1 CARBON 3-PK REPLACEMENT MEDIA	—
1	CTN	41130	C3P1625 16X25X1 CARBON 3-PK REPLACEMENT MEDIA	—
1	CTN	41131	C3P2020 20X20X1 CARBON 3-PK REPLACEMENT MEDIA	—
1	CTN	41132	C3P2025 20X25X1 CARBON 3-PK REPLACEMENT MEDIA	—
1	EA	41133	24VPWRPKS 24V POWER PACK	—
1	EA	41134	1P2424C24 24X24X1 PANEL AIR CLEANER	—
1	CTN	41135	C3P2424 24X24X1 CARBON 3-PK REPLACEMENT MEDIA	—

# BROAN HEPA Filtration Units



A GuardianPlus™ Air System can be installed in many different locations in a house: attic, basement, closet, crawl space, even a garage. It can work with the existing furnace ductwork, or installed as a stand alone unit in homes with radiator or wood stove heating. It can be installed horizontally or vertically for even more flexibility. And it is light enough for easy installation by one person.

### GSHH3K

- All the benefits of filtration and ventilation plus a heat recovery system that preheats air from the outside before circulating it throughout the home.
- Systems are affordable and can be installed as stand-alone units or connected to furnace ductwork. Easy installation with exclusive features and a 2-year limited warranty.
- Increased comfort with heating cost savings.
- Installation kit and wall control included.

### Maximum Ventilation Area: Entire home with as many as 6 bedrooms\*

- Rate of Fresh Air Flow (CFM): 70-105 CFM
- Total Air Flow (CFM): 270
- Diameter:  
Air Exhaust and Fresh Air Vents: 5 or 6 in.  
Indoor Air Ports: 8 in.
- Voltage: 120V
- Power: 232 W
- Dimensions: 29.4" H x 22.9" L x 22.9" D
- Weight: 57 lbs.

\* Based on 15 cfm of fresh air per person, 2 people in the first bedroom and one in the rest, 105 cfm ventilates an entire home with up to 6 bedrooms. Local requirements may vary.

### Filtration Units

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	41857	GSHH3K HEPA FILTRATION W/ HRV	—

### Replacement Filter

1	EA	41859	ACCGSFHP2 HEPA-PREFILTER KIT	—
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## GENERALAire AC 500 HEPA Air Cleaner



The AC 500 HEPA Air Cleaner is designed to be directly mounted on the return air duct, or with the optional collar installation kit for remote mounting. The use of an advanced pull and push design offers a double sound barrier. The motor pulls the air through the pleated filter and charcoal filter, then pushes it through the HEPA Media Filter which acts as a double sound attenuator.

**Dimensions:** 13" D x 17" W x 22" H  
**Performance:** 200/300 CFM  
**Voltage:** 120 VAC at 60 hz  
**Amperage:** 1.5A  
**Power Consumption:** 130 W  
 CSA certified

### HEPA Air Cleaner

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	40009	AC500 120V 200/300CFM H.E.P.A. AIR CLEANER	—

### Accessories

1	EA	40010	CMK500/HCM500 COLLAR MOUNT ADAPTER KIT/AC500	—
1	EA	40012	ARK564/HMK500 ANNUAL FILTER ANNUAL FILTER REPL KIT/AC500	—

# Honeywell Filters for F500 Whole House HEPA Filtration System

### Three-filter System

- Activated carbon filter for odors.
- High-efficiency pleated pre-filter extends HEPA filter life.
- HEPA filter traps at least 99.97 percent of the 0.3 micron particles that pass through it.

### Efficiency

- Pleated prefilter: MERV 8 at 374 fpm.
- HEPA Filter: Media removes 99.97 percent of 0.3 micron particles from the air that pass through it.
- F500A is intended for mounting in conditioned spaces.
- CSA Approved.
- Dimensions: 19 H x 12-1/2 W x 25-1/2 D (In.)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
20	EA	78180	32006026-001 CARBON FILTER FOR F500A 1000	—
6	EA	78181	32006027-001 PRE FILTER FOR F500A 1000	—
1	EA	78182	32006028-001 HEPA FILTER FOR F500A 1000	—



## Replacement Lamps For UV Air Purifier

The Second Wind Air Purifier with ultraviolet germicidal light sterilizes and reduces a substantial amount of molds, bacteria, chemical gasses, solvents, and odor causing contaminants. As these microscopic bioaerosols are rotated back to the return air assembly (kill zone) and exposed to the germicidal light, their DNA structure is altered, thus sterilizing them.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	41824	1068 (LP-PP-0032) REPLACEMENT LAMP F/1000-01KA-KCS	—
6	EA	41825	1076(LP-PP-0033) 18IN REPLACEMENT LAMP PHOTOCATALYTIC F/2000-18	—



## Replacement Lamp for the SP-191

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	41832	AS-IH-1003 17IN REPLACEMENT LAMP F/SP-19	—



# UV100E Ultraviolet Air Treatment System with Smart Lamps



UV100E 1043



UV100E 2009



UV100E 3007, UV100A 1059

- SmartLamp Control Algorithm determines UV lamp usage by optimizing lamp run time and lamp starts.
- SmartLamp LED shows lamp life and replacement.
- Automatic brownout and high temperature protection for UV lamps.
- UV-C light kills airborne and surface bacteria.
- UV lamp does not produce ozone.
- Easy lamp maintenance with quick and easy lamp replacement.
- Sealed unit design prevents accidental installer and homeowner contact with high voltage and ultraviolet rays.
- Safe design prevents lamps from lighting unless the base is correctly mounted on the HVAC duct.
- Light pipe to safely view the lamp operation.
- Power cord that plugs into 120 Vac electrical outlet.

**Operating Temperature (inside duct):** 30° F to 140° F.

**Operating Temperature (outside duct):** 30° F to 104° F.

Model No.	Type	Bulb Length (In.)	Mounting	Unit Dimensions H x W x D (In.)
UV100E 1043	Single Lamp	7-7/16	Return	7 x 7 x 11-7/26
UV100E 2009	Double Lamp	14-7/8	Return	8-1/2 x 10 x 18-7/8
UV100E 3007	Coil Irradiation	14-7/8	Coil	7 x 7 x 18-7/8
UV100A1059	Coil Irradiation	14-7/8	Return/Coil	7 x 7 x 18-7/8

## UV100E Ultraviolet Air Treatment System

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	78146	UV100E 1043 1-LAMP UV W/SMART LAMP	—	—
6	EA	78147	UV100E 2009 2-LAMP UV W/SMART LAMP	—	—
6	EA	78148	UV100E3007/U COIL UV W/SMART LAMP	—	—
6	EA	78167	UV100A1059/U UV COILPLUS LAMP	—	—

## UV Replacement Lamps

Electrical Rating	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
18	12	EA	78127	UC100E1006/U LAMP FOR UV100E1001/1043	—	—
36	12	EA	78129	UC100E1030/U LAMP FOR UV100E1035/3007 1 PER BOX	—	—
18	12	EA	78174	UC18W1004/U REPLACEMENT BULB FOR 18W UV DEVICES	—	—
36	12	EA	78175	UC36W 1006 REPLACEMENT BULB FOR 36W UV DEVICES	—	—

# GENERALAire UV Air Purifiers



**GUV100A83**



**GUV25403A**



**MS24**



**PCO2450**

The air we breathe in our homes can be up to 100 times more polluted than outdoor air. GeneralAire's Ultraviolet (UV) light technology enables you to have whole-house air treatment energy, like the sun, to improve your homes indoor air quality.

**GUV100A83**

- 4" W x 8.75" H x 2.75" D
- 36 Watt, 16" UVC germicidal H-lamp
- 120 VAC/240 VAC regulating electronic ballast
- Max 2000 CFM or 4500 Sq. Ft.

**GUV25403A**

- 4" W x 11.75" H x 2.75" D
- 36 Watt, 16 inch germicidal H-lamp
- 8 Watt, 5 inch super plasma lamp
- 120 VAC/240 VAC regulating electronic ballast
- Max 2000 CFM or 4500 sq. ft.

**MS24**

- Mounting Plate: 3" x 3"
- UVC H-Lamp: 1.75" x 16.25"
- Duct Mounting Hole: 2"
- 24 VAC, 2 Amp
- UL listed electronic ballast
- UVC H-Lamp Potency: 36 watt, 105 uw/cm" at 1 meter

**PCO2450**

- 8-1/2" W x 7-3/8" H x 2" D
- 50 Watt, 18 inch UVC lamp
- Max 2000 CFM or 4000 sq. ft.
- High Output Temperature Compensating (HOTC) 120v/240v ballast

**UV Air Purifiers**

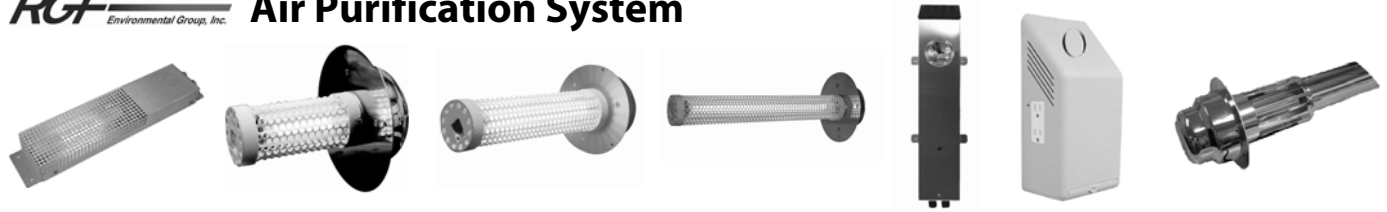
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5
1	EA	40015	GUV100A83 36W 120/240V 16IN H-LAMP UVC AIR PURIFIER	—	—
1	EA	40014	GUV25403A 36W 120/240V UVC/03 SUPER PLASMA AIR PURIFIER	—	—
1	EA	40025	MS24 36W 16IN 24V H-LAMP MICROBESWATTER	—	—
1	EA	40026	MS24OZ 36W 16IN 24V MICROBESWATTER MICROBESWATTER SWEETSHOT LAMP	—	—
1	EA	40013	PCO2450 50W 120V 18IN HYBRID PCO/UVC AIR PURIFIER	—	—

**Replacement Parts**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	40023	AG2436 REGULATING ELECTRONIC ELECTRONIC BALLAST FOR MS24	—
1	EA	40022	AGL36 24V GERMICIDAL W/MAGNETIC MOUNTING BASE	—
1	EA	40027	AGL36OZ SWEETSHOT REPLACEMENT SWEETSHOT REPL LAMP	—
1	EA	40021	BL410 120/240V REGULATING BALLAST FOR GUV25403A	—
1	EA	40020	BL411 120V/240V REGULATING ELECTRONIC BALLAST FOR GUV100A83	—
1	EA	40024	GA3501 50VA 120/208/240V PRIMARY TO SECONDARY MULTI-MOUNT TRANS	—
1	EA	40017	HOTC-1 120/240V 120/240V REGULATING BALLAST FOR PCO2450	—
1	EA	40016	LT-50 UVC 50W 18IN REPLACEMENT REPLACEMENT FOR PCO2450	—
1	EA	40019	LSK36-UVC16HC 16IN 36W REPLACEMENT H-LAMP FOR GUV100A83&25403A	—
1	EA	40018	UVVCL 5IN SUPER PLASMA OZONE REPLACEMENT LAMP FOR GUV25403	—



**RGF** Environmental Group, Inc. **Air Purification System**



**HVAC-Mini**  
**HVAC-Mini**

The Guardian Air Mini unit size is scaled to accommodate the various air flow rates of different HVAC systems. Note: It is recommended these units be installed by a licensed electrician. Install unit in conjunction with an HVAC system utilizing a minimum air volume of 250 cfm.

- Electrical: 12 VDC input 100-240 VAC switching power supply.

**HVAC-PHI-118GAVSF**

The Guardian Air-VSF is designed specifically to meet the unique challenges that are created by today's new variable speed fan systems. Electrical: 100-240 VAC 50/60 Hz auto switching power supply.

- PHI Cell Replacement: Every 25,000 hours.

**HVAC-PHI-212-16**

The Guardian Air by RGF® reduces odors, air pollutants, VOCs (chemical odors), smoke, mold bacteria, and viruses. The HVAC-PHI cells are easily mounted into air conditioning and heating systems air ducts. When the HVAC system is in operation the HVAC-PHI Cell creates an Advanced Oxidation Process consisting of hydro-peroxides, ozonide ions, super oxide ions and hydroxide ions.

- PHI Cell Replacement: Every 25,000 hours
- HVAC Air Blower Size: 1,000 to 6,500 CFM
- Electrical: 100-240 VAC 50/60 Hz auto switching power supply.

**HVAC-PHI-357**

- PHI Cell Replacement: Recommended after 25,000 hours.
- HVAC Air Blower Size: 18,000 to 26,000 CFM.

**Warranty**

- All air purification systems have a 2 year warranty.

**IMS-B-16 Dual Port Ice Machine Sanitizer**

The Guardian Air Ice features an advanced oxidation process for ice machine bacteria, virus, and odor abatement.

- 3 year continuous operation average photohydroionization™ cell life.
- The RGF Guardian Air Ice Photohydroionization™ Module will destroy the following airborne substances: Decomposing organics, mold and mildew, bacteria, algae, chemical fumes, fungus, yeast, pollen, hydrocarbons, ke-tones, spores and VOCs.

**PIP-16 Plug-In Model**

The Guardian Air Plug-in Natural Air Purification System provides bacteria, mold, odor and VOCs (chemical orders) reduction. The Guardian Air Plug-in can be used in any room and be completely inconspicuous. The Guardian Air Plug-in plugs directly into a wall outlet and can be used with or with-out its internal fan.

- 25,000 hour cell life
- Built in night light and outlets
- ETL listed

**REME-HVAC-305**

The Reflective Electrto Magnetic Energy (REME) utilizes an electro magnetic energy cell to create Ionized-Hydro-Peroxides™, a friendly oxidizer plasma made from oxygen and humidity. This air purifying plasma is propelled into the HVAC duct or plenum by a silent plasma propulsion module that has no moving parts, yet propels the plasma at 2 cfm. This provides for fan or blowre-less operation on a 24-hour basis.

- Electrical: 110-220 VAC 50/60 Hz

Dimensions (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10-1/2 H x 2-1/4 W x 1-1/4 D	1	EA	76206	HVAC-MINI GUARDIAN AIR	—
5-1/2 H x 7 L	1	EA	76208	HVACPHI-118GAVSF PHI CELL VARIABLE SPEED	—
5-1/2 H x 9 L	1	EA	76200	HVAC-PHI-212-GA 9IN PHI CELL	—
5-1/2 H x 14 L	1	EA	76207	HVAC-PHI-357HOGA 14IN PHI CELL HIGH OUTPUT	—
18 H x 4 W x 4 D	1	EA	76202	IMS-B-16 DUAL PORT ICE MACHINE PHI CELL UNIT	—
10 H x 6-1/4 W x 3-3/4 D	1	EA	76201	PIP-16-GA PURE AIR PLUG IN	—
5-1/2 H x 12 L	1	EA	76212	REME-HVAC-305 9IN STD GA GUARDIAN AIR REME	—

**Replacement Cells**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	76203	PHIC-9C 9" OLD STYLE REPLACEMENT CELL	—
1	EA	76204	PHI-5A PLUG-IN UNIT REPLACEMENT CELL	—
1	EA	76205	PHIC-9A ICE MACHINE UNIT REPLACEMENT CELL	—
1	EA	76209	PHIC-9GA 9" NEW STYLE REPLACEMENT CELL	—
1	EA	76210	PHIC-14HOGA 14" REPLACEMENT CELL	—
1	EA	76211	PHIC-5GA-VSF REPLACEMENT CELL	—

# Aprilaire® 8126 Ventilation Control System and Accessories



### Features

- Separate ventilation time adjustment controls that satisfy your customers' needs.
- Separate cycle time adjustment allows fan to cycle, increasing air cleaner and humidifier run times.
- Minimum off times between cooling call and unsolicited blower call (UBC) allows coil to drain before running fan to prevent moisture from being added back into the home.
- 24-volt control, easy to install, saving time and money.
- Measures outdoor temperature to stop ventilation at extremely hot or cold outdoor temperatures increasing comfort and energy savings over other economical ventilation options.
- Measures indoor relative humidity, preventing home indoor RH from exceeding 60%.
- Suitable for any application. Ability to override temperature and humidity controls allows installation flexibility.

### Controller Specifications

- Input (RC): 18 to 30 VAC, 1 amp maximum
- Damper output: 18 to 30 VAC, 1 amp maximum closed contact
- Temperature accuracy: ± 2° F
- Relative humidity accuracy: ± 5% RH
- Cycle time: 1, 2, 3 or 4 hours (selectable)
- Ventilation time: 0–60 minutes
- Damper Specifications
- Normally-closed, power open
- 24 VAC
- 0.41 amp
- 2-wire
- 6" diameter
- 10-3/4" long
- Max static pressure: 1.0" WC

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	41404	8126 VENTILATION CONTROL SYSTEM	—

# Aprilaire® PerfectAire® Fresh Air Exchanger



The PerfectAire® Fresh Air Exchanger is designed to work in conjunction with the home's forced air system, or totally independently, incorporating its own duct system to provide the homeowner with a supply of fresh air distributed into the living space and to exhaust stale air from the home to the outdoors through the EnergyMax™ Transfer Core. It is designed to handle homes with up to 3,000 sq. ft. of living space. The unit features a washable aluminum mesh filter and a three year limited warranty. No condensate drain or defrost cycles needed.

### Dimensions:

37-3/8" W x 20-5/8" H x 12-3/4" D.

**Unit Capacity:** 3,000 sq. ft.

**Free Air Flow:** 150 CFM each air stream.

**Design Air Flow:** 120 CFM @ 0.3" w.c. external duct resistance.

**Electrical Usage:** 120 Vac, 60 Hz., 1.4 amps.

**Temperature Efficiency:** 77% at 120 CFM.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	41508	8100	—

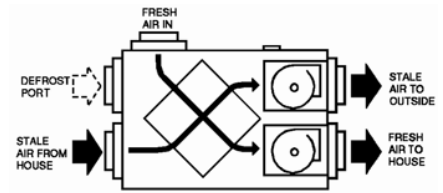
# Honeywell Perfect Window™ Fresh Air Ventilation System



HR200B



W8150A



Air Flow Diagram

The Fresh Air Ventilation system is designed to supply fresh air and exhaust stale air. The system draws fresh outdoor air through the ventilator for distribution throughout the house. Stale air is exhausted through the ventilator and to the outdoors. The Energy Recovery unit transfers heat and moisture from one airstream to the other as the air passes through opposite sides of the enthalpic fixed core. The Heat Recovery unit transfer heat from one airstream to the other as the air passes through the opposite sides of the heat transfer core.

U.L. Listed.

Home Ventilation Institute Certified.

Provides ventilation that helps contractors meet ASHRAE 62-89. Features include low voltage, high-speed override, 4-speed fan control, automatic, economical built-in defrost, and easy-to-clean aluminum cross-flow core is highly conductive and assures years of trouble-free operation. Includes vibration isolation hardware and duct collars. Insulated cabinet made of rugged steel, permanent (washable) prefilters, quiet operation, and digital fan timer option on all models.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	70384	W8150A1001/U FRESH AIR VENT CONTROL	—
1	EA	70393	HR200B 1005 HEAT RECVRY VENT 137-214 CFM	—

# Honeywell TrueBREEZE Balanced Ventilation Systems



## Balanced Ventilation

The goal of a ventilation system is to balance the exchange of the home's stale air with fresh outside air while recovering as much of the heating or cooling energy as possible. Too much positive pressure (stronger air coming in) can lead to the cracking of walls or freezing of locks, while too much negative pressure (stronger air going out) can lead to mold and air quality issues. Plus, a properly balanced ventilation system is required by home building codes. TrueBREEZE offers timesaving installation and simplified balancing.

## Features

- Removable duct collars
- Simplified balancing
- Adjustable hanging straps
- Centralized wiring and speed control
- Customizable
- Compact size
- ENERGY STAR® rated
- Meets ASHRAE 62.2 standards
- 5-year warranty

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	70388	VNT5150E1000/U TRUE BREEZE ERV 150 CFM	—
1	EA	70389	VNT5200E1000/U TRUE BREEZE ERV 200 CFM	—
1	EA	70394	VNT5150H 1000 TRUE BREEZE HRV 150 CFM	—
1	EA	70395	VNT5200H 1000 TRUE BREEZE HRV 200 CFM	—

# Honeywell Y8150 Fresh Air Ventilation Damper



- Designed to help meet local ventilation codes and standards, including ASHRAE 62.2-2003 standard, "Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings."
- Microcontroller optimizes the air delivery schedule to make efficient use of normal HVAC run times.
- Easy-to-use input dials allow customized ventilation for each installation.
- Test mode that includes immediate feedback to installer to confirm that air delivery requirements of selected ventilation standard are being met.
- Economical supply-only ventilation; works with forced air system.
- Can be used with other equipment, such as an HRV/ERV, for balanced ventilation.

**Y8150 Includes:**

- W8150A Fresh Air Ventilation Control.
- EARD6 Fresh Air Damper.
- AT120B Transformer.
- Mounting hardware for control.
- Homeowner information label.

**W8150A Control:**

Power Supply: 20-30 Vac, 60 Hz.  
 Power Consumption: 3.5 VA to 24 Vac.

**EARD6 Damper:**

24 Vac, 12 VA, 60 Hz.  
 Operation: Power-open, spring-closed.  
 Diameter: 6 inch.

**AT120 Transformer:**

Input: 120 Vac.  
 Output: 27 Vac open circuit, 24 Vac full load to 20 VA.

**Temperature:** -20° F to 160° F.

**Humidity:** 5 to 90% RH, noncondensing.

**Input Setting Ranges:**

Bedrooms: 2-5.  
 Area: 1000-4600 Sq. Ft.  
 Vent Airflow: 40-160 CFM.

**Composite Setting Resolution:** +/- 12% of ASHRAE 62.2-2003, recommended ventilation for single-system setup.

**AT120B Approvals:** UL Component  
 Recognized: Class 2, File No. 14881.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	70385	Y8150A1009/U 6" VENTILATION DAMPER KIT	—

# Honeywell Central Vacuum Cleaners



Central Vacuum Systems (CVS) connect vacuum inlets to the power unit/collection canister via duct that is installed through interior walls, attic, basement, and crawlspaces.

- **Superior Cleaning Performance.** New high powered air watt motors have up to 25% more cleaning power. This means it will remove more dust and allergens from the living area. The new product line up features single motor models from 500 to 630 air watts and cover up to 12,000 square feet of living space.
- **Superior Filtration.** All models feature self-cleaning Triumph HEPA filtration.
- **Easier Installation.** Optional air intake allows flexibility when piping to power unit. "Speaker style" low volt connectors.
- **Quiet Operation.** Patented sound-reducing technology paired with an improved muffler make the new Honeywell power units quieter than ever before.

The Honeywell cleaning sets features a completely new design that offers the ultimate cleaning experience.

### H100 Starter Cleaning Set

- Electric power brush adjusts automatically to any carpet height
- 30' 1-1/4" crushproof, switch-controlled electric hose
- Ergonomic fixed handle with cord management
- Attachment set includes: set of plastic wands, wall and bare floor brush, crevice tool, round dusting brush, three-tool caddy, upholstery nozzle and slip-on brush, hose rack.

### H300 Elite Cleaning Set

- Electric power brush adjusts automatically to any carpet height
- No-slip cogged belt drive
- LED headlight
- Easy change release disconnects the wand from power head
- 30' 1-3/8" crushproof, total-control electric hose with reversible cuff
- Gray quilted hose sock
- Ergonomic full-swivel handle with cord
- Premium attachment set includes: bare floor brush, crevice tool, dusting brush, fine China brush, upholstery brush, and tool caddy

### H400 Premium Cleaning Set

- Premium electric powerbrush includes 5-level height adjustment
- No-slip cogged belt
- LED headlight
- Easy change release
- 30' hose with full swivel handle
- Extra telescopic chrome wand
- Premier cleaning attachment
- 2-year warranty

Model Number	Max Home Size (Sq. Ft.)	Suction Power (water lift)	Airflow (CFM)	Air Watts	Max. Amps	Voltage	Dirt Receptacle Cap. (Gal)	Number of Motor Stages
5208 H-403	3,000	110	120	500	13.7	120	4	1
5211 H-703	8,000	138	124	590	14.5	120	4	2

### Power Units

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	46330	5208 H-403 3500 SQ FT CENTRAL VACUUM	—
1	EA	46331	005211 H-703 8000 SQ FT CENTRAL VACUUM	—

### Cleaning Sets

1	EA	46332	99272 H-100 STARTER ELECTRIC CLEANING SET	—
1	EA	46333	099290 H-300 ELITE ELECTRIC CLEANING SET	—
1	EA	46356	H-400 CLEANING SET	—

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**Installation Kits**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	46336	40007 3-INLET FITTINGS KIT	—
1	EA	46337	40012 2-INLET FITTINGS KIT	—

**Installation Tools**

1	EA	46354	65310 QUICK RELEASE PIPE CUTTER	—
10	EA	46355	040035-010 VACPAN STUB IN KIT	—

**Installation Materials**

40	EA	46341	030290-400 2IN 8FT PIPE	—
120	EA	46342	030020-120 90 DEGREE DUAL ELBOW	—
120	EA	46343	030120-120 90 DEGREE SWEEP ELBOW	—
140	EA	46344	030110-140 45 DEGREE ELBOW	—
140	EA	46345	030115-140 45 DEGREE ELBOW WITH EXTENSION	—
50	EA	46346	030140-050 90 DEGREE SWEEP TEE	—
210	EA	46347	030145-210 STOP COUPLER	—
100	EA	46348	025010-100 NAIL GUARD	—
75	EA	46349	030013-075 PLASTIC STUD MOUNTING BRACKET	—
24	EA	46350	015235-024 PLASTIC INLET COVER WITH SCREWS	—
24	EA	46351	015616-024 PLASTIC BISQUE INLET COVER WITH SCREWS	—
50	EA	46352	030016-050 PLASTER GUARDS FOR PLASTIC MOUNTING BRACKET	—
205	EA	46353	030172-205 PIPE HANGER CLAMPS	—

**Accessories**

1	EA	46334	170331 BLUE QUILTED HOSE SOCK	—
1	EA	46335	60009 DELUXE CAR CARE KIT	—
12	EA	46338	16927-012 VACPAN SWEEP INLET VALVES	—
1	EA	46339	30063 WHITE VACPAN TRIM PLATE	—

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# Group 10 Hydronics

Group 10 Hydronics

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## Buderus GB142 Series Wall-Hung Condensing Gas Heaters

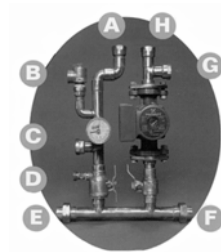
Intelligent Heating



The GB142 is designed with a state-of-the-art aluminum heat exchanger and integrated controls. Utilizing advanced condensing technology, the Buderus GB142 Wall-Hung Heater maximizes the heating value of every cubic foot of natural gas or propane. Its small size and minimal clearance requirements provide tremendous installation flexibility.

The included prefabricated manifold is specially designed with an appropriately sized 3-speed circulator, to ensure proper flow-rate through the heater. By simplifying the piping, the GB142 manifold allows for quicker, easier, and trouble-free installation. Every GB142 includes the RC10 room comfort controller and DHW sensor for control of an indirect DHW tank. The GB142 is approved for PVC venting.

GB142 Manifold included with each model.



Inside view:

- A: Heater Out
- B: Relief Valve
- C: DHW Supply
- D: Purge
- E: System Supply
- F: System Return
- G: DHW Return
- H: Heater In

Model No.*	Input BTUH	Output BTUH		Rated Efficiency**	Boiler Dimensions			Weight (Lbs.)
		176°/140°F	122°/86°F		Height (In.)	Width (In.)	Depth (In.)	
GB142/24	84,800	22,700-75,200	25,300-83,300	98%	28	22	18-3/4	110
GB142/30	106,000	28,100-91,500	30,700-102,400	97%	28	22	18-3/4	110
GB142/45	160,900	42,500-142,000	47,200-158,000	98%	28	35-1/2	18-3/4	143
GB142/60*	214,800	56,800-198,800	63,200-211,600	99%	28	35-1/2	18-3/4	158

\* LP kits included with /24, /30, and /45 Model– GB142/60 ONLY available in natural gas.

\*\* Efficiency based on 86° return temperature.

### Wall-Hung Condensing Gas Heaters

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	68027	GB142/24 84,800BTU WALL HUNG HEATER 2 CTNS
1	EA	68029	GB142/30 106,000BTU WALL HUNG HEATER 2 CTNS
1	EA	68031	GB142/45 160,900BTU WALL HUNG HEATER 2 CTNS
1	EA	68052	GB142/60 214,000BTU WALL HUNG HEATER 2 CTNS

### Duct Kit

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	61120	DCVK-30 HORIZ/VERT CONCENTRIC DUCT KIT 3IN	—

### Propylene Glycol (For Aluminum Cast Block Boilers)

1	EA	95933	35283 5 GAL CRYO-TEK-100AL FOR ALUMINUM HEAT EXCHANGERS	—
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## Buderus GC124 Residential Gas-Fired Hot Water Boilers

Intelligent Heating



Designed for replacement applications, the GC124 is capable of delivering AFUE efficiencies up to 84%, with heating capacities of 74,000 through 132,000 BTUH. All GC124 boilers are CSA approved for installation on combustible floors and are available with either standing pilot or electronic ignition.

The GC124 features Buderus' patented GL180M Flexible Cast Iron and unique stainless steel premix burners for maximum corrosion resistance. Additional standard equipment on the GC124 includes high precision castings with threaded steel nipples, Honeywell aquastat, tridicator gauge, 30 psi relief valve, a circulator with a 3" whip and a built-in draft hood with integral draft diverter. All models are shipped ready for natural gas operation, and can be easily field converted to LP gas operation using optional conversion kit.

Model No.	BTU Input BTU/HR	DOE Heating Capacity BTU/HR	I=B=R Net BTU/HR	Vent Size (In.)	AFUE Eff. %		Approx. Shipping Weight (Lbs.)
					Standing Pilot	Electronic Ignition	
GC-124-3 (SP or EI)	74,000	61,400	54,000	5	80.9	84	228
GC-124-4 (SP or EI)	103,000	85,500	74,000	5	81.7	84	287
GC-124-5 (SP or EI)	132,500	110,000	96,000	6	82.4	84	350

NOTE: SP = Standing

### Standing Pilot

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	65090	GC124-3SP NAT SP WTR BOILER W/PUMP & DAMPER
1	EA	65093	GC124-4SP NAT SP WATER BOILER W/PUMP & DAMPER

### Electronic Ignition

1	EA	65095	GC124-3II NAT EI WTR BOILER W/PUMP & DAMPER
1	EA	65096	GC124-4II NAT EI WTR BOILER W/PUMP & DAMPER
1	EA	65097	GC124-5II NAT EI WTR BOILER W/PUMP & DAMPER

## Buderus G-234X Residential Gas-Fired Hot Water Boilers

Intelligent Heating



The G-234X Gas Boilers feature low temperature operation and unrestricted return temperature with optional Logamatic Control+, low emissions with premixed burner technology. Vent damper included. Standard equipment includes stainless steel burners, factory assembled and wired boiler, all Honeywell controls, slow opening gas valve, tridicator, and 3" insulated jacket.

Boiler sections tested to 58 PSI working pressure; non-combustible base. Boilers are set for natural gas, sea level. Circulator not included.

The standard B-Kit includes:

- 30 lb. relief valve
  - Boiler drain
- AGA/CGA certified.

Model No.	BTU Input BTU/HR	DOE Heating Capacity BTU/HR	I=B=R Net BTU/HR	Vent Size (In.)	AFUE Eff. %	Approx. Shipping Weight (Lbs.)
G-234X-38	160,000	130,000	113,000	7	84.3	487
G-234X-45	187,000	154,000	134,000	7	84.1	487
G-234X-55	228,000	188,000	163,000	7	84.8	562
G-234X-64	266,000	219,000	190,000	8	84.3	684

NOTE: Models are intermittent ignition, single-stage.

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	68204	G-234X-38 NAT EI WTR BOILER L/PUMP W/DAMPER
1	EA	68205	G-234X-45 NAT EI WTR BOILER L/PUMP W/DAMPER
1	EA	68206	G-234X-55 NAT EI WTR BOILER L/PUMP W/DAMPER
1	EA	68207	G-234X-64 NAT EI WTR BOILER L/PUMP W/DAMPER

# Buderus G-334X Commercial Gas-Fired Hot Water Boilers

Intelligent Heating



The G-334X Series Gas Boilers feature low temperature operation and unrestricted return temperature with optional Logamatic Control+, low emissions with premixed burner technology. Vent damper is optional. Standard equipment includes stainless steel burners, factory assembled and wired boiler (jacket and draft hood packed separately), all Honeywell controls, slow opening gas valve, tridicator, and 3" insulated jacket.

Boiler sections tested to 58 PSI working pressure; non-combustible base. Boilers are set for natural gas, sea level. Circulator not included.

The standard B-Kit includes:

- 30 lb. relief valve
  - Boiler drain
- AGA/CGA certified.

Model No.	BTU Input BTU/HR	DOE Heating Capacity BTU/HR	I=B=R Net BTU/HR	Vent Size (In.)	AFUE Eff. %	Approx. Shipping Weight (Lbs.)
G-334X-73	301,000	249,000	217,000	8	83.5	758
G-334X-92	378,000	314,000	273,000	9	82.9	930
G-334X-116	476,000	396,000	344,000	10	83.8	1,093
G-334X-132	542,000	451,000	392,000	10	83.2	1,265

NOTE: Models are intermittent ignition, two-stage firing capability.

**Prices Available on Request**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	68208	G-334X-73 NAT EI WTR BOILER L/PUMP & DAMPER
1	EA	68209	G-334X-92 NAT EI WTR BOILER L/PUMP & DAMPER
1	EA	68210	G-334X-116 NAT EI WTR BOILER L/PUMP & DAMPER 3 CTNS
1	EA	68211	G-334X-132 NAT EI WTR BOILER L/PUMP & DAMPER 3 CTNS

# Buderus GA-124/GA-244 Residential Gas-Fired Hot Water Boilers

Intelligent Heating **Sealed Combustion**



GA-124

The GA180M cast iron, low emissions with premixed burner technology, and reduced footprint for tight spaces. Suitable for installation on combustible flooring. Standard equipment includes stainless steel burner, factory assembled and wired boiler, all Honeywell controls, slow opening gas valve, and 3" insulated jacket.

Concentric termination body is included for horizontal sealed combustion or direct vent application. Boilers are set for natural gas, sea level. Circulator with built 124 Series Sealed Combustion Gas Boiler features low temperature operation and special GL in flow check is included.



GA-244

The GA-244 Series Sealed Combustion Gas-Fired Boiler has the same features as the GA-124 model except no circulator is included.

- The standard B-Kit includes:
- 20 lb. relief valve
- Boiler drain.
- AGA/CGA certified

The standard B-Kit (shipped inside boiler carton) includes:

- 2 piece manifold 1"
- 30 lb. relief valve
- Tridicator
- 3/4" ball valve drain
- 3/4" black coupling
- 4 boiler feet
- 3/4" str. 90
- AGA/CGA certified

Model No.	BTU Input BTU/HR	DOE Heating Capacity BTU/HR	I=B=R Net BTU/HR	Vent Size (In.)	AFUE Eff. %	Aprox. Shipping Weight (Lbs.)
GA-124-17	70,000	59,000	51,000	3	85.2	225
GA-124-23	94,000	79,000	69,000	3	85.1	280
GA-124-30	123,000	104,000	90,000	3	85.0	335
GA-244-37	156,000	128,000	111,000	3	85.0	635
GA-244-44	182,000	148,000	129,000	3	85.0	635
GA-244-53	220,000	181,000	157,000	3 or 4	84.8	688
GA-244-62	259,000	212,000	164,000	4	84.6	772

Note: Models are intermittent ignition. Use 3" approved AL29-4C stainless steel vent pipe except use 4" on GA-244-62 model.

## Sealed Combustion Water Boilers

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	68221	GA-124-17 NAT EI SEALED COMBUSTION WTR BOILER W/ PUMP
1	EA	68222	GA-124-23 NAT EI SEALED COMBUSTION WTR BOILER W/ PUMP
1	EA	68223	GA-124-30 NAT EI SEALED COMBUSTION WTR BOILER W/ PUMP
1	EA	68224	GA-244-37 NAT EI SEALED COMBUSTION WTR BOILER L/PUMP
1	EA	68247	GA-244-44 NAT EI SEALED COMBUSTION WTR BOILER L/PUMP
1	EA	68271	GA-244-53 NAT EI SEALED COMBUSTION WTR BOILER L/PUMP
1	EA	68659	GA-244-62 NAT EI SEALED COMBUSTION WTR BOILER L/PUMP

## LP Conversion Kits for GA-124 Boilers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	68068	GA12417P85 LP CONVERSION KIT	—
1	EA	68093	GA12423P85 LP CONVERSION KIT	—
1	EA	68094	GA12430P85 LP CONVERSION KIT	—

# Buderus G-115 Residential Oil-Fired Hot Water Boilers

Intelligent Heating **Direct or Chimney Vented**



The G-115 Series Boiler with 3" of insulation is designed as a stand-alone boiler or is stackable on top of the LT Domestic Hot Water Tanks.

Boiler is shipped with blue enameled metal jacket installed.

Standard B-Kit includes:

- Tridicator
- 30 lb. relief valve
- 3-piece supply manifold 1-1/4"
- 4 burner mounting studs
- 3/4" str. 90
- 3/4" boiler drain

The aquastat well is factory-installed in the boiler block.

The KP Kit (Knocked-Down Package Kit included) contains:

- Set up for specific boiler including nozzle, recommended settings
- Special air tube and firing pin
- Beckett burner
- Grundfos "Brute" circulator with flanges and built-in flow check
- Honeywell aquastat L8148A
- 3 foot stainless steel flexible oil line and wiring harness

Model No.	Section	Firing Rate GPH	DOE Heating Capacity BTU/HR	Net IBR Rating BTU/HR	AFUE Eff. %	Flue Size (In.)	Approx. Shipping Weight (Lbs.)
G-115/21	3	.60	74,000	64,000	86.5	5	330
G-115/28	4	.80	98,000	85,000	86.8	5	400
G-115/34	5	1.00	120,000	104,000	86.0	5	470

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	68212	G-115-21 OIL BOILER W/11-11521KP & GRUNDFOS CIRC. 2 CTNS
1	EA	68213	G-115-28 OIL BOILER W/11-11528KP & GRUNDFOS CIRC. 2 CTNS
1	EA	68214	G-115-34 OIL BOILER W/11-11534KP & GRUNDFOS CIRC. 2 CTNS

# Buderus Domestic Hot Water Tanks

Intelligent Heating



Buderus domestic hot water tanks make hot water constantly available at the turn of a tap. The interior of the tank remains free of corrosion caused by most types of water by a permanent, protective coating. Hot water temperature is better maintained by use of 3-1/2" foam insulation.

The tank features thermoglaized tank interiors with large diameter rolled steel welded coils, CFC-free insulation, magnesium anode rod, and P & T valve 200 F, 150 PSI. Tanks are not ASME rated.

Horizontal—For Use with Buderus G-124 Boiler Models Only

Prices Available on Request

Height and Width (In.)	Length (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
25-3/4	36-1/4	1	EA	68393	LT-160 42 GAL HORIZ HOT WATER TANK	—
25-3/4	42-7/16	1	EA	68197	L-200 53 GAL HORIZ HOT WATER TANK	—

## Vertical

Height (In.)	Diameter (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
37	20	1	EA	68215	S-120 32 GAL VERT HOT WATER TANK
42-5/16	27-1/4	1	EA	68220	ST-200 53 GAL VERT HOT WATER TANK
57-2/3	26-1/2	1	EA	67242	SM-300 79 GAL VERT HOT WATER/SOLAR TANK

NOTE: Allow 15 inches above tank for anode rod removal.

# Buderus R-2107 Logamatic Control System

Intelligent Heating



Buderus Logamatic Control System R-2107 is capable of reducing fuel usage by as much as 30%. By monitoring outdoor as well as indoor temperature (requires BFU), the R-2107 maximizes fuel efficiency while delivering unmatched comfort. Space heating, domestic hot water production and programmable setback are all integrated into a single, intelligent source.

The R-2107 comes with DHW control and is suitable for use with any of today's hydronic heating options, whether it's baseboard, panel radiators, hydro-air systems or radiant floors.

Optional modules are available. The FM241 mixing valve control is for radiant floor. The FM242 burner staging control is for use with dual boiler systems or to operate a 2-stage or modulating burner.

**Functions**

- Indoor/outdoor reset
- Condensate protection
- FM241 mixing valve module
- Priority control
- Night set-back
- Multi-zone set-up
- FM242 2-stage module

**Prices Available on Request**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	68191	R-2107 LOGAMATIC CONTROL

# Buderus Boiler Parts

Intelligent Heating

Used On	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
G124X, G234X, G334X	1	EA	68186	471336 FLAME ROLL-OUT SWITCH	—
G234X, G334X	1	EA	68182	5181870 (VR8304H 4206) GAS VALVE	—
G124X, G234X, G334X	1	EA	68185	7079498 BLOCKED VENT SWITCH	—
G334X	12	EA	70565	L4006A1678/U AQUASTAT	—
G124X	1	EA	68390	L7148F 1075 AQUASTAT	—
G124X, G234X	1	EA	68184	L8148E 1281 AQUASTAT	—
G124X II, G234X, G334X	1	EA	68183	Q3451E 7103 PILOT ASSEMBLY	—
G124X, G234X, G334X, GA124	1	EA	68187	S8600H 3002 (S8600H 1006) SPARK IGNITION MODULE	—
G124X SP	1	EA	68188	SG124XPS PILOT ASSEMBLY	—
G124X SP	1	EA	68181	VR8200H 1004 GAS VALVE	—
G124X II, GA124	12	EA	73946	VR8204H1006/U GAS VALVE	—

# Buderus Parts for GB142 Condensing Wall-Hung Heaters

## Intelligent Heating

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	68055	67900522 COND COLLECTOR SEAL F/60	—
1	EA	68059	67900526 BURNER SEAL F/60	—
1	EA	68070	7096475 EXHAUST OUTLET GASKET	—
1	EA	68073	7098364 WALL MOUNTING BRACKET	—
1	EA	68075	7098575 SIGHT GLASS	—
1	EA	68077	7098822 AIR VENT REVISION SET	—
1	EA	68086	7098834 COND COLLECTOR SEAL F/24&30	—
1	EA	68087	7098838 COND COLLECTOR SEAL F/45	—
1	EA	68090	7098848 CLAMP F/COND COLLECTOR	—
5	EA	68091	7098850 (GASKETS) HOT SURFACE MOUNTING PLATE	—
1	EA	68092	7098916 BURNER SEAL F/24&30	—
1	EA	68095	7098920 BURNER SEAL F/45	—
1	EA	68097	7099006 HOT SURFACE IGNITOR	—
5	EA	68098	7099018 O-RING F/GAS VALVE ORIFICE	—
4	EA	68099	7099021 VENTURI/FAN SEAL	—
1	PR	68150	7099038 RIGHT CASING LATCH	—
2	EA	68164	7099039 LEFT CASING LATCH	—
5	EA	68167	7099058 SEAL F/AIR INTAKE FAN	—
5	EA	68169	7099059 GAS CONNECTION SEAL	—
1	EA	68170	7099707 120V UBA-3 BOILER CONTROL	—
1	EA	68180	7100136 NTC SUPPLY/RETURN SENSOR	—
1	EA	68245	7100229 HOT SURFACE IGNITOR SHIELD	—
5	EA	68246	7100742 CONDENSATE TRAP SEAL	—
1	EA	61540	73814 GB142 EXTERNAL CONNECTION BOARD	—
1	EA	68305	75978 CONDENSATE TRAP	—
1	EA	68101	7746900891 GAS CONTROL VALVE	—
1	EA	68321	78184 FAN	—
1	EA	68338	78186 CONTROLLER CONNECTION PLATE	—
1	EA	68351	78191 120V TRANSFORMER	—
1	EA	68384	78194 SAFETY SENSOR	—
1	EA	68385	78195 IONIZATION ELECTRODE	—
1	EA	68274	8718600019 (7101436) PRESSURE SENSOR	—

## Burnham Freedom Boilers Parts

AMERICA'S BOILER COMPANY  
Burnham Corporation

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	67786	100369-01 SUPPLY SENSOR F/ FREEDOM	—
1	EA	67996	100378-01 BURNER HOOD GASKET F/ FREEDOM	—
1	EA	67787	100391-01 RETURN TEMP SENSOR F/ FREEDOM	—
1	EA	67978	100450-01 MCBA DISPLAY BOARD F/ FREEDOM	—
1	EA	67845	100456-01 HYDROLEVEL 1100 LWCO F/ FREEDOM	—
1	EA	69194	100471-01 AT140 TRANSFORMER F/ FREEDOM	—
1	EA	69197	100499-01 CONDENSATE TRAP F/ FREEDOM	—
1	EA	66991	100509-01 IGNITION ELECTRODE F/ FREEDOM	—
1	EA	66992	100510-01 IGNITION ELECTRODE GASKET F/ FREEDOM	—
1	EA	67843	100517-01 HIGH LIMIT SENSOR F/ FREEDOM	—
1	EA	69235	100520-01 CONDENSATE TRAP GASKET FOR FREEDOM	—
1	EA	67842	100542-01 OUTDOOR AIR SENSOR F/ FREEDOM	—
1	EA	67516	100996-01 90 DEGREE 60/100MM PP CONCENTRIC ELBOW	—
1	EA	67541	101004-01 VENT ADAPTER, PP TO SS FOR FCM	—
1	EA	66979	101062-01 FAN PRESSURE SWITCH F/ FREEDOM	—
1	EA	69361	101152-01 GCI PC BOILER INTERFACE FOR FREEDOM	—
1	EA	67479	101161-01 78"X60/100MM STRAIGHT PP CONCENTRIC PIPE	—
1	EA	67471	101162-01 39"X80/125MM PP CUTTABLE STRAIGHT PIPE	—
1	EA	67445	101485-01 78"X80/125MM PP STRAIGHT PIPE	—
1	EA	67472	101490-01 90 DEGREE 80/125MM PP ELBOW	—
1	EA	67548	101491-01 45 DEGREE 80/125MM PP ELBOW	—
1	EA	67565	101494-01 80/125MM PP HORIZ TERM W/ WALL PLATE	—
1	EA	67580	101495-01 80/125MM PP VERT TERM W/ INLET RING	—
1	EA	67767	101497-01 80/125MM PP 20-40 DEGREE SLPD ROOF FLASH	—
1	EA	67771	101498-01 80/125MM PP SUPPORT BAND	—
1	EA	67766	101496-01 80/125MM PP FLT ROOF FLASH FOR VERT TERM	—

**Burnham** Alpine Gas-Fired, High Efficiency, Condensing Boiler

AMERICA'S BOILER COMPANY  
Burnham Corporation



- 95% AFUE
- Stainless steel heat exchanger for use with natural or propane gas
- Full modulating boiler operating controls
- Modern, appliance-like design with gas, water, and electric connections on the left side
- Polypropylene condensate trap with integral float switch
- Stackable for modular applications
- CPVC/PVC venting

**Product Specifications**

Model No.	Input (MBH)		Output (MBH)	Net I=B=R (MBH)	AFUE (%)	Intake Size (In.)	Vent Size (In.)	Shipping Weight (Lbs.)
	Min. To 2k ft.	Max. 0-7k ft.						
ALP080	16	80	73	63	95	3	3	137
ALP105	21	105	96	83	95	3	3	155
ALP150	30	150	137	119	95	4	3	182
ALP210	42	210	193	168	95	4	3	206
ALP399	80	399	377*	328	94.1/94.5**	4	4	304
ALP500	100	500	475	413	95**	4	4	375

\*Gross output

\*\*Thermal/Combustion efficiency.

**Maximum Vent Lengths**

# of 90° Elbows	2	4	6	8	10	12
Combined Intake/Vent - Feet of Pipe	110	100	90	80	70	60

**Prices Available on Request**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	62221	ALP080F-L02 80,000 BTUH ALPINE BOILER
1	EA	62222	ALP105F-L02 105,000 BTUH ALPINE BOILER
1	EA	62223	ALP150F-L02 150,000 BTUH ALPINE BOILER
1	EA	62224	ALP210F-L02 210,000 BTUH ALPINE BOILER
1	EA	62234	ALP399F-L07 399,000 BTUH ALPINE BOILER
1	EA	62246	ALP500F-L07 500,000 BTUH ALPINE BOILER

**Burnham** AMERICA'S BOILER COMPANY  
Burnham Corporation **Alpine Gas, Condensing, Water Boiler**



- 96% AFUE
- Sizes 80–210 are wall/floor mounted
- Sizes 285–500 are floor mount only
- Natural/LP gas
- Stainless steel heat exchanger
- Includes vent kit
- Sealed combustion
- Full modulation, 5:1 turndown
- Factory assembled and wired
- Sage 2.1 boiler control with touchscreen display
- Circulator included for sizes 80-285
- 80 PSI MAWP (30# PRV on 80-285, 50# PRV on 399 and 500)
- Suitable for use on combustible flooring, not for installation on carpet
- 5-year parts and labor warranty for all models under 300 MBH

Model No.	Maximum Input (MBH)	Minimum Input (MBH)	DOE Heating Capacity (MBH)*	I=B=R Net Ratings (MBH)	AFUE (%)	Std. Vent Size (In.)	Std. Intake Size (In.)	Approx. Shipping Weight (Lbs.)
ALP080	80	16	75	63	96	3	3	137
ALP105	105	21	98	83	96	3	3	155
ALP150	150	30	140	120	96	3	4	182
ALP210	210	42	194	169	96	3	4	206
ALP285	285	57	265	230	96	4	4	256

\* Gross output on ALP399 and ALP500

**Prices Available on Request**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	62272	ALP080F-2G02 80,000 BTUH ALPINE BOILER W/PUMP
1	EA	62273	ALP105F-2G02 105,000 BTUH ALPINE BOILER W/PUMP
1	EA	62274	ALP150F-2G02 150,000 BTUH ALPINE BOILER W/PUMP
1	EA	62275	ALP210F-2G02 210,000 BTUH ALPINE BOILER W/PUMP
1	EA	62276	ALP285F-2G02 285,000 BTUH ALPINE BOILER W/PUMP



# Burnham® Series 2 Hot Water Gas Boiler with Vent Damper

AMERICA'S BOILER COMPANY  
Burnham Corporation



- Cast iron sections with large waterways and water content provide better heat transfer and long life expectancy.
- Gas Ignition system: Honeywell Smart Valve II or Standing Pilot.
- Circulating pump not mounted.
- Vent Damper and Draft Diverter packet inside boiler carton.
- Stainless steel burners have a longer life expectancy and are rust resistant.
- Step-open gas valve provides smooth ignition, eliminates noise, and prevents flame rollout on light-off.
- Approved for installation on combustibile flooring.
- Controls mounted up-front make installation in extra tight areas easier.

Model No.	DOE Heating Capacity MBH	I=B=R Net Water Rating MBH	AFUE%	
			Standing Pilot & Vent Damper	EI Controls & Vent Damper
203	52	45.0	80.0	82.6
204	80	70.0	80.1	82.3
205	108	94.0	80.2	82.0
206	136	118.0	80.3	81.7
207	163	142.0	80.4	81.4
208	191	166.0	80.0	81.2
209	218	190.0	80.0	80.9
210	244	212.0	80.0	80.6

## Standing Pilot Models

Prices Available on Request

BTU Input	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
62,000	1	EA	67150	203NCL-GEI2 NAT 24V WTR BOILER W/DAMPER
96,000	1	EA	67151	204NCL-GEI2 NAT 24V WTR BOILER W/DAMPER
130,000	1	EA	67152	205NCL-GEI2 NAT 24V WTR BOILER W/DAMPER
164,000	1	EA	67153	206NCL-GEI2 NAT 24V WTR BOILER W/DAMPER
198,000	1	EA	67154	207NCL-GEI2 NAT 24V WTR BOILER W/DAMPER
232,000	1	EA	67155	208NCL-GEI2 NAT 24V WTR BOILER W/DAMPER
266,000	1	EA	67156	209NCL-GEI2 NAT 24V WTR BOILER W/DAMPER
299,000	1	EA	67157	210NCL-GEI2 NAT 24V WTR BOILER W/DAMPER

DOE heating capacity and annual efficiency are based on U.S. Government standard tests.

## Vent Dampers

Fits Following Boiler Size	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
203	1	EA	65240	8116321(8116314) (RVGP-PC-4-BKF) 4" DAMPER	—
204	1	EA	65241	8116322(8116315) (RVGP-PC-5-BKF) 5" DAMPER	—
205, 206	1	EA	65242	8116323(8116316) (RVGP-PC-6-BKF) 6" DAMPER	—
207, 208	1	EA	65243	8116324(8116317) (RVGP-PC-7-BKF) 7" DAMPER	—
209, 210	1	EA	65244	8116325(8116147) (RVGP-PC-8-BKF) 8" DAMPER	—

## **Burnham** Natural to L.P. Conversion Kits

AMERICA'S BOILER COMPANY  
Burnham Corporation

### For Use on Series 2 Boilers with 1" Stainless Steel Lanced Burners 24V Standing Pilot Models

Fits Following Boiler Size	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
203NCL	1	EA	67192	6231720302 SERIES 2 CONV KIT	—
204NCL	1	EA	67193	6231720402 SERIES 2 CONV KIT	—
205NCL	1	EA	67194	6231720502 SERIES 2 CONV KIT	—
206NCL	1	EA	67195	6231720602 SERIES 2 CONV KIT	—
207NCL	1	EA	67196	6231720702 SERIES 2 CONV KIT	—
208NCL	1	EA	67197	6231720802 SERIES 2 CONV KIT	—
209NCL	1	EA	67198	6231720902 SERIES 2 CONV KIT	—
210NCL	1	EA	67199	6231721002 SERIES 2 CONV KIT	—

### Electronic Ignition Models (with S8600 EI System)

203 NIL	1	EA	67259	623172031622 SERIES 2 CONV KIT	—
204 NIL	1	EA	67260	100559-01 SERIES 2 CONV KIT	—
205 NIL	1	EA	67261	623172051622 SERIES 2 CONV KIT	—
206 NIL	1	EA	67262	623172061622 SERIES 2 CONV KIT	—
207 NIL	1	EA	67263	623172071622 SERIES 2 CONV KIT	—
208 NIL	1	EA	67264	623172081622 SERIES 2 CONV KIT	—
209 NIL	1	EA	67265	623172091622 SERIES 2 CONV KIT	—
210 NIL	1	EA	67266	623172101622 SERIES 2 CONV KIT	—

### For Use on Revolution Boilers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	67143	6230603101 RV3 CONVERSION KIT	—
1	EA	67144	6230604101 RV4 CONVERSION KIT	—
1	EA	67145	6230605101 RV5 CONVERSION KIT	—
1	EA	67146	6230606101 RV6 CONVERSION KIT	—
1	EA	67147	6230607101 RV7 CONVERSION KIT	—

## **Burnham** Series PVG Power Vent Gas Boiler

AMERICA'S BOILER COMPANY  
Burnham Corporation



The PVG features a newly engineered cast iron heat exchanger that is the heart of the system. It incorporates more heating surface and directional flow technology allowing the boiler to reach 85% + AFUE.

Model No.	A.G.A. Input MBH (1)	D.O.E. Heating Cap. MBH	I=B=R Net Rating MBH (2)	AFUE % Power Vent (Thru-the-Wall)	Shipping Weight
PVG3	70	60	52	85.5	210
PVG4	105	90	78	85.4	254
PVG5	140	120	104	85.3	298
PVG6	175	150	130	85.2	342

(1) A.G.A. ratings shown are for installations at sea level and elevations up to 2,000 ft. For elevations above 2,000 ft. A.G.A. ratings should be reduced at the rate of 4% for each 1,000 ft. above sea level.

(2) Net I=B=R ratings shown are based on normal I=B=R piping and pick-up allowance of 1.15. Consult Burnham for installations having unusual piping and pick-up requirements such as intermittent system of operation, extensive piping system, etc.

### Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	65113	PVG3NI-GS NAT EI WTR BOILER
1	EA	65114	PVG4NI-GS NAT EI WTR BOILER
1	EA	65115	PVG5NI-GS NAT EI WTR BOILER
1	EA	65116	PVG6NI-GS NAT EI WTR BOILER



# Series 3 Gas Fired, Natural Draft, Cast Iron Water Boiler

Features Burnham IQ Control System™



- 84% AFUE
- Natural or LP gas
- Reliable cast iron G3 heat exchanger
- Integral draft diverter
- Simple to install and service
- Step opening gas valve
- G3 base
- Attractive, modern, insulated, powder coated steel jacket

Model Number	Input (MBH)	DOE Heating Capacity (MBH)	I=B=R Water Ratings (MBH)	AFUE %	Dimensions (H x W x D) (In.)	Electrical Requirements*
303	70	59	51	84.0	41 x 12-3/4 x 33	<2 Amps
304	105	88	77	84.0	41 x 15-1/2 x 33	<2 Amps
305	140	118	102	84.0	41 x 18-1/2 x 33	<2 Amps
306	175	147	128	84.0	41 x 21-1/2 x 33	<2 Amps
307	210	176	153	84.0	41 x 24-3/4 x 33	<2 Amps
308	245	206	179	84.0	41 x 24-3/4 x 33	<2 Amps
309	280	235	205	84.0	41 x 30-3/4 x 33	<2 Amps

\* Requirement for controls only, add for amp draw of circulators.

## Boilers

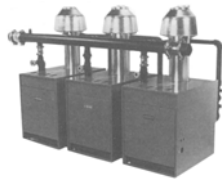
Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	87400	303NI-G 70,000 NAT EI WTR BOILER
1	EA	87401	304NI-G 105,000 NAT EI WTR BOILER
1	EA	87402	305NI-G 140,000 NAT EI WTR BOILER
1	EA	87403	306NI-G 175,000 NAT EI WTR BOILER
1	EA	87404	307NI-G 210,000 NAT EI WTR BOILER
1	EA	87405	308NI-G 245,000 NAT EI WTR BOILER
1	EA	87406	309NI-G 280,000 NAT EI WTR BOILER

## Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	87410	102714-01 IQ LWCO MANUAL RESET OPTION CARD FOR SERIES 3	—
1	EA	87409	102720-01 IQ HI LIMIT MANUAL RESET OPTION CARD FOR SERIES 3	—
1	EA	87411	102723-01 IQ OUTDOOR RESET OPTION CARD FOR SERIES 3	—
1	EA	87408	102728-01 3.5 INCH TOUCH SCREEN DISPLAY FOR SERIES 3 BOILER	—
1	EA	87407	102773-01 LP KIT FOR SERIES 3 ALL SIZES	—

**Burnham** Series 8H Hot Water Gas Boilers  
AMERICA'S BOILER COMPANY  
 Burnham Corporation



A versatile unit, the Series 8H atmospheric gas fired boiler satisfies commercial jobs either in a single or modular boiler arrangement. Burnham's Series 8H is furnished with all controls, accessories, and instructions to make single and multiple boiler installations simple. The compact design and minimum side clearances also facilitate boiler room layouts.

**Standard Equipment**

- Section assembly.
- Insulated deluxe jacket.
- 100% shut-off gas controls
- ASME safety relief valve.
- Pressure temperature gauge.
- Boiler drain cock.
- 24V gas valve transformer and junction box.
- Aluminized steel burners.
- Drafthood.
- High limit control.
- Low water cut-off (808B, 809B, 810B only).
- "K" Models are shipped with sections assembled and mounted on steel base with manifold and burners installed. Controls, trim, and jacket are shipped separately.

Model No.	Gas Input MBH	Gross Output MBH	I=B=R MBH	Combustion Efficiency
K-805	252	210	183	83.2
K-806	315	262	228	83.1
K-807	374	311	270	83.2
K-808	433	360	313	83.3
K-809	491	409	356	83.4
K-810	550	459	399	83.4

**Prices Available on Request**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	65523	K805NEI-E2 NAT WTR BOILER
1	EA	65193	K806NEI-L2 NAT WTR BOILER
1	EA	65194	K807NEI-L2 NAT WTR BOILER
1	EA	65138	K808NEI-L2 NAT WTR BOILER
1	EA	65139	K809NEI-L2 NAT WTR BOILER
1	EA	65140	K810NEI-L2 NAT WTR BOILER

**Burnham** Series 8H Boilers  
AMERICA'S BOILER COMPANY  
 Burnham Corporation  
**Creating a Tandem Modular System**

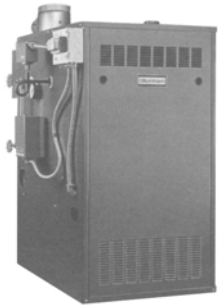
The Burnham Tandem™ modular boiler system puts the efficiency, cost, and service advantage of compact gas boilers to work in space heating applications where a single commercial boiler would not be practical for reasons of budget or accessibility. The tandem system utilizes primary-secondary piping to maximize energy efficiency. Capacities start at 422 MBH.

Model No.	Gas Input MBH	Gross Output MBH	I=B=R MBH	Combustion Efficiency
K-805	252	210	183	83.2
K-806	315	262	228	83.1
K-807	374	311	270	83.2
K-808	433	360	313	83.3
K-809	491	409	356	83.4
K-810	550	459	399	83.4



# Independence Cast Iron Gas Fired Boilers

## Steam or Hot Water



The Independence gas-fired steam or hot water boiler offers several benefits to the homeowner, including safety, comfort, dependability, and quality cast-iron construction.

The boiler is available in 7 heating capacities, from 51 to 231 MBH and can be used for natural gas or LP gas. Built-in safety systems provide homeowners residential security and confidence.

### Semi-Pak Standard Equipment

- Section assembly
- Insulated deluxe jacket
- Base-burner manifold assembly
- Flame Roll-out Switch (FRS)
- Gas control assembly
- Pilot assembly
- Canopy
- Rear drafthood
- Blocked Vent Switch (BVS)
- Vent Damper

### Trim Packages

For a complete boiler package order a boiler, a trim package (#65229, 65239, or 65254), and a Low Water Cutoff (#65480).

#### #65229 EZS Control/Trim Pkg. for Steam System

Equipment furnished: PA-404A high limit, 24V transformer; 67BC-7 float type low water cut-off; 4" J-Box; ASME 15 PSI safety relief valve; steam gauge; gauge glass and fittings; 3/4" drain cock; wiring harness; thermostat isolating relay.

#### #65239 SC Control Set for Steam System

Controls Furnished: PA-404A high limit, 24 V transformer; 4" J-box; thermostat isolating relay.

#### #65254 STR Trim Set for Steam System

Equipment furnished: Steam gauge; ASME 15 PSI safety relief valve; gauge glass set; 3/4" drain cock; plugs, bushings; for all size steam boilers.

### Semi-Pak, Completely Factory Assembled, Add Trim and Controls

Model No.	A.G.A. Input MBH	D.O.E. Heating Cap. MBH	I=B=R Rating			AFUE		Approx. Shipping Weight Lbs.
			Water MBH	Steam MBH	Steam Sq. Ft.	24V		
						Water	Steam	
IN3	62	51	44	38	158	81.0	80.0	350
IN4	105	87	76	65	271	81.3	80.0	420
IN5	140	115	100	86	358	81.6	80.3	485
IN6	175	144	125	108	450	81.8	80.6	555
IN7	210	173	150	130	542	82.1	80.9	620
IN8	245	202	176	152	633	81.1	80.0	690
IN9	280	231	201	174	725	81.4	80.3	760

### Cast Iron Steam Boilers with Standing Pilot

(Water trim control cartons available upon request.)

