

R Series

DUAL REFRIGERANT AIR COOLED CONDENSING UNITS 1/2 TO 6-1/2 HP



1/2 to 3 HP



4 to 6 HP

DUAL REFRIGERANT AIR COOLED CONDENSING UNITS

Description

Minicon R-series condensing units are ideally suited for use in a variety of commercial applications such as cafeterias, convenience stores, restaurants and fast food outlets. Minicon units offer a winning combination of quality, economy, and flexibility coupled with lower long term operating costs.

This low profile product line has been designed around environmentally safer refrigerants. Units are available with a choice of compressors: low cost hermetic, efficient and quiet scroll compressors or heavy duty semi-hermetic and discus compressors.

In addition to the basic Indoor and Outdoor models described in this bulletin, Russell can also provide pre-engineered system packages with matching evaporators and accessories.

The standard R-series condensing unit is designed for operation in ambient air temperatures up to 110°F. Oversized condensers are available for most models. Contact our Applications Engineering department for requirements exceeding 110°F ambient temperature.

Features

Indoor/Outdoor Models (REH/RES/RED/REO)

- Hermetic, Semi-hermetic or Scroll compressor.
- Generously sized condenser, Copper tubes/ Aluminum fins
- Large electrical control panel for power and control circuits
- Compressor contactor or start kit
- Encapsulated high and low pressure controls (adjustable low pressure control on low temp models)
- Refrigerant receiver with shutoff valve and relief plug
- PSC motors are standard for all condenser fans
- All-weather housing
- UL and cUL listed for indoor or outdoor use

Optimized Packaged Units (RLH / RLS / RLD / RLO)

- Includes all Indoor model features - plus:
- Liquid line kit with filter/drier and sight glass with moisture indicator
- Suction line piping to exterior of cabinet
- Low Ambient - flooded head pressure control valve
- Crankcase heater
- Electric defrost timer with defrost contactor/relay on low temperature models (ED10-230/1)
- Air Defrost Timer (2-1/2 through 6 HP High and Medium temp models only, optional for other HP)

Options

- Factory installed air defrost timer
- Factory installed electric defrost timer with contactor
- Low ambient flooded control (STD on RL models)
- Mild ambient fan cycle control (for 2 fan units only)
- Suction line piping to exterior of cabinet (STD on RL models)
- Suction line kit with filter and piping
- Liquid line (piping only)
- Liquid line kit with piping, filter/ drier and sight glass (STD on RL models)
- Suction accumulator
- Oil separator (not available with mounted accumulator)
- Crankcase heater
- Copper fins, or coated condenser coil
- Tiered stacking
- Liquid line solenoid
- Fused disconnect
- High ambient oversized condenser coil - contact Applications
- Spring mounting for semi-hermetic compressors

DUAL REFRIGERANT AIR COOLED CONDENSING UNITS

Features and Options

	DESCRIPTION	STANDARD UNITS				PACKAGED UNITS			
		REH	RED	RES	REO	RLH	RLD	RLS	RLO
COMPRESSOR	Hermetic	STD	N/A	N/A	N/A	STD	N/A	N/A	N/A
	Discus	N/A	STD	N/A	N/A	N/A	STD	N/A	N/A
	Semi-Hermetic	N/A	N/A	STD	N/A	N/A	N/A	STD	N/A
	Scroll	N/A	N/A	N/A	STD	N/A	N/A	N/A	STD
ELECTRICAL CONTROLS	Oil failure control (as required)	N/R	STD	STD	N/R	N/R	STD	STD	N/R
	Encapsulated high and low pressure controls**	STANDARD				STANDARD			
	Compressor contactor (1Ø or 3Ø), start kit (1Ø)	STANDARD				STANDARD			
	Control transformer (460v to 230V) as required	STANDARD				STANDARD			
CONDENSER	Copper tubes, Aluminum fins	STANDARD				STANDARD			
	Fan motor(s) - overload protection	STANDARD				STANDARD			
	Fan blade(s) - individually balanced	STANDARD				STANDARD			
	Fan guard(s)	OPTIONAL				OPTIONAL			
PIPING COMPONENTS	Suction line (vibrasorber [†] and piping only)	OPTIONAL				STANDARD			
	Suction kit (vibrasorber [†] , piping and suction filter)	OPTIONAL				OPTIONAL			
	Suction line accumulator	OPTIONAL				OPTIONAL			
	*Liquid line kit	OPTIONAL				STANDARD			
	Discharge vibrasorber	N/R	STD††	STD††	N/R	N/R	STD††	STD††	N/R
RECEIVER	Shut-off valve(s)	STANDARD				STANDARD			
	Fusible plug	STANDARD				STANDARD			
HOUSING	Galvanized steel all weather housing	STANDARD				STANDARD			
	Control panel	STANDARD				STANDARD			
LOW AMBIENT CONTROLS	SIERRA	See publication No. 506				NOT AVAILABLE			
	HIGH SIERRA	See Publication No. 508				NOT AVAILABLE			
	Fan cycle control (2 Fan models only)	OPTIONAL				OPTIONAL			
	Flooded head pressure control	OPTIONAL				STANDARD			
DEFROST PROVISIONS	Air defrost time clock	OPTIONAL				STD on 3-6 HP			
	Electric defrost package	OPTIONAL				(1)	(1)	(1)	(1)
TESTING	UL and C-UL listed	STANDARD				STANDARD			
	Leak and dielectric tested before shipping	STANDARD				STANDARD			
	Dry Nitrogen shipping charge (25 to 35 PSI)	STANDARD				STANDARD			

STD = Standard Feature N/R = Not Required N/A = Not Available OPT = Optional Feature

† Vibrasorber not required for Hermetic and Scroll compressors. Vibrasorber not included for 1/2 through 2HP models. Add kit SPR-VB if suction vibrasorber required.

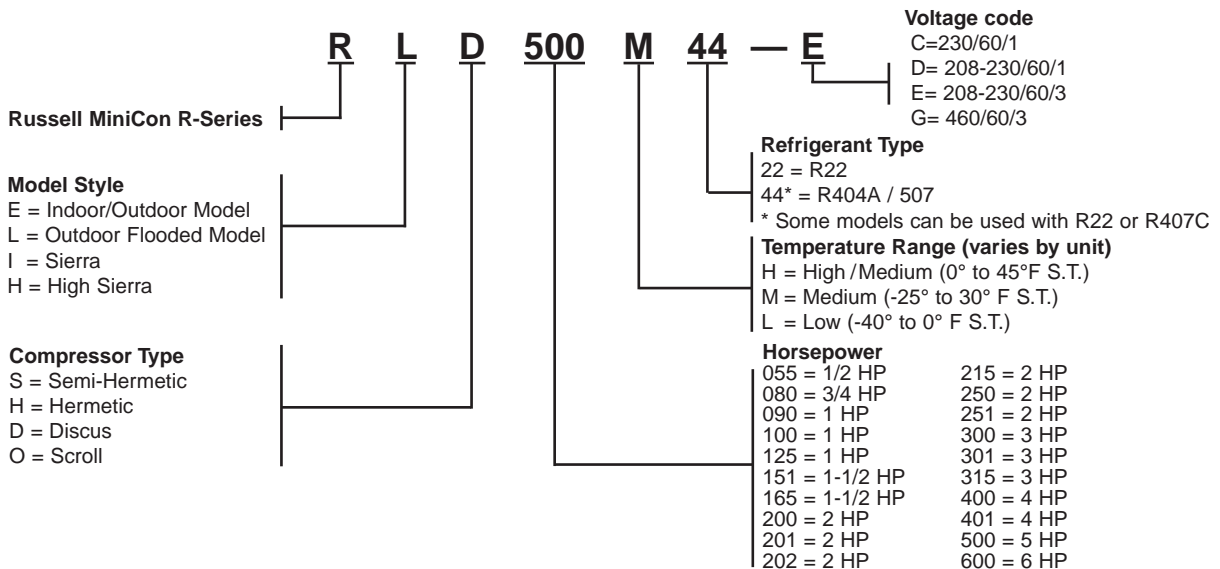
†† Standard for 2-1/2 through 6HP Models. For 1/2 to 2HP models, add kit number SPR-VB to include vibrasorbers and compressor spring mounting.

* Liquid line kit includes: piping, filter drier, sight glass/moisture indicator.

** Adjustable low pressure control on low temp models in lieu of fixed control.

(1) Electric defrost kit is included on Low temperature models. ED-10-230/1 for 1/2 to 3 HP models, and ED11-230/3 for 4 to 6 HP models.

MODEL NUMBER NOMENCLATURE



DUAL REFRIGERANT AIR COOLED CONDENSING UNITS

Capacity Data - Medium Temp Hermetic R404A Rating

R404A MEDIUM TEMPERATURE - HERMETIC - CAPACITY (BTUH)

	MODEL	+30°F	+25°F	+20°F	+10°F	0°F	-10°F	-20°F	-25°F
90°F Ambient	R*H055M44†	6,920	6,250	5,620	4,500	3,500	2,660	1,930	1,610
	R*H080M44†	8,280	7,490	6,760	5,440	4,310	3,370	2,600	2,270
	R*H090M44†	9,560	8,700	7,890	6,420	5,130	4,030	3,100	2,710
	R*H100M44†	10,340	9,240	8,230	6,440	4,950	3,700	2,610	2,100
	R*H125M44†	14,370	12,920	11,560	9,120	7,030	5,240	3,740	3,080
	R*H151M44	17,920	15,900	14,000	10,630	7,820	5,510	3,620	2,820
	R*H200M44	19,470	17,420	15,510	12,030	9,040	6,550	4,520	3,680
	R*H251M44	21,560	19,290	17,190	13,420	10,220	7,550	5,380	4,450
	R*H301M44	29,370	26,270	23,360	18,080	13,580	9,790	6,730	5,490
	R*H325M44	32,160	28,800	25,620	19,910	15,090	11,060	7,710	6,260
R*H400M44	45,080	40,010	35,350	27,080	20,240	14,690	10,350	8,600	
R*H500M44	51,320	45,680	40,490	31,380	23,840	17,680	12,700	10,600	

