

Appendix

Additional Information

- Copeland to Copeland Condensing Unit Cross Reference
- Tecumseh to Copeland Condensing Unit Cross Reference
- EK Filter Drier
- HMI Moisture Indicator
- HF/HFK Series Thermal Expansion Valve
- TXV Superheat Adjustment Chart
- Outdoor Hood Accessory Information
- Refrigerants and Lubricants Approved for Use in Copeland™ Compressors

Copeland to Copeland condensing unit cross reference

Status	Product Number	Length (in)	Width (in)	Height (in)	Refrigerant	Application	Capacity	MCA / Fuse
Obsolete	MBFS-0017-SAA	13.8	11.1	9.7	12	HT	1,090	4.2 - 15
Active	M2FH-H017-IAA	13.6	11.5	9.7	134a	HT	1,170	6.0 - 15
Obsolete	MBFS-0020-SAA	13.8	11.1	9.7	12	HT	1,260	5.5 - 15
Active	M2FH-H020-IAA	14	11.2	9.7	134a	HT	1,440	6.0 - 15
Obsolete	MBFS-0024-SAA	13.8	11.8	9.7	12	HT	1,730	6.3 - 15
Active	M2FH-0024-SAA	13.9	11.3	9.7	134a	HT	1,810	6.3 - 15
Obsolete	MBFH-A026-IAA	13.8	11.8	9.7	12	HT	2,770	6.9 - 15
Active	M2FH-0026-IAA	13.8	11.5	9.7	134a	HT	2,080	6.9 - 15
Active	MBFH-B026-IAA	13.9	11.5	9.7	12	HT	1,840	7.4 - 15
Obsolete	MBFS-0033-IAA	13.8	11.8	9.7	12	HT	4,080	9.7 - 15
Active	MBFS-A033-IAA	13.9	11.5	9.7	12	HT	2,470	9.5 - 15
Active	M2FH-A033-IAA	13.8	11.3	9.7	134a	HT	2,620	9.9 - 15
Obsolete	MBFH-0049-IAA	16.2	13.1	11.8	12	HT	4,890	12.5 - 20
Active	MBFH-A049-CAA	16.3	13.1	11.7	12	HT	3,350	14.0 - 20
Obsolete	MBFH-0050-IAA	17.9	13.1	11.8	12	HT	4,030	13.8 - 20
Active	MBFH-A050-IAA	16.6	13.7	11.7	12	HT	4,070	12.8 - 20
Obsolete	M2FH-0049-IAA	16.2	13.1	11.8	134a	HT	3,500	12.5 - 20
Active	M2FH-H049-CAA	16	12.7	11.7	134a	HT	3,690	14.0 - 20
Obsolete	M2FH-0050-IAA	16.2	12.7	11.8	134a	HT	4,230	13.6 - 20
Active	M2FH-A050-IAA	17.5	13.7	11.7	134a	HT	4,060	12.8 - 20
Obsolete	FJAF-A050-IAA	16.2	13.2	11.9	404A	MT	4,340	13.7 - 20
Active	M4FF-0050-IAA	16.1	13.7	11.7	404A	MT	4,660	14.0 - 20
Obsolete	FJAF-A050-IAV	16.2	13.2	11.9	404A	MT	4,340	7.8 - 15
Active	M4FF-0050-IAV	16.1	13.7	11.7	404A	MT	4,660	7.2 - 15
Obsolete	FJAF-A056-IAA	17.5	14.3	12.1	404A	MT	5,630	14.3 - 20
Active	M4FF-0056-IAA	17.4	14.4	11.8	404A	MT	5,180	14.8 - 20
Obsolete	FJAF-A056-IAV	17.5	14.3	12.1	404A	MT	5,630	8.1 - 15
Active	M4FF-0056-IAV	17.4	14.4	11.8	404A	MT	5,350	7.6 - 15
Obsolete	FJAF-B078-CAA	24	16.9	13.1	404A	MT	6,740	18.5 - 25
Active	M4FF-0075-CAA	24	17.1	13.1	404A	MT	6,660	20.8 - 30
Obsolete	FJAF-B078-CAV	24	16.9	13.1	404A	MT	6,740	8.8 - 15
Active	M4FF-0075-CAV	24	17.1	13.1	404A	MT	6,660	9.7 - 15
Obsolete	FJAM-A106-CAV	24	18.3	16.2	404A	MT	8,530	12.5 - 15
Active	FJAF-0106-CAV	24	18.3	16.1	404A	MT	8,500	12.7 - 20
Obsolete	F3AD-B151-CFV	24	18.3	16.9	22	HT	11,500	14.2 - 20
Active	FFAP-015Z-CFV	24.1	18.3	16.6	22	HT	11,400	13.9 - 20
Obsolete	FGAH-A151-CFV	24	18.3	16.1	22	HT	11,300	14.2 - 20
Active	FFAP-015Z-CFV	24.1	18.3	16.6	22	HT	11,400	13.9 - 20
Obsolete	F3AD-B151-TFC	24	18.3	16.9	22	HT	11,300	10.4 - 15
Active	FFAP-015Z-TFC	24.1	18.3	16.6	22	HT	11,400	11.4 - 15
Obsolete	FGAH-A151-TFC	24	18.3	16.1	22	HT	11,300	10.4 - 15
Active	FFAP-015Z-TFC	24.1	18.3	16.6	22	HT	11,400	11.4 - 15
Obsolete	F3AD-B151-TFD	24	18.3	16.9	22	HT	11,100	5.4 - 15
Active	FFAP-015Z-TFD	24.1	18.3	16.6	22	HT	11,400	6.4 - 15
Obsolete	FGAH-A151-TFD	24	18.3	16.1	22	HT	11,300	5.4 - 15
Active	FFAP-015Z-TFD	24.1	18.3	16.6	22	HT	11,400	6.4 - 15
Obsolete	F3AD-B201-CFV	25	34	19	22	HT	15,400	19.2 - 30
Active	FFAP-020Z-CFV	25.2	34.1	19	22	HT	15,200	16.8 - 25
Obsolete	FGAH-A201-CFV	25.2	34	19	22	HT	15,400	19.2 - 30
Active	FFAP-020Z-CFV	25.2	34.1	19	22	HT	15,200	16.8 - 25
Obsolete	F3AD-B201-TFC	25	34	19	22	HT	15,800	11.7 - 15
Active	FFAP-020Z-TFC	25.2	34.1	19	22	HT	15,200	13.9 - 20
Obsolete	FGAH-A201-TFC	25.2	34	19	22	HT	15,400	11.7 - 15
Active	FFAP-020Z-TFC	25.2	34.1	19	22	HT	15,200	13.9 - 20
Obsolete	F3AD-B201-TFD	25	34	19	22	HT	15,000	6.1 - 15
Active	FFAP-020Z-TFD	25.2	34.1	19	22	HT	15,200	7.1 - 15
Obsolete	FGAH-A201-TFD	25.2	34	19	22	HT	15,400	6.1 - 15
Active	FFAP-020Z-TFD	25.2	34.1	19	22	HT	15,200	7.1 - 15
Obsolete	F3AD-B225-CFV	25.1	34.1	19	22	HT	17,100	21.1 - 30
Active	FFAP-022Z-CFV	25.2	34.1	19	22	HT	18,300	22.4 - 35
Obsolete	FGAH-A225-CFV	25.2	34	19	22	HT	18,100	21.1 - 30
Active	FFAP-022Z-CFV	25.2	34.1	19	22	HT	18,300	22.4 - 35
Obsolete	F3AD-B225-TFC	25.1	34.1	19	22	HT	17,100	13.3 - 15
Active	FFAP-022Z-TFC	25.2	34.1	19	22	HT	18,300	16.1 - 20

Capacity at +25° F Evap, 90° F Ambient for MT / HT Applications

Capacity at -10° F Evap, 90° F Ambient for LT Applications

Refrigerant change

Copeland to Copeland condensing unit cross reference

Status	Product Number	Length (in)	Width (in)	Height (in)	Refrigerant	Application	Capacity	MCA / Fuse
Obsolete	FGAH-A225-TFC	25.2	34	19	22	HT	18,100	13.3 - 15
Active	FFAP-022Z-TFC	25.2	34.1	19	22	HT	18,300	16.1 - 20
Obsolete	F3AD-B225-TFD	25.1	34.1	19	22	HT	17,100	7.0 - 15
Active	FFAP-022Z-TFD	25.2	34.1	19	22	HT	18,300	10.0 - 15
Obsolete	FGAH-A225-TFD	25.2	34	19	22	HT	18,100	7.0 - 15
Active	FFAP-022Z-TFD	25.2	34.1	19	22	HT	18,300	10.0 - 15
Obsolete	F3AD-B301-CFV	25.2	34.1	19.1	22	HT	24,600	28.9 - 40
Active	FFAP-032Z-CFV	25.2	34.1	19	22	HT	27,400	31.8 - 50
Obsolete	FGAH-A301-CFV	25.5	34	19	22	HT	24,600	28.9 - 40
Active	FFAP-032Z-CFV	25.2	34.1	19	22	HT	27,400	31.8 - 50
Obsolete	F3AD-B301-TFC	25.2	34.1	19.1	22	HT	24,600	19.7 - 20
Active	FFAP-032Z-TFC	25.2	34.1	19	22	HT	27,400	21.8 - 30
Obsolete	FGAH-A301-TFC	25.5	34	19	22	HT	24,600	19.7 - 20
Active	FFAP-032Z-TFC	25.2	34.1	19	22	HT	27,400	21.8 - 30
Obsolete	F3AD-B301-TFD	25.2	34.1	19.1	22	HT	24,600	10.2 - 15
Active	FFAP-032Z-TFD	25.2	34.1	19	22	HT	27,400	11.8 - 15
Obsolete	FGAH-A301-TFD	25.5	34	19	22	HT	24,600	10.2 - 15
Active	FFAP-032Z-TFD	25.2	34.1	19	22	HT	27,400	11.8 - 15
Obsolete	F3AD-B325-CFV	25.2	34.1	18.9	22	HT	26,500	30.1 - 40
Active	FFAP-032Z-CFV	25.2	34.1	19	22	HT	27,400	31.8 - 50
Obsolete	FGAH-A325-CFV	25.5	34	19	22	HT	26,400	30.1 - 40
Active	FFAP-032Z-CFV	25.2	34.1	19	22	HT	27,400	31.8 - 50
Obsolete	F3AD-B325-TFC	25.2	34.1	18.9	22	HT	26,500	22.2 - 25
Active	FFAP-032Z-TFC	25.2	34.1	19	22	HT	27,400	21.8 - 30
Obsolete	FGAH-A325-TFC	25.5	34	19	22	HT	26,400	22.2 - 25
Active	FFAP-032Z-TFC	25.2	34.1	19	22	HT	27,400	21.8 - 30
Obsolete	F3AD-B325-TFD	25.2	34.1	18.9	22	HT	26,500	10.6 - 15
Active	FFAP-032Z-TFD	25.2	34.1	19	22	HT	27,400	11.8 - 15
Obsolete	FGAH-A325-TFD	25.5	34	19	22	HT	26,400	10.6 - 15
Active	FFAP-032Z-TFD	25.2	34.1	19	22	HT	27,400	11.8 - 15
Obsolete	F3AD-B401-TFC	28.2	44.1	26.8	22	HT	37,600	26.1 - 40
Active	FFAP-042Z-TFC	28.2	44.1	26.8	22	HT	38,700	31.5 - 50
Obsolete	FGAH-A401-TFC	28.6	44.1	26.8	22	HT	37,500	26.1 - 40
Active	FFAP-042Z-TFC	28.2	44.1	26.8	22	HT	38,700	31.5 - 50
Obsolete	F3AD-B401-TFD	28.2	44.1	26.8	22	HT	37,600	13.8 - 20
Active	FGAH-A401-TFD	28.6	44.1	26.8	22	HT	37,500	13.8 - 20
Obsolete	F3AD-A501-CFV	28.6	44.1	26.9	22	HT	42,700	46.4 - 70
Active	FFAP-050Z-CFV	28.2	44.1	26.8	22	HT	43,100	43.4 - 70
Obsolete	FGAH-A501-CFV	28.6	44.1	26.8	22	HT	43,200	46.5 - 70
Active	FFAP-050Z-CFV	28.2	44.1	26.8	22	HT	43,100	43.4 - 70
Obsolete	F3AD-A501-TFC	28.6	44.1	26.9	22	HT	42,700	30.3 - 45
Active	FFAP-050Z-TFC	28.2	44.1	26.8	22	HT	43,100	30.4 - 45
Obsolete	FGAH-A501-TFC	28.6	44.1	26.8	22	HT	43,200	30.4 - 45
Active	FFAP-050Z-TFC	28.2	44.1	26.8	22	HT	43,100	30.4 - 45
Obsolete	F3AD-A501-TFD	28.6	44.1	26.9	22	HT	42,700	14.4 - 20
Active	FFAP-050Z-TFD	28.2	44.1	26.8	22	HT	43,100	14.4 - 20
Obsolete	FGAH-A501-TFD	28.6	44.1	26.8	22	HT	43,200	14.4 - 20
Active	FFAP-050Z-TFD	28.2	44.1	26.8	22	HT	43,100	14.4 - 20
Obsolete	MBFL-0034-IAA	16	12.2	9.7	12	LT	1,660	7.0 - 15
Active	MBFL-A034-IAA	16	12.4	9.6	12	LT	1,460	8.7 - 15
Obsolete	FJWM-C056-IAA	17.9	13.2	11.2	404A	MT	6,000	12.6 - 20
Active	M4WF-C056-IAA	17.4	12.7	10.5	404A	MT	5,890	13.1 - 20
Obsolete	FJWM-C056-IAV	17.9	13.2	11.2	404A	MT	6,000	7.1 - 15
Active	M4WF-C056-IAV	17.4	12.7	10.5	404A	MT	5,890	6.6 - 15
Obsolete	FJWM-C078-CAA	24	17.1	12.1	404A	MT	7,930	16.5 - 25
Active	M4WF-C075-CAA	24	16.1	10.7	404A	MT	7,560	18.8 - 30
Obsolete	FJWM-C078-CAV	24	17.1	12.1	404A	MT	7,930	7.6 - 15
Active	M4WF-C075-CAV	24	16.1	10.7	404A	MT	7,560	8.5 - 15
Obsolete	FJWM-C106-CAV	24	16.1	11.8	404A	MT	9,100	9.6 - 15
Active	FJWF-C106-CAV	24.2	17.2	10.7	404A	MT	9,470	11.3 - 20
Obsolete	FJWL-C075-IAV	24	16.1	11.6	404A	LT	3,750	12.1 - 20
Active	M4WL-C075-IAV	24	16.4	10.7	404A	LT	4,100	11.8 - 20
Obsolete	FTAH-A15Z-CFV	24	18.3	16.3	134a	HT	13,100	23.8 - 40
Active	FFAS-A20Z-CFV	25.2	34	19	134a	HT	12,200	21.8 - 35