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	65514	SIN3LNC-LE2 NAT 24V STEAM/WATER BOILER W/DIVERTER
1	EA	65515	SIN4LNC-LE2 NAT 24V STEAM/WATER BOILER W/DIVERTER
1	EA	65516	SIN5LNC-LE2 NAT 24V STEAM/WATER BOILER W/DIVERTER
1	EA	65517	SIN6LNC-LE2 NAT 24V STEAM/WATER BOILER W/DIVERTER
1	EA	65518	SIN7LNC-LE2 NAT 24V STEAM/WATER BOILER W/DIVERTER
1	EA	65519	SIN8LNC-LE2 NAT 24V STEAM/WATER BOILER W/DIVERTER
1	EA	65538	SIN9LNC-LE2 NAT 24V STEAM/WATER BOILER W/DIVERTER

### Accessories for Independence Boilers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65229	60110023 EZS STEAM CONTROL & TRIM PKG	—
1	EA	65239	60110080 SC STEAM CONTROL PKG	—
1	EA	65254	60510031 STR STEAM TRIM PKG	—
1	EA	65480	67 LOW WATER CUT-OFF LOW WATER CUTOFF	—

**Burnham** V-8 Series Oil Boilers  
AMERICA'S BOILER COMPANY  
 Burnham Corporation  
**For Hot Water Applications**



The V8 is an oil-fired boiler designed for quiet operation and efficient service. It is versatile and is intended for installation in a wide variety of home styles and sizes.

**Key Features**

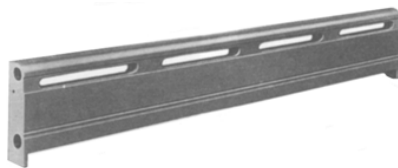
- Double articulating swing door
- Energy Star compliant
- ISO-Quiet burner
- Multiple firing rates
- Natural draft
- Oil-fired
- Water or steam
- Cast-iron sectional design

Model No.	Burner Capacity	DOE Heating Capacity MBH	I=B=R Net Rating Water MBH	DOE Annual Efficiencies	Depth Less Burner	Flue Size (In.)	Height	Width	Overall Depth	Weight	Pump
V-83	1.05	123	107	82.6	17-1/8	6	32-1/4	24	32-1/2	542	1-1/2
V-84	1.35	159	138	83.2	22-1/8	6	32-1/4	24	37-1/2	634	1-1/2
V-85	1.65	196	170	83.9	27-1/8	7	32-1/4	24	42-1/2	726	1-1/2
V-86	1.90	227	197	84.6	32-1/8	7	32-1/4	24	47-1/2	818	1-1/2

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	65291	PV83WC-GBWN OIL BOILER
1	EA	65292	PV84WC-GBWN OIL BOILER
1	EA	65296	PV85WC-GBWN OIL BOILER
1	EA	65303	PV86WC-GBWN OIL BOILER

**Burnham** Baseray®  
AMERICA'S BOILER COMPANY  
 Burnham Corporation  
**The Original Cast Iron Baseboard**



Baseray is the original cast iron radiant baseboard. It is designed to be inconspicuous but effective. In fact, Baseray's design enables heat to be disbursed in both horizontal and vertical directions. Its cast iron construction provides radiant heat, lifetime durability, and dependability. Baseray assemblies up to and including 6 lineal feet are shipped in one piece. Longer assemblies are shipped in two or more pieces of sub-assemblies, none of which exceeds 6 lineal feet.



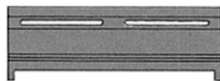
Left End Sections  
18" or 24"



Intermediate



Right End Sections



Panel

Flow Rate	Steam Rating	Water Ratings BTUH Per Lineal Foot at Average Water Temperatures Indicated							
		BTH/Hr. at							
Lbs./Hr.	Sq. Ft.	215° F	170° F	180° F	190° F	200° F	210° F	220° F	230° F
2000	3.40	820	550	620	690	750	810	880	940
500	3.40	820	520	590	650	710	770	830	890

Please contact your G.W. Berkheimer representative for pricing and availability.



**Parts for XG-2000 Series**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65416	6116056 INDUCED DRAFT FAN	—
1	EA	65191	6236021 PENN COMPLETE EI PILOT ASSY	—
1	EA	65197	80160032 THERMAL CUT-OFF RD226	—
1	EA	65198	80160044 FLAME ROLL OUT SWITCH	—
1	EA	65215	80160190 PRESSURE SWITCH F/EG2004-5-6	—
1	EA	67574	80160402 AQUASTAT	—
1	EA	65196	8136078 VIZLOGIC MODULE	—
1	EA	65209	8236050 PENN EI PILOT BRNR L/SENSOR	—
1	EA	67131	8236099 MAIN BURNER	—

**Parts for 2-A Series**

1	EA	65202	100189-01 (80160156) L4080D HIGH LIMIT	—
1	EA	65219	100282-01 (8056164U) TEMPERATURE/PRESSURE GAUGE	—
1	EA	67120	6016058 BLOCKED VENT SWITCH	—
1	EA	65198	80160044 FLAME ROLL OUT SWITCH	—
1	EA	65224	80160155U R8285D TRANSFORMER RELAY	—
1	EA	65213	81660161 3/4" NAT VR8304P4306 EI GAS VALVE	—
1	EA	67129	8236072 PILOT ASSY	—
1	EA	67131	8236099 MAIN BURNER	—

**Parts for 2-B Series**

1	EA	65202	100189-01 (80160156) L4080D HIGH LIMIT	—
1	EA	65219	100282-01 (8056164U) TEMPERATURE/PRESSURE GAUGE	—
1	EA	67120	6016058 BLOCKED VENT SWITCH	—
1	EA	65462	80160116 (100958-01)S8610M1003 IGNITION MODULE	—
1	EA	65180	81660143 VR8200C3005, 24V, NAT GAS VALVE	—
1	EA	66776	81660145U GAS VALVE	—
1	EA	65263	81660278 3/4" SV9602P4816 SMARTVALVE	—
1	EA	67269	81660180 1/2" VR8204C6018 LP GAS VALVE	—
1	EA	67279	81660181 3/4" VR8304P4280 LP GAS VALVE	—
1	EA	65437	81660183 (81660154) 3/4" VR8300C4134(4027) NAT GAS VLVE	—
1	EA	67280	81660243 1/2" VR8200C6040 LP GAS VALVE	—
1	EA	67281	81660244 3/4" VR8300C4548 LP GAS VALVE	—
1	EA	67570	8236024 THERMOCOUPLE	—
1	EA	65182	8236084 394800-36 IGNITION SENSOR LEAD 36"	—
1	EA	65440	8236097 MAIN BURNER W/PILOT BRACKET	—
1	EA	65444	8236098 MAIN BURNER W/PILOT BRACKET	—
1	EA	67131	8236099 MAIN BURNER	—
1	EA	65438	8236102(8236065) Q350A1644 NAT PILOT ASSY	—
1	EA	65439	8236103(8236022) Q327A1949 NAT PILOT ASSY	—
1	EA	65430	8236106 Q327A1915 LP PILOT ASSY	—
1	EA	65451	8236107(8236081) Q348A1341 LP PILOT ASSY	—
1	EA	67135	8236147 Q3480C1304 NAT PILOT ASSY	—

**Parts for 2-PV Series**

1	EA	65202	100189-01 (80160156) L4080D HIGH LIMIT	—
1	EA	65219	100282-01 (8056164U) TEMPERATURE/PRESSURE GAUGE	—
1	EA	67124	100959-01 S8670E1007 IGN MOD W/PREPURGE	—
1	EA	67120	6016058 BLOCKED VENT SWITCH	—
1	EA	65154	6111714 BLOWER F/203/204PV	—
1	EA	65155	6111715 BLOWER F/205 & 206PV	—
1	EA	65198	80160044 FLAME ROLL OUT SWITCH	—
1	EA	65224	80160155U R8285D TRANSFORMER RELAY	—
1	EA	67269	81660180 1/2" VR8204C6018 LP GAS VALVE	—
1	EA	65444	8236098 MAIN BURNER W/PILOT BRACKET	—
1	EA	67131	8236099 MAIN BURNER	—

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**Parts for 8B Series**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65190	6016016 G775RHA PENN MODULE	—
1	EA	67120	6016058 BLOCKED VENT SWITCH	—
1	EA	65191	6236021 PENN COMPLETE EI PILOT ASSY	—
1	EA	65198	80160044 FLAME ROLL OUT SWITCH	—
1	EA	65462	80160116 (100958-01)S8610M1003 IGNITION MODULE	—
1	EA	65986	80160718 750P-MT-120 LOW WATER CUT-OFF F/HOT WATER	—
1	EA	65461	81660151 7000DERHC NAT GAS VALVE	—
1	EA	65204	81660081 K3A-461T SOLENOID VALVE	—
1	EA	65192	8236040 SENSOR PROBE - PENN	—
1	EA	67129	8236072 PILOT ASSY	—

**Parts for RV Series**

1	EA	65416	6116056 INDUCED DRAFT FAN	—
1	EA	65425	8010601 VS3000 BOILER CIRC CONTROL W/071 SENS	—
1	EA	65340	80160170 DIFF PRESSURE SWITCH FOR RV4	—
1	EA	65343	80160198 DIFF PRESSURE SWITCH FOR RV5-6	—
1	EA	65415	80160197 DIFF PRESSURE SWITCH FOR RV7	—
1	EA	65426	80160219 AT150B1260 TRANSFORMER	—
1	EA	65417	8206012 ORIFICE PLATE GASKET	—
1	EA	65444	8236098 MAIN BURNER W/PILOT BRACKET	—
1	EA	67131	8236099 MAIN BURNER	—
1	EA	67135	8236147 Q3480C1304 NAT PILOT ASSY	—
10	EA	70815	L8148E1299/U AQUA RELAY	—
1	EA	76174	TYPE 071 UNIVERSAL SENSOR	—

**Parts for IN Series**

1	EA	65463	6016067 BLOCKED VENT SWITCH	—
1	EA	65198	80160044 FLAME ROLL OUT SWITCH	—
1	EA	65980	80160720 PS-802-24V LOW WATER CUT-OFF F/STEAM	—
1	EA	65204	81660081 K3A-461T SOLENOID VALVE	—
1	EA	65437	81660183 (81660154) 3/4" VR8300C4134(4027) NAT GAS VLV	—
1	EA	65440	8236097 MAIN BURNER W/PILOT BRACKET	—
1	EA	65444	8236098 MAIN BURNER W/PILOT BRACKET	—
1	EA	67131	8236099 MAIN BURNER	—
1	EA	65438	8236102(8236065) Q350A1644 NAT PILOT ASSY	—
1	EA	65439	8236103(8236022) Q327A1949 NAT PILOT ASSY	—





# CGC/CGSA Series Cast Iron Boilers

## Water and Steam Boilers



### All Boilers Include

- Drafthood
- Automatic vent damper
- Aluminized steel burners
- Blocked vent switch
- Cast iron heat exchanger
- Drain valve
- Flame rollout switch
- Cast iron push nipples
- CGC Series water boilers are shipped less circulating pump. Bell & Gosset and Grundfos pumps are available from G.W. Berkheimer.

### Water Boilers Include

- Pressure/temperature gauge
- 30 PSI relief valve
- Limit control

### Steam Boilers Include

- Pressure limit control
- 15 PSI relief valve
- Low water cutoff
- Gauge glass set
- Pressure gauge
- AGA design certified.
- IBR certified.

### Water Boiler Specifications

Model No.	AGA Input MBH	DOE Heating Capacity	IBR Net Output	AFUE% Std. Pilot with Vent Damper	Flue Dia. (In.)	Pump Conn.	Approx. Weight Lbs.
CGC-20	37.5	31	27	80.0	4	1-1/4	212
CGC-30	62	52	45	80.0	4	1-1/4	254
CGC-40	96	80	70	80.1	5	1-1/4	298
CGC-50	130	108	94	80.2	6	1-1/4	346
CGC-60	164	136	118	80.3	6	1-1/4	408
CGC-70	198	163	142	80.4	7	1-1/4	450
CGC-80	232	191	166	80.4	7	1-1/4	506
CGC-100	299	244	212	80.7	8	1-1/4	608

### Steam Boiler Specifications

Model No.	AGA Input MBH	DOE Heating Capacity	IBR Net Steam MBH	IBR Net Steam Sq. Ft.	AFUE % Std. Pilot with Vent Damper	Flue Dia. (In.)	Approx. Weight Lbs.
CGSA-40	105	86	65	271	80.0	5	370
CGSA-50	140	115	86	358	80.1	6	440
CGSA-60	175	143	107	446	80.2	6	502
CGSA-70	210	172	129	538	80.3	7	566
CGSA-80	245	201	151	629	80.4	7	650

### CGC Series Water Boilers with Standing Pilot

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65960	CG30CNC-LE2 WTR BOILER L/PUMP	—
1	EA	65961	CG40CNC-LE2 WTR BOILER L/PUMP	—
1	EA	65962	CG50CNC-LE2 WTR BOILER L/PUMP	—
1	EA	65963	CG60CNC-LE2 WTR BOILER L/PUMP	—
1	EA	65964	CG70CNC-LE2 WTR BOILER L/PUMP	—
1	EA	65965	CG80CNC-LE2 WTR BOILER L/PUMP	—
1	EA	65971	CG100CNC-LE2 WTR BOILER L/PUMP	—

### CGSA Series Steam Boilers with Standing Pilot

1	EA	65955	CGS40ANC-ME2 STEAM BOILER	—
1	EA	65956	CGS50ANC-ME2 STEAM BOILER	—
1	EA	65957	CGS60ANC-ME2 STEAM BOILER	—
1	EA	65958	CGS70ANC-ME2 STEAM BOILER	—
1	EA	65979	CGS80ANC-ME2 STEAM BOILER	—

### CGC Series Water Boilers with Electric Ignition

1	EA	65978	CG20CNI-LE2 WTR BOILER L/PUMP	—
1	EA	65886	CG30CNI-LE2 WTR BOILER W/EI L/PUMP	—
1	EA	65887	CG40CNI-LE2 WTR BOILER W/EI L/PUMP	—
1	EA	65888	CG50CNI-LE2 WTR BOILER W/EI L/PUMP	—
1	EA	65889	CG60CNI-LE2 WTR BOILER W/EI L/PUMP	—
1	EA	65890	CG70CNI-LE2 WTR BOILER W/EI L/PUMP	—
1	EA	65891	CG80CNI-LE2 WTR BOILER W/EI L/PUMP	—

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**CGSA Series Steam Boilers with Electric Ignition**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65981	CGS40ANI-ME2 STEAM BOILER W/EI	—
1	EA	65982	CGS50ANI-ME2 STEAM BOILER W/EI	—
1	EA	65983	CGS60ANI-ME2 STEAM BOILER W/EI	—
1	EA	65988	CGS70ANI-ME2 STEAM BOILER W/EI	—
1	EA	65989	CGS80ANI-ME2 STEAM BOILER W/EI	—

**Replacement Parts**

1	EA	65240	8116321(8116314) (RVGP-PC-4-BKF) 4" DAMPER	—
1	EA	65241	8116322(8116315) (RVGP-PC-5-BKF) 5" DAMPER	—
1	EA	65242	8116323(8116316) (RVGP-PC-6-BKF) 6" DAMPER	—
1	EA	65243	8116324(8116317) (RVGP-PC-7-BKF) 7" DAMPER	—
1	EA	65244	8116325(8116147) (RVGP-PC-8-BKF) 8" DAMPER	—
1	EA	65980	80160720 PS-802-24V LOW WATER CUT-OFF F/STEAM	—

**LP Kits (Special Order Only)**

1	EA	65920	101122-01 LP KIT FOR CG30C ELECTRONIC IGNITION	—
1	EA	65927	100972-01 LP KIT FOR CG40C ELECTRONIC IGNITION	—
1	EA	65939	101139-01 LP KIT FOR CG50C ELECTRONIC IGNITION	—
1	EA	65941	101779-01 LP KIT FOR CG60C ELECTRONIC IGNITION	—
1	EA	66290	102016-01 LP KIT FOR CG70C ELECTRONIC IGNITION	—
1	EA	66376	101002-01 LP KIT FOR CG30C STANDING PILOT	—
1	EA	66384	100791-01 LP KIT FOR CG40C STANDING PILOT	—
1	EA	66508	100792-01 LP KIT FOR CG50C STANDING PILOT	—
1	EA	66652	100969-01 LP KIT FOR CG60C STANDING PILOT	—



## LGB Atmospheric Gas Boilers



- 81% operating efficiency saves energy. The LGB is the highest efficiency cast iron atmospheric gas boiler available. Exceeds efficiency requirements of ASHRAE 90.1.
- Cast iron sections for corrosion resistance and long life.
- Compact design saves valuable space. Unit is only 50-3/8" high, allowing more headroom for piping and venting.
- Patented section sealing method. Short draw rods and sealing rope speed section assembly to reduce installation time.
- Extra-large 9" top port opening forms an internal header for better water circulation. Large steaming area assures rapid generation of dry steam.
- Simplified piping. The largest LGB steam boiler requires only two risers.
- AGA design certified for natural and propane gas. Ratings approved by The Hydronics Institute Division of GAMA (I=B=R) for natural and propane gas. (GW Berkheimer stocks natural gas models only.)
- Factory assembled gas train located within the boiler jacket. All LGB-6 through -23 boilers are capable of low-high-low or staged firing with an additional operating limit control.
- Factory-assembled base and burners reduce installation time.
- Built-in air separator in water boilers. Air is diverted to the expansion tank through a 1" tapping next to supply outlet.
- Steel jacket with durable powdercoat finish. Completely insulated. Designed for fast installation.
- 10 year limited warranty covers cast iron sections.
- 1 year parts warranty.

### Ratings

Model No.	C.S.A Input MBH	C.S.A. Gross Output MBH	Net I=B=R Rating				LGB Tappings			Draft Hood Outlet(s)	
			Steam MBH	Steam Sq. Ft.	Water MBH	Boiler H.P.	Supply (In.)	Return (In.)	Approx. Shipping Weight (Lbs.)	Qty.	Size (In.)
LGB-4	400	324.0	243	1,013	282	9.7	2 to 6	2 to 5	1,185	1	10
LGB-5	520	421.2	316	1,317	366	12.6	2 to 6	2 to 5	1,455	1	12
LGB-6	650	526.5	395	1,645	458	15.7	2 to 6	2 to 5	1,725	1	12
LGB-7	780	631.8	474	1,975	549	18.9	2 to 6	2 to 5	2,005	1	12
LGB-8	910	737.1	553	2,305	641	22.0	2 to 6	2 to 5	2,290	1	14
LGB-9	1,040	842.4	632	2,635	733	25.2	2 to 6	2 to 5	2,560	1	14
LGB-10	1,170	947.7	711	2,965	824	28.3	2 to 6	2 to 5	2,800	1	16
LGB-11	1,300	1,053.0	790	3,290	915	31.5	2 to 6	2 to 5	3,105	1	16
LGB-12	1,430	1,158.3	869	3,620	1,007	34.6	2 to 6	2 to 5	3,365	1	16
LGB-13	1,560	1,263.6	949	3,955	1,099	37.8	2 to 6	2 to 5	3,785	2	12
LGB-14	1,690	1,368.9	1,035	4,313	1,190	40.9	2 to 6	2 to 5	4,085	2	1 - 12 1 - 14
LGB-15	1,820	1,474.2	1,123	4,679	1,282	44.0	2 to 6	2 to 5	4,355	2	14
LGB-16	1,950	1,579.5	1,211	5,046	1,373	47.2	2 to 6	2 to 5	4,725	2	14
LGB-17	2,080	1,684.8	1,298	5,408	1,465	50.3	2 to 6	2 to 5	4,975	2	14
LGB-18	2,210	1,790.1	1,386	5,775	1,557	53.5	2 to 6	2 to 5	5,270	2	1 - 14 1 - 16
LGB-19	2,340	1,895.4	1,470	6,125	1,648	56.6	2 to 6	2 to 5	5,540	2	16
LGB-20	2,470	2,000.7	1,553	6,471	1,740	59.8	2 to 6	2 to 5	5,820	2	16
LGB-21	2,600	2,106.0	1,635	6,813	1,831	62.9	2 to 6	2 to 5	6,080	2	16
LGB-22	2,730	2,211.3	1,717	7,154	1,923	66.1	2 to 6	2 to 5	6,365	2	16
LGB-23	2,860	2,316.6	1,799	7,496	2,014	69.2	2 to 6	2 to 5	6,625	2	16

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**Water Boilers**

**Prices Available on Request**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION
1	EA	851	LGB-4-WN5 400 MBTU INPUT BOILER W/WATER TRIM
1	EA	853	LGB-5-WN5 520 MBTU INPUT BOILER W/WATER TRIM
1	EA	855	LGB-6-WN5 650 MBTU INPUT BOILER W/WATER TRIM
1	EA	857	LGB-7-WN5 780 MBTU INPUT BOILER W/WATER TRIM
1	EA	859	LGB-8-WN5 910 MBTU INPUT BOILER W/WATER TRIM
1	EA	861	LGB-9-WN5 1040 MBTU INPUT BOILER W/WATER TRIM
1	EA	863	LGB-10-WN5 1170 MBTU INPUT BOILER W/WATER TRIM
1	EA	865	LGB-11-WN5 1300 MBTU INPUT BOILER W/WATER TRIM
1	EA	867	LGB-12-WN5 1430 MBTU INPUT BOILER W/WATER TRIM
1	EA	869	LGB-13-WN5 1560 MBTU INPUT BOILER W/WATER TRIM
1	EA	871	LGB-14-WN5 1690 MBTU INPUT BOILER W/WATER TRIM
1	EA	873	LGB-15-WN5 1820 MBTU INPUT BOILER W/WATER TRIM
1	EA	875	LGB-16-WN5 1950 MBTU INPUT BOILER W/WATER TRIM
1	EA	877	LGB-17-WN5 2080 MBTU INPUT BOILER W/WATER TRIM
1	EA	879	LGB-18-WN5 2210 MBTU INPUT BOILER W/WATER TRIM
1	EA	881	LGB-19-WN5 2340 MBTU INPUT BOILER W/WATER TRIM
1	EA	883	LGB-20-WN5 2470 MBTU INPUT BOILER W/WATER TRIM
1	EA	885	LGB-21-WN5 2600 MBTU INPUT BOILER W/WATER TRIM
1	EA	887	LGB-22-WN5 2730 MBTU INPUT BOILER W/WATER TRIM
1	EA	889	LGB-23-WN5 2860 MBTU INPUT BOILER W/WATER TRIM

**Steam Boilers**

1	EA	850	LGB-4-SN5 400 MBTU INPUT BOILER W/STEAM TRIM
1	EA	852	LGB-5-SN5 520 MBTU INPUT BOILER W/STEAM TRIM
1	EA	854	LGB-6-SN5 650 MBTU INPUT BOILER W/STEAM TRIM
1	EA	856	LGB-7-SN5 780 MBTU INPUT BOILER W/STEAM TRIM
1	EA	858	LGB-8-SN5 910 MBTU INPUT BOILER W/STEAM TRIM
1	EA	860	LGB-9-SN5 1040 MBTU INPUT BOILER W/STEAM TRIM
1	EA	862	LGB-10-SN5 1170 MBTU INPUT BOILER W/STEAM TRIM
1	EA	864	LGB-11-SN5 1300 MBTU INPUT BOILER W/STEAM TRIM
1	EA	866	LGB-12-SN5 1430 MBTU INPUT BOILER W/STEAM TRIM
1	EA	868	LGB-13-SN5 1560 MBTU INPUT BOILER W/STEAM TRIM
1	EA	870	LGB-14-SN5 1690 MBTU INPUT BOILER W/STEAM TRIM
1	EA	872	LGB-15-SN5 1820 MBTU INPUT BOILER W/STEAM TRIM
1	EA	874	LGB-16-SN5 1950 MBTU INPUT BOILER W/STEAM TRIM
1	EA	876	LGB-17-SN5 2080 MBTU INPUT BOILER W/STEAM TRIM
1	EA	878	LGB-18-SN5 2210 MBTU INPUT BOILER W/STEAM TRIM
1	EA	880	LGB-19-SN5 2340 MBTU INPUT BOILER W/STEAM TRIM
1	EA	882	LGB-20-SN5 2470 MBTU INPUT BOILER W/STEAM TRIM
1	EA	884	LGB-21-SN5 2600 MBTU INPUT BOILER W/STEAM TRIM
1	EA	886	LGB-22-SN5 2730 MBTU INPUT BOILER W/STEAM TRIM
1	EA	888	LGB-23-SN5 2860 MBTU INPUT BOILER W/STEAM TRIM



# LGB Boiler Components

## Boiler Components

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	68428	313-300-109 LEFT END SECTION	—
1	EA	68429	313-300-110 INTERMEDIATE SECTION	—
1	EA	68431	313-300-111 RIGHT END SECTION	—
1	EA	68438	383-300-003 A-4 BOX	—
1	EA	68462	383-300-004 A-5 BOX	—
1	EA	68465	383-300-005 A-A BOX	—
1	EA	68466	383-300-010 A-B BOX	—
1	EA	68467	383-300-015 A-C BOX	—
1	EA	68487	383-300-020 A-D BOX	—
1	EA	68490	383-300-025 A-E BOX	—
1	EA	68499	383-300-030 A-F BOX	—
1	EA	68508	383-300-035 A-G BOX	—
1	EA	68943	383-300-110 LGB SPECIAL CONTROLS	—
1	EA	68944	383-300-114 WATER TRIM 4&5	—
1	EA	68945	383-300-115 WATER TRIM 6-9	—
1	EA	68897	383-300-258 5" W.C. CONTROLS 4&5	—
1	EA	68898	383-300-260 5" W.C. CONTROLS A&B	—
1	EA	68899	383-300-262 5" W.C. CONTROLS C&D	—
1	EA	68915	383-300-264 5" W.C. CONTROLS E	—
1	EA	68916	383-300-266 5" W.C. CONTROLS F&G	—
1	EA	68917	383-300-268 5" W.C. CONTROLS H	—
1	EA	68929	383-300-270 5" W.C. CONTROLS I	—
1	EA	68931	383-300-272 5" W.C. CONTROLS J	—
1	EA	68932	383-300-274 5" W.C. CONTROLS K	—
1	EA	68933	383-300-276 5" W.C. CONTROLS M	—
1	EA	68934	383-300-278 5" W.C. CONTROLS N	—
1	EA	68942	383-300-280 5" W.C. CONTROLS O	—
1	EA	68577	383-300-038 SIZE 4 BASE ASSEMBLY	—
1	EA	68578	383-300-039 SIZE 5 BASE ASSEMBLY	—
1	EA	68600	383-300-040 SIZE A BASE ASSEMBLY	—
1	EA	68601	383-300-045 SIZE B BASE ASSEMBLY	—
1	EA	68604	383-300-050 SIZE C BASE ASSEMBLY	—
1	EA	68605	383-300-055 SIZE D BASE ASSEMBLY	—
1	EA	68606	383-300-060 SIZE E BASE ASSEMBLY	—
1	EA	68607	383-300-065 SIZE F BASE ASSEMBLY	—
1	EA	68620	383-300-070 SIZE G BASE ASSEMBLY	—
1	EA	68946	383-300-120 WATER TRIM 10-13	—
1	EA	68947	383-300-125 WATER TRIM 14-20	—
1	EA	68948	383-300-130 WATER TRIM 21-23	—
1	EA	68949	383-300-135 STEAM TRIM 4-7	—
1	EA	68950	383-300-140 STEAM TRIM 8-12	—
1	EA	68951	383-300-145 STEAM TRIM 13-19	—
1	EA	68952	383-300-150 STEAM TRIM 20-23	—
1	EA	68626	383-300-165 END PANEL BASE ASSEMBLY	—
1	EA	68632	413-300-000 (413-300-001) LGB STANDARD JACKET	—
1	EA	68634	413-300-010 LGB-4 JACKET CARTON	—
1	EA	68650	413-300-011 LGB-5 JACKET CARTON	—
1	EA	68652	413-300-002 LGB-S JACKET CARTON	—
1	EA	68699	413-300-003 LGB-T JACKET CARTON	—
1	EA	68702	413-300-004 LGB-U JACKET CARTON	—
1	EA	68720	413-300-005 LGB-V JACKET CARTON	—
1	EA	68723	413-300-006 LGB-W JACKET CARTON	—
1	EA	68731	413-300-007 LGB-X JACKET CARTON	—
1	EA	68734	413-300-008 LGB-Y JACKET CARTON	—
1	EA	68741	413-300-009 LGB JACKET SPLICE CARTON	—
1	EA	68888	443-300-098 DRAFT HOOD 4	—
1	EA	68889	443-300-099 DRAFT HOOD 5	—
1	EA	68890	443-300-100 DRAFT HOOD A	—
1	EA	68891	443-300-101 DRAFT HOOD B	—
1	EA	68892	443-300-102 DRAFT HOOD C	—
1	EA	68893	443-300-103 DRAFT HOOD D	—
1	EA	68894	443-300-104 DRAFT HOOD E	—
1	EA	68895	443-300-105 DRAFT HOOD F	—
1	EA	68896	443-300-106 DRAFT HOOD G	—

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STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	68746	450-019-858 COLLECTOR HOOD 4	—
1	EA	68749	450-019-859 COLLECTOR HOOD 5	—
1	EA	68751	450-019-851 COLLECTOR HOOD A	—
1	EA	68769	450-019-852 COLLECTOR HOOD B	—
1	EA	68771	450-019-853 COLLECTOR HOOD C	—
1	EA	68777	450-019-854 COLLECTOR HOOD D	—
1	EA	68812	450-019-855 COLLECTOR HOOD E	—
1	EA	68824	450-019-856 COLLECTOR HOOD F	—
1	EA	68887	450-019-857 COLLECTOR HOOD G	—
1	EA	68953	511-114-474 #61 LOW WATER CUTOFF (STEAM ONLY)	—

## CSD-1 Components

1	EA	65459	63M LOW WATER CUT-OFF W/MAUAL RESET	—
1	EA	65460	150S-MD HIGH PRESSURE LEVEL CONTROL	—
1	EA	68957	383-300-540 CSD-1 NAT CONTROL PANEL	—
1	EA	68990	510-312-041 L4006E 1000 AQUASTAT	—
1	EA	65986	80160718 750P-MT-120 LOW WATER CUT-OFF F/HOT WATER	—
1	EA	70567	L4079B1033/U PRESSURETROL	—



# CGa-SPDN Atmospheric Gas Packaged Boiler

## Water Only



### Standard Equipment

- Factory tested.
- Insulated extended jacket.
- Built-in air separator.
- Vertical draft hood.\*
- Non-linting pilot burner.
- Stainless steel burners.
- Combination gas valve and regulator.
- Combination relay receptacle and 40 VA transformer.
- Spill switch.\*
- Rollout thermal fuse element.
- High limit temperature control.
- Circulator.
- 30 P.S.I. ASME relief valve (boiler sections tested for 50 P.S.I. working pressure).
- Drain valve.\*
- Automatic vent damper.\*

\* Standard equipment included but not assembled on boiler or wired at factory.

- Combination pressure-temperature gauge.
- Constant burning, thermally supervised pilot.
- Thermocouple.
- LP conversion kit available.

### Draft Hood

- CGA-25 through CGA-6 shipped in crate with boiler.
- CGA-7 and CGA-8 shipped separate from boiler crate.

### Taco Circulator

- Shipped in carton inside of boiler crate for field installation.
- Drain valve and fittings in carton inside of boiler crate.
- 40" circulator harness wired to 2 x 4 junction box mounted to external boiler jacket.

### Ratings

Model No.	A.G.A. Input MBH	% DOE Seasonal Efficiency (AFUE)		DOE Heating Capacity MBH	Net I=B=R Rating MBH	Approximate Shipping Weight (Lbs.)	I=B=R Chimney Size
		Standing Pilot with Damper Nat. Gas (SPDN)					
CGa-25	52	81.5		44	38	200	4" I.D. x 20'
CGa-3	70	81.6		59	51	200	4" I.D. x 20'
CGa-4	105	81.7		88	77	240	5" I.D. x 20'
CGa-5	140	81.8		117	102	280	6" I.D. x 20'
CGa-6	175	81.9		146	127	325	6" I.D. x 20'
CGa-7	210	82.0		175	152	370	7" I.D. x 20'
CGa-8	245	82.1		204	177	425	7" I.D. x 20'

### Series 12, Standing Pilot with Damper, Natural Gas

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	68035	CGA-25-SPDN 52 MBTU INPUT BOILER	—
1	EA	68036	CGA-3-SPDN 70 MBTU INPUT BOILER	—
1	EA	68037	CGA-4-SPDN 105 MBTU INPUT BOILER	—
1	EA	68038	CGA-5-SPDN 140 MBTU INPUT BOILER	—
1	EA	68039	CGA-6-SPDN 175 MBTU INPUT BOILER	—
1	EA	68040	CGA-7-SPDN 210 MBTU INPUT BOILER W/DRAFT HOOD 2 CTNS	—
1	EA	68041	CGA-8-SPDN 245 MBTU INPUT BOILER W/DRAFT HOOD 2 CTNS	—

### CG25 through CG6 LP Kit (For Use with Boiler with Standing Pilot Only)

1	EA	68573	510-811-362 LP GAS CONVERSION KIT	—
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## CGa-PIDN Atmospheric Gas Packaged Boiler Water Only



### Standard Equipment

- Factory tested.
- Insulated extended jacket.
- Built-in air separator.
- Vertical draft hood.\*
- Non-linting pilot burner.
- Stainless steel burners.
- Combination gas valve and regulator.
- Combination relay receptacle and 40 VA transformer.
- Spill switch.\*
- Rollout thermal fuse element.
- High limit temperature control.
- Circulator.
- 30 P.S.I. ASME relief valve (boiler sections tested for 50 P.S.I. working pressure).
- Drain valve.\*
- Automatic vent damper.\*

\* Standard equipment included but not assembled on boiler or wired at factory.

- Combination pressure-temperature gauge.
- Constant burning, thermally supervised pilot.
- Thermocouple.
- LP conversion kit available.

### Draft Hood

- CGA-25 through CGA-6 shipped in crate with boiler.
- CGA-7 and CGA-8 shipped separate from boiler crate.

### Taco Circulator

- Shipped in carton inside of boiler crate for field installation.
- Drain valve and fittings in carton inside of boiler crate.
- 40" circulator harness wired to 2 x 4 junction box mounted to external boiler jacket.

### Ratings—All Models

Model No.	A.G.A. Input MBH	%DOE Seasonal Efficiency (AFUE)	DOE Heating Capacity MBH	Net I=B=R Rating MBH	Approximate Shipping Weight (Lbs.)	I=B=R Chimney Size
		Interm. Ignition with Damper Nat. Gas (PIDN)				
CGa-25	52	84.0	44	38	200	4" I.D. x 20'
CGa-3	70	84.0	59	51	200	4" I.D. x 20'
CGa-4	105	84.0	88	77	240	5" I.D. x 20'
CGa-5	140	83.5	117	102	280	6" I.D. x 20'
CGa-6	175	83.2	146	127	325	6" I.D. x 20'
CGa-7	210	83.0	175	152	370	7" I.D. x 20'
CGa-8	245	82.7	204	177	425	7" I.D. x 20'

### Series 12, Intermittent Ignition with Damper, Natural Gas

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	68042	CGA-25-PIDN 52 MBTU INPUT BOILER	—
1	EA	68043	CGA-3-PIDN 70 MBTU INPUT BOILER	—
1	EA	68044	CGA-4-PIDN 105 MBTU INPUT BOILER	—
1	EA	68045	CGA-5-PIDN 140 MBTU INPUT BOILER	—
1	EA	68046	CGA-6-PIDN 175 MBTU INPUT BOILER	—
1	EA	68047	CGA-7-PIDN 210 MBTU INPUT BOILER W/DRAFT HOOD 2 CTNS	—
1	EA	68048	CGA-8-PIDN 245 MBTU INPUT BOILER W/DRAFT HOOD 2 CTNS	—





## GV90+ Cast Iron Gas Boiler

### Water, Sealed Combustion or Direct Exhaust



#### Factory Tested

- Insulated extended steel jacket
- Cast iron sections with built-in air separator
- Stainless steel secondary heat exchanger with air separator
- Steel base
- Control module with indicator lights
- Blower assembly with observation port
- Gas/air manifold assembly
- Gas/air orifice plate for natural gas (separate plate furnished for conversion to propane)
- Stainless steel burner cone and ring assembly
- Negative regulation gas valve
- Hot surface ignition system
- Air pressure switch

#### System Circulator

- Built-in bypass circulator system with sensor for temperature control
- Condensate drain trap
- Sidewall vent termination kit
- 40VA transformer
- Electrical junction box
- 30 PSI ASME relief valve (boiler sections and secondary heat exchanger tested for 50 PSI working pressure)
- Water temperature limit switch
- Section block temperature limit switch
- Combination pressure-temperature gauge
- Drain valve
- Flue thermal fuse
- Water treatment-inhibitor and test kit

#### Boilers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	87232	GV90+ 3 70 MBH BOILER S1 T-007	—
1	EA	87233	GV90+ 4 105 MBH BOILER S1 T-007	—
1	EA	87234	GV90+ 5 140 MBH BOILER S1 T-007	—
1	EA	87235	GV90+ 6 175 MBH BOILER S1 T-007	—

#### Accessories

1	EA	61120	DCVK-30 HORIZ/VERT CONCENTRIC DUCT KIT 3IN	—
1	EA	87236	383-500-631 CONDENSATE NEUTRALIZER KIT	—



## Ultra Condensing High Efficiency Gas Boilers

### Water Only, Series 3 with Precision Hydronic Data Technology



#### Boiler

- Cast aluminum block
- 30 PSI ASME relief valve
- Drain valve
- Stainless steel burner (80, 105) with woven steel fiber mesh (155, 230, 299 & 399)
- Direct spark ignition
- Variable speed blower assembly
- Venturi mixing system with air silencer
- Negative pressure regulated gas valve
- 50 VA transformer
- Dual scale temp. & pressure gauge
- Outlet water temp. sensor
- Inlet water temp. sensor
- Flue gas temp. sensor
- Outdoor temp. sensor
- System water temp. sensors

#### Boiler Circulators

- 80 & 105: 1" flanges, Taco 007
- 155 & 230: 1" & 1-1/4" flanges, Taco 0014
- 299: 1-1/4" & 1-1/2" flanges, Taco 0014
- 399: 1-1/4" & 1-1/2" flanges, Taco 0013

#### Complete Jacket Assembly with

- Fully removable jacket front
- Adjustable boiler legs
- Sidewall vent/air termination kit
- On/Off power switch
- Line voltage service receptacle
- Condensate trap with drain tee assembly
- Propane conversion orifice (all except model 80)

#### UControl Module

- 3.5" LCD display
- Three boiler priorities with multiple preset system configurations
- Color-coded removable terminal blocks
- Multiple boiler functionality
- Alarm control functionality
- Ignition control
- High limit & modulating temp. control
- Low water protection
- Outdoor reset
- Ability to control any combination of 3 circulators

	Ultra 80	Ultra 105	Ultra 155	Ultra 230	Ultra 299	Ultra 399
CSA Input (Maximum)	80 MBH	105 MBH	155 MBH	230 MBH	310 MBH	399 MBH
CSA Input (Minimum)	16 MBH	21 MBH	31 MBH	46 MBH	62 MBH	80 MBH
DOE Heating Cap.	71 MBH	94 MBH	139 MBH	207 MBH	289 MBH	365 MBH*
Net I=B=R	62 MBH	81 MBH	123 MBH	183 MBH	252 MBH	317 MBH
DOE AFUE	95.2%	95.3%	95.6%	95.4%	96.4%	91.7%*
Vent Size/Material	3 in. PVC	3 in. PVC	3 in. PVC	3 or 4 in. PVC	4 in. PVC	4 in. PVC
Combustion Air Size (In.)	2 or 3	2 or 3	3	3 or 4	4	4
Water Volume (Gal.)	.95	1.07	1.17	1.57	2.10	2.10
Approx. Ship. Weight (Lbs.)	149	154	193	204	25	297
Supply Tapping (In.)	1	1	1	1	1-1/4	1-1/4
Return Tapping (In.)	1	1	1	1	1-1/4	1-1/4
Gas Connection Size (In.)	1/2	1/2	1/2	1/2	3/4	3/4

\* Combustion efficiency

#### Boilers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	87200	ULTRA 80 BOILER SERIES 3	—
1	EA	87201	ULTRA 105 BOILER SERIES 3	—
1	EA	87202	ULTRA 155 BOILER SERIES 3	—
1	EA	87203	ULTRA 230 BOILER SERIES 3	—
1	EA	87205	ULTRA 299 BOILER SERIES 3	—
1	EA	87208	ULTRA 399 BOILER SERIES 3	—

#### Accessories

1	EA	68065	389-900-180 WALL MOUNT KIT	—
1	EA	68066	383-500-080 AM3 ALARM CONTROL KIT	—
1	EA	68753	383-500-125 OUTDOOR SENSOR F/ULTRA BOILER	—
1	EA	87230	383-500-649 1-1/4" ULTRA 80/105 EASY-UP MANIFOLD	—
1	EA	87231	383-500-661 1-1/2" ULTRA 155-399 EASY-UP MANIFOLD	—

#### Propylene Glycol (For Aluminum Cast Block Boilers)

1	EA	95933	35283 5 GAL CRYO-TEK-100AL PROPYLENE GLYCOL	—
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## Aqua Plus Water Heaters



- 316L stainless steel tank welded with "TIG and Plasma" technology coil tank
- Temperature and pressure relief valve standard equipment
- Thermostat connections including boiler supply and return, domestic water and domestic recirculation are on the side of the tank
- Magnesium anode installed in all tanks
- Inspection port on every tank located near the bottom of the tank.
- Exceptional "R Value" with 2" of dense foam insulation
- Adjustable feet for uneven floors
- AHRI Certified

Aqua Plus Model	200F Boiler Water			190F Boiler Water			180F Boiler Water		
	Boiler Out (MBH)	115F DHW (GPH)	140F DHW (GPH)	Boiler Out (MBH)	115F DHW (GPH)	140F DHW (GPH)	Boiler Out (MBH)	115F DHW (GPH)	140F DHW (GPH)
35	170	337	223	170	311	202	150	284	181
45	190	363	243	170	335	222	150	307	200
55	210	443	302	190	411	278	190	378	252
85	300	551	374	250	511	343	250	470	310
105	350	715	483	350	662	442	300	608	400

Aqua Plus Model	35	45	55	85	105
DHW Side Storage (gal)	29.6	39.9	53.1	80.6	109.4
Boiler Side Storage (gal)	1.6	1.9	2.2	2.5	3.5
Recommended Flow Rates (GPM)	8	8	8	14	14
Head Loss-Boiler Side (ft)	2.0	3.3	1.6	5.4	7.1
Working Pressure - Tank (psi)	150 (Maximum)				
Working Pressure - Coil (psi)	145 (Maximum)				
DHW Operating Temp (F)	160*			180	
Approx. Shipping Weight	94	111	122	223	238

\* Optional 180F thermostat available.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	68049	AQUA PLUS - 35 WATER HEATER	—
1	EA	68050	AQUA PLUS - 45 WATER HEATER	—
1	EA	68051	AQUA PLUS - 55 WATER HEATER	—
1	EA	68053	AQUA PLUS - 85 WATER HEATER	—
1	EA	68054	AQUA PLUS - 105 WATER HEATER	—



## Ultra Condensing High-Efficiency Gas Boilers Commercial, Water Only



- Sectional aluminum block
- 30 PSI ASME relief valve
- Stainless steel burner with woven steel fiber mesh
- Direct spark ignition
- Variable speed blower assembly
- Venturi mixing system with air silencer
- Negative pressure regulated gas valve
- 50 VA transformer
- Dual scale temperature and pressure gauge
- Outlet water temp. sensor
- Inlet water temp. sensor
- Flue gas temp. sensor
- Outdoor temp. sensor
- System water temp. sensor
- Integrated drain in vent adapters
- U control module
- Comes setup CSD-1 compliant

Model No.	CSA Input (Max.)	CSA Input (Min.)	CSA Gross Output	Net I=B=R	IBR Thermal	IBR Combustion	Vent Size/Material	Combustion Air Size	Water Volume (Gal.)	Minimum Gas Pressure	Approx. Shipping Wt. (Lbs.)
550	550	110	517	445	93.9%	94.7%	6" PVC	6"	5.5	3.5"	505
750	750	150	702	605	93.6%	94.0%	6" or 8" PVC *	6" or 8" *	6.5	3.5"	550

\* Model 750 extends a maximum of 30 feet at 6", 100 feet at 8".

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	87206	ULTRA 550 COMMERCIAL BOILER	—
1	EA	87207	ULTRA 750 COMMERCIAL BOILER	—



## CGI High Efficiency Gas Induced Draft Boiler Water Only



- Factory tested.
- Insulated steel jacket.
- Built-in air separator.
- Flue gas collector/transition assembly.
- Induced draft blower assembly.
- Wiring harness.
- Combination gas valve for 24V.
- Radiation plates.
- Non-linting pilot burner.
- Aluminized steel burners.
- Intermittent electronic ignition system.
- Combination relay and 40VA transformer.
- Extended electrical junction box.
- Air pressure switch.
- Rollout thermal fuse element.

- High limit temperature control.
- Taco Circulator.
- 30 P.S.I. ASMI: relief valve (boiler sections tested for 50 P.S.I. working pressure)
- Combination pressure-temperature gauge.
- Drain valve.
- LP kit available on request.

**Note:**

- For sidewall venting only use AL29-4C stainless steel vent pipe required for these boilers. Refer to FasNSeal vent material in Section two of this catalog. CGI starter required.
- If venting into a chimney, standard B vent can be used. Refer to installation manual.

**Ratings—All Models (Up to 83.3% AFUE)**

Model No.	A.G.A. Input MBH	DOE Heating Capacity MBH	Net I=B=R Rating MBH	% DOE Seasonal Efficiency (AFUE)	Approximate Shipping Weight (Lbs.)	Chimney Size
CGI-25	50	42	37	83.0	190	4" I.D. x 20'
CGI-3	67	56	49	83.3	190	4" I.D. x 20'
CGI-4	100	84	73	83.0	230	5" I.D. x 20'
CGI-4E*	90	76	66	85.0	245	5" I.D. x 20'
CGI-5	133	111	97	82.7	270	5" I.D. x 20'
CGI-6	167	139	121	82.4	315	5" I.D. x 20'
CGI-7	200	166	144	82.1	360	5" I.D. x 20'

\*Energy Star Rated.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	68103	CGI-25-PIN 50 MBTU INPUT BOILER	—
1	EA	68104	CGI-3-PIN 67 MBTU INPUT BOILER	—
1	EA	87237	CGI-4E-PIN 90 MBTU INPUT BOILER	—
1	EA	68105	CGI-4-PIN 100 MBTU INPUT BOILER	—
1	EA	68106	CGI-5-PIN 120 MBTU INPUT BOILER	—
1	EA	68107	CGI-6-PIN 167 MBTU INPUT BOILER	—
1	EA	68108	CGI-7-PIN 200 MBTU INPUT BOILER	—



# EG-SPDN Atmospheric Gas Boiler

## Water or Steam



- Factory assembled section block.
- Horizontal to vertical draft hood.
- Stainless steel burners.
- Insulated extended jacket.
- Combination gas control valve and regulator.
- Non-linting pilot burner.
- Spill switch (EG-30 through 65).
- Thermal rollout fuse element (EG-30 through 65).
- Automatic vent damper (EG-30 through 65)
- Standing pilot.
- Thermocouple.
- 15 P.S.I. ASME relief valve (steam).
- 30 PSI ASME relief valve (steam).
- High limit pressure control (steam).
- High limit temp. control (water).
- 40 VA transformer.
- Pressure gauge (steam).
- Gauge cocks and glass (steam).
- Probe low water cut-off (steam).
- Knockdown.
- LP kit available, call for information.

**NOTE**

- A.G.A. design certified for installation on non-combustible flooring only.

**Ratings—All Models**

Model No.	A.G.A. Input MBH	% DOE Seasonal Efficiency (AFUE)		DOE Heating Capacity MBH	Net I=B=R Rating		Approximate Shipping Weight (Lbs.)	I=B=R Chimney Size
		Standing Pilot with Damper Nat. Gas (SPDN)			Steam MBH	Stream Sq. Ft.		
		Water	Steam					
EG-30	75	80.7	79.5	61	46	192	410	5" I.D. x 20'
EG-35	100	80.3	79.1	81	61	255	410	5" I.D. x 20'
EG-40	125	80.8	79.8	102	76	317	500	6" I.D. x 20'
EG-45	150	80.6	79.2	122	92	385	500	6" I.D. x 20'
EG-50	175	81.0	80.1	142	107	446	590	7" I.D. x 20'
EG-55	200	80.8	79.3	163	122	510	590	7" I.D. x 20'
EG-65	250	81.0	79.4	203	152	635	680	8" I.D. x 20'
EG-75	300	N.A.	N.A.	240	180	750	755	8" I.D. x 20'

**Series 4, Standing Pilot with Damper,**

**Natural Gas without Tankless Heater Openings**

**Trim Package Required**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	68118	EG-30-SPDN 75 MBTU INPUT BOILER LESS TRIM PKG	—
1	EA	68119	EG-35-SPDN 100 MBTU INPUT BOILER LESS TRIM PKG	—
1	EA	68120	EG-40-SPDN 125 MBTU INPUT BOILER LESS TRIM PKG	—
1	EA	68121	EG-45-SPDN 150 MBTU INPUT BOILER LESS TRIM PKG	—
1	EA	68122	EG-50-SPDN 175 MBTU INPUT BOILER LESS TRIM PKG	—
1	EA	68123	EG-55-SPDN 200 MBTU INPUT BOILER LESS TRIM PKG	—
1	EA	68124	EG-65-SPDN 250 MBTU INPUT BOILER LESS TRIM PKG	—
1	EA	68125	EG-75-SPN 300 MBTU INPUT BOILER LESS TRIM PKG	—

**Trim Packages**

1	EA	68145	381-800-686 STEAM TRIM PKG F/EG30-65	—
1	EA	68146	381-800-675 WATER TRIM PKG F/EG30-65	—
1	EA	68151	381-800-688 STEAM TRIM PK F/EG75	—
1	EA	68152	381-800-677 WATER TRIM PK F/EG75	—



# EG-PIDN Atmospheric Gas Boiler

## Water or Steam



- Factory assembled block
- Cast iron sections
- Built-in air separator
- 30 PSI ASME relief valve (water)
- 15 PSI ASME relief valve (steam)
- Stainless steel burners
- Intermittent electronic ignition
- Automatic vent damper (EG30-65)
- Thermal fuse element (EG30-65)
- Spill switch (EG30-65)
- Combination gas valve and regulator
- High limit pressure control (steam)
- High limit temperature control (steam)
- Combination relay and 40VA transformer (water)
- Gauge cocks and glass (steam)
- Probe low water cut-off (steam)
- Pressure gauge (steam)
- Syphon (steam)
- Insulated extended jacket
- Electrical junction box
- Horizontal to vertical draft hood
- Limited lifetime warranty (water)
- 10 year warranty (steam)

Model	EG-30	EG-35	EG-40	EG-45	EG-50	EG-55	EG-65	EG-75
C.S.A Input (MBH)	75	100	125	150	175	200	250	299
DOE Heating Cap (MBH)	62	83	104	125	145	167	209	247
Net I=B=R Steam (MBH/Sq. Ft.)	47/196	62/258	78/325	94/392	109/454	125/521	157/654	185/750
Net I=B=R Water (MBH)	55	73	91	110	128	146	183	217
AFUE Water (%)	84.3	83.6	84.0	83.5	83.8	83.8	83.0	82.7
AFUE Steam (%)	83.0	83.6	82.9	82.9	82.8	82.8	84.0	82.4
I=B=R Chimney Rect.	5 in. I.D. x 20 ft.		6 in. I.D. x 20 ft.		7 in. I.D. x 20 ft.		8 in. I.D. x 20 ft.	
Supply Tappings	2-3 in. NPT							
Return Tappings	2-2-1/2 in. NPT							
Gas Conn. Size	1/2 in. (Nat. & Propane Gas)						3/4 in. (Nat. & Propane Gas)	
Water Supply & Return (In.)	1		1-1/4			1-1/2		2
Steam Riser & Header (In.)	2		2-1/2			3		
Steam Equalizer (In.)	1-1/2							
Water Volume - Water (Gal.)	12.3		14.8		17.3		19.8	22.3
Water Volume - Steam (Gal.)	8.4		9.8		11.2		12.6	14.0
Approx. Ship Weight (Lbs.)	410	410	500	500	590	590	680	755

**Intermittent Electronic Ignition with Damper\*,  
Natural Gas without Tankless Heater Openings**

**Trim Package Required**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	88300	EG-30-PIDN 75 MBTU INPUT BOILER LESS TRIM PKG	—
1	EA	88301	EG-35-PIDN 100 MBTU INPUT BOILER LESS TRIM PKG	—
1	EA	88302	EG-40-PIDN 125 MBTU INPUT BOILER LESS TRIM PKG	—
1	EA	88303	EG-45-PIDN 150 MBTU INPUT BOILER LESS TRIM PKG	—
1	EA	88304	EG-50-PIDN 175 MBTU INPUT BOILER LESS TRIM PKG	—
1	EA	88305	EG-55-PIDN 200 MBTU INPUT BOILER LESS TRIM PKG	—
1	EA	88306	EG-65-PIDN 250 MBTU INPUT BOILER LESS TRIM PKG	—
1	EA	88307	EG-75-PIN 300 MBTU INPUT BOILER LESS TRIM PKG	—

\*EG-75 Less Damper

### Trim Packages

1	EA	88308	381-800-690 EG30-75 STEAM TRIM PKG PI HYDRO #400	—
1	EA	88309	381-800-679 EG35-75 WATER TRIM PKG PI-TANKLESS	—



# PFG-PIN Atmospheric Gas Packaged Boiler

## Water Only



### Standard Equipment

- Factory tested.
- Insulated extended jacket.
- Built-in air separator.
- Vertical draft hood (shipped in separate carton).\*
- Combination gas valve and regulator.
- Non-linting pilot burner.
- Aluminized steel burner.
- Combination relay receptacle and 40 VA transformer.
- Circulator relay.

- High limit temperature control.
- Spill switch (PFG-5 only).\*
- Rollout thermal fuse element (PFG-5 only).
- 30 P.S.I. ASME relief valve (boiler sections tested for 50 P.S.I. working pressure).\*
- Combination pressure-temperature gauge.\*
- Drain valve.\*

### PIDN

- Intermittent electronic ignition system.
- Automatic vent damper.

### PIN

- Intermittent electronic ignition system.

\* Standard equipment included but not assembled on boiler or wired at factory.

Model No.	A.G.A. Input MBH	A.G.A. Gross Output MBH	Net I=B=R Rating MBH	Approximate Shipping Weight (Lbs.)	I=B=R Chimney Size
<b>Intermittent Ignition with Damper-Natural Gas-AFUE 81.0%-Less Circulator</b>					
PFG-5-PIDN*	244	199	173	550	7" I.D. X 20'

### Intermittent Ignition-Natural Gas-Combustion Efficiency 81.0%-Less Circulator

PFG-6-PIN‡	305	247	215	605	8" I.D. X 20'
PFG-7-PIN‡	366	296	257	690	9" I.D. X 20'
PFG-8-PIN‡	427	346	301	760	9" I.D. X 20'

NOTE: PFG is A.G.A. design certified for installation on non-combustible flooring only.

\* Available for natural gas firing only.

‡ May be equipped with approved automatic vent damper.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	68129	PFG-5-PIDN 3-CTN 244 MBTU INPUT BOILER W/DRAFT HOOD-3 CTNS	—
1	EA	68130	PFG-6-PIN 2-CTN 305 MBTU INPUT BOILER W/DRAFT HOOD-2 CTNS	—
1	EA	68131	PFG-7-PIN 2-CTN 366 MBTU INPUT BOILER W/DRAFT HOOD-2 CTNS	—
1	EA	68132	PFG-8-PIN 2-CTN 427 MBTU INPUT BOILER W/DRAFT HOOD- 2 CTNS	—





# EGH-PIN Atmospheric Gas Boiler

## Water or Steam



- Factory assembled section block.
  - Insulated extended jacket.
  - Horizontal to vertical draft hood.
  - Non-linting pilot burner.
  - Combination gas valve and regulator.
  - Stainless steel burners.
  - 40 VA transformer.
  - Intermittent electronic ignition system.
  - 15 P.S.I. ASME relief valve (steam).
  - High limit pressure control.
  - Probe low water cut-off (steam).
  - Pressure gauge (steam).
  - Gauge cocks and glass (steam).
  - Vent damper can be used (optional).
- Note:** A.G.A. design certified for installation on non-combustible flooring only.

### Ratings

Model No.	A.G.A. Input MBH	A.G.A. Output Gross MBH	Net I=B=R Rating		Approximate Shipping Weight (Lbs.)	I=B=R Chimney Size
			Steam MBH	Steam Sq. Ft.		
EGH-85	350	280	210	875	870	9" I.D. x 20'
EGH-95	400	320	240	1,000	960	10" I.D. x 20'
EGH-105	450	360	270	1,125	1,040	10" I.D. x 20'
EGH-115	500	400	300	1,250	1,135	12" I.D. x 20'
EGH-125	550	440	330	1,375	1,215	12" I.D. x 20'

### High Efficiency Model, Natural Gas without Tankless Heater Openings

### Trim Package Required

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	68134	EGH-85-PIN 350 MBTU INPUT BOILER LESS TRIM PKG	—
1	EA	68135	EGH-95-PIN 400 MBTU INPUT BOILER LESS TRIM PKG	—
1	EA	68136	EGH-105-PIN 450 MBTU INPUT BOILER LESS TRIM PKG	—
1	EA	68137	EGH-115-PIN 500 MBTU INPUT BOILER LESS TRIM PKG	—
1	EA	68138	EGH-125-PIN 550 MBTU INPUT BOILER LESS TRIM PKG	—

### Trim Packages

1	EA	68147	381-700-344 STEAM TRIM PKG FOR EGH BOILERS	—
1	EA	68148	381-700-336 WATER TRIM PKG FOR EGH BOILERS	—



**WEIL-McLAIN**  
A United Dominion Company

## Boiler Parts

Use with Model	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
CG	1	EA	66944	321-114-286 CG25/3 SECTION ASSEMBLY	—
CG	1	EA	66945	321-114-287 CG4 SECTION ASSEMBLY	—
CG	1	EA	66946	321-114-288 CG5 SECTION ASSEMBLY	—
CG	1	EA	66947	321-114-289 CG6 SECTION ASSEMBLY	—
CG	1	EA	69133	321-114-290 CG7 SECTION ASSEMBLY	—
CG	1	EA	66955	321-114-291 CG8 SECTION ASSEMBLY	—
CGI	1	EA	61711	381-356-499 INDUCER ASSEMBLY FOR CGI	—
GV	1	EA	68534	382-200-340 BLOWER MTR/HSG ASSY	—
GV	1	EA	68647	382-200-345 BLOWER MOTOR	—
GV	1	EA	68535	382-200-375 BLOCK TEMP SWITCH KIT	—
GV	1	EA	68536	382-200-410 GAS VALVE REPL KIT	—
GV	1	EA	68575	382-200-448 CTL MOD REPL KIT	—
	1	EA	68648	382-930-216 HOT SURFACE IGNITOR	—
Ultra 155	1	EA	68768	383-500-025 GAS VALVE KIT F/ULTRA 155	—
Ultra 230	1	EA	68770	383-500-030 GAS VALVE KIT F/ULTRA 230	—
Ultra 155	1	EA	68752	383-500-035 BLOWER ASSY F/ULTRA 155	—
Ultra 230	1	EA	68755	383-500-040 BLOWER ASSY F/ULTRA 230	—
Ultra 80/105/155/230/299/310	1	EA	68785	383-500-045 IGNITION ELECTRODE KIT	—
Ultra 80/105/155/230/299/310	1	EA	68786	383-500-055 FLUE TEMPERATURE SENSOR KIT	—
Ultra 80/105/155/230/299/310	1	EA	69062	383-500-133 DOOR GASKET REPLACEMENT KIT	—
Ultra 80/105/155/230	1	EA	68750	383-500-190 CONTROL MODULE F/ULTRA'S	—
Ultra 155/230/310	1	EA	66386	383-500-250 COVER PLATE INSLTN F/ ULTRA 155, 230, & 310	—
Ultra 155/230/310	1	EA	66395	383-500-255 COVER PLATE GSKT F/ ULTRA 155, 230, & 310	—
Ultra 80/105	1	EA	69081	383-500-260 28 MM WATER COMPRESSION FTG F/ ULTRA	—
Ultra 310	1	EA	66762	383-500-300 WATER SENSOR F/ULTRA BOILER	—
Ultra	1	EA	69054	383-500-345 PLUG REPLACEMENT KIT	—
Ultra 310	1	EA	69026	383-500-360 BLOWER ASSY F/ULTRA 310	—
Ultra 310	1	EA	66976	383-500-390 GAS VALVE KIT F/ ULTRA 310	—
Ultra 155/230/310	1	EA	69050	383-500-395 COVER PLATE REPLACEMENT KIT	—
Ultra 80/105/155/230/299/310	1	EA	69117	383-500-408 DISPLAY BOARD KIT F/ ULTRA	—
All Ultras	1	EA	87209	383-500-603 KIT-S FUSE 3A 32VDC	—
All Ultras	1	EA	87210	383-500-604 KIT-S FUSE 12A 250V S-BLOW	—
Ultra 80/105	1	EA	87228	383-500-605 MAINTENANCE KIT FOR ULTRA 80 AND 105	—
Ultra 155/230/299/310	1	EA	87229	383-500-620 MAINTENANCE KIT FOR ULTRA 155 THROUGH 399	—
All Ultras	1	EA	87211	383-500-642 KIT-S U-CONTROL BLK-T	—
Ultra 80-399	1	EA	64894	383-500-658 U CONTROL FOR ULTRA	—
Ultra 550/750	1	EA	87212	383-500-659 DISPLAY HOUSING WITH LCD	—
Ultra 80/105	1	EA	69023	383-501-027 BLOWER ASSY F/ULTRA 80/105	—
Ultra 80	1	EA	66958	383-501-029 GAS VALVE KIT F/ ULTRA 80	—
Ultra 105	1	EA	66968	383-501-030 GAS VALVE KIT F/ ULTRA 105	—
Ultra 550/750	1	EA	87213	383-600-020 KIT-S SLCN CORD RED ULT COML	—
Ultra 750	1	EA	87214	383-600-043 KIT-S BRN REPL SZ 6 SC ULTCOML	—
Ultra 550	1	EA	87215	383-600-044 KIT-S BRN REPL SZ 5 SC ULTCOML	—
Ultra 550/750	1	EA	87216	383-600-045 KIT-S ASY-BLWR ULT COML	—
	1	EA	87217	383-600-060 KIT-S EXP MOD-C FOR 120V CTL	—
Ultra 550/750	1	EA	87218	383-600-062 KIT-S MOD-C W/CIR-BRDU-CTLCSDD1	—
	1	EA	87219	383-600-066 KIT-S VLV-G 3/4 S-FLNG GAS/AIR	—
Ultra 550/750	1	EA	87220	383-600-069 KIT-S LWCO TACO LTR0243N-S1	—
Ultra 550/750	1	EA	87221	383-600-070 KIT-S ELECTR IGN 75MM ULT COML	—
Ultra 550/750	1	EA	87222	383-600-071 KIT-S T-SNSRWTRSNGN NTC 1/4NPT	—
Ultra 550/750	1	EA	87223	383-600-072 KIT-S T-SNSR DUPLEX NTC 12KOHM	—
	1	EA	68649	510-218-097 2 1/2"; 0-60 PSIG COMBO GAUGE	—
	1	EA	68651	510-218-099 COMBO GAUGE	—
Ultra 80-399	1	EA	69134	510-300-003 L4006E 1125 AQUASTAT MANUAL RESET 200*	—
Ultra 80-399	1	EA	69442	510-300-004 L4006A 2148 AQUASTAT	—
Ultra 80-399	1	EA	69460	510-300-010 1/2" NPT LIMIT WELL	—
CG/PFG	1	EA	68545	510-300-013 SPILL SWITCH	—
GV	1	EA	68537	510-312-019 LIMIT CTL W/1/2IN WELL	—
EG/CG/PFG/EGH	1	EA	68540	510-312-166 TRANS W/BALE WIRE	—
	1	EA	68541	510-312-167 TRANS W/RELAY	—
	1	EA	68542	510-312-209 LIMIT CTL W/3/4IN WELL	—
	1	EA	68544	510-312-254 LIMIT CTL W/CASE & COVER	—
EG/CGI/CG/PFG/EGH	1	EA	68543	510-312-250 LIMIT CTL W/1/2IN WELL	—
	1	EA	68653	510-312-312 BLOWER ASSEMBLY	—
	1	EA	68654	510-312-317 BLOWER MOTOR KIT	—
EG/CG/PFG/EGH	1	EA	68546	510-350-223 RELAY	—

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STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	68547	510-811-221 PILOT KIT	—
1	EA	68573	510-811-362 LP GAS CONVERSION KIT	—
1	EA	65153	510-811-458 PILOT KIT	—
1	EA	65189	510-811-459 PILOT KIT	—
1	EA	61710	510-811-502 IGNITION MODULE FOR V/HE	—
1	EA	68548	510-811-640 PILOT KIT	—
1	EA	68549	510-811-644 PILOT KIT	—
1	EA	68551	511-044-256 GAS VALVE	—
1	EA	68552	511-044-286 GAS VALVE	—
1	EA	68553	511-044-287 GAS VALVE	—
1	EA	68554	511-044-353 GAS VALVE	—
1	EA	68555	511-044-360 GAS VALVE	—
1	EA	68556	511-044-381 GAS VALVE	—
1	EA	68557	511-044-382 GAS VALVE	—
1	EA	68550	511-044-505 GAS VALVE	—
1	EA	68693	511-210-433 FILL VALVE ANGLE	—
1	EA	68694	511-330-079 IGNITION CONTROL MODULE	—
1	EA	68558	511-330-095 IGN CTL W/OPR MOLEX	—
1	EA	68695	511-330-097 IGNITION CONTROL MODULE	—
1	EA	68559	511-330-099 IGNITION CTL	—
1	EA	68560	511-330-148 IGNITOR REPL KIT	—
1	EA	68563	511-330-170 PILOT BURNER	—
1	EA	68564	511-330-186 PILOT BURNER W/BRKT	—
1	EA	68565	511-330-197 PILOT BURNER	—
1	EA	68698	511-330-218 PILOT ASSEMBLY KIT	—
1	EA	65188	511-330-221 PILOT BURNER	—
1	EA	69104	511-330-258 CONTROL MODULE FOR ULTRA 310	—
1	EA	68787	511-405-113 PUMP	—
1	EA	68566	511-624-450 PRESSURE SWITCH	—
1	EA	68567	511-624-451 PRESSURE SWITCH	—
1	EA	68568	511-624-452 PRESSURE SWITCH	—
1	EA	68569	511-624-453 PRESSURE SWITCH	—
1	EA	68726	511-624-510 PRESSURE SWITCH	—
1	EA	68570	511-624-520 PRESSURE SWITCH	—
1	EA	68727	511-724-249 GENERATOR	—
1	EA	68730	511-724-274 MAIN FLAME SENSOR F/LGB	—
1	EA	68571	511-842-370 TRANS	—
1	EA	68572	512-050-230 THERMO ROLLOUT FUSE	—
1	EA	68733	512-200-000 BURNER STAINLESS TUBE	—
1	EA	68742	512-200-045 BURNER	—
1	EA	68743	512-200-077 BURNER	—
1	EA	68744	512-200-078 BURNER	—
1	EA	68745	560-528-957 PILOT ORIFICE LP	—
1	EA	68747	560-528-959 PILOT ORIFICE	—
1	EA	68748	560-742-860 PILOT TUBING	—
1	EA	87224	561-444-101 PLG ASY FLUE PIP INSP	—
1	EA	69082	564-100-002 22 MM WATER COMPRESSION FTG F/ ULTRA	—
1	EA	87225	570-350-230 RLY-S DPDT 10A 120VAC	—
1	EA	87226	590-300-022 GSKT VNTI/G-TRN 70MMX2MMX70MM	—
1	EA	87227	590-318-042 O-RING VLV-G HON CPOR020156/B	—
1	EA	69038	591-200-000 COVER PLATE GASKET F/ ULTRA 80/105	—



## Residential Boilers

With Glass Lined Cast Iron Headers and Non-Ferrous Waterways



### Specifications

Model No.	Input MBTUH	Heating Capacity MBTUH	Net I=B=R Rating	Piping Connection		Vent Dia. (In.)	Approx. Shipping Weight (Lbs.)
				Water NPT (In.)	Gas NPT (In.)		
H-0042	42	35	30	1	1/2	4	95
H-0066	66	54	47	1	1/2	5	105
H-0090	90	74	64	1	1/2	5	105
H-0135	135	109	95	1-1/4	1/2	6	135
H-0180	180	148	129	1-1/4	1/2	7	140

### Minimum Clearance from Combustible Materials

Model No.	Floor	Front (In.)	Rear (In.)	Right Side (In.)	Left Side (In.)	Top (In.)	Flue Vent (In.)
H-0042	Combustible	4	6	6	6	16	6
H-0066	Combustible	4	6	6	6	16	6
H-0090	Combustible	Alcove	6	6	6	16	6
H-0135	Combustible	Alcove	6	6	6	16	6
H-0180	Combustible	Alcove	6	6	6	16	6

A front clearance of at least 24 inches is recommended for adequate service of burner tray and controls.

