



Código : 915117 Motoc"DISCUS"-2DB3F25K0-TFD200-B22/502--

2DB3-0600-TFD

HCFC, R-22 ,Mid Point, 50 Hz, 3 - Phase, 380/420 V

Low Temperature

Estado de Producción: This model is obsolete and is no longer in production for both OEM and service replacement.

Rendimiento

Evap(°C)/Cond (°C)	-31.7/40.6	-40/40.6
RG(°C)/Líqu(°C)	18.3/40.6	18.3/40.6
Capacidad (Watts):	4850	2695
Potencia (Watts):	3420	2750
Corriente (Amps):	10.1	9.6
EER (COP):	1.41	0.97
Flujo de Masa(g/s):	27.8	15.4
Potencia del Sonido (dBA):	0 Ave 0 Max	
Vibración(mm(peak-peak)):	0 Ave 0 Max	

Mecánico

Número de Cilindros:	2	CIR (meters^3/hr):	0.555
Medida de Calibre (mm):	66.6	CFH (meters^3/hr):	27.93
Recorrida (mm):	45.9		
Lago Total (mm):	590.55	Largo (mm):	295.4
Ancho Total (mm):	392.18	Ancho (mm):	279.4
Altura Total (mm):	434.09	Altura (mm):	460.5*
Medida de Succión(in):	1 3/8	Sweat	
Medida de Descarga (in):	7/8	Sweat	
Carga Inicial de Aceite (liter):	2.37		
Recarga de Aceite (liter):	2.13		
Peso Neto (kg):	147.42		
HorsePower	4.5		
* Altura total del compresor sobre patas de montaje Copeland originales.			

Eléctrico

LRA-Alto*:	80.0	UL File No.:	SA-2337	Corriente Operativa Máx.(Amps):	
LRA-Bajo*:		UL File Date:	13-Jul-1988	MCC (Amps):	18.0
LRA-Medio Bobinado:		Archivo CSA No.:	LR3104C	RPM:	
RLA (=MCC/1.4; use for contactor selection):	12.9				
RLA (=MCC/1.56; use for breaker & wire size selection):	11.5				
*Baja y Alta, se refieren respectivamente, a los límites inferior y superior del rango de voltaje de trabajo para el cual el motor está aproba					

Aplicaciones Alternativas

Refrigerante	Frecuencia(Hz)	Fase	Voltaje	Aplicación
R-22 HCFC	60	3	460	Low Temperature
R-502 CFC	60	3	460	Low Temperature
R-502 CFC	50	3	380/420	Low Temperature

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Componentes Eléctricos

Estator

Resistencia: +-7%

Tensión entre fases: 1.674

Tensión de línea: 0.0

Protector térmico interno

N° de Parte 071-0429-05

Descripción de Uso:

Nombre del Vendedor:

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Condiciones operativas

18.3 C Return Gas
 0 K Subcooling
 35 C Ambient Air Over

50 Operación en Hz**LOW****TEMPERATURE**

Use only with Demand Cooling®
 Refer to AE 4-1287

2DB3-0600-TFD

COPELAMETIC® HCFC-22

DISCUS® COMPRESSOR

TFD 380/420-3-50

Condensing Temperature C**(Sat Dew Pt Pressure, bar)****Evaporating Temperature C (Sat Dew Pt Pressure, bar)**