95°F Ambient	R*H055M44†	6,620	5,970	5,120	4,070	3,160	2,380	1,710	1,420
	R*H080M44†	7,840	7,080	6,090	4,890	3,870	3,010	2,320	2,030
	R*H090M44†	9,080	8,260	7,140	5,800	4,620	3,610	2,770	2,420
	R*H100M44†	9,730	8,690	7,380	5,760	4,410	3,260	2,240	1,750
	R*H125M44†	13,570	12,180	10,390	8,160	6,250	4,620	3,240	2,640
	R*H151M44	16,830	14,860	13,050	9,840	7,170	4,980	3,180	2,420
	R*H200M44	18,270	16,310	13,820	10,650	7,940	5,680	3,860	3,110
	R*H251M44	20,290	18,130	15,390	11,960	9,060	6,640	4,670	3,840
	R*H301M44	27,650	24,690	21,900	16,850	12,550	8,960	6,100	4,960
	R*H325M44	30,190	26,960	23,920	18,520	13,940	10,110	6,910	5,500
R*H400M44	42,300	37,480	33,040	25,210	18,750	13,550	9,500	7,880	
R*H500M44	48,440	43,050	36,380	28,110	21,270	15,700	11,190	9,270	

100°F Ambient	R*H055M44†	6,290	5,670	5,080	4,020	3,110	2,330	1,650	1,360
	R*H080M44†	7,390	6,670	6,010	4,810	3,790	2,940	2,260	1,980
	R*H090M44†	8,600	7,810	7,070	5,720	4,550	3,540	2,710	2,370
	R*H100M44†	9,120	8,140	7,240	5,640	4,290	3,130	2,080	1,550
	R*H125M44†	12,770	11,450	10,210	7,980	6,060	4,430	3,050	2,450
	R*H151M44	15,710	13,840	12,120	9,070	6,540	4,460	2,750	2,030
	R*H200M44	17,070	15,200	13,450	10,280	7,590	5,370	3,590	2,850
	R*H251M44	19,030	16,970	15,060	11,650	8,770	6,380	4,430	3,600
	R*H301M44	25,930	23,100	20,440	15,630	11,550	8,160	5,510	4,470
	R*H325M44	28,200	25,120	22,260	17,130	12,800	9,160	6,110	4,740
R*H400M44	39,570	34,990	30,790	23,390	17,320	12,460	8,710	7,200	
R*H500M44	45,580	40,460	35,760	27,540	20,760	15,240	10,750	8,840	

110°F Ambient	R*H055M44†	5,630	5,050	4,520	3,550	2,720	2,000	1,380	1,110
	R*H080M44†	6,490	5,850	5,250	4,170	3,260	2,520	1,930	1,700
	R*H090M44†	7,600	6,900	6,230	5,020	3,960	3,070	2,340	2,040
	R*H100M44†	7,930	7,060	6,270	4,850	3,630	2,540	1,490	950
	R*H125M44†	11,210	10,000	8,880	6,860	5,130	3,650	2,380	1,820
	R*H151M44	13,510	11,830	10,290	7,560	5,310	3,450	1,940	1,270
	R*H200M44	14,700	13,010	11,430	8,590	6,210	4,260	2,700	2,040
	R*H251M44	16,510	14,680	12,970	9,930	7,360	5,240	3,520	2,790
	R*H301M44	22,550	19,980	17,560	13,260	9,610	6,660	4,440	3,630
	R*H325M44	24,350	21,560	19,010	14,440	10,570	7,310	4,490	3,210
R*H400M44	34,180	30,140	26,420	19,890	14,590	10,410	7,220	5,930	
R*H500M44	39,960	35,370	31,180	23,840	17,820	12,900	8,860	7,110	

Models with † can be used with R407C between the ranges of 0°F and +30°F. Multiply capacity of models 055 thru 125 (only) by .83.

DUAL REFRIGERANT AIR COOLED CONDENSING UNITS

Dual Refrigerant - Medium Temp R22 Rating

R22 MEDIUM TEMPERATURE - HERMETIC - CAPACITY (BTUH)

	MODEL	+30°F	+25°F	+20°F	+10°F	0°F
90°F Ambient	R*H055M44	7,200	6,570	5,850	4,730	3,640
	R*H080M44	8,620	7,870	7,040	5,720	4,490
	R*H090M44	9,950	9,140	8,210	6,750	5,340
	R*H100M44	10,760	9,710	8,560	7,070	5,650
	R*H125M44	14,950	13,570	12,030	9,580	7,320
	R*H151M44	16,780	15,700	13,980	10,730	8,140
	R*H200M44	18,430	17,020	15,500	12,140	9,040
	R*H251M44	19,970	18,640	17,170	13,540	10,850
	R*H301M44	30,550	27,590	24,300	18,990	14,130
R*H325M44	33,450	30,240	26,650	20,910	15,700	
R*H400M44	42,210	37,400	33,470	25,890	19,900	
R*H500M44	51,250	46,060	42,110	32,950	24,800	

95°F Ambient	R*H055M44	6,890	6,270	5,330	4,280	3,290
	R*H080M44	8,160	7,440	6,340	5,140	4,030
	R*H090M44	9,450	8,680	7,430	6,090	4,810
	R*H100M44	10,120	9,130	7,680	6,350	5,190
	R*H125M44	14,120	12,790	10,810	8,570	6,500
	R*H151M44	15,940	14,680	13,040	9,410	7,460
	R*H200M44	17,300	16,110	14,380	11,190	8,260
	R*H251M44	18,580	17,520	16,010	12,560	10,100
	R*H301M44	28,760	25,930	22,780	17,700	13,980
R*H325M44	31,400	28,310	24,880	19,450	15,370	
R*H400M44	40,920	36,610	31,970	26,480	19,500	
R*H500M44	47,870	42,950	37,840	29,520	23,240	

100°F Ambient	R*H055M44	6,550	5,960	5,290	4,230	3,240
	R*H080M44	7,690	7,010	6,260	5,060	3,950
	R*H090M44	8,950	8,210	7,360	6,010	4,740
	R*H100M44	9,490	8,550	7,530	6,330	5,170
	R*H125M44	13,290	12,030	10,620	8,380	6,310
	R*H151M44	14,870	13,670	12,240	9,250	7,090
	R*H200M44	16,170	15,010	13,440	10,370	7,590
	R*H251M44	17,430	16,040	14,890	11,630	9,450
	R*H301M44	26,970	24,260	21,260	16,420	12,870
R*H325M44	29,330	26,380	23,160	17,990	14,260	
R*H400M44	39,110	34,910	30,750	23,580	18,020	
R*H500M44	45,040	40,370	36,460	28,350	21,600	

110°F Ambient	R*H055M44	5,860	5,310	4,710	3,730	2,830
	R*H080M44	6,750	6,150	5,460	4,380	3,400
	R*H090M44	7,910	7,250	6,480	5,280	4,120
	R*H100M44	8,250	7,420	6,530	5,400	4,380
	R*H125M44	11,660	10,500	9,240	7,210	5,340
	R*H151M44	12,380	11,440	10,070	7,470	5,670
	R*H200M44	13,770	12,580	11,060	8,390	6,460
	R*H251M44	15,470	13,570	12,280	9,500	7,820
	R*H301M44	23,460	20,980	18,270	13,930	10,500
R*H325M44	25,330	22,640	19,780	15,170	11,440	
R*H400M44	35,550	31,650	27,480	20,890	15,720	
R*H500M44	37,410	33,430	29,520	22,790	16,880	

DUAL REFRIGERANT AIR COOLED CONDENSING UNITS

Capacity Data - Medium Temp R404A Rating

R404A MEDIUM TEMPERATURE - SEMI HERMETIC - CAPACITY (BTUH)

	MODEL	+25°F	+20°F	+15°F	+10°F	+5°F	0°F	-5°F
90°F Ambient	R*S075M44†	5,880	5,270	4,680	4,130	3,610	3,130	2,700
	R*S100M44†	8,740	7,860	7,040	6,290	5,600	4,970	4,390
	R*S150M44†	11,270	10,070	9,010	8,050	7,170	6,340	5,540
	R*S200M44†	15,220	13,620	12,150	10,810	9,600	8,510	7,540
	R*S250M44	18,020	16,110	14,350	12,720	11,240	9,900	8,690
	R*S300M44	28,110	25,130	22,370	19,840	17,510	15,390	13,460
95°F Ambient	R*S075M44†	5,510	4,930	4,370	3,840	3,350	2,890	2,480
	R*S100M44†	8,260	7,420	6,640	5,920	5,260	4,660	4,120
	R*S150M44†	10,670	9,520	8,490	7,580	6,730	5,940	5,180
	R*S200M44†	14,400	12,870	11,470	10,210	9,060	8,030	7,120
	R*S250M44	16,980	15,160	13,480	11,940	10,530	9,260	8,120
	R*S300M44	26,700	23,820	21,170	18,740	16,510	14,470	12,630
100°F Ambient	R*S075M44†	5,150	4,580	4,050	3,550	3,080	2,650	2,260
	R*S100M44†	7,770	6,970	6,230	5,550	4,930	4,360	3,840
	R*S150M44†	10,060	8,960	7,980	7,100	6,300	5,550	4,820
	R*S200M44†	13,570	12,120	10,800	9,610	8,530	7,560	6,700
	R*S250M44	15,950	14,210	12,620	11,160	9,830	8,630	7,560
	R*S300M44	25,260	22,490	19,960	17,630	15,500	13,560	11,810
110°F Ambient	R*S075M44†	4,400	3,910	3,440	2,990	2,570	2,190	1,850
	R*S100M44†	6,800	6,080	5,420	4,810	4,250	3,750	3,290
	R*S150M44†	8,860	7,850	6,960	6,170	5,440	4,760	4,110
	R*S200M44†	11,940	10,650	9,480	8,420	7,470	6,630	5,870
	R*S250M44	13,880	12,330	10,910	9,620	8,450	7,400	6,470
	R*S300M44	22,330	19,810	17,510	15,400	13,480	11,740	10,170

R404A MEDIUM TEMPERATURE - DISCUS - CAPACITY (BTUH)