Capacity at +25° F Evap, 90° F Ambient for MT / HT Applications

Capacity at -10° F Evap, 90° F Ambient for LT Applications

Refrigerant change

Copeland to Copeland condensing unit cross reference

Status	Product Number	Length (in)	Width (in)	Height (in)	Refrigerant	Application	Capacity	MCA / Fuse
Obsolete	FTAH-A15Z-TFC	24	18.3	16.3	134a	HT	13,100	13.9 - 20
Active	FFAS-A20Z-TFC	25.2	34	19	134a	HT	12,200	13.3 - 20
Obsolete	FTAH-A20Z-CFV	25.2	34	19	134a	HT	17,000	28.1 - 45
Active	FFAS-A30Z-CFV	25	34	19	134a	HT	17,700	28.7 - 45
Obsolete	FJAM-A20Z-CFV	25.2	34	19	404A	MT	18,100	21.9 - 35
Active	FFAS-A20Z-CFV	25.2	34	19	404A	MT	17,500	21.8 - 35
Obsolete	FJAM-A20Z-TFC	25.2	34	19	404A	MT	18,100	13.4 - 20
Active	FFAS-A20Z-TFC	25.2	34	19	404A	MT	17,500	13.3 - 20
Obsolete	FTAH-A25Z-CFV	25.2	34	19	134a	HT	19,200	31.8 - 50
Active	FFAS-A30Z-CFV	25	34	19	134a	HT	17,700	28.7 - 45
Obsolete	FTAH-A25Z-TFC	25.2	34	19	134a	HT	19,200	19.7 - 30
Active	FFAS-A30Z-TFC	25	34	19	134a	HT	17,700	17.9 - 25
Obsolete	FJAM-A25Z-CFV	25.2	34	19	404A	MT	23,000	25.2 - 40
Active	FFAS-A25Z-CFV	25.2	34.1	19	404A	MT	23,200	25.2 - 40
Obsolete	FJAM-A25Z-TFC	25.2	34	19	404A	MT	23,000	15.3 - 20
Active	FFAS-A25Z-TFC	25.2	34.1	19	404A	MT	23,200	15.3 - 20
Obsolete	FTAH-A30Z-CFV	25.2	34	19	134a	HT	23,200	36.3 - 60
Active	FFAS-A40Z-CFV	28.1	44.1	26.8	134a	HT	24,700	37.1 - 60
Obsolete	FTAH-A30Z-TFC	25.2	34	19	134a	HT	23,200	22.4 - 35
Active	FFAS-A40Z-TFC	28.1	44.1	26.8	134a	HT	24,700	23.2 - 35
Obsolete	FJAM-A30Z-CFV	25.2	34	19	404A	MT	26,900	28.7 - 45
Active	FFAS-A30Z-CFV	25	34	19	404A	MT	26,900	28.7 - 45
Obsolete	FJAM-A30Z-TFC	25.2	34	19	404A	MT	26,900	17.9 - 25
Active	FFAS-A30Z-TFC	25	34	19	404A	MT	26,900	17.9 - 25
Obsolete	FTAH-A35Z-CFV	25.2	34	19	134a	HT	27,000	41.7 - 60
Active	FFAS-A50Z-CFV	28.1	44.1	26.8	134a	HT	29,900	42.5 - 60
Obsolete	FTAH-A35Z-TFC	25.2	34	19	134a	HT	27,000	30.4 - 45
Active	FFAS-A50Z-TFC	28.1	44.1	26.8	134a	HT	29,900	31.2 - 45
Obsolete	FTAH-A35Z-TFD	25.2	34	19	134a	HT	27,000	15.2 - 20
Active	FFAS-A50Z-TFD	28.1	44.1	26.8	134a	HT	29,900	14.4 - 20
Obsolete	FJAM-A35Z-CFV	25.2	34	19	404A	MT	30,500	32.3 - 50
Active	FFAS-A35Z-CFV	25.2	34	19	404A	MT	30,400	32.3 - 50
Obsolete	FJAM-A35Z-TFC	25.2	34	19	404A	MT	30,500	20.2 - 30
Active	FFAS-A35Z-TFC	25.2	34	19	404A	MT	30,400	20.2 - 30
Obsolete	FTAH-A45Z-TFC	28.2	44.1	26.8	134a	HT	35,000	31.7 - 50
Active	FFAS-A60Z-TFC	28.2	44.1	26.8	134a	MT	35,000	31.7 - 50
Obsolete	FTAH-A45Z-TFD	28.2	44.1	26.8	134a	HT	35,000	16.8 - 25
Active	FFAS-A60Z-TFD	28.2	44.1	26.8	134a	HT	35,000	16.8 - 25
Obsolete	FJAM-A40Z-CFV	28.2	44.1	26.8	404A	MT	37,800	37.1 - 60
Active	FFAS-A40Z-CFV	28.2	44.1	26.8	404A	MT	38,100	37.1 - 60
Obsolete	FJAM-A40Z-TFC	28.2	44.1	26.8	404A	MT	37,800	23.2 - 60
Active	FFAS-A40Z-TFC	28.2	44.1	26.8	404A	MT	38,100	23.2 - 35
Obsolete	FTAH-A50Z-TFC	28.2	44.1	26.8	134a	HT	39,200	39.4 - 60
Active	FFAS-A60Z-TFC	28.2	44.1	26.8	134a	MT	35,000	31.7 - 50
Obsolete	FTAH-A50Z-TFD	28.2	44.1	26.8	134a	HT	39,200	20.3 - 30
Active	FFAS-A60Z-TFD	28.2	44.1	26.8	134a	MT	35,000	16.8 - 25
Obsolete	FJAM-A50Z-CFV	28.2	44.1	26.8	404A	MT	45,600	42.5 - 60
Active	FFAS-A50Z-CFV	28.1	44.1	26.8	404A	MT	46,100	42.5 - 60
Obsolete	FJAM-A50Z-TFC	28.2	44.1	26.8	404A	MT	45,600	31.2 - 45
Active	FFAS-A50Z-TFC	28.1	44.1	26.8	404A	MT	46,100	31.2 - 45
Obsolete	FJAM-A50Z-TFD	28.2	44.1	26.8	404A	MT	45,600	14.4 - 20
Active	FFAS-A50Z-TFD	28.1	44.1	26.8	404A	MT	46,100	14.4 - 20
Obsolete	FJAM-A60Z-TFC	28.2	44.1	26.8	404A	MT	52,400	31.7 - 50
Active	FFAS-A60Z-TFC	28.2	44.1	26.8	404A	MT	53,100	31.7 - 50
Obsolete	FJAM-A60Z-TFD	28.2	44.1	26.8	404A	MT	52,400	16.8 - 25
Active	FFAS-A60Z-TFD	28.2	44.1	26.8	404A	MT	53,100	16.8 - 25
Obsolete	FJEF-B078-CAA	24	16.8	13.7	404A	MT	6,740	18.5 - 25
Active	M4EF-0075-CAA	24	16.8	13.6	404A	MT	6,620	20.8 - 30
Obsolete	FJEF-A075-IAV	24	16.1	13.7	404A	MT	7,120	12.7 - 20
Active	M4EF-0080-IAV	24	16.8	13.6	404A	MT	7,640	12.4 - 20
Obsolete	M2FL-0040-IAA	16.5	12.4	9.7	134a	LT	1,540	7.3 - 15
Active	M2FL-H040-IAA	16.6	12.4	9.6	134a	LT	1,530	9.0 - 15
Obsolete	M2EM-0048-IAA	16	15.1	11.8	134a	MT	3,760	13.6 - 20
Active	M2EM-A048-IAA	16.5	15.1	11.8	134a	MT	3,740	12.8 - 20

Capacity at +25° F Evap, 90° F Ambient for MT / HT Applications Capacity at -10° F Evap, 90° F Ambient for LT Applications