	54	-40 (1)	-35 (1.3)	-30 (1.6)	-25 (2)	-20 (2.4)	-18 (2.6)
(21.3) C	1505	2500	3800	5500	7550	8550	
P	2560	3120	3680	4250	4850	5100	
A	9.5	9.9	10.5	11.1	11.8	12	
M	9.5	16	24.5	35.3	48.9	55.2	
E	0.59	0.8	1.04	1.29	1.56	1.67	
%	37.6	47	55	61.7	67.1	68.9	
50 C	1885	2950	4300	6000	8150	9100	
(19.4) P	2660	3160	3670	4200	4740	4970	
A	9.5	9.9	10.4	10.9	11.5	11.8	
M	11.6	18.1	26.6	37.4	50.9	57.1	
E	0.71	0.93	1.17	1.43	1.72	1.84	
%	42.6	50.6	57.5	63.3	68	69.6	
45 C	2330	3450	4900	6650	8850	9900	
(17.3) P	2720	3170	3620	4090	4580	4780	
A	9.6	9.9	10.3	10.8	11.3	11.5	
M	13.8	20.5	29	39.8	53.2	59.3	
E	0.86	1.09	1.35	1.63	1.94	2.06	
%	47.1	54.1	60.1	65.1	69	70.2	
40 C	2735	3950	5450	7300	9600	10650	
(15.3) P	2750	3140	3540	3960	4400	4580	
A	9.6	9.9	10.2	10.6	11	11.2	
M	15.6	22.5	31.1	42	55.3	61.4	
E	1	1.26	1.54	1.85	2.18	2.32	
%	50.2	56.7	62.1	66.5	69.6	70.6	
35 C	3100	4400	6000	7950	10300	11350	
(13.5) P	2730	3080	3440	3810	4200	4360	
A	9.6	9.8	10.1	10.4	10.8	11	
M	17	24.2	33	43.9	57.2	63.5	
E	1.13	1.43	1.74	2.08	2.45	2.61	
%	52.2	58.6	63.7	67.5	69.9	70.5	
30 C	3400	4800	6500	8550	11000	12100	
(11.9) P	2680	2980	3300	3640	3990	4140	
A	9.5	9.8	10	10.3	10.7	10.8	
M	18.1	25.5	34.6	45.6	59	65	
E	1.27	1.61	1.97	2.35	2.76	2.93	
%	53.2	59.9	64.7	68	69.7	69.9	
25 C	3650	5150	6950	9100	11700	12850	
(10.4) P	2600	2870	3160	3460	3780	3910	
A	9.5	9.7	9.9	10.2	10.5	10.6	
M	18.8	26.6	35.9	47.1	60.6	66.5	
E	1.41	1.8	2.21	2.64	3.09	3.28	
%	53.5	60.4	65.1	67.9	68.8	68.7	



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 REFRIGERACION S.A.
 Desde 1946

HCFC, R-22, Mid Point, 50 Hz, 3 - Fase, 380/420 V

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Partes de Servicio

Referencia	Componente	Cantidad	Descripción	Comentarios
1	020-0756-00	1	GASKET-CYLINDER HEAD	
2	998-1661-29	1	VALVE PLATE KIT	
3	020-0757-01	1	GASKET-VALVE PLATE	
4	020-0104-00	1	GASKET-HOUSING COVER	
5	020-0732-00	1	GASKET-OIL PUMP	2942708
6	998-0008-33	1	OIL PUMP KIT	WITH OIL PUMP BOLTSGASKETS& ADAPTER RING
7	510-0191-00	1	VALVE-SCHRADER TEE	INSTALLED IN OIL PUMP
8	020-0159-00	1	GASKET-BOTTOM PLATE	
9	003-0099-00	1	PLATE-BOTTOM	
10	998-0002-02	1	SIGHT GLASS KIT	
11	998-0513-03	1	OIL SCREEN KIT	
12	918-0028-01	1	HEATER-CC--100W/240V	WELD
12	918-0028-00	1	HEATER-CC--100W/120V	WELD
13	020-0012-11	1	GASKET-SERVICE VALVE	DISCHARGE
14	998-0510-12	1	SERV VALVE KIT 7/8 SWT	7/8SWT2 BOLTDISCHARGE
15	998-5100-00	1	SUCT & DISCH VALVE KIT	WITH VALVESGASKETS& BOLTS
16	020-0709-00	1	GASKET-STATOR COVER	
17	005-0650-03	1	COVER-STATOR	
18	020-0012-09	1	GASKET-SERVICE VALVE	2880908 SUCTION
19	998-0510-11	1	SERV VALVE KIT 1 3/8 SWT	1 3/8 SWT2 BOLTSUCTION
20	020-0146-00	1	GASKET-TERM MTG PLATE	
21	062-0058-00	1	BOX-TERMINAL	
22	005-0163-00	1	COVER-TERMINAL BOX	
24	521-0018-00	1	TERMINAL-FUSED CLUSTER	
25	020-0844-02	1	SEAL	FOR T CLUSTER 521-0018-00
27	998-0429-05	1	PROTECTOR & GASKET KIT	
28	998-0700-07	1	OIL CONTROL BRKT KIT	
30	527-0105-00	1	SPACER-MOUNTING ASSM	
34	510-0142-00	1	VALVE-OIL CHECK ASSM	2852661
36	998-1669-06	1	GASKET SET	
38	998-1000-12	1	DEMAND COOL KIT	120V/50/60 HZ
38	998-1001-13	1	DEMAND COOL 120V/50 HZ	
42	030-0187-00	1	SLEEVE-HEATER	REQUIRED WHEN USING CCH
43	020-0678-00	1	GASKET-CLOSURE PLATE	
44	020-0297-13	1	GASKET-SENTRONIC SENSOR	
45	020-0844-04	1	SEAL-SIGHT GLASS	2042028
46	585-1066-02	1	CONTROL-OIL PROTECT GP	