	MODEL	+40°F	+30°F	+25°F	+20°F	+10°F	0°F	-10°F
90°F Ambient	R*D500M44††	66,700	54,330	48,830	43,720	34,630	27,000	20,650
	R*D600M44††	77,920	63,980	57,730	51,910	41,490	32,650	25,240
95°F Ambient	R*D500M44††	63,420	51,560	46,300	41,430	32,750	25,480	19,430
	R*D600M44††	74,080	60,760	54,790	49,220	39,280	30,860	23,820
100°F Ambient	R*D500M44††	60,100	48,810	43,790	39,140	30,880	23,960	18,230
	R*D600M44††	70,210	57,530	51,850	46,560	37,090	29,080	22,390
110°F Ambient	R*D500M44††	53,450	43,300	38,780	34,610	27,180	20,980	15,870
	R*D600M44††	---	51,030	45,950	41,210	32,720	25,560	19,580

R404A MEDIUM TEMPERATURE - SCROLL - CAPACITY (BTUH)

	MODEL	+35°	+30°	+25°	+20°	+15°	+10°	0°
90°F Ambient	R*O200M44	22,590	20,970	18,770	17,890	16,480	15,070	12,530
	R*O250M44	27,900	25,840	23,860	21,960	20,200	18,440	15,290
	R*O315M44	32,050	29,930	27,750	25,610	23,540	21,480	17,610
	R*O350M44	38,310	35,840	33,300	30,430	28,180	25,950	21,400
	R*O400M44	45,320	41,700	38,770	35,670	32,820	30,190	25,550
	R*O600M44	51,920	49,240	45,530	42,340	38,840	35,540	29,670
95°F Ambient	R*O200M44	21,930	20,350	18,820	17,360	16,000	14,630	12,160
	R*O250M44	27,080	25,050	23,160	21,320	19,610	17,900	14,840
	R*O315M44	31,110	29,050	26,940	24,860	22,860	20,850	17,090
	R*O350M44	37,190	34,790	32,330	29,540	27,370	25,190	20,770
	R*O400M44	44,000	40,480	37,640	34,630	31,970	29,310	24,800
	R*O600M44	50,400	47,800	44,200	41,100	37,800	34,500	28,800
100°F Ambient	R*O200M44	21,060	19,540	17,500	16,670	15,360	14,050	11,680
	R*O250M44	26,000	24,080	22,240	20,470	18,830	17,190	14,250
	R*O315M44	29,870	27,890	25,870	23,870	21,940	20,020	16,410
	R*O350M44	35,710	33,400	31,040	28,360	26,260	24,190	19,940
	R*O400M44	42,240	38,870	36,140	33,250	30,590	28,140	23,810
	R*O600M44	48,390	45,890	42,440	39,460	36,200	33,120	27,650
110°F Ambient	R*O200M44	20,040	18,320	16,950	16,150	14,880	13,030	11,310
	R*O250M44	24,750	22,580	21,540	19,830	18,240	15,940	13,810
	R*O315M44	28,450	26,150	25,060	23,120	21,260	18,560	15,900
	R*O350M44	34,020	31,320	29,100	26,590	24,620	22,420	18,700
	R*O400M44	40,240	36,440	33,880	31,170	28,680	26,090	22,320
	R*O600M44	46,090	43,020	39,780	36,990	33,930	30,710	25,920
	R*O650M44	52,330	48,490	45,450	42,280	39,030	36,410	30,290

Models with † can be used with R407C between the ranges of -5°F and +25°F suction temp.
 Models with †† can be used with R407C between the ranges of -10°F and +45°F suction temp.
 Multiply the capacity of designated R404A models by .83 to obtain R407C capacity.

DUAL REFRIGERANT AIR COOLED CONDENSING UNITS

Dual Refrigerant - Medium Temp R22 Rating

R22 MEDIUM TEMPERATURE - SEMI HERMETIC - CAPACITY (BTUH)

		MODEL	+40°F	+35°F	+30°F	+25°F	+20°F	+15°F	+10°F
90°F Ambient	R*S075M44	9,390	8,480	7,580	6,740	5,960	5,260	4,550	
	R*S100M44	12,550	11,460	10,350	9,340	8,410	7,570	6,710	
	R*S150M44	17,270	15,510	13,950	12,420	11,110	9,930	8,870	
	R*S200M44	23,400	21,270	19,140	17,270	15,400	13,680	11,960	
	R*S250M44	26,210	23,820	21,440	19,260	17,240	15,430	13,570	
	R*S300M44	35,880	32,610	29,330	26,320	23,510	21,010	18,520	
95°F Ambient	R*S075M44	9,020	8,150	7,280	6,480	5,730	5,050	4,370	
	R*S100M44	12,060	11,010	9,950	8,980	8,080	7,270	6,450	
	R*S150M44	16,600	15,100	13,500	11,980	10,690	9,540	8,510	
	R*S200M44	22,500	20,450	18,400	16,600	14,800	13,150	11,500	
	R*S250M44	25,200	22,904	20,608	17,810	16,510	14,760	13,010	
	R*S300M44	34,500	31,350	28,200	25,300	22,600	20,200	17,800	
100°F Ambient	R*S075M44	8,660	7,830	6,990	6,230	5,510	4,850	4,200	
	R*S100M44	11,580	10,570	9,560	8,630	7,760	6,980	6,200	
	R*S150M44	15,940	14,400	12,900	11,510	10,250	9,130	8,130	
	R*S200M44	21,600	19,640	17,670	15,940	14,210	12,630	11,040	
	R*S250M44	24,192	22,000	19,790	17,720	15,820	14,140	12,470	
	R*S300M44	33,120	30,100	27,080	24,290	21,700	19,400	17,090	
110°F Ambient	R*S075M44	8,080	7,300	6,520	5,820	5,140	4,530	3,920	
	R*S100M44	10,790	9,850	8,910	8,050	7,230	6,510	5,790	
	R*S150M44	14,500	13,100	11,800	10,510	9,310	8,260	7,320	
	R*S200M44	20,120	18,300	16,470	14,860	13,250	11,770	10,290	
	R*S250M44	22,530	20,496	18,450	16,430	14,660	13,100	11,580	
	R*S300M44	30,850	28,040	25,220	22,630	20,220	18,080	15,920	

R22 MEDIUM TEMPERATURE - DISCUS - CAPACITY (BTUH)

		MODEL	+40°F	+35°F	+30°F	+25°F	+20°F	+15°F	+10°F
90°F Ambient	R*D500M44	66,700	61,050	55,400	50,200	45,350	40,770	36,200	
	R*D600M44	80,258	71,429	65,899	59,462	53,467	47,701	42,735	
95°F Ambient	R*D500M44	64,100	58,700	53,300	48,300	43,600	39,200	34,800	
	R*D600M44	76,302	68,679	62,583	56,434	50,697	45,864	40,458	
100°F Ambient	R*D500M44	61,500	49,920	51,200	46,400	41,900	37,640	33,400	
	R*D600M44	72,316	58,406	59,256	53,406	47,957	44,039	38,203	
110°F Ambient	R*D500M44	57,300	52,490	47,700	43,200	39,000	35,060	31,100	
	R*D600M44	---	61413	52561	47329	42446	41020	33702	

R22 MEDIUM TEMPERATURE - SCROLL - CAPACITY (BTUH)

		MODEL	+40°F	+35°F	+30°F	+25°F	+20°F	+15°F	+10°F
90°F Ambient	R*O200M44	N/A	21,660	20,490	18,820	17,410	15,900	14,380	
	R*O250M44	N/A	26,110	24,110	21,950	20,540	18,700	16,870	
	R*O315M44	N/A	31,360	29,020	26,620	24,180	22,050	19,910	
	R*O350M44	N/A	29,030	35,770	32,850	29,160	26,810	24,450	
	R*O400M44	N/A	44,620	41,110	38,590	34,700	31,640	28,590	
	R*O600M44	N/A	53,970	49,830	45,250	42,250	38,640	35,040	
	R*O650M44	N/A	59,570	56,490	53,410	49,730	46,050	42,370	
95°F Ambient	R*O200M44	N/A	21,020	19,890	18,270	16,900	15,430	13,960	
	R*O250M44	N/A	25,340	23,400	21,310	19,940	18,155	16,370	
	R*O315M44	N/A	30,440	28,170	25,840	23,470	21,400	19,330	
	R*O350M44	N/A	28,180	34,720	31,890	28,310	26,020	23,730	
	R*O400M44	N/A	43,320	39,910	37,460	33,680	30,715	27,750	
	R*O600M44	N/A	52,390	48,370	43,930	41,010	37,510	34,010	
100°F Ambient	R*O200M44	N/A	20,390	19,300	17,730	16,400	14,970	13,550	
	R*O250M44	N/A	24,580	22,700	20,680	19,350	17,620	15,880	
	R*O315M44	N/A	29,530	27,330	25,070	22,770	20,760	18,760	
	R*O350M44	N/A	27,340	33,680	30,940	27,470	25,240	23,020	
	R*O400M44	N/A	42,030	38,720	36,340	32,670	29,800	26,920	
	R*O600M44	N/A	50,820	46,920	42,620	39,780	36,390	32,990	
110°F Ambient	R*O200M44	N/A	19,190	18,170	16,690	15,440	14,100	12,760	
	R*O250M44	N/A	23,140	21,360	19,460	18,210	16,590	14,950	
	R*O315M44	N/A	27,800	25,730	23,600	21,430	19,540	17,660	
	R*O350M44	N/A	25,730	31,690	29,120	25,860	23,760	21,670	
	R*O400M44	N/A	39,550	36,440	34,200	30,740	28,050	25,340	
	R*O600M44	N/A	47,830	44,160	40,110	37,440	34,250	31,050	
R*O650M44	N/A	50,900	48,260	45,630	42,490	39,350	36,200		

DUAL REFRIGERANT AIR COOLED CONDENSING UNITS

Capacity Data - Low Temperature R404A / R22

R404A LOWTEMPERATURE - HERMETIC - CAPACITY (BTUH)