The finned coppertube boiler that is ready to go right out of the box. Five sizes: 42, 66, 90, 135, and 180 MBTUH inputs with built-in draft diverter, automatic vent damper, factory installed circulator and bypass, and electronic spark ignition plus safety sensors to protect against roll-out, flue gas spillage, and low flow conditions. Designed for fast installation and easy service. On/Off firing 42 through 66 and 2-stage firing 90 through 180. Boiler includes all non-ferrous waterways. For systems requiring all non-ferrous design, cast iron pumps can be changed to bronze or stainless steel.

#### KnowFlo Sensor

Raypak's KnowFlo solid state control detects a low-flow condition by electrically sensing water temperature and shutting down the boiler before any significant over-temperature can develop.

The boiler is kept off until the temperature has returned to an acceptable level and approximately three minutes have elapsed. The KnowFlo sensor protects against interruptions in flow.

The heat exchanger is ASME inspected and stamped 160 PSI. Other components of the heating system normally restrict operating pressure to 125 PSI or less. 30 PSI relief valve standard.

#### Safe Operation

Built-in manual reset safety sensors shut down the boiler in event of flame roll-out of flue gas spillage.

#### Installs on Combustible Flooring

AGA design certified for installation on combustible flooring.

### Standing Pilot Model with Vent Damper

AFUE Rating	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
81.1	1	EA	68325	H3-NF0135 NAT STD PILOT BOILER W/CI PUMP	—
82.3	1	EA	68326	H3-NF0180 NAT STD PILOT BOILER W/CI PUMP	—

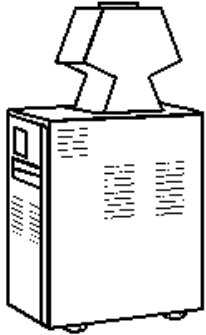
### Intermittent Spark Ignition Model with Vent Damper

84.0	1	EA	68327	H4-NF0042 NAT IID BOILER W/CI PUMP	—
82.0	1	EA	68328	H4-NF0066 NAT IID BOILER W/CI PUMP	—
82.1	1	EA	68329	H3-NF0090 NAT IID BOILER W/CI PUMP	—
81.1	1	EA	68330	H3-NF0135 NAT IID BOILER W/CI PUMP	—
82.3	1	EA	68331	H3-NF0180 NAT IID BOILER W/CI PUMP	—



## Commercial Boilers

### Finned Coppertube Type WH Hot Water Supply Boilers and Type H Hydronic Heating Boilers



#### Efficient

- Thermal efficiency 82%, highest of any atmospheric boiler available today.
- Thermal shock proof
- 20-year warranty against thermal shock damage up to 150° F differential. Maximum operating temperature: 230° F.
- Light weight
- A floor load to 70 lbs./sq. ft. or less.
- High recovery
- Cuts fuel costs substantially because the standby and radiation losses normal to other boilers and tank-type water heaters are eliminated.
- Low water operating temperature
- Operates with water temperature as low as 105° F without condensation.

#### Heat Exchanger

- ASME stamped 160 PSIG
- National board approved
- Bronze headers
- Finned copper tubes
- ASME steel tubesheet
- Silicon O-rings
- 125 PSIG relief valve (WH3)
- 45 or 60 PSIG relief valve (H3)
- Temperature and pressure gauge

#### Gas Control Train

- Main gas pressure regulator
- Safety shut-off valve, redundant
- 2-stage control valve
- AGA Designed Certified, ANSI Z21.13
- Construction
- Indoor draft hood
- Front controls enclosed
- Stainless steel burners
- Polytuf powder coat finish

#### Control

- 115/1/60 power supply
- 115V/24V transformer
- (IID) intermittent spark ignition
- Operating and limit controls
- On/Off switch
- Flow switch
- Economaster II pump relay

Model No.	MBTU		Dimensions (In.)			Jacket Height	Gas Conn.	Water Conn.	Flue Dia.
	Input	Output	Width	Overall Height	Depth				
H-260	264.0	216.0	22-3/8	62-7/8	26-1/2	38	3/4	1-1/2	7
WH/H-330	334.0	274.0	25-3/4	63-3/4	26-1/2	38	3/4	1-1/2	8
WH/H-400	399.0	327.0	29-1/4	65-3/8	26-1/2	38	3/4	1-1/2	9
WH/H-514	511.5	409.2	32-3/4	57	29-1/2	33	1	2	10
WH/H-624	627.0	501.6	37-1/2	57	29-1/2	33	1	2	12
WH/H-724	726.0	580.8	41-5/8	57	29-1/2	33	1	2	12
WH/H-824	825.0	660.0	45-3/4	57	29-1/2	33	1	2	14

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	66738	H3-260R IID CI BOILER 2/CTN-008085	—
1	EA	68332	WH3-330 IID BR BOILER 2/CTN-008148	—
1	EA	68333	WH3-400 IID BR BOILER 2/CTN-008149	—
1	EA	68334	WH3-514 IID BR BOILER 2/CTN-001457	—
1	EA	68335	WH3-624 IID BR BOILER 2/CTN-001458	—
1	EA	68336	WH3-724 IID BR BOILER 2/CTN-001459	—
1	EA	68337	WH3-824 IID BR BOILER 2/CTN-001460	—
1	EA	68339	H3-330 IID BR BOILER 2/CTN-008148	—
1	EA	68340	H3-400 IID BR BOILER 2/CTN-008149	—
1	EA	68341	H3-514 IID BR BOILER 2/CTN-001457	—
1	EA	68342	H3-624 IID BR BOILER 2/CTN-001458	—
1	EA	68343	H3-724 IID BR BOILER 2/CTN-001459	—
1	EA	68344	H3-824 IID BR BOILER 2/CTN-001460	—

NOTE: Price for all models is without pump.



## Pool Heaters



Heaters include a digital control with liquid crystal display for temperature selection and heater settings and microprocessor controlled diagnostics (except C-R155C-EN). Pool heaters come packaged for outdoor use except for C-R155C-EN which needs a hood. AGA Design Certified.

Pool Size (Sq. Ft.)	Model for Temp. Maint.
300	C-R206
400	C-R206
500	C-R206
600	C-R206
700	C-R206
800	C-R266

### Specifications and Dimensions

Model No.	BTU Input (000)	Cabinet Width	Flue Dia.	Solid State Single or Dual Temp. Control	
				Millivolts	Elec. Ignition
C-R206	199.5	20"	6"	S	D
C-R266	266	23"	7"	S	D
C-R336	332.5	26"	8"	S	D
C-R406	399	29"	9"	S	D

Model No.	Spa/Tub Size in Gallons					
	300	400	500	600	700	800
	Desired Temp. Rise in °F per Hour					
C-R206	64	49	39	33	27	24
C-R266	84	63	51	42	36	32
C-R336	104	78	63	52	45	39
C-R406	128	96	77	64	55	48

Model No.	Water Connects		Shipping Weight (Lbs.)			
	1-1/2"	2"	Heater Base	Stackless Top	Outdoor Stack	Draft Hood
C-R206	X	X	206	Included	N/A	12
C-R266	X	X	229	Included	N/A	15
C-R336	X	X	249	Included	N/A	17
C-R406	X	X	268	Included	N/A	20

### Cast Iron Header Pool Heater

BTU Input	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
199,500	1	EA	66483	C-R206A-EN-C NAT CI POOL HTR ASME	—
266,000	1	EA	66487	C-R266A-EN-C NAT CI POOL HTR ASME	—
332,500	1	EA	66496	C-R336A-EN-C NAT CI POOL HTR ASME	—
399,000	1	EA	66502	C-R406A-EN-C NAT CI POOL HTR ASME	—

### Indoor Hoods for C-R Series

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	66346	009838 INDOOR DRAFT HOOD R206	—
1	EA	66350	009839 INDOOR DRAFT HOOD R266	—
1	EA	66351	009840 INDOOR DRAFT HOOD R336	—
1	EA	66354	009841 INDOOR DRAFT HOOD R406	—

### Outdoor Hoods for C-R Series

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	66552	003710 OUTDOOR STACKLESS TOP R155	—

### Pool Heater Replacement Parts

For Pool Heaters Manufactured	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
	1	EA	66522	003346F POOL THERMOSTAT MV	—
	1	EA	66433	005899F THERMAL CUT-OFF FUSE	—
11-1-98 through current	1	EA	67681	006701F R185-R405 IID TEMP SENSOR	—
11-1-98 through current	1	EA	67680	006737F POOL PRESSURE SWITCH	—
	1	EA	67684	010253F R206A-R406A PC BOARD THERMOSTAT	—
	1	EA	66532	062234B UNITHERM GOVERNOR	—
11-1-93 through 10-31-98	1	EA	66465	062237B POOL PRESSURE SWITCH	—
	1	EA	66466	600892B 135 HIGH LIMIT-RED	—
	1	EA	66467	600893B 140 HIGH LIMIT-BLK	—



## Boiler Replacement Parts

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	66536	002003F H&W 184-403 R185-R405 NAT IID PILOT	—
1	EA	66535	002234F H&W 514 & UP NAT IID PILOT	—
1	EA	66519	003943F 30-180 PC BOARD/PROBE KIT	—
1	EA	66537	003972F 30-180 NAT STD PILOT	—
1	EA	66539	003976F 30-180 HOT SURFACE IGN COIL	—
1	EA	66437	004675F ECONOMASTER II PUMP TIME DELAY	—
1	EA	67686	004817B ELECT IGN W/O LOCKOUT	—
1	EA	66473	004881F NAT GAS VALVE WH3/H3-514-624 IID	—
1	EA	66460	004935F IGNITION CTL MODULE IID 30-263	—
1	EA	66448	005461F NAT COMB GAS VALVE H0030-66 IID	—
1	EA	66459	005463F NAT COMB GAS VALVE H0090-180 IID	—
1	EA	66436	005467F SPARK TO HOOD PILOT ASSY FOR RES IID 30-180	—
1	EA	66438	005481F NAT TO LP CONV KIT H0042 IID	—
1	EA	66439	005483F NAT TO LP CONV KIT H0066 IID	—
1	EA	66355	005485F-2STG NAT TO LP CONV KIT H0090 IID	—
1	EA	66441	005487F-2STG NAT TO LP CONV KIT H0135 IID	—
1	EA	66442	005489F-2STG NAT TO LP CONV KIT H0180 IID	—
1	EA	66520	006021F TEMP SENSOR	—
1	EA	67693	006533F 115/24V 50VA TRANSFORMER	—
1	EA	66533	007205F WGTP-90#-3"-BCK TEMP & PRESS GAUGE H BLRS	—
1	EA	66534	007399F WGTP-200#-3"-BCK TEMP & PRESS GAUGE W-BLRS	—
1	EA	66478	501410 RVW.75-30-0510 30 PSIG RELIEF VALVE 30-180	—
1	EA	67696	600656 NAT COMB GAS VALVE	—
1	EA	67689	600850 NAT COMB GAS VALVE	—
1	EA	66518	601003 HI LIMIT/STAGE CONTROL	—
1	EA	67695	601094 LP COMB GAS VALVE	—
1	EA	66468	601129F IGNITION CTL HSI 30-180	—
1	EA	66521	650691 120/24V TRANSFORMER	—
1	PKG	66469	800001B 1" ID BEVEL GASKET (9/PKG)	—
1	PKG	66470	800014B 3/4" ID FLAT GASKET (9/PKG)	—
1	PKG	66471	800086B 1" ID FLAT GASKET (9/PKG)	—
1	PKG	66523	800203B 3/4" ID RED GASKET (9/PKG)	—
1	EA	65240	8116321(8116314) (RVGP-PC-4-BKF) 4" DAMPER	—
1	EA	65241	8116322(8116315) (RVGP-PC-5-BKF) 5" DAMPER	—
1	EA	65242	8116323(8116316) (RVGP-PC-6-BKF) 6" DAMPER	—
1	EA	65243	8116324(8116317) (RVGP-PC-7-BKF) 7" DAMPER	—
1	EA	66443	N-P-155EN NAT-LP CONV KIT	—
1	EA	66474	N-P-R206A-EN NAT-LP CONV KIT	—
1	EA	66476	N-P-R336A-EN NAT-LP CONV KIT	—
1	EA	66477	N-P-R406A-EN NAT-LP CONV KIT	—

# Uponor Radiant Floor Heating Systems

The radiant floor heating system is an alternative heating source that has tubing embedded in a concrete floor and warm water circulates through the tubes. The floor becomes the radiator. Heat sources include water heaters, boilers, heat pumps, heat exchangers, and any low temperature appliance.

Uponor hePEX® is a cross-linked polyethylene heat transfer tubing with an oxygen diffusion barrier. It is intended for use in closed loop hydronic radiant panel heating systems operating at sustained water temperatures below 200° F. Corrodible components may be used in a hePEX circulating loop.

**Temperature and Pressure Ratings:**

- 73.4° F @ 160 PSI
- 180° F @ 100 PSI
- 200° F @ 80 PSI

**Minimum Opening Requirements**

Number of Loops	Horizontal Installation		Vertical Installation	
	Height	Width	Height	Width
2	30	10.0*	20.0	14.5*
3	30	11.5*	21.5	14.5*
4	30	13.5*	23.5	14.5*
5	30	15.5	25.5	14.5*
6	30	17.5	27.5	14.5*
7	30	19.5	29.5	14.5*
8	30	21.5	31.5	14.5*
9	30	23.5	33.5	14.5*
10**	30	25.5	35.5	14.5*

\* Fits within a standard stud wall at 16" on center.

\*\* Maximum recommended number of loops in one manifold.

**hePEX® Barrier Tubing**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5
1	CL	68376	A1210375 3/8 X 400FT HEPEX	—	—
1	CL	68377	A1220375 3/8 X 1000FT HEPEX	—	—
1	CL	66554	A1220625 5/8 X 1000FT HEPEX	—	—
1	CL	66569	A1250625 5/8 X 300FT HEPEX	—	—
1	CL	68596	A1180313 5/16 X 250FT QUIK TRAK HEPEX	—	—
1	CL	68400	A1250500 1/2 X 300FT HEPEX	—	—
1	CL	68401	A1220500 1/2 X 1000FT HEPEX	—	—
1	CL	68402	A1250750 3/4 X 300FT HEPEX	—	—
1	CL	68576	A1251000 1 X 300FT HEPEX	—	—

**Multicor (Pex-Al-Pex) Tubing**

1	CL	66550	D1250500 1/2 X 300FT MULTICOR	—	—
1	CL	66551	D1250625 5/8 X 300FT MULTICOR	—	—
1	CL	66556	D1220500 1/2 X 1000FT MULTICOR	—	—
1	CL	66553	D1250750 3/4 X 300FT MULTICOR	—	—
1	CL	66558	D1141000 1 X 100FT MULTICOR	—	—

**Manifolds**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	66736	A2610700 7-LOOP TRUFLOW MANIFOLD	—
1	EA	66734	A2610800 8-LOOP TRUFLOW MANIFOLD	—
1	EA	66456	A2660200 2-LOOP TRUFLOW JR. W/ VLVLESS AND BALANCING VLVS	—
1	EA	66400	A2660201 2-LOOP TRUFLOW JR. W/ ISO VLVS AND BALANCING VLVS	—
1	EA	66457	A2660300 3-LOOP TRUFLOW JR. W/ VLVLESS AND BALANCING VLVS	—
1	EA	66401	A2660301 3-LOOP TRUFLOW JR. W/ ISO VLVS AND BALANCING VLVS	—
1	EA	66458	A2660400 4-LOOP TRUFLOW JR. W/ VLVLESS AND BALANCING VLVS	—
1	EA	66402	A2660401 4-LOOP TRUFLOW JR. W/ ISO VLVS AND BALANCING VLVS	—
1	EA	66403	A2660501 5-LOOP TRUFLOW JR. W/ ISO VLVS AND BALANCING VLVS	—
1	EA	66435	A2660601 6-LOOP TRUFLOW JR. W/ ISO VLVS AND BALANCING VLVS	—
3	EA	66667	F2801575 1-1/2"X6FT CU MANIFOLD W/24 OUTLETS 3/4"	—
1	EA	66638	LF2501000 1"CU MANIFOLD W/VALVES 10 OUTLETS 1/2"	—
1	EA	66639	Q2501200 1"CU MANIFOLD W/VALVES 12 OUTLETS 1/2"	—

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**Manifold Parts**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	66619	A2080020 LOOP END CAP	—
10	EA	66563	A2080032 BASIC END CAP	—
10	EA	66565	A2123210 BUSHING	—
10	EA	66595	A4133210 R32X1"CU MANIFOLD ADAPTER	—
10	EA	66616	A4143210 R32X3/4"CU MANIFOLD ADAPTER	—
10	EA	66624	A2400020 3/4" END CAP GSKT	—
10	EA	66623	A2400032 BASIC END CAP GSKT	—
10	EA	66622	A2403232 MANIFOLD GASKET	—
10	EA	66744	A2620015 FLOW/TEMPERATURE NIPPLE	—
10	EA	66625	A2620050 TRUFLOW AUTO VENT W/ CHECK VALVE	—
10	EA	66760	A2621010 UNION NIPPLE	—
1	EA	66879	A2631250 TRUFLOW MANIFOLD SUPPLY/RETURN BALL VLVS	—
1	EA	66621	A2803250 END CAP W/VENT	—
1	EA	66765	A2913210 MANIFOLD THERMOMETER UNION	—
10	EA	66748	A4153220 R32XR20 MANIFOLD ADAPTER AND ELBOW	—
10	EA	66749	A4153225 R32XR25 MANIFOLD ADAPTER AND ELBOW	—
10	EA	66649	Q4143210 R32X1" PEX MANIFOLD ADAPTER	—
10	EA	66637	Q4143275 R32X3/4" PEX MANIFOLD ADAPTER	—
10	EA	66759	Q4153210 R32X1" PEX MANIFOLD ADAPTER AND ELBOW	—
10	EA	66758	Q4153275 R32X3/4" PEX MANIFOLD ADAPTER AND ELBOW	—
10	EA	66669	Q5806375 5/8"PEX X 3/4"CU BALL VALVE	—
10	EA	66668	Q5807575 3/4"PEX X 3/4"CU BALL VALVE	—

**Miscellaneous QS20 Accessories**

10	EA	66180	A2620007 1.76 OZ SILICONE OIL	—
10	EA	66764	A4010313 5/16" QUIK TRAK REPAIR COUPLING	—
10	EA	68378	A4020375 3/8" FITTING ASSEMBLY	—
10	EA	68403	A4020500 1/2" FITTING ASSEMBLY	—
10	EA	68404	A4020625 5/8" FITTING ASSEMBLY	—
10	EA	68405	A4020750 3/4" FITTING ASSEMBLY	—
10	EA	68599	A4020313 5/16" QUIK TRAK FITTING ASSEMBLY	—
1	PKG	66560	A4021000 3/4" O-RING 10/PKG	—
1	PKG	66559	A4021116 3/8"-1/2"-5/8" O-RING 10/PKG	—
10	EA	68406	A4322020 R20 X R20 COUPLING NIPPLE	—
10	EA	68407	A4322050 R20 X 1/2NPT CONV NIPPLE	—
10	EA	68408	A4322075 R20 X 3/4NPT CONV NIPPLE	—
10	EA	68426	A4322525 R25 X R25 COUPLING NIPPLE	—
10	EA	68427	A4322575 R25 X 3/4 NPT CONV NIPPLE	—
10	EA	68409	A4332050 R20 X 1/2CU ADAPTER	—
10	EA	68410	A4332075 R20 X 3/4CU ADAPTER	—
10	EA	68411	A4332575 R25 X 3/4CU ADAPTER	—
10	EA	68412	A4342050 R20 X 1/2CU FITTING ADAPTER	—
10	EA	68413	A4342075 R20 X 3/4CU FITTING ADAPTER	—
10	EA	68414	A4382075 R20 X 3/4CU BASEBOARD ELBOW	—
10	EA	68415	A4392075 R20 X 3/4CU BASEBOARD TEE	—
25	EA	68416	A5500500 1/2" PLASTIC BEND SUPPORT	—
25	EA	68417	A5500625 5/8" PLASTIC BEND SUPPORT	—
20	EA	68418	A5500750 3/4" PLASTIC BEND SUPPORT	—
25	EA	68419	A5501000 1" PLASTIC BEND SUPPORT	—
50	EA	66848	A5110375 3/8" METAL BEND SUPPORT	—
25	EA	68420	F5120500 1/2" DROP EAR BEND SUPPORT	—
25	EA	68421	F5120625 5/8" DROP EAR BEND SUPPORT	—

**EP Manifolds**

1	EA	87017	A2670201 2 LOOP EP MANIFOLD WITH FLOW METER	—
1	EA	87018	A2670301 3 LOOP EP MANIFOLD WITH FLOW METER	—
1	EA	87019	A2670401 4 LOOP EP MANIFOLD WITH FLOW METER	—
1	EA	87020	A2670501 5 LOOP EP MANIFOLD WITH FLOW METER	—
1	EA	87021	A2670601 6 LOOP EP MANIFOLD WITH FLOW METER	—
1	EA	87022	A2670701 7 LOOP EP MANIFOLD WITH FLOW METER	—
1	EA	87023	A2670801 8 LOOP EP MANIFOLD WITH FLOW METER	—

**Propex Fittings**

10	EA	68477	LF4501010 1"PEX X 1"CU FITTING ADAPTER	—
10	EA	68474	LF4511010 1"PEX X 1"CU ADAPTER	—

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**1" Propex Copper Adapters**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
25	EA	66210	Q4505075 1/2" PROPEX X 3/4" CU BRASS FITTING ADAPTER	—
10	EA	68322	Q4020375 3/8" PEX FITTING ASSEMBLY	—
10	EA	68435	Q4020500 1/2" PEX FITTING ASSEMBLY	—
10	EA	68436	Q4020625 5/8" PEX FITTING ASSEMBLY	—
10	EA	66181	Q4020750 3/4" PROPEX FITTING ASSEMBLY	—
10	EA	66213	Q4507510 3/4" PROPEX X 1" CU BRASS FITTING ADAPTER	—
25	EA	66211	Q4507550 3/4" PROPEX X 1/2" CU BRASS FITTING ADAPTER	—
25	EA	66206	Q4517550 3/4" PROPEX X 1/2" CU BRASS SWEAT ADAPTER	—
50	EA	68510	Q4680625 5/8"PEX WHITE RING	—
50	EA	66767	Q4690302 3/8"PEX BLUE RING	—
50	EA	68489	Q4690512 1/2"PEX BLUE RING	—
50	EA	68492	Q4690756 (Q4690752) 3/4" RING	—
50	EA	68493	Q4691000 1"PEX WHITE RING	—
10	EA	66205	Q4761000 1" PROPEX X 1" PROPEX EP ELBOW	—

**Multicor Fittings**

10	EA	66570	D4120500 1/2" MULTICOR FITTING ASSEMBLY	—
10	EA	66571	D4120625 5/8" MULTICOR FITTING ASSEMBLY	—
10	EA	66572	D4120750 3/4" MULTICOR FITTING ASSEMBLY	—
10	EA	66604	D4143210 R32 X 1" MLC PRESS FTG MANIFOLD STRAIGHT ADAPTER	—
10	EA	66602	D4143263 R32 X 5/8" MLC PRESS FTG MANIFOLD STRAIGHT ADAPTER	—
10	EA	66603	D4143275 R32 X 3/4" MLC PRESS FTG MANIFOLD STRAIGHT ADAPTER	—
10	EA	66610	D4153210 R32 X 1" MLC PRESS FTG MANIFOLD ELBOW ADAPTER	—
10	EA	66607	D4153263 R32 X 5/8" MLC PRESS FTG MANIFOLD ELBOW ADAPTER	—
10	EA	66608	D4153275 R32 X 3/4" MLC PRESS FTG MANIFOLD ELBOW ADAPTER	—
10	EA	66574	D4515050 1/2" MLC X 1/2" CU BRASS ADAPTER	—
10	EA	66576	D4517575 3/4" MLC X 3/4" CU BRASS ADAPTER	—
10	EA	66581	D4525075 1/2" MLC X 3/4" NPT BRASS MALE THREADED ADAPTER	—
10	EA	66685	D4541010 1" MLC X 1" MLC PRESS FTG BRASS COUPLING	—
10	EA	66687	D4511010 1" MLC X 1" CU PRESS FTG BRASS ADAPTER	—
10	EA	66561	D4545050 1/2" MLC X 1/2" MLC BRASS COUPLING	—
10	EA	66564	D4547575 3/4" MLC X 3/4" MLC BRASS COUPLING	—
10	EA	66548	D4527575 3/4" MLC X 3/4" NPT BRASS MALE THREADED ADAPTER	—
10	EA	66567	D4710750 3/4" MLC X 3/4" MLC BRASS ELBOW	—
10	EA	66686	D4711000 1" MLC X 1" MLC PRESS FTG BRASS ELBOW	—

**Controls**

1	EA	66541	A3010522 THERMAL ACTUATOR, FOUR WIRE	—
1	EA	68422	A3020522 MOTORIZED VALVE ACTUATOR	—
1	EA	66617	A3030003 3 ZONE CONTROL MODULE	—
1	EA	66618	A3030004 4 ZONE CONTROL MODULE	—
1	EA	68579	A3030101 WIRSBO THERMOSTAT I	—
10	EA	66819	A3040079 FLOOR SENSOR	—
1	EA	66809	A3040512 SETPOINT 512 2-STAGE PROG CONTROLLER	—
1	EA	66798	A3041501 SETPOINT 501S 1-STAGE SETPOINT CONTROLLER W/SENSOR	—
1	EA	66799	A3041511 SETPOINT 511S 1-STAGE PROG CONTROLLER W/SENSOR	—
1	EA	66597	A3080406 POWERED SIX-ZONE CONTROLLER	—
1	EA	66598	A3080404 POWERED FOUR-ZONE CONTROLLER	—

**Heat Emission Plates, Quik Trak Panels, and Heat Transfer Plates**

10	EA	68598	A5060702 7" QUIK TRAK RETURN PANEL	—
1	EA	68597	A5060761 7"X48"X6 PREASSEMBLED QUIK TRAK PANEL	—
20	EA	66573	A5080375 3/8" JOIST TRAK HEAT TRANSFER PLATE	—
20	EA	66582	A5080500 1/2" JOIST TRAK HEAT TRANSFER PLATE	—

**Fasteners**

1	PKG	68430	A7011250 1-1/4" STAPLES 10000/PKG	—
1	PKG	66583	A7031000 FIXING WIRE 1000/PKG	—
1	PKG	66584	A7040250 U-TUBE FSTNR 250/PKG	—
1	PKG	68496	F7050750 1/2"-3/4" TUBE TALON 100/PKG	—
1	PKG	68526	F7051258 1/2"-5/8" PEX CLIP-PLASTIC 100/PKG	—
1	PKG	66768	F7060375 3/8" PEX CLIP-PLASTIC 100/PKG	—

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**Tools**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	BOX	68346	A7015050 1-1/2" FOAM STAPLE 300/BOX	—
1	EA	66440	D6100500 1/2" MLC T-HANDLE CHAMFERING TOOL	—
1	EA	66463	D6100625 5/8" MLC T-HANDLE CHAMFERING TOOL	—
1	EA	66531	D6100750 3/4" MLC T-HANDLE CHAMFERING TOOL	—
1	EA	66540	D6101000 1" MLC T-HANDLE CHAMFERING TOOL	—
1	EA	66589	D6105063 3-WAY MULTICOR CHAMFERING TOOL	—
1	EA	66599	D6275063 MLC PRESS FITTING MANUAL TOOL KIT	—
1	EA	68434	E6021638 PNEUMATIC TUBING STAPLER KIT	—
1	EA	66615	E6061000 PIPE UNCOILER	—
1	EA	68505	E6081125 TUBE CUTTER	—
1	EA	66586	E6090005 FIXING WIRE TWISTER	—
1	EA	68433	E6091700 AUTO FIXING WIRE TWISTER	—
1	EA	66587	E6111188 1-3/16" WRENCH	—
1	EA	66588	E6111875 1-7/8" WRENCH	—
1	EA	68425	E6122000 PRESSURE TEST KIT	—
1	EA	66549	Q6310375 3/8" PROPEX EXPANDER HEAD	—
1	EA	66703	Q6310500 1/2" PROPEX EXPANDER HEAD	—
1	EA	68507	Q6310625 5/8" PROPEX EXPANDER HEAD	—
1	EA	66740	Q6310750 3/4" PROPEX EXPANDER HEAD	—
1	EA	66741	Q6311000 1" PROPEX EXPANDER HEAD	—
1	EA	87016	Q6323810 PROPEX AUTO ROTATION ADAPTER	—

# Uponor Climate Control

## Multifunction Hydronic Control



This control incorporates all mechanical functions required in radiant floor heating, boiler staging and control, domestic hot water (DHW), snow melt, zone pumping and supply water temperature mixing.

Input connections use a simple push-style connector and outputs use Cat5 cables and connector to control the output devices. Use the simple five-button display to set up and activate the functionality required for the individual installation.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	87013	A3509002 PROPANEL 90Z	—
1	EA	87014	A3509500 PROPANEL 90M	—
1	EA	87015	A3509502 PROPANEL 90MZ	—
1	EA	87000	A8020000 CLIMATE CONTROL MULTIFUNCTION HYDRONIC CONTROL	—
1	EA	87001	A9011001 OUTDOOR SENSOR F/ CLIMATE CONTROL	—
1	EA	87012	A9012002 DHW SENSOR FOR CLIMATE CONTROL	—
1	EA	87002	A9012010 BOILER CONTROL F/ CLIMATE CONTROL (ON/OFF)	—
1	EA	87003	A9013001 SUPPLY AND RETURN SENSOR F/ CLIMATE CONTROL	—
1	EA	87004	A9013022 1" MODULATING THREE WAY VALVE W/ CONTROL	—
1	EA	87005	A9013023 1 1/4" MODULATING THREE WAY VALVE W/ CONTROL	—
1	EA	87006	A9013030 PUMP CONTROL FOR CLIMATE CONTROL	—
1	EA	87007	A9013051 SNOW MELT FOR CLIMATE CONTROL (INC SENSOR AND WELL)	—
1	EA	87008	A9013052 AUTO SNOW AND ICE SENSOR (INC SENSOR AND CUP)	—
1	EA	87009	A9030003 3 FEET CAT5 CABLE FOR CLIMATE CONTROL	—
1	EA	87010	A9030007 7 FEET CAT5 CABLE FOR CLIMATE CONTROL	—
1	EA	87011	A9030015 15 FEET CAT5 CABLE FOR CLIMATE CONTROL	—



## ProPEX Expansion Tool Kit and Accessories



- Built-in auto rotate mechanism for effortless, one-handed use
- Quick cam mechanism for fast, continuous expansion
- Compact, right angle design for use in tight locations
- All-metal gears and integrated metal frame for maximum jobsite durability
- Paddle trigger for easy reach in confined spaces
- Expansion Heads
- Auto-rotate compatibility
- Backward compatibility fits most Uponor tools
- Chrome plated for weather and corrosion resistance
- Color coded rings for easy size recognition

### Expansion Tool Kit

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81120	2432-22 M12 PROPEX EXPANSION TOOL KIT	—

### Accessories

1	EA	81121	49-16-2403 M12 3/8IN PROPEX EXPANSION HEAD	—
1	EA	81122	49-16-2404 M12 1/2IN PROPEX EXPANSION HEAD	—
1	EA	81123	49-16-2405 M12 5/8IN PROPEX EXPANSION HEAD	—
1	EA	81124	49-16-2406 M12 3/4IN PROPEX EXPANSION HEAD	—
1	EA	81125	49-16-2408 M12 1IN PROPEX EXPANSION HEAD	—



## Foamboard Stapler For In-Floor Radiant Heating Installations

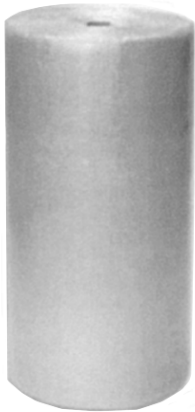
- Operates from a comfortable standing position
- Ergonomic D-grip handle
- Durable lightweight construction
- Cleaner staple feed
- Smoother stapling action



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80898	FBSN FOAMBOARD STAPLER	—



## Reflective Insulation



Ultra Concrete Underpad consists of a double layer of heavy duty polyethylene bubbles, sandwiched between a reflective aluminum sheet, and a clear polyethylene film.

- Protective coating over aluminum surface
- Reduces heat loss to the ground below
- Quick, safe, and easy to install
- Double bubble provides an effective thermal break
- Approved vapor barrier

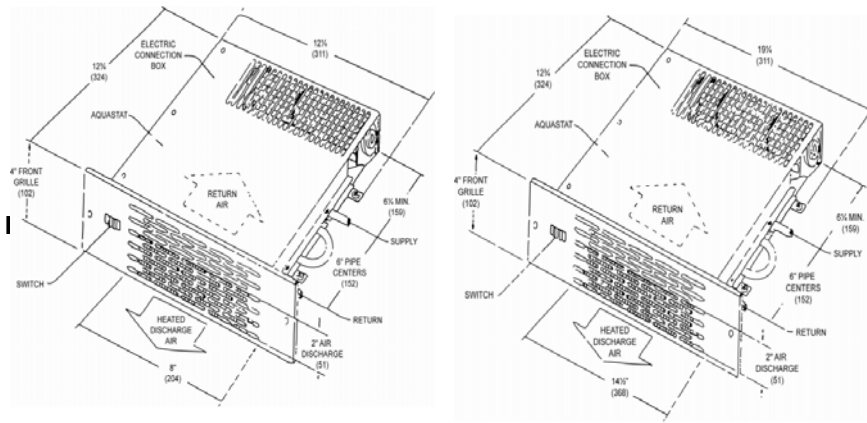
Ultra CBF is a patented under-concrete insulation product, comprised of a highly reflective aluminum sheet, sandwiched between two layers of industrial strength polyethylene bubbles.

- Can easily be installed over rough grade
- Superior bubble strength withstands jobsite traffic
- Methane, radiant, and vapor barrier all-in-one
- Helps direct radiant heat into the living space
- Can easily be formed around plumbing, wiring, etc.
- Thermal Value: Equivalent to R-10 for the assembly tested with thermography method.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
1	RLL	10595	1320-48-125 FOIL/DOUBLE BUBBLE/POLY 4X125 FT ULTRA BARRIER RFOIL	—	—
1	RLL	10596	1620-48-125 BUBBLE/FOIL/BUBBLE 4X125 ULTRA CONCRETE BARRIER RFOIL	—	—



## Hideavector3 Baseboard and Accessories



Hideavector3 heaters are the ideal solution wherever space is limited:

- Under cabinets
- In kitchens, baths and foyers
- Under stair risers and windows

### Heating Capacity (BTU/Hr.\*)

Water Flow Rates (Gallons) Model	Entering Water Temperature (°F)											Friction Loss (Head)
	GPM	110**	120**	130**	140	150	160	170	180	190	200	
HAV-48-3	1	1480	1800	2175	2590	3050	3510	3895	4278	4660	5015	.17 ft.
	2	1520	1840	2220	2640	3120	3590	3980	4375	4770	5127	.8 ft.
	3	1560	1875	2260	2690	3190	3670	4065	4470	4875	5240	1.2 ft.
HAV-88-3	1	3370	4055	4770	5540	6300	7000	7730	8460	9180	9910	.22 ft.
	2	3440	4145	4875	5670	6440	7155	7900	8650	9390	10,135	.95 ft.
	3	3515	4230	4980	5795	6585	7310	8070	8840	9600	10,360	1.5 ft.

\* Based on 65° F entering air temperature with fan at high speed including the heating effect factor.

\*\* Blower operates at water temperature above 140° F with standard self-contained aquastat. Optional low temperature aquastat available for low temperature application.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65317	HAV-48-3 HIDE-A-VECTOR	—
1	EA	65318	HAV-88-3 HIDE-A-VECTOR	—



## Baseboard Heaters and Accessories



Embassy baseboard heaters are ideal for any type of residential or light commercial installation. They have a rugged front panel, efficient operation, superior design, and are easy to install. The pivot damper can be modulated from fully opened to fully closed position with the touch of a finger.

Units are I-B-R rated and approved. Under the I-B-R fourth edition of testing and rating code 4 GMP is recommended for all normal loop systems. When flow rate is unknown, the I-B-R approved flow rate of 1 GPM must be used.

### Average Hot Water Temperature with 60° F Entering Air

GPM	#/Hour	170° F	180° F	190° F	200° F	210° F	220° F	230° F	240° F
4	2000	510	580	640	710	770	850	910	970
1	500	480	550	610	670	730	800	860	920

### Baseboard Heaters

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10-19	PC-3 20
1	EA	61578	KRP-D 3FT WHITE ENCLOSURE WITH ELEMENT	—	—	—
1	EA	61611	KRP-D 4FT WHITE ENCLOSURE WITH ELEMENT	—	—	—
1	EA	61612	KRP-D 5FT WHITE ENCLOSURE WITH ELEMENT	—	—	—
1	EA	61633	KRP-D 6FT WHITE ENCLOSURE WITH ELEMENT	—	—	—
1	EA	61634	KRP-D 7FT WHITE ENCLOSURE WITH ELEMENT	—	—	—
1	EA	61635	KRP-D 8FT WHITE ENCLOSURE WITH ELEMENT	—	—	—
1	EA	61636	KRP-D 10 FT WHITE ENCLOSURE WITH ELEMENT	—	—	—
1	EA	61640	KCA-D 10FT WHITE ENCLOSURE ONLY	—	—	—
1	EA	61641	KE 5FT 3/4IN ELEMENT ONLY	—	—	—

### White Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
48	EA	61643	KCC-L 3IN WHITE LEFT END CAP	—
48	EA	61645	KCC-R 3IN WHITE RIGHT END CAP	—
12	EA	61770	KHB HANGER BRACKET	—
12	EA	61647	KHC-L 6IN WHITE HINGED END CAP	—
12	EA	61650	KHC-R 6IN WHITE HINGED END CAP	—
12	EA	61662	KIC 45 DEGREE INSIDE WHITE CORNER	—
12	EA	61651	KIC 90 DEGREE INSIDE WHITE CORNER	—
12	EA	61655	KOC 90 DEGREE OUTSIDE WHITE CORNER	—
12	EA	61769	KSP 3 PIECES WHITE SPLICE SET	—
12	EA	61665	KWJ-L 3IN WHITE WALL JOINER	—
12	EA	61768	KWJ-R 3IN WHITE WALL JOINER	—

**GRUNDFOS**  **UP Series Circulator Pumps**



Grundfos Series UP circulators are wet rotor, single-stage, direct-drive centrifugal pumps designed for domestic and light commercial applications. Features include:

- Built-in motor protection.
- Quiet, maintenance-free performance.
- Flushed bearing design.
- Special lip seal and filter system on the Brute model (designed specifically for hydronic applications).
- U.L. Listed and CSA approved.
- Integrated check valve available on FC model.

**Maximum Working Pressure:** 145 PSI  
**Maximum Fluid Temperature Closed System:** 230° F (at corresponding ambient temperature of 104° F).

**Maximum Fluid Temperature Open System:** 140° F.

**NOTE:** Mixtures of water and ethylene or propylene glycol solutions of up to 50% by volume may be pumped. For information regarding the suitability of pumping other fluids, contact the factory.

**Super Brute, 3-Speed Pumps, Cast Iron Body, Flange Mount, 115 Volt**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	66308	UPS15-58FC 3-SPD CAST IRON PUMP L/FLANGE W/CHECK VALVE	—
1	EA	66317	UPS26-99FC 3-SPD CAST IRON PUMP L/FLANGE W/CHECK VALVE	—
1	EA	66318	UPS43-44FC 3-SPD CAST IRON PUMP L/FLANGE W/CHECK VALVE	—
1	EA	66626	UPS43-100F 3-SPD CAST IRON PUMP L/FLANGE	—

**Super Brute, 3-Speed Pumps, Bronze Body, Flange Mount, 115 Volt**

1	EA	66320	UPS26-99BFC 3-SPD BRONZE PUMP L/FLANGE W/CHECK VALVE	—
1	EA	66324	UPS43-44BFC 3-SPD BRONZE PUMP L/FLANGE W/CHECK VALVE	—

**Stainless Steel Body, Flange Mount, 115 Volt**

1	EA	66326	UPS15-35SFC STAINLESS STEEL PUMP L/FLANGE	—
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**GRUNDFOS**  **Alpha Series Circulator Pump**



The easy-to-read LED display in the ALPHA™ offers a range of unique, user-friendly features for monitoring the system:

- A large, real-time display indicates energy consumption.
- This same display will toggle every four seconds between power consumption and the flow indicator, showing the relative estimated flow rate in gallons per minute.
- A one-touch, button-type interface permits the user to toggle quickly and easily among seven different hydraulic operating modes; three fixed speeds, three levels of constant pressure, and the AUTOADAPT™ setting.

The objective of the AUTOADAPT™ algorithm is to measure and analyze the heating system during operation and adapt to the current heating pattern. The system adapts to night vs. day operations, summer vs. winter season, and heat losses or gains affecting room temperature.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	66596	ALPHA 15-55 F/LC VARIABLE SPEED CAST IRON PUMP L/FLANGE	—

**GRUNDFOS**  **Packaged Flange Sets**

**For Flange Mounted Pumps**

For Use with the Following Models	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
UPS15-58FC, UPS26-99FC, Alpha	10	PR	66313	GF 15/26 3/4"SWT X FLG ISOLATION FLANGE W/BALL VALVE	—
UPS15-58FC, UPS26-99FC, Alpha	10	PR	66314	GF 15/26 1"SWT X FLG ISOLATION FLANGE W/BALL VALVE	—
UPS15-58FC, UPS26-99FC, Alpha	10	PR	66315	GF 15/26 1-1/4"SWT X FLG ISOLATION FLANGE W/BALL VALVE	—
UPS15-58FC, UPS26-99FC, Alpha	1	SET	66419	519601 3/4" CAST IRON FLANGE SET	—
UPS15-58FC, UPS26-99FC, Alpha	1	SET	66420	519602 1" CAST IRON FLANGE SET	—
UPS15-58FC, UPS26-99FC, Alpha	1	SET	66421	519603 1 1/4" CAST IRON FLANGE SET	—
UPS15-58FC, UPS26-99FC, Alpha	1	SET	66422	519604 1 1/2" GF 15/26 CAST IRON FLANGE SET	—
UP15-18SF, UP15-42SF, UP25-64SF	1	SET	66424	519651 3/4" BRONZE FLANGE SET	—
UP15-18SF, UP15-42SF, UP25-64SF	1	SET	66425	519652 1" BRONZE FLANGE SET	—
UPS43-44FC	1	SET	66423	539605 1 1/2" GF 40/43 CAST IRON FLANGE SET	—
UP43-75BF	1	SET	66426	539615 1 1/2" BRONZE FLANGE SET	—

**For Union Mounted Pumps**

For Use with the Following Models	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
UP15-42SU	1	SET	66430	519850 1/2" BRNZ UNION ISOLATION VLV SET	—
UP15-42SU	1	SET	66431	519852 3/4" BRNZ UNION ISOLATION VLV SET	—
UP15-42SU	1	SET	66432	529911 3/4" BRONZE UNION SWEAT FITTING SET	—

**Flange Gaskets**

Cast Iron or Bronze Flanges, UP15, 25, and 26	1	EA	66357	510179 1-1/4" FLANGE GASKET	—
All Bronze Isolation Flanges, UP15, 25, and 26	1	EA	66356	510231 BRONZE ISOLATION FLANGE GASKET	—
Cast Iron or Bronze Flanges, UP43	1	EA	66344	530244 1-1/2" FLANGE GASKET	—



**Hot Water Circulating Pump Motors**



- 50° C ambient
- Reversible rotation resilient hub rings
- Special balance for quiet operation
- Painted red
- Class A insulation
- Sleeve bearings have all angle thrust system
- Units match OEM performance and features
- Coupler assembly required for proper Bell & Gossett replacement
- Discount symbol: DS-3FMP

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65351	3255 1/12 115V SPLIT PHASE CIRCULATING PUMP MOTOR - 4.63 BOLT CIRCLE	—
1	EA	65354	3256 1/6HP 115V SPLIT PHASE CIRCULATING PUMP MOTOR - 4.63 BOLT CIRCLE	—
1	EA	65358	3257 1/6HP 115V SPLIT PHASE CIRCULATING PUMP MOTOR - 5.0 BOLT CIRCLE	—
1	EA	65379	3259 1/4HP 115V SPLIT PHASE CIRCULATING PUMP MOTOR - 5.00 BOLT CIRCLE	—
1	EA	65386	3261 3/4HP 115 / 208-230V CAPACITOR START PUMP MOTOR - 5.86 BOLT CIRCLE	—
1	EA	65245	3263 3/4HP THREE PHASE CIRCULATING PUMP MOTOR - 5.86 BOLT CIRCLE	—



**Bell & Gossett Hydronic Specialties**

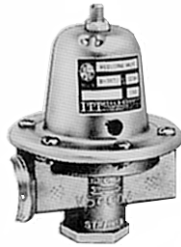
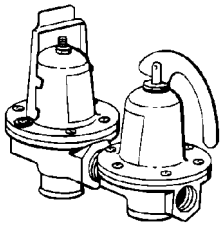


ATF Tank Fitting

Compression Tank

Backflow Preventer

T-451 Check Valve



F-3

B-38 & B7-12

FB-38 Reducing

DT2 Drain-O-Tank

SA Flo Control

**Airtrol Tank Fittings**

The Airtrol System is designed to maintain the right amount of air in the compression tank. Therefore it is important to match the Airtrol Tank Fittings as closely as possible to the diameter of the tank being used.

**Backflow Preventer**

Bronze construction with 1/2" NPT connection. Operating pressure 175 PSI meets ASSE Standard 1012 and is accepted by the state of Indiana plumbing code.

**Reducing Valves**

Reducing valves fill the system to a preset pressure for optimum performance.

- Fast fill feature reduces start-up time and labor.
- Low inlet pressure check valve helps prevent loss of system pressure if the supply water drops below system pressure.
- Convenient cleanable strainer is designed to prevent dirt and sediment from entering the system.
- Union connection available with 1/2 inch male NPT thread and 1/2 inch female sweat tail-piece for fast, flexible system connection.
- Brass body construction is highly resistant to corrosion, ideal for water systems.

**DT-2 Drain-O-Tank® Air Charger**

The Drain-O-Tank Air Charger offers a sure, quick way to recharge a water-logged compression tank.

**Working Pressure:** 125 psig

**Maximum Operating Temperature:** 240° F

**Flo-Control™ Valves**

- Flo-Control Valves prevent gravity flow in forced hot water systems, and permit summer/winter operation of indirect water heaters.
- Combination straight/angle configurations in sizes 3/4 inch to 1-1/2 inch for ease of installation.
- Removeable top cap allows easy cleaning and service without removing pipe connections.
- Manual operating position for vertical lift disc to permit gravity circulation.

**Tank Fittings**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	65349	112008 ATF-9 TANK FITTING	—
12	EA	65350	112010 ATF-12 TANK FITTING	—

**Standard Compression Tanks**

1	EA	65373	G818015 12X30 COMPRESSION TANK	—
1	EA	65374	G818018 12X36 COMPRESSION TANK	—
1	EA	65375	G818030 12X60 COMPRESSION TANK	—

**Backflow Preventer**

1	EA	65336	110914 1/2" BACKFLOW PREVENTER	—
5	EA	52800	113-D25 1/2 X 2 1/2 BRASS NIPPLE	—

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**Threaded Check Valves**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	68530	T-451 3/4IN CHECK VALVE	—
1	EA	68531	T-451 1IN CHECK VALVE	—
1	EA	68532	T-451 1 1/4IN CHECK VALVE	—

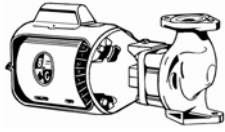
**Relief, Reducing, Combination Valves, and Drain-O-Tank Air Charger**

12	EA	65332	110190 B-38 1/2 IN REDUCING VALVE	—
1	EA	65334	110192 FB-38 1/2 IN REDUCING VALVE W/FASTFILL	—
12	EA	65333	110196 B7-12 3/4 IN REDUCING VALVE	—
1	EA	65338	110197 F-3 1/2 IN BRASS DUAL UNIT VALVE W/FASTFILL	—
1	EA	65335	113041 DT2 DRAIN-O-TANK AIR CHARGER	—
1	EA	65286	189160 STRAINER AND GASKET	—

**Flo-Control Valves Straight-Angle Pattern**

6	EA	65345	107034 SA3/4 IN FLO CONTROL VALVE	—
6	EA	65346	107018 SA1 IN FLO CONTROL VALVE	—
6	EA	65347	107019 SA1-1/4 IN FLO CONTROL VALVE	—
6	EA	65348	107020 SA1-1/2 IN FLO CONTROL VALVE	—

 Bell & Gossett **Booster Pumps, Circulators, and Flanges**



100 Series

**100NFI, 100BNFI 2NFI, and HVNFI**  
Bell & Gossett in-line oil lubricated booster pumps are designed for hydronic systems.

**LR20WF**  
The Little Red close-coupled booster pump is specifically designed for quiet operation in solar and hydronic systems.



NRF-25, NBF-25

**NRF-25, NBF-25**

This flanged in-line system lubricated circulating pump is designed specifically for quiet operation in a closed hydronic heating system.

NRF-25: Cast iron

NBF-25: Bronze

**Date Of Manufacture Code**

(The date code is made up of two or three characters depending upon the year.)

1946-1960 Two characters. The number denotes the month. The letter denotes the year.				1961-1982 Two characters. The first letter is month. The second letter is the year.				1983-Present Three characters. The letter denotes the month. The numbers denote the year.			
1	January	G	1946	A	January	A	1961	A	January	38	1983
2	February	H	1947	BC	February	B	1962	B	February	48	1984
3	March	J	1948	D	March	C	1963	C	March	58	1985
4	April	K	1949	E	April	D	1964	D	April	68	1986
5	May	L	1950	F	May	E	1965	E	May	78	1987
6	June	M	1951	G	June	F	1966	F	June	88	1988
7	July	N	1952	H	July	G	1967	G	July	98	1989
8	August	P	1953	J	August	H	1968	H	August	09	1990
9	September	R	1954	K	September	J	1969	J	September	19	1991
10	October	T	1955	L	October	K	1970	K	October	29	1992
11	November	U	1956	M	November	L	1971	L	November	39	1993
12	December	V	1957		December	M	1972	M	December	49	1994
		W	1958			N	1973			59	1995
		X	1959			P	1974			69	1996
		Y	1960			R	1975			79	1997
						T	1976			89	1998
						U	1977			99	1999
						V	1978			00	2000
						W	1979			10	2001
						X	1980			20	2002
						Y	1981			30	2003
						Z	1982			40	2004
										50	2005

**3-Piece Oil Lubricated Booster Pumps**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65364	106507 LR20-WR 1/20HP CAST IRON PUMP L/FLANGES	—
1	EA	65362	106197 100BNFI 1/12HP BRONZE PUMP L/FLANGES	—
1	EA	65363	106189 100NFI 1/12HP CAST IRON PUMP L/FLANGES	—
1	EA	65366	102214 2NFI 1/6HP 2IN CAST IRON PUMP W/FLANGES	—
1	EA	65369	102210 HVNFI 1/6HP 1IN CAST IRON PUMP L/FLANGE	—

**Maintenance Free Wet Rotor Circulator Pumps**

1	EA	61542	103417 NRF-25 3 SPEED CAST IRON PUMP L/FLANGES	—
1	EA	61938	103418 NBF-25 3 SPEED BRONZE PUMP L/FLANGES	—

**Flange Sets**

1	PR	65359	118347 3/4" BRONZE FLANGE SET	—
1	PR	65370	118346 3/4" FLANGE SET	—
1	PR	65371	118355 1" FLANGE SET	—
1	PR	65228	118356 1" BRONZE FLANGE SET	—
1	PR	65383	118370 1-1/4" FLANGE SET	—
1	PR	65384	118375 1-1/2" FLANGE SET	—

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**Isolation Flanges with Built-in Ball Valve**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PR	65249	101226 3/4"SWT X FLG ISOLATION FLANGE W/BALL VALVE	—
1	PR	65251	101227 1"SWT X FLG ISOLATION FLANGE W/BALL VALVE	—
1	PR	65264	101228 1-1/4"SWT X FLG ISOLATION FLANGE W/BALL VALVE	—

**HV Flanges**

1	PR	65387	118354 1" FLANGE SET	—
1	PR	65388	118372 1-1/4" FLANGE SET	—
1	PR	65361	118374 1-1/2" FLANGE SET	—

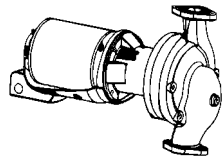
**Seal Kits**

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1510, 1531, Series 80, Series 90All Iron Constructions	1	EA	65680	186862 SEAL KIT #1	—
PD-38-39-40, Series 60, Series 90, 1535	1	EA	65681	186499 SEAL KIT #2	—
	1	EA	65684	118681 SEAL KIT #7	—
1510, 1531, Series 80	1	EA	65683	186543 SEAL KIT #8	—



**Bell & Gossett**

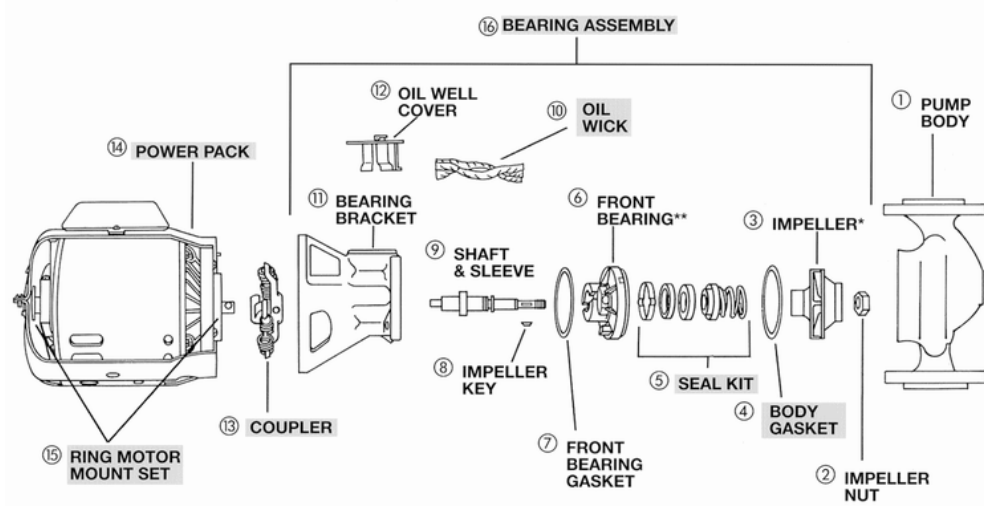
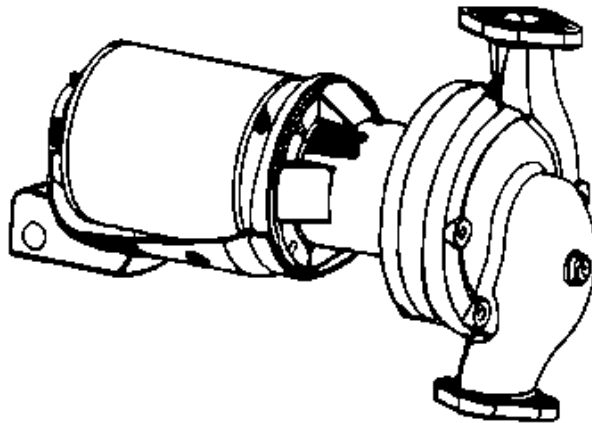
**Series 60 Inline Centrifugal Pumps**



The 60 Series features a maintenance free pump and motor design that provides worry free, install and forget operation. These pumps are for use in hydronic heating and cooling systems, domestic water, industrial and general service.

Pipe Size Suction	Pipe Size Discharge	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1-1/4	1-1/4	1	EA	65703	172708 605S 115/230V 1/3HP 1PH PUMP	—
1-1/4	1-1/4	1	EA	65704	172667 606S 115/230V 1/2HP 1PH PUMP	—
1-1/2	1-1/2	1	EA	65705	172668 609S 115/230V 3/4HP 1PH PUMP	—
2	2	1	EA	65706	172669 612S 115/230V 1HP 1PH PUMP	—
1-1/4	1-1/4	1	EA	65707	172732 605T 208/230/460V 1/3HP 3PH PUMP	—
1-1/4	1-1/4	1	EA	65708	172733 606T 208/230/460V 1/2HP 3PH PUMP	—
1-1/2	1-1/2	1	EA	65710	172739 609T 208/230/460V 3/4HP 3PH PUMP	—
2	2	1	EA	65712	172745 612T 208/230/460V 1HP 3PH PUMP	—

**B & G** Bell & Gossett **Parts Identification**

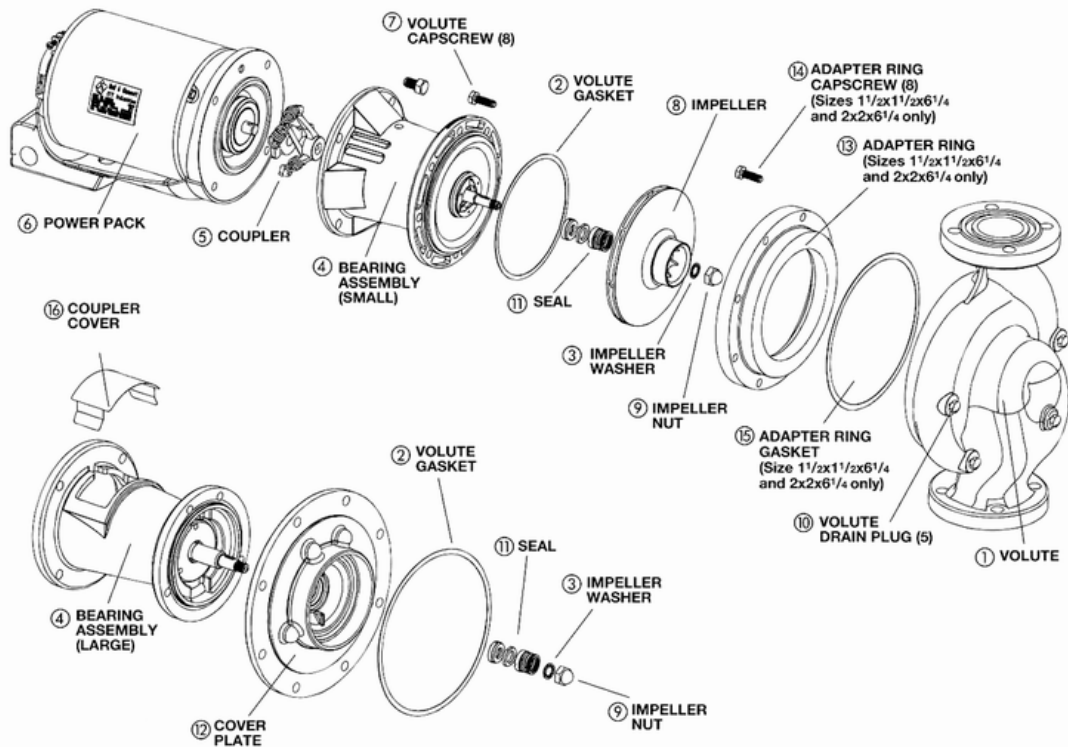


Circulator replacement parts for Series 100, Series HV, 2?, PR, 2-1/2?, LD-3 and HD-3 Models.