<u>Referencia</u>	<u>Componente</u>	<u>Cantidad</u>	<u>Descripción</u>	<u>Comentarios</u>
47	998-0162-00	1	SENTRONIC SENSOR KIT	
48	998-0283-02	1	KIT-CABLE	
49	998-1000-22	1	DEMAND COOLING KIT	240V 50/60 HZ
49	998-1001-23	1	DEMAND COOL 240V/ 50 HZ	
50	998-0513-04	1	SUCTION SCREEN KIT	
51	921-0227-00	1	CONNECTOR BLOCK KIT	
54	910-0352-00	1	DEMAND COOL VLV & COIL	COIL VOLTAGE 120V/50/60HZ
54	910-0352-01	1	DEMAND COOL VLV & COIL	COIL VOLTAGE 240V/50/60HZ

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Accesorios

Número de Pa	Descripción
006-0200-00	Spring. Internal, between the valve plate, & unloader piston. (Unloader Spring)
020-1004-00	Cover plate gasket 003-0021-00. When replacing standard model 9RC or 9RS with unloading added, replace with unloader models 9RP or 9RT.
023-0039-01	Coil, 120v, Alco - Demand cooling valve (Unloader Valve)
023-0039-02	Coil, 240v, Alco - Demand cooling valve (Unloader Valve)
023-0042-01	Solenoid Coil 120v, 50/60 Hz, Parker - Demand cooling valve
023-0042-02	Solenoid Coil 240v, 50/60 Hz, Parker - Demand cooling valve
024-0200-00	Fan Guard - Top, for Head Cooling Fan
030-0187-00	Heater Sleeve, well style - Order well separately
083-0118-00	Fan Blade - for Head Cooling Fan
085-0109-00	Temperature Probe-Standard 41" - Demand Cooling
085-0109-01	Temperature Probe-10 ft cable - Demand Cooling
085-0110-00	Control Module 120v 50/60 Hz - Demand Cooling
085-0110-01	Control Module 240v 50/60 Hz - Demand Cooling
085-0160-00	3 Phase Voltage Monitor. For use with all Copeland 3 Phase Compressors. Consult model family nomenclature for electrical definition in the model number.
510-0351-00	Demand Cooling Valve 50/60 Hz Alco
510-0352-00	Demand Cooling Valve & Coil, 120v, 50/60 Hz, Alco
510-0352-01	Demand Cooling Valve & Coil, 240v, 50/60 Hz Alco
585-1066-02	Sentronic Oil Pressure Control - Kit includes Sentronic oil pressure control, screws to mount control, oil pressure sensor, and sensor gaskets. Control mounting brackets are supplied on service replacement compressors.
918-0009-00	Crankcase Heater, 120v, 65w, bolt on. For usage on specific Copeland Copelametic & Discus Compressor except deep sump models. Includes crankcase heater, and reference drawings.
918-0009-01	Crankcase Heater, 240v, 65w, bolt on. For usage on specific Copeland Copelametic, & Discus Compressor except deep sump models. Includes crankcase heater, and reference drawings.
918-0009-02	Crankcase Heater, 480v, 65w, bolt on. For usage on specific Copeland Copelametic, & Discus Compressor except deep sump models. Includes crankcase heater, and reference drawings.
918-0009-03	Crankcase Heater, 600v, 65w, bolt on. For usage on specific Copeland Copelametic, & Discus Compressor except deep sump models. Includes crankcase heater, and reference drawings.
918-0028-00	Crankcase Heater 120v, 100w insertion. For usage on specific Copeland Copelametic, & Discus Compressors. Use with Heater Well 030-0186-00 and 030-0187-00.
918-0028-01	Crankcase Heater 240v, 100w insertion. For usage on specific Copeland Copelametic, & Discus Compressors. Use with Heater Well 030-0186-00 and 030-0187-00.
998-0045-00	End plate kit. Kit includes end plate & end plate gasket for the unloader valve.
998-0161-01	Sentronic Oil Control - Control only, supplied with 44" cable as standard
998-0162-00	Kit includes sensor, gaskets, and cable.
998-0283-02	Standard Sentronic cable is 44" long. The extension cable is 12 ft long and must be wired into the control. Kit 998-0283-02 includes instructions.
998-0550-00	Fan Motor Blade & Guard Assembly 230v, Does not include mounting bracket. Must be ordered separately
998-0550-01	Fan Motor Blade & Guard Assembly 460v, Does not include mounting bracket. Must be ordered separately
998-0550-02	Fan Motor Blade & Guard Assembly 115v, Does not include mounting bracket. Must be ordered separately
998-0550-03	Fan Motor 230v. Includes fan motor mounted to bottom guard
998-0550-04	Fan Motor 460v. Includes fan motor mounted to bottom guard
998-0550-05	Fan Motor 115v. Includes fan motor mounted to bottom guard
998-0574-11	Fan Mounting Kit. Vertical fan mount on top of compressor head
998-0683-00	Shipping Plate, Gasket, and Bolt (Discharge all 2D) (Discharge) (Suction & Discharge) 2 kits required