Refrigerant change

Copeland to Copeland condensing unit cross reference

Status	Product Number	Length (in)	Width (in)	Height (in)	Refrigerant	Application	Capacity	MCA / Fuse
Obsolete	MBFL-0050-IAA	16.2	13.1	11.8	12	LT	2,350	9.9 - 15
Active	M2FL-0050-CFA	16.1	12.7	12.5	134a	LT	2,390	13.0 - 20
Obsolete	FTAL-A050-IAA	16	13.1	11.9	134a	LT	2,260	17.2 - 25
Active	M2FL-0050-CFA	16.1	12.7	12.5	134a	LT	2,390	13.0 - 20
Obsolete	F3WD-C151-CFV	24	16.1	15	22	HT	13,500	11.3 - 20
Active	FFWP-015Z-CFV	16.9	24	16.6	22	HT	12,100	12.5 - 20
Obsolete	FGWH-A151-CFV	24	16.7	14.3	22	HT	13,500	11.3 - 20
Active	FFWP-015Z-CFV	16.9	24	16.6	22	HT	12,100	12.5 - 20
Obsolete	F3WD-C151-TFC	24	16.1	14.2	22	HT	13,500	7.5 - 15
Active	FFWP-015Z-TFC	16.9	24	16.6	22	HT	12,100	10.0 - 15
Obsolete	FGWH-A151-TFC	24	16.7	14.3	22	HT	13,500	7.5 - 15
Active	FFWP-015Z-TFC	16.9	24	16.6	22	HT	12,100	10.0 - 15
Obsolete	F3WD-C151-TFD	24	16.1	15.4	22	HT	13,500	3.8 - 15
Active	FFWP-015Z-TFD	16.9	24	16.6	22	HT	12,100	4.8 - 15
Obsolete	FGWH-A151-TFD	24	16.7	15.4	22	HT	13,500	3.8 - 15
Active	FFWP-015Z-TFD	16.9	24	16.6	22	HT	12,100	4.8 - 15
Obsolete	F3WD-C201-CFV	24	16.1	15	22	HT	16,900	16.9 - 30
Active	FFWP-020Z-CFV	16.9	24	16.6	22	HT	16,400	15.0 - 25
Obsolete	FGWH-A201-CFV	24	16.7	15	22	HT	16,900	16.9 - 30
Active	FFWP-020Z-CFV	16.9	24	16.6	22	HT	16,400	15.0 - 25
Obsolete	F3WD-C201-TFC	24	16.1	14.2	22	HT	16,900	9.4 - 15
Active	FFWP-020Z-TFC	16.9	24	16.6	22	HT	16,400	12.1 - 20
Obsolete	FGWH-A201-TFC	24	16.7	14.3	22	HT	16,900	9.4 - 15
Active	FFWP-020Z-TFC	16.9	24	16.6	22	HT	16,400	12.1 - 20
Obsolete	F3WD-C201-TFD	24	16.1	15.4	22	HT	16,900	4.6 - 15
Active	FFWP-020Z-TFD	16.9	24	16.6	22	HT	16,400	6.0 - 15
Obsolete	FGWH-A201-TFD	24	16.7	15.4	22	HT	16,900	4.6 - 15
Active	FFWP-020Z-TFD	16.9	24	16.6	22	HT	16,400	6.0 - 15
Obsolete	F3WD-C225-CFV	24	16.1	15	22	HT	19,300	18.8 - 30
Active	FFWP-022Z-CFV	16.9	24	16.6	22	HT	19,200	19.6 - 35
Obsolete	FGWH-A225-CFV	24	16.7	15	22	HT	19,300	18.8 - 30
Active	FFWP-022Z-CFV	16.9	24	16.6	22	HT	19,200	19.6 - 35
Obsolete	F3WD-C225-TFC	24	16.1	14.6	22	HT	19,300	11.0 - 15
Active	FFWP-022Z-TFC	16.9	24	16.6	22	HT	19,200	13.3 - 20
Obsolete	FGWH-A225-TFC	24	16.7	14.6	22	HT	19,300	11.0 - 15
Active	FFWP-022Z-TFC	16.9	24	16.6	22	HT	19,200	13.3 - 20
Obsolete	F3WD-C225-TFD	24	16.1	15.4	22	HT	19,300	5.5 - 15
Active	FFWP-022Z-TFD	16.9	24	16.6	22	HT	19,300	5.5 - 15
Obsolete	F3WD-C301-CFV	26.2	21	15.4	22	HT	27,300	23.1 - 40
Active	FFWP-032Z-CFV	27.2	21.5	18.2	22	HT	29,400	29.0 - 50
Obsolete	FGWH-A301-CFV	25	21	15.5	22	HT	27,300	23.1 - 40
Active	FFWP-032Z-CFV	27.2	21.5	18.2	22	HT	29,400	29.0 - 50
Obsolete	F3WD-C301-TFC	25	21	15.8	22	HT	27,300	13.9 - 20
Active	FFWP-032Z-TFC	27.2	21.5	18.2	22	HT	29,400	19.0 - 30
Obsolete	FGWH-A301-TFC	25	21	15.8	22	HT	27,300	13.9 - 20
Active	FFWP-032Z-TFC	27.2	21.5	18.2	22	HT	29,400	19.0 - 30
Obsolete	F3WD-C301-TFD	25	21	15.8	22	HT	27,300	7.0 - 15
Active	FFWP-032Z-TFD	27.2	21.5	18.2	22	HT	29,400	8.6 - 15
Obsolete	FGWH-A301-TFD	25	21	15.8	22	HT	27,300	7.0 - 15
Active	FFWP-032Z-TFD	27.2	21.5	18.2	22	HT	29,400	8.6 - 15
Obsolete	F3WD-C325-CFV	26.2	21	15.4	22	HT	29,700	24.3 - 40
Active	FFWP-032Z-CFV	27.2	21.5	18.2	22	HT	29,400	29.0 - 50
Obsolete	FGWH-A325-CFV	25	21	15.5	22	HT	30,200	24.3 - 40
Active	FFWP-032Z-CFV	27.2	21.5	18.2	22	HT	29,400	29.0 - 50
Obsolete	F3WD-C325-TFC	25	21	16.1	22	HT	29,700	16.4 - 25
Active	FFWP-032Z-TFC	27.2	21.5	18.2	22	HT	29,400	19.0 - 30
Obsolete	FGWH-A325-TFC	25	21	15.5	22	HT	30,200	16.4 - 25
Active	FFWP-032Z-TFC	27.2	21.5	18.2	22	HT	29,400	19.0 - 30
Obsolete	F3WD-C325-TFD	25	21	16.1	22	HT	29,700	7.4 - 15
Active	FFWP-032Z-TFD	27.2	21.5	18.2	22	HT	29,400	8.6 - 15
Obsolete	FGWH-A325-TFD	25	21	15.5	22	HT	30,200	7.4 - 15
Active	FFWP-032Z-TFD	27.2	21.5	18.2	22	HT	29,400	8.6 - 15
Obsolete	F3WD-C401-CFV	26.8	21	21.1	22	HT	39,400	36.3 - 60
Active	FFWP-042Z-CFV	27.2	21.6	21.1	22	HT	40,500	35.3 - 60

Capacity at +25° F Evap, 90° F Ambient for MT / HT Applications Capacity at -10° F Evap, 90° F Ambient for LT Applications Refrigerant change

Copeland to Copeland condensing unit cross reference

Status	Product Number	Length (in)	Width (in)	Height (in)	Refrigerant	Application	Capacity	MCA / Fuse
Obsolete	FGWH-A401-CFV	26.8	21	21.1	22	HT	39,400	36.3 - 60
Active	FFWP-042Z-CFV	27.2	21.6	21.1	22	HT	40,500	35.3 - 60
Obsolete	F3WD-C401-TFC	26.8	21	21.1	22	HT	39,400	22.5 - 40
Active	FFWP-042Z-TFC	27.2	21.6	21.1	22	HT	40,500	27.9 - 50
Obsolete	FGWH-A401-TFC	26.8	21	21.1	22	HT	39,400	22.5 - 40
Active	FFWP-042Z-TFC	27.2	21.6	21.1	22	HT	40,500	27.9 - 50
Obsolete	F3WD-C401-TFD	26.8	21	21.1	22	HT	39,400	11.4 - 20
Active	FGWH-A401-TFD	26.8	21	21.1	22	HT	39,400	11.4 - 20
Obsolete	F3WD-C501-CFV	25.8	21.8	21.1	22	HT	45,100	42.9 - 70
Active	FFWP-050Z-CFV	27.5	21.7	21.1	22	HT	44,800	39.8 - 70
Obsolete	FGWH-A501-CFV	25.8	21.8	21.1	22	HT	45,100	42.9 - 70
Active	FFWP-050Z-CFV	27.5	21.7	21.1	22	HT	44,800	39.8 - 70
Obsolete	F3WD-C501-TFC	25.8	21.8	21.1	22	HT	45,100	26.8 - 45
Active	FFWP-050Z-TFC	27.5	21.7	21.1	22	HT	44,800	26.8 - 45
Obsolete	FGWH-A501-TFC	25.8	21.8	21.1	22	HT	45,100	26.8 - 45
Active	FFWP-050Z-TFC	27.5	21.7	21.1	22	HT	44,800	26.8 - 45
Obsolete	F3WD-C501-TFD	25.8	21.8	21.1	22	HT	45,100	12.0 - 20
Active	FFWP-050Z-TFD	27.5	21.7	21.1	22	HT	44,800	12.0 - 20
Obsolete	FGWH-A501-TFD	25.8	21.8	21.1	22	HT	45,100	12.0 - 20
Active	FFWP-050Z-TFD	27.5	21.7	21.1	22	HT	44,800	12.0 - 20
Obsolete	FJAM-A300-CFV	25.1	34	18.9	404A	MT	23,800	25.8 - 35
Active	FFAP-030Z-CFV	25.2	34.1	19	404A	HT	20,800	25.3 - 40
Obsolete	FGAH-A401-CFV	28.6	44.1	26.8	22	HT	37,500	39.9 - 60
Active	FFAP-042Z-CFV	28.2	44.1	26.8	22	HT	38,700	38.9 - 60
Obsolete	FGAH-A401-CFV	28.6	44.1	26.8	22	HT	37,500	39.9 - 60
Active	FFAP-042Z-CFV	28.2	44.1	26.8	22	HT	38,700	38.9 - 60
Obsolete	FJAM-B400-CFV	28.2	44.1	26.8	404A	MT	37,800	33.5 - 50
Active	FFAP-040Z-CFV	28.2	44.1	26.8	404A	HT	31,700	33.1 - 50
Obsolete	FJAM-A125-CFV	24	18.3	16.2	404A	MT	9,340	11.7 - 15
Active	FJAF-0125-CFV	24	18.3	16.1	404A	MT	9,330	11.0 - 15
Obsolete	FJAM-A126-CAV	24	18.4	16.2	404A	MT	10,500	14.9 - 20
Active	FJAF-0126-CFV	24	18.3	16.5	404A	MT	10,500	13.0 - 20
Obsolete	FJAL-A101-CAV	24	16.1	13.1	404A	LT	4,850	13.2 - 20
Active	FJAF-0108-CFV	24	17.3	13	404A	MT	9,230	12.8 - 20
Obsolete	FTEH-B075-IAA	24	16.8	15.9	134a	HT	5,510	21.0 - 30
Active	M2EH-0075-CFA	24	17.1	13.6	134a	HT	6,430	18.3 - 25
Obsolete	FJWM-C125-CFV	24	18.5	12.8	404A	MT	10,300	8.8 - 15
Active	FJWF-C125-CFV	24.2	19.1	12.8	404A	MT	9,870	9.6 - 15
Obsolete	FJWM-C126-CAV	24	17.3	12.8	404A	MT	11,600	12.0 - 20
Active	FJWF-C126-CFV	24.2	17.8	12.8	404A	MT	11,400	11.6 - 20
Obsolete	FTWH-C074-IAA	18	12.7	11.6	134a	HT	6,530	19.0 - 30
Active	M2WH-C074-CFA	19.5	12.7	11.9	134a	HT	7,270	16.3 - 25
Obsolete	FTWM-C075-IAA	24	16.1	11.8	134a	MT	7,850	14.8 - 25
Active	M2WM-C075-CFA	24	17.6	12.1	134a	MT	8,490	17.0 - 30
Obsolete	MMFH-0022-IAA	13.8	11.3	9.7	22	HT	1,540	6.5 - 15
Active	MCFH-A022-IAA	13.9	11.3	9.7	22	HT	1,650	5.9 - 15
Obsolete	MCFH-0027-IAA	13.8	11.2	9.7	22	HT	2,600	9.1 - 15
Active	MCFH-B027-IAA	13.9	11.5	9.7	22	HT	2,680	8.2 - 15
Obsolete	MCFH-0036-IAA	16.1	12.7	11.8	22	HT	3,140	9.7 - 15
Active	MCFH-B036-IAA	16.2	12.7	11.7	22	HT	3,400	10.3 - 15
Obsolete	MCFH-0049-CAA	16.1	12.7	11.8	22	HT	4,150	10.9 - 15
Active	MCFH-A049-CAA	16	12.9	11.7	22	HT	4,120	15.9 - 25
Obsolete	MCFH-0056-IAA	17.4	14	11.8	22	HT	4,950	18.0 - 25
Active	MCFH-A056-IAA	17.4	14.4	11.8	22	HT	4,460	15.5 - 20
Obsolete	F3AH-A078-IAA	24	16.9	13.1	22	HT	6,450	19.9 - 30
Active	MCFH-0078-CAA	24	17.1	13.1	22	HT	6,520	20.8 - 30
Obsolete	F3AH-A100-CAV	24	17	13.1	22	HT	7,480	9.5 - 15
Active	F3AH-B100-CAV	24.3	17.2	13.1	22	HT	7,870	12.4 - 20
Obsolete	F3AM-A105-CFV	24	18.3	16.2	22	MT	9,590	11.7 - 15
Active	F3AH-B105-CFV	24	18.3	16.2	22	HT	9,060	11.0 - 15
Obsolete	MCPH-0027-IAA	19.9	11	10.5	22	HT	2,600	9.1 - 15
Active	MCPH-B027-IAA	19.9	11.3	10.5	22	HT	2,690	8.2 - 15
Obsolete	MCEH-0048-CAA	16	15.2	11.8	22	HT	4,110	10.9 - 15
Active	MCEH-A048-CAA	16.1	15.1	11.8	22	HT	4,080	15.9 - 25