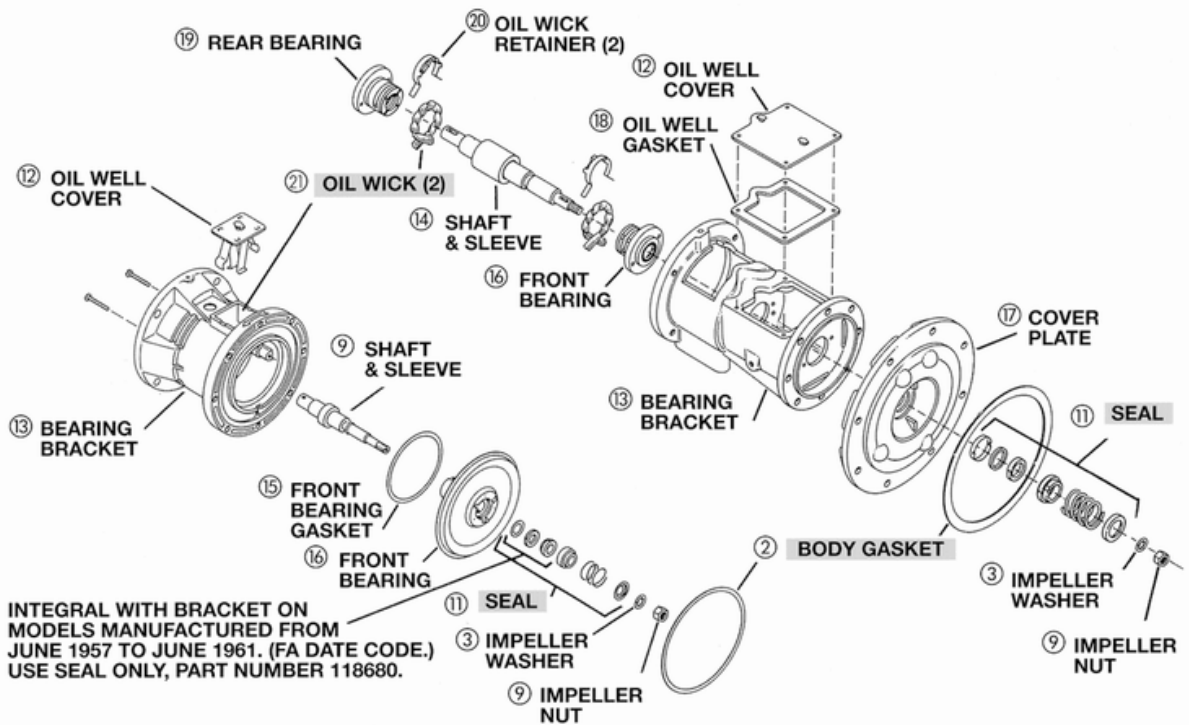
\* Impeller not always included in bearing assembly.

\*\* Shown rotated 90°.

**B & G** Bell & Gossett **Parts Identification**



NOTE: Use liquid sealant in place of bearing gaskets on PD38, PD39, and PD40 pumps.



PD 35 & 37,  
SERIES 60 "AA"  
& SERIES 1522

PD 38, 39 & 40  
SERIES 60 "A"  
& SERIES 60 2 1/2 F

 Bell & Gossett **Replacement Parts**

**Parts for Series 100 (Manufactured after November 1956)**

Additional Product Information	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
100 NFI, 100 BI, 100 AB, 100 BNFI	1	EA	65367	111034 1/12 HP MOTOR	—
100 NFI, 100 BI, 100 AB, 100 BNFI	1	SET	65397	118223 MTG RING	—
100 NFI, 100 BI, 100 AB, 100 BNFI	1	SET	65380	118368 FLANGE GASKET SET	—
100 NFI, 100 BI, 100 AB, 100 BNFI	1	SET	65657	118395 OIL WICK	—
100 BI, 100 AB	1	EA	65470	118431 IMPELLER	—
100 NFI, 100 BI, 100 AB, 100 BNFI	1	EA	65684	118681 SEAL KIT #7	—
Cast Iron, 100 NFI, 100 BI, 100 AB, 100 BNFI	1	EA	65649	118705 COUPLER	—
100 NFI, 100 BI	1	EA	65403	118844 BEARING ASSY	—
100 AB, 100 BNFI	1	EA	65398	189034 BRONZE BEARING ASSY	—
Stamped Steel, 100 NFI, 100 BI, 100 AB, 100 BNFI	1	EA	65391	189110 COUPLER	—
100 NFI, 100 BNFI	1	EA	65405	189132 IMPELLER	—
—	1	EA	65399	L23401 B & G PUMP OIL TUBE	—
100 NFI, 100 BI, 100 AB, 100 BNFI	1	EA	65389	P04080 BODY GASKET	—

**Parts for Little Red (LR)**

100 NFI, 100 BI, 100 AB, 100 BNFI	1	SET	65380	118368 FLANGE GASKET SET	—
	1	EA	65543	189141 SEAL REPAIR KIT	—

**Parts for Series HV and 2" (Manufactured after January 1976)**

Used With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
—	1	EA	65378	111061 1/6 HP 5 IN MOTOR	—
—	1	SET	65397	118223 MTG RING	—
2" Pumps	1	SET	65544	118378 GASKET SET	—
—	1	SET	65657	118395 OIL WICK	—
HV Pumps	1	SET	65376	118373 FLANGE GASKET SET	—
Cast Iron	1	EA	65649	118705 COUPLER	—
Stamped Steel	1	EA	65391	189110 COUPLER	—
—	1	EA	65400	189128 IMPELLER	—
—	1	EA	65431	189165 BEARING ASSY CI OR BRNZ	—
—	1	EA	65399	L23401 B & G PUMP OIL TUBE	—
—	1	EA	65390	P04890 BODY GASKET	—

**Parts for Series HV and 2" (Manufactured Between January 1951 and June 1976)**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	SET	65377	118065 GASKET SET	—
1	EA	65407	118436 IMPELLER	—
1	EA	65660	118668 IMPELLER	—
1	EA	65684	118681 SEAL KIT #7	—
1	EA	65432	189162 BEARING ASSY CI OR BRNZ	—
1	EA	65433	189163 BEARING ASSY CI OR BRNZ	—

**Parts for PR, 2-1/2", LD-3, and HD-3 (Manufactured After 1950)**

Product Information	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
2-1/2", LD-3	1	EA	65341	111040 1/4HP 115V MOTOR	—
HD-3	1	EA	65342	111042 1/3HP 115/230V MOTOR	—
PR	1	EA	65368	111031 1/6 HP MOTOR	—
2-1/2~B2, LD-3, and HD-3	1	SET	65547	118129 GASKET SET	—
—	1	SET	65397	118223 MTG RING	—
2-1/2", LD-3, HD-3	1	SET	65396	118228 MTG RING	—
PR	1	SET	65380	118368 FLANGE GASKET SET	—
—	1	SET	65657	118395 OIL WICK	—
—	1	EA	65546	118440 BRONZE IMPELLER	—
2-1/2", LD-3	1	EA	65545	118676 STEEL IMPELLER	—
—	1	EA	65684	118681 SEAL KIT #7	—
PR-Cast Iron	1	EA	65649	118705 COUPLER	—
2-1/2~B2, LD-3, and HD-3	1	EA	65392	118723 COUPLER	—
—	1	EA	65650	189105 BEARING ASSY	—
PR-Stamped Steel	1	EA	65391	189110 COUPLER	—
—	1	EA	65399	L23401 B & G PUMP OIL TUBE	—
—	1	EA	65653	P05800 BODY GASKET	—

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**Parts for Series PD**

For Models	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
PD-35	1	EA	65385	111044 1/2HP 115/230V 1PH MOTOR	—
PD-35	1	EA	65381	111046 1/2HP 208/230/460V 3PH MOTOR	—
PD-37	1	EA	65382	111047 3/4HP 115/230V 1 PH MOTOR	—
PD-37	1	EA	65355	111049 3/4HP 208/230/460V 3PH MOTOR	—
PD-35, 37, 38, 39	1	SET	65547	118129 GASKET SET	—
PD-35, 37	1	SET	65396	118228 MTG RING	—
PD-35, 37	1	SET	65657	118395 OIL WICK	—
PD-35, 37	1	EA	65673	118473 COUPLER	—
PD-35	1	EA	65492	118630 IMPELLER	—
PD-35, 37	1	EA	65670	118708 COUPLER	—
PD-35, 37	1	EA	65672	118709 COUPLER	—
PD-38, 39	1	EA	65236	169232 1HP 115/208-230V 1PH MOTOR	—
PD-38, 39	1	EA	65237	169233 1HP 208-230/460V 3PH MOTOR	—
PD-38, 39	1	EA	65337	185260 BEARING ASSY	—
PD-38	1	EA	65681	186499 SEAL KIT #2	—
PD-35	1	EA	65684	118681 SEAL KIT #7	—
PD-35, 37	1	EA	65655	186863LF BEARING ASSY	—
PD-38, 39	1	EA	65549	P04883 OIL WICK	—
PD-35, 37	1	EA	65668	P57410 VOLUTE GASKET	—
PD-38, 39	1	EA	65669	P57700 BODY GASKET	—



**Bell & Gossett Replacement Parts**

**Parts and Motors for Series 60 Maintenance Free Pumps**

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
PD-35, 37	1	EA	65673	118473 COUPLER	—
	1	EA	65230	169226 1/3HP 115/208-230V 1PH MOTOR	—
	1	EA	65231	169227 1/3HP 208-230/460V 3PH MOTOR	—
	1	EA	65232	169228 1/2HP 115/208-230V 1PH MOTOR	—
	1	EA	65233	169229 1/2HP 208-230/460V 3PH MOTOR	—
	1	EA	65234	169230 3/4HP 115/208-230V 1PH MOTOR	—
	1	EA	65235	169231 3/4HP 208-230/460V 3PH MOTOR	—
	1	EA	65469	185329 COUPLER	—
	1	EA	65468	185332 BEARING ASSY	—

**Parts and Motors for Series 60 Pumps**

PD-35	1	EA	65385	111044 1/2HP 115/230V 1PH MOTOR	—
PD-35	1	EA	65381	111046 1/2HP 208/230/460V 3PH MOTOR	—
PD-37	1	EA	65382	111047 3/4HP 115/230V 1 PH MOTOR	—
PD-37	1	EA	65355	111049 3/4HP 208/230/460V 3PH MOTOR	—
	1	EA	65357	118626 IMPELLER	—
PD-38, 39	1	EA	65237	169233 1HP 208-230/460V 3PH MOTOR	—
	1	EA	65638	169037 1/4HP 208/230/460V 3PH MOTOR	—
	1	EA	65344	169035 1/4HP 115V 1PH MOTOR	—
	1	EA	65353	169038 1/3HP 115/230V 1PH MOTOR	—
PD-38, 39	1	EA	65236	169232 1HP 115/208-230V 1PH MOTOR	—
PD-38, 39	1	EA	65337	185260 BEARING ASSY	—
	1	EA	65356	186410 COUPLER	—
PD-35, 37	1	EA	65655	186863LF BEARING ASSY	—

**Parts for Series 80, 1510, and 1531**

	1	EA	65227	185011 BEARING ASSY	—
	1	EA	65225	185140 1-1/4" SHAFT SLEEVE	—
	1	EA	65226	185142 1-5/8" SHAFT SLEEVE	—
	1	EA	65683	186543 SEAL KIT #8	—
	1	EA	65680	186862 SEAL KIT #1	—
	1	EA	65679	P48690 GASKET	—
PD-38, 39	1	EA	65669	P57700 BODY GASKET	—



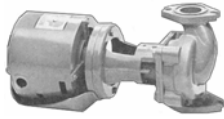


## Pumps and Accessories

### Flanges, Zone Valves, Zone Switching Relays and Parts



007-F7



110



00R and 0010



Flanges



Zone Valve



Actuator

#### 007-F7 Cartridge Circulator

The new 007-F7 features a high efficiency design and a unique black iron oxide barrier to resist system dirt. It provides the same 007 performance with lower power consumption. The cartridge is easily accessed for removal and service.

#### 110 Red Baron Circulator

This residential seal type circulator features one-piece, high tension spring steel coupler, rugged bronze sleeve bearing assembly, oil saturated felt pad lubrication system, stainless steel shaft, and a one-piece dynamically balanced impeller.

#### 00R 3-Speed Pump

Designed for the flow and head requirements of today's radiant heat systems. Its 3-speed switching capability provides fine tuning control to match a wide combination of tube diameters and length of runs.

#### 0010 3-Speed Service Pump

Ideal for use on any emergency "no-heat" call. The four bolt flange matches up to any pump regardless of style, type or age.

#### Shut-Off Flanges for "00" Pumps

Features: 2 piece design, 1/4" steel flange. Dual teflon seated solid brass ball. Upgraded stem seal. Available in 3/4", 1" and 1-1/4" threaded connections.

#### Bronze Freedom Flanges

Features: Fits all "00" circulators. Available in ductile iron (stronger than cast iron), 3/4" to 2". Bronze threaded, 3/4" to 2". Bronze sweat, 3/4" to 1-1/2".

#### Zone Valves

Each zone valve has its own thermostat which allows accurate temperature control of individual rooms or groups of rooms. For closed loop heat-ing system only.

Features: Packless construction; Beryllium copper bellows is used for permanent leakproof operation. Heavy cast brass body with sweat connections. Globe valve construction with resilient seat for tight shut-off. Heavy motor functions silently.

#### Zone Switching Relay

Features: External indicator lights and fully enclosed snap-out relays. Has an isolated end switch and 24 Volt power input or output terminal. 3 year warranty.

### Pumps

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65498	0011-F4-2IFC TACO PUMP W/IFC	—
1	EA	69487	007-F7 1/30 HP CARTRIDGE CIRCULATOR	—
1	EA	65763	110-24 1/12 HP 115VOLT CAST IRON CIRCULATOR	—

### 3-Speed Pumps

1	EA	65475	0010-MSF1-IFC 3 SPD SERVICE PUMP CIRCULATOR	—
1	EA	65502	00R-MSF1-4IFC 0015 3SPD PUMP CIRCULATOR	—

### Flanges

1	SET	65402	243-1 3/4IN THREADED SHUT-OFF FREEDOM FLANGE FOR 00 PUMPS	—
1	EA	65739	110-523BSF 3/4IN BRONZE SWEAT FLANGE SET	—
1	EA	65741	110-524BSF 1IN BRONZE SWEAT FLANGE SET	—
1	EA	65743	110-525BSF 1-1/4IN BRONZE SWEAT FLANGE SET	—
1	EA	65746	110-251F 3/4IN FLANGE SET F/00 PUMPS	—
1	EA	65747	110-252F 1IN FLANGE SET F/00 PUMPS	—
1	EA	65748	110-253F 1 1/4IN FLANGE SET F/00 PUMPS	—
1	EA	65749	110-254F 1 1/2IN FLANGE SET F/00 PUMPS	—
1	EA	83728	SF-075S 3/4IN BRASS SHUT-OFF FREEDOM SWIVEL FLANGE	—
1	EA	83729	SF-100S 1IN BRASS SHUT-OFF FREEDOM SWIVEL FLANGE	—
1	EA	83730	SF-125S 1 1/4IN BRASS SHUT-OFF FREEDOM SWIVEL FLANGE	—

**Boiler Zone Controls and Valves**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65319	329-3 1/2IN FAST FILL REDUCING VALVE	—
1	EA	65777	571-2 3/4IN TACO ZONE VALVE	—
1	EA	64973	572-3 1IN TACO ZONE VALVE	—
1	EA	65420	PC700-2 BOILER RESET CONTROL	—
1	EA	65421	PC705-2 VARIABLE SPD PUMP INJECTION MIXING CONTROL	—
1	EA	65427	SR501-2 1 ZONE SWITCHING RELAY	—
1	EA	65428	SR502-4 2 ZONE SWITCHING RELAY W/PRIORITY	—
1	EA	65429	SR503-EXP-1 3 ZONE SWITCHING RELAY W/PRIORITY AND 3 POWER PORTS	—
1	EA	65450	SR504-EXP-1 4 ZONE SWITCHING RELAY W/PRIORITY AND 3 POWER PORTS	—
1	EA	65453	SR506-EXP-1 6 ZONE SWITCHING RELAY W/PRIORITY AND 3 POWER PORTS	—
1	EA	66526	ZA024Q4A1 24V 1/2IN SWT ZONE SENTRY AND EVB NC ACTUATOR HEAD	—
1	EA	65454	ZVC406-EXP-2 6 ZONE VALVE CONTROL W/PRIORITY AND POWER PORTS	—
1	EA	63898	ZVC406-EXP-4 6 ZONE VALVE CONTROL W/PRIORITY AND POWER PORTS	—

**Parts**

Fits the Following Units	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
007 Pump	1	SET	65756	007-007RP FLANGE GASKET SET	—
007 Pump	1	EA	65770	007-042RP CAST IRON CARTRIDGE	—
007 Pump	6	EA	65767	007-045RP BRONZE CARTRIDGE	—
110, 11, 12, 13, 17B	1	EA	65772	110-009RP TACO COUPLER	—
007 & 100 Pumps	1	SET	65764	110-023RP FLAT FLANGE GASKET SET	—
HC, 110, 110C	1	EA	65773	110-361RP TACO BRACKET ASSEMBLY	—
555 Zone Valve	1	EA	65766	555-050RP TACO POWER UNIT	—
1600 Pump	1	EA	65751	1600-160RP-1 CARTRIDGE BEARING	—
1600 Pump	1	SET	65752	1600-169RP FLANGE GASKET SET	—
1600 Pump	1	KIT	65753	1600-868CRP 1600-846CRP 1700RP SEAL KIT	—
1600 Pump	1	EA	65771	1624-053RP COUPLER	—
1/2" Zone Valve	1	EA	65760	E050C2-3 1/2IN SWEAT ELECTRONIC BALL VALVE	—
654 Zone Valve	1	EA	65424	SR024-001RP 24VOLT REPLACEMENT RELAY	—
3/4" Zone Valve	1	EA	65322	Z075C2-1 3/4IN ZONE SENTRY	—
1" Zone Valve	1	EA	65323	Z100C2-1 1IN ZONE SENTRY	—

**Boiler Accessories**



FC431 Air Purger



700P Tunstall



HT15 #15 Tank



109, 110 Fill-Trol

**Diaphragm Type Expansion Tanks**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-5	PC-2 6
1	EA	65409	AP400/U (431F) 1" AIR PURGER	—	—
1	EA	65410	AP401/U 1-1/4" (432F) AIR PURGER	—	—
1	EA	65411	AP402/U (433F) 1-1/2" AIR PURGER	—	—
1	EA	65414	700P DOLE HYDRONIC VENT	—	—
1	EA	65422	HTX90 #90 15 GALLON TANK	—	—
1	EA	65441	HTX15 #15 2.1 GALLON TANK	—	—
1	EA	65442	HTX30 #30 4.5 GALLON TANK	—	—
1	EA	65443	HTX60 #60 6 GALLON TANK	—	—

**Fill-Trol Expansion Tanks**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	68110	109 FILL-TROL 2 GALLON EXPANSION TANK PKG	—
1	EA	68111	110 FILL-TROL 4.4 GALLON EXPANSION TANK PKG	—

# Honeywell Hydronic Controls



AQ1000TN2



AQ250



AQ251



AQ254



AQ255

### Communicating Thermostat

- Communication enables easy 2-wire "polarity insensitive" installation for quick and easy wiring of both retrofit and new construction jobs.
- Can display temperature as Fahrenheit or Celsius.
- Easy-to-read backlit display.
- Settings memory retained on power loss.
- Separate installer set-up and homeowner menus.

### AQ250 and AQ25A Relay Control Panels

- For up to 4 zones
- 1-stage zoning
- Controls pumps or zone valves
- Can be expanded to a total of 16 zones with AQ255 zoning expansion panels.

### AQ251 Reset Control Panels

- The features of AQ250 plus:
- Customizable control settings and schedules allow for greater level of control and comfort.
- Outdoor temperature compensation (reset)
- Allows outdoor temperature to be displayed on all thermostats
- Central set-back schedules available

### AQ254 Expansion Control Panel

- Controls one mixed temperature loop
- Outdoor temperature compensation (reset)
- Zone synchronization
- Customizable control settings

### AQ255 Expansion Panels

- AQ255 controls up to 16 zone valves without end switches
- Zone synchronization
- Auto test function to test zones at system start up

### Communicating Thermostat

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	73837	AQ1000TN2 NON-PROGRAMMABLE 2-WIRE THERMOSTAT	—
1	EA	73836	AQ12C20 SLAB FLOOR SENSOR	—

### Control Panels

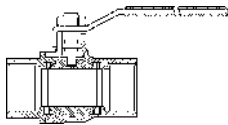
1	EA	73833	AQ25042B/U CONTROLLER WITH DHW PRIORITY 4 ZONES OF PUMPS	—
1	EA	73831	AQ25110B RESET CONTROLLER WITH DHW PRIORITY	—
1	EA	73847	AQ25A42B PROGRAMMABLE RELAY CONTROL PANEL 4 ZONE PUMP/VALVE	—
1	EA	73848	AQ25242B UNIVERSAL INJECTION/MIXING BOILER RESET CONTROL PANEL	—

### Expansion Panels

1	EA	73832	AQ25400B ADD-A-TEMPERATURE EXPANSION CONTROL PANEL	—
1	EA	73834	AQ25542B ZONING PANEL FOR 4 PUMPS EXPANSION PANEL	—
1	EA	73835	AQ25582B ZONING PANEL FOR 8 PUMPS EXPANSION PANEL	—



## 7700T Series Fully Ported Ball Valves For Gas Service



- For water, oil, and steam service.
- Cast bronze body.
- Meets Federal Specification WW-V-35C, Type II, Class A Style 3 end connections A and C (threaded and solder).

**Pressure Ratings:** Water, air, steam, and non-combustible gases: 1/2" to 2"; 600 PSI WOG cold, non-shock, 150 WSP.

Vacuum Service: 20" mercury

**AGA Listed:** Z21.15 standard for 1/2" through 2" at 1/2 PSI for appliance shutoff applications.

**AGA Listed:** 3-88 for 1/2" through 2" at 5 PSI for inside building piping.

**ANSI and ASME Listed:** B16.33 for 1/2" through 1" at 125 PSI.

### Threaded Connection Ball Valves

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
20	EA	74800	107-823HC / B200T 1017 1/2IN BALL VALVE	—
15	EA	74801	107-824HC / B200T 1025 3/4IN BALL VALVE	—
10	EA	74802	107-825HC / B200T 1033 1IN BALL VALVE	—
4	EA	74803	107-826 / B200T 1041 1-1/4IN BALL VALVE	—
2	EA	74804	107-827 / B200T 1058 1-1/2IN BALL VALVE	—
2	EA	74805	107-828 / B200T 1066 2IN BALL VALVE	—

### Sweat Connection Ball Valves

25	EA	74806	107-843HC / B200S 7015 1/2IN BALL VALVE	—
15	EA	74807	107-844HC / B200S 7023 3/4IN BALL VALVE	—
10	EA	74808	107-845HC / B200S 7031 1IN BALL VALVE	—
4	EA	74809	107-846 / B200S 7049 1-1/4IN BALL VALVE	—
2	EA	74810	107-847 / B200S 7056 1-1/2IN BALL VALVE	—
2	EA	74811	107-848 / B200S 7064 2IN BALL VALVE	—

**Honeywell** **Thermostatic Radiator Valves and Valve Bodies**  
**Braukmann** For Two Pipe Systems



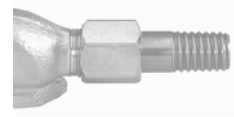
T104A



T104B



V110D



V110F

**T104A**

Direct mount control for high capacity system for use with V110 Series valve bodies. Air sensor built-in. Setting dial has guide marks (1-5) with selectable range limit stop at 68° F. This type of control requires mounting in horizontal position in good air flow.

Control Range: 46 to 83° F.

**T104B**

Control with combined remote set point and sensor mounted on a wall. Connected by a capillary tube to an actuator, which is mounted on the valve body. For use with V110 valve bodies.

**V110 High Capacity Radiator Valve**

Provide precise and automatic control of room temperature in two-pipe systems by modulating the flow of hot water or steam through free-standing radiators, convectors, and other heating units with high capacity requirements.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	74984	T104A 1040 THERM CONTROLLER	—
1	EA	74985	T104B 1038 THERM CONTROLLER	—
5	EA	74988	V110D 1000 1/2IN ST RADIATOR VALVE	—
5	EA	74989	V110D 1008 3/4IN ST RADIATOR VALVE	—
5	EA	74992	V110F 1002 1/2IN H/A RADIATOR VALVE	—
5	EA	74993	V110F 1010 3/4IN H/A RADIATOR VALVE	—



Bell & Gossett

## Watchman® Condensate Units

Open Drip Proof Motors Only, Single Phase 115/230V



Series WC: Cast Iron Receiver Condensate Unit

Delivery: 12 gpm

Series WCS: Steel Receiver Condensate Unit

Motor Horsepower: 1/3

Capacity Up to: 8,000 Sq. Ft. EDR

Receiver Capacity: 9 Gallons

Discharge Pressure: 21 psig

Approx. Shipping Weight: WC 160 lbs.; WCS 108 lbs.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65539	WC8-20B CAST IRON REC. CONDENSATE UNIT	—
1	EA	65540	WCS8-20B STEEL REC. CONDENSATE UNIT	—



## Steam Specialties Thermostatic Trap

Low Pressure up to 15 P.S.I.



WFT-15 is designed to provide continuous air venting and separate condensate draining with maximum efficiency and service. Maximum allowable pressure 250 psi @ 406° F. Stainless steel internal components.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65452	WFT-15 3/4IN FLOAT & THERMOSTATIC STEAM TRAP	—



## Low Pressure Thermostatic Traps

Pressures up to 25 PSI



This low pressure trap has cast brass body and cover. All working parts of non-corrosive metals. Single thermostatic element with flat valve assures maximum valve opening with minimum disc travel. Eliminates disc fatigue, erosion, wire drawing, or excessive wear of seat. Large seat opening prevents clogging.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65553	1 GAP 1/2IN ANGLE THERMOSTATIC THERMO TRAP	—
1	EA	65557	3 GHAP 3/4IN ANGLE THERMOSTATIC THERMO TRAP	—



## Radiator Valves



T-431



T-435



T-438

T-435: 1/2" to 1-1/2" gate valve with FIP x male union connections.

T-431: 1/2" to 2" angle valves, bronze body, FIP x male union connections.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
48	EA	65447	T-431 3/4IN STEAM ANGLE RADIATOR VALVE	—
36	EA	65449	T-435 1IN STEAM RADIATOR VALVE	—
1	EA	65533	T-431 1IN STEAM ANGLE RADIATOR VALVE	—
1	EA	65534	T-431 1-1/4IN STEAM ANGLE RADIATOR VALVE	—
1	EA	65535	T-438 3/4IN UNION ELBOW	—
1	EA	65536	T-438 1IN UNION ELBOW	—
1	EA	65537	T-438 1-1/4IN UNION ELBOW	—



## Hot Water Angle Valves



The T-437 hot water angle valves are constructed of heavy duty bronze. They have a screwed bonnet, rising stem and bronze disc. Each valve is tested twice: air under water, in the open and closed position.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	63897	T-437 I.P.S. 1IN HOT WATER ANGLE VALVE	—
7	EA	63895	T-437 I.P.S. 3/4IN HOT WATER ANGLE VALVE	—
7	EA	63890	T-437 I.P.S. 1/2IN HOT WATER ANGLE VALVE	—



## Cast Iron Strainer



250 WSP, 500 WOG threaded ends. 304 stainless steel 20 mesh screen. Closure plug furnished.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65448	T-17 3/4IN CAST IRON STRAINER	—

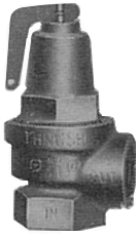


## Pressure Relief and Safety Valves



### 335 ASME Water Pressure Relief Valve

- Compact pressure relief valve for smaller hot water boilers.
- Bronze body
- Female inlet and outlet connections



### 174 and 374 ASME Water Pressure Relief Valves

For pressure protection of hot water heating boilers. Designed for emergency safety relief; not to be used as an operating control.

#### 174

- Bronze body
- Female inlet and outlet connections

#### 374

- Iron body
- Forged bronze female inlet



### 315 and 415 ASME Steam Safety Valves

Provide protection for any low pressure steam heating equipment operating up to 15 psi.

#### 315

- Bronze body
- NPT threaded male inlet and threaded female outlet (drain) connections

#### 415

- Brass body
- NPT threaded male inlet and threaded female outlet (drain) connections

Size (In.)	Capacity at Set Pressure	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
3/4	510,000 BTU/Hr at 30 psi	50	EA	65736	335-M1 0342670 3/4IN 30 PSI PRESSURE RELIEF VALVE	—	—
3/4	650,000 BTU/Hr at 30 psi	25	EA	65591	174A 3/4IN 100PSI WATER RELIEF VALVE 100PSI	—	—
3/4	550,000 BTU/Hr at 30 psi	25	EA	65590	374A 3/4IN 30PSI RELIEF VALVE 30 LBS	—	—
3/4	375 lbs./hr. at 15 psi	25	EA	65595	315-M1 3/4IN X 3/4IN 15PSI STEAM VALVE 15 LBS	—	—
3/4	450 lbs./hr. at 15 psi	25	EA	65596	415-M1 3/4IN X 3/4IN 15PSI STEAM VALVE 15 LBS	—	—



## Boiler Drain



R-670



T-521

### R-670 Ecoturn Boiler Drain

- 1/4" Turn Ball Type valve

### T-521 Boiler Drain

- Meets ANSI/NSF 61-8
- 125 WOG MIPX hose
- 1/2" has combination 1/2" MIP and 1/2" solder inlet connection.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65255	R-670 1/2IN ECOTURN BRASS MALE BOILER DRAIN	—
1	EA	65256	R-670 3/4IN ECOTURN BRASS MALE BOILER DRAIN	—
100	EA	65541	T-521 1/2IN BOILER DRAIN	—
100	EA	65542	T-521 3/4IN BOILER DRAIN	—





## P&T Relief Valves



1XL and 100XL: temperature relief 210° F.

**Replacement of P&T Valves:** To comply with FHA, AGA, and ASA requirements any water heater input in excess of 15,000 BTU must use a 3/4" relief valve.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-9	PC-2 10
25	EA	65709	1XL 1/2IN 125PSI TEMPERATURE WATTS P&T VALVE 125#	—	—
50	EA	65702	100XL 3/4IN 125PSI TEMPERATURE WATTS P&T VALVE 125#	—	—
50	EA	65711	100XL 3/4IN 150PSI TEMPERATURE WATTS P&T VALVE 150#	—	—



## P & T Valve

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62066	9000071005 3/4IN T&P VALVE 150#	—



## Gauge Glass and Cutter for Steam Boilers



H1-18 Gauge



GGW-6812



The 997 Gauge Glass Cutter cuts up to 3/4" O.D. glass and also cuts oil burner insulators.

Gauge Glass Cutter

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65624	510-218-145 GAUGE COCK	—
1	EA	65626	997 GAUGE GLASS CUTTER	—
100	EA	65622	GGW-6812 GASKET	—
6	EA	65625	H1-18 5/8 X 18 STANDARD GAUGE GLASS	—



## Air Eliminating Devices



1P



9P



10P



10-4P



11P



31P



90-1

No. 1P Angle Valve is adjustable to balance steam distribution, has a 1/8" angle connection for radiators, and is chrome plated.

No. 9P Coin Valve has a 1/8" NPT connection.

No. 10P Key Valve has a 1/8" NPT connection.

No. 11P for radiators, has a 1/8" connection, and is nickel plated.

No. 14 Key Air Valve assembly has a 20" tubing length and 1/8" NPT connection.

No. 31P for convectors, pipe coils, etc., is nickel plated.

No. 75 Float Vent for convectors, mains, and risers, has a 1/4" copper drain connection.

No. 90-1 for mains, has a 3/4" male x 1/2" female connection.

Dole Description	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
No. 1A Vari-Vent Valve	12	EA	65499	1P 1/8 IN ANGLE DOLE VALVE	—	—
No. 9 Coin Valve, Sub. for 72 Main-O-Mist Air Vent	24	EA	65513	9P DOLE COIN VALVE	—	—
No. 10 Key Valves	24	EA	65510	10P DOLE KEY VALVE	—	—
No. 10 Key Valves	48	EA	65509	10-4P DOLE KEY ONLY	—	—
No. 1933 Angle Valve	12	EA	65506	11P 1/8 IN ANGLE DOLE VALVE	—	—
No. 14 Key Air Valve Assembly	12	EA	65511	14 DOLE KEY AIR VALVE ASSY	—	—
No. 1933 Straight Shank Valve	24	EA	65507	31P 1/8 IN STR DOLE VALVE	—	—
75	12	EA	65500	75 DOLE AUTOMATIC FLOAT VENT	—	—
90-1	12	EA	65501	90-1 3/4 M X 1/2 F STRAIGHT AIR VALVE	—	—

## Honeywell EA122A Air Vent Braukmann



For use with hot water systems. Purges air trapped in closed systems. This vent is easy to service and clean with removable float valve assembly and built-in brass shut-off valve.

**Maximum Temperature:** 212° F.

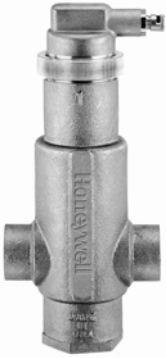
**Maximum Pressure:** 90 PSI.

**Air Capacity:** 117 cfh at 30 PSI.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	74975	EA122A1002/U 1/8IN AIR VENT	—

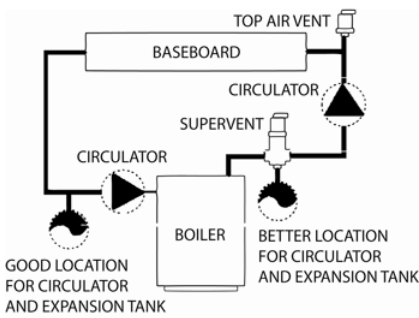
# Honeywell Honeywell Supervent

## Hydronic Air Elimination Products



The unique design of the Honeywell PV Series SuperVent breaks apart air bubbles, absorbs stagnant air pockets and eliminates troublesome air from hydronic heating systems. This results in the elimination of annoying gurgling and sometimes costly maintenance. Its rugged design stands up to tough conditions and continuous service, providing you with leak-proof operation, reduced service intervals and the elimination of callbacks.

- Adjustable Vent Top Collar Ring allows easier installation and application flexibility.
- High Temperature Thermoplastic Float controls venting rate under continuous operation.
- Bronze Body durable construction with no ferrous materials.
- No-Clog Vent for peace of mind, no leaking or callbacks.
- Debris Baffle to control dirt fouling and prevent failure.
- Encapsulated O-Ring for leak-proof cap seal.
- Stainless Steel Concentrator-a patented and more efficient way to eliminate air. (US Patent No. 5,490,874)
- Brass Bottom Plug for expansion tank mounting, ease of installation and maintenance.



Cv	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
13	1	EA	66509	PV075S/U 3/4" HORIZ SUPERVENT SWEAT	—
22	1	EA	66510	PV100S/U 1" HORIZ SUPERVENT SWEAT	—
38	1	EA	66511	PV125S/U 1-1/4" HORIZ SUPERVENT SWEAT	—
53	1	EA	66512	PV150/U 1-1/2" HORIZ SUPERVENT NPT	—
3.6	1	EA	66513	PVU075 3/4" VERT SUPERVENT	—
6.2	1	EA	66514	PVU100/U 1" VERT SUPERVENT	—
95	1	EA	66515	PV200/U 2" HORIZ SUPERVENT	—
95	1	EA	66516	PV200T/U 2" HORIZ SUPERVENT	—
	1	EA	66517	PV020RP/U SUPERVENT SUPERVENT TOP AIR VENT	—



## Air Eliminator



Taco Hy-Vents have become the industry standard for dependable long life service. The high capacity float style vents can be placed either on the boiler or at the high points throughout the system. Now with operating pressure ratings of up to 250 psi, the brass body, nickel plated vents meet the system requirements of even the largest installation. The vents are also easily serviceable if needed, by just unscrewing the vent cap.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	66761	426-2 1/4IN HY-VENT AIR ELIMINATOR	—



## Low Water Cutoffs



The LF foam series uses DualVision™ technology to identify when its probe is in foam and the boiler water is at an unsafe level. This series cannot be fooled by conductive foam on its probe and does not require periodic shutdown of the boiler to determine actual water levels in foaming boilers.

**LFA:** Automatically reset when water levels return to safe levels.

**LFM:** Manual reset.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	64573	LFM0243S-1 24VAC MANUAL RESET 3/4IN NPT PROBE W/TEST BUTTON	—
1	EA	64409	LFA1203S-1 3/4IN NPT 120 VAC PROBE FOAM COMPENSATING LOW WATER CUT OFF	—
1	EA	62634	LFA0243S-1 3/4IN NPT 24VAC PROBE COMPENSATING LOW WATER CUT OFF	—

# Low Water Cut-Offs



No. 63



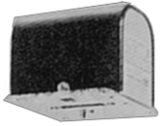
No. 67



150S



RB-24



RB-122-E



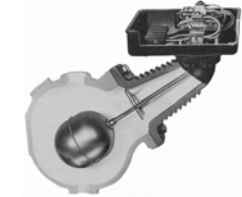
No. 14-B



No. 6667



FS4-3



SA-150

**63**

The control that pioneered the use of low water cut-offs on hot water boilers. Features heavy duty construction throughout.

**67**

The 67 cut-off will dependably interrupt the current to the burner when the water level falls into the danger zone. For use on boilers of any size, maximum steam pressure is 20 lbs.

**150S**

For commercial and industrial low or high pressure boiler applications. For boilers of any steaming capacity. Monel bellows provides corrosion resistance.

**RB-24E**

Automatic reset feature resumes operation after a power outage when water is on probe. Solid state operation. 15,000 ohms probe sensitivity.

**RB-122-E**

The RB-122-E is used for residential applications and has electronic operation. It is easy to install and wire. Features an automatic reset and there is no blow down required.

**14-B**

Blow-off valve for use with the 67 Series Cut-off.

**6667**

The 6667 is a complete replacement operating mechanism for the 67 Series. For 115V or 230V circuits.

**FS4-3**

Liquid flow switch has a universal design to serve the widest variety of applications.

**SA150-124**

A 3-wire cut-off and alarm switch for the 150 series.

**Low Water Cut-Offs**

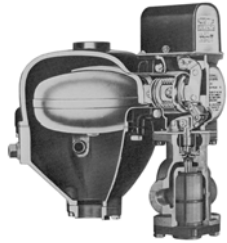
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65488	63 LOW WATER CUT-OFF FLOAT TYPE FOR LOW WATER FUEL CUTOFF	—
1	EA	65480	67 LOW WATER CUT-OFF LOW WATER CUTOFF	—
1	EA	65814	150S LOW WATER CUT-OFF FLOAT LOW WATER CUT OFF	—
1	EA	65986	80160718 750P-MT-120 LOW WATER CUT-OFF F/HOT WATER	—
1	EA	65980	80160720 PS-802-24V LOW WATER CUT-OFF F/STEAM	—
1	EA	65324	RB-24E 3/4 IN PROBE CONTROL LOW WATER CUT OFF	—
1	EA	65628	RB-122-E 3/4IN ELECTRONIC LOW WATER CUT LOW WATER CUT OFF	—

**Parts**

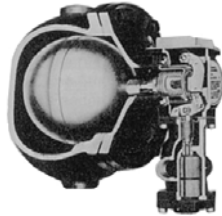
1	EA	65477	14-B BLOW OFF VALVE	—
1	EA	65815	150S-HD HEAD MECHANISM	—
1	EA	65495	6667 MECH MCD-M HEAD MECHANISM	—
1	EA	65491	FS4-3 LIQ FLOW SWITCH	—
1	EA	65493	SA150-124 MCD-M SWITCH	—



## Feeder Cut-Off



No. 47-2



No. 51-2

### 47-2

For the closed steam heating system boilers up to 5,000 sq. ft. capacity and a maximum steam pressure of 25 lbs. Has time saving quick hook-up fittings for installation in gauge glass tapplings, and self-closing blow-off valve.

AA47 Valve and Strainer Assembly is used with the 47-2 feeder cut-off.

MA259 Quick Hook-Up Fitting is used for the 47-2 feeder cut-off.

### 51-2

Larger feeding capacity than the No. 47-2, for steam boilers above 5,000 sq. ft. capacity, and for hot water boilers. Maximum boiler pressure 35 PSI.

### Feeder Cut-Offs

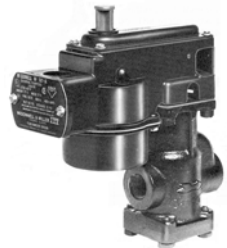
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65482	47-2 FEEDER CUTOFF	—
1	EA	65485	51-2 FEEDER-CUTOFF	—

### Parts

1	EA	65479	SA47-101-102 VALVE & STR ASSY	—
1	EA	65496	MA259 MCD-M HOOK-UP FITTING	—



## Electric Water Feeders



101A

### 101A

The same packless construction, straight thrust action, and built-in strainer perfected in other McDonnell Feeders. Closes drip tight after operating, against supply pressures up to 150 PSI.

101A-24 Feeder is for gas fired boilers with low voltage.



WF2

### WF2

For low pressure steam boilers with cold water feed. The universal design simplifies selection and reduces stock.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	65483	101A 120V FEEDER	—
1	EA	65484	101A-24V 24V FEEDER	—
1	EA	65487	WFE24 24V FEEDER W/TIME DELAY	—

# Honeywell L4006A Aquastat Controller



Immersion type controllers for limiting or regulating temperatures of liquids in boilers or tanks. Totally enclosed Microswitch snap-acting switch operates on temperature rise to set point. Includes well adapter and tube of heat-conductive compound.

- Bulb: Copper, 3/8" x 2-7/8"
- Approximate Dimensions: 5-5/8" H x 2" W x 2-1/8" D.
- U.L. Listed.
- AGA Certified.

### Electrical Ratings (Amperes) Models with 5° to 30°F Adjustable Differential\*

	120 Vac	240 Vac
Full Load	8.0	5.1
Locked Rotor	48.0	30.6
Millivoltage	.25 at 1/4 to 12 Vdc	

\*L4006A: Adjustable  
L4006E: Manual

Model No.	Application	Switch Action	Range °F	Midscale Differential °F	Includes
L4006A 1678	High or Low Limit	Contacts break on temp. rise	100 to 240	5 to 30 Adjustable	3" insulation, stop factory-set at 240° F.
L4006E 1117	High Limit			Manual Reset	

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	70565	L4006A1678/U AQUASTAT	—
12	EA	70566	L4006E1117/U AQUASTAT	—

# Honeywell L404F Pressuretrol Controllers



Provide operating control, automatic, or manual reset limit protection for pressure systems up to 300 psi (2068 kPa). May be used with steam, air, noncombustible gases, or fluids noncorrosive to pressure sensing element. Mercury switch. Siphon loop included.

Pressure Sensing Element:Stainless steel diaphragm.

**Maximum Ambient Temperature:** 150° F.

**Mounting Means:** 1/4" NPT female threads or surface mounted through back of case.

U.L. Listed.

Industrial Risk Insurers (formerly FIA) acceptable.

Dimensions			
	Height (In.)	Width (In.)	Depth (In.)
L404F 1094	5-3/4	4-1/2	2-3/4
L404F 1102	3-7/8	4-1/2	3-1/4

Electrical Ratings (Amperes)				
	120 Vac	240 Vac	120 Vdc	240 Vdc
Full Load	8.0	5.1	2.0	1.0
Locked Rotor	48.0	30.6	20.0	10.0
Resistive	10.0	5.0	8.0	4.0

Model No.	Operating Range		Subtractive Differential **		Surge Pressure		Switch Type	Action on Pressure Rise
	psi	kPa	psi	kPa	psi	kPa		
L404F 1094*	20 to 300	138 to 2068	20 to 50	138 to 345	350	2413	SPDT	R-@ Makes
L404F 1102	10 to 150	69 to 1034	10 to 22	60 to 152	225	1551	SPDT	R-B Breaks

\* Brass bellows. \*\* Differential at midscale.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	70552	L404F1102/U PRESSURETROL	—
10	EA	70555	L404F 1094 PRESSURETROL	—

# Honeywell T915 Proportional Temperature Controller



Proportional remote bulb controllers for ducts, tanks, boilers, pipes, and other heat exchangers.

- Provide proportioning control of three-wire, low-voltage valve or damper motors.
- Used to regulate temperatures of either air or liquids.
- All models ambient compensated.
- Temperature setting scale markings in both Fahrenheit and Celsius.

- Ambient temperature compensation provides good temperature control. Refer to T775 Electronic Remote Temperature Controller where more exact control is required and/or remote controller location is preferred.
- Steel case has a clear plastic cover to make setting readily visible.
- Surface mount using two screws through back of case.

Model No.	Bulb Size	Capillary Length	Maximum Operating Temperature		Setpoint Temperature Range		Volts	
			(F)	(C)	(F)	(C)	Sensor Element	Analog Output
T915C1936	1/2 in. dia., 4 in. long	20 ft.	230	110	80 to 210	27 to 99	Copper bulb, high temp. fill	One 135 OHM Potentiometer

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	73130	T915C 1936 TEMP CNTL	—

# Honeywell L6006A, C Aquastat Controllers



Immersion type controllers for limiting or regulating temperatures of liquids in boilers or tanks. Sensing element actuates enclosed microswitch snap-acting switch. Tradeline models include well adapter and tube of heat-conductive compound. Horizontal or vertical insertion of sensing element.  
 Bulb: Copper, 3/8" x 2-7/8".

**Operating Temperature Range:** 50 to 125° F.  
**Midscale Differential:** 5 to 30° F, adjustable.  
**Approximate Dimensions:** 5-5/8" H x 2" W x 2-1/8" D.  
**Switch Action:** SPDT.  
**Application:** Circulator control and high limit or low limit.  
 U.L. Component Recognized.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	70700	L6006A1145/U AQUASTAT	—
12	EA	70702	L6006C1018/U AQUASTAT	—



## Honeywell L6008A Aquastat Controllers



Hydronic controller for limiting or regulating temperatures of liquids in boilers or tanks for circulator and low limit applications. Can also sense duct or outside air temperature. Sensing element actuates enclosed Micro Switch snap-acting switch. Horizontal or vertical mounting of the remote element into boiler, tank, or other container. Case mounts to a vertical surface.

**Approximate Case Dimensions:**

5-5/8" H x 2" W x 2-1/8" D.

**Bulb:** Copper, 3/8" x 2-7/8".

**Capillary Length:**

L6008A1093, L6008A1192 66".

**Midscale Differential:** 5° to 30° F, adjustable.

**Switch Action:** SPDT.

U.L. Listed

Model No.	Temperature Range (F)	Max. Ambient Temperature at Element (F)
L6008A 1192	100 to 240	265

Electrical Ratings		
	120 Vac	240 Vac
Full Load	8.0	5.1
Locked Rotor	48.0	30.6
Millivoltage	.25 at ¼ to 12 Vdc	

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	70707	L6008A1192/U AQUASTAT	—

## Honeywell L6081A Multiple Aquastat Controller



This circulator, low limit, and high limit controller is used to regulate boiler water temperature in gas or oil fired hydronic heating systems. The immersion type liquid-filled sensing element actuates 2 snap switches.

**Bulb:** Copper, 3/8" x 2-7/8".

**Insertion Length:** 3-1/2".

**Insulation Depth:** 3".

**Maximum Ambient Temperature:** 150° F at switches, 265° F at sensing element.

**Approximate Case Dimensions:**

3-7/8" H x 4-1/8" W x 2-3/4" D.

U.L. Listed.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	70755	L6081A 1010 AQUASTAT	—

## Honeywell L8124G Triple Aquastat Relay



This immersion type hydronic control combines high limit protection with low limit and circulator control. It is used in forced hydronic heating systems that include domestic hot water service. Requires a 24V thermostat with heat anticipator setting 0.2 amp.

**Bulb:** 3/8" x 2-7/8".

**Insertion Length:** 3-3/8".

**Insulation Depth:** 1-1/2" or 3".

**Maximum Ambient Temperature:** 150° F at switches, 265° F at sensing element.

**Dimensions:**

**Horizontal Mount:**

4-3/8" H x 6-1/8" W x 3-1/8" D

**Vertical Mount:**

6-1/8" H x 4-3/8" W x 3-1/8" D.

U.L. Listed.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	70783	L8124G 1020 AQUA RELAY	—

# Honeywell L8148A,E,J, Aquastat Relays



**Vertical Mount**



**Horizontal Mount**

Immersion type hydronic controls combine high limit protection with switching relay control of burner and circulator. High limit opens burner circuit only. Includes transformer and accessory terminals for adding a remote low limit control. Requires a 24 V thermostat.

**Thermostat Anticipator Setting:** 0.2 amp.

**Fixed Differential:** 8° F nominal.

**Bulb:** Copper, 3/8" x 2-7/8".

**Max. Bulb Temperature:** 40° over selected set point up to 265.

**High Limit Scale Range:** 140 to 240° F.

**Max. Ambient Temperature:** 150° including zone valves with low voltage loads up to 1.2 A\*.

**Electrical Ratings (Amperes)  
Circulator Control Circuit**

	120 Vac	240 Vac
Full Load	7.4	3.7
Locked Rotor	44.4	22.7

**Burner Control Circuit:** Line voltage (L8148A 1017); Millivolt or low voltage (L8148J 1009\*\*).

**Insertion Length:** 3-3/8".

**Insulation Depth:** 1-1/2".

**Maximum Pressure on Immersion Well:** 255 PSI.

**Approximate Case Dimensions:**

6-1/8" H x 4-5/16" W x 3-1/8" D (vertical mount).

4-5/16" H x 6-1/8" W x 3-1/8" D (horizontal mount).

**Includes:** Well adapter and heat-conductive compound. U.L. Listed.

Model No.	Burner Circuit Type	Mounting	Temperature Ratings			Capillary Length, Approx. Dimensions (In.)	Includes
			High Limit	Bulb Maximum	Ambient Maximum		
L8148A 1017*	Line Voltage	Horizontal or Vertical	140 to 240	40 over selected set point; up to 265	150 including zone valves with low voltage loads up to 1.2Aa	1-1/2	Well adapter and heat-conductive compound.
L8148J 1009*‡	Millivolt or Low Voltage	Horizontal or Vertical	140 to 240				Well adapter and heat-conductive compound.
L8148E 1299	Low Voltage	Vertical	180 to 240	50 VA transformer, well adapter and heat conductive compound.			

\*Tradeline Models. If up to 1.4A load is used, ambient temperature must not exceed 77° F (25C).

‡Total external load powered by L8148J must not exceed 30 VA.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	70810	L8148A1017/U AQUA RELAY	—	—
10	EA	70813	L8148J1009/U AQUA RELAY	—	—
10	EA	70815	L8148E1299/U AQUA RELAY	—	—

# Honeywell R8182D, J Combination Controllers

## Protectorelay and Hydronic Heating



Immersion type aquastat controller and oil burner primary control provides high limit and low limit/circulator control for oil-fired hydronic heating systems. For intermittent ignition applications. Requires a C554A Cadmium Sulfide Flame Detector and a 24V thermostat.

Model No.	Switching	Adj. Control Range (°F)	Differential (°F)
R8182D*	High Limit, SPST	130 to 240	10 Fixed
	Low Limit/Circulator, SPDT	110 to 220	10 to 25 Adj.
R8182J* Remote Bulb	High Limit, SPST	180 to 240	15 Fixed

**Maximum Ambient Temperature:** 250° F at element.

**Thermostat Anticipator Settings:** 0.2 amp.

**Approximate Dimensions:** 7-1/8" H x 5-1/4" W x 3-7/16" D.

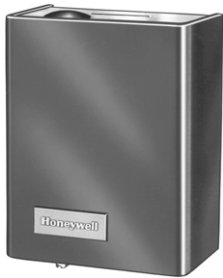
**Voltage and Frequency:** 120V, 60 Hz.

U.L. Listed.

\*Auxiliary Zc and Zr terminals may be used to provide circulator zone control through an R845A Switching Relay.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	EA	72503	R8182D 1079 PROTECTORELAY	—
5	EA	72504	R8182J 1042 PROTECTORELAY	—

# Honeywell RA89A, RA832A and R8845U Hydronic Switching Relays



Provide intermediate switching of a line voltage device from a low voltage controller. Integral transformer provides low voltage power for control circuit.

**Approximate Dimensions:** 5-1/4" H x 4-1/4" W x 2-5/16" D.

**Maximum Input:** 5.0 W.

**Maximum Connected Load:** 2000 VA

**Maximum Ambient Temperature:**

115° F for 60 Hz.; 105° F for 50 Hz.

U.L. Listed.

Model No.	Application	Voltage (50/60 Hz.)	Switch Action	Control Circuit	Coil Voltage	Relay Coil Current (A)
RA89A 1074	For switching one line voltage load.	120	SPST	2-wire	24	0.40
RA832A 1066	For switching two line voltage loads having a common power source.	120	DPST: one pole line voltage, the other low voltage or millivoltage.	2-wire	24	0.40
R8845U 1003	For switching line and low voltage devices from a line or low voltage controller	120	SPST	2 or 3-wire	24	0.40

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	72527	RA89A1074/U RELAY	—	—
10	EA	72583	RA832A1066/U RELAY	—	—
10	EA	72529	R8845U1003/U UNIVERSAL SWITCHING RELAY	—	—

# Honeywell V8043A, E, and F Zone Valves



On-Off and diverting valves consist of an actuator motor and valve assembly for controlling the flow of hot or cold water, and some models for steam. Manual opener (on all except straight-through, normally open valves) for valve operation on power failure. Valve returns to automatic position when power is restored. Motor actuator may be replaced without removing the valve body or draining the system.

**Maximum Fluid Temp.:** 240° F.  
**Minimum Fluid Temp.:** 40° F.  
**Maximum Ambient Temp.:** 125° F.  
**Valve Body Pattern:** Straight-through.  
**De-energized Position:** Normally closed.  
**Control Circuit:** 24 V, 50/60 Hz.  
 V8034A is U.L. Listed.  
 V8043F is U.L. Component Recognized.

Pipe Connection	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1/2 Sweat	10	EA	73852	V8043F1028/U VALVE	—
3/4 Sweat	10	EA	73856	V8043A1029/U VALVE	—
3/4 Sweat	10	EA	73850	V8043E1012/U VALVE	—
3/4 Sweat	10	EA	73857	V8043F1036/U VALVE	—
1 Sweat	10	EA	73858	V8043F1051/U VALVE	—

NOTE: All items except V8043A 1029 include end switch for sequencing auxiliary equipment. Items V8043F 1036 and V8043F 1051 include terminal board connector.

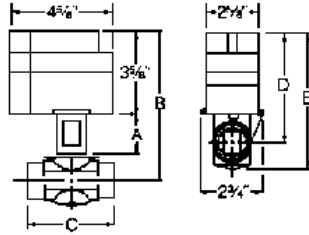
## Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	74656	802360JA/U MOTOR	—

**White**  
**Rodgers** **Hydronic Zone Controls**



1311-102



Dimensions

**Zone Valve Dimensions**

Valve Size	Dimensions (Inches)				
	A	B	C	D	E
3/4"	1-3/4	6-1/2	2-7/8	4-11/16	5-5/8
1"	1-15/16	6-3/4	3-1/8	4-13/16	5-7/8

2-wire or 3-wire valves for zoning hydronic systems up to 50 PSI. Features quiet operation, valve stem made of stainless steel, and screw terminal wiring panel. Motor and gear train completely immersed in oil and sealed in metal case. Self-aligning barrel-type valve stem uses line pressure to seal off without binding on opening and closing. Automatic recycling manual operator shows valve position at all times.

Built-in auxilliary contacts to control burner or circulator relay. Motor can be removed from valve assembly without draining system.

**Electrical Rating of Auxiliary Switch:** 2.0A at 24 Vac

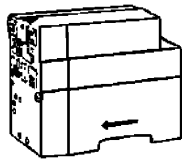
**CAUTION:** Do not attempt to change valve assembly without draining boiler or while boiler water is hot. Failure to relieve water pressure or to wait until water cools could result in scalding injuries.

Model No.	Tubing Size (I.D.)	24 Vac Thermostat Circuit Rating	Time Cycle	Maximum Differential Across Valve (PSI)	Max. Water Temp. (°F)	Max. System Pressure (PSI)	Friction Loss Equivalents	
							Cv Factor	Ft. of Tubing
<b>3-Wire, 24V Valve with Screw Terminal Wiring Panel and Auxiliary Switch</b>								
1311-102	3/4"	0.4A*	Open 45 sec.	15	240	50	23.5	2-1/2
1311-103	1"	0.4A	Close 45 sec.	15	240	50	37.0	4
<b>2-Wire, 24V Valves with Screw Terminal Wiring Panel and Auxiliary Switch</b>								
1361-102	3/4"	0.2A**	Open 45 sec.	15	240	50	23.5	2-1/2
1361-103	1"	0.2A**	Close 60 sec.	15	240	50	37.0	3-1/2
1361-104	1-1/4"	0.2A**		15	240	50	42.2	6-1/2

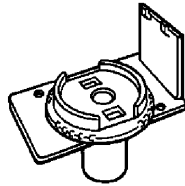
\* Valve current is 0.4A only during opening or closing. For proper anticipation select thermostat designed for use with a 3-wire zone valve. \*\* Valve current is 0.52A when opening but 0.2A when fully open; therefore set anticipator for 0.2A.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75489	1311-103 1IN ZONE VALVE	—
1	EA	75571	1311-102 3/4IN ZONE VALVE	—
1	EA	75490	1361-102 3/4IN ZONE VALVE	—
1	EA	75491	1361-103 1IN ZONE VALVE	—
1	EA	75763	1361-104 1-1/4IN ZONE VALVE	—

**White** **F19 Motor and F84 Valve Assemblies**  
**Rodgers**



F19



F84

Motor and valve assemblies must be replaced as a single unit.

**F19 Motor Assemblies**

For Use With Valves	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1311-102, -103, -104, -132, -133 and 1315-103, -104	1	EA	75579	F19-0097 W/R ZONE VALVE MOTOR ASSY	—
1361-102, -103, -104, -132, -133 and 1311-102, -103, -104	1	EA	75580	F19-0104 W/R ZONE VALVE MOTOR ASSY	—

**F84 Valve Stem Assemblies**

1311-102, 1361-102 (3/4~B2)	1	EA	75583	F84-0433 3/4IN W/R VALVE ASSY	—
1311-103, 1361-103 (1~B2)	1	EA	75584	F84-0434 1IN W/R VALVE ASSY	—

**White** **Aquastats**  
**Rodgers**



Surface mount type aquastat attaches directly to (strap on) the surface of pipe. For use as high limit, reverse acting, or SPDT switching action control. Mounts in any position. Includes pipe strap and mounting screws.

Model No.	Type	Range F	Diff. F	Switch Action	Full Elec. Rating	Motor Rating (Full Load)		Valves & Relays 24 Vac
						120 Vac	240 Vac	
1127-2	Surface Mount	100 to 240	Fixed, 10	Spdt	HH	7.4A	3.7A	2.9A

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75531	1127-2 AQUASTAT	—



## Valves and Parts



SZ Series Sparcozone is a multiple zone valve that is pre-assembled and pre-wired.

- Three or four zone multiple zone valves
- Built-in balancing plugs for flow adjustment for each zone
- Priority relay for indirect water heater.



AM Series Aquamix accurately adjusts, maintains, and limits the hot water temperature to a desired setting selected by the user. AM-R for heating only.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	68513	S2Z3S3 3 ZONE SPARCO ZONE VALVE	—
1	EA	68515	SH4S 4 ZONE SUPPLY HEADER	—
1	EA	68516	AM101R-US-1/U 3/4" SWEAT AQUAMIX VALVE	—
1	EA	68517	AM102R-US-1/U 1" SWEAT AQUAMIX VALVE	—



### Boiler/DHW Controls

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	76162	TYPE 256 ONE STAGE BOILER CTL W/ OUTDOOR RESET	—
1	EA	76161	TYPE 260 ONE STAGE BOILER & DWH CONTROL	—
1	EA	76165	TYPE 262 TWO STAGE BOILER & DHW CTL	—
1	EA	76166	TYPE 274 (264) FOUR STAGE BOILER CTL	—

### Heating Controls

1	EA	76168	TYPE 367 ZONE CTL	—
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### Snow Melting Controls

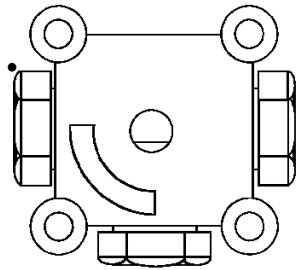
1	EA	76171	TYPE 650 SNOW MELTING CTL	—
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### Miscellaneous Controls

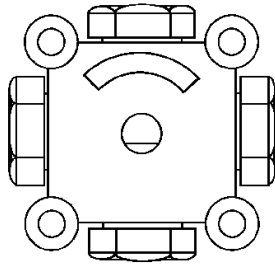
1	EA	76174	TYPE 071 UNIVERSAL SENSOR	—
1	EA	76175	TYPE 076 INDOOR SENSOR	—



## ESBE Valves and Controls



3-way Valve



4-way Valve

### 3-way and 4-way Valves, Type MG

The ESBE MG valves can be used for mixing and diverting applications and are suitable for automatic control using an On-Off or modulating actuator.

**Maximum Static Pressure:** 250 PSI (10 bars).

**Maximum Temperature:** 230° F.

**Maximum Diff. Pressure Drop:** 25 PSI (2 bars).

**Torque Maximum:** 10 in./lbs.

### Three-way Threaded Mixing or Diverting Valves

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	68380	3MG20-6.3 3/4"NPT 7.3CV 3-WAY VALVE	—
1	EA	68381	3MG25-12 1"NPT 14CV 3-WAY VALVE	—
1	EA	68382	3MG32-18 1 1/4"NPT 21CV 3-WAY VALVE	—
1	EA	68383	3G40 1 1/2"NPT 35CV 3-WAY VALVE	—

### Four-way Threaded Mixing or Diverting Valves

1	EA	68394	4MG20S 3/4" SWEAT 4-WAY VALVE	—
1	EA	68395	4MG25S 1" SWEAT 4-WAY VALVE	—
1	EA	68396	4MG32S 1 1/4" SWEAT 4-WAY VALVE	—

### Four-way Sweat Mixing or Diverting Valves

1	EA	68386	4MG20-6.3 3/4"NPT 7.3CV 4-WAY VALVE	—
1	EA	68387	4MG25-12 1"NPT 14CV 4-WAY VALVE	—
1	EA	68388	4MG32-18 1 1/4"NPT 21CV 4-WAY VALVE	—
1	EA	68389	4G40 1 1/2"NPT 35CV 4-WAY VALVE	—

### Controls and Accessories

1	EA	68391	VM62EM 24V 45 IN.LB FLOATING ACTUATOR W/AUX SWITCH	—
1	EA	68392	TC62D RESET CONTROLLER	—

### VM62M 24V Actuator with Auxiliary Switch

The ESBE Series 60 compact control motor is designed for operating ESBE rotary mixing valves up to 1-1/2". Reversible motor with fixed limit switches for 90° operating range. 24 Vac 50/60 Hz. and 60" connection cable attached.