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<u>Número de Pa</u>	<u>Descripción</u>
998-0683-01	Shipping Plate, Gasket, and Bolt (Suction all 2) (Discharge all 3D, 4D, 4R, 6D, 6R & 9R) (Suction) (Suction 5, 6, 7 1/2, 9, & 10 1/2 HP)
998-0683-02	Shipping Plate, Gasket, and Bolt (Suction 6R, 10, 15 & 20 HP)
998-0700-09	Control Mounting Bracket Kit
998-1000-12	Demand Cooling Kit 120v / 60Hz
998-1000-22	Demand Cooling Kit 240v / 60Hz
998-1001-12	Demand Cooling Kit 120v / 50Hz
998-1001-22	Demand Cooling Kit 240v / 50Hz
998-AB52-01	Akybenzene Oil. Approved for use with specific Copeland Semi Hermetic After Market Compressors. Consult model family nomenclatures for oil identifier in the model number.
998-E022-01	Polyol Ester Oil. Approved for use with specific Copeland Hermetic & Semi Hermetic models. Consult specific model family nomenclatures for oil identifier in the model number.

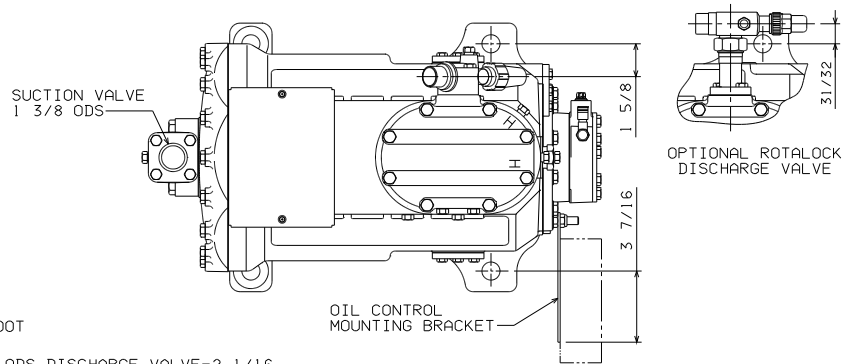
Boletín Cambio Nomenclatura Discus Cono Sur 