Capacity at +25° F Evap, 90° F Ambient for MT / HT Applications Capacity at -10° F Evap, 90° F Ambient for LT Applications

Refrigerant change

Copeland to Copeland condensing unit cross reference

Status	Product Number	Length (in)	Width (in)	Height (in)	Refrigerant	Application	Capacity	MCA / Fuse
Obsolete	MCWH-C036-IAA	17.9	12.8	8.8	22	HT	3,330	8.8 - 15
Active	MCWH-D036-IAA	17.2	12.8	9	22	HT	3,600	9.4 - 15
Obsolete	MCWH-C049-CAA	17.9	12.8	9.3	22	HT	4,640	10.0 - 15
Active	MCWH-D049-CAA	17.9	12.9	9.3	22	HT	4,670	15.0 - 25
Obsolete	MCWH-C056-IAA	17.9	13.3	9.8	22	HT	5,390	16.3 - 25
Active	MCWH-A056-IAA	17.9	12.7	10.5	22	HT	4,730	13.8 - 20
Obsolete	F3WH-C078-IAA	24	17.2	12.1	22	HT	6,980	17.9 - 30
Active	MCWH-0078-CAA	24.2	17.8	10.7	22	HT	7,000	18.8 - 30
Obsolete	F3WM-C105-CFV	24	17.3	12.8	22	MT	10,300	8.8 - 15
Active	F3WH-B105-CFV	19.1	24.2	12.8	22	HT	9,340	9.6 - 15
Obsolete	M4FH-0022-IAA	13.9	11.3	9.7	404A	HT	1,550	7.4 - 15
Active	M4FM-H022-IAA	14	11.3	9.7	404A	MT	1,670	5.5 - 15
Obsolete	M2FL-0023-IAA	13.8	11.8	9.7	134a	LT	740	4.2 - 15
Active	M2FL-H023-IAA	14	11.3	9.7	134a	LT	730	5.4 - 15
Obsolete	M4FL-0025-IAA	13.8	12	9.7	404A	LT	920	6.7 - 15
Active	M4FL-H025-IAA	14	11.8	9.6	404A	LT	930	5.6 - 15
Obsolete	M2TH-0020-IAA	19	8.5	10.5	134a	HT	1,350	5.3 - 15
Active	M2TH-H020-IAA	19	8.5	10.5	134a	HT	1,390	6.1 - 15
Obsolete	M4TM-0020-IAA	19	8.5	10.5	404A	MT	1,520	7.5 - 15
Active	M4TM-H020-IAA	19	8.5	10	404A	MT	1,580	5.6 - 15
Obsolete	M4WL-C025-IAA	24	16.4	9.5	404A	LT	900	6.7 - 15
Active	M4WL-H025-IAA	24	16.4	9.5	404A	LT	900	5.6 - 15
Obsolete	M2FH-0056-IAA	17.4	14	11.8	134a	HT	4,630	15.5 - 20
Active	M2FH-A056-IAA	17.8	14.2	11.8	134a	HT	5,100	15.5 - 20
Obsolete	M4FL-0067-CFA	18.1	14	11.8	404A	LT	3,290	12.7 - 15
Active	M4FL-A067-CAA	17.8	14	11.8	404A	LT	3,170	15.1 - 20
Obsolete	M2EH-0047-IAA	16	15.2	11.8	134a	HT	3,460	12.5 - 20
Active	M2EH-H047-CAA	16	15.1	11.8	134a	HT	3,650	14.0 - 20
Obsolete	M2PH-0047-IAA	19.9	11	10.5	134a	HT	3,460	12.5 - 20
Active	M2PH-H047-CAA	19.9	11.1	10.4	134a	HT	3,640	14.0 - 20
Obsolete	M2PL-0040-IAA	19.9	11.1	10.5	134a	LT	1,540	7.3 - 15
Active	M2PL-H040-IAA	19.9	11.1	10.5	134a	LT	1,530	9.0 - 15
Obsolete	M2WH-C049-IAA	17.9	12.8	9	134a	HT	4,050	11.6 - 20
Active	M2WH-H049-CAA	12.8	17.9	9.2	134a	HT	4,150	13.1 - 20
Obsolete	M2WH-C050-IAA	17.9	12.8	9.8	134a	HT	4,720	12.8 - 20
Active	M2WH-D050-IAA	13.8	18.6	9.3	134a	HT	4,610	11.9 - 20
Obsolete	M2WH-C056-IAA	17.9	12.8	9.8	134a	HT	5,140	13.8 - 20
Active	M2WH-D056-IAA	18.5	13.8	9.8	134a	HT	5,510	13.8 - 20
Obsolete	M4WL-C067-CFA	24	16.4	9.9	404A	LT	3,420	11.7 - 15
Active	M4WL-D067-CAA	24	16.4	9.9	404A	LT	3,290	14.1 - 20
Obsolete	FTAH-B074-IAA	17.4	14.4	11.8	134a	HT	5,450	20.7 - 30
Active	M2FH-0074-CFA	17.5	14.4	11.9	134a	HT	6,370	18.0 - 25
Obsolete	FTAM-A075-IAA	24	16.9	13.1	134a	MT	6,450	16.8 - 25
Active	M2FM-0075-CFA	24	17.5	13.1	134a	MT	7,300	19.0 - 30

Capacity at +25° F Evap, 90° F Ambient for MT / HT Applications Capacity at -10° F Evap, 90° F Ambient for LT Applications Refrigerant change

Tecumseh to Copeland condensing unit cross reference

Brand	Model Number	Length (in)	Width (in)	Height (in)	Refrig.	Application Evap Temp °F	Capacity Btu/Hr	MCA	Max Fuse
Tecumseh	AEA1360YXASS	16	11.5	9.9	134A	-10	610		15
Copeland	M2FL-H023-IAA-111	14.0	11.3	9.7	134A	-10	730	5.4	15
Tecumseh	AEA1360YXASS	16	11.5	9.9	134A	-10	610		15
Copeland	M2FL-H023-IAA-111	14.0	11.3	9.7	134A	-10	730	5.4	15
Tecumseh	AEA2380ZXASB	16	11.5	9.9	404A	-10	1030		15
Copeland	M4FL-H025-IAA-072	14.4	12.8	11.4	404A	-10	930	5.6	15
Tecumseh	AEA2380ZXASB	16	11.5	9.9	404A	-10	1030		15
Copeland	M4FL-H025-IAA-072	14.4	12.8	11.4	404A	-10	930	5.6	15
Tecumseh	AEA2410YXASB	16	11.5	9.9	134A	-10	1180		15
Copeland	M2FL-A025-IAA-103	13.8	11.8	9.7	134A	-10	1070	6.9	15
Tecumseh	AEA2410YXASB	16	11.5	9.9	134A	-10	1180		15
Copeland	M2FL-A025-IAA-103	13.8	11.8	9.7	134A	-10	1070	6.9	15
Tecumseh	AEA2411ZXASB	16	11.5	9.9	404A	-10	1340		15
Copeland	M4FL-0033-IAA-103	13.8	11.5	9.7	404A	-10	1390	7.7	15
Copeland	M4FL-0033-IAA-072	14.5	12	11.4	404A	-10	1390	7.7	15
Tecumseh	AEA2411ZXASS	16	11.5	9.9	404A	-10	1340		15
Copeland	M4FL-0033-IAA-111	13.9	11.2	9.7	404A	-10	1390	7.7	15
Copeland	M4FL-0033-IAA-072	14.5	12	11.4	404A	-10	1390	7.7	15
Tecumseh	AEA2413YXASB	16	11.5	9.9	134A	-10	1480		15
Copeland	M2FL-H040-IAA-103	16.5	12.4	9.7	134A	-10	1530	9.0	15
Tecumseh	AEA2413YXASB	16	11.5	9.9	134A	-10	1480		15
Copeland	M2FL-H040-IAA-103	16.5	12.4	9.7	134A	-10	1530	9.0	15
Tecumseh	AEA3414YXASB	16	11.5	9.9	134A	25	980		15
Copeland	M2HH-H017-IAA-102	16.4	6.6	10.7	134A	25	880	6.0	15
Copeland	M2FH-H017-IAA-103	13.6	11.5	9.7	134A	25	1170	6.0	15
Tecumseh	AEA3414YXASK	16	11.5	9.9	134A	25	980		15
Copeland	M2HH-H017-IAA-102	16.4	6.6	10.7	134A	25	880	6.0	15
Tecumseh	AEA3417YXASK	16	11.5	9.9	134A	25	1280		15
Copeland	M2FH-H020-IAA-111	14.0	11.2	9.7	134A	25	1440	6.0	15
Tecumseh	AEA3417YXASK	16	11.5	9.9	134A	25	1280		15
Copeland	M2FH-H020-IAA-111	14.0	11.2	9.7	134A	25	1440	6.0	15
Tecumseh	AEA3425YXASS	16	11.5	9.9	134A	25	1640		15
Copeland	M2FH-0024-SAA-111	13.9	11.3	9.7	134A	25	1810	6.3	15
Copeland	M4FM-H022-IAA-111	14.0	11.3	9.7	404A	25	1670	5.5	15
Copeland	MCFH-A022-IAA-111	13.9	11.3	9.7	22	25	1650	5.9	15
Tecumseh	AEA3425YXASS	16	11.5	9.9	134A	25	1640		15
Copeland	M2FH-0026-IAA-111	13.8	11.3	9.7	134A	25	2080	6.9	15
Copeland	M2FH-0026-IAA-072	14.5	12	11.4	134A	25	2080	6.9	15
Tecumseh	AEA4430YXASS	16	11.5	9.9	134A	25	2030		15
Copeland	M2FH-0026-IAA-111	13.8	11.3	9.7	134A	25	2080	6.9	15
Copeland	M2FH-0026-IAA-072	14.5	12	11.4	134A	25	2080	6.9	15
Copeland	M2FH-0026-IAA-111	13.8	11.8	9.7	134A	25	2080	6.9	15
Copeland	M2FH-0026-IAA-072	14.5	12	11.4	134A	25	2080	6.9	15
Tecumseh	AEA4430YXASB	16	11.5	9.9	134A	25	2030		15
Copeland	M2FH-0026-IAA-103	13.8	11.5	9.7	134A	25	2080	6.9	15
Copeland	M2FH-0026-IAA-072	14.5	12	11.4	134A	25	2080	6.9	15

Capacity at 90° F Ambient for LT / MT / HT Applications

Refrigerant change

Bold Models= Value Add Models With EK Filter Drier and HMI Moisture Indicator Sightglass