**Ambient Temperature Range:** 22 to 130° F.

### TC62D Reset Controller

This compact outdoor reset controller is built into a VM62 valve actuator. To be used with ESBE 3-way and 4-way valves from 1/2" through 1-1/2".

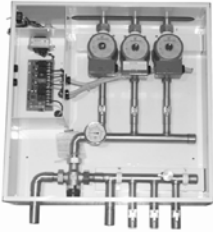
Built-in maximum supply water temperature limit. Supply water and outdoor temperature sensors are included. Optional room temperature input and night setback features available.





## Hydronic Control Panels

For Use with Open Potable or Closed Hydronic Systems



These hydronic control panels were developed to help you save time, reduce field costs, and simplify installation. With various styles to choose from, we have a fit for all your heating requirements.

### Features

- Factory prewired printed circuit boards for simple field wiring.
- Dynamic pump duty cycle timer prevents water stagnation and prolongs circulator life.
- Auxiliary and main pump relays.
- On/Off switch and indicator light.
- Circuit board can be used with potable water or boiler systems.
- Priority zone function on all panel circuit boards.
- Prepiped, prewired panels guarantees systems performance.
- Combinations of high and low temperature zones in one panel.
- Reliable off the shelf components.
- All units are CSA NRTL/C approved.

### Standard Equipment Includes

- Powder coated cabinet (appliance finish).
- Tempering valve.
- Zone circulator.
- Thermometer.
- Indicator lights (zone operation).
- Boiler contacts (dry).
- Zone pump controller.
- Optional zone valve terminals.
- Auxiliary 24 volt terminals.
- 40VA 110/24 volt AC transformer.
- Low voltage fuse protection.
- Timer circuit board with 5 min./24 hour domestic water protection option.

### HP100002

- Additional zone circulator
- Check valves (not installed)
- Priority zone function (optional zone 1)

### HP100003, HP100004, HP100312, HP100413

- On-Off switch
- Pilot light (power on/off)
- Additional zone circulators
- Check valve (installed)
- Priority zone function (optional zone 1)
- Zone isolation valves
- Mounting hardware

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75706	HP100002 TWO PUMP LOW TEMP HYDRONIC CONTROL PANEL	—
1	EA	75707	HP100003 THREE PUMP LOW TEMP HYDRONIC CONTROL PANEL	—
1	EA	75708	HP100004 FOUR PUMP LOW TEMP HYDRONIC CONTROL PANEL	—
1	EA	75709	HP100312 1HI-2LO TEMP COMBO HYDRONIC CONTROL PANEL	—
1	EA	75710	HP100413 1HI-3LO TEMP COMBO HYDRONIC CONTROL PANEL	—

**state** Point-of-Use Electric Water Heater  
WATER HEATERS



The point-of-use electric water heaters are designed for low-demand point-of-use applications, such as office lavatories or any building with remote restrooms. It has a 2-1/2 gallon tank capacity, with a single heating element. Includes 110/120V cord set with 3-prong plug and integrated wall-mounting brackets for easy installation.

- All Select Specialty Electric Heaters have certified and rated T&P relief valves and foam insulation to protect against radiant heat loss.
- 6-year limited tank and parts warranty.

Model Number	Gallon Capacity	Element Wattage	Recovery 90° Rise	Dimensions H x W x D (In.)	Shipping Weight (Lbs.)
ES6 2 SSUS	2.5	1500 @ 120V	7	13-3/4 x 11 x 13-3/4	18

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2-5	PC-3 6
1	EA	62874	ES6-2-SSUSK 2.5 GALLON STATE ELECT HTR 120V 1500W	—	—	—

**state** On-Demand Gas Water Heaters  
WATER HEATERS



110/310/510



320/520

- Stainless steel venting can be used for the GTS110, 310, and 510
- Standard PVC venting can be used for GTS320 and 520 (adaptor included in the box)
- Up to 16 different temperature settings without a remote
- Built-in temperature and error code display
- AFR (Air-Fuel Ratio) sensor
- Robust temperature safety controls to prevent PVC meltdowns
- 3-digit display window that shows temperature and error codes for easy troubleshooting
- Outdoor specific model available
- CSA certified software
- ENERGY STAR® qualified

Model No.	Gas Consumption Unit		Inlet Gas Pressure		Energy Factor	Max GPM	Hot/Cold and Gas Conn.	Dimensions (In.)			Approx. Ship Weight (Lbs.)
	Min. Btu/h	Max. Btu/h	Min. W.C.	Max. W.C.				Height	Width	Depth	
GTS-110-NI	19,500	140,000	5.0	10.5	0.82	6.6	3/4" NPT	20.5	13.8	6.7	38
GTS-310-NI	11,000	190,000	5.0	10.5	0.82	8.0	3/4" NPT	20.5	13.8	8.5	43
GTS-320-NIH	13,000	180,000	5.0	10.5	0.91	8.0	3/4" NPT	25.6	18.5	12.4	73
GTS-510-NI	11,000	199,000	5.0	10.5	0.82	10.0	3/4" NPT	20.5	13.8	8.5	45
GTS-510-PI	11,000	199,000	8.0	14.0	0.82	10.0	3/4" NPT	20.5	13.8	8.5	45
GTS-520-NIH	13,000	199,000	5.0	10.5	0.91	9.0	3/4" NPT	25.6	18.5	12.4	73

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2-5	PC-3 6
1	EA	86804	GTS-110-NI 19,500-140,000 BTU NAT TANKLESS HEATER INDOOR	—	—	—
1	EA	86805	GTS-310-NI 11,000-190,000 BTU NAT TANKLESS HEATER INDOOR	—	—	—
1	EA	86806	GTS-320-NIH 13,000-180,000 BTU NAT TANKLESS HEATER INDOOR	—	—	—
1	EA	86807	GTS-510-NI 11,000-199,000 BTU NAT TANKLESS HEATER INDOOR	—	—	—
1	EA	86808	GTS-510-PI 11,000-199,000 BTU LP TANKLESS HEATER INDOOR	—	—	—
1	EA	86809	GTS-520-NIH 13,000-199,000 BTU NAT TANKLESS HEATER INDOOR	—	—	—



## Accessories for Tankless Water Heaters

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	83401	CDT-V CONCENTRIC VERTICAL DRAIN TEE	—
1	EA	83425	CRFA-40 CONCENTRIC ROOF FLASHING ADJ	—
1	EA	83415	CVK-H CONCENTRIC VENT KIT-STANDARD	—
1	EA	83427	CVK-V-CA CONC. VENT KIT VERT-ANGLED	—
1	EA	83428	CVK-V-CF CONC. VENT KIT VERT-FLAT ROOF	—
6	EA	83420	CVP-11ADJ CONCENTRIC ADJ VENT PIPE 11"	—
6	EA	83402	CVP-12STR CONCENTRIC VENT PIPE 12"	—
6	EA	83421	CVP-16ADJ CONCENTRIC ADJ VENT PIPE 16"	—
6	EA	83418	CVP-24STR CONCENTRIC VENT PIPE 24"	—
6	EA	83419	CVP-36STR CONCENTRIC VENT PIPE 36"	—
6	EA	83422	CVP-40ADJ CONCENTRIC ADJ VENT PIPE 40"	—
6	EA	83423	CVP-45ELB CONCENTRIC 45 DEGREE ELBOW	—
6	EA	83404	CVP-90ADJELB CONC. 90 DEGREE ADJ ELBOW	—
6	EA	83424	CVP-90ELB CONCENTRIC 90 DEGREE ELBOW	—
6	EA	83430	CVT-S CONCENTRIC STRAIGHT BIRDSCREEN	—
6	EA	83405	CVT-S2 CONC. STR BIRDSCRN-THICK WALL	—
1	EA	83403	FP-5-OUT CONCENTRIC VENT OUTER PLATE	—
1	EA	83432	VK3-H-PVC 3" PVC CONCENTRIC TERMINATION	—
6	EA	83434	VP4-ADAPT-PVC ADAPTER FOR 4" PVC	—
6	EA	83412	VP4X3-ADAPT-PVC ADAPTER FOR 3" PVC PIPE	—
6	EA	83433	VT3-PVCS 3" BIRDSCREEN TERMINATION	—

## Honeywell Water Filters for Noritz Tankless Water Heaters

- Sediment removing
- Reverse rinsing
- Rinsable

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	74230	F76S 1015 WATER FILTER 3/4 INCH SWEAT & THREADED MNPT	—
1	EA	74231	F76S 1023 WATER FILTER 1 INCH SWEAT & THREADED MNPT	—
1	EA	74232	F76S 1031 WATER FILTER 1 1/4 INCH SWEAT & THREADED MNPT	—
1	EA	74233	MV876B 1018 MOTORIZED BACKWASH FOR ALL F76S	—



# PCE Series Light Duty Commercial Electric Water Heaters



The PCE Patriot Light-Duty Water Heaters are designed for use as recovery heaters for light-duty hot water supply service. They can be installed for non-simultaneous and single element operation (maximum input up to 6 KW), or for simultaneous dual-element operation (maximum input up to 12 KW).

- 120V, 277V single-phase, and 208V, 240V and 480V unbalanced 3-phase delta.
- Easily converted to single-phase at terminal block (except for 208V with 6000 watt elements).
- Single-element heater, single-phase only.
- Factory-installed terminal block provides electrical service to heater and connects to block.

- Temperature control (adjustable from 110 to 170° F on single-element; 120 to 180° F on dual-element models).
- Manual reset high temperature cutoff per element (dual-element models).
- Glass-lined tank with anode rod provides long-lasting protection against corrosion.
- Simplified, color-coded circuitry for ease of service.
- Bonderized undercoat on cabinet with baked enamel finish.
- Top inlet and outlet openings.
- Foam insulation.
- Drain valve.
- UL-approved field conversion program.
- Three-year limited tank warranty.

### PCE Single Element Possible Combinations

Gallons	KW	Water Heater + Conversion Kit (By Bercor No.)		
		120V	208V	277V
6	1.5	88212+88245	*	*
6	2.5	88212	88212+88243	88212+88246
6	3	*	88212+88238	*
10	1.5	88213+88245	*	*
10	2.5	88213	88213+88243	88213+88246
10	3	*	88213+88238	*
10	4.5	*	88213+88247	*
10	6	*	88213+88241	*
17	1.5	88214+88245	*	*
17	2.5	88214	88214+88243	88214+88246
17	3	*	88214+88238	*
17	4.5	*	88214+88247	*
17	6	*	88214+88241	*
20	1.5	88215+88245	*	*
20	2.5	88215	88215+88243	88215+88246
20	3	*	88215+88238	*
20	4.5	*	88215+88247	*
20	6	*	88215+88241	*

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**PCE Double Element Possible Combinations**

Gallons	KW	Water Heater + Conversion Kit (By Bercor No.)		
		120V	208V	277V
	208V	480V		277V is Special Order Only
30	3	88216	*	
30	4.5	88216+88239	*	
30	5	88216+88242	*	
30	6	88216	88216+88244	
30	9	88216+88239	*	
30	12	N/A	88216+88244	
40 Tall	3	88209	*	
40 Tall	4.5	88209+88239	*	
40 Tall	5	88209+88242	*	
40 Tall	6	88209	88209+88244	
40 Tall	9	88209+88239	*	
40 Tall	12	N/A	88209+88244	
40 Short	3	88217	*	
40 Short	4.5	88217+88239	*	
40 Short	5	88217+88242	*	
40 Short	6	88217	88217+88244	
40 Short	9	88217+88239	*	
40 Short	12	N/A	88217+88244	
52	3	88210	*	
52	4.5	88210+88239	*	
52	5	88210+88242	*	
52	6	88210	88210+88244	
52	9	88210+88239	*	
52	12	N/A	88210+88244	
82	3	88211+88240	*	
82	4.5	88211+88239	*	
82	5	88211+88242	*	
82	6	88211	88211+88244	
82	9	88211+88239	*	
82	12	N/A	88211+88244	

\*Available by Special Order

**Water Heaters**

Diameter (In.)	Height (In.)	Shipping Wt. (Lbs.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
14-1/4	15-1/2	35	1	EA	88212	PCE6-1-OMS 6 GALLON 2.5 KW STATE PATRIOT COMM ELC HTR	—
18	18-1/4	54	1	EA	88213	PCE10-1-OMS 10 GALLON 2.5 KW STATE PATRIOT COMM ELC HTR	—
18	26	58	1	EA	88214	PCE17-1-OMS 17 GALLON 2.5 KW STATE PATRIOT COMM ELC HTR	—
21-3/4	22-1/4	73	1	EA	88215	PCE20-1-OMS 20 GALLON 2.5 KW STATE PATRIOT COMM ELC HTR	—
21-3/4	30-7/8	100	1	EA	88216	PCE30-2-OLS 30 GALLON 3/3 KW STATE PATRIOT COMM ELC HTR	—
24	32-1/4	125	1	EA	88217	PCE40-2-OLS 40 GALLON 3/3 KW STATE PATRIOT COMM ELC HTR	—
20-1/2	45-1/8	113	1	EA	88209	PCE40-2-ORT 40 GALLON 3/3 KW STATE PATRIOT COMM ELC HTR	—
20-1/2	54-7/8	131	1	EA	88210	PCE52-2-ORT 52 GALLON 3/3 KW STATE PATRIOT COMM ELC HTR	—
24	59-3/8	211	1	EA	88211	PCE82-2-ORTA 82 GALLON 6/6 KW STATE PATRIOT COMM ELC HTR	—

**Conversion Kits**

10	EA	88245	9003754005	120V 1.5KW 1 ELEMENT CONV KIT FOR PCE COMM ELEC HTR	—
10	EA	88246	9003760005	277V 2.5KW 1 ELEMENT CONV KIT FOR PCE COMM ELEC HTR	—
10	EA	88243	9003767005	208V 2.5KW 1 ELEMENT CONV KIT FOR PCE COMM ELEC HTR	—
10	EA	88238	9003768005	208V 3 KW 1 ELEMENT CONV KIT FOR PCE COMM ELEC HTR	—
10	EA	88247	9003771005	208V 4.5KW 1 ELEMENT CONV KIT FOR PCE COMM ELEC HTR	—
10	EA	88241	9003773005	208V 6KW 1 ELEMENT CONV KIT FOR PCE COMM ELEC HTR	—
10	EA	88242	9003793005	208V 5KW 2 ELEMENT CONV KIT FOR PCE COMM ELEC HTR	—
10	EA	88240	9003794005	208V 3KW 2 ELEMENT CONV KIT FOR PCE COMM ELEC HTR	—
10	EA	88239	9003797005	208V 4.5KW 2 ELEMENT CONV KIT FOR PCE COMM ELEC HTR	—
1	EA	88244	9003809005	480V 6KW 2 ELEMENT CONV KIT FOR PCE COMM ELEC HTR	—



# CSB Series Sandblaster Commercial Electric Water Heaters



CSB models ship with the gold plated elements which provide long life and superior scaling resistance. Low watt density means lower surface temperature to minimize scale buildup and more surface to heat water. Gold elements carry a one-year warranty against failure due to lime scale build-up.

- Tank interior is coated with glass specially 150 developed for water heater use. Tanks rated at psi working pressure.
- Fusing protects all elements, thermostats, and internal wiring circuits against excess current flow.
- Convertible from three-phase to single-phase.
- Terminal block is factory installed.

- One temperature control (adjustable through a range of 120 to 180° F) and manual reset high temperature cut-off per element.
- Surface mounted thermostats.
- Simplified circuitry, color coded for ease of service.
- Two anode rods for maximum corrosion protection.
- Cabinet has bonderized undercoat with baked enamel finish.
- Bottom inlet and top outlet openings.
- Brass drain valve.
- CSA/ASME temperature and pressure relief valve.
- Single panel control box.
- Three-year limited tank warranty.

## CSB Possible Combinations

Gallons	KW	Water Heater + Conversion Kit (By Bercor No.)		
		208V	240V	480V
50	6	88200	*	*
50	9	88200+88218	88200+88237	88200+88224
50	12	88200+88220	*	88200+88235
50	15	88200+88222	88200+88233	88200+88231
50	18	88201	88200+88227	88200+88219 or 88201+88226
50	24	88201+88223	88201+88232	88201+88236
50	27	88201+88230	*	*
50	30	88201+88228	*	*
50	36	88202	*	88201+88225
80	6	88203	*	*
80	9	88203+88218	88203+88237	88203+88224
80	12	88203+88220	*	88203+88235
80	15	88203+88222	88203+88233	88203+88231
80	18	88204	88203+88227	88203+88219 or 88204+88226
80	24	88204+88223	88204+88232	88204+88236
80	27	88204+88230	*	*
80	30	88204+88228	*	*
80	36	88205	*	88204+88225
80	45	88205+88229	*	*
80	54	*	*	88205+88234
119	6	88206	*	*
119	9	88206+88218	88206+88237	88206+88224
119	12	88206+88220	*	88206+88235
119	15	88206+88222	88206+88233	88206+88231
119	18	88207	88206+88227	88206+88219 or 88207+88226
119	24	88207+88223	88207+88232	88207+88236
119	27	88207+88230	*	*
119	30	88207+88228	*	*
119	36	88208	*	88207+88225
119	45	88208+88229	*	*
119	54	*	*	88208+88234

\*Available by Special Order

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**Water Heaters**

Diameter (In.)	Height (In.)	Shipping Wt. (Lbs.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
21-3/4	55-3/4	265	1	EA	88200	CSB52-6-SFE 52 GALLON 6 KW STATE COMM ELEC HTR	—
21-3/4	55-3/4	265	1	EA	88201	CSB52-18-SFE 52 GALLON 18 KW STATE COMM ELEC HTR	—
21-3/4	55-3/4	265	1	EA	88202	CSB52-36-SFE 52 GALLON 36 KW STATE COMM ELEC HTR	—
25-1/2	60-1/4	280	1	EA	88203	CSB82-6-SFE 82 GALLON 6 KW STATE COMM ELEC HTR	—
25-1/2	60-1/4	280	1	EA	88204	CSB82-18-SFE 82 GALLON 18 KW STATE COMM ELEC HTR	—
25-1/2	60-1/4	280	1	EA	88205	CSB82-36-SFE 82 GALLON 36 KW STATE COMM ELEC HTR	—
29-1/2	62-1/4	390	1	EA	88206	CSB120-6-SFE 120 GALLON 6 KW STATE COMM ELEC HTR	—
29-1/2	62-1/4	390	1	EA	88207	CSB120-18-SFE 120 GALLON 18 KW STATE COMM ELEC HTR	—
29-1/2	62-1/4	390	1	EA	88208	CSB120-36-SFE 120 GALLON 36 KW STATE COMM ELEC HTR	—

**Accessories**

10	EA	88222	9003334005	208V 15KW 3 ELEMENT CONV KIT FOR CSB COMM ELEC HTR	—
10	EA	88218	9003336005	208V 9KW 3 ELEMENT CONV KIT FOR CSB COMM ELEC HTR	—
10	EA	88220	9003337005	208V 12KW 3 ELEMENT CONV KIT FOR CSB COMM ELEC HTR	—
10	EA	88230	9003338005	208V 27KW 6 ELEMENT CONV KIT FOR CSB COMM ELEC HTR	—
10	EA	88228	9003339005	208V 30KW 6 ELEMENT CONV KIT FOR CSB COMM ELEC HTR	—
10	EA	88221	9003340005	208V 18KW 6 ELEMENT CONV KIT FOR CSB COMM ELEC HTR	—
10	EA	88223	9003341005	208V 24KW 6 ELEMENT CONV KIT FOR CSB COMM ELEC HTR	—
1	EA	88229	9003343005	208V 45KW 9 ELEMENT CONV KIT FOR CSB COMM ELEC HTR	—
10	EA	88233	9003346005	240V 15KW 3 ELEMENT CONV KIT FOR CSB COMM ELEC HTR	—
10	EA	88227	9003347005	240V 18KW 3 ELEMENT CONV KIT FOR CSB COMM ELEC HTR	—
10	EA	88237	9003349005	240V 9KW 3 ELEMENTT CONV KIT FOR CSB COMM ELEC HTR	—
10	EA	88232	9003355005	240V 24KW 6 ELEMENT CONV KIT FOR CSB COMM ELEC HTR	—
10	EA	88231	9003361005	480V 15KW 3 ELEMENT CONV KIT FOR CSB COMM ELEC HTR	—
10	EA	88219	9003362005	480V 18KW 3 ELEMENT CONV KIT FOR CSB COMM ELEC HTR	—
10	EA	88224	9003364005	480V 9KW 3 ELEMENT CONV KIT FOR CSB COMM ELEC HTR	—
10	EA	88235	9003365005	480V 12KW 3 ELEMENT CONV KIT FOR CSB COMM ELEC HTR	—
10	EA	88225	9003368005	480V 36KW 6 ELEMENT CONV KIT FOR CSB COMM ELEC HTR	—
10	EA	88226	9003369005	480V 18KW 6 ELEMENT CONV KIT FOR CSB COMM ELEC HTR	—
10	EA	88236	9003370005	480V 24KW 6 ELEMENT CONV KIT FOR CSB COMM ELEC HTR	—
10	EA	88234	9003373005	480V 54KW 9 ELEMENT CONV KIT FOR CSB COMM ELEC HTR	—



# SBS/SBD Series Sandblaster Commercial Water Heaters



- Self-cleaning feature reduces harmful sediment buildup inside tank; SBD Series features new Hydro Cannon™ design.
- Energy-saving automatic flue damper on SBD Series with 360° rotation service switch.
- Front, top or rear water connection options, self-cleaning Hydro Cannon functions only when front cold water connection is used.
- The GPG heaters require a NO charge factory startup.
- Can be installed as single unit or in manifolded multiples, with or without storage tanks.
- Thermostat dual controller reduces thermal stacking inside tank.
- On/off power switch.
- Intermittent electronic ignition eliminates pilot.
- ASME tank construction available on 251,000 through 500,000 BTU models.
- Multiple anode rods with stainless steel cores for longer life.
- Tank inspection port/cleanout.
- Meets NSF requirements when equipped with optional leg kit.
- 80% thermal efficiency meets ASHRA/IESNA 90.1-1999.
- Three year limited tank warranty.
- One year Parts Warranty.

Model No.	Gal. Cap.	BTU Input/ Hour	Output (Gallons)		Dimensions (Inches)		Draft Hood Outlet	Gas Connection (Inches)	Approx. Ship. Wt.
			First Hr. Rating	100° Recovery	Height with Drafthood	Diameter (Inches)			
SBS65-65NE	65	65,000	106	60	63-1/4	22	4	1/2	215
SBS75-76NE	74	76,000	125	73	61-1/8	25-3/8	4	1/2	275

Model No.	Gal. Cap.	BTU Input/ Hour	Output (Gallons) First Hr. Rating	Recovery			Dimensions (Inches)		Draft Hood Outlet	Gas Connection (Inches)	Approx Ship. Wt.
				80°	100°	140°	Height with Drafthood	Diameter (Inches)			
SBD71-120NE	71	120,000	166	145	116	83	69-3/4	27-3/4	5	1/2	400
SBD81-180NE	81	180,000	231	217	174	124	67-1/2	27-3/4	6	1/2	470
SBD81-199 NE	81	199,000	241	230	184	132	67-1/2	27-3/4	6	1/2	470
SBD100-199NES	100	199,000	263	241	193	132	72	30-1/4	6	1/2	630
SBD100-199NET	100	199,000	263	241	193	132	75	27-3/4	6	1/2	603
SBD65-251NEA	65	251,000	289	304	243	174	75	27-3/4	8	1/2	862
SBD100-275NEA	100	275,000	337	333	267	190	72	30-1/4	8	1/2	725
SBD65-305NEA	65	305,000	342	370	296	211	75	27-3/4	8	1/2	862
SBD85-365NEA	85	365,000	414	442	354	253	79-1/2	27-3/4	8	3/4	833
SBD100-390NEA	100	390,000	458	485	388	277	75-1/2	30-1/4	8	3/4	874
SBD85-500NEA	85	500,000	545	606	485	346	82-1/4	27-3/4	8	1	857
GPG85-740NEA	85	740,000	778	897	718	512	93	29-1/2	9	1	950

### SBS Series Light Duty

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62848	SBS65-65NE STATE COMM NAT HTR	—
1	EA	62849	SBS75-76NE STATE COMM NAT HTR	—

### SBD Series with Automatic Flue Damper

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62803	SBD71-120NE STATE COMM NAT HTR	—
1	EA	62772	SBD81-199NE STATE COMM NAT HTR	—
1	EA	62842	SBD100-199NES STATE COMM NAT HTR	—
1	EA	62800	SBD100-199NET STATE COMM NAT HTR	—
1	EA	62801	SBD65-251NEA ASME STATE COMM NAT HTR	—
1	EA	62802	SBD100-275NEA ASME STATE COMM NAT HTR	—
1	EA	62845	SBD65-305NEA ASME STATE COMM NAT HTR	—
1	EA	62846	SBD85-365NEA ASME STATE COMM NAT HTR	—
1	EA	62850	SBD100-390NEA ASME STATE COMM NAT HTR	—
1	EA	62804	SBD85-500NEA ASME STATE COMM NAT HTR	—
1	EA	62823	GPG85-740NEA ASME COM NAT HTR 2 CTNS W/DAMPER 170777	—



**state** WATER HEATERS **Power Direct Vent Water Heater**

- Two pipe system for separate intake make-up air and exhaust venting.
- Eliminates negative air pressure.
- Permits vent runs up to 135 equivalent feet of pipe with one elbow.
- Self-cleaning.
- 3-year warranty.
- Maximum Feet of Vent Pipe with One 90° Elbow: SDV 75-70NE: 3" to 50 Ft.



Tank Cap. Gallons	BTU/Hr. Natural	100° Rise Recovery GPH	Height (In.)	Dia. (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
75	70,000	64	69-5/8	26	1	EA	62691	SDV75-70NE STATE COMM NAT DIRECT VENT HTR	—

**state** WATER HEATERS **High Efficiency Power Direct Vent Water Heater**  
**Fully Condensing**



- 94% thermal efficiency, our most efficient gas water heater delivers higher output with lower input than larger conventional units.
- Venting options(1) Conventional power-venting horizontal or vertical.(2) Sealed power direct vent, horizontal or vertical, draws all combustion air from outside.
- Zero clearance to combustibles on all sides, combustible floor approval.
- Combustion air blower, all controls and gas valves located on top of unit for protection against high water.
- Diagnostic control panel, with status and fault indicating lights, digital temperature and numeric code display.
- Installs with Schedule 40 PVC pipe, depending on model and length of vent runs.
- Maximum hydrostatic working pressure 160 psi.

Model	Gallon Capacity	BTU/Hr. Natural	Recovery			Height (In.)	Diameter (In.)	Vent (In.)	Gas Connection (In.)	Ship Weight (Lbs.)
			80	100	140					
SUF100-199NE	100	199,000	288	230	164	75-1/2	27-3/4	3 or 4	1/2	555
SUF100-250NEA	100	250,000	360	276	206	75-1/2	27-3/4	3 or 4	1/2	595
SUF130-400NEA	130	400,000	582	465	332	75-1/2	33-1/8	4	1-1/4	855

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62686	SUF100-250NEA ASME STATE COMM NAT DIRECT VENT HTR	—
1	EA	62692	SUF130-400NEA ASME STATE COMM NAT DIRECT VENT HTR	—
1	EA	62694	SUF100-199NE STATE COMM NAT DIRECT VENT HTR	—

**state** WATER HEATERS **Force 90+ Power Direct Vent Water Heater**



- Modular blower, with 120V, 60 Hz electrical system (5 amps or less)
- Large LCD display
- Precise temperature control
- Advanced diagnostics
- Reduces NOx emissions
- CSA Certified and ASME rated T&P relief valve
- Maximum hydrostatic working pressure: 150 psi
- Three year limited tank warranty
- Combined horizontal and vertical vent runs terminating through outside wall, using Schedule 40 pipe as follows:
  - 2" pipe allows vent runs up to 20 equivalent feet
  - 3" pipe allows vent runs up to 60 equivalent feet
  - 4" pipe allows vent runs up to 120 equivalent feet

Model No.	BTU Input Per Hour	Tank Size (Gal.)	Recovery-GPH at Degree Rise			Dimensions (H x D)	Shipping Weight (Lbs.)
			40° F	100° F	140° F		
SHE50 100NE	100,000	50	291	116	83	68-1/2 x 22	255

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62294	SHE50-100NE STATE COMM NAT DIRECT VENT HTR	—

**state** WATER HEATERS **Commercial Storage Tank**



- 2" foam insulation.
- Heavy-gauge jacket finished with durable, attractive enamel finish.
- Glass lined models are equipped with one or more magnesium anode rods.
- Meets performance criteria set forth in ASHRAE 90.1b.1992 requirements and in BCA code.
- Standard tank design working pressure: 150 PSI.
- Tank inspection port for easy access to tank interior.
- Separate T&P valve opening for installation of properly sized T&P valve.
- 5-year tank warranty.

Tank Capacity Gallons	Height (In.)	Diameter (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
119	65	28	1	EA	62719	PVG-01200-OVT 119 GAL COMM STORAGE TANK	—

**state** WATER HEATERS **Commercial Water Heater Parts**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	66971	9002729 NAT HONEYWELL REPLACEMENT IGN MODULE	—
1	EA	62716	9000728015 2" SHANK T&P VALVE	—
1	EA	62728	9000547005 R/S NAT COMM GAS CONTROL VALVE	—
1	EA	62698	9000913005 W/R COMM THERMOSTAT W/ECO	—
1	EA	62711	9000954005 R/S NAT COMM GAS CONTROL VALVE	—
1	EA	62693	9001571005 3/4IN R/S CONT & T'COUP NAT GAS CONTROL VALVE	—
1	EA	62741	9001656005 T & P VALVE	—
1	EA	62738	9001772005 PILOT SHIELD	—
1	EA	62702	9002226005 R/S NAT IGNITION MODULE	—
1	EA	62731	9002398005 NAT PILOT W/SPARK IGN	—
1	EA	62729	9002537005 6IN BASE STYLE FLUE DAMPER ASSEMBLY	—
1	EA	62727	9002538005 7IN FLUE DAMPER ASSEMBLY	—
1	EA	66970	9002834005 RREPL-PRECISION SPEED NAT PILOT W/SPARK IGN	—
1	EA	62705	9004099215 CLEANOUT GASKET	—
1	EA	66047	9004240005 NAT GAS VALVE FOR 40-50 XCVIT	—
1	EA	62740	9005903205 T & P VALVE	—

**state** WATER HEATERS Premier High Efficiency Gas Water Heaters



The Premier High Efficiency gas water heaters provide the ideal blend of high efficiency and easy installation. The new design delivers 0.70 EF and is ENERGY STAR® qualified which delivers higher efficiency, simplifies installation and includes user-friendly features.

- Electronic ignition
- Thermistor sensing and microprocessor intelligence
- Easy-to-read LCD control display
- Connect to existing B-vent on replacements
- Powered anode

Model No.	Gallon Capacity	Energy Factor	BTU Input Per Hour	Recovery at 90° F Rise	First Hour Rating (GPH)	Foam Thickness (In.)	Height (In.)	Dia. (In.)	Draft Hood Outlet	Shipping Weight (Lbs.)
GP6 40 YPCT	40	0.70	40,000	43	70	2	58	20	3 or 4	157
GP6 50 YPCT	50	0.70	40,000	43	81	2	57-1/8	22	3 or 4	171

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2-5	PC-3 6
1	EA	63235	GP6-40-YPCT PREMIER HIGH EFFICIENCY STATE NAT HTR	—	—	—
1	EA	63236	GP6-50-YPCT PREMIER HIGH EFFICIENCY STATE NAT HTR	—	—	—

**state** WATER HEATERS Premier Power-Vent Residential Gas Water Heater



The Premier® Power-Vent is a residential gas water heater, equipped with a fully suberged, spiral-shaped condensing heat exchanger resulting in a 90% thermal efficiency. The Power-Vent can be installed in less space than a 75-gallon unit and delivers greater recovery and lower operating costs.

- Side-mounted taps for recirculating systems.
- Intelli-vent™ gas control with silicon nitride hot surface ignitor.
- Commercial-grade glass lining with two magnesium anode rods.
- Low-NOx Green Choice® Burner.
- PEXAN™ diffuser dip tube.
- Factory-installed temperature and pressure relief valve.
- Maximum hydrostatic working pressure 150 psi.

Model No.	Gallon Capacity	BTU Input/ Hour	Output (Gallons)		Dimensions (Inches)		Approx. Ship. Wt. (Lbs.)
			First Hr. Rating	Recovery 90° Rise	Height With Drafthood	Diameter	
GP6 50 YTVIT	50	76,000	127	92	70-5/8	22	210

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2-5	PC-3 6
1	EA	63105	GP6-50-YTVIT 90% PREMIER NAT POWER VENT HTR	—	—	—



## Premier Power-Vent DV Residential Gas Water Heater



The Premier Power direct-vent residential gas water heater is equipped with a fully submerged, spiral-shaped condensing heat exchanger, resulting in 96% thermal efficiency. It can be installed in less space than a 75-gallon unit yet delivers greater recovery and lower operating costs.

- Combined horizontal and vertical vent runs terminating through outside wall, using Schedule 40 PVC pipe as follows:  
 2" pipe allows vent runs up to 20 equivalent feet  
 3" pipe allows vent runs up to 60 equivalent feet  
 4" pipe allows vent runs up to 120 equivalent feet

- Side-mounted taps for recirculating systems
- Advanced electronic control
- Glass lined tank with two magnesium anode rods that provides superior protection against corrosion
- Commercial-grade glass lining protects all "water side" tank surfaces plus inside of internal heat exchanger exposed to condensate
- CSA certified and ASME rated T&P relief valve
- Maximum hydrostatic working pressure: 150 psi

Model No.	BTU Input/Hour	Tank Size (Gal.)	First Hour Delivery (Gal.)	Recovery Gal./Hr. at 90° F Rise	H x D (In.)	Ship Weight (Lbs.)
GP6 50 YTPDT	100,000	50	164	129	68-1/2 x 22	255

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2-5	PC-3 6
1	EA	63189	GP6-50-YTPDT 96% PREMIER NAT POWER DIRECT VENT HTR	—	—	—



## Select Residential Gas Power Vent Water Heaters with C3 Technology



- Power-Vent design. For installation versatility, system permits combined horizontal and vertical venting and air intake runs up to 80 feet (including one 90° elbow) using 3" Schedule 40 PVC, CPVC or ABS pipe.
- New Intelli-Vent gas control is equipped with a nearly-indestructible silicon nitride hot surface igniter, and advanced electronics for more precise control of water temperature and easy to understand system diagnostics.
- Quiet modular blower is equipped with 110/120 volt electrical system (rating 3 amps or less), 6 foot cord, standard 3-prong male connector.
- Diffuser dip tube helps reduce lime and PEX sediment buildup and maximizes hot water output. Made of State PEXAN, a cross link polymer that can withstand long-term exposure to water temperatures up to 400° F.
- Green Choice eco-friendly gas burner patented design reduces NOx emissions up to 33%.
- Durable brass tamper-resistant drain valve.
- Glasslined tank for long-lasting protection against rust and corrosion.
- Aluminum anode rod for additional protection against rust and corrosion.
- Factory installed temperature and pressure (T&P) relief valve.
- Thick, CFC free foam insulation.
- C3 Technology flammable vapor ignition resistant design.
- 6 year tank warranty.
- 6 year parts warranty.

### Important: Venting and Combustion Air Requirements

Read and follow requirements shown in the Installation Manual for Select Power-Vent Gas water heaters dealing with type, placement, and length of vent pipe and vent termination, as well as clearances required to provide adequate combustion air and proper ventilation.

Model No.	Gal. Cap.	BTU Input/Hour	Gallons/Hour 90° Recovery	Dimensions (Inches)		Draft Hood Outlet	Energy Factor	Approx. Ship. Wt.
				Height with Draft Hood	Diameter			
GS6-40-HBVIT*	40	40,000	44	63	18-1/2	2 or 3	.65	155
GS6-40-YBVIT	40	40,000	44	63	18-1/2	2 or 3	.65	155
GS6-50-HBVIT*	50	40,000	44	65	20	2 or 3	.65	195
GS6-50-YBVIT	50	40,000	44	65	20	2 or 3	.65	195
GS6-50-YRVIT	50	62,500	65	65	22	2, 3 or 4	.65	200
GS6-75-HRVIT*	74	80,000	86	66	25-1/2	3 or 4	N/A	300
GS6-75-YRVIT	74	80,000	86	66	25-1/2	3 or 4	N/A	300

\*LP Models

### Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2-5	PC-3 6
1	EA	63196	GS6-40-HBVIT STATE LP EI POWER VENT HTR	—	—	—
1	EA	63198	GS6-40-YBVIT STATE NAT EI POWER VENT HTR	—	—	—
1	EA	63197	GS6-50-HBVIT STATE LP EI POWER VENT HTR	—	—	—
1	EA	63199	GS6-50-YBVIT STATE NAT EI POWER VENT HTR	—	—	—
1	EA	63194	GS6-50-YRVIT-5 STATE NAT EI POWER VENT HTR	—	—	—
1	EA	63186	GS6-75-HRVIT STATE LP EI POWER VENT HTR	—	—	—
1	EA	63164	GS6-75-YRVIT STATE NAT EI POWER VENT HTR	—	—	—

**state** WATER HEATERS **Power Vent Water Heaters**



The power vent water heater has side-mounted taps designed for potable recirculating systems. It has a super quiet modular blower for power venting up to 70 ft. with 3 in. pipe and one elbow, vents up to 110 ft. with in. piping and one elbow. Equipped with the energy saving hot surface ignitor and advanced electronics for more precise control of water temperature and easy to understand system diagnostics.

- 110/120 Volt electrical system.
- Dual magnesium anode rods.
- Brass drain valve.
- CSA International certified E.C.O.
- Maximum hydrostatic working pressure 150 psi.
- Temperature-pressure relief valve—installed.
- Green Choice™ Eco-Friendly gas burner.
- Longer lasting PEXAN™ cold water tubes.

Model No.	Gallon Capacity	Energy Factor	BTU Input Per Hour Natural	Recovery Efficiency	BTU Output Per Hour Natural	90° F Recovery Rise (GPH)	Approx. Shipping Weight (Lbs.)
GS6-40-YBRT-L	50	.65	62,500	79%	49,400	64	190

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5
1	EA	88194	GS6-50-YRVIT-L5 STATE NAT POWER VENT HTR	—	—



## Select Residential Gas Water Heaters

### FVIR Gas Water Heater Design



- Flammable Vapor Ignition Resistance (FVIR) design.
- Diffuser dip tube helps reduce lime and sediment buildup, maximize hot water output. Made of State PEXAN™ a cross-link PEX polymer that can withstand long-term exposure to water temperatures up to 400° F.
- Green Choice™ eco-friendly gas burner patented design reduces NOx emissions by up to 33%, complies with southern California and Texas requirements.
- Easy-To-Light Piezo Igniter for fast "one-hand" pilot ignition.
- Durable brass tamper-resistant drain valve.
- Thick, CFC-free foam insulation.
- Glasslined tank for long-lasting protection against rust and corrosion.
- Aluminum anode rod helps protect against rust and corrosion for long tank life.
- Factory installed side mounted temperature and pressure (T&P) relief valve.
- Industry standard thermocouple.
- Burner operation viewed through new enlarged sight glass.
- 6 year tank warranty.
- 6 year parts warranty.

Model No.	Gal. Cap.	BTU Input/ Hour	Output (Gallons)		Dimensions (Inches)		Draft Hood Outlet	Energy Factor	Approx. Ship. Wt.
			First Hr. Rating	90° Recovery	Height with Drafhood	Diameter			
<b>Tall Units</b>									
GS6-30-YBRT	28	40,000	66	41	59-5/8	16	3 or 4	.61	112
GS6-40-YBRT	40	40,000	70	41	61-3/4	18	3 or 4	.59	126
GS6-40-HBRT*	40	36,000	70	41	61-3/48	18	3 or 4	.59	126
GS6-50-YBRT	50	40,000	88	41	60-3/4	20	3 or 4	.58	160
GS6-50-YRRT	48	50,000	90	51	60-7/8	20	4	.58	172
GS6-50-YRRT-5	50	65,000	93	67	63-7/8	22	4	.58	195
GS6-50-HBRT*	50	37,000	91	41	60-7/8	20	3 or 4	.58	160
<b>Short Units</b>									
GS6-30-YBRS	30	40,000	66	40	48-1/8	18-1/2	3 or 4	.61	122
GS6-40-YBRS	40	40,000	70	41	51-1/2	20	3 or 4	.59	139
GS6-40-HBRS*	40	36,000	70	41	51-1/2	20	3 or 4	.59	139
GS6-75-XRRS**	74	75,100	N/A	81	61	26-1/2	4	N/A	275
GS6-75-CRRS***	74	75,100	N/A	81	61	26-1/2	4	N/A	275

\* LP Models \*\*Not equipped with FVIR water heater design

### Tall Units

Prices Available on Request

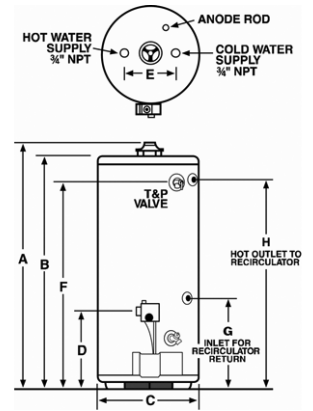
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2-5	PC-3 6
1	EA	62880	GS6-30-YORT (YBRT) STATE NAT HTR	—	—	—
1	EA	62881	GS6-40-YBRT STATE NAT HTR	—	—	—
1	EA	62882	GS6-40-HBRT STATE LP HTR	—	—	—
1	EA	62886	GS6-50-YBRT STATE NAT HTR	—	—	—
1	EA	62887	GS6-50-YRRT (YRRAT) STATE NAT HTR	—	—	—
1	EA	62888	GS6-50-YRRT-5 STATE NAT HTR	—	—	—
1	EA	62889	GS6-50-HBRT STATE LP HTR	—	—	—

### Short Units

1	EA	62900	GS6-30-YORS (YBRA, YBRS) STATE NAT HTR	—	—	—
1	EA	62901	GS6-40-YBRS (GS6-40-YBRA) STATE NAT HTR	—	—	—
1	EA	62903	GS6-40-HBRS STATE LP HTR	—	—	—
1	EA	62904	GS6-75-XRRS STATE NAT HTR	—	—	—
1	EA	63185	GS6-75-CRRS STATE LP HTR	—	—	—

**state** Standard Vent Water Heaters  
WATER HEATERS

- Side-mounted taps designed for potable recirculating systems
- Piezo Ignitor
- Dual magnesium anode rods
- Brass drain valve
- CSA International certified E.C.O.
- Maximum hydrostatic working pressure 150 psi
- Temperature-pressure relief valve
- Green Choice™ Eco-friendly gas burner
- Longer lasting PEXAN™ cold water tubes
- With C3 Flammable Vapor Ignition Resistant Technology



Model Number	Gal. Cap.	Energy Factor	BTU Input Per Hour Nat./Propane	Recovery Efficiency	First Hour Rating	BTUH Output Nat./Propane	Recovery-GPH Degree Rise		Draft Hood Outlet (In.)	Approx. Ship Wt. (Lbs.)
							90°	60°		
GS6-40-YBRT-L	40	.59	40,000/37,000	74%	71	29,600/27,380	40	60	3-4	135
GS6-40-YRRT-L5	38	.60	50,000/47,000	71%	88	35,500/33,370	48	71	4	138
GS6-50-YRRT-L	48	.58	50,000/45,000	76%	90	38,000/34,200	51	77	4	172
GS6-50-YRRT-L5	50	.58	65,000/55,000	77%	93	50,050/42,350	67	100	4	195

Model Number	Dimensions (In.)							
	A	B	C	D	E	F	G	H
GS6-40-YBRT-L	59-7/8	55-1/2	18-1/2	13-1/2	8	49	14-1/2	49
GS6-40-YRRT-L5	58-1/2	54-3/4	20-1/2	13-1/2	8	49	14-1/2	49
GS6-50-YRRT-L	60-7/8	56-1/2	20	13-1/2	8	50-1/4	14-1/2	50-1/4
GS6-50-YRRT-L5	63-3/4	59-1/2	22	15-1/2	8	54	14-1/2	54

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5
1	EA	88190	GS6-40-YBRT-L STATE NAT HTR	—	—
1	EA	88192	GS6-40-YRRT-L STATE NAT HTR	—	—
1	EA	88191	GS6-50-YRRT-L5 STATE NAT HTR	—	—
1	EA	88193	GS6-50-YRRT-L STATE NAT HTR	—	—



**state** WATER HEATERS **Direct Vent Water Heaters**

- Side-mounted taps designed for potable recirculating systems
- Direct-vent design
- Piezo Ignitor
- Dual magnesium anode rods
- Brass drain valve
- CSA International certified E.C.O.
- Maximum hydrostatic working pressure 150 psi
- Temperature-pressure relief valve
- Green Choice™ Eco-friendly gas burner
- Longer lasting PEXAN™ cold water tubes
- With C3 Flammable Vapor Ignition Resistant Technology



Model Number	Gallon Capacity	Energy Factor (EF)	BTU Input Per Hour Natural	Recovery 90° F Rise	BTU Output Per Hour Natural	First Hour Rating	Approx. Shipping Weight (Lbs.)
GS6-40-YBDS-L	40	.62	38,000	41	30,780	73	167
GS6-50-YRDS-L	50	.59	50,000	55	40,500	88	187

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5
1	EA	88195	GS6-40-YBDS-L STATE NAT DIRECT VENT HTR	—	—
1	EA	88196	GS6-50-YRDS-L STATE NAT DIRECT VENT HTR	—	—

**state** WATER HEATERS **Circulating Loop Connection Assembly Kits**

The return loop recirculating fitting kit is used on systems that have a check valve installed in the air handler. Includes di-electrical unions and isolation valves.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62761	9002604005 RETURN LOOP RECIRCULATING FITTING KIT	—



## Premier Residential Gas Hybrid Water Heater



- Patented circulation system delivers 90% thermal efficiency
- Patented water flow circulation system provides the performance of a tankless unit with extremely quick recovery
- Internal storage easily handles peak demand
- Smaller than a conventional 50-gallon gas water heater, but with twice the hot water delivery
- Sophisticated electronics with multiple lifestyle modes
- Low installation cost

Model No.	First Hour Rating (Gallons)	Recovery 90° F Rise (Gallons)	Input BTU/Hr.	Manifold Pressure			Electrical Characteristics		Shipping Weight (Lbs.)
				Gas Type	In. WC	KPA	Volts/Hz	Amperes	
GH-90N	189	121	100,000	NAT	4.2	1.05	120/60	2.5	198

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2-5	PC-3 6
1	EA	63237	GPH-90N PREMIER HYBRID STATE NAT HTR	—	—	—



## Premier Hybrid Electric Heat Pump Water Heater



State Premier Hybrid electric heat pump water heaters have higher capacity, designed to optimize the impact of the efficient heat pump technology. More storage capacity lets you store more of the hot water that was created by the heat pump. This capacity also enables the unit to operate in the maximum efficiency mode more often than other models with lower capacities.

- Efficiency mode utilizes only the heat pump to extract warmth from the surrounding air and transfer it to the water.
- Hybrid mode utilizes both the heat pump and conventional electric element to provide the needed amount of hot water.
- Electric mode makes the unit operate as a conventional electric model utilizing the elements only to provide quick recovery.
- Vacation mode will maintain the tank temperature at 60° F during vacation or extended absence.

Model No.	Gallon Capacity	Energy Factor by Mode			First Hour Rating by Mode			Height (In.)	Dia. (In.)	Shipping Weight (Lbs.)
		Efficiency*	Hybrid	Electric	Efficiency	Hybrid	Electric			
EPX-80DHPT	80	2.30	2.33	.85	70	84	76	81-1/2	24-1/2	410

\* Up to a 2.4 Energy Efficient (EF) rating in efficiency mode.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2-5	PC-3 6
1	EA	63238	EPX-80-DHPT PREMIER HYBRID HEAT PUMP STATE ELECT HTR 240V	—	—	—



# Residential Select Electric Water Heaters



### Tall, Short, and Lowboy Models

- Longer lasting low watt density copper lower Sandhog heating element. Upper heating element is high-watt density copper element.
- Diffuser dip tube helps reduce lime and sediment buildup and maximize hot water output. Made of State PEXAN™ a cross-link PEX polymer that can withstand long-term exposure to water temperatures up to 400° F.
- Aluminum anode rod helps protect against corrosion for longer life.
- Durable tamper-resistant brass drain valve.
- Glasslined tank for long-lasting protection against rust and corrosion.

- Factory installed side mounted temperature and pressure (T&P) relief valve. (Top-mounted T&P available as option on some models.)
- 4500 watt heating elements.
- 6 year warranty.
- 6 year parts warranty.

### Junior Models

These models feature compact design, side-mounted plumbing and electrical connections. Designed for installation under a counter, in a crawl space or in other tight spaces. Tank capacities from 6 through 30 gallons. Single heating element standard.

Model No.	Gallon Capacity	Element Wattage 240Vac		Output (Gallons)		Dimension (Inches)		Energy Factor	Approx. Shipping Weight (Lbs.)
		Standard	Maximum	First Hour Rating	90° Recovery	Height	Diameter		
<b>Lowboy Models</b>									
ES6-30-DOLS*	29	4500	6000	41	21	30	22	.93	105
ES6-40-DOLNS*	38	4500	6000	48	21	31-1/4	23	.92	125
<b>Short Models</b>									
ES6-40-DORS*	40	4500	6000	52	21	44	20-1/2	.92	115
ES6-50-DORS*	50	4500	6000	62	21	48	22	.90	150
<b>Tall Models</b>									
ES6-30-DORT*	30	4500	6000	43	21	46-1/2	18	.93	95
ES6-40-DORT	40	4500	6000	52	21	59-1/2	18	.92	115
ES6-52-DORT	50	4500	6000	60	21	54	20-1/2	.91	125
ES6-80-DORT	80	4500	6000	81	21	60-1/2	24	.86	200
<b>Junior Models</b>									
ES6-6-SOM-S	6	1650	3000	N/A	8	15-1/4	14-1/8	N/A	31
ES6-10-SOM-S	10	1650	4500	N/A	8	18-1/4	16	N/A	45
ES6-20-SOM-S	19	1650	4500	N/A	8	25	18	N/A	65
ES6-20-SOM-T	19.9	1650	4500	N/A	8	31-3/4	16	N/A	62
ES6-30-SOMS-K	29	1650	6000	N/A	8	30	22	.93	111

\* Models supplied with Heat Trap Nipples

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2-5	PC-3 6
1	EA	62907	ES6-30-DOLS STATE ELECT HTR 240V 4500W	—	—	—
1	EA	62908	ES6-40-DOLNS STATE ELECT HTR 240V 4500W	—	—	—
1	EA	62913	ES6-40-DORS STATE ELECT HTR 240V 4500W	—	—	—
1	EA	62916	ES6-50-DORS STATE ELECT HTR 240V 4500W	—	—	—
1	EA	62909	ES6-30-DORT STATE ELECT HTR 240V 4500W	—	—	—
1	EA	62912	ES6-40-DORT STATE ELECT HTR 240V 4500W	—	—	—
1	EA	62914	ES6-52-DORT STATE ELECT HTR 240V 4500W	—	—	—
1	EA	62918	ES6-80-DORT STATE ELECT HTR 240V 4500W	—	—	—
1	EA	62870	ES6-6-SOM-S (P6-6-1OMS-K) STATE ELECT HTR 120V 1650W	—	—	—
1	EA	62871	ES6-10-SOMS (P6-10-1OMS-K) STATE ELECT HTR 120V 1650W	—	—	—
1	EA	62872	ES6-20-SOM-S (P6-17-1OMS-K) STATE ELECT HTR 120V 1650W	—	—	—
1	EA	62873	ES6-20-SOM-T (P6-20-1OMS-K) STATE ELECT HTR 120V 1650W	—	—	—
1	EA	62919	ES6-30-SOMS-K STATE ELECT HTR 120V 1650W	—	—	—



# Water Heaters for Manufactured Housing



- Single anode rod
- Foam insulation reduces fuel costs
- CSA certified and ASME rated T&P relief valve
- External Silencer™ heat trap nipples
- Piezo ignitor
- Manufactured housing models meet HUD requirements for manufactured housing installations, equipped with convertible gas control for natural or propane gas
- 6-year tank warranty
- 2-year parts warranty

Model No.	Series	Gallon Capacity	Energy Factor	Input BTU/HR Natural	90° F Rise Recovery GPH	Vent Connections (In.)	Diameter (In.)	Height (In.)	Loading Percent 53'	Approx. Shipping Weight (Lbs.)
<b>Standard Models</b>										
GS6 30 YOMT	200	30	.61	35,000/32,000	36	3 or 4	16	61-1/2	.39	115
GS6 40 YOMT	200	40	.59	35,500/35,500	37	3 or 4	18	59-1/4	.47	134
<b>Direct Vent System Models</b>										
PR6 30 NHDST 2	N/A	30	.61	30,000/30,000	31	-	18	56	.39	115
PR6 40 NHDST 2	N/A	40	.59	32,000/32,000	33	-	20	56-1/2	.53	134
PR6 50 NHDST 2	N/A	50	.58	38,000/38,000	39	-	22	56-1/2	.47	170

### Standard Models with Convertible Controls

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2-5	PC-3 6
1	EA	86788	GS6-30-YOMT STATE NAT HTR	—	—	—
1	EA	86789	GS6-40-YOMT STATE NAT HTR	—	—	—

### Direct Vent System Models

1	EA	86790	PR6-30-NHDST-2 STATE NAT HTR DIRECT VENT	—	—	—
1	EA	86791	PR6-40-NHDST-2 STATE NAT HTR DIRECT VENT	—	—	—
1	EA	86792	PR6-50-NHDST-2 STATE NAT HTR DIRECT VENT	—	—	—

### Direct Vent System Roof Jack Kits

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	86793	9002964005 12" NON-ADJUSTABLE DIRECT VENT ROOF JACK KIT	—
1	EA	86794	9002965005 32"(12"-32"ADJUSTABLE) DIRECT VENT ROOF JACK KIT	—
1	EA	86795	9002966005 60"(32"-60"ADJUSTABLE) DIRECT VENT ROOF JACK KIT	—
1	EA	86796	9002967005 95"(65"-90"ADJUSTABLE) DIRECT VENT ROOF JACK KIT	—



## Pipe Adaptors For Residential Electric Water Heaters

### Copper to Male Pipe Adapters

Prices Available on Request

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2-5	PC-3 6
25	EA	54209	WC401 7/8 OD X 3/4 MPT ADAPTER	—	—	—

### Copper to Female Pipe Adapters

25	EA	54193	WC402 7/8 OD X 3/4 FPT ADAPTER	—	—	—
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**Parts for Select Water Heaters with C3 Technology**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	68608	9003379005 NAT GAS BURNER ASSEMBLY	—
1	EA	68602	9003380005 NAT GAS BURNER ASSEMBLY	—
1	EA	68617	9003383005 NAT GAS BURNER ASSEMBLY	—
1	EA	68594	9003407005 NAT GAS CONTROL VALVE	—
1	EA	68595	9003408005 PROPANE GAS CONTROL VALVE	—
1	EA	68646	9003410015 PIEZO IGNITOR W/BRACKET	—
1	EA	68618	9003521005 200 DEG C NAT FV NAT PILOT ASSEMBLY	—
1	EA	68638	9003541005 160 DEG C LP FV PILOT ASSEMBLY	—
1	EA	68603	9003563005 NAT GAS BURNER ASSEMBLY	—



**Parts for Residential Gas and Electric Water Heaters**

**Thermostats**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62707	9000246005 W/R NAT RES GAS CONTROL	—
1	EA	62733	9000248005 RES W/R NAT GAS THERMOSTAT	—
1	EA	62734	9000249005 W/R NAT RES GAS THERMOSTAT LS	—
10	EA	62735	9000507005 WH-9 LOWER THERMOSTAT 240V	—
10	EA	62742	9000523015 WH9-6/D 240V SNGL ELEM THERMOSTAT W/COVER	—
10	EA	62747	9001954015 WH10-6A 240V UPPER THERMOSTAT W/ECO	—

**Heating Elements**

10	EA	62671	9000030005 ELEMENT ADAPTOR KIT	—
10	EA	62670	9000095045 240V 4500W TR-LW ELEM	—
10	EA	62667	9000253000 120V 1650W TR-LW ELEM	—
10	EA	62668	9000405005 240V 4500W INCOLOY TR-SH ELEM	—
1	EA	62753	9002442015 1 3/8IN 4500 BETTER TR-LW ELECTRIC HEATING ELEMENT	—
1	EA	62752	9002450015 1 3/8IN 4500 BEST WSHTR ELECTRIC HEATING ELEMENT	—

**Miscellaneous**

1	EA	75826	37C73U-170 1/2IN N.P.T. INLET NAT GAS ONLY WATER HEATER CONTROL	—
1	EA	75827	37C73U-173 1/2IN N.P.T. INLET NAT GAS ONLY WATER HEATER CONTROL	—
1	EA	62666	9000029005 29IN ALUM ANODE ROD	—
10	EA	62778	9000509015 120-240 VAC WH9-6 SNGL ELEM HTR THERMOSTAT W/ECO	—
1	EA	66908	9001453005 45IN KA90 ALUMINUM ZINC ANODE ROD	—
1	EA	62356	9001829005 32IN MAGNESIUM .84 DIA ANODE ROD	—
1	EA	62777	9001976005 AIR PRESSURE SWITCH	—
1	EA	62697	9002391005 R/S 26IN COMM THERMOCOUPLE-PILOT GENERATOR	—
1	EA	62724	9002453005 120V NAT (PV) GAS VALVE	—
1	EA	62932	9002518015 HOT SURFACE IGNITOR ASSEMBLY	—
10	PKG	62717	9002563015 3/4" X 2 1/2" PEXLINED NIPPLE (1 PKG OF 2)	—
1	EA	62730	9002832005 GAS CONTROL VALVE	—
1	EA	62357	9002984015 R/S NAT GAS PILOT W/TUBING & ADAPT	—
1	EA	62358	9003040005 #0002000830 MAIN GAS BURNER	—
1	EA	62375	9003385005 NATURAL MAIN BURNER	—
1	EA	68096	9003406005 AIR INTAKE SCREEN	—
1	EA	62456	9003484005 T&P RELIEF VALVE	—
1	EA	62381	9003494005 NATURAL MAIN BURNER ORIFICE	—
1	EA	64384	9003531005 180 DEG FV NAT PILOT ASSEMBLY	—
1	EA	69461	9003542005 190 DEG C NAT FV PILOT ASSEMBLY	—
1	EA	62182	9003626005 75 GAL HOT SURFACE IGNITOR	—
1	EA	65216	9003629005 INTELLIVENT NAT GAS VALVE FOR 75XCVIT	—
1	EA	64855	9003739005 GAS VALVE	—
1	EA	62341	9003892005 33IN ALUMINUM ANODE	—
1	EA	69972	9003944005 16IN ALUM ANODE ROD	—
1	EA	64846	9004027005 POWER VENT ASSEMBLY	—
1	EA	66047	9004240005 NAT GAS VALVE FOR 40-50 XCVIT	—
1	EA	62489	9004267005 INTELLIVENT NATURAL GAS VALVE	—
1	EA	62397	9004306005 BLOWER ASSEMBLY	—
1	EA	69974	9004312005 NAT GAS CONTROL VALVE	—
1	EA	62398	9004315 IGNITER ASSEMBLY	—
1	EA	62405	9004316005 BLOWER ASSEMBLY	—
1	EA	64069	9004440105 NAT SMART VALVE	—
1	EA	64908	9004441105 PROPANE SMART VALVE	—
1	EA	65406	9004487105 HSI IGNITION CONTROL	—
1	EA	65408	9004492 IGNITION CONTROL MODULE	—

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STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62446	9004519205 IGNITER ASSEMBLY	—
1	EA	62865	9004520215 FLAME SENSOR	—
1	EA	62451	9004521205 NAT GAS VALVE	—
1	EA	64077	9004527205 NAT 24 GAS VALVE	—
1	EA	64079	9004528205 PROPANE GAS VALVE	—
1	EA	64080	9004529005 11B79-3 AQUASTAT DUAL LIMIT CONTROL	—
1	EA	64083	9004531205 11B79-2 AQUASTAT DUAL CONTROL	—
1	EA	64916	9004541215 NAT PILOT ASSEMBLY	—
1	EA	64087	9004544205 IID IGNITION MODULE	—
1	EA	62866	9004606205 IGNITOR ASSEMBLY	—
1	EA	62902	9004703105 NAT T-STAT	—
1	EA	64121	9004771115 THERMOCOUPLE	—
1	EA	64122	9004975105 WR11B95-31 DUAL CONTROL	—
1	EA	62910	9004988115 NAT E44576 PILOT BURNER ASSY	—
1	EA	64355	9005044205 11B06-48 WELL CONTROL	—
1	EA	62454	9005095205 ANODE ROD	—
1	EA	64572	9005113005 GAS VALVE	—
1	EA	62911	9005256015 FIELD REPLACEMENT IGNITER	—
1	EA	64078	9005725015 WIRING HARNESS KIT	—
1	EA	65404	9005726215 AIR SENSING SWITCH	—
1	EA	63142	9005886215 FLAME SENSOR	—
1	EA	64923	9005891105 NAT THERMOSTAT	—
1	EA	64924	9005892215 1000 ONLY FLAME SENSOR LEGEND	—
1	EA	69997	9005899205 3/4IN 150# T&P RELIEF VALVE	—
1	EA	83845	9005908205 THERMAL BALANCER	—
1	EA	62459	9005938005 P40-40 NATURAL GAS BURNER ASSEMBLY	—
1	EA	62460	9005939005 P50-40 NAT GAS BURNER ASSEMBLY	—
1	EA	62461	9005958005 HOT SURFACE IGNITER ASSEMBLY W/DOOR GASKET	—
1	EA	62885	9005962005 GAS CONTROL VALVE	—
1	EA	66909	9005964005 GAS VALVE	—
1	EA	83337	9005968015 FLAME VAPOR SENSOR	—
1	EA	62464	9006019015 NATURAL GAS BURNER ASSEMBLY	—
1	EA	64076	9006022015 WIRING HARNESS KIT	—
1	EA	83336	9006029015 FLAME VAPOR SENSOR & BRACKET	—
1	EA	62471	9006030005 BLOWER ASSEMBLY	—
1	EA	83844	9006055205 GAS VALVE (36C74 913)	—
1	EA	64075	9006101205 IGNITER	—
1	EA	83334	9006655005 GAS VALVE NAT	—
1	EA	69973	9006666015 200 SERIES NATURAL PILOT ONLY	—



**Select® 8 Warranty Extension Kits**

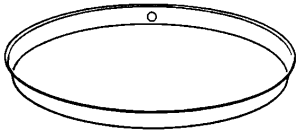
State offers this kit to enable licensed plumbing contractors to extend the limited warranties on eligible Select water heaters from 6 years to 8 years on the tank. The kit contains instructions, an extension sticker, and a certificate request form.