		MODEL	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
90°F Ambient	R*H075L44		4,580	4,040	3,490	2,920	2,340	1,670	-----	-----	-----
	R*H100L44		5,930	5,200	4,480	3,780	3,070	2,340	-----	-----	-----
	R*H165L44		10,600	9,430	8,260	7,080	5,900	4,880	3,930	3,110	-----
	R*H215L44		17,080	15,270	13,450	11,340	9,230	7,660	-----	-----	-----
	R*H315L44		21,710	19,150	16,580	14,180	11,780	9,890	7,920	7,010	6,100
95°F Ambient	R*H075L44		4,400	3,880	3,350	2,800	2,250	1,600	-----	-----	-----
	R*H100L44		5,700	5,000	4,300	3,630	2,950	2,250	-----	-----	-----
	R*H165L44		10,190	9,070	7,940	6,810	5,670	4,690	3,770	2,840	-----
	R*H215L44		16,420	14,680	12,930	10,900	8,870	7,360	5,940	-----	-----
	R*H315L44		20,870	18,410	15,940	13,630	11,320	9,508	7,610	6,560	-----
100°F Ambient	R*H075L44		4,230	3,730	3,220	2,690	2,160	1,540	-----	-----	-----
	R*H100L44		5,480	4,800	4,130	3,490	2,840	2,160	-----	-----	-----
	R*H165L44		9,790	8,710	7,630	6,540	5,450	4,510	3,620	2,880	-----
	R*H215L44		15,770	14,090	12,420	10,470	8,520	7,070	-----	-----	-----
	R*H315L44		20,040	17,670	15,310	13,090	10,870	9,130	7,310	6,470	5,630
110°F Ambient	R*H075L44		3,950	3,490	3,010	2,520	2,020	1,440	-----	-----	-----
	R*H100L44		5,120	4,480	3,860	3,260	2,650	2,020	-----	-----	-----
	R*H165L44		9,200	8,190	7,170	6,150	5,130	4,240	3,410	2,710	-----
	R*H215L44		14,830	13,250	11,670	9,840	8,010	6,650	-----	-----	-----
	R*H315L44		18,830	16,610	14,390	12,300	10,220	8,590	6,870	6,090	5,290

Low Temperature hermetic compressor models are not suitable for use with R22.

R404A LOWTEMPERATURE - SEMI HERMETIC - CAPACITY (BTUH)

		MODEL	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
90°F Ambient	R*S050L44		3,120	2,810	2,500	2,190	1,880	1,620	1,360	1,150	940
	R*S075L44		5,200	4,680	4,160	3,700	3,230	2,810	2,400	2,030	1,670
	R*S100L44		7,080	6,400	5,720	5,150	4,580	4,010	3,440	2,970	2,500
	R*S150L44		10,920	9,940	8,950	8,010	7,080	6,240	5,410	4,740	4,060
	R*S200L44		14,360	12,950	11,550	10,300	9,050	7,910	6,760	5,880	5,000
	R*S300L44		21,740	19,560	17,370	15,340	13,320	11,500	9,680	8,120	6,560
95°F Ambient	R*S050L44		3,000	2,700	2,400	2,100	1,800	1,550	1,300	1,060	900
	R*S075L44		5,000	4,500	4,000	3,550	3,100	2,700	2,300	1,880	1,600
	R*S100L44		6,800	6,150	5,500	4,950	4,400	3,850	3,300	2,760	2,400
	R*S150L44		10,500	9,550	8,600	7,700	6,800	6,000	5,200	4,420	3,900
	R*S200L44		13,800	12,450	11,100	9,900	8,700	7,600	6,500	5,480	4,300
	R*S300L44		20,900	18,800	16,700	14,750	12,800	11,050	9,300	7,500	6,300
100°F Ambient	R*S050L44		2,880	2,600	2,310	2,020	1,730	1,490	1,250	1,060	870
	R*S075L44		4,800	4,320	3,840	3,410	2,980	2,600	2,210	1,880	1,540
	R*S100L44		6,530	5,910	5,280	4,760	4,230	3,700	3,170	2,740	2,310
	R*S150L44		10,080	9,170	8,260	7,400	6,530	5,760	5,000	4,370	3,750
	R*S200L44		13,250	11,960	10,660	9,510	8,360	7,300	6,240	5,430	4,610
	R*S300L44		20,070	18,050	16,040	14,160	12,290	10,610	9,330	7,490	6,050
110°F Ambient	R*S050L44		2,690	2,430	2,160	1,890	1,620	1,400	1,170	990	820
	R*S075L44		4,480	4,030	3,580	3,190	2,790	2,430	2,070	1,760	1,440
	R*S100L44		6,090	5,510	4,920	4,440	3,950	3,460	2,960	2,570	2,160
	R*S150L44		9,390	8,550	7,700	6,900	6,090	5,370	4,660	4,080	3,500
	R*S200L44		12,340	11,150	9,940	8,860	7,790	6,800	5,820	5,070	4,300
	R*S300L44		18,700	16,820	14,940	13,200	11,450	9,890	8,330	6,990	5,640

R22 LOWTEMPERATURE - SEMI HERMETIC - CAPACITY (BTUH)

		MODEL	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
90°F Ambient	R*S050L44		3,440	3,020	2,600	2,220	1,820	1,510	1,200	970	730
	R*S075L44		5,670	5,030	4,370	3,830	3,280	2,810	2,340	1,960	1,560
	R*S100L44		7,490	6,660	5,830	5,100	4,370	3,780	3,180	2,710	2,240
	R*S200L22		8,840	7,780	6,710	5,880	5,050	4,370	3,700	3,120	2,550
	R*S200L44		14,360	12,740	11,130	9,680	8,220	7,020	5,830	5,050	4,270
95°F Ambient	R*S050L44		3,300	2,900	2,500	2,130	1,750	1,450	1,150	930	700
	R*S075L44		5,450	4,830	4,200	3,680	3,150	2,700	2,250	1,880	1,500
	R*S100L44		7,200	6,400	5,600	4,900	4,200	3,630	3,050	2,600	2,150
	R*S200L22		8,500	7,480	6,450	5,650	4,850	4,200	3,550	3,000	2,450
	R*S200L44		13,800	12,250	10,700	9,300	7,900	6,750	5,600	4,850	4,100
100°F Ambient	R*S050L44		3,170	2,790	2,400	2,050	1,680	1,400	1,110	900	680
	R*S075L44		5,240	4,640	4,040	3,540	3,030	2,600	2,160	1,810	1,440
	R*S100L44		6,920	6,150	5,380	4,710	4,040	3,490	2,930	2,500	2,070
	R*S200L22		8,160	7,190	6,200	5,430	4,660	4,040	3,410	2,880	2,360
	R*S200L44		13,250	11,760	10,280	8,930	7,590	6,480	5,380	4,660	3,940
110°F Ambient	R*S050L44		2,970	2,610	2,250	1,917	1,575	1,305	1,035	837	630
	R*S075L44		4,905	4,347	3,780	3,312	2,835	2,430	2,025	1,692	1,350
	R*S100L44		6,480	5,760	5,040	4,410	3,780	3,267	2,745	2,340	1,935
	R*S200L22		7,650	6,732	5,805	5,085	4,365	3,780	3,195	2,700	2,205
	R*S200L44		12,420	11,025	9,630	8,370	7,110	6,075	5,040	4,365	3,690

R*S200L22 is not a dual refrigerant condensing unit

There are no R22 ratings for models R*S150L44 & R*S300L44

DUAL REFRIGERANT AIR COOLED CONDENSING UNITS

Capacity Data - Low Temperature R404A / R22

R404A LOW TEMPERATURE - SCROLL - CAPACITY (BTUH)

		MODEL	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
90°F Ambient	R*O200L44		11,670	10,690	9,690	8,800	7,910	7,080	6,300	4,850	4,530
	R*O250L44		14,210	13,340	12,470	11,420	10,370	9,250	7,960	6,970	5,980
	R*O300L44		16,440	15,120	13,790	12,790	11,710	9,970	8,930	7,830	6,720
	R*O301L44		19,330	17,670	16,000	14,550	12,960	11,590	10,470	9,420	8,360
	R*O400L44		24,820	22,610	20,400	18,360	16,320	14,510	12,810	10,840	8,860
	R*O500L44		29,350	26,860	24,360	21,980	19,830	17,790	15,326	14,010	12,350
	R*O600L44		34,410	31,320	28,230	25,550	22,770	20,400	17,930	15,970	14,010
95°F Ambient	R*O200L44		11,330	10,370	9,400	8,540	7,670	6,870	6,110	4,700	4,390
	R*O250L44		13,800	12,950	12,100	11,080	10,060	8,980	7,720	6,760	5,800
	R*O300L44		15,960	14,670	13,380	12,410	11,360	9,680	8,670	7,600	6,520
	R*O301L44		18,760	17,150	15,530	14,120	12,580	11,250	10,160	9,140	8,110
	R*O400L44		24,090	21,950	19,800	17,820	15,940	14,080	12,430	10,520	8,600
	R*O500L44		28,490	26,070	23,650	21,340	19,250	17,270	14,880	13,600	11,990
	R*O600L44		33,400	30,400	27,400	24,800	22,100	19,800	17,600	15,500	13,600
100°F Ambient	R*O200L44		10,160	9,310	8,430	7,660	6,880	6,170	5,490	4,720	3,940
	R*O250L44		13,250	12,440	11,620	10,640	9,660	8,630	7,420	6,490	5,570
	R*O300L44		15,330	14,090	12,850	11,920	10,910	9,300	8,330	7,300	6,260
	R*O301L44		18,010	16,470	14,910	13,560	12,080	10,800	9,760	8,780	7,790
	R*O400L44		23,130	21,080	19,010	17,110	15,210	13,520	11,940	10,100	8,260
	R*O500L44		27,350	25,030	22,710	20,490	18,480	16,580	14,590	13,060	11,510
	R*O600L44		32,070	29,190	26,310	23,810	21,220	19,010	16,710	14,880	13,060
110°F Ambient	R*O200L44		9,530	8,730	7,910	7,180	6,450	5,780	5,140	4,420	3,690
	R*O250L44		12,420	11,660	10,890	9,980	9,060	8,090	6,950	6,090	5,220
	R*O300L44		14,370	13,210	12,050	11,170	10,230	8,720	7,810	6,840	5,870
	R*O301L44		16,890	15,440	13,980	12,710	11,330	10,130	9,150	8,230	7,300
	R*O400L44		21,690	19,760	17,820	16,040	14,260	12,680	11,190	9,470	7,740
	R*O500L44		25,650	23,470	21,290	19,210	17,330	15,550	13,680	12,240	10,800
	R*O600L44		30,060	27,360	24,660	22,320	19,890	17,820	15,660	13,950	12,240

Low Temperature hermetic compressor models are not suitable for use with R22.