Tecumseh to Copeland condensing unit cross reference

Brand	Model Number	Length (in)	Width (in)	Height (in)	Refrig.	Application Evap Temp °F	Capacity Btu/Hr	MCA	Max Fuse
Tecumseh	AEA4430YXASB	16	11.5	9.9	134A	25	2030		15
Copeland	M2FH-0026-IAA-103	13.8	11.5	9.7	134A	25	2080	6.9	15
Copeland	M2FH-0026-IAA-072	14.5	12	11.4	134A	25	2080	6.9	15
Tecumseh	AEA4440YXASK	16	11.5	9.9	134A	25	2610		15
Copeland	M2FH-A033-IAA-111	13.8	11.3	9.7	134A	25	2620	9.9	15
Tecumseh	AEA4440YXASB	16	11.5	9.9	134A	25	2610		15
Copeland	M2FH-A033-IAA-103	13.8	11.5	9.7	134A	25	2620	9.9	15
Copeland	M2FH-A033-IAA-272	14.5	12	11.4	134A	25	2620	9.9	15
Tecumseh	AEA4448YXASB	16	11.5	9.9	134A	25	3060		20
Copeland	M2FH-0040-IAA-212	16.3	12.5	9.7	134A	25	2870	10.2	15
Tecumseh	AEA4448YXASB	16	11.5	9.9	134A	25	3060		20
Copeland	M2FH-0040-IAA-212	16.3	12.5	9.7	134A	25	2870	10.2	15
Tecumseh	AEA9415EXASB	16	11.5	9.9	22	25	1880		15
Copeland	M2FH-0024-SAA-111	13.9	11.3	9.7	134A	25	1810	6.3	15
Copeland	MCFH-A022-IAA-111	13.9	11.3	9.7	22	25	1650	5.9	15
Copeland	MCFH-B027-IAA-103	13.9	11.5	9.7	22	25	2680	8.2	15
Tecumseh	AEA9415ZXASS	16	11.5	9.9	404A	25	1640		15
Copeland	M4FM-H022-IAA-111	14.0	11.3	9.7	404A	25	1670	5.5	15
Copeland	M4FM-H022-IAA-272	14.4	12.7	11.4	404A	25	1670	5.5	15
Tecumseh	AEA9415EXASB	16	11.5	9.9	22	25	1880		15
Copeland	M2FH-0024-SAA-102	13.9	11	9.7	134A	25	1810	6.3	15
Copeland	MCFH-A022-IAA-111	13.9	11.3	9.7	22	25	1650	5.9	15
Tecumseh	AEA9415ZXASS	16	11.5	9.9	404A	25	1640		15
Copeland	M4FM-H022-IAA-111	14.0	11.3	9.7	404A	25	1670	5.5	15
Copeland	M4FM-H022-IAA-272	14.4	12.7	11.4	404A	25	1670	5.5	15
Tecumseh	AEA9422EXASB	16	11.5	9.9	22	25	2680		15
Copeland	M2FH-A033-IAA-103	13.8	11.5	9.7	134A	25	2620	9.9	15
Copeland	MCFH-B027-IAA-103	13.9	11.5	9.7	22	25	2680	8.2	15
Copeland	MCFH-B027-IAA-272	14.5	12	11.4	22	25	2680	8.2	15
Tecumseh	AEA9422ZXASB	16	11.5	9.9	404A	25	2530		15
Copeland	M4FH-0025-IAA-103	13.8	11.5	9.7	404A	25	2430	10.7	15
Copeland	M4FH-0025-IAA-272	14.5	12	11.4	404A	25	2430	10.7	15
Tecumseh	AEA9422EXASS	16	11.5	9.9	22	25	2680		15
Copeland	MCFH-B027-IAA-111	13.9	11.3	9.7	22	25	2680	8.2	15
Copeland	MCFH-B027-IAA-272	14.5	12	11.4	22	25	2680	8.2	15
Tecumseh	AEA9422ZXASB	16	11.5	9.9	404A	25	2530		15
Copeland	M4FH-0025-IAA-103	13.8	11.5	9.7	404A	25	2430	10.7	15
Copeland	M4FH-0025-IAA-272	14.5	12	11.4	404A	25	2430	10.7	15

Capacity at 90° F Ambient for LT / MT / HT Applications

Bold Models= Value Add Models With EK Filter Drier and HMI Moisture Indicator Sightglass

Refrigerant change

Emerson™ EK filter drier

The EK filter drier is a best-in-class Emerson® product, recommended by Emerson Climate Technologies, Inc. for use with HFC refrigerants.

For more information about the EK filter drier see marketing brochure 2004FC-78 and Application Engineering Bulletin AE-1297



Application

- Premium compacted bead filter-drier with a finer 20 micron final outlet pad for maximum filtration
- Premium Universal replacement liquid line filter drier for CFC, HCFC and HFC refrigerants including R-12, R-134a, R-22, R-404A, R-407C, R-410A, R-500, R-502, R-507

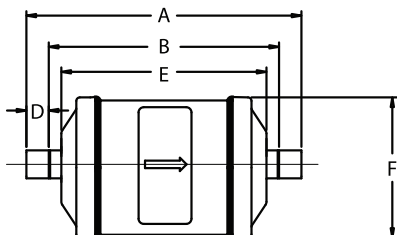
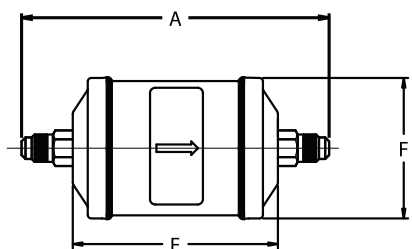
Features

- Filtration first for more effective use of surface area of desiccant
- High moisture and acid removal
- Solid copper fittings
- Corrosion resistant epoxy powder paint finish
- Approved for POE Oils with Copeland® products
- Shock resistant steel shell construction

Specifications

- Desiccant blend - optimized for high water capacity and acid capacity
- Filtration: 20 microns
- Maximum working pressure: 680 psig
- UL/CUL file number: SA 3124

Dimensional Data



For more information see 2003FC-91 Wholesaler Catalog for Emerson® Valves, Controls and System Protectors

Ordering Information

PCN	Description	Dimensions (in)					Weight (lbs)
		A	B	D	E	F	
060009	EK 032	4.38	-	-	2.56	1.63	0.50
060012	EK 032S	3.88	3.13	0.38			
060011	EK 032FM	3.50	-	-			
060010	EK 032MF	3.50	-	-			
060013	EK 033	4.69	-	-	3.00	0.88	0.50
060014	EK 033S	4.06	3.19	0.44			
047601	EK 052	4.81	-	-	3.00	0.88	0.50
057013	EK 052MF	4.50	-	-			
063978	EK 0525S	3.57	0.32	2.64	3.00	0.88	0.50
047602	EK 052S	4.44	3.69	0.38			
047603	EK 053	5.13	-	-	3.81	2.63	1.25
047604	EK 053S	4.50	3.63	0.44			
047605	EK 082	5.63	-	-	4.75	3.06	3.75
047606	EK 082S	5.25	4.50	0.38			
049551	EK 0825S	5.38	4.38	0.50	4.75	3.06	3.75
056906	EK 083MF	5.94	-	-			
047607	EK 083	5.31	4.44	0.44	7.50	3.06	3.75
047608	EK 083S	5.31	4.44	0.44			
047609	EK 084	6.19	-	-	7.50	3.06	3.75
047610	EK 084S	5.38	4.38	0.50			
047611	EK 162	6.56	-	-	7.50	3.06	3.75
047612	EK 162S	6.19	5.44	0.38			
056045	EK 1625S	5.94	5.31	0.31	7.50	3.06	3.75
047613	EK 163	6.88	-	-			
047614	EK 163S	6.25	5.44	0.44	7.50	3.06	3.75
047615	EK 164	7.06	-	-			
047616	EK 164S	6.31	5.31	0.50	7.50	3.06	3.75
047617	EK 165	7.50	-	-			
047618	EK 165S	6.56	5.31	0.63	7.50	3.06	3.75
047619	EK 167S	7.50	5.63	0.75			
048210	EK 303	9.63	-	-	7.50	3.06	3.75
048211	EK 303S	9.00	8.13	0.44			
048212	EK 304	9.88	-	-	7.50	3.06	3.75
048213	EK 304S	9.13	8.13	0.50			
048214	EK 305	10.31	-	-	7.50	3.06	3.75
048215	EK 305S	9.31	8.06	0.63			
048216	EK 306S	9.69	8.44	0.75	7.50	3.06	3.75
048217	EK 307S	9.88	8.38	0.75			
048218	EK 309S	10.25	8.44	0.94	7.50	3.06	3.75
048219	EK 413	9.75	-	-			
048220	EK 414	10.00	-	-	7.50	3.06	3.75
048221	EK 414S	9.25	8.25	0.50			
048222	EK 415	10.44	-	-	7.50	3.06	3.75
048223	EK 415S	9.44	8.19	0.63			
048224	EK 417S	10.00	-	-	7.50	3.06	3.75
048225	EK 419S	10.94	8.50	0.75			
048228	EK 757S	15.44	13.94	0.94	13.06	7.50	7.50
048229	EK 759S	15.75	13.88	0.94			

¹Does not include weld bead

Standard product offering

Nomenclature (example: EK-083S)

EK	08	3	S
Drier Series	Unit Size (in cu. in.)	Connection Size (in 1/8")	S=ODF connections (omit for SAE)