Actualización de Nomenclatura Discus Cono Sur 

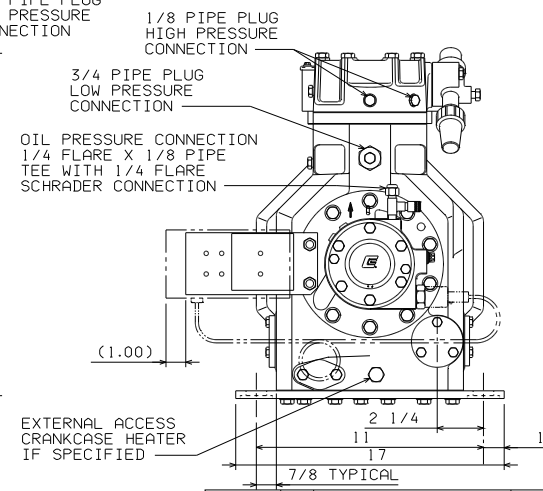
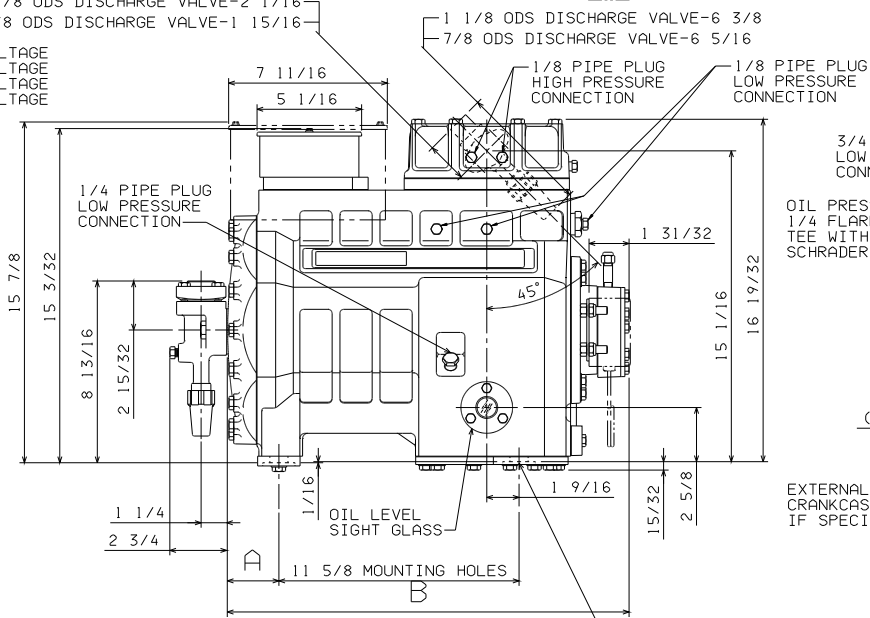
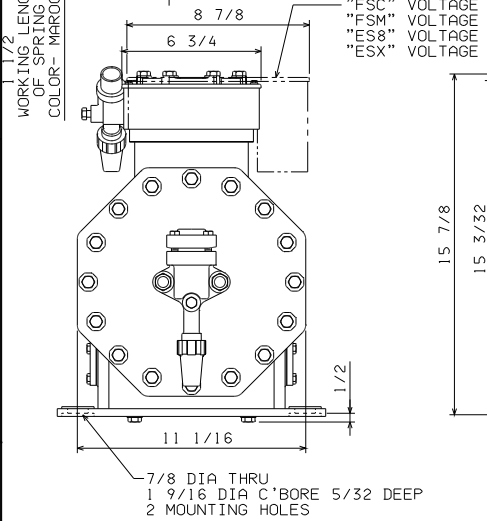
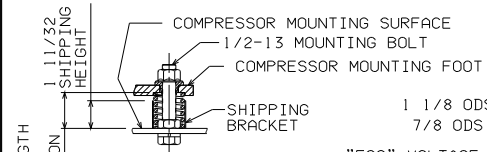


MODEL	A	B	OLD MODEL NUMBER
2DA3R58K	2 1/2	19 1/2	2DA3-050
2DA3F23K	3 1/2	20 1/2	2DA3-060
2DA3R89K	3 1/2	20 1/2	2DA3-075
2DB3R61K	2 1/2	19 1/2	2DB3-050
2DB3F25K	3 1/2	20 1/2	2DB3-060
2DC3R55K	3 1/2	20 1/2	2DC3-050
2DCJR55K	3 1/2	20 1/2	2DCJ-050
2DF3F16K	3 1/2	20 1/2	2DF3-030
2DD3R63K	3 1/2	20 1/2	2DD3-050
2DL3F20K	3 1/2	20 1/2	2DL3-040
2DL3R78K	3 1/2	20 1/2	2DL3-075

SPECIFICATIONS	
ES NO.	DESCRIPTION
ES81-159	CLEANLINESS
ES81-250	IDENTIFICATION
ES92-155	CONVERSION-METRIC
ES92-167	HAZARDOUS SUBSTANCES



NOTE:
 ALL TOLERANCES ARE ±3/32 EXCEPT INDUSTRY STANDARDS APPLY TO FITTINGS AND VALVES.



7/8 DIA THRU
1 9/16 DIA C BORE 1/8 DEEP
2 MOUNTING HOLES



INTERPRET PER ASME Y14.5M-1994 AND COPELAND DESIGN STANDARDS DS2002. DO NOT SCALE DRAWING.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE INCH (MILLIMETER).

2 PLACE 1
3 PLACE 1
ANGULAR 1

REVISIONS	DATE	BY	CHKD	APPR
51-0805-048 28	09-28-05	SKR	DE	
51-0289-036	01-19-88	EG		

ENG NOTICE NO. REV NO. REVISIONS DATE BY CHKD APPR

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MATERIAL SPECIFICATION

SKR 497-0184-00/27

N/A

DATE 09-12-05 SCALE 3:8 DATE FORMAT: MM-DD-YY

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