R404A LOW TEMPERATURE - DISCUS - CAPACITY (BTUH)

		MODEL	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
90°F Ambient	R*D300L44		30,890	27,820	24,760	21,900	19,040	16,640	14,250	12,120	9,990
	R*D400L44		35,470	31,670	27,880	25,280	22,680	20,130	17,580	15,550	13,520
	R*D500L44		41,080	37,240	33,390	29,850	26,320	23,350	20,390	18,000	15,600
95°F Ambient	R*D300L44		29,700	26,750	23,800	21,050	18,300	16,000	13,700	11,240	9,600
	R*D400L44		34,100	30,450	26,800	24,300	21,800	19,350	16,900	14,560	13,000
	R*D500L44		39,500	35,800	32,100	28,700	25,300	22,450	19,600	16,840	15,000
100°F Ambient	R*D300L44		28,520	25,680	22,850	20,210	17,570	15,360	13,160	11,190	9,220
	R*D400L44		32,740	29,240	25,730	23,330	20,930	18,580	16,230	14,360	12,480
	R*D500L44		37,920	34,370	30,820	27,560	24,290	21,560	18,820	16,610	14,400
110°F Ambient	R*D300L44		26,560	23,930	21,290	18,830	16,370	14,310	12,270	10,430	8,600
	R*D400L44		30,500	27,240	23,970	21,730	19,500	17,310	15,130	13,380	11,640
	R*D500L44		35,320	32,010	28,710	25,670	22,630	20,080	17,530	15,480	13,420

R22 LOW TEMPERATURE - DISCUS - CAPACITY (BTUH)

		MODEL	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
90°F Ambient	R*D300L44		27,770	24,600	21,430	18,830	16,230	14,100	11,960	10,090	8,220
	R*D400L44		32,040	28,550	25,070	21,950	18,830	16,180	13,520	11,340	9,160
	R*D500L44		38,800	34,580	30,370	26,680	22,990	19,820	16,640	14,040	11,440
95°F Ambient	R*D300L44		26,700	23,650	20,600	18,100	15,600	13,550	11,500	9,700	7,900
	R*D400L44		30,800	27,450	24,100	21,100	18,100	15,550	13,000	10,900	8,800
	R*D500L44		37,300	33,250	29,200	25,650	22,100	19,050	16,000	13,500	11,000
100°F Ambient	R*D300L44		25,640	22,710	19,780	17,380	14,980	13,010	11,040	9,320	7,590
	R*D400L44		29,570	26,360	23,140	20,260	17,380	14,930	12,480	10,470	8,450
	R*D500L44		35,810	31,920	28,040	24,630	21,220	18,290	15,360	12,960	10,560
110°F Ambient	R*D300L44		24,000	21,300	18,500	16,300	14,000	12,200	10,400	8,730	7,110
	R*D400L44		27,720	24,705	21,690	18,990	16,290	13,995	11,700	9,810	7,920
	R*D500L44		33,570	29,925	26,280	23,085	19,890	17,145	14,400	12,150	9,900

DUAL REFRIGERANT AIR COOLED CONDENSING UNITS

Electrical Data

MODEL NUMBER	COMP. MODEL	AMPS @ 208/230/1/60					AMPS @ 208/230/3/60					AMPS @ 460/3/60				
		COMPRESSOR		COND	TOTAL	MCA	COMPRESSOR		COND	TOTAL	MCA	COMPRESSOR		COND	TOTAL	MCA
		RLA	LRA	FLA	UNIT†	‡	RLA	LRA	FLA	UNIT†	‡	RLA	LRA	FLA	UNIT†	‡
R*H055M44	RST45C1E	4.6	26.5	0.5	6.1	15.0	---	---	---	---	---	---	---	---	---	---
R*H080M44	RST55C1E	6.1	33.7	0.5	7.6	15.0	---	---	---	---	---	---	---	---	---	---
R*H090M44	RST64C1E	8.0	43.0	0.5	9.5	15.0	---	---	---	---	---	---	---	---	---	---
R*H100M44	RST70C1E	6.9	46.0	0.5	8.4	15.0	4.9	36.0	0.5	6.4	15.0	---	---	---	---	---
R*H125M44	RST97C1E	9.0	51.0	1.0	11.0	15.0	5.4	36.0	1.0	7.4	15.0	---	---	---	---	---
R*H151M44	CS10K6E	9.8	56.0	1.0	11.8	15.0	6.7	51.0	1.0	8.7	15.0	3.2	25.0	0.8	4.5	15.0
R*H200M44	CS12K6E	9.8	56.0	1.0	11.8	15.0	6.7	51.0	1.0	8.7	15.0	---	---	---	---	---
R*H251M44	CS14K6E	11.2	61.0	1.0	13.2	16.0	8.4	55.0	1.0	10.4	15.0	4.2	28.0	0.8	5.5	15.0
R*H301M44	CS18K6E	14.4	82.0	1.0	16.4	19.9	9.4	65.5	1.0	11.4	15.0	4.2	33.0	0.8	5.5	15.0
R*H325M44	CS20K6E	16.7	96.0	1.0	18.7	22.9	10.2	75.0	1.0	12.2	15.0	4.6	40.0	0.8	5.9	15.0
R*H400M44	CS27K6E	21.5	121.0	3.1	25.6	31.0	12.1	105.0	3.1	16.2	19.2	7.5	52.0	2.5	10.5	15.0
R*H500M44	CS33K6E	27.6	125.0	3.1	31.7	38.6	16.8	102.0	3.1	20.9	25.1	8.9	48.0	2.5	11.9	15.0
R*H075L44	RST70C1E	6.9	46.0	0.5	8.4	15.0	4.9	36.0	0.5	6.4	15.0	---	---	---	---	---
R*H100L44	RST97C1E	9.0	51.0	1.0	11.0	15.0	5.4	36.0	1.0	7.4	15.0	---	---	---	---	---
R*H165L44	CF06K6E	10.2	59.2	1.0	12.2	15.0	6.3	52.0	1.0	8.3	15.0	3.3	25.4	0.8	4.6	15.0
R*H215L44	CF09K6E	15.0	87.0	1.0	17.0	20.7	9.2	72.2	1.0	11.2	15.0	4.9	35.8	0.8	6.2	15.0
R*H315L44	CF12K6E	18.4	105.0	1.0	20.4	25.0	11.0	85.0	1.0	13.0	15.8	5.9	42.0	0.8	7.2	15.0
R*S075M44	KAN-007E	5.4	36.0	0.5	6.9	15.0	3.1	19.9	0.5	4.6	15.0	----	----	----	----	----
R*S100M44	KAR-010E	6.6	40.0	0.5	8.1	15.0	3.9	27.0	0.5	5.4	15.0	----	----	----	----	----
R*S150M44	KAG-010E	---	---	---	---	---	3.8	27.0	1.0	5.8	15.0	----	----	----	----	----
R*S200M44	KAK-02 ^x E	9.5	55.0	1.0	11.5	15.0	6.1	50.0	1.0	8.1	15.0	---	---	---	---	---
R*S250M44	ERC-02 ^x E	---	---	---	---	---	7.9	46.0	1.0	9.9	15.0	3.1	23.0	0.8	4.4	15.0
R*S300M44	ERF-031E	15.3	86.0	3.1	19.4	23.2	11.1	82.0	3.1	15.2	18.0	5.2	41	2.5	8.2	15.0
R*S050L44	KAN-005E	3.2	24.0	0.5	4.7	15.0	2.0	13.2	0.5	3.5	15.0	---	---	---	---	---
R*S075L44	KAM-007E	5.0	36.0	0.5	6.5	15.0	2.9	19.9	0.5	4.4	15.0	---	---	---	---	---
R*S100L44	KAJ-01 ^x E	6.2	40.0	0.5	7.7	15.0	4.1	27.0	0.5	5.6	15.0	1.9	15	0.4	2.8	15.0
R*S150L44	KAL-01 ^x E	8.9	55.0	1.0	10.9	15.0	5.9	50.0	1.0	7.9	15.0	3.1	25	0.8	4.4	15.0
R*S200L22	KAK-020E	---	---	---	---	---	6.1	50.0	1.0	8.1	15.0	----	----	----	----	----
R*S200L44	EAV-021E	13.2	102.0	1.0	15.2	18.5	6.6	50.0	1.0	8.6	15.0	3.5	26.6	0.8	4.8	15.0
R*S300L44	LAH-032E	15.0	105.0	1.0	17.0	20.7	11.5	112.0	1.0	13.5	16.4	5.4	56.0	0.8	6.7	15.0
R*O200M44	ZS15K4E	12.2	61.0	1.0	14.2	17.3	8.3	55.0	1.0	10.3	15.0	3.9	27.0	0.4	4.8	15.0
R*O250M44	ZS19K4E	14.7	73.0	1.0	16.7	20.4	8.6	63.0	1.0	10.6	15.0	4.5	31.0	0.4	5.4	15.0
R*O315M44	ZS21K4E	14.7	88.0	3.1	18.8	22.5	10.0	77.0	3.1	14.1	16.6	5.1	39.0	2.5	8.1	15.0
R*O350M44	ZS26K4E	18.6	109.0	3.1	22.7	27.3	12.2	88.0	3.1	16.3	19.4	6.4	44.0	2.5	9.4	15.0
R*O400M44	ZS30K4E	24.1	129.0	3.1	28.2	34.2	13.5	99.0	3.1	17.6	20.9	7.4	49.5	2.5	10.4	15.0
R*O600M44	ZS38K4E	28.5	169.0	3.1	32.6	39.8	19.2	123.0	3.1	23.3	28.1	8.6	62.0	2.5	11.6	15.0
R*O650M44	ZS45K4E	---	---	---	---	---	21.4	156.0	3.1	25.5	30.9	8.3	75.0	2.5	11.3	15.0
R*O200L44	ZF06K4E	12.2	61.0	1.0	14.2	17.3	8.3	55.0	1.0	10.3	15.0	3.9	27.0	0.8	5.2	15.0
R*O250L44	ZF08K4E	14.7	73.0	1.0	16.7	20.4	8.6	63.0	1.0	10.6	15.0	4.5	31.0	0.8	5.8	15.0
R*O300L44	ZF09K4E	14.7	88.0	1.0	16.7	20.4	8.9	77.0	1.0	10.9	15.0	5.1	39.0	0.8	6.4	15.0
R*O301L44	ZF11K4E	18.6	109.0	1.0	20.6	25.2	11.4	88.0	1.0	13.4	16.3	6.4	44.0	0.8	7.7	15.0
R*O400L44	ZF13K4E	24.1	129.0	3.1	28.2	34.2	13.5	99.0	3.1	17.6	20.9	7.4	49.5	2.5	10.4	15.0
R*O500L44	ZF15K4E	28.5	169.0	3.1	32.6	39.8	19.2	123.0	3.1	23.3	28.1	8.6	62.0	2.5	11.6	15.0
R*O600L44	ZF18K4E	---	---	---	---	---	21.4	156.0	3.1	25.5	30.9	8.3	75.0	2.5	11.3	15.0
R*D500M44	2DD-R63KE	---	---	---	---	---	20.0	120.0	3.1	24.1	29.1	9.4	60.0	2.5	12.4	15.0
R*D600M44	2DL-R78KE	---	---	---	---	---	28.4	169.0	3.1	32.5	39.5	12.5	85.0	2.5	15.5	18.6
R*D300L44	2DF-F16KE	---	---	---	---	---	15.2	102.0	3.1	19.3	23.1	7.3	52.0	2.5	10.3	15.0
R*D400L44	2DL-F20KE	---	---	---	---	---	23.6	161.0	3.1	27.7	33.6	7.8	60.0	2.5	10.8	15.0
R*D500L44	2DA-F23KE	---	---	---	---	---	25.8	161.0	3.1	29.9	36.4	8.7	60.0	2.5	11.7	15.0