EK Filter Drier

Capacity Data

Description	Connections Inlet/Outlet	Flow Capacity Tons @ 1 psi ΔP ^{1,4} (For kW, multiply tons by 3.5)					Water Capacity ² Drops of Water ³													
		R-12		R-134a		R-407C	R-22		R-407C		R-410A		R-404A/507		R-502					
		75°F	125°F	75°F	125°F	75°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F				
EK 03 2 FM	1/4 Fem/1/4 Male SAE	1.6	2.0	2.2	2.1	1.4														
EK 03 2 MF	1/4 Male/1/4 Fem SAE	1.6	2.0	2.2	2.1	1.4														
EK 03 2	1/4 SAE	1.6	2.0	2.2	2.1	1.4														
EK 03 2 S	1/4 ODF	2.2	2.7	2.9	2.9	2.0	47	41	40	37	40	33	33	25	21	19	38	37	42	37
EK 032 SV	1/4 ODF	2.2	2.7	2.9	2.9	2.0														
EK 03 3	3/8 SAE	2.5	3.0	3.3	3.2	2.2														
EK 03 3 S	3/8 ODF	2.5	3.0	3.3	3.2	2.2														
EK 05 2 FM	1/4 Fem/1/4 Male SAE	1.7	2.1	2.3	2.2	1.5														
EK 05 2 MF	1/4 Male/1/4 Fem SAE	1.7	2.1	2.3	2.2	1.5														
EK 05 2	1/4 SAE	1.7	2.1	2.3	2.2	1.5														
EK 05 2 S	1/4 ODF	2.7	3.3	3.6	3.5	2.4	133	119	116	106	114	97	95	75	64	58	109	106	120	107
EK 05 3 MF	3/8 Male/3/8 Fem SAE	2.9	3.5	3.8	3.7	2.5														
EK 05 3	3/8 SAE	2.9	3.5	3.8	3.7	2.5														
EK 05 3 S	3/8 ODF	3.6	4.4	4.8	4.7	3.2														
EK 08 2 FM	1/4 Fem/1/4 Male SAE	1.9	2.3	2.5	2.4	1.7														
EK 08 2 MF	1/4 Male/1/4 Fem SAE	1.9	2.3	2.5	2.4	1.7														
EK 08 2	1/4 SAE	1.9	2.3	2.5	2.4	1.7														
EK 08 2 S	1/4 ODF	2.5	3.1	3.4	3.3	2.2														
EK 08 25 S	5/16 ODF	2.9	3.5	3.8	3.7	2.5														
EK 08 3 MF	3/8 Male/3/8 Fem SAE	3.3	4.0	4.3	4.3	2.9	274	240	237	218	235	200	195	155	159	118	224	217	245	217
EK 08 3	3/8 SAE	3.3	4.0	4.3	4.3	2.9														
EK 08 3 S	3/8 ODF	3.7	4.5	4.9	4.8	3.3														
EK 08 4	1/2 SAE	5.5	6.7	7.3	7.1	4.9														
EK 08 4 S	1/2 ODF	5.8	7.1	7.7	7.5	5.1														
EK 16 2 MF	1/4 Male/1/4 Fem SAE	1.9	2.3	2.5	2.4	1.7														
EK 16 2	1/4 SAE	1.9	2.3	2.5	2.4	1.7														
EK 16 2 S	1/4 ODF	2.5	3.1	3.4	3.3	2.2														
EK 16 25 S	5/16 ODF	2.5	3.1	3.4	3.3	2.2														
EK 16 3	3/8 SAE	3.2	3.9	4.2	4.1	2.8	347	301	371	341	368	313	305	240	206	186	350	340	306	272
EK 16 3 S	3/8 ODF	3.6	4.4	4.8	4.7	3.2														
EK 16 4 S	1/2 ODF	7.0	8.5	9.2	9.0	6.2														
EK 16 5	5/8 SAE	8.0	9.7	10.5	10.3	7.0														
EK 16 5 S	5/8 ODF	8.3	10.1	10.9	10.7	7.3														
EK 16 7 S	7/8 ODF	12.7	15.5	16.8	16.5	11.2														
EK 30 3	3/8 SAE	3.5	4.3	4.7	4.6	3.1														
EK 30 3 S	3/8 ODF	5.2	6.3	6.8	6.7	4.6														
EK 30 4	1/2 SAE	6.6	8.1	8.8	8.6	5.9														
EK 30 4 S	1/2 ODF	8.2	10.0	10.8	10.6	7.2														
EK 30 5	5/8 SAE	8.7	10.6	11.5	11.3	7.7	601	526	664	611	657	561	548	434	515	355	627	608	536	477
EK 30 6 S	3/4 ODF	12.1	14.8	16.0	15.7	10.7														
EK 30 7 S	7/8 ODF	13.8	16.8	18.2	17.9	12.2														
EK 30 9 S	1 1/8 ODF	16.1	19.6	21.2	20.8	14.2														
EK 41 3	3/8 SAE	3.5	4.3	4.7	4.6	3.1														
EK 41 4	1/2 SAE	8.5	10.4	11.3	11.1	7.5														
EK 41 4 S	1/2 ODF	8.9	10.8	11.7	11.5	7.8	1104	971	938	854	919	785	765	607	715	465	876	850	991	884
EK 41 5	5/8 SAE	9.8	12.0	13.0	12.8	8.7														
EK 41 7 S	7/8 ODF	16.6	20.3	22.0	21.6	14.7														
EK 41 9 S	1 1/8 ODF	22.7	27.7	30.0	29.4	20.1														
EK 75 7 S	7/8 ODF	18.2	22.2	24.1	23.6	16.1	2368	2159	2159	2019	2159	1880	1810	1460	1460	1111	2019	2019	2229	2019
EK 75 9 S	1 1/8 ODF	26.8	32.7	35.4	34.8	23.7														

¹ All ratings in accordance with ARI Standard 710-04. 86°F liquid refrigerant temperature
5°F saturated vapor temperature
3.1 lbs./min./ton for R-134a
2.9 lbs./min./ton for R-22 and R-407C
4.0 lbs./min./ton for R-404A/507 and R-12
2.7 lbs./min./ton for R-410A

² Water Capacities are based on:
Equilibrium Point Dryness (EPD) of:
50 parts per million for R-134a, R404-A/507,
R-410A and R-407C
60 parts per million for R-22
15 parts per million for R-12

³ 20 drops of water = 1 gram = 1 cc

⁴ For 2 PSI ΔP, Multiply values by 1.4

Refrigerant Volume (oz.)

Unit Size	R-12		R-134a		R-22		R-407C		R-410A		R-404A/R-507		R-502	
	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F
03	2.9	2.6	2.6	2.3	2.6	2.3	2.5	2.1	2.3	1.9	2.3	1.9	2.7	2.3
05	6.5	5.9	6.0	5.4	5.9	5.3	5.6	4.9	5.3	4.4	5.2	4.4	6.0	5.3
08	8.3	7.6	7.6	6.9	7.5	6.8	7.2	6.3	6.7	5.7	6.6	5.6	7.7	6.8
16	10.2	9.4	9.4	8.6	9.3	8.4	8.9	7.8	8.3	7.0	8.2	6.9	9.5	8.4
30	28.7	26.3	26.4	23.9	26.1	23.5	24.9	21.9	23.3	19.6	22.9	19.4	26.7	23.4
41	40.0	36.4	36.9	33.1	36.4	32.5	34.7	30.3	32.5	27.2	31.9	26.8	37.2	32.4
75	72.4	66.3	66.7	60.3	65.8	59.2	62.8	55.2	58.7	49.5	57.7	48.9	67.2	59.0

For more information see 2003FC-91 Wholesaler Catalog for Emerson® Valves, Controls and System Protectors

HMI-Hermetic Moisture Indicators

Application

- The HMI is designed to provide an accurate method of determining the moisture content of a system's refrigerant.
- The HMI has a unique high accuracy moisture indicator for CFC, HCFC, and HFC refrigerants.

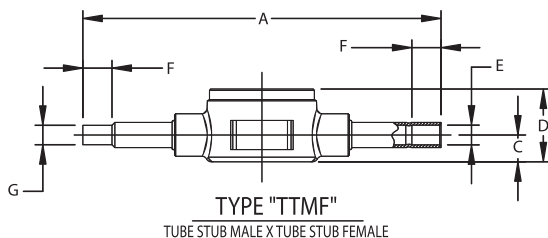
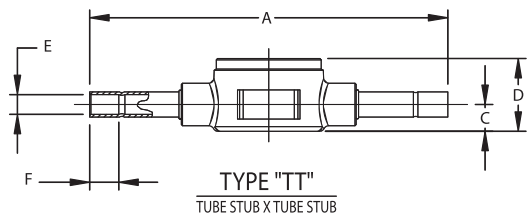
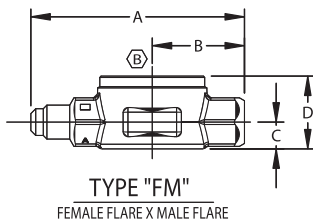
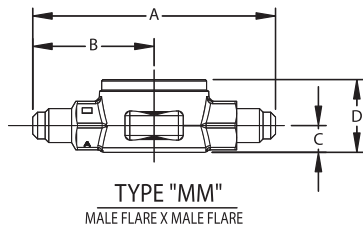
Features

- Highest sensitivity moisture indicator available
- Hermetic, leak-free construction
- 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 for fewer leaks
- Solid copper connections

Specifications

- Maximum working pressure: 680 psig
- UL/CUL file number: SA 9566

Dimensional Data (in)



If it's not Blue,
It's not DRY!

Ordering Information

PCN	Description	Series	Connection Size	
065391	HMI-1MM2	Male Flare x Male Flare	1/4	
065392	HMI-1MM3		3/8	
065393	HMI-1MM4		1/2	
065394	HMI-1MM5		5/8	
065395	HMI-1MM6		3/4	
065405	HMI-1TT2		Sweat x Sweat (ODF)	1/4
065406	HMI-1TT3	3/8		
065407	HMI-1TT4	1/2		
065408	HMI-1TT5	5/8		
065409	HMI-1TT6	3/4		
065410	HMI-1TT7	7/8		
065411	HMI-1TT9	1 1/8		
065396	HMI-1FM2	Female Flare x Male Flare		1/4
065397	HMI-1FM3			3/8
065398	HMI-1FM4		1/2	
065622	HMI-1TT2MF	Sweat x Sweat (ODM x ODF)	1/4	
065814	HMI-1TT3MF		3/8	
065979	HMI-1TT4MF		1/2	
065980	HMI-1TT5MF		5/8	

Standard product offering

Nomenclature (example: HMI 1TT4)

HMI	1	TT	4
Hermetic Moisture Indicator	Series	Connection Style TT = Sweat x Sweat	Connection Size (in 1/8")

Moisture Content Color Code (ppm H₂O)

Indication Liquid Temp.	Dry (Dark Blue)			Caution (Purple)			Wet (Salmon)		
	75°F	100°F	125°F	75°F	100°F	125°F	75°F	100°F	125°F
R-12	1.4	2.5	4	5	9	15	25	43	70
R-134A	20	35	60	35	55	85	130	160	190
R-22	25	35	50	40	65	90	145	205	290
R-407C	26	40	64	42	68	109	150	230	370
R-410A	30	55	75	50	85	120	165	290	420
R-404A/507	15	25	45	33	50	80	120	150	180

Dimensional Data (in)

Type Number	Connection Size	A	B	C	D	E	F _{Min}	G
HMI - 1MM2	1/4 SAE	3.13	1.56	0.34	0.94			
HMI - 1MM3	3/8 SAE	3.38	1.69	0.34	0.94			
HMI - 1MM4	1/2 SAE	3.62	1.81	0.47	1.19			
HMI - 1MM5	5/8 SAE	3.88	1.94	0.47	1.19			
HMI - 1MM6	3/4 SAE	5.00	2.50	0.59	1.53			
HMI - 1FM2	1/4 SAE FM	2.75	1.19	0.34	0.94			
HMI - 1FM3	3/8 SAE FM	3.00	1.31	0.47	1.19			
HMI - 1FM4	1/2 SAE FM	3.22	1.41	0.47	1.19			
HMI - 1TT2	1/4 ODF	5.56		0.34	0.94	0.25	0.38	
HMI - 1TT3	3/8 ODF	5.61		0.34	0.94	0.38	0.40	
HMI - 1TT4	1/2 ODF	5.87		0.47	1.19	0.50	0.50	
HMI - 1TT5	5/8 ODF	5.87		0.61	1.19	0.63	0.63	
HMI - 1TT6	3/4 ODF	6.56		0.61	1.50	0.75	0.63	
HMI - 1TT7	7/8 ODF	6.31		0.61	1.50	0.88	0.75	
HMI - 1TT9	1 1/8 ODF	6.59		0.67	1.37	1.13	0.90	
HMI - 1TT2MF	1/4 ODM x 1/4 ODF	5.56		0.34	0.94	0.25	0.38	0.25
HMI - 1TT3MF	3/8 ODM x 3/8 ODF	5.61		0.34	0.94	0.38	0.38	0.38
HMI - 1TT4MF	1/2 ODM x 1/2 ODF	5.87		0.47	1.19	0.50	0.50	0.50
HMI - 1TT5MF	5/8 ODM x 5/8 ODF	5.87		0.61	1.19	0.63	0.50	0.62

For more information see 2003FC-91 Wholesaler Catalog for Emerson® Valves, Controls and System Protectors

Emerson™ HF/HFK series thermal expansion valve

The HF series is a balanced ported valve designed for refrigeration, air conditioning and heat pump applications.

Features

- Stainless steel replaceable power element eliminates corrosion and prevents valve failure
- Two body sizes provide capacities from 1/4 to 20 ton

Standard Body – HF & HFK

- The HF is offered several ways:
 - *Pre-packaged HFK service kits* – Include a mix of bodies and power elements with a complete set of cages to serve the most applications with a minimum of parts
 - *Individual components* – Bodies, cages, & power elements may be ordered separately
 - *Finished valves* – Assembled valves ready for immediate installation
- Bi-Flow capability up to 5-1/2 tons R-22 allows one valve to control the superheat in both cooling and heating modes

Extended Body – HF

- Capacity range from 8 to 20 tons (R-22)
- Finished valve only



NOTE: If the HF body is stamped HFK, the cage is replaceable.