**The following Select models are eligible for Select 8 Warranty Extension.**

Gas Models			Electric Models		
GS6 30 YBRT	GS6 40 YRRT	GS6 30 YOCT	ES6 30 DORT	ES6 30 DORS	ES6 40 DOCT
GS6 40 YBRT	GS6 50 YRRT	GS6 40 YOCT	ES6 40 DORT	ES6 40 DORS	ES6 52 DOCT
GS6 50 YBRT	GS6 50 YRRT 5	GS6 50 YOCT	ES6 52 DORT	ES6 50 DORS	ES6 66 DOCT
GS6 30 YBRS	GS6 65 XRRT		ES6 55 DORT	ES6 30 DOLS	ES6 30 DOCT
GS6 40 YBRS			ES6 66 DORT	ES6 40 DOLS	ES6 40 DOCT
GS6 50 YBRS				ES6 50 DOLS	

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62762	9004328005 STATE SELECT 8 WARRANTY EXTENSION KIT	—

## Water Heater Accessories



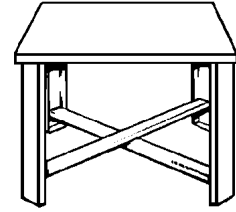
WHP Water Heater Drain Pan



Water Heater Connector



Di-electric Union



Water Heater Stand

### WHP Water Heater Drain Pan

Round, black, high-impact plastic pan protects floors and ceilings from water damage. Top O.D. 30", bottom diameter 24", and 1" drain hole with gasket.

### Direct Coupling Water Heater Connector

1-piece, leakproof, water heater connector.  
Lenth: 18" or 24"

### Di-electric Union

Di-electric units help prevent electrolysis between iron and copper for longer water heater life. Female iron pipe to sweat copper.

### Water Heater Stand

18" and 24" diameter are both 18" high. Meets new safety codes.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
20	EA	13383	WHP-24-5 24 IN WATER HEATER PAN	—	—
25	EA	53320	W034SS101018 3/4" FIPX3/4" FIPX18" WATER HEATER CONN	—	—
25	EA	53321	W034SS101024 3/4" FIPX3/4" FIPX24" WATER HEATER CONN	—	—
120	EA	53459	SWT T-571 1IN GALV DI-ELECTRIC UNION	—	—
144	EA	53460	SWT T-571 3/4IN GALV DI-ELECTRIC UNION	—	—
48	EA	53461	SWT T-571 1 1/2IN GALV DI-ELECTRIC UNION	—	—
1	EA	53462	SWT T-571 1 1/4IN GALV DI-ELECTRIC UNION	—	—
144	EA	53549	SWT T-571 1/2IN DI-ELECTRIC UNION	—	—
1	EA	62689	9005743005 21IN WTR HTR STAND KIT	—	—
1	EA	62690	9005744005 24IN WTR HTR STAND	—	—



## Hot Water Recirculation Comfort Pump Retrofit



The Comfort System uses its patented pumps to provide instant availability of hot water at the point of use.

The Comfort Valve is installed at the furthest fixture from the hot water tank. With a built in timer the pump allows hot water to circulate along the loop through the valve using the cold water side as a return line. As the temperature rises to 100° the valve closes directing hot water to the tap, resulting in a constant availability of hot water.

- No return line required.
- Easy installation.
- True retrofit design.

### Pump Technical Data:

- Flow Range: 0 to 3.4 U.S. GPM
- Head Range: 0 to 3.5 U.S. Feet
- Motor: Single Phase, 115V
- Min. Fluid Temperature: 36°F
- Max. Fluid Temperature: 150°F
- Max. Working Pressure: 145 PSI

### Valve Technical Data:

- Patented technology
- Integral check valve
- Electrical Connection: The pump is fitted with 10 foot cord and 115V plug.
- Timer: 24 hr, 3 position, 15 minute intervals.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	66305	UP15-10SU7P-TLC INSTANT HOT WTR RECIRCULATION PUMP W/VALVE	—
15	EA	66304	595926 COMFORT VALVE	—



## Hot Water Recirculation Comfort Pump

### New Construction



The new Comfort System recirculation pump utilizes a return line to accommodate not only a timer but an aquastat to deliver instantaneous hot water.

- Requires a return line
- Great for new construction

#### Pump Technical Data:

**Flow Range:** 0 to 3 U.S. GPM

**Head Range:** 0 to 5.4 U.S. Feet

**Motor:** Single Phase, 115V

**Min. Fluid Temperature:** 36° F

**Max. Fluid Temperature:** 203° F\*

**Max. Working Pressure:** 145 PSI

**Electrical Connection:** The pump is fitted with 5 foot cord and 115V plug. A green light on the motor is on when power is supplied to the pump.

**Pump Control:** The timer is 24-hour AM/PM, 20 minute intervals. The built-in aquastat can be set to stop the pump at a preset liquid temperature. The setting range is 95° to 150° F.

\* For open systems, 140° F is the max. temp. to avoid precipitation of calcium in water.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	66316	UP10-16BN5 ATLC INSTANT HOT WTR RECIRCULATION PUMP	—



## Thermo Expansion Tanks

### for Potable Hot Water Heaters

Meets code for hot water heaters used with Apollo systems to prevent relief valve discharge on every heating cycle. Use PH-5 Expansion Tanks for water temperatures 130 to 180° F.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	62931	PH-5 EXPANSION TANK	—



## Honeywell AMX101 Thermostatic Mixing Valve

### DirectConnect™ Model



- Engineered for fast installation. The orientation of the mix and cold ports eliminates the need for elbows on water heater installations.
- Reduces installation time and number of parts by half.
- Adjustable temperature range: 90° to 130°F
- Easy recirculation; integrated NPT port allows for optional recirculation.
- DirectConnect™ to water heater —NPT bottom connection attaches easily.
- Built-in check valve prevents reverse flow of hot water through the cold port.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	69010	AMX101-US-1 3/4" SWEAT DIRECTCONNECT VALVE	—

## Honeywell AMX101 Thermostatic Mixing Valve



- Designed to prevent scalding; meets multiple industry safety certification: ASSE 1016 and 1017, CSA and IAPMO.
- Designed to increase the amount of usable hot water by up to 50%.
- Allows homeowners to store water at 140° F to prevent Legionella growth, but receive safe, comfortable water at sinks, shower or tub.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	69019	AM101-US-1/U 3/4" SWEAT THERMOSTATIC MIXING VALVE	—

## Honeywell AMX300 Thermostatic Mixing Valve Kit



- Kit includes mixing valve, cold water tee, 8" metal connector and thermostrip.
- Easy installation on water heaters
- Commonly used for scalding protection and more usable hot water
- ASSE 1017 approved for point of source/whole house protection
- Teflon® coating extends service valve
- Integrated recirculation, hot and cold water ports

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	69034	AMX300T/U DIRECT CONNECT WATER HEATER KIT 3/4 INCH	—
1	EA	69035	AMX300U 3/4 INCH ASSE 1017 MIXING VAVLE ONLY FOR AMX300T	—

# Uponor AquaPex® Potable Water System



AquaPex tubing is cross-linked polyethylene tubing for hot and cold potable water service and distribution. Non-toxic formula makes it completely clean, healthy, and safe. Smooth, cross-linked structure makes it resistant to corrosion. AquaPex tubing will not corrode, pit, or scale.

### Temperature and Pressure Ratings:

73.4° F @ 160 PSI

180° F @ 100 PSI

200° @ 80 PSI

### NOTE:

- DO NOT use AquaPex where temperature and pressure consistently exceed ratings.
- DO NOT use or store AquaPex where it will be exposed to direct sunlight for more than 30 days.
- DO NOT weld or glue AquaPex.
- DO NOT apply open flame to AquaPex.
- DO NOT install AquaPex within 6" of any gas appliance vents or within 12" of any recessed light fixtures.
- DO NOT solder within 18" of any AquaPex tubing in the same water line.
- DO NOT use AquaPex tubing for an electrical ground.

### Pex Coils for Potable Water

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5
1	CL	68440	F1060500 1/2 AQUAPEX 300 FT	—	—
1	CL	68441	F1060750 3/4 AQUAPEX 300 FT	—	—
1	CL	68442	F1061000 1" AQUAPEX 300 FT	—	—

### ProPex 1" Copper Manifolds with 1/2" Outlets

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	68443	Q2801050 1" PROPEX MANIFOLD 4 OUTLET 1/2"	—
1	EA	68444	Q2811050 1" PROPEX MANIFOLD 6 OUTLET 1/2"	—
1	EA	68445	LF2821050 1" PROPEX MANIFOLD 8 OUTLET 1/2"	—
1	EA	68446	Q2831050 1" PROPEX MANIFOLD 10 OUTLET 1/2"	—
1	EA	68447	Q2841050 1" PROPEX MANIFOLD 12 OUTLET 1/2"	—
1	EA	68587	Q2807550 1"PROPEX MANIFOLD W/3/4" PROPEX END 4 OUTLETS 1/2"	—
1	EA	68588	Q2817550 1"PROPEX MANIFOLD W/3/4" PROPEX END 6 OUTLETS 1/2"	—
1	EA	68589	Q2827550 1"PROPEX MANIFOLD W/3/4" PROPEX END 8 OUTLETS 1/2"	—
1	EA	68590	Q2807557 1"PROPEX MANIFOLD W/3/4" PROPEX ENDS 4 OUTLETS 1/2"	—
1	EA	68591	Q2817557 1"PROPEX MANIFOLD W/3/4" PROPEX ENDS 6 OUTLETS 1/2"	—
1	EA	68592	Q2827557 1"PROPEX MANIFOLD W/3/4" PROPEX ENDS 8 OUTLETS 1/2"	—

### Copper 1" Manifolds with 3/4" Copper Outlets

1	EA	68451	F2741075 1" COPPER MANIFOLD 2 OUTLET 3/4"	—
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### ProPex Male NPT (Pex to Male NPT) Fittings

10	EA	68437	Q4526375 MALE NPT 5/8" PEX X 3/4" NPT FITTING	—
25	EA	68453	LF4525050 MALE NPT 1/2" PEX X 1/2" NPT FITTING	—
25	EA	68454	LF4527575 MALE NPT 3/4" PEX X 3/4" NPT FITTING PROPEX LF	—
10	EA	68455	LF4521010 PRO PEX 1"X1" NPT BRASS FITTING	—

### ProPex Female NPT (Pex to Female NPT) Fittings

25	EA	68456	LF4575050 FEMALE NPT 1/2 PEX X 1/2 NPT FITTING	—
25	EA	68457	Q4577575 FEMALE NPT 3/4 PEX X 3/4 NPT FITTING	—
10	EA	68458	LF4571010 FEMALE NPT 1"PEX X 1"NPT FITTING	—

### ProPex Fitting Assemblies

10	EA	68435	Q4020500 1/2" PEX FITTING ASSEMBLY	—
10	EA	68436	Q4020625 5/8" PEX FITTING ASSEMBLY	—

### ProPex Coupling (Pex to Pex)

10	EA	66774	Q4776363 5/8"PEX X 5/8"PEX PLASTIC COUPLING	—
25	EA	68375	Q4773838 3/8"PEX X 3/8"PEX PLASTIC COUPLING	—
25	EA	68379	Q4775050 1/2"PEX X 1/2"PEX PLASTIC COUPLING	—
25	EA	68399	Q477575 3/4"PEX X 3/4"PEX PLASTIC COUPLING	—
10	EA	68574	Q4771010 1" PEX X 1" PEX PLASTIC COUPLING	—

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**ProPex Tees (Pex to Pex to Pex)**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
25	EA	68439	Q4757575 3/4"PEX X 3/4"PEX X 3/4" PEX PLASTIC TEE	—
10	EA	68468	Q4701751 1"PEX X 3/4"PEX X 1"PEX BRASS TEE	—
10	EA	68469	Q4701775 1"PEX X 3/4"PEX X 3/4" PEX BRASS TEE	—
25	EA	68520	Q4755050 1/2"X1/2"X1/2"PEX PLASTIC TEE	—
25	EA	68521	Q4757550 3/4"X3/4"X1/2"PEX PLASTIC TEE	—
25	EA	68522	Q4757555 3/4"X1/2"X1/2"PEX PLASTIC TEE	—
25	EA	68523	Q4757557 3/4"X1/2"X3/4"PEX PLASTIC TEE	—
10	EA	68593	Q4751010 1"PEX X 1"PEX X 1"PEX PLASTIC TEE	—

**ProPex Adapter (Pex to Copper Pipe)**

10	EA	68397	Q4516350 5/8"PEX X 1/2"CU ADAPTER	—
10	EA	68398	Q4516375 5/8"PEX X 3/4"CU ADAPTER	—
25	EA	68472	LF4515050 1/2"PEX X 1/2"CU ADAPTER Q4515050	—
25	EA	68473	LF4517575 3/4"PEX X 3/4"CU ADAPTER	—
10	EA	68474	LF4511010 1"PEX X 1"CU PROPEX LF BRASS SWEAT ADAPTER	—
25	EA	68511	Q4515075 1/2"PEX X 3/4"CU ADAPTER	—
10	EA	68512	Q4517510 3/4"PEX X 1"CU ADAPTER	—

**ProPex Fitting Adapters (Pex to Copper Fittings)**

25	EA	68475	LF4505050 1/2"PEX X 1/2"CU FITTING ADAPTER	—
25	EA	68476	LF4507575 3/4"PEX X 3/4"CU FITTING ADAPTER	—
10	EA	68477	LF4501010 1"PEX X 1"CU FITTING ADAPTER	—

**ProPex Fittings, Elbows**

25	EA	68518	Q4760500 1/2"X1/2"PEX PLASTIC ELBOW	—
25	EA	68519	Q4760750 3/4"X3/4"PEX PLASTIC ELBOW	—

**Stub Outs**

25	EA	68420	F5120500 1/2" DROP EAR BEND SUPPORT	—
25	EA	68478	Q4235050 1/2"PEX X 1/2"FEMALE NPT DROP EAR ELBOW	—
25	EA	68479	F5140500 1/2" STRAIGHT-THRU SUPPORT	—
25	EA	68480	Q2885050 1/2"PEX X 1/2"CU PROPEX COPPER TUB ELL	—
25	EA	68481	LF2865050 1/2"PEX X 1/2"CU PROPEX COPPER STUB ELL	—
25	EA	68482	Q2897575 3/4"PEX X 3/4"CU PROPEX COPPER STUB ELL	—

**Brass ProPex Plugs**

25	EA	68483	Q4535050 1/2"PEX PLUG BRASS	—
25	EA	68484	Q4537575 3/4"PEX PLUG BRASS	—
10	EA	68485	Q4531000 1"PEX PLUG BRASS	—

**Plastic ProPex Plugs (For Pressure Testing and Permanent Installations)**

25	EA	68486	Q4350500 1/2"PEX PLUG PLASTIC	—
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**ProPex Rings (Spare Parts)**

50	EA	66767	Q4690302 3/8"PEX BLUE RING	—
50	EA	68488	Q4690501 1/2"PEX RED RING	—
50	EA	68489	Q4690512 1/2"PEX BLUE RING	—
50	EA	68491	Q4690751 3/4"PEX RED RING	—
50	EA	68492	Q4690756 (Q4690752) 3/4" RING	—
50	EA	68493	Q4691000 1"PEX WHITE RING	—
50	EA	68510	Q4680625 5/8"PEX WHITE RING	—

**Bend Supports**

25	EA	68528	A5250500 (A5150500) 1/2" PLASTIC BEND SUPPORT	—
50	EA	68529	A5150750 3/4" PLASTIC BEND SUPPORT	—

**Fasteners**

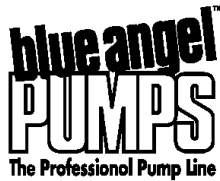
1	PKG	68496	F7050750 1/2"-3/4" TUBE TALON 100/PKG	—
1	PKG	68497	F7051000 1"PEX TUBE TALON 50/PKG	—
1	PKG	68526	F7051258 1/2"-5/8" PEX CLIP-PLASTIC 100/PKG	—

**Valves**

10	EA	68500	Q4805050 1/2"PEX X 1/2"COPPER BALL VALVE	—
10	EA	68501	Q4815050 1/2"PEX X 1/2"PEX BALL VALVE	—
10	EA	68503	Q4838809 1/2"PROPEX ICE MACH OUTLET BOX	—
10	EA	68524	LF4865038 1/2" PROPEX STRAIGHT STOP VALVE	—
10	EA	68525	Q4855038 1/2" PROPEX ANGLE STOP VALVE	—

**Miscellaneous**

25	EA	68504	F5600500 1/2"PEX CHROME FINISH SLEEVE	—
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## Submersible Sump Pumps



**BSP15**

### BSP15

- The BSP15 12V standby system takes over automatically to protect against flood damage even if the power fails.
- Tethered switch for automatic operation.
- Battery charger to keep battery properly charged. Alarm system to let homeowner know if the standby system has activated.
- Battery case to protect the battery.
- Battery reverse signal to ensure the battery is installed correctly.
- Works with most brands of pedestal and submersible sump pumps.
- Build-in check valve keeps water from returning to sump basin.
- Works off standard automotive or marine battery.



**BSPT33**

### BSPT33

- The model BSPT33, a 1/3 HP pump features a high-performance 1/3 HP motor and a mercury-free mechanical tethered switch that is adjustable for various on/off levels. This pump replaces most pedestal and submersible pumps.
- Thermoplastic base with tethered switch and top assembly will not rust or corrode.
- Heavy-duty four-pole motor is overload protected to prevent motor from overheating.
- High capacity 1-1/2" diameter discharge. (Can be reduced to 1-1/4" with part #66002-WYN, sold separately.)



**SSBCSC33**

### SSBCSC33

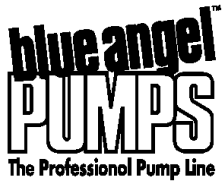
- Stainless steel motor housing and fasteners.
- Durable cast iron volute.
- Oil-filled, thermally protected motor prevents overheating.
- High capacity 1-1/2" NPT discharge.

### 57028-002 Check Valve Assembly

- Includes valve, 2 convertible fittings, 4 hose clamps, and adapter.

Model No.	Discharge Head (Ft.)					
	0	2	4	6	8	10
Gallons Per Hour						
BSP15	1750	1668	1512	1302	948	720
	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>		
BSPT33	2800	2270	1640	530	-	-
SSBCSC33	3480	2700	1680	120	-	-
SSBCS50	3900	3180	2100	600	-	-

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	95554	SSBCSC33 1/3 HP SUMP PUMP	—
1	EA	95602	BSP15/57609-BLA1 12V STANDBY SUMP PUMP	—
1	EA	95606	BSPT33 1/3 HP TETHER FLOAT SUMP PUMP	—
1	EA	95609	56171 SUMP PUMP INSTALLATION KIT	—
1	EA	95610	57028-002 CHECK VALVE ASSY	—



## Submersible Sewage Pumps



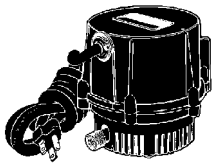
- Oil-filled, thermally protected motor prevents overheating
- 2" NPT discharge capable of handling 2" solids
- Lower ball bearing for quiet operation and long life

Model No.	Discharge Head (Ft.)		
	5	10	15
BCAPSE40	5400	3540	600
BCAPSE50	6780	5280	2400

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	95551	BCAPSE50 1/2 HP SEWAGE PUMP	—
1	EA	95552	BCAPSE40 4/10 HP SEWAGE PUMP	—



## Small Submersible Pumps



Designed to operate when the pump is totally submerged in fluid. Little Giant small submersibles are hermetically sealed and filled with a special oil that provides lifetime lubrication and rapid dissipation of heat.

Except where noted, all units feature a sump-type pick up, smooth intake, 1/4" MNPT, discharge, cast aluminum housing with protective epoxy coating, 6' power cord with 3-prong molded plug, and are impedance protected.

NK-1 and NK-2 are designed for use in mild acids, alkalies, hard water applications, and where copper/fluid are in contact.

Model No.	Gallons per Hour				Shut-Off	PSI
	1 Ft.	3 Ft.	5 Ft.	10 Ft.		
NK-1	210	180	150	—	10.2	4.4
NK-2	325	300	270	130	12.3	5.3

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	95543	NK-1 SUBMERSIBLE PUMP	—
6	EA	95544	NK-2 SUBMERSIBLE PUMP	—

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# ***Group 11 Oil Burner Parts and Accessories***

Group 11 Oil Burner Parts and Accessories

Suntec Pumps.....	11 - 1
Oil Burners.....	11 - 2
Oil Burner Supplies.....	11 - 3
Honeywell Oil Burner Controls.....	11 - 12



# A-7100 Series Pumps and Replacement Parts

## Pumps Replaces all "J" Series Pumps



A	2	V	A	71	16
A = Single-Stage B = Two-Stage	Speed 1 = 1725 rpm 2 = 3450 rpm	Strainer Capacity V = 3 gph Y = 7 gph T = 16 gph G = 25 gph	Rotation & Nozzle Location A = RH-RH B = RH-LH C = LH-LH D = LH - RH	Model Features *71 = 3 gph, diaphragm valve, lip seal, positive drive 79 = 7 gph, diaphragm valve, lip seal	ID Number (See chart below)

ID Number				
No.	Rot.	Nozzle Loc.	Mount Type	Speed
12	RH	RH	Flange	1725
13	RH	LH	Flange	1725
16	RH	RH	Flange	3450
17	RH	LH	Flange	3450
18	LH	LH	Flange	3450

\* The 71 models are designed to replace the 70 models having the same ID number.

### 1725 RPM, 2-Bolt, Flange, Single-Stage Pumps

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	77077	A1YA-7912 CW-R SUNTEC PUMP NEW	—

### 3450 RPM, 2 Bolt, Flange, 2-Stage Pumps

1	EA	77069	A2VA-7116 CW-R SUNTEC PUMP NEW	—
1	EA	77073	A2VD-7119 CCW-L SUNTEC PUMP NEW	—
1	EA	77078	A2YA-7916 CW-R SUNTEC PUMP NEW	—

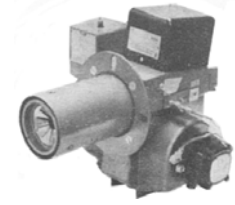
### Pump Replacement Parts

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
J & H Series Pumps	1	EA	77126	3779071 1/16 IN SUNTEC BYPASS PLUG	—
A Series Pumps	1	PKG	77168	3779801 SUNTEC GASKET 12/PKG	—



## Blue Angel HS Oil Burners

Burns No. 1 or 2 Heating Oil  
 Nozzle Range: .50 to 3.00 GHP  
 BTU Input: 70,000 to 300,000 BTU



### HS Oil Burners

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	61901	300-711C 6IN HS OIL BURNER	—
1	EA	61902	300-713C 9IN HS OIL BURNER	—

### Parts and Accessories

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
HS	1	SET	61907	21684 2/SET ELECTRODE ASSEMBLY	—
HS	1	EA	61908	100989-061 MODEL HS ELECTRODE ASSEMBLY	—
OAE, EH, and FH	1	EA	61962	12550 ELECTRODE STEM & WASHER	—
OAE, EH, and FH	1	EA	61963	23101-E 115/60 TRANSFORMER PKG	—
OAE, EH, and FH	1	EA	61966	20442 1/2 HP 3450 RPM MOTOR	—





## Oil Nozzle Adapters & Box



### Adapters

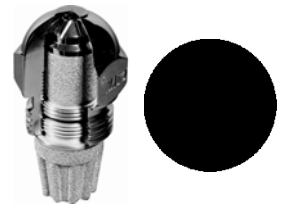
Length (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	2	EA	51458	1/4 IN SHORT ADAPTER	—
2	3	EA	51455	1/4 IN LONG ADAPTER	—
1	1	EA	51457	1/8 IN SHORT ADAPTER	—
1-3/8	5	EA	51460	1/8 IN STANDARD ADAPTER	—

### Nozzle Box

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	51031	96-NOZZLE BOX	—



## "B" Solid Cone Nozzles, Black Cap



For Armstrong furnaces. These nozzles are designed to give optimum combustion efficiency on high static pressure flame retention burners that specify a "B" pattern. Somewhat more fuel is concentrated towards the center of the spray.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-11	PC-2 12-23	PC-3 24-99	PC-4 100
12	EA	51390	.65-80 DEG B NOZZLE	—	—	—	—
12	EA	51391	.75-80 DEG B NOZZLE	—	—	—	—
12	EA	51392	.85-80 DEG B NOZZLE	—	—	—	—
12	EA	51393	1.00-80 DEG B NOZZLE	—	—	—	—



## "SS" Semi-Solid Cone Nozzles, Blue Cap



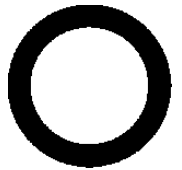
"SS" nozzles are suitable for most general applications where exact air pattern or spray pattern requirements can't be established. Droplet distribution is relatively even across spray cone in smaller flow rates, but becomes more hollow as flow rate increases. Semi-solid cones produce a finer oil break-up than a solid cone.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-11	PC-2 12-23	PC-3 24-99	PC-4 100
12	EA	51082	.65-60 DEG SS NOZZLE	—	—	—	—
12	EA	51083	.65-70 DEG SS NOZZLE	—	—	—	—
12	EA	51084	.65-80 DEG SS NOZZLE	—	—	—	—
12	EA	51086	.75-60 DEG SS NOZZLE	—	—	—	—
12	EA	51087	.75-70 DEG SS NOZZLE	—	—	—	—
12	EA	51088	.75-80 DEG SS NOZZLE	—	—	—	—
12	EA	51092	.85-70 DEG SS NOZZLE	—	—	—	—
12	EA	51093	.85-80 DEG SS NOZZLE	—	—	—	—
12	EA	51096	1.00-60 DEG SS NOZZLE	—	—	—	—
12	EA	51097	1.00-70 DEG SS NOZZLE	—	—	—	—
12	EA	51098	1.00-80 DEG SS NOZZLE	—	—	—	—
12	EA	51105	1.20-80 DEG SS NOZZLE	—	—	—	—
12	EA	51108	1.25-70 DEG SS NOZZLE	—	—	—	—
12	EA	51109	1.25-80 DEG SS NOZZLE	—	—	—	—
12	EA	51120	1.50-80 DEG SS NOZZLE	—	—	—	—
12	EA	51136	2.00-70 DEG SS NOZZLE	—	—	—	—
12	EA	51137	2.00-80 DEG SS NOZZLE	—	—	—	—
12	EA	51168	3.00-60 DEG SS NOZZLE	—	—	—	—
12	EA	51178	3.50-60 DEG SS NOZZLE	—	—	—	—
12	EA	51180	3.50-80 DEG SS NOZZLE	—	—	—	—
12	EA	51221	6.00-45 DEG SS NOZZLE	—	—	—	—

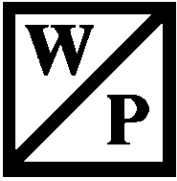


## "H" Hollow Cone Nozzles, Red Caps

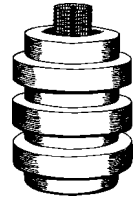
Produces very fine and uniform atomization with a sharp maintained spray pattern breaking right at the orifice. Has extremely hollow center.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-11	PC-2 12-23	PC-3 24-99	PC-4 100
12	EA	51264	.65-60 DEG HC NOZZLE	—	—	—	—
12	EA	51265	.65-70 DEG HC NOZZLE	—	—	—	—
12	EA	51266	.65-80 DEG HC NOZZLE	—	—	—	—
12	EA	51268	.75-60 DEG HC NOZZLE	—	—	—	—
12	EA	51269	.75-70 DEG HC NOZZLE	—	—	—	—
12	EA	51270	.75-80 DEG HC NOZZLE	—	—	—	—
12	EA	51271	.85-60 DEG HC NOZZLE	—	—	—	—
12	EA	51272	.85-70 DEG HC NOZZLE	—	—	—	—
12	EA	51273	.85-80 DEG HC NOZZLE	—	—	—	—
12	EA	51274	.85-90 DEG HC NOZZLE	—	—	—	—
12	EA	51276	.90-80 DEG HC NOZZLE	—	—	—	—
12	EA	51277	1.00-60 DEG HC NOZZLE	—	—	—	—
12	EA	51278	1.00-70 DEG HC NOZZLE	—	—	—	—
12	EA	51279	1.00-80 DEG HC NOZZLE	—	—	—	—
12	EA	51280	1.00-90 DEG HC NOZZLE	—	—	—	—
12	EA	51282	1.10-80 DEG HC NOZZLE	—	—	—	—
12	EA	51288	1.20-60 DEG HC NOZZLE	—	—	—	—
12	EA	51289	1.20-80 DEG HC NOZZLE	—	—	—	—
12	EA	51293	1.25-70 DEG HC NOZZLE	—	—	—	—
12	EA	51294	1.25-80 DEG HC NOZZLE	—	—	—	—
12	EA	51323	2.00-60 DEG HC NOZZLE	—	—	—	—
12	EA	51324	2.00-80 DEG HC NOZZLE	—	—	—	—
12	EA	51384	.60-90 DEG HC NOZZLE	—	—	—	—
5	EA	51561	.75-90 DEG HC NOZZLE	—	—	—	—



### Oil Cartridges



For Use with the Following	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 4 CTNS
Fulflo	12	EA	50521	P4FO-1B FELT OIL CARTRIDGE (FULFLO)	—	—	—
General	36	EA	50601	AO25 OIL CARTRIDGE (USE W/1A-25A)	—	—	—
General	12	EA	50603	AO30 OIL CARTRIDGE (GENERAL)	—	—	—
General	12	EA	50605	AO70 OIL CARTRIDGE (GEN)(USE W/2A-700A)	—	—	—

### GENERAL<sup>Aire</sup> Oil Filters



For Use with the Following	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN	PC-3 4 CTNS
General	12	EA	50600	1A-25B 3/8IN 10GPH FIRING RATE @ 10 MICRONS 12PST FUEL OIL FILTER	—	—	—

## Transformers and Mounting Plates



LAUV



LA4V



1092-F



85EY-2



10SAY



421BT

### LAUV Universal Replacement Ignition Transformer

- U.L. Listed
- 3 sets of fixed high voltage terminals
- Completely enclosed junction box with multiple knockouts
- Flexible mounting plate included
- Accessory package included

### LA4V Universal Replacement Transformer

- 120V 60 Hz Primary 23mA 240VA
- 240V 60 Hz Primary 23 mA 240VA (Special Order)
- 10,000 V Secondary

### 1092-F Heavy Duty Industrial Transformer

- 120 Vac 60 Hz Primary
- 6000V 20mA 165 VA Secondary

### 85EY-2 Heavy Duty Industrial Transformer

- 120 V 60 Hz
- 8500V Secondary
- 23MA 210VA

### 10SAY Electronic Oil Igniter Kit

- UL and CSA Recognized
- 6kV RMS, 240kVP Spark
- 35mA Output Current
- Secondary Midpoint Ground

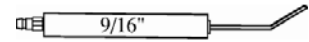
### 421BT

- 120 V 60 Hz
- 10,000 V secondary
- 23mA

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	75898	LAUV MULTI POSITION TRANSFORMER	—
1	EA	75904	LA4V 120V TRANSFORMER	—
1	EA	75896	85EY-2 TRANSFORMER	—
1	EA	75908	1092-F 120 VOLT TRANSFORMER	—
1	EA	75902	10-SAY-KIT IGNITER TOOL BOX	—
1	EA	75906	421BT-384 120V TRANSFORMER	—
1	EA	75907	421BT-636 MULTI POSITION TRANSFORMER	—
1	EA	61427	51771U IGNITER ASSEMBLY	—
1	EA	75895	10SAY-01 IGNITOR ONLY	—
1	EA	75899	MP-SAY-03 WAYNE M BASE PLATE ONLY	—
1	EA	75900	MP-SAY-04 BECKETT A BASE PLATE ONLY	—
1	EA	75901	MP-SAY-30 WAYNE E BASE PLATE ONLY	—
1	EA	75905	MP-SAY-05 BECKETT S BASE PLATE ONLY	—



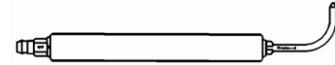
## Standard Electrodes



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PR	51871	2M4 4" X 9/16 DIA ELECTRODE	—
1	PR	51873	2M5 5" X 9/16 DIA ELECTRODE	—



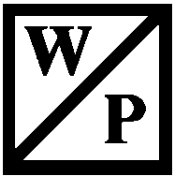
## Electrodes



Name	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
Nu-Way	1	PR	52020	E5-418 4" X 1/2 DIA NU-WAY ELECTRODE	—

## Electrode Cross Reference Chart Westwood to Steinen and Dielectric

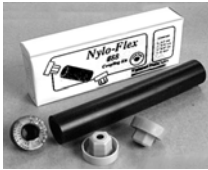
Westwood		Steinen Mfg.	Dielectric Mfg.
Bercor No.	Model		
51871	2M4 Electrode	E 30 4 Electrode	2B4 Electrode
51873	2M5 Electrode	E 30 5 Electrode	2B5 Electrode
52020	418 Electrode	SE 1940 Electrode	ADP5003 Electrode



## Ignition Kit, Cable, Electrode Gage



GTO-15



Coupling



Electrode Gage

### 595 Ignition Roll Up Kit Contains:

#### Ignitors

- 2 - 3M4 (9/16 x 4")
- 2 - 3M5 (9/16 x 5")
- 2 - 3M6 (9/16 x 6")
- 2 - 3F5 (9/16 x 5")
- 2 - 483 Quiet Heat

#### Insulators

- 2 - 1M4 1/4 (7/16 x 4-1/4")
- 2 - 4M4 (1/2 x 4")
- 2 - 2M4 (9/16 x 4")
- 2 - 2M5 (9/16 x 5")
- 2 - 3M4 (9/16 x 4")

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	50871	S85-500 #88 CARDED COUPLING	—
1	EA	51037	IGNITOR GAGE ELECTRODE TIP SETTING GAGE	—
100	FT	52211	E60-100 GTO-15 ELECTRODE CABLE	—

**DIVERSITECH** Oil Burner Service Chemicals



HP-MS-03

HP-SK-16

**HP-SK-16 Soot Kill**

Ready-to-use, non-flammable, non-corrosive catalytic soot remover cleans the combustion chamber. Catalytic cleaning action reduces time consuming vacuuming of the burner chamber. Residual action slows soot accumulation.

**HP-SKDP-20 Spill Kill Powder**

A one-step liquid absorbent and deodorant with a convenient shaker top. Multi-functional Spill Kill absorbs and deodorizes fuel oil and other liquid spills. The unique granular formula soaks up liquids and entraps odors much faster than dusty powders. The quick-absorbing action minimizes the slip hazards associated with liquid spills.



HP-SKDP-20

HP-SKDS-16

**HP-SKDS-16 Spill Kill Spray**

Neutralizes noxious fuel oil odors while imparting a pleasant residual fragrance. The safe, non-flammable formula lends itself to other deodorizing applications where noxious odors are a problem.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
36	EA	55054	HP-MS-03 MAGIC SOOT STICK	—	—
12	EA	55053	HP-SK-16 SOOT KILL REMOVER	—	—
12	EA	55051	HP-SKDP-20 SPILL KILL POWDER	—	—
12	EA	55052	HP-SKDS-16 SPILL KILL SPRAY	—	—

**DIVERSITECH** High Temperature Furnace Cement



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	55056	HP-HS-16 HIGH TEMP FURNACE CEMENT	—

**RECTORSEAL Oil Burner Service Chemicals**



**Odorgon**

**Odorgon™ Powder**

- Kills odors and absorbs oil from concrete and other floors.
- Handy for cleaning up after spills and oil leaks.
- Leaves a pleasant odor after absorbing spills.
- Sifter top for controlled economical usage and clean storage.
- Non-explosive, non-flammable and safe.

**Odorgon™ Spray**

- Kills oil and other industrial odors.
- Covers vertical surfaces and corners.
- A pleasant mild fragrance that doesn't linger.
- Non-flammable



**Sootmaster**

**Sootmaster™ Powder**

- Removes soot from oil and gas-fired burners.
- Works both by catalysis and supplying extra oxygen.
- Applied by scattering or dusting surface with a sprayer.
- Contains no lead.

**Sootomagic™ The Original Soot Stick**

- Destroys soot quickly by catalytic low temperature ignition.
- Residual soot removal coating works even after stick is consumed.
- Fits through all combustion chamber openings.
- Non-corrosive, non-explosive and no lead.



**Sootomagic**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	55036	68512 1LB ODORGON POWDER	—	—
12	EA	55037	68516 14OZ ODORGON SPRAY	—	—
12	EA	55038	68322 1LB SOOTMASTER POWDER	—	—
48	EA	55039	68332 1/4LB STICK SOOTMAGIC	—	—



## RECTORSEAL Pyro Seal™ Furnace Cement



- Smooth, creamy, easy-spreading furnace and retort cement that sticks where applied.
- For high temperature sealing and bonding.
- Shrink-proof, crack-proof.
- Use in combustion chambers and for sealing doors and flue pipes.
- Contains no asbestos or OSHA restricted fibers.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	55040	68612 1.5LB PYROSEAL	—



## Furnace Cement

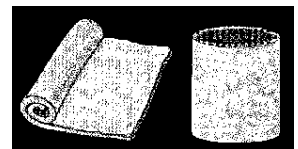
Smokeless, odorless, acidproof, and fireproof.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
6	EA	52357	01334 QUART BLK FCE CEMENT	—	—
6	EA	52358	01354 QUART GRAY FCE CEMENT	—	—



## Wet Combustion Chamber Liners



For lining burned-out combustion chambers of domestic furnaces. No clips, cement, bands or sealers are necessary. Fast, easy installation; normally takes about 30 minutes. This chamber liner heats up red-hot in seconds, reduces carbon build-up and gives noticeably improved efficiency. The sound-absorbing qualities of refractory-fiber permits quieter burner operation. No heavy chamber to remove; liner can fit inside old chamber.

Westwood preshaped liners are seamless and come complete with a bottom. They are pliable, yet able to stand alone in a vertical chamber without need for support.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	53842	#9 9" DIA 12" HIGH CHAMBER LINER	—
1	EA	53846	#3 16X48 AND 16X16 CHAMBER FLAT SHEET KIT	—

## Honeywell C554A Cadmium Sulfide Flame Detector



Photoconductive flame sensing device for sequencing oil burner systems. On flame failure, the light sensitive cadmium sulfide cell, in conjunction with flame sensing circuitry, causes the Protectorelay control to shut down the main oil burner. Glass-to-metal hermetic seal in plug-in cell prevents deterioration by humidity, soot, or oil fumes. NEC class 1 leadwires. Use With: Protectorelay oil and primary controls such as R4166, R4184, R8182, R8184, R8185, and R8404.

**Maximum Ambient Temperature:** 140° F at cell.  
**Lead Length:** 60 in.  
**Construction:** 2-piece model; cell plugs in.  
**Bracket:** mounting brackets included.  
 U.L. Listed.  
**Replacement Parts:**  
 120320 Replacement Cad Cell. 7.5 mA min. sensitivity at 2 ft. candles.  
 130367 Replacement Cad Cell. 12.mA min. sensitivity at 2 ft. candles.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
50	EA	70197	C554A1463/U CAD CELL	—	—

## Honeywell R8184G Protectorelay Oil Burner Controls



R8184G provides automatic, nonrecycling control of an intermittent ignition oil burner system. Requires a C554A Cadmium Sulfide Flame Detector and a 24V thermostat. Controls oil burner, oil valve, and the ignition transformer in response to a call for heat. Solid state flame sensing circuit. External button to manually reset safety switch after safety shutdown. Mounts on standard 4" x 4" junction box.

### Electrical Ratings (Amperes)

	120 Vac	240 Vac
Full Load	7.4	3.7
Locked Rotor	44.4	22.2

**Ambient Temperature Range:** -40 to 130° F.  
**Approximate Dimensions:** 4-3/8" H x 4-1/8" W x 2-1/2" D.  
**Voltage and Frequency:** 120V, 60 Hz.  
 U.L. Component Recognized.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
20	EA	72506	R8184G4009/U OIL PROTECTORELAY	—

## Honeywell RA116A and RA117A Protectorelay Controls



Stack-mounted, oil burner primary controls that cycle burner on and shutdown the burner on flame loss or system malfunction. Senses temperature change of flue gases with Pyrostat flame detector. Manual reset of safety switch required after ignition failure completely shuts off main burner. Includes a manual trip safety switch to assure burner shutdown during servicing. Flange included for mounting on curved or flat surfaces.

**Voltage and Frequency:** 120 V, 60 Hz.

**Safety Switch Timing:** 70 second, approximately.

### Electrical Ratings

Motor Load (A)	110V, 50 Hz.	220V, 50 Hz.
	120V, 60 Hz.	240V, 60 Hz.
Full Load	7.4	3.7
Locked Rotor	44.4	22.2

**Thermostat Anticipator Setting (24 V models):** 0.4A.

**Adjustable Element Insertion Length:** 3-1/2" to 5-1/2".

**Approximate Dimensions:** 5-7/8" H x 5-3/16" W x 3-3/16" D.

**Maximum Ambient Temperature:** 104° F.

U.L. Listed.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	EA	74955	RA116A 1055 PROTECTORELAY	—	—
10	EA	74956	RA117A1047/U PROTECTORELAY	—	—

## Honeywell V4046A, B Magnetic Valves



For On-Off control of oil flow to domestic oil burner equipment. Power interruption will close the valve immediately. Mounts directly in pipe line or on support bracket. V4046A 1074 operates with integral thermistor to delay valve opening 3 to 8 seconds to allow burner fan to reach operating speed before discharging oil. V4046B 1007 provides positive control of oil flow and opens immediately when energized.

**Valve Pattern:** Straight-through.

**Power Consumption:** 8 watt maximum.

**Approximate Dimensions:**

2-3/4" H x 1-5/8" W x 2-5/8" D.

**Wiring Connections:** Two 36" lead-wires.

**Ambient Temperature Range:** 32 to 115° F.

**Maximum Fluid Temperature:** 125° F.

**Oil Weight:** No heavier than No. 2.

U.L. Listed.

Factory Mutual Approved.

Model No.	Oil Flow Capacity		Voltage (60 Hz.)	Coil Ratings		Operation Pressure		Orifice Dia. (In.)
	gph	l/s		120V	240v	PSI	kPa	
V4046A 1074	5 to 35	0.005 to 0.04	120	13.8	—	150-300	1034-2068	0.078
V4046B 1007	5 to 35	0.005 to 0.04	120	13.8	13.7	150	1034	0.078

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
20	EA	73581	V4046A 1074 OIL VALVE 1/8 NPT	—
20	EA	73583	V4046B 1007 OIL VALVE 1/8 NPT	—



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## **Group 12 Tools**

### Group 12 Tools

Milwaukee M12 Series.....	12 - 1
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## M12 Series Cordless Lithium-Ion Tools

The M12 series offers tool belt portability without sacrificing power and speed. Milwaukee's M12 series is the most powerful subcompact system available. See the Table of Contents at the beginning of Group 12 to find the page number these items can be found.

See the Driver Drills section for the following M12 tools:



2401-22  
Sub-Compact Driver



2410-22  
Driver Drill Kit



2420-22  
Hex Impact Driver Kit



2432-22  
Propex Expansion Tool Kit



2450-22  
Impact Kit



2470-21

See the Tubing Tools section for the following M12 tool:



2471-21  
Tubing Cutter Kit

See the Miscellaneous Tools section for the M12 tool holster:



2335-20  
Tool Holster

See the Tools/Electrical Section for the following M12 Tools:



2590-20  
Radio



49-24-0145  
Work Light



## 0300 1/2" Magnum Drill

- 0-850 RPM
- 8 amp motor
- Heavy duty keyed chuck
- 8 ft. 3-wire rubber cord



Capacity In Steel	Volts AC	Amps	No Load RPM	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1/2	120	8.0	0-2500	1	EA	80042	0300-20 1/2" DRILL W/KEYED CHUCK	—



## M12 2401 Sub-Compact Driver

- Single handed bit change
- 100 in lbs. of torque
- Fuel gauge
- LED light

**Includes:** 12V lithium-ion driver, (2) 12V li-ion batteries, 30 minute charger, soft case, #2 phillips bit and slotted bit.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80542	2401-22 12V SUB-COMPACT DRIVER	—



## M12 2410 Drill/Driver Kit

- 2-Speed metal gear box
- 250 in./lbs. of torque
- 3/8" single sleeve ratcheting metal chuck
- Lightweight and compact
- Integrated LED and fuel gauge



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80560	2410-22 3/8" M12 DRILL DRIVER KIT	—



## 2601 Compact Drill/Driver

- 400 in./lbs. of torque
- 2-speed metal gear box
- On-tool bit storage
- Built-in work light
- 22 clutch settings

**Includes:** 18V lithium-ion driver/drill, (2) 18V li-ion batteries, 30 minute charger and impact resistant case.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80544	2601-22 18V COMPACT DRILL / DRIVER	—



## Right Angle Drill Kits and Hole-Hawgs



### 1680-21 Reversible Super-Hawg

13.0 Amp, Low Side: 450, High Side: 1750, Rotating handle, clutch, carrying case included.



### 2415-21 Cordless Drill/Driver Kit

The 2415-21 has a head size of only 3.75" and delivers 100 in.-lbs. of torque in a compact light weight design. It has a spindle lock chuck and is the most versatile right angle drill/driver in the industry. The 2415-21 has a built in electronic clutch, fuel gauge, variable speed control, and overload protection.



### 3107-6 RA Drill Kit

Includes Chuck Key and Rubber Flex key holder 48-86-2871, Right Angle Drive 49-96-4060 9/16" open end wrench, 49-96-0080 3/16" socket wrench chuck remover bar, side handle steel carrying case 48-55-0801, and 8' 3-wire Quick-Lok cord set 48-76-4008.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80227	1680-21 REV SUPER-HAWG DRILL KIT	—
1	EA	81021	2415-21 12V 3/8IN CORDLESS RA DRILL/DRIVER KIT	—
1	EA	80104	3107-6 1/2" REV VAR SPEED RA DRILL KIT	—



## M12 1/4" Hex Impact Driver



- 12V Lithium-Ion battery offers longer run-time and lighter weight
- 0-2,000 RPM variable speed trigger
- Battery fuel gauge displays remaining run-time
- Built-in LED light illuminates work surface

**Includes:** 12V lithium-ion driver, (2) 12V li-ion batteries, 30 minute charger and carry case

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80588	2450-22 M12 IMPACT KIT	—





## Batteries and Chargers



48-11-1024



48-11-1830



48-11-2401



48-59-0260



48-59-2818

### Batteries

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80284	48-11-1024 14.4V 2.4A PWR-PLUS BATTERY	—
1	EA	80982	48-11-1815 18V COMPACT LITHIUM ION BATTERY	—
1	EA	80495	48-11-1830 18V LI-ION BATTERY	—
1	EA	80286	48-11-2230 18V 2.4A PWR-PLUS BATTERY	—
1	EA	80586	48-11-2401 12V SUBCOMPACT BATTERY	—

### Chargers

1	EA	81024	2510-20 M12 AC/DC WALL & VEHICLE CHARGER	—
1	EA	81117	2710-20 M18 AC/DC WALL AND VEHICLE CHARGER	—
1	EA	80245	48-59-0255 12V, 14.4V, 18V PWR-PLUS UNIVERSAL CHARGER	—
1	EA	80304	48-59-0260 MULTI-BAY CHARGER	—
1	EA	80981	48-59-1801 18V LITHIUM ION BATTERY CHARGER	—
1	EA	80979	48-59-2401 12V LITHIUM ION BATTERY CHARGER	—
1	EA	80494	48-59-2818 28V V18 CHARGER	—



## Quik-Lok Cord Set

- 8 ft. 3-wire grounded
- QUIK-LOK® feature allows for fast replacement of a damaged cord
- Premium grade High-Flex wire
- 5-15P NEMA type plug



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80181	48-76-4008 QUIK-LOK CORD SET	—



## Off-Set Screwdriver Power Head For 6547-22 Cordless Screwdriver



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80109	48-32-2100 OFF-SET SCREWDRIVER PWR HEAD	—



## Selfeed Bits

Recommended For The Following Drill Models	For Std. Pipe Sizes (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1/2 and Larger Drills	1/2, 3/4	1	EA	80144	48-25-1121/1122 1-1/8" SELFEEED BIT	—
1/2 D-Handle Drills and Larger Drills	1, 1-1/2	1	EA	80146	48-25-1371/1372 1-3/8" SELFEEED BIT	—
1/2 D-Handle Drills and Larger Drills	1, 1-1/2	1	EA	80148	48-25-1751/1752 1-3/4" SELFEEED BIT	—
1/2 D-Handle Drills and Larger Drills	1, 1-1/2	1	EA	80149	48-25-2001/2002 2" SELFEEED BIT	—
1/2 D-Handle Drills and Larger Drills	1, 1-1/2	1	EA	80150	48-25-2121/2122 2-1/8" SELFEEED BIT	—
Same as above except 1250-1	2	1	EA	80161	48-25-2561/2562 2-9/16" SELFEEED BIT	—

**Milwaukee** Bit Kits



48-32-0221



48-89-1105



48-89-8990



48-32-1505

**48-32-0221 21-Piece Screw Driving Set**

- Premium grade S2 tool steel
- Heavy Duty Storage

**48-32-1505 40-Piece Screw Driving Set**

- Premium grade S2 tool steel
- Magnetic nut drivers
- Torx® bits

**48-89-1105 20-Piece Titanium Drill Bit Set**

Assortment of Milwaukee Titanium bits for drilling. Sizes include 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 11/64", 3/16", 13/64", 7/32", 1/4", 5/16", 3/8" and 1/2". Also comes with the carrying case.

**48-89-8990 3-Piece Step Drill Bit Set**

Set includes 48-89-8955 6 Hole Bit, 48-89-9100 13 Hole Bit, and 48-89-9105 9 Hole Bit.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	EA	80955	48-32-0221 21-PIECE SCREW DRIVING SET	—
6	EA	80954	48-32-1505 40-PIECE SCREW DRIVING SET	—
1	EA	80736	48-89-1105 TITANIUM DRILL BIT SET	—
1	EA	80991	48-89-8990 3-PC STEP DRILL SET	—

**Milwaukee** Flat Boring Bits  
1/4" to 1-1/2" Diameters



**49-22-0071 6-Piece Flat Boring Bit Kit**

6 popular size boring bits in heavy protective plastic. Assortment includes: 3/8", 1/2", 5/8", 3/4", 7/8", and 1" sizes in pockets for orderly storage and easy size selection.

**49-22-0175 8-Piece QUIK-LOK Flat Boring Bit Kit**

Double Wing Spurs for easy hole formation, patented cutting edge for fast, easy wood boring, and 1/4 in. Quick-Change Hex Shank for use in all Universal QUIK-LOK™ Extensions.

**49-22-0185 6-Piece QUIK-LOK Stubby Boring Kit**

Extreme stubby size flat boring bit, "New Look" soft case, and sharp cutting edge.

Dia. (In.)	Shank Diameter (In.)	Overall Length (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
3/8	1/4	16	6	EA	80986	48-27-0170 3/8 FLAT BORING BIT	—
1/2	1/4	16	6	EA	80987	48-27-0175 1/2 FLAT BORING BIT	—
5/8	1/4	16	6	EA	80515	48-27-0180 5/8" FLAT BORING BIT	—
3/4	1/4	16	6	EA	80559	48-27-0185 3/4" FLAT BORING BIT	—
7/8	1/4	16	6	EA	80989	48-27-0190 7/8 FLAT BORING BIT	—
1	1/4	16	6	EA	80990	48-27-0195 1 FLAT BORING BIT	—
			1	EA	80265	49-22-0071 6 PC FLAT BORING BIT KIT	—
			6	EA	80953	49-22-0175 8-PIECE QUIK-LOK FLAT BORING BIT SET	—
			5	EA	80952	49-22-0185 6-PIECE QUIK-LOK STUBBY FLAT BORING BIT SET	—



## Shockwave™ Nutdrivers and Bits



49-66-4561



48-32-4401



48-89-4431

Milwaukee® Shockwave Impact Duty™ Nutdrivers and bits are engineered for extreme durability and up to 10x longer life than standard bits. Made from proprietary steel and heat treated to control hardness, the Shockwave Impact Duty™ nutdrivers and bits feature an innovatively designed geometric shock absorption zone to extend life.

The forged tip allows for a secure grip and maximum contact eliminating stripping or slipping. The Shockwave™ impact duty accessory line is not only ideal for heavy duty impact applications, but delivers a full system solution for all drilling and fastening needs.

### 49-66-4561/49-66-4562

Includes: (1) 1/4" x 1-7/8", (1) 5/16" x 1-7/8", and (1) 3/8" x 1-7/8" Shockwave™ Magnetic Nut Driver; 49-66-4562 also includes (1) 7/16" x 1-7/8" Shockwave™ Magnetic Nut Driver

### 48-32-4401

29 Piece Set Includes: Phillips bits, square bits, Torx® bits, (1) magnetic bit holder, and (1) case with bulk storage container

### 48-89-4431

Includes: (1) 1/16", (1) 3/32", (1) 1/8", (1) 5/32", (1) 3/16", (1), 7/32", and (1) 1/4" Shockwave™ Impact Hex Drill Bits

### Nutdrivers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
3	EA	81027	49-66-4502 1/4IN X 1-7/8IN SHOCKWAVE MAGNETIC NUT DRIVER	—
3	EA	81028	49-66-4503 5/16IN X 1-7/8IN SHOCKWAVE MAGNETIC NUT DRIVER	—
3	EA	81029	49-66-4505 3/8IN X 1-7/8IN SHOCKWAVE MAGNETIC NUT DRIVER	—
3	EA	81035	49-66-4506 7/16IN X 1-7/8IN SHOCKWAVE MAGNETIC NUT DRIVER	—
3	EA	81036	49-66-4561 1-7/8IN SHOCKWAVE MAGNETIC NUT DRIVER SET 3PC	—
3	EA	81037	49-66-4562 1-7/8 SHOCKWAVE MAGNETIC NUT DRIVER SET 4PC	—
6	EA	81038	49-66-4522 1/4IN X 1-7/8IN SHOCKWAVE MAG NUT DRIVER 3PK	—
3	EA	81039	49-66-4523 5/16IN X 1-7/8IN SHOCKWAVE MAG NUT DRIVER 3PK	—
3	EA	81041	49-66-4525 3/8IN X 1-7/8IN SHOCKWAVE MAG NUT DRIVER 3PK	—
3	EA	81042	49-66-4526 7/16IN X 1-7/8IN SHOCKWAVE MAG NUT DRIVER 3PK	—
3	EA	81043	49-66-4532 1/4IN X 2-9/16IN SHOCKWAVE MAGNETIC NUT DRIVER	—
3	EA	81044	49-66-4533 5/16IN X 2-9/16IN SHOCKWAVE MAGNETIC NUT DRIVER	—
3	EA	81046	49-66-4536 7/16IN X 2-9/16IN SHOCKWAVE MAGNETIC NUT DRIVER	—
3	EA	81045	49-66-4535 3/8IN X 2-9/16IN SHOCKWAVE MAGNETIC NUT DRIVER	—

### Bits

3	EA	81026	48-32-4503 3IN SHOCKWAVE MAGNETIC BIT TIP HOLDER	—
3	EA	81047	48-32-4411 SHOCKWAVE #1 PHILLIPS 2PK	—
3	EA	81048	48-32-4412 SHOCKWAVE #2 PHILLIPS 2PK	—
3	EA	81049	48-32-4601 SHOCKWAVE #2 PHILLIPS 5PK	—
3	EA	81050	48-32-4413 SHOCKWAVE #3 PHILLIPS 3PK	—
3	EA	81051	48-32-4444 SHOCKWAVE #2 PHILLIPS REDUCED DIAMETER	—
3	EA	81052	48-32-4462 SHOCKWAVE #2 PHILLIPS 2IN POWER BIT	—
3	EA	81053	48-32-4602 SHOCKWAVE #2 PHILLIPS 2IN POWER BIT 5PK	—
3	EA	81054	48-32-4463 SHOCKWAVE #3 PHILLIPS 2IN POWER BIT	—
3	EA	81055	48-32-4562 SHOCKWAVE #2 PHILLIPS 3-1/2IN POWER BIT	—
3	EA	81056	48-32-4421 SHOCKWAVE #1 SQUARE RECESS 2PK	—
3	EA	81057	48-32-4422 SHOCKWAVE #2 SQUARE RECESS 2PK	—
3	EA	81058	48-32-4423 SHOCKWAVE #3 SQUARE RECESS 2PK	—
3	EA	81059	48-32-4605 SHOCKWAVE #2 SQUARE RECESS 5PK	—
3	EA	81060	48-32-4471 SHOCKWAVE #1 SQUARE RECESS 2IN POWER BIT	—
3	EA	81061	48-32-4472 SHOCKWAVE #2 SQUARE RECESS 2IN POWER BIT	—
3	EA	81062	48-32-4606 SHOCKWAVE #2 SQUARE RECESS 2IN POWER BIT 5PK	—
3	EA	81063	48-32-4473 SHOCKWAVE #3 SQUARE RECESS 2IN POWER BIT	—
3	EA	81064	48-32-4572 SHOCKWAVE #2 SQUARE RECESS 3-1/2 POWER BIT	—
3	EA	81065	48-32-4483 SHOCKWAVE T15 TORX 2IN POWER BIT	—
3	EA	81066	48-32-4484 SHOCKWAVE T20 TORX 2IN POWER BIT	—
3	EA	81067	48-32-4485 SHOCKWAVE T25 TORX 2IN POWER BIT	—
3	EA	81068	48-32-4487 SHOCKWAVE T30 TORX 2IN POWER BIT	—
5	EA	81069	48-32-4401 SHOCKWAVE DRIVER BIT SET 29PC	—
3	EA	81070	48-89-4431 SHOCKWAVE HEX DRILL BIT SET 7PC	—



## Rotary Hammer Accessories For Model 5321-22



2-Cutter, One Piece Spline Shank Bit



Spline to SDS Adapter



Thin Wall Core Bit Assembly Includes: Core bit, Center Pin, Guide Plate, Adapter shown not included.

### Two-Piece Thin Wall Core Bit

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80945	48-20-5035 2" CORE BIT	—
1	EA	80946	48-20-5040 2-1/2" CORE BIT	—
1	EA	80947	48-20-5045 3" CORE BIT	—
1	EA	80948	48-20-5050 3-1/2" CORE BIT	—
1	EA	80949	48-20-5055 4" CORE BIT	—
1	EA	80950	48-20-5060 5" CORE BIT	—

### Accessories

For Use with the Following	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1-3/4 to 6 In. Core Bits	1	EA	80941	48-03-3540 12" THIN WALL CORE BIT ADAPTER	—
Adapter No. 48-03-3540	1	EA	80943	48-95-6075 7 1/2" LONG EXTENSION	—



## Hammer Bit



Percussion carbide-tip bits for drilling concrete and masonry. These bits are especially made with hex shanks for use with hammer-drills. Alloy steel shanks and bodies for durability and long life. Highest quality carbide tips brazed to steel bodies resist dulling, stay sharp longer and can be resharpened often. Wide spiral with shallow oval flutes removes dust fast to assure maximum drilling efficiency.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80496	48-20-8805 3/16X4" HAMMER BIT	—



## Hex Extension Shanks



For Hole Saws, Selffeed Bits and Auger Bits (1" diameter and larger) with 7/16" Hex Shank.

- Length: 12"
- Replacement Set Screw: 06-83-2711
- Replacement Socket Wrench: 49-96-0060

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80393	48-28-4006 12" EXTENSION ASSEMBLY	—



## Big Hawg® Hole Cutters

Big Hawg hole cutters are specifically designed for drilling large holes in rough wood applications. Cuts up to 600 holes in wood without needing to be re-sharpened.

### Big Hawg Hole Saws

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81005	49-56-9010 2-9/16 BIG HAWG HOLE SAW	—
1	EA	81006	49-56-9020 3 BIG HAWG HOLE SAW	—
1	EA	81015	49-56-9030 3-5/8 BIG HAWG HOLE SAW	—
1	EA	80977	49-56-9045 4-1/4" BIG HAWG HOLE SAW	—
1	EA	80976	49-56-9050 4-5/8" BIG HAWG HOLE SAW	—
1	EA	81016	49-56-9065 6-1/4 BIG HAWG HOLE SAW	—
1	EA	80558	49-56-9075 7-PC BIG HAWG HOLE SAW KIT	—

### Big Hawg Accessories

1	EA	81017	49-56-9105 BIG HAWG ARBOR	—
1	EA	81018	48-27-1401 BIG HAWG PILOT BIT	—



## Ice Hardened™ Hole Saws



Milwaukee's Ice Hardened products are harder throughout than products manufactured by other processes, resulting in a 50% longer life.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80959	49-56-0052 1-1/8" ICE HARDENED HOLE SAW	—
1	EA	80960	49-56-0102 1-3/4" ICE HARDENED HOLE SAW	—
1	EA	80961	49-56-0117 2" ICE HARDENED HOLE SAW	—
1	EA	80962	49-56-0132 2-1/4" ICE HARDENED HOLE SAW	—
1	EA	80963	49-56-0147 2-1/2" ICE HARDENED HOLE SAW	—
1	EA	80964	49-56-0158 2-5/8" ICE HARDENED HOLE SAW	—
1	EA	80965	49-56-0163 2-3/4" ICE HARDENED HOLE SAW	—
1	EA	80966	49-56-0173 3" ICE HARDENED HOLE SAW	—
1	EA	80967	49-56-0193 3-1/2" ICE HARDENED HOLE SAW	—
1	EA	80968	49-56-0197 3-5/8" ICE HARDENED HOLE SAW	—
1	EA	80969	49-56-0203 3-3/4" ICE HARDENED HOLE SAW	—
1	EA	80970	49-56-0213 4" ICE HARDENED HOLE SAW	—
1	EA	80971	49-56-0217 4-1/8" ICE HARDENED HOLE SAW	—
1	EA	80972	49-56-0223 4-1/4" ICE HARDENED HOLE SAW	—
1	EA	80973	49-56-0233 4-1/2" ICE HARDENED HOLE SAW	—
1	EA	80974	49-56-0237 4-3/4" ICE HARDENED HOLE SAW	—
1	EA	80975	49-56-0253 6" ICE HARDENED HOLE SAW	—
1	EA	80993	49-56-0012 5/8 ICE HARDENED HOLE SAW	—
1	EA	80995	49-56-0032 7/8 ICE HARDENED HOLE SAW	—
1	EA	80996	49-56-0043 1 ICE HARDENED HOLE SAW	—
1	EA	81001	49-56-0072 1-3/8 ICE HARDENED HOLE SAW	—
1	EA	81002	49-56-0082 1-1/2 ICE HARDENED HOLE SAW	—
1	EA	81004	49-56-0243 5 ICE HARDENED HOLE SAW	—



## Hole Saw Kits



### 49-22-4145 10 Piece Plumbers Ice Hardened Hole Saw Kit

Kit Contains:

Hole Saws: 3/4", 7/8", 1-1/8", 1-1/2", 1-3/4", and 2-1/4".

Arbors: 49-56-7010 and 49-56-9100

Drill Bits: 49-56-8010

Adapter: 49-56-6560

Spacer: 49-67-0120

Case features extra space for additional hole saws.



### 49-22-4185 28 Piece All Purpose Professional Ice Hardened Hole Saw Kit

Kit Contains:

Hole Saws: 3/4", 7/8", 1-1/8", 1-1/4", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/8", 2-1/4", 2-1/2", 2-5/8", 3", 3-1/4", 3-3/8", 3-5/8", 3-3/4", 4-1/8", 4-1/4", 4-1/2", and 4-3/4".

Arbors: 49-56-7000, 49-56-7010, and 49-56-9100

Drill Bits: 49-56-8010

Case features extra space for additional hole saws.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80583	49-22-4145 10-PC MASTER PLUMBIER HOLE SAW KIT	—
1	EA	80584	49-22-4185 29-PC ALL PURPOSE HOLE SAW KIT	—



## Hole Saw Arbors and Pilot Drills



### 49-56-6950 1/4" Round Shank

Drill chucks onto pilot drill. For small hole saws in light weight materials and wood.

### 49-56-7000 7/16" Hex Shank

### 49-56-7010 3/8" Hex Shank

Hex shank prevents slipping in chuck. For use with small hole saws in 1/2" and larger drills in medium to heavy weight materials.

### 49-56-7055 Quick Change 7/16" Hex Shank

### 49-56-7140 Economical 7/16" Hex Shank

Hex shank prevents slipping in chuck. Pin drive construction permits fast interchanging of hole saws without removing arbor from chuck.