x variable character based upon voltage ordered.

†Total Unit Amps includes approximate allowance for control circuit as follows: 1A - 208/230V; 0.5A - 460V.

‡MCA Minimum Circuit Ampacity does not include evaporator(s) electrical requirements. (Evaporator fan motor amps, defrost heater amps)

DUAL REFRIGERANT AIR COOLED CONDENSING UNITS

Specifications

MODEL NUMBER	COMP. MODEL	NOM HP	REC'R @ 90% R404A (LBS)	CONN. (ODS,in.)		FIG.	DIMENSIONS (in.)			APPROX. SHIP WT.	SOUND DATA dbA†
				LIQ.	SUC.		L	W	H		
R*H055M44	RST45C1E	1/2	5.1	3/8	5/8	A	28-1/4	27-3/4	17-1/4	152	68
R*H080M44	RST55C1E	1/2	5.1	3/8	5/8	A	28-1/4	27-3/4	17-1/4	152	68
R*H090M44	RST64C1E	3/4	5.1	3/8	5/8	A	28-1/4	27-3/4	17-1/4	160	68
R*H100M44	RST70C1E	3/4	5.1	3/8	5/8	A	28-1/4	27-3/4	17-1/4	167	68
R*H125M44	RST97C1E	1.0	8.6	3/8	5/8	B	28-1/4	39-3/4	17-1/4	195	72
R*H151M44	CS10K6E	1.5	8.6	3/8	7/8	B	28-1/4	39-3/4	17-1/4	205	72
R*H200M44	CS12K6E	1.5	8.6	3/8	7/8	B	28-1/4	39-3/4	17-1/4	228	72
R*H251M44	CS14K6E	1.75	8.6	3/8	7/8	B	28-1/4	39-3/4	17-1/4	235	72
R*H301M44	CS18K6E	2.0	8.6	3/8	7/8	C	28-1/4	39-3/4	20-1/4	253	73
R*H325M44	CS20K6E	3.0	13.7	1/2	1-1/8	C	28-1/4	39-3/4	20-1/4	273	73
R*H400M44	CS27K6E	4.0	24.3	1/2	1-1/8	D	33	43-3/4	32-1/4	390	75
R*H500M44	CS33K6E	5.0	24.3	1/2	1-1/8	D	33	43-3/4	32-1/4	405	75
R*H075L44	RST70C1E	3/4	5.1	3/8	5/8	A	28-1/4	27-3/4	17-1/4	157	68
R*H100L44	RST97C1E	1.0	5.1	3/8	5/8	A	28-1/4	27-3/4	17-1/4	180	72
R*H165L44	CF06K6E	1.5	8.6	3/8	7/8	B	28-1/4	38-1/4	17-1/4	195	74
R*H215L44	CF09K6E	2.0	8.6	3/8	7/8	B	28-1/4	38-1/4	17-1/4	243	75
R*H315L44	CF12K6E	3.0	13.7	1/2	1-1/8	C	28-1/4	38-1/4	20-1/4	255	77
R*S075M44	KAN-007E	3/4	6.0	3/8	5/8	A	28-1/4	27-3/4	17-1/4	215	67
R*S100M44	KAR-010E	1.0	5.1	3/8	5/8	A	28-1/4	27-3/4	17-1/4	220	67
R*S150M44	KAG-010E	2.0	10.0	3/8	7/8	B	28-1/4	39-3/4	17-1/4	245	70
R*S200M44	KAK-02 ^x E	2.0	8.6	3/8	7/8	B	28-1/4	39-3/4	17-1/4	270	70
R*S250M44	ERC-02 ^x E	2.5	13.7	1/2	1-1/8	B	28-1/4	39-3/4	20-1/4	340	70
R*S300M44	ERF-031E	3.0	24.3	1/2	1-1/8	D	33	43-3/4	32-1/4	415	70
R*S050L44	KAN-005E	1/2	5.1	3/8	5/8	A	28-1/4	27-3/4	17-1/4	189	67
R*S075L44	KAM-007E	3/4	5.1	3/8	5/8	A	28-1/4	27-3/4	17-1/4	205	67
R*S100L44	KAJ-01 ^x E	1.0	8.6	3/8	5/8	A	28-1/4	27-3/4	17-1/4	220	70
R*S150L44	KAL-01 ^x E	1.5	8.6	3/8	7/8	B	28-1/4	39-3/4	17-1/4	248	70
R*S200L22	KAK-021E	2.0	10.0	3/8	7/8	B	28-1/4	38-1/4	17-1/4	290	70
R*S200L44	EAV-021E	2.0	8.6	3/8	7/8	B	28-1/4	39-3/4	17-1/4	290	70
R*S300L44	LAH-032E	3.0	13.7	1/2	1-1/8	C	28-1/4	39-3/4	20-1/4	383	70
R*O200M44	ZS15K4E	2.0	13.7	1/2	7/8	C	28-1/4	39-3/4	20-1/4	215	71
R*O250M44	ZS19K4E	2.5	13.7	1/2	1-1/8	C	28-1/4	39-3/4	20-1/4	230	72
R*O315M44	ZS21K4E	3.0	24.3	1/2	1-1/8	D	33	43-3/4	32-1/4	305	72
R*O350M44	ZS26K4E	3.0	24.3	1/2	1-1/8	D	33	43-3/4	32-1/4	325	72
R*O400M44	ZS30K4E	4.0	24.3	1/2	1-1/8	D	33	43-3/4	32-1/4	352	74
R*O600M44	ZS38K4E	6.0	24.3	1/2	1-1/8	D	33	43-3/4	32-1/4	383	74
R*O650M44	ZS45K4E	6.5	24.3	5/8	1-1/8	D	33	43-3/4	32-1/4	405	76
R*O200L44	ZF06K4E	2.0	13.7	1/2	7/8	C	28-1/4	39-3/4	20-1/4	230	71
R*O250L44	ZF08K4E	2.5	13.7	1/2	7/8	C	28-1/4	39-3/4	20-1/4	240	73
R*O300L44	ZF09K4E	3.0	13.7	1/2	1-1/8	C	28-1/4	39-3/4	20-1/4	245	73
R*O301L44	ZF11K4E	3.0	13.7	1/2	1-1/8	C	28-1/4	39-3/4	20-1/4	255	73
R*O400L44	ZF13K4E	4.0	24.3	1/2	1-1/8	D	33	43-3/4	32-1/4	352	73
R*O500L44	ZF15K4E	5.0	24.3	1/2	1-1/8	D	33	43-3/4	32-1/4	367	74
R*O600L44	ZF18K4E	6.0	24.3	1/2	1-1/8	D	33	43-3/4	32-1/4	383	76
R*D500M44	2DD-R63KE	5.0	24.3	1/2	1-1/8	D	33	43-3/4	32-1/4	630	78
R*D600M44	2DL-R78KE	6.0	24.3	5/8	1-1/8	D	33	43-3/4	32-1/4	630	78
R*D300L44	2DF-F16KE	3.0	24.3	1/2	1-1/8	D	33	43-3/4	32-1/4	575	78
R*D400L44	2DL-F20KE	4.0	24.3	1/2	1-1/8	D	33	43-3/4	32-1/4	600	78
R*D500L44	2DA-F23KE	5.0	24.3	1/2	1-1/8	D	33	43-3/4	32-1/4	620	78

x variable character based upon voltage ordered.

† Estimated dbA values at 10 feet from the unit. Correction factors: Deduct 6 dbA. for 20 to 40 feet, 12 dbA @ 40 to 60 feet. Ratings at the outlet of the discharge air. The actual measurements may vary depending upon installation variables. Environmental factors may have a significant influence on this data.