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

Nomenclature example: HFESC 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 Balanced Port Design	Superheat Adjustment N = Non-Adjustable Omit for Adjustable	Equalizer E=External (Omit for Internal)	Connection Type S = Solder (Omit for SAE Flare)	Removable Inlet Strainer (optional) C = Inlet Strainer (ODF only)	Bleed Hole (optional) (Omit for no bleed hole)	Capacity Nominal Rating in Tons (See nominal capacity table below)	Refrigerant Code +F = R-12 • H = R-22 +M = R-134a • N = R-407C * P = R-507 * R = R-502 * S = R-404A	Charge Code C = medium temp CA = heat pump W(MOP) = press. limiting Z = low temp AA = wide range	Capillary Tube Length 5 FT (std)	Inlet x Outlet Connection Sizes 1/4 x 3/8 3/8 x 1/2	Connection Type SAE = flare ODF = solder	Configuration ANG = 90° angle S/T = straight-thru

+ = R-12 and R-134a are interchangeable refrigerant charges
 * = R-507, R-502 and R-404A are interchangeable refrigerant charges
 • = R-22 and R-407C are interchangeable refrigerant charges

HF Series-Nominal* Capacity Tables in Tons (kW)

Standard Body HF

R-12	R-134a	R-22/R-407C	R-502/R-404A/R-507
1/8 (0.4)	1/4 (0.9)	1/4 (0.9)	1/8 (0.4)
1/4 (0.9)	1/2 (1.8)	1/2 (1.8)	1/4 (0.9)
1/2 (1.8)	3/4 (2.7)	1 (3.5)	1/2 (1.8)
1 (3.5)	1 (3.5)	1 1/2 (5.3)	1 (3.5)
1 1/4 (4.4)	1 1/2 (5.3)	2 (7.0)	1 1/4 (4.4)
1 1/2 (5.3)	1 3/4 (6.2)	2 1/2 (8.8)	1 1/2 (5.3)
2 (7.0)	2 1/2 (8.8)	3 (11.0)	2 (7.0)
3 1/2 (12.0)	4 (14.0)	5 1/2 (20.0)	3 1/2 (12.0)

Extended Body HF

R-12	R-134a	R-22/R-407C	R-502/R-404A/R-507
5 (17.0)	6 (21.0)	8 (28.0)	5 (17.0)
6 (21.0)	7 1/2 (27.0)	10 (35.0)	7 (27.0)
9 (32.0)	11 (39.0)	15 (53.0)	10 (35.0)
12 (42.0)	14 (50.0)	20 (70.0)	13 (46.0)

All capacities shown are at 100°F condensing, 40°F evaporator temperature.
 *See Extended Capacity Tables for ratings at a wide range of conditions per ARI standard 750.

For more information see 2003FC-91 Wholesaler Catalog for Emerson® Valves, Controls and System Protectors

Ordering Information

Use the following tables to order individual components.

HFK Body Selection Table

PCN	Description	Type	Connections (Inlet x Outlet)
064881	KT-20298-1	HFK	1/4 x 1/2 SAE Ang Inlet
064882	KT-20298-2	HFK	3/8 x 1/2 SAE Ang Inlet
064883	KT-20298-3	HFKE	1/4 x 1/2 SAE Ang Inlet
064884	KT-20298-4	HFKE	3/8 x 1/2 SAE Ang Inlet
064885	KT-20298-5	HFKSC	3/8 x 1/2 ODF Ang Inlet w/ Strainer
064886	KT-20298-6	HFKESC	3/8 x 1/2 ODF Ang Inlet w/ Strainer
064887	KT-20298-7	HFKS	3/8 x 1/2 ODF S/T
064888	KT-20298-8	HFKS	3/8 x 5/8 ODF S/T
064889	KT-20298-9	HFKS	1/2 x 5/8 ODF S/T
064890	KT-20298-10	HFKS	1/2 x 7/8 ODF S/T
064891	KT-20298-11	HFKES	3/8 x 1/2 ODF S/T
064892	KT-20298-12	HFKES	3/8 x 5/8 ODF S/T
064895	KT-20298-13	HFKES	1/2 x 5/8 ODF S/T
064896	KT-20298-14	HFKES	1/2 x 7/8 ODF S/T

HF & HFK Power Element Table

PCN	Description	System Refrigerant(s)	Application
053769	X26300-FW15-1	R-134a/R-12	Low Temp MOP
054798	X26300-FW35-1	R-134a/R-12	Low Temp MOP
063869	X26300-FW55-1	R-134a/R-12	Low Temp MOP
053766	X26300-FZ-1	R-134a/R-12	Low Temp
053763	X26300-FC-1	R-134a/R-12	Medium Temp
058074	X26300-MC-1	R-134a	Medium Temp
053767	X26300-HZ-1	R-22/R-407C	Low Temp
057834	X26300-HCA-1	R-22/R-407C	Heat Pump
057764	X26300-HW100-1	R-22/R-407C	AC MOP
053764	X26300-HC-1	R-22/R-407C	A/C Med. Temp
058085	X26300-SW45-1	R-404/ R-507/ R-502	Low Temp MOP
058082	X26300-SZ-1	R-404/ R-507/ R-502	Low Temp
058083	X26300-SC-1	R-404/ R-507/ R-502	Medium Temp

HFK Cage Nominal* Capacity Table

PCN	Description ¹	Cage Code	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

¹ Cage Kit includes Cage, Insertion Tool and ID Clips.

*All capacities shown are at 100°F condensing, 40°F evaporator temperature.

See Extended Capacity Tables for ratings at a wide range of conditions per ARI standard 750.

Cage Kit (PCN 064879)

Item	Qty
Size 0 Cage (1/4 ton R-22)	2
Size 1 Cage (1/2 ton R-22)	2
Size 2 Cage (1 ton R-22)	2
Size 3 Cage (1 1/2 ton R-22)	2
Size 4 Cage (2 ton R-22)	2
Size 5 Cage (2 1/2 ton R-22)	2
Size 6 Cage (3 ton R-22)	2
Size 7 Cage (5 1/2 ton R-22)	2
Insertion Tool	1
Oil Bottle	1
Cage ID Tags	16

Replacement Parts – SAE Inlet

PCN	Part Number	Description
027385	X-11176-1	Filter Screen
058707	27676-1	Seal Cap

Replacement Parts- HFSC & HFESC Only

PCN	Kit Number	Description
057686	KT-20264	Includes seal cap, gasket o-ring, screen, spring

HFK Accessories

PCN	Description
064880	Service Box
064897	Cage Box (Empty)
064898	Insertion Tool
064899	Oil Bottle
065203	Cage Gasket Kit (12 sets)

TXV SUPERHEAT ADJUSTMENT

Valve Family	Total Turns	Degrees of SH Per Turn					
		R-22		R-134a	R-404A/507		R410A
		+20 F	-20 F	+20 F	+20F	-20F	+40F
A	8	3.0	5.0	4.5	2.0	4.0	2.0
C	12	–	–	–	–	–	4.0
HF	10	2.2	4.2	3.8	1.8	3.2	N/A
TF	10	3.0	5.0	4.5	2.0	4.0	2.0
TRAE	10	2.2	4.2	3.8	1.8	3.2	N/A
TCLE	32	0.8	1.5	1.0	0.5	1.0	N/A

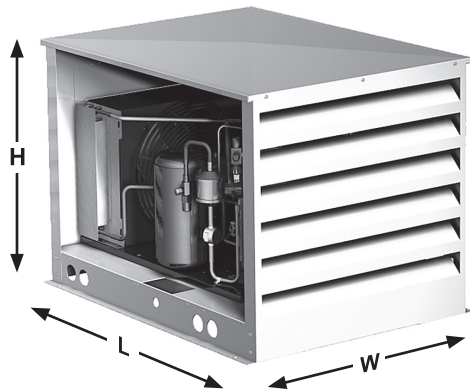
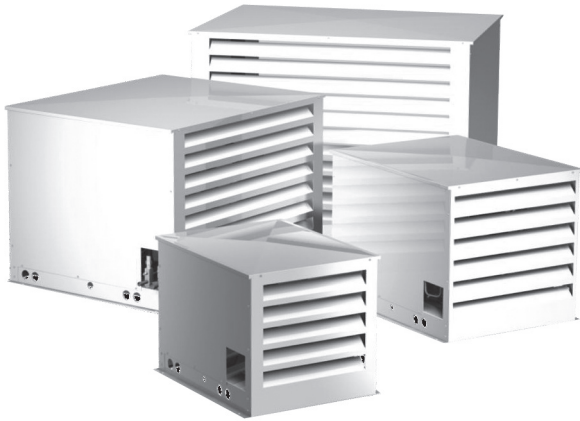
Turn adjustment clockwise to increase superheat, counterclockwise to decrease superheat. To return to approximate original factory setting, turn adjustment stem counterclockwise until the spring is completely unloaded (reaches stop or starts to ratchet). Then, turn it back in one half of the Total Turns shown on the chart.

Standard Product Offering

For more information see 2003FC-91 Wholesaler Catalog for Emerson® Valves, Controls and System Protectors

Flex-Line hoods for SystemPro™ condensing units

- Four outdoor enclosures to cover all ½ to 6 HP SystemPro units
- Assembly time reduced 50%
- UL listed
- Elevated rails
- Sliding panels for ease of service
- Ample space for additional features



Hood Selection

Copeland™ Model	Dimensions (in.)			Hood	Flex-Line Hood
	L	W	H		
SystemPro® Air-Cooled					
M2FH-H017	13.6	11.5	9.7	005-0882-00 / -09	505-7066-00
M2FH-0026	13.8	11.5	9.7	005-0882-00 / -09	505-7066-00
M2FH-0033	13.8	11.8	9.7	005-0882-00 / -09	505-7066-00
M2FH-A056	17.8	14.2	11.8	005-0882-00 / -09	505-7066-00
M4FH-0025	13.8	11.8	9.7	005-0882-00 / -09	505-7066-00
M4FH-A036	16.1	12.7	11.8	005-0882-00 / -09	505-7066-00
M2FL-0020	13.8	11.1	9.7	005-0882-00 / -09	505-7066-00
M2FL-A025	13.8	11.8	9.7	005-0882-00 / -09	505-7066-00
M2FL-B033	16.2	12.4	9.7	005-0882-00 / -09	505-7066-00
M4FL-0040	16.2	13.1	11.8	005-0882-00 / -09	505-7066-00
M4FL-0051	17.4	13.1	11.9	005-0882-00 / -09	505-7066-00
M4FL-A067	17.8	14.5	11.8	005-0882-00 / -09	505-7066-00
MCFH-B027	13.9	11.5	9.7	005-0882-00 / -09	505-7066-00
MCFH-B036	16	12.8	11.7	005-0882-00 / -09	505-7066-00
MCFH-A056	17.4	14.4	11.8	005-0882-00 / -09	505-7066-00
M4FF-0056	17.4	14.4	11.8	005-0882-00 / -09	505-7066-00
M4FF-0080	24	16.8	13.1	005-0882-00 / -09	505-7066-01
FJAF-0108	24	17.3	13	005-0882-00 / -09	505-7066-01
FJAL-B200	24.1	19.5	16.2	005-0882-02 / -10	505-7066-01
FJAL-B301	25.2	34	19	005-0882-01 / -11	505-7066-02
FJAL-A390	25.2	34	19	005-0882-01 / -11	505-7066-02
FJAF-0106	24	18.3	16.1	005-0882-00 / -09	505-7066-01
FJAM-A200	25.2	34.1	18.9	005-0882-01 / -11	505-7066-02
FJAM-B400	28.2	44.1	26.8	005-0882-04	505-7066-03
M2FH-0074	17.5	14.4	11.9	005-0882-00 / -09	505-7066-00
FTAH-A101	24	16.8	15.9	005-0882-00 / -09	505-7066-01
FTAH-A150	24	18.4	16.3	005-0882-02 / -10	505-7066-01
FTAH-A201	25.2	34	18.9	005-0882-01 / -11	505-7066-02
M2FL-0050	16.1	12.7	12.5	005-0882-00 / -09	505-7066-00
FGAH-A151	24	18.3	16.1	005-0882-02 / -10	505-7066-01
FGAH-A201	25.2	34	19	005-0882-01 / -11	505-7066-02
FGAH-A301	25.2	34	19	005-0882-01 / -11	505-7066-02
FGAH-A401	28.6	44.1	26.8	005-0882-04	505-7066-03
FGAH-A501	28.6	44.1	26.8	005-0882-04	505-7066-03
MCFH-0078	24	17.1	13.1	005-0882-00 / -09	505-7066-01
F3AH-B100	24.3	17.2	13.1	005-0882-00 / -09	505-7066-01

Hood Specification Data

Emerson Part #	Mfg. Part #	External Dimensions (in.)			Internal Dimensions (in.)			Unit Size*
		L	W	H	L	W	H	
505-7066-00	N/A	24.3	20.2	18.7	22.5	18.4	15.0	1/2 Hp to 3/4 Hp
505-7066-01	N/A	30.3	23.5	22.7	28.5	22.2	19	3/4 Hp to 2 Hp
505-7066-02	N/A	32.3	38.3	22.7	30.6	37.1	24.0	2 Hp to 3 Hp
505-7066-03	N/A	35.3	48	34.7	33.6	46.2	30.7	4 Hp to 6 Hp
005-0882-03	CHO-13	35.5	24.0	25.0	34.5	24.0	21.0	
005-0882-05	CHO-16	46.5	38.0	38.0	45.5	38.0	33.0	
005-0882-06	CHO-17	42.5	74.0	48.5	41.5	74.0	40.5	

UL Listed for outdoor use * Specific model to hood cross reference should be used.