### 1/4" High Speed Pilot Drills for

### General Cutting of Wood and Metal

**49-56-8000:** For use with Hole Saw Arbors 49-56-6950, 7000, 7055, 7130, and 7140.

**49-56-8003:** For use with Hole Saw Arbors 49-56-6960 and 6970.

**49-56-8010:** For use with Hole Saw Arbors 49-56-7010 and 7150.

### Hole Saw Arbors

Thread Size (In.)	Drill Size (In.)	For Hole Saw Sizes (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1/2-20	1/4	9/16 to 1-3/16	1	EA	80427	49-56-6950 1/4" ARBOR	—
1/2-20	1/4	9/16 to 1-3/16	1	EA	80430	49-56-7000 7/16" ARBOR	—
5/8-18	1/4	1-1/4 and Larger	1	EA	80431	49-56-7055 7/16" ARBOR	—
1/2-20	1/4	9/16 to 1-3/16	1	EA	80462	49-56-7010 3/8" ARBOR	—
5/8-18	1/4	1-1/4 and Larger	1	EA	80465	49-56-7140/7240 7/16" ARBOR	—

### Pilot Drills

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80437	49-56-8000 PILOT DRILL	—
1	EA	80438	49-56-8003 PILOT DRILL	—
1	EA	80463	49-56-8010 PILOT DRILL	—



## M12 Cordless PVC Shear



Cutting faster, cleaner and closer than traditional methods, the new M12™ Cordless PVC Shear utilizes a super sharp stainless steel blade for burr-free cuts, slices through 2" PVC in as fast as 3seconds, and offers an offset blade to cut PVC mounted to a stud or close to a wall.

Powered by the Milwaukee® M12™ Lithium-Ion battery, the new PVC shear is able to cut over 200 times on a single charge

- Powerful mechanism: cuts up to 2" schedule 40 PVC in 3 seconds
- Ultra sharp blade with pierce point: no burrs or shavings to remove
- Offset blade: cuts PVC/PEX in-wall, in-ground, or close to wall
- Quick return blade: increased productivity during repetitive cuts
- All metal planetary drive: delivers over 200 cuts per charge
- Stainless steel blade and aluminum jaw: impact, water and rust resistant
- Variable speed trigger: controlled cut in warm or cold weather
- On board fuel gauge: displays remaining run-time

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81020	2470-21 M12 CORDLESS PVC SHEAR	—



## 6852 18 Gauge Shear



- 6.8 amp Milwaukee motor, trigger speed control; 0-2,500 rpm spindle speed
- 360° swivel head
- Ergonomic tactile grip for optimal user comfort
- 10 ft. flexible durable runner cord

Capacity		AC Volts	Amps	Strokes/ Minute	Min. Cutting Radius
Steel	Stainless				
18 Ga.	20 Ga.	120	6.8	2,500	7"

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80468	6852-20 18 GA SHEAR	—



## M12 ProPEX Expansion Tools and Accessories

### Cordless, Lithium-Ion



#### 2432-22 Expansion Tool Kit

- Built-in auto rotate mechanism for effortless, one-handed use
- Quick cam mechanism for fast, continuous expansion
- Compact, right angle design for use in tight locations
- All-metal gears and integrated metal frame for maximum jobsite durability
- Paddle trigger for easy reach in confined spaces



#### Expansion Heads

- Auto-rotate compatibility
- Backward compatibility fits most Uponor tools
- Chrome plated for weather and corrosion resistance
- Color coded rings for easy size recognition

#### Expansion Tool Kit

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81120	2432-22 M12 PROPEX EXPANSION TOOL KIT	—

#### Accessories

1	EA	81121	49-16-2403 M12 3/8IN PROPEX EXPANSION HEAD	—
1	EA	81122	49-16-2404 M12 1/2IN PROPEX EXPANSION HEAD	—
1	EA	81123	49-16-2405 M12 5/8IN PROPEX EXPANSION HEAD	—
1	EA	81124	49-16-2406 M12 3/4IN PROPEX EXPANSION HEAD	—
1	EA	81125	49-16-2408 M12 1IN PROPEX EXPANSION HEAD	—



## 6509 Sawzall

### with Quik-Lok Blade Clamp



- Powerful 10 amp motor.
- Trigger speed control: 0 to 2800 spm.
- 3/4" blade stroke.
- Adjustable pivot shoe.
- Includes 2 super Sawzall blades, 8' two-wire rubber cord, and impact resistant carrying case.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80119	6509-31 SAWZALL W/QUIK LOK	—



## Accessories for 6519 Sawzall Plus

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80171	06-75-2402 MILW BLADE SCREW	—
1	EA	80182	42-68-0073 MILW CLAMP	—



## Bandsaw Blades

For any portable bandsaw that takes a 44-7/8" blade.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4 CTNS	PC-2 5-9 CTNS	PC-3 10 CTNS
1	EA	80317	48-39-0510 BAND SAW BLADE	—	—	—





## Circular Saw Blade

- 6-1/2 in. diameter, 48 carbide teeth
- 5/8 in. arbor
- Anti-kickback design
- Cuts ferrous metals



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80433	48-40-4015 6-1/2" CIRC SAW BLADE FOR FERROUS METALS	—



## Sawzall Blades

### 1/2" Universal Tang—For Wood cutting

#### Wood Cutting Blade, General Rough-In, Nail Embedded Wood, and Composition Material

Teeth Per Inch	Blade Length (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
6	6	1	PKG	80334	48-00-5035 (48-01-3035) SAWZALL BLADE 5/PKG	—	—	—
6	9	1	PKG	80338	48-00-5036 (48-01-3036) SAWZALL BLADE 5/PKG	—	—	—
6	12	1	PKG	80339	48-00-5037 (48-01-3037) SAWZALL BLADE 5/PKG	—	—	—
4/6	6	1	PKG	80288	48-00-5041 (48-01-5041) SAWZALL BLADE 5/PKG	—	—	—
6	9	1	PKG	80281	48-01-6036 SAWZALL BLADE 50/PKG	—	—	—

#### Wood, Nail Embedded Wood, and Demolition (The Ax Blade)

Teeth Per Inch	Blade Length (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
5/8	6	1	PKG	81210	48-00-5021 SAWZALL BLADE 5/PKG	—	—	—
5/8	9	1	PKG	81211	48-00-5026 SAWZALL BLADE 5/PKG	—	—	—
5/8	12	1	PKG	81212	48-00-5027 SAWZALL BLADE 5/PKG	—	—	—
5	6	1	PKG	80276	48-00-8021 6 IN 5 TPI SAWZALL BLADE 25/PKG	—	—	—
5	9	1	PKG	80384	48-00-8026 9 IN 5 TPI THE AX SAWZALL BLADE 25/PKG	—	—	—

#### Wood and Plastic Cutting Blade—Super Sharp

Teeth Per Inch	Blade Length (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
6	6	1	PKG	81243	48-00-5015 SAWZALL BLADE 5/PKG	—	—	—



## Sawzall Blades

### 1/2" Universal Tang—All Purpose Blade for Wood, Plastic, Metals, Cast Iron and Wood with Embedded Nails

Teeth Per Inch	Blade Length (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
10	6	1	PKG	80342	48-00-5092 (48-01-3092) SAWZALL BLADE 5/PKG	—	—	—
8/12	8	1	PKG	80299	48-00-5093 (48-01-5093) SAWZALL BLADE 5/PKG	—	—	—
8/12	12	1	PKG	80315	48-00-5094 (48-01-5094) SAWZALL BLADE 5/PKG	—	—	—
10/14	8	1	PKG	80343	48-00-5193 (48-01-3093) SAWZALL BLADE 5/PKG	—	—	—



## Sawzall Blades

### 1/2" Universal Tang—For Pipe, Conduit, Angle Iron and Steel (The Torch Blade)

Teeth Per Inch	Blade Length (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
10	6	1	PKG	80449	48-00-5712 SAWZALL BLADE 5/PKG	—	—	—
10	9	1	PKG	80450	48-00-5713 SAWZALL BLADE 5/PKG	—	—	—
14	6	1	PKG	80451	48-00-5782 SAWZALL BLADE 5/PKG	—	—	—
18	6	1	PKG	80453	48-00-5784 SAWZALL BLADE 5/PKG	—	—	—
14	9	1	PKG	80452	48-00-5787 SAWZALL BLADE 5/PKG	—	—	—
18	9	1	PKG	80454	48-00-5788 SAWZALL BLADE 5/PKG	—	—	—
18	12	1	PKG	80455	48-00-5789 SAWZALL BLADE 5/PKG	—	—	—



## Sawzall Blades

### 1/2" Universal Tang—For Metal Cutting

Teeth Per Inch	Blade Length (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1-4	PC-2 5-9	PC-3 10
14	6	1	PKG	80292	48-00-5182 (48-01-5182) SAWZALL BLADE 5/PKG	—	—	—
18	6	1	PKG	80293	48-00-5184 (48-01-5184) SAWZALL BLADE 5/PKG	—	—	—
24	6	1	PKG	80332	48-00-5186 (48-01-1186) SAWZALL BLADE 5/PKG	—	—	—
14	9	1	PKG	80443	48-00-5187 (48-01-5187) SAWZALL BLADE 5/PKG	—	—	—
18	9	1	PKG	80444	48-00-5188 (48-01-5188) SAWZALL BLADE 5/PKG	—	—	—
18	12	1	PKG	80445	48-00-5189 (48-01-5189) SAWZALL BLADE 5/PKG	—	—	—
14	6	1	PKG	80328	48-00-5282 (48-01-1182) SAWZALL BLADE 5/PKG	—	—	—
18	6	1	PKG	80330	48-00-5284 (48-01-1184) SAWZALL BLADE 5/PKG	—	—	—
18	6	1	PKG	80282	48-01-6184 SAWZALL BLADE 50/PKG	—	—	—



## Super Sawzall Blades



### 9-Piece General Purpose Kit

- 3 6" 24TPI blades
- 3 6" 14TPI blades
- 2 6" 6TPI blades
- 1 9" 6TPI blade
- 1 storage container

### 12-Piece Demolition Kit

Demolition blades are thicker for maximum durability and taller for straighter cuts.

- 4 6" 18TPI The Torch blades
- 2 6" 8TPI The Wrecker blades
- 2 6" 5/8TPI The Ax blades
- 2 9" 6TPI The Ax blades
- 2 9" 14TPI The Torch blades
- 1 storage container

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80992	49-22-1129 12-PIECE DEMOLITION SAWZALL BL	—
1	EA	80957	49-22-1145 9-PIECE GENERAL PURPOSE SAWZALL BLADES	—
1	EA	80985	49-22-8510 RIGHT ANGLE ATTACHMENT	—



## M18 Cordless One-Handed Hackzalls



2625-20



2625-21

- One-handed design provides superior control and versatility over a standard reciprocating saw
- Compact size allows for cutting in tight spaces, and light weight makes overhead work easier
- Quik-Lok® blade clamp offers fast, easy tool free blade changes for Sawzall® blades and Hackzall® blades
- Built-in LED light illuminates the work surface while cutting
- Compatible with M18 XC high capacity and compact Lithium-Ion batteries

### 2525-21 Kit Includes:

- 2625-20 Hackzall reciprocating saw
- (1) M18 high capacity Lithium-Ion battery
- 1-hour charger
- Sawzall blade
- Contractor bag

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81115	2625-20 M18 HACKZALL RECIPRICATING SAW	—
1	EA	81116	2625-21 M18 HACKZALL RECIPRICATING SAW KIT	—



## M12 Hackzall™ Reciprocating Saw



- Only 11 inches and 2.6 pounds for cutting in tight spaces
- 12V Lithium-Ion batter offers longer run-time and fade-free performance
- Keyless Quik-Lok™ blade clamp allows for quick and easy blade changes
- All-metal gear case for added durability
- Built-in LED light illuminates work surface

### Includes:

- (2) 12V Lithium-Ion battery packs
- 30-minute charger
- (2) Hackzall™ blades
- Carrying Case

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80587	2420-22 M12 HACKZALL KIT	—



## Hack Saw



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82231	HS90 HACK SAW	—

# Malco® Sheet Metal Tools



SC-1



N-2R



S3R



12F Folding Tool



18/24 Divider



SL-1R



HC-1



2-DH



A40



A50



Scratch Awls



DS-1/DS-2

### Hand Crimpers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80677	C5R 5 BLADE REDLINE PIPE CRIMPER	—
1	EA	80678	C6R 5-BLADE REDLINE OFFSET PIPE CRIMPER	—
6	EA	80610	SC-1 MALCO HAND CRIMPER	—

### Hand Notchers

1	EA	80669	N1R 13/16 REDLINE HAND NOTCHER	—
1	EA	80672	N2R 1" REDLINE HAND NOTCHER	—

### Hand Seamers

1	EA	80688	S2R 3-1/4 WIDE REDLINE HAND SEAMER	—
1	EA	80687	S3R REDLINE OFFSET HAND SEAMER	—
1	EA	80689	S6R 6' WIDE REDLINE HAND SEAMER	—
1	EA	80581	S10 SEAMER AND TONGS - STRAIGHT	—

### Spring for C-1, S-2, SL-1, and N-1

1	EA	80647	5018 SPRING	—
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### Folding Tools

6	EA	80860	12F 12 IN. FOLDING TOOL 1, 3/8 IN. FOLDS	—
4	EA	80861	18F 18 IN. FOLDING TOOL 1, 3/8 IN. FOLDS	—
4	EA	80640	24F 24 IN. FOLDING TOOL 1, 3/8 IN. FOLDS	—

### Trammel Points

1	EA	83179	TR42 TRAMMEL POINTS	—
1	PKG	83180	TRP TRAMMEL POINTS 2/PKG	—

### Quick Set Dividers

6	EA	83175	18 MALCO DIVIDER	—
6	EA	83176	24 MALCO DIVIDER	—
1	PKG	83174	RP-2 DIVIDER POINT 2/PKG	—

### Snaplock Punch

1	EA	80692	SL1R REDLINE SNAP LOCK PUNCH	—
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### Hole Cutter & Bit

1	EA	80661	CB REPL BIT F/HC-1	—
1	PKG	80668	CBB CUTTER BITS F/HC1 - BULK	—
1	EA	80660	HC-1 HOLE CUTTER	—
1	EA	80662	HC1-B PIVOT PIN SET	—

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**Pipe and Duct Holder**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	SET	80621	2-DH MALCO PIPE & DUCT HOLDER	—

**Sheet Metal Scribe & Scriber**

20	EA	80582	A40 SHEET METAL SCRIBE	—
6	EA	80629	A50 CARBIDE TIPPED SCRIBER	—

**Scratch Awls**

6	EA	80615	A-0 MALCO SCRATCH AWL	—
6	EA	80616	A-1 MALCO SCRATCH AWL	—
6	EA	80627	A-2 MALCO SCRATCH AWL	—
6	EA	80628	A-3 MALCO SCRATCH AWL	—
6	EA	82901	A-20 MALCO SCRATCH AWL	—

**Duct Stretcher**

6	EA	80648	DS-1 DUCT STRETCHER	—
4	EA	80645	DS2 OFFSET DUCT STRETCHER	—

# Malco Snips and Shears



TS-1



TSDC



TSHD



M2001



M2005



M2006



AV1



MC12, -14



M-14



M-15

### TurboShear

Model No. TS1 inserts directly into the chuck of a standard 1200 rpm A/C or cordless drill. It cuts straight and to the left and is capable of navigating tight curved patterns and squares in heavy 20-gauge galvanized steel.

### TurboShear Heavy Duty

The TurboShear HD cuts straight and to the left and makes fast cuts in material thickness up to 18-gauge galvanized steel.

### Aviation Snips—Max2000

The Max2000 has hardened alloy steel blades with precision ground cutting edges that ensure a minimal force cut and maximum service life.

### Aviation Snips—AV Series

Aviation style steel metal snips for straight cuts and slightly curved cuts in either direction.

### Andy Aluminum Handled Snips

The Andy Snip offers easy blade replacement and larger handles. It has a sleek head design to improve maneuverability. Ideal for making cuts in tight material, shapes such as J-Channel.

### Forged Steel Snips

The Forged Steel Snips are big and powerful and are used for straight cuts and notches.

### TurboShears and TurboShear Heavy Duty

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80664	TS1 TURBOSHEAR	—
1	EA	80658	TSDC DRILL CLAMP F/TS1	—
1	EA	80659	TSHD HEAVY DUTY TURBOSHEAR	—

### Aviation Snips—Max2000

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
Cuts Left and Straight	6	EA	80523	M2001 AVIATION SNIP CUTS LEFT &	—
Cuts Right and Straight	6	EA	80524	M2002 AVIATION SNIP CUTS RIGHT &	—
Combination Cut	6	EA	80525	M2003 AVIATION SNIP COMBINATION CUT	—
Notching, Trimming	6	EA	80531	M2005 BULLDOG AVIATION SNIP	—
Left Cut Offset	6	EA	80538	M2006 LEFT CUT OFFSET SNIP	—
Right Cut Offset	6	EA	80539	M2007 RIGHT CUT OFFSET SNIP	—

### Aviation Snips—AV Series

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80652	AV1 LEFT CUT AVIATION SNIP	—
1	EA	80653	AV2 RIGHT CUT AVIATION SNIP	—
1	EA	80656	AV6 LEFT / OFFSET AVIATION SNIP	—
1	EA	80657	AV7 RIGHT / OFFSET AVIATION SNIP	—
1	EA	80702	AV3 COMBO CUT AVIATION SNIP	—

### Andy Aluminum Handled Snips

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
Cuts Straight or Circles	3	EA	80532	MC12(N) 12" ALUM COMB SNIP	—
Cuts Straight or Circles	3	EA	80533	MC14(A) 14" ALUM COMB SNIP	—
Cuts Straight	3	EA	80614	M-14N ANDY SNIPS	—

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**Forged Steel Snips**

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
Cuts Straight & Notches	1	EA	80541	M-15 S/M SNIP	—

**Parts and Accessories**

MAX2000	1	EA	80540	M2000S REPLACEMENT SPRING F/MAX2000	—
M-14 (Old Version)	1	SET	80613	M-14RB BLADE SET	—
M-14N	1	EA	80646	M14NRB REPLACEMENT BLADE (F/M-14(N))	—
TurboShear	1	EA	80663	TS1RB TURBOSHEAR REPLACEMENT BLADE	—



**Snips**



J1102S



J2100L



J2101R



J2103S

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83633	J1100L JOURNEYMAN AVIATION SNIP LEFT CUTTING	—
1	EA	83634	J1101R JOURNEYMAN AVIATION SNIP RIGHT CUTTING	—
1	EA	83635	J1102S JOURNEYMAN AVIATION SNIP STRAIGHT CUTTING	—
1	EA	83636	J2100L JOURNEYMAN KURVE OFFSET SNIP LEFT CUTTING	—
1	EA	83637	J2101R JOURNEYMAN KURVE OFFSET SNIP RIGHT CUTTING	—
1	EA	83638	J2103S JOURNEYMAN KURVE BULLDOG SNIP STRAIGHT CUTTING	—
1	EA	83639	J2104L JOURNEYMAN UPRIGHT SNIP LEFT CUTTING	—
1	EA	83640	J2105R JOURNEYMAN UPRIGHT SNIP RIGHT CUTTING	—



**Sheet Metal Hammers**



RH4



SH3

One-piece forged, steel I-beam constructed hammers. Full polished heads with beveled face and pein are corrosion resistant.

RH4: Leather gripped handle

SH3: Leather gripped handle

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	80635	RH4 MALCO RIVETING HAMMER	—
4	EA	80636	SH3 MALCO SETTING HAMMER	—



### MB48 Portable Mini Brake™

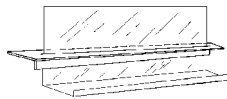


- Accommodates sheet metal up to 4 feet wide in any length.
- Safety conscious, cam-over style clamps keep anvil secure in any position.
- Makes bends to 135° in galvanized sheet metal up to 22 gauge.
- Ideal for fabricating plenums or large transitions at the job site.
- Adjustable strengthening ribs assure tightly formed bends.
- Compact size and lighter weight suitable for use virtually anywhere on the job site including a truck tailgate.
- Optional legs sold separately.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80935	MBL LEGS W/BASES AND FASTENERS	—
1	EA	80936	MB48(A) MINI BRAKE	—



### Bender



- Fabricate end caps, plenums and transitions at job site quickly and inexpensively.
- Light weight available for 36" and 48" bends.
- Bends 24/26 gauge metal up to 135°.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	80110	HB-0022 40" OAL HENSLERS BENDER	—



### Fiberglass Duct Tools

Cuts 4" to 20" diameter holes in 1" fiberglass ductboard.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
3	EA	80654	FG1 FIBERGLASS HOLE CUTTER	—



### FasGroov® Fabricating System



One-piece layout system for 1-1/2" and 1" board incorporates the FasGroov square with anodized steel tools. Offsets built into the square and tools allow you to layout 1-1/2" and 1" ductboard as you cut.

#### FGSLK Shiplap Kit Includes:

FGV1, FGV24, FGV3, FGV5, FGV6 tools, plus FGS square, and FGK, FGM, FGF knives in a tool case.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
3	EA	80571	FGF FEMALE SHIPLAP KNIFE	—
6	EA	80569	FGK DUCT KNIFE	—
3	EA	80570	FGM MALE SHIPLAP KNIFE	—
1	EA	80561	FGSLK SHIPLAP KIT - 2 CTNS	—
1	EA	80562	FGV VEE-GROOVE TOOL	—
1	EA	80573	FGVRB VEE-TOOL REP BLADE	—



## PROMAX Refrigerant Recovery System



- Works with all CFC, HFC, HCFC refrigerants including R-410A.
- Large oversized pressure gauges are easy to read.
- Compact package that is small and light.
- Power: 115V AC 60 Hz
- Weight: 26 lbs.
- Dimensions: 12" H x 9" W x 16" D.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1	PC-2 2
1	EA	82984	RG6000 RECOVERY MACHINE	—	—



## G5 Twin Refrigerant Recovery Machine



### G5 Twin

- Pumps vapor and liquid without throttling
- High speed/high pressure turbine fan—over 600 cfm
- Heavy duty crankcase isolated from refrigerant
- Weight: 24 pounds

### Valve Core Removal Tool

- Vacuum rated to 20 microns
- Positive core grip tip for easy, reliable core removal, minimizes lost cores
- Easy grip for attaching to the system, pump and gauges
- MegaSeal™ cap, made with aircraft grade aluminum, with molded neoprene seating material for reliable seal under pressure and vacuum

### Refrigerant Recovery Machine

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82284	G5TWIN REFRIGERANT RECOVERY MACHINE	—

### Accessories

1	EA	82285	MGA VCT 1/4 IN VALVE CORE REMOVAL TOOL	—
1	EA	82286	MGA VCR 5/16 IN VALVE CORE REMOVAL TOOL	—
1	EA	82287	KTF032 INLINE FILTER DRYER KIT	—



## Deep Vacuum Pump

- Free air displacement: 6.0 CFM
- Motor (1725 RPM): 1/2 Hp
- Intake fitting-flare: 1/4 and 1/2 male
- Oil capacity: 27 oz.
- Net weight (lbs.): 31.5
- Dimensions H x W x L: 12 x 6-3/4 x 16-1/4
- Unit is shipped without oil. Vacuum pump oil requires frequent changing. Do not use dirty oil.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83127	93560 6 CFM SUPEREVAC PUMP	—



## Deep Vacuum Pumps



DV-6E



DV-85N/142N/200N



DVO-1, DVO-12, DVO-24

All units are shipped without oil. Vacuum pump oil requires frequent changing. Do not use dirty oil.

	DV-6E	DV-85N	DV-142N	DV-200N
<b>Free Air Displacement</b>	6 CFM	3 CFM	5 CFM	7 CFM
<b>Motor (1725 RPM)</b>	1/2 HP	1/2 HP	1/2 HP	1/2 HP
<b>Intake Ports (Male Flare)</b>	1/4 x 3/8	1/4 x 3/8	3/8 x 1/4 x 3/8	1/2 x 1/4 x 3/8
<b>Oil Capacity</b>	18 Oz.	26.5 Oz.	14.5 Oz.	23 Oz.
<b>Net Weight (Lbs.)</b>	30	28	33	32
<b>Dimensions H x W x L</b>	17-5/8 x 9-1/8 x 14	11-1/4 x 6-1/2 x 15-1/2	11-1/4 x 6-1/2 x 15-1/2	17-5/8 x 9-1/8 x 14

### Pumps with Blankoff Valve and Cleanable Inlet Screen

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83133	DV6E 6 CFM 115VOLT/60HZ ELIMINATOR VACUUM PUMP	—
1	EA	83121	DV-85N 3 CFM VACUUM PUMP	—
1	EA	83139	DV-142N 5 CFM VACUUM PUMP	—
1	EA	83134	DV200N 7 CFM 115 VOLT 60 HZ PLATINUM VACUUM PUMP	—

### Accessories

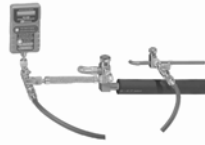
24	EA	83140	DVO-1 1-SHOT (PINT) VACUUM PUMP OIL	—
12	EA	83142	DVO-12 QUART VACUUM PUMP OIL	—
6	EA	83141	DVO-24 GAL VACUUM PUMP OIL	—
1	EA	83136	PR-6 FLEX PUMP COUPLER	—
1	EA	83135	PR-208 FLEXIBLE COUPLER	—



## Digital Vacuum Gauges



DV-22



DV-41



DV-29

### DV-22 Digital Vacuum Gauge

- Accurate display from 50 to 6000 microns.
- Retractable hanging hook.
- Uses one 9 volt battery (not included).

### DV-29 Micron and Superheat Gauge Hookup Test Unit

- Works with all micron gauges and creates a closed system, eliminating any leakage under deep vacuum.
- Consists of a 10 inch metal hose with o-ring quick couplers, ball valve with o-ring quick coupler with depressor, 90° male flare with 1/4 inch o-ring quick coupler and valve assembly with 1/4 inch male flare connections.

### DV-41 Supernova Digital Vacuum Gauge

- Accurate display from 10 to 12,000 microns.
- Programmable alarm allows you to perform other tasks.
- Measures in microns, PSI, InHg, Pascal, Torr, mTorr, and mBar.
- Programmable shut-off.
- Large, easy-to-read LCD screen.
- Includes case
- Backlight is programmable for duration.

### Digital Vacuum Gauges

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1
1	EA	83083	DV-22(N) DIGITAL HAND HELD VACUUM GAUGE	—
1	EA	83057	DV41 SUPERNOVA DIGITAL VACUUM GAUGE WITH CASE	—
1	EA	83079	DV-29 MICRON GAUGE HOOK-UP TEST UNIT	—

### Couplings for DV-41

1	EA	54797	QC-S4 STRAIGHT COUPLING	—
1	EA	54796	QC-S5 STRAIGHT QUICK COUPLER	—



## Digital Micron Gauges

The DMG100 and DMG200 offer in field-calibration, analog bar graphs, easy sensor cleaning and oil contamination sensors.

### DMG100

- Measures pressure in Microns, Pascals, Millibar, Millitorr, and mmHg with resolution down to 1 micron.
- Small, lightweight and rugged.
- Easy to use



### DMG200

- Measures pressure in Microns, Pascals, Millibar, Millitorr, and mmHg with resolution down to 1 micron.
- Increased resolution to 0.1 micron below 9,999.
- Measures ambient temperature.
- Programmable alarm for unattended evacuation of HVAC/R systems.
- Vacuum leak rate indicator
- Small, lightweight and rugged.
- Easy to use



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 1
1	EA	82720	DMG100 DIGITAL MICRON GAUGE PRO	—
1	EA	82721	DMG200 DIGITAL MICRON GAUGE PRO PLUS	—

**Thermal Replacement Vacuum Sensors**



- Vacuum sensor for Vak-check, Super Vak-check, and Super Vak-Check II
- Models 4501, 4575 and 14571 with 0 to 50 calibration scale

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1
1	EA	83014	4510 REPLACEMENT SENSOR F/14571 SUPER VAC-CHECK	1 —



**Manifolds and Accessories**



24125/24233



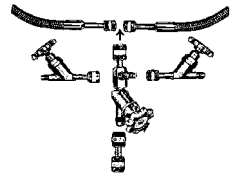
25240



26233



M2-5



Components

**Manifolds**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83064	24125 R-22,134A,404A, 2-VALVE ALUM MANIFOLD W/ILLUM GAUGES	—
1	EA	83054	24233 R-22,404A,410A 3 1/8 2-VLV ALUM MNFLD W/HOSES	—
1	EA	83055	25233 4 VALVE 80MM ALUMINUM MANIFOLD R-22,404A,410A	—
1	EA	83052	25240 R-22,404A,410A 4-VLV ALUM MNFLD W/HOSES W/BALL VLVS	—
1	EA	83078	26233 4-VALVE BRASS 80MM BALL VALVE MANIFOLD W/HOSES	—
1	EA	83053	M2-5-410A R-22,404A,410A 2-VLV BRASS MNFLD W/60 IN. HOSES	—

**Accessories**

5	EA	83123	M2-102N HANGING HOOK	—
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## Kobra High Pressure Hoses



CLE



CLS



CLBV



CLV

JB Kobra® hoses feature patent-pending design improvements that significantly reduce blowout and provide maximum flow. Kobra hoses are made from Kevlar® and are incredibly strong and flexible.

### CLE Series

- Gasket seal fitting
- Depressor set to ARI standard for access valve core
- Features blowout resistant depressor and barrel gasket

### CLS Series

- Secure seal fitting
- Opens to full flow
- Automatically traps refrigerant discharge in hose

### CLBV Series

- Ball valve

### CLE Series

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83062	CLE-60 60IN KOBRA HOSE SET W/GASKET SEAL	—
1	EA	83066	CLE-60B 60IN BLUE KOBRA HOSE W/GASKET SEAL FTGS	—
1	EA	83067	CLE-60R 60IN RED KOBRA HOSE W/GASKET SEAL FTGS	—
1	EA	83063	CLE-60Y 60IN YELLOW KOBRA HOSE W/GASKET SEAL FTGS	—

### CLS Series

1	EA	83058	CLS-60 60IN KOBRA HOSE SET W/SECURE SEAL	—
1	EA	83060	CLS-60B 60IN BLUE KOBRA HOSE W/SECURE SEAL FTGS	—
1	EA	83061	CLS-60R 60IN RED KOBRA HOSE W/SECURE SEAL FTGS	—
1	EA	83059	CLS-60Y 60IN YELLOW KOBRA HOSE W/SECURE SEAL FTGS	—

### CLBV Series

1	EA	83068	CLBV-60 60IN KOBRA HOSE SET W/BALL VALVE	—
1	EA	83075	CLBV-60B 60IN BLUE KOBRA HOSE W/BALL VALVE FTGS	—
1	EA	83076	CLBV-60R 60IN RED KOBRA HOSE W/BALL VALVE FTGS	—
1	EA	83074	CLBV-60Y 60IN YELLOW KOBRA HOSE W/BALL VALVE FTGS	—

### CLV Series

3	EA	83095	CCLV-72 72 IN CHARGE LINE SET	—
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## Ball Valve Hose

- Whip end only with ball valve
- Connects to hose fitting



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	EA	83097	CLV-6B 6 IN BLUE CHARGE LINE	—
5	EA	83096	CLV-6R 6 IN RED CHARGE LINE	—
5	EA	83098	CLV-6Y 6 IN YELLOW CHARGE LINE	—
5	PKG	83090	P90513 DEPRESSOR F/HOSES&CPLRS 5/PKG	—



## Heavy Duty 3/8" Charging Hose



- Reduces permeation
- 900 psi working;
- 3500 psi burst
- Straight fittings by straight fittings

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83077	CL6HD-72 3/8IN X 72IN HEAVY DUTY BLACK CHARGING HOSE	—



## Hose Replacement Parts

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PKG	55784	P509-10 1/4 IN CAP,HOSE & COUPLER GASKET 10PK	—
1	PKG	55785	P511-10 1/4 IN CAP GASKET 10/PK	—
1	PKG	55786	P90022 REPLACEMENT O-RING 5/PK	—
1	PKG	55787	P90514 1/4 IN DEPRESSOR HOSE & COUPLER 5/PK	—



## Refrigeration Gauges For Pressure Vacuum and Compound Requirements



### Refrigerants: R-12, R-22, and R-502.

- M2-250: Low side; 1/8" MPT Conn; 2-1/2" Dial; 30" Vac. to 120 psi; with retard to 150
- MC-250B: Low side; 1/8" MPT Conn; 2-1/2" Dial; 30" Vac. to 120 psi; with retard to 250.
- M2-500 and M2-500B: High side; 1/8" MPT Conn; 2-1/2" Dial; 0 to 500 psi.
- M2-800 and M2-805: 3-1/8" Dial; 30" Vac. to 120 PSI; with retard to 350.

### Refrigerants: R-134a, R-404A and R-507

- M2-420 and M2-425: 1/8" MPT Conn; 2-1/2" Dial; 30" Vac. to 120 psi; with retard to 350.

### Refrigerants: R-12, R-22, and R-502

- M2-800 and M2-805: 3-1/8" Dial; 30" Vac. to 250 psi with retard to 500 psi.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	EA	83105	M2-250 COMPOUND GAUGE BLUE	—
5	EA	83117	M2-250B COMPOUND GAUGE BRASS	—
1	EA	83171	M2-420 2-1/2 IN STANDARD COMPOUND GAUGE R-134A,40A,507	—
1	EA	83167	M2-425 2-1/2 IN STANDARD PRESSURE GAUGE R-134A,40A,507	—
5	EA	83106	M2-500 PRESSURE GAUGE RED	—
5	EA	83119	M2-500B PRESSURE GAUGE BRASS	—
1	EA	83164	M2-800 3-1/8IN GLOW-IN-THE-DARK COMPOUND GAUGE R-12,22,502	—
1	EA	83163	M2-805 3-1/8IN GLOW-IN-THE-DARK PRESSURE GAUGES R-12,22,502	—
1	EA	83166	M2-820 3-1/8 IN ILLUMINATED COMPOUND GAUGE R-22,40A,410A	—
1	EA	83165	M2-825 3-1/8 IN ILLUMINATED PRESSURE GAUGE R-22,40A,410A	—
1	EA	83112	MR-517 PLASTIC GAUGE LENS	—



## Brute II 4-Valve Manifold

- Vacuum Port: 3/8"
- High and Low: 1/4"
- Gauge: 3-1/8" R&B
- Gauge Scales: R-12, R-22, and R-502.
- Hoses: 60" Plus II RYB and 3/8" x 45°



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82848	46022 4-VLV BRUTE II MANIFOLD R-12/22/502 HAV-60"	—



## Series 41 Manifold



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82646	42001 R-22,404A,410A 2-VALVE MANIFOLD	—



## Original Yellow Jacket® Series 41 Manifolds

- Large bold numbers and colored scales are easy to read. Removable Lexan® crystals resist breakage.
- Heavy-duty swivel hook.
- Forged body is solid brass for durability.
- Full porting maximizes capacity.
- Metal valve handles are full size for easy operation.
- Flutterless™ Technology. Surge protector and silicone dampened movement helps minimize needle pulsation for easier, more accurate readings.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82600	41215 2-VALVE MANIFOLD W/60IN HOSES	—
1	EA	82604	41315 R404A MANIFOLD HA-60 RYB	—



## Heavy Duty Plus II 3/8" Hose Combination Charging/Hi-Vacuum

- Permeation resistant Plus II™ barrier.
- Operating temperature -20° to 200° F.
- Working pressure 750 psi; 3000 psi burst.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83138	15672 BC-72IN VACUUM HOSE	—



## Yellow Jacket® Plus II™ 1/4" Charging Hoses with Double Barrier Protection



- Moisture barrier provides improved resistant to moisture migration which contaminates expensive refrigerant.
- 4000 psi minimum burst and 800 psi maximum working pressure for a 5 to 1 safety factor.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82631	21060 60" YELLOW PLUS II HOSE W/STD FTGS	—
1	EA	82632	21260 60" BLUE PLUS II HOSE W/STD FTGS	—
1	EA	82633	21660 60" RED PLUS II HOSE W/STD FTGS	—
1	EA	82634	21985 60" RYB PLUS II HOSE W/STD FTGS 3/PK	—



## Plus II Hose with SealRight™ Low Loss Anti-Blowback Fitting



- Low loss anti-blowback SealRight™ fitting immediately traps refrigerant in the hose when disconnected, helping meet non-venting regulations and preventing finger burns.
- 45° end for ease in tight areas.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82616	22985 60" 3/PK CHARGING HOSE W/SEALTIGHT	—
1	EA	82628	22060 60" YELLOW PLUS II HOSE W/SEALRIGHT FTGS	—
1	EA	82629	22260 60" BLUE PLUS II HOSE W/SEALRIGHT FTGS	—
1	EA	82630	22660 60" RED PLUS II HOSE W/SEALRIGHT FTGS	—



## Yellow Jacket® Plus II™ Hose with Compact Ball Valve End



New compact design ball valve with metal handle at end of hose fits tight areas and traps all the gas. 4000 psi burst and 800 psi working pressure uses standard gasket and valve opening.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82635	29060 60" YELLOW PLUS II HOSE W/BALL VALVE	—
1	EA	82636	29260 60" BLUE PLUS II HOSE W/BALL VALVE	—
1	EA	82637	29660 60" RED PLUS II HOSE W/BALL VALVE	—
1	EA	82638	29985 60" RYB PLUS II HOSE W/BALL VALVE 3/PK	—





## SealRight™ Fittings

### Quick Couplers

SealRight fittings automatically and immediately trap refrigerant in the hose when disconnected, helping meet non-venting regulations and preventing finger burns. Works with or without Schrader core. Field serviceable. Not recommended for R-410A systems.



19109



19209

### Gaskets

The only gaskets designed for optimum performance with Yellow Jacket® charging hoses. Works with all refrigerants. Manufactured to strict tolerances to resist blow out.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PKG	82639	19037 1/4" SEALRIGHT O-RINGS PKG/10	—
1	PKG	82640	19011 CH-11 BULK GASKETS PKG/10	—
1	EA	82641	19040 1/4" SEALRIGHT REPAIR KIT	—
1	EA	82654	19109 1/4" STRAIGHT SEALRIGHT COUPLER	—
1	EA	82656	19209 90 DEG 1/4" SEALRIGHT COUPLER	—



## Liquid Charging Adapter



Liquid charging is recommended when charging blends into refrigeration and air conditioning systems, and a liquid charger adapter is necessary for safe and fast liquid charging through the low side of the system.

- 1/4" liquid charging adapter.
- Metering element reduces liquid flow to a level below capacity of compressor.
- Accepts liquid refrigerant from the cylinder and discharges into low side of the system.
- Eliminates time and effort of heating cylinders.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	54795	LC-4 LIQUID CHARGING ADAPTER	—



## Refrigeration System Analyzer with Vacuum Gauge



The Testo 557's built in vacuum gauge allows you to know when you have reached the limits when evacuating a system. It comes complete with 2 clamp probes, integrated hook, built in hose holders and a hard carrying case.

- Built-in vacuum gauge
- Robust valve block with 4 connections and built-in sight glass
- 2 temperature probe inputs for simultaneous real-time calculation of superheat and subcooling
- 40 refrigerants stored eliminating the use of PT charts

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83260	TESTO 557 REFRIGERATION SYSTEM ANALYZER WITH VACUUM GAUGE	—

## ROBINAIR Digital Gauges



Robinair's new digital gauge automatically perform pressure temperature calculations for up to 17 different refrigerants. Its compact design, large display and bright backlight provide technicians with accurate readings and ease of use in any location.

- Compatible with numerous manifolds
- Easy to read backlit display
- Accurate readings
- Supports multiple refrigerants
- Built-in pressure/temperature chart

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82353	11910 LOW SIDE DIGITAL GAUGE	—
1	EA	82354	11920 HIGH SIDE DIGITAL GAUGE	—



## Glycerine Filled Gauges



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82484	TIF9622B BLUE GLYCERINE GAUGE	—
1	EA	82485	TIF9632R RED GLYCERINE GAUGE	—



## Manifold Accessories



69670

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PKG	82868	19020 GASKET 10/PKG	—
1	EA	82870	69670 NEEDLE TYPE BLEED VALVE	—
1	EA	82873	14560 3/8" "B" PLUS II CHARGING HOSE 60"	—



## Manifold Seal Kit

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PKG	82048	65116/600R DIAPHRAGM REPL SEAL KIT	—



## R-410A Lineset Adapter

Adapter for charging mini split systems.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83051	AD87 R410A LINESET ADAPTER	—



Vizi-Vapr acts as a restriction in the charging line between cylinder and compressor. This restriction is much like an expansion valve in that it maintains high pressure behind it (cylinder pressure) to hold refrigerant as a liquid but has a large pressure drop across it to start evaporation.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83019	7701 THERMAL VIZI-VAPR CHARGER	—



### SH-35N Superheat and Subcooling Gauges

- Displays superheat for R-22 and R-410A, temperature, and pressure.
- Simple two button operation.
- Keys for all standard refrigerants.
- NIST traceable.
- Low battery indicator.
- SH-35N superheat and subcooling with memory (F).



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83086	SH-35N A/C & REF MULTI-FUNCTION GAUGE	—

### Superheat Calculator

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
25	EA	93865	950507 BERKHEIMER SUPERHEAT CALCULATOR	—



### 9010A Refrigerant Scale

- Three display modes.
- Very high resolution.
- Extreme accuracy.
- 110 pound/50kg capacity.
- Can be used with all refrigerants.
- Completely portable, battery powered.
- Two year warranty.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82429	TIF9010A SLIMLINE SCALE	—

**INFICON Wey-Tek Refrigerant Charging Scale**



- 220 lb. capacity.
- Durable weighing platform.
- Measures in lbs./ozs., kgs., or decimal lbs.
- Simple controls.
- Large LC for easy viewing, even in direct sunlight.
- High-accuracy load cell won't drift
- Automatic and manual zeroing.
- Hard plastic carrying case included.
- 1-year replacement warranty.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96074	713-202-G1 WEY-TEK REFRIG CHARGING SCALE	—

**INFICON Leak Detectors**



**Tek-Mate™ Handheld Refrigerant Leak Detector**

- Heated diode sensor technology.
- Sensitive to all CFCs, HFCs, and HCFs.
- Automatically adjust for different refrigerants.
- Automatically compensates for changing background contamination.
- Reliable, even under damp conditions.
- Variable-intensity audible alarm to help pinpoint leaks.
- Uses two D-size batteries.



**D-Tek™ Select Cordless Refrigerant Leak Detector**

- Equally sensitive to all refrigerants, including R-22, R-134A, R-404A, R410a, R-507 (AZ-50) and all CFCs HCFCs and HFCs.
- 800-hour infrared cell life for low cost of ownership.
- On-board diagnostics indicate charging status and warn of low battery or infrared cell failure.
- NiMH power stick is environmentally friendly, won't corrode, and provides greater charging capacity.
- Includes hard plastic case, NiMH power stick, 12V and 120V adapter/recharger, tip filters and infrared cell.



**Gas-Mate® Combustible Gas Detector**

- Sensitive to 5 PPM methane
- Innovative touch pad for sensitivity control
- Runs on two "D" batteries (included)
- Detects natural gas, propane, butane, cyclopentane, ethane, ethanol, isobutane and ammonia
- 3-year replacement warranty

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	96083	705-202-G1 TEK-MATE REFRIG LEAK DETECTOR	—
1	EA	96084	712-202-G1 D-TEK SELECT LEAK DETECTOR	—
1	EA	96073	718-202-G1 GAS-MATE COMBUSTIBLE GAS DETECTOR	—
1	EA	96082	703-020-G1 REPLACEMENT SENSOR	—



## Prowler Leak Detector



The LD 5000 Prowler uses a new proprietary electrochemical sensor technology for unparalleled accuracy coupled with the unique features. The LD 5000 uses a long life sensor that is designed to detect more current and more difficult HFC refrigerants (R-134a, R-410A, R-404A, R-407C, R-507) in addition to all HCFC (R-22) refrigerants including SNAP approved hydrocarbon blends.

- Electrochemical sensor
- Immediate response time
- Leak indication through vibrating handle, audio alarm, and bar graph on the LCD screen
- Automatic zero
- Operates on 4 AA batteries for 10 continuous hours
- Warm up time is less than 30 seconds

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83177	LD5000 PROWLER REFRIGERANT GAS LEAK DETECTOR	—



## Refrigerant Leak Detectors



### TIFXP-1 Refrigerant Leak Detectors

Features a completely redesigned sensing tip that increases sensitivity and improves reliability.

- Detects all halogenated refrigerants
- Certified to SAE J1627
- Variable frequency audible alarm
- CE Approved
- UL Classified

TIFXP-1 tri-color, six segment visual leak size indicator, displays 18 alarm levels, has seven levels of sensitivity adjustment, and a three year warranty.

### TIFZX

Detects all halogenated refrigerants, including R-410A. Features tri-color visual leak size indication. True mechanical pump provides instant response and clearing. A flexible stainless probe, carrying case, and re-charger included. CE approved. Patent pending Heated Pentrode™ sensor technology. Meets SAE J1627. TIFZX includes a 3 year warranty.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82427	TIFXP1A HALOGEN HAWK LEAK DETECT	—
1	PKG	82430	TIF XP-2 REPLACEMENT TIPS W/PROTECTORS	—
1	EA	82983	TIF-ZX LEAK DETECTOR	—



## Refrigerant Leak Detector

- Detects industry standard refrigerants
- Long life heated sensor technology
- Digital numeric leak size indicator
- 3 sensitivity levels
- 3 year limited warranty
- SAE J2791 certified
- CE certified



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82711	RLD15 AGENT 1 REFRIG LEAK DETECTOR	—



## Maintenance Kits

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82447	TIF555 MAINT KIT-5550/5650/5750	—



## Micro UV Leak Detector Kit



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82645	69727 SINGLE 1 OZ. DYE INJECTOR	—
1	EA	82643	69789 MICRO UV KIT W/INJECTOR	—



## Lamps for Fluorescent Leak Detection



### OPX-500CS Optimax Jr™ Flashlight

Mini flashlight is ultra compact, lightweight yet powerful. Reveals even the smallest refrigerant leaks. Perfect for leak checking hard-to-reach places. Compatible with all leak detection dyes.

- 100,000 hour LED bulb
- Delivers power comparable to 75W lamps
- Over 4 hours of peak performance
- Choice of continuous or momentary illumination
- Powered by 3 AA batteries (included)



### OPX-1000 Optimax™ Rechargeable Leak Detection Flashlight

- 10 times brighter than regular LED lights.
- Over 6 hours of operation between charges.
- Power comparable to super-high intensity 100W lamps.
- Inspection range of up to 20 feet.
- Powered by rechargeable NiMH battery included.
- AC charger.
- UVS-40 fluorescence-enhancing glasses.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82652	OPX-3000 OPTIMAX DETECTION FLASHLIGHT	—
6	EA	82653	OPX-500CS OPTIMAX JR CORDLESS FLASHLIGHT	—



## Leak Detector Kits



EZ100-CS



OPK-50EZ/E

### EZ100 Dye Injection System

- For small to medium sized AC&R systems (Up to 75 pounds of refrigerant or 6 gallons of lubricant).
- Just one connection. No additional refrigerant needed for injection-a turn of the handle is all it takes.
- Each prefilled, disposable cartridge treats up to 25 pounds of refrigerant or 2 gallons of lubricant.
- Calibrated cartridge provides exact dosing for multiple systems.
- Replace empty cartridge in seconds.

### OPK-50EZ/E EZ/Ject™ Kit

- Complete kit with 2 cartridges containing Universal/POE, solvent-free AR-GLO® fluorescent dye.
- EZ/Ject™ dye injector, hose, and fittings.
- GLO-AWAY dye cleaner.
- Fluorescence-enhancing glasses.
- Plastic carrying case.

Fluorescent Dye	For Systems Using	Treats
EZ4/ECS	Polyol Ester Mineral Oil Alkyl Benzene	Up to 25 lbs. of refrigerant Up to 2 gallons of lubricant
GS-1/ECS		Up to 4.9 lbs. of refrigerant Up to 1.6 qts. of lubricant
GS-2/ECS		5 to 9.9 lbs. of refrigerant 1.7 to 3.2 qts. of lubricant
GS-3/ECS		10 to 25 lbs. of refrigerant 3.3 to 2 gallons of lubricant
GS-101CS	Mineral Oil	Up to 2.9 lbs. of refrigerant Up to 15 fluid ozs. of lubricant

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82521	EZ100-CS DYE INJECT KIT FOR MINERAL OIL SYSTEMS	—
1	EA	82651	OPK-50EZ/E UNIVERSAL OPTIMAX JR. DYE INJECTION KIT	—

### Bleed Valve

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82492	BV-50 BLEED VALVE	—

### Fluorescent Dyes

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
Polyol Ester-Up to 25 lbs. of refrigerant or up to 2 gallons of lubricant	6	EA	82650	EZ4/ECS UNIVERSAL CARTRIDGE	—
Ester-Up to 4.9 lbs. of refrigerant or up to 1.6 qts. of lubricant	6	EA	82553	GS-1/ECS 1/2OZ GLO-STICK CAPSULE	—
Ester-5 to 9.9 lbs. of refrigerant or 1.7 qts. to 3.2 qts. of lubricant	6	EA	82554	GS-2/ECS 1/2OZ GLO-STICK CAPSULE	—
Ester-10 to 25 lbs. of refrigerant or 3.3 qts. to 2 gallons of lubricant	6	EA	82555	GS-3/ECS 1/2OZ GLO-STICK CAPSULE	—
Mineral-Up to 2.9 lbs. of refrigerant or up to 15 fluid ozs. of lubricant	6	EA	82493	GS-101CS .03OZ GLO-STICK CAPSULE	—



## Leak Detectors



### TIF8800X Combustible Gas Detector

- The TIF8800X is a battery-operated combustible gas detector that provides a ticking signal that increases in frequency as the source of combustible gas or vapor is approached.
- LED leak level indicator
- Sensitivity as low as 1 ppm (gasoline)
- Automatic warm up
- Flexible 14" wand for hard to reach places

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PKG	82452	TIF8806A BATTERIES 2/PKG	—
1	EA	82982	TIF8800X COMBUSTIBLE GAS DETECTOR	—



## Gas Leak Detectors



### CD100A

- Easy one hand operation
- Simple adjustment tic rate
- Long 18" gooseneck
- Tip light in sensor cover illuminates the area of the leak
- Headphone jack



### C071A

- Displays CO from 0 to 999 ppm.
- Tri-color LED indicates concentrations at 3 levels.
- Auto Zero activates upon turn on.
- MAXCAPTURE continually updates to provide the highest CO reading.
- Audible alert triggers above 35 ppm indicating threshold of dangerous CO concentration.
- Three year limited warranty.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82547	C071A CO DETECTOR	—
1	EA	82713	CD100A COMBUSTIBLE GAS LEAK DETECTOR	—



## CO91 Carbon Monoxide Analyzer



The CO91 is used to check ambient CO levels, find leaks along flue pipes or measure CO concentration in flue gas from furnaces or residential combustion appliances. With a link to the optional infrared printer, results can be printed to document test results, including the date and time. Perform adjustments to the appliance, and then recall the highest level of CO with the CO Max function. With the temperature function you are able to test test register outlet temperatures, or monitor stack gas temperature.

- Simple to use DMM style selector
- Measure ambient CO levels or CO concentration in flue gas.
- CO Max capture.
- CO accurate to  $\pm 5\%$  of reading.
- Temperature measurement.
- Auto-zero at power up.
- Link to optional infrared printer.
- Powered by 4 AA alkaline batteries.
- Three year limited warranty (two years on sensor).

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82558	CO91 CARBON MONOXIDE ANALYZER	—





## Combustion Analyzer Kits



### C155Kit Eagle 2X

The Eagle 2X extended life system analyzer uses new Electro-Optical Sensor (EOS) technology that takes direct CO<sub>2</sub> measurements and calculates the O<sub>2</sub> level. This CO<sub>2</sub> sensor has no physical contact with the gas, so there is no deterioration of the sensor over time and calculations remain highly accurate for a long period of time.

- Measures CO<sub>2</sub> (EOS technology), CO, and inlet flue temperatures
- Worklight
- 4 line backlit LCD display
- Individual report printouts
- Time and date stamp
- Low battery indicator
- Field replaceable sensors
- 5 year limited warranty (including sensor)

### C155 Kit Includes:

- C155 analyzer
- Flue probe
- IR printer
- (2) K-type temp probes
- (2) static pressure hoses
- (1) true draft probe
- Gas tap and hose
- AC adapter/charger
- Hard case
- (2) printer paper rolls
- (2) particle filters
- Batteries
- Quick start guide and owners manual



### Smart Bell Plus Kit

- Measures CO, CO<sub>2</sub>, and temperature
- Calculates O<sub>2</sub>, excess air and efficiency
- Dual scale pressure differential measurement

### Warranty

- Smart Bell Plus: 5 year limited
- EM201: 3 year limited

### Smart Bell Plus Kit Includes:

- Smart Bell Plus Combustion Meter
- Digital Manometer (EM201)
- Flue probe (KMCP70)
- Protective boot with magnet (SBOOT)
- Soft carrying case (AC73)
- Pressure tubes with brass fitting (2 BF100)
- Battery (9V)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82714	C155KIT EAGLE 2X COMBUSTION/SYSTEM ANALYZER	—
1	EA	82722	SMART BELL PLUS KIT COMBUSTION METER KIT	—
1	EA	82718	17631 PARTICLE FILTER	—



## Combustion Analyzers



### 310 Kit for Residential Applications.

- testo 310 analyzer
- Probe and hose
- Case silicon tubing
- Particulate filters (5)
- Pressure plugs (5)
- AC power supply/recharger (USB)
- Calibration certificate
- IR printer
- 2 rolls of thermal paper



### 320 Kit for Residential/Commercial Applications.

- testo 320 analyzer
- Probe and hose
- Particulate filters (10)
- AC power supply/recharger (USB)
- Calibration certificate
- IR printer
- 6 rolls of thermal paper

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83261	TESTO 310 RESIDENTIAL COMBUSTION ANALYZER W/PRINTER	—
1	EA	83262	TESTO 320 RESIDENTIAL/COMMERCIAL COMBUSTION ANALYZER W/PRINTER	—



## Smokeys Cartridges



Smoke emitter cartridges provide effective, low cost leak testing of heat exchangers, air ducts, tanks, and boilers. Visual air balancing of HVAC systems. Cartridges produce clean, non-toxic, oil-free smoke through chemical reaction. Use also for fire drills as well as the placement and testing of smoke alarms/detectors.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	PKG	82334	14145 SMOKE CARTRIDGES 10/PKG	—



## M-500 Megohmmeter



The M-500 was specifically designed as an inexpensive alternative to costly, taut band type megohmmeters. This battery operated instrument provides an accurate measurement range up to 1,000 megohms at 500 VDC to read insulation values.

Two test leads are furnished and stored within the durable shock resistant thermoplastic case. The M-500 comes complete with operating instructions, user manual, and a handsome, zippered vinyl carrying case.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82470	M-500 MEGOHMMETER	—



## Non-Contact Voltage Tester



- Automatically detects and indicates low voltage (12-48 volts AC) and standard voltage (48-1000 volts AC), allowing broad application.
- Digitally controlled ON/OFF power button.
- Auto power-off feature conserves and extends battery life.
- CAT IV 1000 volt rating provides expanded operation and protection.
- Package contains insert card with integrated owner's manual and 2 AAA 1.5 volt batteries.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83629	NCVT-2 DUAL RANGE NON CONTACT VOLTAGE TESTER	—



## Multimeters



### 2206-20 Fork Meter

- Measures up to 200 amps
- Wide .63" jaw opening
- True-RMS for accurate measurement in all applications
- Built-in voltage detector and LED worklight
- Thermocouple (dual banana) input for contact temperature
- 600 uA DC for flame rectification
- High contrast, white on black display with backlight for easy reading
- Rugged over-molding increases durability and user grip
- -40° F to 752° F
- 1000V AC/DC



### 2217-20 Digital Multimeter

- Wide voltage range to 600 volts AC/DC
- Auto range to millivolts
- True-RMS for accurate measurement in all applications
- Lo-Z measurement to eliminate ghost voltage
- Frequency measurements from 10Hz to 50kHz
- Contact temperature measurement from -40 to 752° F
- Current measurement to 10 amps AC/DC
- High contrast, white on black display with backlight for easy reading
- Rugged over-molding increases durability and user grip



### 2236-20 Clamp Meter

- Measures up to 600 amps AC
- Large 1.30" jaw opening
- Thin jaw profile for easier wire measurement in panels or in bundles
- Wide voltage range to 600 AC/DC volts
- True-RMS for accurate measurement in all applications
- Built-in voltage detector and LED worklight
- Thermocouple (dual banana) input for contact temperature measurement
- 600 uA DC for flame rectification
- High contrast, white on black display with backlight for easy reading
- Rugged over-molding increases durability and user grip

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81114	2206-20 HVAC/R FORK METER	—
1	EA	81113	2217-20 DIGITAL MULTIMETER	—
1	EA	81112	2236-20 TRMS CLAMP METER	—



## Clamp-on Meters and Accessories



DL389



DL379



DL49



ATTPC2

### DL389 G2 Phoenix PRO+ Digital Multimeter

### DL379 G2 Phoenix PRO Digital Multimeter

- True RMS (DL389 Only)
- Detachable clamp head
- 750V AC/1000V DC; 400A AC
- 2000 $\mu$  A AC/DC
- 40M ohms Resistance/Continuity
- 4000 $\mu$  F Capacitance
- 40~752° F Temperature (K type)
- Frequency/Duty Cycle
- $\mu$ A for Flame Safeguard
- Non-Contact Voltage
- Worklight
- Magnetic mount
- Test lead storage plus test lead holder on clamp head
- Data hold
- Manual ranging
- CAT III rated at 600 volts and CAT II rated at 1000 volts
- Three year limited warranty

### DL49 Digital Multimeter

- 600V AC and DC
- 400A AC and DC
- 40M ohms resistance/continuity
- 1mV DC resolution allows use of digital multimeter adaptors
- Date hold
- Autoranging
- AC amps peak hold
- Auto off
- CAT III rated at 400 amps and 600 volts AC and DC
- Three year limited warranty

### ATTPC2 Pipe Clamp Adaptor

- Easily grips pipes for quick temperature measurements
- For use with any meter that has temperature sensor inputs
- Measures 1/4" to 1-1/2" pipe circumference
- Surface probe capability
- Probe is thermally isolated from ambient temperatures to preserve accuracy
- Temperature range -40 to 250° F
- Compact and easy to use
- One year limited warranty

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82704	DL389 PHOENIX PRO+ TRMS CLAMP-ON DIG MULTIMETER	—
1	EA	82707	DL379 PRO DIGITAL CLAMP-ON METER	—
1	EA	82623	DL49 DIGITAL CLAMP AMMETER	—
1	EA	82715	ATTPC2 CLAMP STYLE ADAPTER	—



## Multimeters



### DM383 Digital Multimeter

- For routine maintenance.
- Large (.91"), 3-1/2 digit LCD
- Surge voltage protected
- Auto polarity
- Data hold
- Overrange indicator
- Audible continuity buzzer
- Diode check function
- Five year limited warranty.



### DM393 Digital Multimeter

- All inputs, ranges and functions protected to 1000V CAT III.
- Capacitance measurement from 40.00nF to 100.0uF.
- 0.5% basic DC accuracy.
- Frequency measurement to 10MHz.
- Temperature measurement using K-type thermocouple (included).
- True RMS AC Volts and Amps.
- Autoranging.
- Five year limited warranty.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82590	DM383(B) DIGITAL MULTIMETER	—
1	EA	82627	DM393 TRUE RMS DIGITAL MULTIMETER	—



## Accessories

ATL301KIT Includes: Set of straight to right angle standard test leads, 2-fine point leads, pair of alligator clips, grabber clips, and carrying pouch.

### Test Lead Kit

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82709	ATL301KIT TEST LEAD KIT	—

### Temperature Probes and Test Leads

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
DL389, DL379, DT301, DT302	1	EA	82716	ATT29 4 FT FIBERGLASS STANDARD TEMPERATURE PROBE K-TYPE	—
INF185, DT301, DT302	1	EA	82581	ATT29A 4 FT TEFLON STANDARD STAND TEMP PROBE K-TYPE	—
DM520, DM420, DM383, DM200, M110A, DL250, DL231, DL40, DCP9T	5	EA	82587	ATL55 RUBBER INSULATED TEST LEADS	—
DL279, DL289	1	EA	82701	ATL59 TEST LEADS F/PHOENIX	—



## DAVM+ Digital Air Flow/Volume Meter



Measure Air Flow (FPM) and volume (CFM) in the palm of your hand. Compact and easy to use, the DAVM+ also measures temperature, humidity and light. Ideal for air balancing and other indoor air quality applications.

- ° F and ° C selectable
- Standard K-type thermocouple connector
- Multi-channel display
- Data hold feature

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83087	DAVM+ DIGITAL AIR FLOW/VOLUME METER	—



## DAFM3 Digital Air Flow Meter

- -4 to 140° F (-20 to 60° C)
- Measures air velocity, temperature and relative humidity
- Calculate wet bulb, dew point, and air volume (CFM, CMM)
- Protective twist cap for temperature/humidity sensor
- Large LCD digital display
- One year limited warranty



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82710	DAFM3 DIG AIR FLOW W/HUMIDITY TESTER	—



## GE TECMate PRO Service Tool

The new GE TECMate PRO Service Tool is the latest advance in ECM technology developed by and for GE Motors. The Tecmate allows the service technician to analyze a GE ECM motor independently of the HVAC system in which it is installed. The Tecmate can test all the basic settings of a GE ECM motor, and can detect and isolate motor failures from HVAC system failures.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83050	08500 GE TECMATE PRO SERVICE TOOL	—



## Digital Thermometer™ Series



DT221

DT222

### DT221

- Single thermocouple input
- -328° to +2498° F (k-type)
- Accepts J and K type thermocouples

### DT222

- Dual thermocouple input
- -328° to 2498° F (k-type)
- Accepts J an K type thermocouples
- T1-T2 (differential)

### Features

- Auto power off with disable feature
- Large LCD screen
- Bright back-lit display
- °C/°F select function
- MIN/MAX
- Date hold
- REL mode to observe temperature changes
- 3 year limited warranty

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82717	DT221 SINGLE INPUT DIGITAL TEMPERATURE LOGGER	—
1	EA	82708	DT222 DUAL INPUT DIGITAL TEMPERATURE LOGGER	—



## EM151 and 201 Manometer Digital Alternative to U-Tube Pressure Measurement



EM151

EM201

### EM151 Electronic Manometer

- Single input to measure positive and negative pressure to 20 inch wg.
- Simple two-button operation
- 32 to 104° F
- 10 to 90% RH
- Three year limited warranty

### EM201 Dual Differential Manometer

- Dual scale: 40" water gauge and 100 mBar .001" wg resolution below 9.999"
- Three Scale: In WG, mBar and PSI
- 32 to 104° F
- 10 to 90% RH
- Min/Max
- Three year limited warranty

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82712	EM151 ELECTRONIC MANOMETER	—
1	EA	82719	EM201 DUAL DIFFERENTIAL MANOMETER	—



## Meters and Gages



### 460 Air Meter Air Velocity

High range 1000-4000 F.P.M., low range 260-1200 F.P.M.

### Static Pressure

Inches W.C. (plus or minus readings): high range .05-1.0"; low range .005-.09.

### 1227 Dual Range Manometers

These flex-tubes, U-inclined manometers include carrying plugs, 4-1/2' length Tygon tubing, non-kink connectors, 1/8" pipe thread to rubber tubing adapter, gage fluid, two magnetic mounting clips, brass terminal tube and vinyl carrying case.

**Range Vertical:** 0-16" w.c., with 1" Major DIV, .2 Minor DIV.

**Range Inclined:** -.20 to 0 to 2.6" w.c., .02 Minor DIV.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82526	460 AIR METER	—
1	EA	82522	1227 DUAL RANGE MANOMETER	—
1	EA	82528	A101 3/4 OZ RED GAGE OIL	—
2	EA	82524	A303 PORT STATIC PRES TIP	—



## 1212 Gas Pressure Kit



A complete kit for checking gas pressures in virtually all gas appliances such as water heaters, furnaces, stoves, and dryers.