DUAL REFRIGERANT AIR COOLED CONDENSING UNITS

Physical Dimensions - All Models

FIG. A

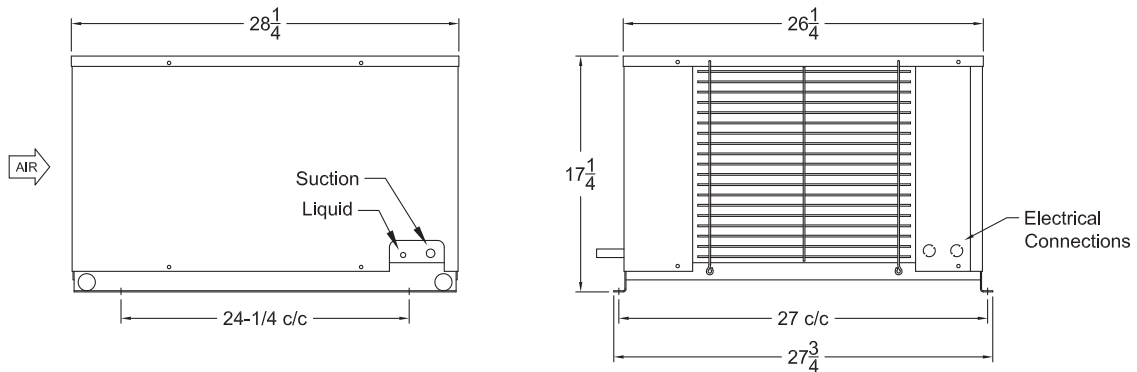
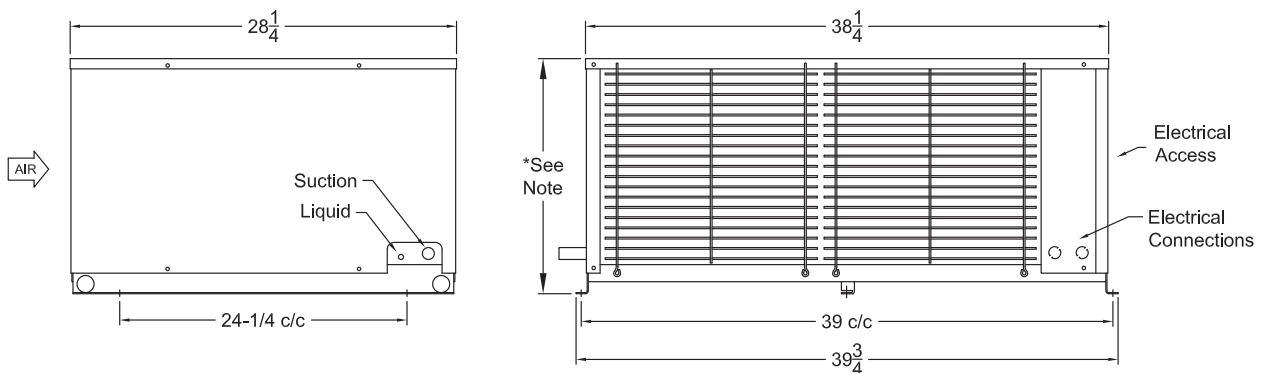
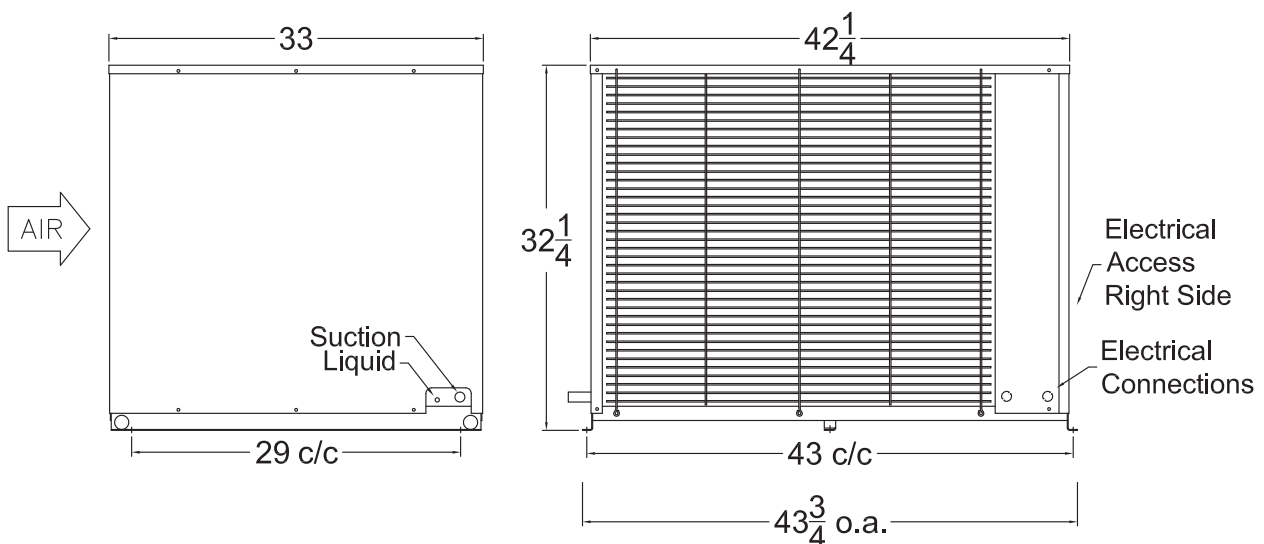


FIG. B & C



* Figure B - $17\frac{1}{4}$ " height (Uses 2 grill pieces as shown).
Figure C - $20\frac{1}{4}$ " height (Single grill piece, not shown).

FIG. D



Due to continuing product development, specifications are subject to change without notice.





Apex System

APEX TOP MOUNT REFRIGERATION SYSTEM



indoor unit

The APEX is delivered, fully assembled and ready to mount. This saves you time and money, because of its quick installation and minimal labor cost. Most APEX units come with a 30" power cord so you can just plug it in and chill.



outdoor unit

Air Defrost — 2,500 - 13,500 BTUH
Electric Defrost — 2,400 - 9,000 BTUH

Features:

- All-in-one refrigeration system
- Factory assembled
- Fully charged and tested
- Attached power cord on most indoor models
- Quick and easy installation
- Indoor and Outdoor units
- HACCP compliant controls



APEX TOP MOUNT REFRIGERATION SYSTEM



Replaceable heater and access panel

Saving Time and Money

- Two-year warranty on all parts
- Shipped factory assembled and tested
- No piping or loose components to install
- Factory evacuated, charged and run tested
- Motors and fans common to other HTPG product
- Adjustable digital electrical controller preset for typical cooler or freezer applications

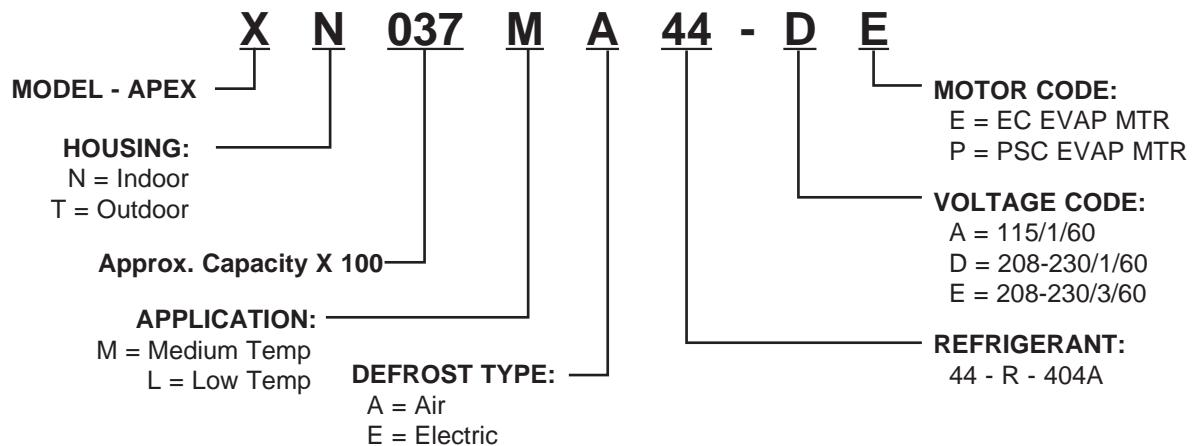
Quick Installation

- Installs in a fraction of the time it takes for a typical split refrigeration system.
- The supply/return register mounts flush with a standard 4" ceiling panel which provides for more storage in your cooler or freezer.
- Condensate evaporated on Indoor models so no drain line is required.
- Drain line with heater provided for Outdoor models.



Inside view of an installed walk-in cooler.

MODEL NUMBER NOMENCLATURE



Standard Indoor Features:

- Insulated evaporator housing / Mill finish Aluminum
- Fully charged and run tested
- Evaporative Drain pan (no drain line needed)
- Electronic Controller
- Filter / Drier, sight-glass, and TXV
- "UL Sanitation" approved

Standard Outdoor Features:

- Most features identical to Indoor models*
- All weather roof
- Drain line with heater
- Crankcase heater

*Outdoor models not equipped with Evaporator Drain Pan

APEX TOP MOUNT REFRIGERATION SYSTEM

Performance/Electrical

Med. Temp Air Def. Models	80°F Ambient		90°F Ambient		95°F Ambient		100°F Ambient		110°F Ambient	
	35°F Rm	38°F Rm	35°F Rm	38°F Rm	35°F Rm	38°F Rm	35°F Rm	38°F Rm	35°F Rm	38°F Rm
XN026MA44*	3170	3360	2960	3140	2860	3030	2750	2910	2530	2670
XN029MA44*	3410	3590	3210	3390	3110	3280	3010	3180	2800	2980
XN037MA44*	4300	4520	4070	4280	3950	4160	3820	4030	3570	3770
XN050MA44*	6430	6790	6040	6380	5840	6180	5640	5980	5250	5580
X*068MA44*	7890	8310	7420	7820	7200	7590	6970	7350	6510	6900
X*076MA44*	8630	9100	8130	8580	7880	8320	7630	8060	7140	7560
X*106MA44*	13230	14080	12170	13010	11640	12470	11090	11940	9960	10850
X*134MA44*	16440	17350	15260	16140	14650	15510	14040	14880	12770	13590