Flex-Line hoods for semi-hermetic condensing units

Hood Selection

Copeland™ Model	Dimensions (in.)			Hood	Flex-Line Hood
	L	W	H		
Copelametic™					
E3AH-A050	19.5	14.8	12.1	005-0882-00 / -09	505-7066-00
E3AM-A075	24	17.9	13.2	005-0882-00 / -09	505-7066-01
E8AJ-A075	24	17.9	13.2	005-0882-00 / -09	505-7066-01
E8AL-A050	19.5	16.3	12.1	005-0882-00 / -09	505-7066-00
E8AL-A075	24	17.9	13.2	005-0882-00 / -09	505-7066-01
E8AM-A050	19.5	14.7	12	005-0882-00 / -09	505-7066-00
ENAG-A050	19.5	16.3	12.1	005-0882-00 / -09	505-7066-00
ENAG-A075	24	17.9	12	005-0882-00 / -09	505-7066-01
CBAM-0103	33.4	20	19.1	005-0882-03	N/A
C3AM-0101	33.4	20	19.1	005-0882-03	N/A
C8AJ-0100	33.4	20	19.1	005-0882-03	N/A
C8AJ-0200	33.4	20	19.1	005-0882-03	N/A
ENAG-A100	24	17.9	13.2	005-0882-00 / -09	505-7066-01
E3AM-A101	26.4	18.4	16.2	005-0882-01 / -11	505-7066-01
CPAK-0150	33.4	20	19.1	005-0882-03	N/A
C3AH-0150	33.4	20	19.1	005-0882-03	N/A
C3AM-0303	39	30	29.5	005-0882-05	N/A
C7AB-0150	33.4	20	19.1	005-0882-03	N/A
C7AB-0200	33.4	20	19.1	005-0882-03	N/A
C7AB-0300	39	30	29.5	005-0882-05	N/A
C8AL-0151	33.4	20	19.1	005-0882-03	N/A
C8AL-0200	33.4	20	19.1	005-0882-03	N/A
CNAG-0200	33.4	20	19.1	005-0882-03	N/A
C8AJ-0300	38.4	30	29.1	005-0882-05	N/A
C8AM-0202	33.4	20	19.1	005-0882-03	N/A
CJAL-0300	39	30	29.5	005-0882-05	N/A
CLAL-0300	39	30	29.5	005-0882-05	N/A
CPDK-0300	38.4	30	29.1	005-0882-05	N/A
CPDK-0600	44.9	36	31	005-0882-05	N/A
CPDK-0750	44.1	36	31.5	005-0882-05	N/A
CJDL-0400	38.4	30	29.1	005-0882-05	N/A
CMDL-0400	38.4	30	29.1	005-0882-05	N/A
C8DJ-0500	38.4	30	29.1	005-0882-05	N/A
C8DJ-0501	38.4	30	29.1	005-0882-05	N/A
C8DJ-0750	44.9	36	31	005-0882-05	N/A
C8DJ-1000	39.8	66	36.2	005-0882-06	N/A

Flex-Line hoods for scroll condensing units

Hood Selection

Copeland™ Model	Dimensions (in.)			Hood	Flex-Line Hood
	L	W	H		
Copeland Scroll™					
FTAH-A13Z	24	18.3	16.3	005-0882-01 / -10	505-7066-01
FJAM-A15Z	24.1	18.6	16.2	005-0882-01 / -10	505-7066-01
FTAH-A15Z	24	18.3	16.3	005-0882-01 / -10	505-7066-01
FFAS-A20Z	25.2	34	19	005-0882-01 / -11	505-7066-02
FFAS-A25Z	25.2	34	19	005-0882-01 / -11	505-7066-02
FFAS-A30Z	25	34	19	005-0882-01 / -11	505-7066-02
FFAS-A35Z	25.2	34	19	005-0882-01 / -11	505-7066-02
FFAS-A40Z	28.2	44.1	26.8	005-0882-04	505-7066-03
FFAS-A50Z	28.2	44.1	26.8	005-0882-04	505-7066-03
FFAS-A60Z	28.2	44.1	26.8	005-0882-04	505-7066-03
FPAN-070Z	28.5	44	36.8	005-0882-04	N/A
FPAN-080Z	28.5	44	36.8	005-0882-04	N/A
FPAN-091Z	28.5	44	36.8	005-0882-04	N/A
FPAN-101Z	28.5	44	36.8	005-0882-04	N/A
FFAP-015Z	24.1	18.3	16.6	005-0882-02 / -10	505-7066-01
FFAP-017Z	24.1	18.3	16.6	005-0882-02 / -10	505-7066-01
FFAP-020Z	25.2	34.1	19	005-0882-01 / -11	505-7066-02
FFAP-022Z	25.2	34.1	19	005-0882-01 / -11	505-7066-02
FFAP-030Z	25.2	34.1	19	005-0882-01 / -11	505-7066-02
FFAP-032Z	25.2	34.1	19	005-0882-01 / -11	505-7066-02
FFAP-040Z	28.2	44.1	26.8	005-0882-04	505-7066-03
FFAP-042Z	28.2	44.1	26.8	005-0882-04	505-7066-03
FFAP-050Z	28.2	44.1	26.8	005-0882-04	505-7066-03
DJAL-015Z	25.2	34.3	19	005-0882-01 / -11	505-7066-02
DJAL-020Z	25.2	34.3	19	005-0882-01 / -11	505-7066-02
DJAL-022Z	25.2	34.3	19	005-0882-01 / -11	505-7066-02
DJAL-026Z	25.2	34.3	19	005-0882-01 / -11	505-7066-02
DJAL-030Z	25.2	34.3	19	005-0882-01 / -11	505-7066-02
DJAL-041Z	28.2	44.1	26.8	005-0882-04	505-7066-03
DJAL-051Z	28.2	44.1	26.8	005-0882-04	505-7066-03
DJAL-060Z	28.2	44.1	26.8	005-0882-04	505-7066-03

Refrigerants and lubricants approved for use in Copeland™ compressors

	Refrigerants	Similar to	Application		Lubricant choices			Comments
			Retrofit	New	Preferred	Alternate #1	Alternate #2	
Ozone depleting	CFC R-12		L,M		MIN	AB & MIN		Phased out in 1996
	CFCL-502		L,M		MIN	AB & MIN	POE-32	Phased out in 1996
	HCFC R-22		L,M,H		MIN	AB & MIN	POE-32	No new equipment 2010
Interims	HCFC R-401A	R-12	M,H		AB & MIN	POE-32 & MIN	POE-32	Service only Suva™ MP39
	HCFC R-401B	R-12	L,M		AB & MIN	POE-32 & MIN	POE-32	Service only Suva MP66
	HCFC R-402A	R-502	L,M		AB & MIN	POE-32 & MIN	POE-32	Service only Suva HP80
	HCFC R-402B	R-502	L,M		AB & MIN	POE-32 & MIN	POE-32	Service only Suva HP81
	HCFC R-408A	R-502	L,M		AB & MIN	POE-32 & MIN	POE-32	Service only FX10
	HCFC R-409A	R-12	L,M		AB & MIN	POE-32 & MIN	POE-32	Service only FX56
	HFC R-134a	R-12	M,H	M,H	POE-32			
	HFC R-404A	R-502	L,M	L,M	POE-32			Suva HP62, Forane™ FX70
	HFC R-507	R-502	L,M	L,M	POE-32			Genetron™ AZ50
Non-ozone depleting	HFC R-407A	R-22	L,M	L,M	POE-32			
	HFC R-407C	R-22	L,M,H	L,M,H	POE-32			Suva 9000/KLEA 66
	HFC R-407F	R-22	L,M	L,M	POE			Discuss™ and select refrigeration scroll models (ZF/ZB)
	HFC R-410A		L,M	M,H	POE-32			ZP & ZB KCP Copeland Scroll™ models only
	HFC R-422A/D	R-22	L,M		POE-32	MIN	AB	Discuss supermarket racks only
	HFC R-438A	R-22	L,M		POE-32	MIN	AB	Discuss supermarket racks only; ISCEON™ MO99
	R-704 helium			Cryogenic	PAG			ZC Copeland Scroll models only
	R-744 CO ₂			Sub-critical	POE*			ZO Copeland Scroll models only
	R-290 propane			L,M	POE			For use with specific Copeland compressors designed for R-290

Legend:

- MIN: Mineral Oil (Copeland 468WMO, Calumet R015, Chevron/Texaco Capella WF32, Sonneborn Suniso 3GS) Mineral oils are interchangeable for 'top off' purposes
- AB: Alkyl Benzene Oil (Copeland Ultra 200, Shrieve Zerol 200 TD, Sonneborn Suniso AKB200A, Shell 22 12)
- POE 32: Polyolester Oil (Copeland Ultra 32-3MAF, Lubrizol Emkarate RL32-3MAF, Parker EMKARATE RL32-3MAF (Virginia) LE323MAF, Nu Calgon 4314-66 (EMKARATE RL32-3MAF)
- Hatcol 22 CC, Copeland Ultra 22 CC & Mobil Arctic 22 CC (last three for 'top off' only)
- POE*: Contact Application Engineer for oil details
- PAG: Polyalkylene Glycol Oil (Lubrizol RPAG 62, UCON LB300X)
- POE-32 & MIN: Minimum 50% POE
- AB & MIN: Minimum 50% Alkyl Benzene
- L: Low Temperature Application (Refrigeration) For R-407A, R-407C, R-407F, R-422A/D, R-438A, Demand Cooling™ is required for low temperature application - See AE guidelines for details
- M: Medium Temperature Application (Refrigeration)
- H: High Temperature Application (Air-Conditioning, Heat Pump, Refrigeration)

Spectronics AR-GLO 4/E Fluorescent Leak Detection Dye is approved for HFC/POE and HCFC/Mineral Oil usage at the manufacturer's recommended concentrations.

CAUTION: POE must be handled carefully and the proper protective equipment (gloves, eye protection, etc.) must be used when handling POE lubricant. POE must not come into contact with any surface or material that might be harmed by POE, including without limitation, certain polymers (e.g. PVC/CPVC and polycarbonate).

For specific product availability and performance data refer to Emerson Climate Technologies, Inc. sales literature
 Refer To Application Engineering bulletins, change-over guidelines And MSDS sheets for additional information at EmersonClimate.com



EmersonClimate.com