**Kit Includes:**

- 1 - #1211-16 slack tube manometer, reads pressure to 16" water.
- 1 - Fluorescein green color concentrate with wetting agent, 3/4 oz. bottle.
- 2 - 1/8" pipe thread rubber tubing adapters.
- 1 - 1/8" to 1/4" pipe thread bushing.
- 1 - 3/16" rubber tubing, 3 ft. long.
- 1 - Rubber tubing adapter to fit standard 7/16" dia. spud.
- 1 - Plastic carrying case, 8-1/2" x 7" x 3-1/8"

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82527	1212 GAS PRESS KIT	—



## Gas Pressure Test Kit and Gas Test Gauge



78055/78060



78080/78085

### Gas Pressure Test Kit

Accurately set manifold pressure for natural and L.P. gas. Easier to use than a manometer and more compact too! Attractively priced. Special sensitive diaphragm gauge is calibrated in inches of water column. Tube nipple is for easy connection to manifold.

Gauge Range:

#78060 L.P. Gas Kit: 0-35" w.c.

#78055 Nat. Gas Kit: 0-10" w.c.

### Gas Test Gauge

Used on new construction to pressure test system installation for leaks. Can be used to pressure test for inspection codes also. After unit has been left on for a relatively short period, leak is indicated by pressure drop on gauge.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82755	78055 NAT GAS PRESS TEST KIT	—
1	EA	82754	78060 LP GAS PRESS TEST KIT	—
1	EA	82752	78085 0-30LB 1" GAS TEST GAUGE	—
1	EA	82753	78080 0-30LB 3/4 GAS TEST GAUGE	—



## Digital Psychrometer

The DTH31 Digital Psychrometer is an advanced handheld humidity and temperature meter. Its triple display shows three parameter readings simultaneously. It has everything you need to charge an air-conditioning system and determine heating, cooling, and ventilation needs. It gives you incredibly fast and accurate wet bulb, dry bulb, and dew point measurements.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82675	DTH31 DIGITAL PSYCHROMETER	—



**CHECK-IT** Testing Device  
ELECTRONICS CORP.

Quickly and accurately charge air conditioning systems where superheat readings are required.

- Temperature Range: -100 to 1000° F
- High impact carrying case
- Includes 3-15' color-coded, full-range wire probes.



Range	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
-100° to 500° F.	1	EA	82541	613 CHECK-IT SUP/HEAT PYROMETER	—

**Cooper** **ATKINS** Surface Mount Thermometers



6142-20



DM120

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81156	6142-20-3 -40/60F 2IN DIAL FRONT F/FLANGE-B/CONN PANEL THERM	—
1	EA	81165	DM120-0-3 -40/120 2IN FRONT FLANGE SURF/MOUNT PANEL THERM	—
1	EA	81166	DM120S-0-3 -40/120F 2IN BACK FLANGE SURFACE MT PANEL THERM	—

**Cooper** **ATKINS** Temperature and Humidity Instruments



4005I



470



SH66A



SRH77A

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81170	1075 -40/300F GENERAL PURPOSE THERMISTOR PUNCTURE PROBE	—
1	EA	81171	2010 -100/200F 0.5 IN AIR/SURFACE PROBE	—
1	EA	81173	4011 PIPE STRAP PIPE STRAP PROBE	—
1	EA	81186	4005I -40/300 CORDLESS PIPE THERMOMETER	—
1	EA	81187	470-0-8 1:1 -27/428F/C INFRARED THERMOMETER	—
1	EA	81168	SH66A-E -40/300F INDUSTRIAL MULTI-ZONE TEMP TESTER	—
1	EA	81169	SRH77A-E -40/300F TEMPERATURE THREE ZONE TEST INSTRUMENT	—

**Cooper**  
**ATKINS Pocket Test Thermometers**



CT220

DFP450W

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	81184	CT180-51-6 -40/180 F BIMETAL POCKET TEST THERMOMETER (NEON)	—
12	EA	81185	CT220-51-6 0/220 F BIMETAL POCKET TEST THERMOMETER (NEON)	—
1	EA	81183	DFP450W-0-8 DIGITAL POCKET DIGITAL POCKET TEST WATERPROOF	—

**Cooper**  
**ATKINS Thermometers**



25HP



335



1246

**Refrigerator/Freezer Thermometers**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81151	25HP-01-1 -20/80 DEG REFRIGERATION THERMOMETER	—
1	EA	81152	335-01-1 -40/80 DEG REFRIGERATION GLASS TUBE THERM	—

**Pocket Thermometers—1" Diameter Head; 5" Stem**

1	EA	81162	1246-01-1 -40/180 F 1 IN DIAL BI- POCKET TEST THERM	—
1	EA	81163	1246-02-1 0/220F 1 IN DIAL BI- POCKET TEST THERM	—

**Electronic Stem Thermometer**

1	EA	81178	DPS300-01-8 -58/302F DIGITAL POCKET POCKET TEST THERM SWIVEL HEAD	—
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**Milwaukee**  
**2266-20 Laser TEMP-GUN™**



- Surface temperature measurement from -20 to 932° F (-30 to 500° C).
- 12:1 distance to spot ratio. Measures a one foot spot from 12 feet away.
- User configurable high/low alarm settings.
- K-type thermocouple input for contact temperature.
- High contrast, white on black display with backlight for easy reading.
- Rugged over-molding increases durability and user grip.
- Hold, max value functions.
- Slide rail for mounting 2201 voltage detector with work light.
- 0.95 fixed emissivity.
- 5-year warranty.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80934	2266-20 LASER TEMP-GUN	—



**Thermometers**



550B



INF165



INF195



PDT550

**550B Digital Pocket Thermometer**

- Protective boot
- Magnet for easy use
- Water resistant
- -58 to 572° F
- MIN/MAX record
- Data hold
- Auto power off
- 3 year limited warranty

**INF165 Infrared Thermometer**

- -36.4 ~ 689° F (-38 ~ 365° C)
- 12:1 distance to spot ratio
- Max value capture
- 3 year limited warranty

**INF195 Infrared Thermometer**

- -76~ 1022° F (-60 ~ 550° C)
- 12:1 distance to spot ratio
- MIN/Max/Differential average
- Hi/low alarm (user adjustable)
- 3 year limited warranty

**PDT550 F/C Digital Pocket Thermometer**

- -58 to 571° F
- Built-in magnetic mount
- Waterproof
- MIN/MAX record
- Data hold
- Dual purpose probe cover serves as thermometer extension
- 3 year limited warranty

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
5	EA	82702	550B DIGITAL POCKET THERMOMETER	—
1	EA	82557	INF165 SCOUT 1 INFRARED THERMOMETER	—
1	EA	82551	INF195 SCOUT II INFRARED THERMOMETER	—
5	EA	82568	PDT550 F/C DIGITAL POCKET THERMOMETER	—

**PSG Digital Thermometer**



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83153	PAD-300 -50/300F DIGITAL POCKET THERM	—
1	EA	83149	BAT-393 REPL BAT FOR PAD-300 DIGITAL POCKET THERM	—

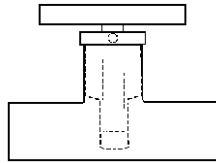
# Honeywell GS250 Thermometer with Thermowell



GS250



Sweat Well



Thermometer

**Materials:**

Case: steel

Well: brass

Length: 1/2 sweat x 2 inches long

Temperature Range: 32° F to 250° F

Comments: Brass thermowell is included to allow the thermometer to be removed without draining the system.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81330	GS250/U 2-1/2" THERMOMETER W/WELL	—



## Thermometers



25SD



5VBM-4



9VU-35



DVU-35/DVD-9



E35



HW5A2



HW5S2

### 25SD Solar Thermometer

- 40-0-160° F or 40-0-70°C
- 3/8" LCD
- Light Rating: 30 Lux to 50,000 Lux
- Sensor Length: to 40 ft.
- NSF accuracy for food zone applications

### 5VBM Silicon Filled Bimetal Thermometers

- For applications where severe vibration is a condition.
- Silicon filling dampens and lubricates the internal parts which reduces pointer flutter and prolongs instrument life.
- The silicone allows more rapid temperature response.
- 4" Stem length including thread.
- 1/2"NPT.

### 9VU 9" Scale Vari-Angle Thermometers

- Industrial glass.
- For chilled and hot water installations with 3-1/2" stem.

### DVU-35/DVD-9 Digital Vari-Angle Thermometers

- For hydronic applications.
- Self powered.
- With-in 1% accuracy.
- Bi-metal stem assembly.

### E35 Thermowell

- For use with industrial type thermometers.
- 3-1/2" socket.
- 3/4" NPT.
- HW Thermometers
- For small pipeline applications for chilled and hot water installations.
- Suited to limited space requirement.
- 5-1/2" scale.
- 1/2" NPT
- 40 to 260° F.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81343	25SD-160 1"X4" HORIZ SOLAR THERMOMETER	—
1	EA	81329	5VBM-4 4IN STEM 1/2IN NPT 0-250F W/RECALIBRATOR	—
1	EA	81334	9VU35-160 VARI-ANGLE 0/160 F INDUSTRIAL GLASS THERMOMETER	—
1	EA	81333	9VU35-240 VARI-ANGLE 30/240 F INDUSTRIAL GLASS THERMOMETER	—
1	EA	81344	DVD-9 9" STEM DIGITAL VARI-ANGLE THERM	—
1	EA	81328	DVU-35 3-1/2IN IND STEM DIGITAL VARI-ANGLE THERM	—
1	EA	81335	E35 3-1/2IN THERMOWELL	—
1	EA	81337	HW5A2 6IN ANGLE HOT WATER 40-260F THERMOMETER	—
1	EA	81336	HW5S2 6IN STRAIGHT HOT WATER 40-260F THERMOMETER	—



## Vacuum Gauge



This 2" dial gauge with a 1/4" NPT bottom stem connection provides economical indication of vacuum from 30 to 0 inches of mercury. Typically installed on vacuum pumps, vacuum return lines, and vacuum-operated processing equipment.

- **Accuracy:** ANSI Grade B 2%
- **Range:** 30-0" Hg. Vacuum
- **Ambient Temperature Range:** Should not exceed -40° to 160° F. (-40° to 71°C.)

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81305	TL25-VAC 30-0 HG VAC GAUGE	—



## General Purpose Equipment Gauges



Furnished in 1/4" NPT. Bottom connected steel cases the 2-1/2" dial. Gauges measure water, air, oil, gas, steam, or any other medium not corrosive to brass and phosphor bronze.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81306	TL25-030 0-30 PSI GAUGE	—
1	EA	81307	TL25-060 0-60 PSI GAUGE	—
1	EA	81308	TL25-100 0-100 PSI GAUGE	—
1	EA	81309	TL25-160 0-160 PSI GAUGE	—
1	EA	81310	TL25-200 0-200 PSI GAUGE	—
1	EA	81311	TL25-300 0-300 PSI GAUGE	—



## HVAC and Utility Pressure Gauges

Produced Especially for Large Volume Users in the HVACR Field



- Corrosion resistant stainless steel case and ring.
- Balanced adjustable black pointer.
- Soft soldered phosphor bronze tube with brass socket. Suitable for steam, water, air, oil, gas, or any medium not corrosive to copper alloys.
- Phosphor bronze movement is recommended for average general use.
- Easy to read dial; white background with bold black numerals and graduations.
- 1/4" NPT bottom connection only.
- 1% accuracy.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81312	4CTS-030 0-30 PSI GAUGE	—
1	EA	81313	4CTS-060 0-60 PSI GAUGE	—
1	EA	81314	4CTS-100 0-100 PSI GAUGE	—



## Compound Gauges



For those installations requiring indication of either a pressure or a vacuum. (eg., When the atmosphere within a closed vessel is evacuated and then replaced with another gas and kept under pressure.)

- 2-1/2" dial. 1/4 NPT lower stem connection.
- Accuracy: ANSI Grade B (2%).

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81315	TL25-30-0-60 30-0-60 PSI GAUGE	—
1	EA	81316	TL25-30-0-150 30-0-150 PSI GAUGE	—



## Low Pressure Diaphragm Gauges



Utilizes highly effective diaphragm sensing element to give accurate indication in low pressure or vacuum applications.

- 2-1/2" Dial. 1/4 NPT lower stem connection.
- Accuracy: ANSI Grade A (1%).

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81317	DG25 0-5 PSI DIAPHRAGM GAUGE	—
1	EA	81318	DG25 35 IN @ 20 OZ/IN DIAPHRAGM GAUGE	—



## Pressure Gauges



- 2-1/2" glycerine filled gauges.
- Bronze bottom connection.
- Stainless steel case.
- Thread on stem 1/4"NPT.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81319	LF25S1 1/4 LOWER 0-60 GAUGE	—
1	EA	81320	LF25S1 1/4 LOWER 0-100 PSI GAUGE	—
1	EA	81321	LF25S1 1/4 LOWER 0-300 PSI GAUGE	—



## Tridicators



Utilized on domestic boilers to indicate the operating conditions existing within hot water heating systems. Tridicator gauges indicate pressure, temperature, and system head in feet of water and features a movable pointer that can be set to mark the desired pressure and altitude of the installation.

PSI Range	Temp. Range Degrees F	Case Size	NPT	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
0-55	70-250	3-1/2	1/4	1	EA	81324	CTP25RX 2IN BACK CONN 1/4 NPT EXT BOILER GAUGE	—
0-55	70-250	2-1/2	1/4	1	EA	81327	CTP25R 2IN BACK CONN 1/4 NPT BOILER GAUGE	—



### Tri-O-Meters



CTP40L



CTP40RSX

The Tri-O-Meter is designed for use on all types of hot water heating systems. The H Series indicates water pressure, water temperature, and offers kPa reading. The C Series indicates water pressure, water temperature, and system head in feet of water.

The Tri-O-Meter is a 3-1/2" square dial with 1/2" NPT in lower or rear connection. Bold markings and colors on a white dial ensure easy readability. The case is black epoxy coated steel with glass window.

PSI Range	Temp. Range Degrees F	Case Size	NPT	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
0-200	80-320	4	1/2	1	EA	81338	HTP40L LOWER CONN 1/2 NPT BOILER GAUGE	—
0-75	60-260	4	1/2	1	EA	81339	CTP40L LOWER CONN 1/2 NPT BOILER GAUGE	—
0-75	60-260	4	1/2	1	EA	81340	CTP40RSX BACK CONN 1/2 NPT BOILER GAUGE	—
0-200	80-320	4	1/2	1	EA	81341	HTP40RSX BACK CONN 1/2 NPT BOILER GAUGE	—



### Tube Reamer

Steel blades remove inner and outer burrs.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82862	60161 1/16" UP TO 1-3/8" TUBE REAMER	—



### Ratchet Tube Cutter



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	82069	RTC623 MED RATCHET TUBE CUTTER	—



### Tube Cutters



70020

70027, 70029

70105

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83110	RT70015 1/8IN-1 1/8IN OD MINI MAX TUBE CUTTER	—
1	EA	83101	RT70020 1/8IN-1 1/8IN OD PROTRAC 28 PLUS TUBE CUTTER	—
1	EA	83103	RT70027 1/4IN-1 3/8IN OD 35 PRO TUBE CUTTER	—
1	EA	83118	RT70029 1/4IN-1 5/8IN OD 42 PRO TUBE CUTTER	—
1	EA	83116	RT70030 1/8IN-2 5/8IN OD RATCHET TUBE CUTTER	—
1	EA	83113	RT70105 1/8IN-7/8IN OD MINICUT 2000 TUBE CUTTER	—



## M12 Copper Tubing Cutter

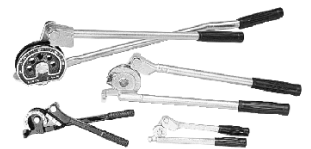


- 12V Lithium-Ion battery for longer run-time
  - Close quarter rotating cutting head cuts pipe in confined spaces
  - Automatic adjustment from 3/8" to 1" tubing
  - Auto locking mechanism
  - Ultra-efficient drive mechanism delivers over 200 cuts per charge
  - Water resistant metal cutter head
- Includes:**
- 12V Lithium-Ion battery pack
  - 30-minute charger
  - Carrying case

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80738	2471-21 M12 TUBING CUTTER KIT	—
2	PKG	81074	48-38-0010 COPPER CUTTER WHEEL 2/PACK	—



## Tube Benders



**60390** is a compact three-in-one bender for 1/4", 5/16" and 3/8" O.D. tubing. Calibrated markings for bends up to 180° help you duplicate angles. The balance of the line features special hardened wearing surfaces to help maintain accuracy.

**60361** is designed to slip over soft copper and aluminum tubing during bending to help prevent tube collapse.

### Lever Type

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82864	60377 1/2" TUBE BENDER	—
1	EA	82865	60378 5/8" TUBE BENDER	—
1	EA	82866	60379 3/4" TUBE BENDER	—
1	EA	82872	60390 1/4"-5/16"-3/8" 3-IN-1 TUBE BENDER	—

### Spring Type

1	EA	82869	60361 7/8" SPRING BENDER	—
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### Ratchet Type

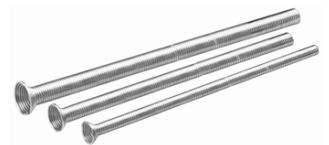
1	EA	82642	60331 3/8-1/2-5/8-3/4-7/8 IN RATCHET HAND BENDER	—
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### Reverse Bend Adapter

1	EA	82649	60342 REVERSE BEND ADAPTER	—
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## Spring Type Benders



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	93839	BS-4 1/4 SPRING BENDER	—
1	EA	93841	BS-6 3/8 SPRING BENDER	—
1	EA	93843	BS-8 1/2 SPRING BENDER	—
1	EA	93844	BS-10 5/8 SPRING BENDER	—
1	EA	93845	BS-12 3/4 SPRING BENDER	—





## Swaging Punch

Durable heat-treated and plated alloy steel tool expands one end of copper tubing for connecting same size tubes.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82852	60463 3/16" SWAGING PUNCH	—
1	EA	82851	60464 1/4" SWAGING PUNCH	—
1	EA	82858	60465 5/16" SWAGING PUNCH	—
1	EA	82853	60466 3/8" SWAGING PUNCH	—
1	EA	82854	60467 1/2" SWAGING PUNCH	—
1	EA	82855	60468 5/8" SWAGING PUNCH	—
1	EA	82856	60469 3/4" SWAGING PUNCH	—
1	EA	82857	60470 7/8" SWAGING PUNCH	—



## Flaring Tools



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82050	945-TH FLAIR BURNISHING TOOL	—



## Flaring Tools



60210



60250



60270



60440



60665

### 60210

- Hardened steel flaring bar to resist tube slippage
- Forged steel yoke that slips over bar and locks with a turn
- Precision threaded feed screw and long handle to insure smooth and easy operation

### 60250

- 45° flaring tool for 1/8" to 3/4" O.D.

### 60270

- Multi-faceted cone rolls a precise flare and simultaneously polishes it on brass, copper and aluminum.

### 60440

- This combination tool both flares and swages soft or annealed copper and similar materials.

### 60665

- Pinches off and rerounds 1/4", 5/16", 3/8", and 1/2" copper.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82859	60210 45 DEG FLARING TOOL	—
1	EA	82871	60250 FLARING & CUTTING KIT	—
1	EA	82863	60270 FLARE/BURNISH TOOL	—
1	EA	82874	60440 3/16 IN TO 3/4 IN O.D. FLARE/SWAGE KIT	—
1	EA	82867	60665 BAR STYLE PINCH OFF & REBOUND TOOL	—

# DIVERSITECH Tube Cleaning Brush



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82273	B-925 3/8 OD BRUSH	—
1	EA	82274	B-926 1/2 OD BRUSH	—
1	EA	82275	B-927 5/8 OD BRUSH	—
1	EA	82276	B-928 3/4 OD BRUSH	—
1	EA	82277	B-929 7/8 OD BRUSH	—
1	EA	82278	B-930 1 OD BRUSH	—
1	EA	82279	B-931 1 1/8 OD BRUSH	—

## TurboTorch® Air Acetylene Kits



### X-3B Kit

Will bronze braze light to medium gauge steel. Ideally suited for person requiring flexibility in work. Kit includes: AR-B regulator, AH-12 hose, G-4 quick disconnect handle, A-3 tip, and A-11 tip. Soft solders to 3". Silver solders to 1-5/8".

### X-4B Kit

Higher capacity kit brazes medium/heavy gauge steel. Kit includes AR-B (CGA 520) regulator, G-4 handle, AH-12 hose, A-5 tip, A-14 tip, "B" tank connection, and instruction manual. Soft solders to 3-1/2" and silver brazes to 2"

### X-6MC Kit

Will bronze braze light to medium gauge steel. Ideally suited for work requiring flexibility using a "MC" tank. Kit includes AR-MC regulator, AH-12 hose, G-4 handle with valve and quick disconnect, A-3 tip and A-8 tip. Soft solders to 2". Silver solders to 1".



### PL-8ADLX-B Kit with Rear Valve Handle

Kits now include gauge guard and cylinder wrench. Kit includes: AR-B regulator, G-4 quick disconnect handle, PL-8A tip, AH-12 hose, "B" tank connections, and instruction manual. Soft solders to 2". Silver solders to 1".

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82780	X-3B KIT B TANK	—
1	EA	82377	X-4B AIR/ACET TORCH KIT	—
1	EA	82781	X-6MC KIT MC TANK	—
1	EA	82773	PL-8ADLX-B KIT "B" TANK CONNECTION	—

## TurboTorch® Rolling Air Acetylene Kit

### Kit Includes

- Durable tote case
- PL-8A and A-3 tips
- G4 torch handle
- AR-B regulator
- AH-12 hose



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82761	TDLX2010B B TANK ROLLING TOTE KIT	—

## TurboTorch® Air Acetylene Tips



### A-3 Tip

Size of Flame: 1/4". For soft soldering 1/4" to 1", silver soldering 1/8" to 1/2". Uses 3.4 cubic feet of fuel/hour.

### A-5 Tip

Size of Flame: 5/16". For soft soldering 3/4" to 1-1/2", silver soldering 1/4" to 3/4". Uses 5.8 cubic feet of fuel/hour.

### A-8 Tip

Size of Flame: 3/8". For soft soldering 1" to 2", silver soldering 1/2" to 1". Uses 9.2 cubic feet of fuel/hour.

### A-11 Tip

Size of Flame: 7/16". For soft soldering 1-1/2" to 3", silver soldering 7/8" to 1-5/8". Uses 11.0 cubic feet of fuel/hour.

### A-14 Tip

Size of Flame: 1/2". For soft soldering 2" to 3-1/2", silver soldering 1" to 2". Uses 16.0 cubic feet of fuel/hour.

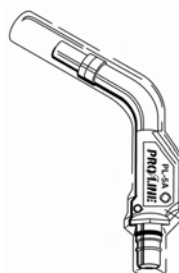


### Sof-Flame Tips™

Designed for excellent flame characteristics. Replaces old style "W" Series. Solid Brass Construction. Fits WA-400 torch handle.

### Pro-Line Tips

- Lights with push of button, no need for spark lighter.
- Tip swivels 360° for ease of positioning.
- Operates on Acetylene gas with no modifications.
- Patented swirl combustion resists flame blowout and delivers hottest, most efficient flame. Cuts brazing time by 30%.



### A Tips

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82782	A-3 1/4 IN TIP	—
1	EA	82783	A-5 5/16 IN TIP	—
1	EA	82784	A-8 3/8 IN TIP	—
1	EA	82785	A-11 7/16 IN TIP	—
1	EA	82786	A-14 1/2 IN TIP	—

### Sof-Flame™ Tips

1	EA	82435	S-4 TORCH STEM	—
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### Pro-Line Tips

1	EA	82822	PL-5A ACETYLENE TIP	—
1	EA	82823	PL-8A ACETYLENE TIP	—
1	EA	82824	PL-12A ACETYLENE TIP	—

**TurboTorch® Air Acetylene Accessories**



AR-B

**AR-B Pressure Regulator**

Locked at 14 p.s.i., contents gauge. Fits "B" tank and 3/8" -24 L.H. hose nut.

**AR-MC Pressure Regulator**

Locked at 14 p.s.i., contents gauge. Fits "MC" tank and 3/8" -24 L.H. hose nut.

**G-4 Handle**

Has valve and quick disconnect. Fits A-2 through A-32 acetylene tips.

**WA-400 Handle**

"A" Size 3/8" 24 LH hose threads which are interchangeable with other brands of equipment. Requires no tools for tip change. Tips can be locked in any position. Stainless steel ball valve for added durability. Replaceable O-ring seal for safety. Accepts Snappy Adapter.



G-4



WA-400



S-A

**S-A Snappy Adapter**

Screws into any standard handle adapting it to accept TurboTorch tips. Provides the advantages of Turbo Torch at the lower cost.

**AH-12 Acetylene Hose**

3/16" I.D. with 3/8" 24-thread LH nuts. Fits G4 and PLF-A handle, AR-B (CGA-520) and AR-MC (CGA-200) regulators. AH-12, 12 ft. (3.6m) hose.

**Regulators**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82787	AR-B B PRESS REG	—
1	EA	82788	AR-MC MC PRESS REG	—
1	EA	82817	AG-1 FUEL GAUGE F/PRESS REGS	—

**Handles and Adaptors**

1	EA	82420	WA-400 FLAME HANDLE	—
1	EA	82422	B-MC B TO MC ADAPTOR	—
1	EA	82424	BTMCR MC TO B ADAPTOR	—
1	EA	82790	G-4 HANDLE	—
1	EA	82791	S-A SNAPPY ADAPTOR	—

**Hose**

1	EA	82355	AH-12 12 FT ACETYLENE HOSE	—
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## **TurboTorch® Oxygen Acetylene Welding, Cutting, and Brazing Kits**



**CST-150**

### **CST-150 Complete Oxy-Fuel Kit Includes**

- SKR-540R oxygen regulator
- SKR-200R fuel regulator
- 252-03P 3/16" x 12.5 ft. dual "A" hose
- Goggles
- Striker
- Check valves
- 0-W-J nozzle
- 2-W-J nozzle
- SKH-7A handle



**CST-P**

### **CST-150C Complete Oxy-Fuel Kit with Cutting Attachments Includes**

- SKR-540R oxygen regulator
- SKR-200R acetylene regulator
- 252-03P 3/16" x 12.5 ft. dual hose
- Goggles
- Striker
- Check valves
- 0-W-J nozzle
- 2-W-J nozzle
- SKH-7A handle
- 0-3-101 cutting tip
- SLCA1260 cutting attachment

### **CST-P Portable Oxy-Fuel Kits Include**

- SKR-540R oxygen regulator
- SKR-200R fuel regulator
- 252-03P 12-1/2 ft. Dual "A" 3/16" hose
- Goggles
- Striker
- Check valves
- 0-W-J nozzle
- 2-W-J nozzle
- SKH-7A handle
- 1421-0084 case

### **CST-CP Portable Oxy-Fuel Kits with Cutting Attachments Include**

- SKR-540R oxygen regulator
- SKR-200R fuel regulator
- 252-03P 12-1/2 ft. Dual "A" 3/16" hose
- Goggles
- Striker
- Check valves
- 0-W-J nozzle
- 2-W-J nozzle
- SKH-7A handle
- 0-3-101 cutting tip
- SLCA1260 cutting attachment
- 1421-0084 case

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82770	CST-150 OXY-FUEL EQUIPMENT ONLY	—
1	EA	82769	CST-150C OXY FUEL EQUIPMENT ONLY	—
1	EA	82768	CST-CP OXY-FUEL TOTE W/O TANK	—
1	EA	82767	CST-P OXY FUEL TOTE W/O TANK	—
1	EA	82765	CUTSKILL TOTE	—

## **TurboTorch® Oxygen Acetylene Cutting and Brazing Kit**



### **TTV-100-CP Kit Includes**

- 101-01FP handle "B" to "A" adapter
- 151-01FP cutting attachment
- 0-W-1, 2-W-1 welding nozzles
- 1-3-101 cutting tip
- 221-05FP oxygen regulator
- 201-05FP fuel regulator
- 252-03P 12-1/2 ft. dual "A" 3/16" hose
- Glasses
- Striker
- 0386-1241 tote case
- VMA-1-15 heating tip

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82763	TTV-100-CP ACETYLENE KIT W/O TANK	—

## **TurboTorch® Oxygen Acetylene Tip**



For complete heat distribution. Model WST-2 brazes 5/8" to 1-1/8".

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82762	WST-2 WRAPPER TIP	—

**TurboTorch® Oxygen Acetylene Accessories**



201-05FP



3-W-J

**Regulators**

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82820	201-05FP ACETYLENE REG	—
1	EA	82821	221-05FP OXYGEN REG	—

**Welding Nozzles and Mixers**

1	EA	86181	3-W-J SIZE 3 WELDING NOZZLE & MIXER	—
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**Hose**

1	EA	82357	252-03P 12 1/2 FT TWIN LINE HOSE	—
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**TurboTorch® Torch Shield**

- Durable Fabric: 8 x 12 inches
- Re-useable: Will not melt or burn
- Multi-Use: Ideal for brazing, soldering or welding
- Safe to use: No toxic smoke, made of non-asbestos, non-ceramic materials



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82358	PL-812 8"X12" TORCH SHIELD	—

**TurboTorch® Nitrogen Purging Kit**

Kit includes 40 cu. ft. nitrogen cylinder, durable 6 ft. hose, OSHA rated blow gun, regulator SKP-425, and carrying tote.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82772	SKP-40T PURGING KIT	—

**TurboTorch® Nitrogen Flowmeter**

The NFM-TT Nitrogen Flowmeter allows for a controlled flow of nitrogen gas through copper lines during brazing. Purging the line with nitrogen prevents oxidation and scale inside the tube which would otherwise cause contamination.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82760	NFM-TT NITROGEN FLOW METER	—

## ○ TurboTorch® Nitrogen Regulators

For nitrogen purging and joint testing. Caution: Always use hose and fitting suitable to pressure.

High Pressure	Low Pressure	Delivery Pressure	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4000	400	250	1	EA	82818	245-02P 250PSI PURGING REGULATOR	—
4000	600	250	1	EA	82819	245-03P 500PSI PURGING REGULATOR	—

## ○ TurboTorch® Propane and MAPP Hand Torches



**STK-9**  
Dual Gas Kit contains STK-R pressure regulator and ST-3 large tip.



**STK-11 Double Barrel Hand Torch**  
Silver brazes up to 3", soft solders up to 6", designed for MAPP or Propane. Three year replacement warranty.



**TX-500**  
Includes TX-504 plus bonus 503 tip. Swirl tip concentrates heat and reduces heating time. Diaphragm regulator provides high gas flow for maximum temperatures.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82806	STK-9 HAND TORCH	—
1	EA	82774	STK-11 HAND TORCH	—
1	EA	82812	TX-500 PRO-PAK SELF LIGHT HAND TORCH	—

## ○ TurboTorch® Swirl Propane and MAPP Tips



Tip No.	For Use With Kits	Tip Size (In.)	Propane Gas		Mapp Gas	
			Soft Solder (In.)	Silver Solder (In.)	Soft Solder (In.)	Silver Solder (In.)
T-4	LP-1, LP-3	1/2	3/8-1-1/2	1/4-5/8	3/8-2-1/2	1/4-1-3/8
T-5	LP-2	3/4	1-1/2-2-1/2	5/8-1-3/8	1-4	5/8-2-1/8

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82794	T-4 1/2 IN TIP	—
1	EA	82795	T-5 3/4 IN TIP	—

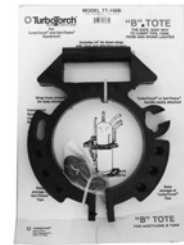
**TurboTorch® Welding Accessories**



L-1



TK



TT-150



TT-MC

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PKG	82395	F-1 BOX OF 5 FLINTS FOR STRIKER	—
1	EA	82360	L-1 STRIKER	—
1	EA	82375	TK TANK WRENCH	—
1	EA	82814	TT-150 B TANK TOTE	—
1	EA	82419	TT-MC TANK TOTE MC TANK	—



**Extend-A-Match**

For relighting pilots, gas ranges, barbecues, etc.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	82280	R-1 EXTEND-A-MATCH	—



**MAPP and Propane Gas**



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
12	EA	82150	525-PT1 PROPANE FUEL TANK	—	—
12	EA	82810	525-MT1 MAPP GAS TANK	—	—

**Welding Gases**

"Tanks Only" will be written up for all gas transactions and adjusted on the ticket when a tank is returned. All gas tanks are purchased outright, they are the property of the customer and may be returned for exchange purposes. They are not returnable to the factory for credit.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82385	80 NITROGEN STEEL TANK ONLY	—
1	EA	82393	B ACETYLENE TANK ONLY	—
1	EA	82371	CD 10LB CO2 TANK ONLY	—
1	EA	82373	CD 20LB CO2 STEEL TANK ONLY	—
1	EA	82394	MC ACETYLENE TANK ONLY	—
1	EA	82383	NI 40LB CF NIY NITROGEN TANK ONLY	—
1	EA	82368	NI 80 ALUMINUM TANK ONLY	—
1	EA	82399	R20 OXYGEN TANK ONLY	—
1	EA	82400	R20 NITROGEN TANK ONLY	—





## Rhino Tank and Compressor Tote



This device allows technicians to easily pick up any hermetic compressor or nitrogen, and CO2 cylinders. Its comfortable grip balances the cylinder or compressor and avoids accidental dropping and busted knuckles.

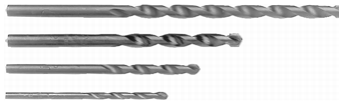
STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	81287	RH-10 RHINO TANK/COMPRESSOR TOTE	—



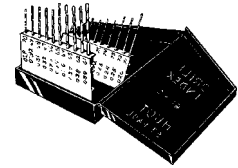
## Drill Bits



DE



RP



FJ-61-80

### Dual End Drill Bits With 135° Split Points

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	PKG	81007	DE1/4 DUAL END DRILL BIT 12/PKG	—
12	PKG	81008	DE1/8 DUAL END DRILL BIT 12/PKG	—
12	PKG	81014	DE-#30 DUAL END DRILL BIT 12/PKG	—

### Masonry Bits

1	EA	81030	RP-04 3/16 MASONARY DRILL BIT	—
1	EA	81031	RP-09 1/4 MASONARY DRILL BIT	—

### Orifice Drill Bits

1	EA	82550	FJ-61-80 ORIFICE DRILL SET	—
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## Power Bit Accessories



BHE6



MBH1/4

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	80910	BHE6 6" POWER BIT EXTENSION	—
1	EA	80919	BHE10 10" POWER BIT EXTENSION	—
1	EA	42810	MBH1/4 1/4" HEX BIT HOLDER	—
10	EA	42812	MBLP3 STD PHILLIPS HEX BIT #2	—



## Magnetic Drill Chucks and Hex Drivers



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
100	EA	42809	MSH1/4T 1/4" HEX CHUCK DRIVER - BULK	—
100	EA	42808	MSH5/16T 5/16" HEX CHUCK DRIVER - BULK	—
6	EA	42813	MSHML516 5/16" HEX CHUCK DRIVER 4"	—
6	EA	42814	MSHXL516 5/16" HEX CHUCK DRIVER 6"	—
6	EA	42815	MSHML1/4 4 IN LONG DRILL CHUCK	—
6	EA	42816	MSHXL1/4 6 IN LONG DRILL CHUCK	—
10	EA	42819	MSH-3/8 MAGNETIC DRILL CHUCK	—
5	EA	42817	MSHL7/16 7/16" LONG MAG DRILL CHUCK	—
6	EA	80775	HHD1 1/4" HEX DRIVER MAG - LONG	—
6	EA	80776	HHD2 5/16" HEX DRIVER MAG - LONG	—
1	EA	80769	CONNEXT3 LONG RATCHETING HANDLE	—
1	EA	80770	CONNEXT4 9 PIECE MAGNETIC HEX HAND DRIVER KIT	—



## 11 in 1 Multi-Tip Screwdriver



The 48-22-2113 screwdriver has a patented ECX™ bit and hareded tips. The 11 in 1 screwdriver includes the 6 bits and 3 nut drivers most requested by professionals with the added utility of a wire stripper and wire bending hole. The Milwaukee ECX™ bit allows users to extend the life of their bits when fastening specialty screws found in electrical boxes, conduit couplers, outlets, and other common job site fixtures.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	81111	48-22-2113 11 AND 1 MULTI TIP SCREWDRIVER	—



## SR6N1 Ratchet Screwdriver



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80767	SR6N1 RATCHET 6 IN 1 SCREWDRIVER	—



## Screwdrivers and Nut Drivers



### Screwdriver/Nut Driver

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83626	32527 11-IN-1 SCREWDRIVER/NUT DRIVER	—
1	EA	83657	32534 10 FOLD SCREW/NUT DRIVER SCHRADER VALVE CORE TOOL	—
1	EA	83646	32557 HEAVY DUTY MULTI TIP SCREWDRIVER/NUT DRIVER	—
1	EA	83647	32558 HEAVY DUTY RATCHETING MULTI TIP SCREWDRIVER/NUTDRVER	—
1	EA	83648	32559 EXTENDED REACH MULTI TIP SCREWDRIVER/NUT DRIVER	—
1	EA	83649	32561 STUBBY MULTI BIT SCREWDRIVER/NUT DRIVER	—

### Screwdrivers

1	EA	83620	32510 NON-RATCH SCREWDRVR W/32PC BIT	—
1	EA	83630	600-4 1/4 IN KEYSTONE TIP SCREWDRIVER 4" HD SQUARE SHANK	—
1	EA	83631	601-6 3/16IN CABINET TIP SCREWDRIVER 6IN ROUND SHANK	—
1	EA	83632	603-4 #2 PHILLIPS TIP SCREWDRIVER 4IN ROUND SHANK	—
1	EA	83619	85484 4-PC MINI CUSH GRIP SCREWDRIVER SET	—

### Screw Holding Screwdrivers

1	EA	83643	32215 1/4IN SLOTTED SCREW-HOLDING SCREWDRIVER	—
1	EA	83644	32216 #2 PHILLIPS SCREW-HOLDING SCREWDRIVER	—

### Terminal Block Screwdriver

1	EA	83645	612-4 TERMINAL BLOCK SCREWDRIVER	—
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### Nut Drivers

1	EA	83625	610-1/4M 1/4X1 1/2 HOLLOW SHAFT NUT DRIVER-MAG STUB CUSH GRIP	—
1	EA	83624	610-5/16M 5/16X1 1/2 HOLLOW SHAFT NUT DRIVER-MAG STUB CUSH GRIP	—
1	EA	83621	610M 2-PC NUT DRVR SET-MAG STUB CUSH GRP	—
1	EA	83614	632 DRIVE-A-MATIC NUT DRIVER W/CUSH GRIP	—
1	EA	83622	646-5/16M 5/16X6 HOLLOW SHAFT NUT DRIVER-MAGNETIC CUSH GRIP	—
1	EA	83623	646-1/4M 1/4X6 HOLLOW SHAFT NUT DRIVER-MAGNETIC CUSH GRIP	—
1	EA	83627	646M 2-PIECE CUSHION GRIP MAGNETIC TIP NUT DRIVER SET	—

### Demolition Drivers

1	EA	83659	602-4DD 4 IN DEMOLITION DRIVER	—
1	EA	83660	602-7DD 7 IN DEMOLITION DRIVER	—



## Nut Drivers



### Nut Drivers with Hollow Shaft

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80693	CHD2 1/4 INCH HOLLOW NUT DRIVER	—
1	EA	80694	CHD4 5/16 INCH HOLLOW NUT DRIVER	—
1	EA	80695	CHD6 3/8 INCH HOLLOW NUT DRIVER	—

### Stubby Magnetic Hex Drivers

1	EA	80696	HDD1T 1/4 INCH STUBBY MAGNETIC HEX DRIVER	—
1	EA	80697	HDD2T 5/16 INCH STUBBY MAGNETIC HEX DRIVER	—
1	EA	80699	HDD3T 3/8 INCH STUBBY MAGNETIC HEX DRIVER	—



## Hex Wrenches



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
10	EA	80824	RRW3/16 3/16 HEX KEY WRENCH INSERT (DUAL)	—
10	EA	80826	RRW5/16 5/16 HEX KEY WRENCH INSERT	—
10	EA	83302	W1-9 HEX KEY	—
1	SET	83303	W-6 HEX KEY SET	—



## Reversible Ratchet Box Wrenches



60612: 7" long; 3/16" & 1/4" sq. x 1/2" x 9/16" hex  
 60613: 5-5/8" long; 3/16" & 5/16" sq. x 1/4" & 3/8" sq.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80798	60612 REV RATCHET BOX WRENCH	—
1	EA	80799	60613 REV RATCHET BOX WRENCH	—



## QL Tool Kit For QL Valve Systems

Two hex drive adapters (3/16" and 5/16") fit standard refrigeration ratchet wrenches to help install QL systems.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	94157	053983-00 QL STEM TOOL KIT	—



### Hex Key Adapter

3/16" and 5/16" Hex Valve Key Adapter for accessing liquid and suction based valves. Heat treated black oxide plated.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83172	T2-HKA HEX KEY ADAPTER	—



### Wrenches



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83155	RT70159 10IN ALUMINUM PIPE WRENCH	—
1	EA	83156	RT70160 14IN ALUMINUM PIPE WRENCH	—
1	EA	83158	RT70161 18IN ALUMINUM PIPE WRENCH	—
1	EA	83160	RT70162 24IN ALUMINUM PIPE WRENCH	—



### Wrenches



D507-6



D507-12

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83616	D507-6 6" EXTRA CAPACITY ADJ WRENCH	—
1	EA	83617	D507-12 12" EXTRA CAPACITY ADJ WRENCH	—



### Journeyman Series Pliers



J203-6



J203-8



J502-10



J2000-9NE



J2000-48

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83603	J203-6 JOURNEYMAN STD SIDE CUT LONG NOSE PLIER	—
1	EA	83602	J203-8 JOURNEYMAN HD SIDE-CUT LONG NOSE PLIER	—
1	EA	83604	J502-10 JOURNEYMAN PUMP PLIER	—
1	EA	83600	J2000-9NE JOURNEYMAN HI-LEVERAGE SIDE CUT PLIER	—
1	EA	83601	J2000-48 JOURNEYMAN HI-LEVERAGE DIAG CUT PLIER	—



**Pliers**



DC-6G



MT-10

Type	Overall Length (In.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
Diagonal Cutting	6	6	EA	82085	DC-6G DIAGONAL CUTTING PLIER	—
Super Grove Joint	10, 12	6	EA	82076	MT-10 MULTI-TRACK PLIER	—



**Strippers, Cutters, and Crimpers**



1010



11005



11046



J1005

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83605	1010 LONG NOSE MULTI PURPOSE TOOL	—
1	EA	83606	11055 KURVE WIRE STRIPPER-CUTTER	—
1	EA	83607	J1005 JOURNEYMAN CRIMPING TOOL	—
1	EA	83608	11046 WIRE STRIPPER-CUTTER	—



**Clamp Tools**



The TY4G manual cut-off tensioning tool features a unique notched gripper. Includes gray vinyl cushion grips. Works on all ties including thin designs.



The TY6 adjustable, high leverage tensioning tool with automatic cut-off is designed for a heavy user of nylon ties. Works on all ties including thin designs.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	42950	TY4G MANUAL CUT-OFF TIE TOOL/GRIP'D	—
3	EA	42951	TY6 HIGH LEVERAGE TIE TOOL	—

# BOSTITCH® Tackers and Staplers



## PC4000-OC2 Outward Clinch Tacker

- Easy squeeze design.
- Compact, lightweight.
- Convenient bottom load.
- Unique design turns staple legs outward.
- Drives 1/2" and 9/16" Bostitch PowerCrown™ staples.
- For pipe wrap, duct board, and corrugated.



## P6C-8 Plier Stapler

Powerful hand stapling pliers, for easy, positive action. Cam operation provides leverage and dependable driving power. Operates easily on thick work.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
10	BOX	43951	73347 STCR5019 3/8 IN STAPLES	—	—
6	EA	43964	73349 PC4000-OC2 BOSTITCH TACKER	—	—
10	BOX	43958	73350 STCR5019 1/2 IN STAPLES	—	—
10	BOX	43969	73351 STCR5019 9/16 IN STAPLES	—	—
24	EA	43944	73352 P6C-8 BOSTITCH PLIER STAPLER	—	—
20	BOX	43971	73353 STH5019 3/8 IN STAPLES	—	—



# Utility Knives



## 48-22-1901

- One handed blade opening
- Tool free blade change
- Wire stripper
- Integrated gut hook
- Thin body design



## 48-22-1910

- Tool free blade change
- Side slide blade activation
- Wire stripper
- Blade storage
- Rubber over mold grip

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	81110	48-22-1901 FASTBACK FLIP UTILITY KNIFE	—
6	EA	81109	48-22-1910 SIDE SLIDE UTILITY KNIFE	—



# Serrated Duct Knife



- Cuts duct board and flexible duct
- Double-edged knife-regular and serrated
- Puncture resistant nylon sheath with belt loop
- Cushion-grip handle for comfort

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83628	DK06 SERRATED DUCT KNIFE WITH SHEATH	—

## Fin Straightening Tools



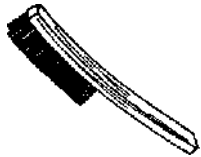
FST



Fin Comb

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	82070	FST FIN STRAIGHTENING TOOL	—
12	EA	80720	T-300 FIN / COMB SCRAPING TOOL ADJ	—
6	EA	95315	T-408 FIN COMB	—
6	EA	95316	T-409 FIN COMB	—
6	EA	95317	T-411 FIN COMB	—
6	EA	95318	T-412 FIN COMB	—
6	EA	95319	T-417 FIN COMB	—
6	EA	95320	T-418 FIN COMB	—

## Brushes



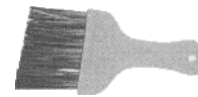
AMA010



AMA226



AMA816



B-26



C33808

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82266	AMA-010 WIRE BRUSH	—
1	EA	82270	AMA226 3IN SPIRAL THREAD BRUSH	—
1	EA	82271	AMA548 5FT FCE BRUSH HANDLE	—
1	EA	82267	AMA-816 WIRE BRUSH	—
12	EA	82260	B-26 CONDENSER FIN BRUSH	—
144	EA	55134	C33808-CTN 1/2" FLUX BRUSH	—
24	EA	80723	78903 2 IN ECONOMY PAINT BRUSH	—
12	EA	82261	78952 / 9234 RADIATOR BRUSH	—



## TB1 Tool Bag



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80580	TB1 SOFT SIDED TOOL BAG	—





## Tool Tote

- Constructed of rugged, 600 x 300 denier polyester to resist wear and tear on the jobsite.
- 2" wide, 900 pound test, polypropylene padded carrying handles with comfortable leather wrap.
- Water-resistant to avoid the build-up of mold and mildew.
- Exterior pockets hold a variety of tools and a mobile phone.
- Multiple interior pockets.
- Durable molded bottom with drain holes.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83618	58888 TOOL TOTE-12 POCKET W/STRAP	—



## M12 Tool Holster

Designed to fit M12™ drilling and fastening tools, the M12™ Tool Holster increases productivity and provides the user with a quick and durable means of tool retrieval and protection on the job site. Constructed of heavy duty nylon material, the 2335-20 features an easy snap-on strap and on-board bit storage for added user convenience.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81075	2335-20 M12 TOOL HOLSTER	—



## Contractor Accessory Bag

- Tough, water resistant 600 denier material
- Shoulder strap or dual handle straps for easy carrying
- Durable zipper closure
- Ideal for tool and accessory storage



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80241	48-55-3490 CONTRACTOR ACCESSORY BAG	—



## Measuring Instruments



T425M



L5



L-9M

### Rulers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80671	48BS 4 FT MALCO TINNERS RULE	—

### Tapes and Replacement Blades

12	EA	80676	T425M 1"X 25FT MAGNETIC TIP TAPE MEASURE	—
6	EA	80681	T425R MALCO REPL BLADE	—
6	EA	80682	T212R MALCO REPL BLADE	—
6	EA	80683	T316R MALCO REPL BLADE	—
6	EA	80684	T312R MALCO REPL BLADE	—

### Levels

10	EA	80651	L5 5" POCKET LEVEL	—
6	EA	80650	L-9M MAGNETIC TORPEDO LEVEL	—



## Tape Measure



- Double sided rule for measurement while using against wall, ceiling or conduit
- Shock and impact resistant case
- True Zero feature for accurate inside and outside measuring
- First 11" (279mm) has oversized bold numbers

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	83650	93225 25 FT MAGNETIC DOUBLE HOOK TAPE MEASURE	—

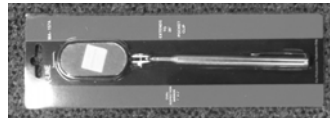


## Telescoping Glass Mirrors



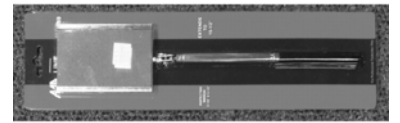
### MA-143A

- Telescopes from 7" to 19"
- Pocket Clip
- Insulated head



### MA-149

- Telescopes from 11" to 15-1/2"



### MA-157A

- Telescopes from 7" to 19"
- Pocket clip
- Insulated head

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	54025	MA-143A 1-1/4 IN ROUND INSPECTION MIRROR	—
1	EA	54027	MA-157A 1 IN X 2 IN OVAL MIRROR	—
1	EA	54028	MA-149 2-1/8IN X 3-1/2IN RECTANGULAR MIRROR	—



**Mirrors**



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	82281	79352 / 9063 1X2 OVAL EXTEND-A-MIRROR	—



**Rubber Tie Downs**



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
100	EA	82251	79590 / 0173 14IN RUBBER TIE-DOWN	—
48	EA	82252	79591 / 0174 19IN RUBBER TIE-DOWN	—
24	EA	82253	79593 / 0175 35IN RUBBER TIE-DOWN	—



**Shoe Cover**



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	BOX	46000	79100 BLUE SHOE COVER (300EA/150 PAIRS)	—



**Quality Work Gloves**

79151/16766: 9 oz. brown cloth glove.  
 79153/17158: Brown cloth glove with flannel lining.  
 79159/16770: Superior top pig grain unlined driver's glove.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	PR	83375	79151 / 16766 BROWN JERSEY GLOVE	—
12	PR	83376	79153 / 17158 RED LINED JERSEY GLOVE	—
12	PR	83371	79159 / 16770 UNLINED DRIVERS GLOVE	—



**Work Gloves**

- Clarino™ palm with exclusive Suregrip synthetic patches
- Padded knuckle panel
- Easy entry neoprene cuff with secure wrist closure
- Breathable diamond spandex back
- Terry cloth thumb panel for sweat removal
- Machine washable



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	PR	80492	49-17-0132 L WORK GLOVES	—
12	PR	80493	49-17-0133 XL WORK GLOVE	—

# ESP Sprayers



### Acid Blaster

This premium two gallon compression sprayer incorporates a patented acid valve and utilizes viton gaskets that are chemical resistant. There are no metal parts that contact liquid. Unit has stainless pump rod and plate. The nozzle has adjustable spray levels.



### Big Shot III

This three gallon, acid resistant sprayer incorporates viton and polypropylene parts to minimize nuisance breakdowns and leakage. The wide angle, high delivery spray head provides quick application time.



### Tommy Gun

This two quart compression sprayer is made out of high pressure impact polyethylene. Equipped with adjustable spray nozzle, the Tommy Gun is lightweight and easy to use.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81281	AB10 2 GAL SPRAYER (ACID BLASTER)	—
1	EA	81282	BS30 3 GAL SPRAYER (BIG SHOT)	—
1	EA	81280	TG007 1/2 GAL SPRAYER (TOMMY GUN)	—
1	EA	81283	60T SPINDLE ASSY F/TOMMY GUN	—

# Nu-Calgon Sprayers



4300-51

### 4300-51

The Flush gun connects to the charging hose. It is equipped with a rubber flush tool and makes flushing easy.



4768-W3

### 4768-W3

A 24-ounce capacity sprayer. It is used for small cleaning jobs, such as window units and water coolers.



4770-0

### 4770-0

The 4770-0 is constructed of high density polyethylene. It has a half gallon capacity. The nozzle is adjustable and the flow rate is controlled by a thumb lever. It comes with a 7 inch polyethylene pump.



4771-3

### 4771-3

The 4771-3 is constructed of high-density polyethylene. It has a funnel top which provides for easy chemical pouring and has a 2-1/2 gallon capacity. It comes with a 10 inch polypropylene pump, handle, 12 inch tube with adjustable nozzle and a 3 foot hose.



4774-0

### 4774-0

The 4774-0 features a "hose-end" sprayer that features 4 different mix ratio settings designed for coil cleaners. Utilizes a 2-quart capacity bottle and includes a foam wand as well as quick disconnect capability.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	90197	4300-51 RX11 FLUSH GUN	—
12	EA	96199	4768-W3 PINT MULTI PURPOSE HAND SPRAYER	—
1	EA	95958	4770-0 1/2 GAL CAPACITY NO. 50P POLY SPRAYER	—
1	EA	95959	4771-3 2 GAL CAPACITY NO. 220CP POLY SPRAYER	—
1	EA	90173	4774-0 COIL GUN	—



## The Sidekick Condenser Cleaning Tool



- Rugged commercial quality 30 inch long American made tool.
- Precision formed and machined of thick wall aluminum tubing, with a flow control on-off valve.
- One-year warranty.
- Only tool designed and patented (U.S. #4,600,153 and Canada #1257456) specifically to clean air conditioning condensing units.
- Unique power sprayer that attaches to a regular garden hose.
- Develops over four times the cleaning power of a standard nozzle because of its 13 parallel jet streams of water.
- Delivers a powerful, accurate, but gentle flow that easily flushes line, hair, dirt, grass clippings, cottonwood fuzzies, and other impurities from the coil.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82282	MA-0230 THE SIDEKICK CONDENSER CLEANING TOOL	—



## Nu-Calgon Acid Pump

Compact submersible pump designed for circulating strong acids and cleaning solutions. All parts are constructed of acid-resistant materials. Motor is protected by thermal overload that stops the pump if temperature exceeds 140° F.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	90174	4603-0 31-TX1 ACID PUMP	—



## Gallo Gun



The Gallo Gun clears condensate drains with a SWOOSH! It is a lightweight 3 oz. portable tool designed to blow out drain lines instantly. Simply insert a SWOOSH CO2 cartridge into the Gallo Gun and with a press of the trigger, 800 PSI of oil free food grade air clears the line.

Each unit comes equipped with a tapered fitting to work on 3/8" drain openings. Flexible hose assembly enables you to maneuver through cabinets, coils and hard to reach drains. Cartridges are safe for the environment and recyclable. No need to carry air or nitrogen tanks. Saves time on service calls and reduces labor costs.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
6	EA	97800	GG-1 GALLO GUN	—
12	PKG	97801	GGC-12 CO2 CARTRIDGES	—



## Heavy Duty Vacuum Cleaner Accessories

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	PKG	80113	49-90-0305 PAPER FILTER BAGS 3/PKG	—



## 18V Wet/Dry Cordless Vacuum



- Works on all Milwaukee 18V slide-on batteries, Li-ion or NiCd
- Powerful motor to provide strong suction and air flow
- Tool box style for easy transport and storage
- On-board accessory and hose storage
- Built-in blower port
- Reusable wet/dry filter ideal for both wet and dry applications HEPA rated high efficient filter

**Voltage:** 18DC  
**Material:** Wet/dry  
**Capacity:** 2 gallons  
**Max air flow:** 45 cu. ft./min.  
**Sealed suction in water:** 32 in.  
**Height:** 11.5 in.  
**Width:** 19 in.  
**Depth:** 8.5 in.  
**Tool weight:** 9.4 lbs.  
**Shipping weight:** 13.5 lbs.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80557	0880-20 18V CORDLESS VACUUM	—

## SUMNER Contractor Lifts



- 2210**
- 300 lb. capacity
  - 10 ft. height



- 783651/783652**
- 18' or 24' heights.
  - 650 lb. capacity.
  - Safety brake optional.
  - Fork extensions are optional.
  - New base design.
  - New mast design.
  - New hold down latching system.



- 784750**
- 400 lb. lifting capacity
  - 12 ft. height

Capacity (Lbs.)	Extension (Ft.)	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
300	10	1	EA	80809	2210 LIL HOISTER LIFT	—
650	18	1	EA	80008	783651 18FT/650LBS 2118 CONTRACTOR LIFT	—
650	24	1	EA	80009	783652 24FT/650LBS 2124 CONTRACTOR LIFT	—
400	12	1	EA	80808	784750 12FT/400LB 2412 CONTRACTOR LIFT	—



## MA-FB2 Hub Puller Fan Blade Puller

Use the MA-FB2 to pull off fan blades and blower wheels. It is made of long lasting heavy steel construction. Bar top for easy gripping with a wrench. Made of hardened steel to remove fan blades with inaccessible hubs.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	54029	MA-FB2 HEAVY DUTY HUB PULLER	—



## Work Lights



### M12 49-24-0145 Work Light

- 90-degree pivoting head
- Ergonomic, compact, and lightweight design
- Integrated magnet



### M18 2735-20 LED Work Light

- Sealed, aluminum head is impact and weather resistant
- 160 lumen LED creates a bright, white smooth beam
- Lasts up to 12 hours on one charge
- Integrated tool allows hands-free use
- 135° rotating head
- Battery not included

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	80739	49-24-0145 M12 WORK LIGHT	—
1	EA	81118	2735-20 M18 LED WORKLIGHT	—
1	EA	81071	49-81-0020 14.4V WORK LIGHT BULB F/49-24-0145	—
2	PKG	80978	49-81-0040 V28 WORK LIGHT REPL BULB 2-PACK	—
6	EA	81073	49-81-0090 LED UPGRADE BULB	—



# Extension Cords and Lights



### Outdoor Ext Cords with Lighted End

- Resistant to oils, grease and chemicals.
- Abrasion resistance.
- Wide temp. range; still flexible at - 67° F.
- Flame retardant and water resistant.



### Tri-Source Extension Cord

- Water resistant and flame retardant.
- 3-way power blocks
- Flexible to -67° F
- Tear and puncture resistant.
- Environmentally safe with no ozone-depleting chemicals; completely recyclable.
- Lighted end



### Trouble Light

- Vinyl coated shield reduces heat and corrosion.
- Convenient hook for hands-free operation.
- One-piece molded handle is tougher and safer.
- Integral plug outlet and switch for added convenience.
- Polar/Solar® professional cord.



### Fluorescent Work Lights

- No bulky transformer plug.
- Female receptacle on handle.
- Heavy duty cord for power tools.
- Magnetic hanger (3' light only) and plastic holder included.
- Compact, angled design.
- Has collapsible swivel hook and plastic bulb guard.
- Fluorescent bulb is less fragile.



### Push-Lock Extension Cords

- Easy-to-use patented Push-Lock™ mechanism
- Ideal for lawn and power tools.
- Designed to work with most cords.
- Weather and water resistant.
- Suitable for indoor or outdoor use.



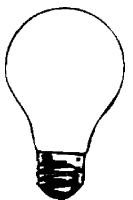
### Cord-O-Lite Temporary Light

- Heavy-duty.
- Includes plugs and connectors.
- Molded light sockets.
- Available with plated metal guards.
- Accommodates bulbs up to 150 watts.

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
4	EA	80740	02518-88-28 12/3 45 FT SJTW PUSH LOCK CORD	—
3	EA	80741	02519-88-28 12/3 90 FT SJTW PUSH LOCK CORD	—
6	EA	80743	03488-00-02 50 FT TRI-SOURCE LIGHTED	—
6	EA	80744	05658-88-02 50 FT TROUBLE LIGHT	—
6	EA	80745	05998-88-08 2 FT / 05998-89-04 ANGLE LIGHT	—
1	EA	80746	07538 50FT CORD-O-LITE TEMP LIGHT	—
12	EA	80747	01687-00-02 12/3X25 FT POLAR/SOLAR EXT CORD	—
6	EA	80748	01688-00-02 12/3X50 FT POLAR/SOLAR EXT CORD	—
4	EA	80749	01689-00-02 12/3X100 FT POLAR/SOLAR EXT CORD	—
6	EA	80751	05999-88-08 13W 16/3 15 FT FLUORESCENT ANGLE LITE/MAGNET	—
1	EA	80752	05933-88-00 13W U-SHAPED BULB F/05999	—



## Service Bulb



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 L/CTN	PC-2 F/CTN
24	EA	77050	79173 100 WATT ROUGH SVC BULB	—	—



**MA-LINE** Flashlights  
MONTI AND ASSOCIATES, INC.



MA-0620

MA-FL3

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	82262	MA-0620 LED FLASHLIGHT	—
1	EA	82263	MA-FL3 EXTENDABLE FLASHLIGHT	—

**RAYOVAC** Flashlights

Roughneck flashlight with 2 AA batteries.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	EA	81092	7-R2AA-B ROUGHNECK FLASHLIGHT	—

**RAYOVAC** Batteries

**Rayovac Alkaline Maximum™ Industrial Batteries**  
 Mercury and cadmium free—better for the environment.  
 Made in the U.S.A.



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
12	PKG	81080	7-ALC C ALK BATTERY 6/PKG	—
12	PKG	81081	7-ALD D ALK BATTERY 6/PKG	—
12	PKG	81082	7-ALAAA AAA ALK BATTERY 8/PKG	—
12	PKG	81083	7-ALAA AA ALK BATTERY 8/PKG	—
12	PKG	81084	7-AL9V 9VOLT ALK BATTERY 6/PKG	—
12	EA	81085	7-6VHD 6VOLT HEAVY DUTY BATTERY	—



## M12 M-Spector™ Digital Inspection Cameras



The digital inspection camera provides a crystal clear picture of tough to reach places such as inside pipes and drains, equipment and behind walls. With picture, audio and video capabilities, professionals can now inspect and document issues, download the information to their computer and send visual confirmation to a customer or supervisor for review. Optimal image quality and control is achieved via an exclusive Image Zoom feature and LED brightness control. Equipped with a durable, detachable, water-tight flexible cable and a small camera head, the Digital Inspection Camera fits through holes as small as 3/4" and gets into, under and around tight spaces.



### 2311-21

- Includes
- 12 V Lithium Ion Battery
- 12 V Charger
- Carrying Case
- Expandable, flexible camera cable
- USB Cable
- 2 GB Memory Card

### Features

- Integrated microphone and speaker
- LCD Display: 3.5"
- Camera Head Diameter: 0.7" (17mm)
- Adjustable Image Zoom: 4X
- LED Brightness: 4X
- Display Resolution: 320 x 240
- Auto Shut-Off Feature
- Run Time: 12 Hours
- Shipping Weight: 7.26 lbs



### 2313-21

- Includes
- M12 Red Lithium Battery
- 30 minute charger
- Carrying case
- Hook, magnet and mirror attachments

### Features

- LCD Display: 2.7" high-resolution color
- Image Sensor Pixel Density: 640 x 480
- Camera Head Diameter: .35" (9mm)
- LED Brightness: 4 LEDs, 5 settings
- Display Resolution: 320 x 240
- Shipping Weight: 5.7 lbs.

### Cameras

STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81019	2311-21 M12 CORDLESS MULTIMEDIA CAMERA KIT	—
1	EA	81127	2313-21 M12 M-SPECTOR 360 CAMERA	—

### Extension Cables

For Use With	STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
2310-21	1	EA	81076	48-53-0110 3FT DIGITAL CAMERA CABLE EXTENSION	—
2311-21	1	EA	81077	48-53-0141 3FT AV EXTENSION CABLE	—



## Job Site Radio

- Exclusive digital processor
- Premium weatherproof aluminum speakers
- Weather sealed MP3 compartment
- Shock absorbing ABS polymer housing
- Ultraslim size
- Powered by M12™ Lithium-ion battery packs or AC adaptor



STD PKG	U/M	BERCOR NUMBER	DESCRIPTION	PC-1 EACH
1	EA	81025	2590-20 M12 RADIO	—