Medium Temp Specifications	Volts/Ph 60 Hz	MCA	MOPD	Unit Amps	Indoor Power Cord	NEMA Receptacle	Evap CFM	Cabinet Size	Approximate Weight (Lbs)			
									Indoor		Outdoor	
									Net	Ship	Net	Ship
XN026MA44A*	115/1	15	15	9.6	Yes	5-15R	280	Small	120	185	-	-
XN029MA44A*	115/1	15	15	8.6	Yes	5-15R	280	Small	120	185	-	-
XN037MA44A*	115/1	15	15	11.1	Yes	5-15R	280	Small	125	190	-	-
XN050MA44A*	115/1	20	20	14.5	Yes	5-20R	435	Medium	210	305	-	-
X*050MA44D*	208-230/1	15	15	8.5	Yes	6-15R	435	Medium	210	305	220	360
X*068MA44D*	208-230/1	15	15	9.9	Yes	6-15R	705	Medium	220	315	230	370
X*076MA44D*	208-230/1	15	20	12.3	Yes	6-20R	705	Medium	220	315	230	370
X*106MA44D*	208-230/1	20	20	15.8	Yes	6-20R	1135	Large	295	420	310	485
X*106MA44E*	208-230/3	15	20	12.7	No	-	1135	Large	305	430	320	495
X*134MA44D*	208-230/1	20	30	17.2	No	-	1030	Large	310	435	325	500
X*134MA44E*	208-230/3	20	20	14.2	No	-	1030	Large	310	435	325	500

Low Temp Electric Def. Models	80°F Ambient			90°F Ambient			95°F Ambient			100°F Ambient			110°F Ambient		
	0°F Room	-10°F Room	-20°F Room	0°F Room	-10°F Room	-20°F Room	0°F Room	-10°F Room	-20°F Room	0°F Room	-10°F Room	-20°F Room	0°F Room	-10°F Room	-20°F Room
XN018LE44*	2640	2120	-	2460	1940	-	2360	1850	-	2250	1760	-	2020	-	-
XN024LE44*	3360	2570	1900	3110	2410	1700	3010	2290	1600	2930	2180	1500	2660	1950	1300
X*031LE44*	5130	3960	2770	4540	3420	2290	4250	3160	2040	3960	2900	1790	3390	2380	1260
X*043LE44*	6860	5430	4070	6130	4760	3460	5760	4430	3150	5390	4090	2840	4640	3410	2230
X*051LE44*	8590	6670	4930	7710	5860	4190	7260	5460	3820	6800	5050	3430	5880	4210	2610
X*068LE44*	10840	8620	6760	9690	7530	5690	9100	6970	5140	8510	6420	4590	7320	5320	3450

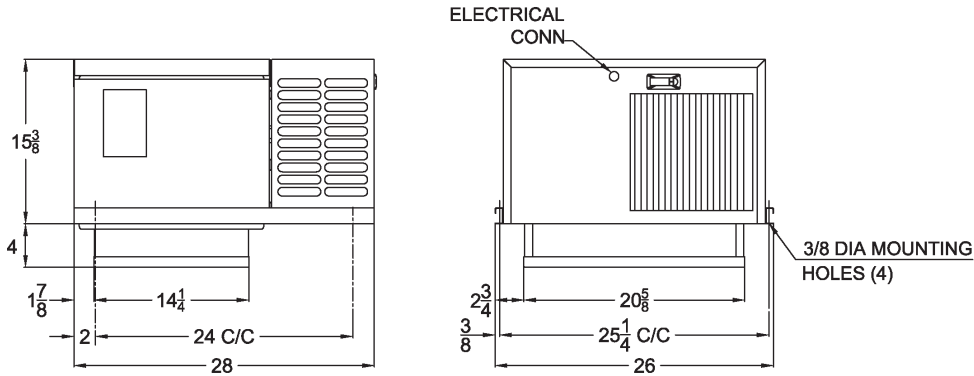
Low Temp Specifications	VOLTS† / PH 60HZ	MCA	MOPD	Unit Amps	Indoor Power Chord	NEMA Recept.	Evap CFM	Cabinet Size	Approximate Weight (LBS)			
									Indoor		Outdoor	
									Net	Ship	Net	Ship
XN018LE44A*	115/1	15	20	11.6	Yes	5-15R	280	Small	140	200	-	-
XN024LE44A*	115/1	15	20	12.8	Yes	5-20R	435	Medium	210	305	-	-
X*024LE44D*	208-230/1	15	15	7.0	Yes	6-15R	435	Medium	210	305	225	365
X*031LE44D*	208-230/1	15	15	12.2	Yes	6-15R	705	Medium	245	340	255	400
X*043LE44D*	208-230/1	20	20	14.0	Yes	6-20R	705	Medium	245	340	255	400
X*051LE44D*	208-230/1	20	20	16.4	Yes	6-20R	1135	Large	315	445	330	510
X*051LE44E*	208-230/3	14	15	13.0	No	-	1135	Large	315	445	330	510
X*068LE44D*	208-230/1	24	30	21.0	No	-	1135	Large	320	450	335	515
X*068LE44E*	208-230/3	20	20	15.2	No	-	1135	Large	320	450	335	515

Min. Amb. : 50°F for indoor models. Max. Amb. : 110°F for all models. † - All 230 volt units can be used as 208 volt. Unit amps are for standard models with electronically commutated evap motors and permanent split capacitor condenser motors.

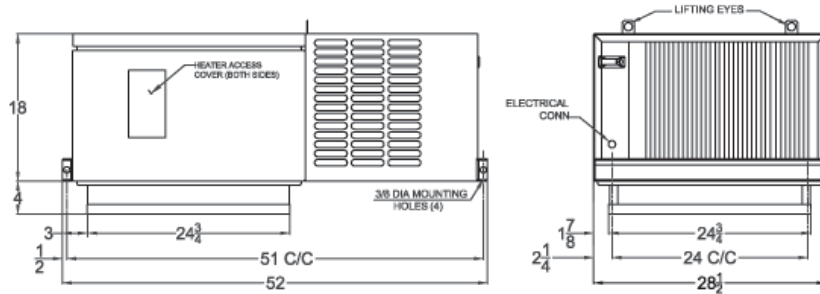
APEX TOP MOUNT REFRIGERATION SYSTEM

Dimensional Drawings

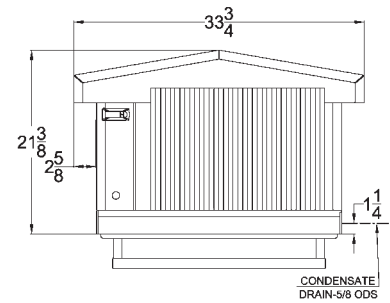
Small Cabinet Size – Indoor



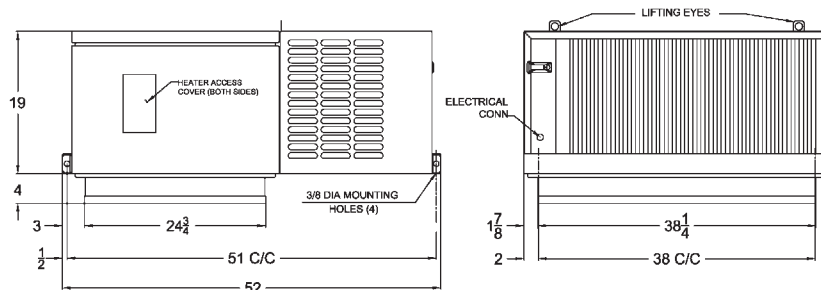
Medium Cabinet Size – Indoor



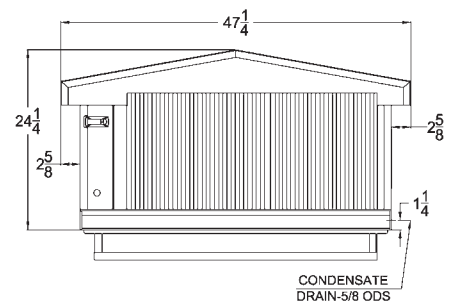
Medium – Outdoor



Large Cabinet Size – Indoor



Large – Outdoor



Due to continuing product development, specifications are subject to change without notice.

LOW PROFILE UNIT COOLERS

Technical Guide

Models ADT | Air Defrost • LET/LLE | Electric Defrost • HGT | Hot Gas Defrost

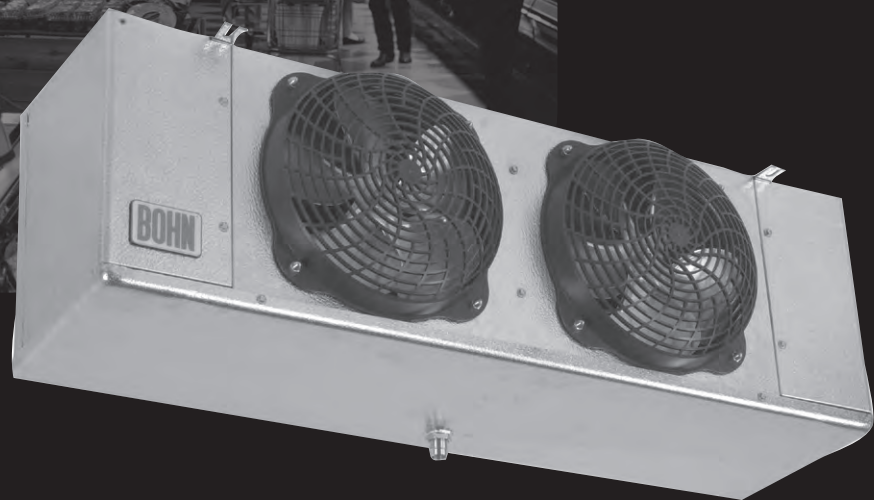


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Choose the most energy-efficient motor available for evaporators.



The EC motor is an Energy Solutions® option on new Bohn Low Profile evaporators. Available on all new equipment or as an easy-to-install, drop-in replacement aftermarket part from InterLink™ Commercial Refrigeration Parts. Because they're a drop-in replacement for existing shaded pole and PSC motors, installation is quick and easy. It's a **high impact, quick payback solution** for reducing costs and achieving green initiatives **without replacing the entire system.**

EC motors by InterLink are **up to 75% efficient** - that's a **51-59% increase over shaded pole motors** and a **30-35% increase over permanent-split capacitor (PSC) motors.** With all of this added efficiency, you can count on more **energy savings and lower operational costs** while taking a step in the right direction toward conserving our planet's resources.

To learn more about EC motors, visit heatcraftprd.com.

Nomenclature

ADT	120	A	K
Model Series	Capacity	Electrical Code	Design Revision
ADT = Air defrost LET = Electric defrost, 6 FPI LLE = Electric defrost, 4 FPI HGT = Hot gas defrost	# x 100 = BTUH	A = 115/1/60 B = 208-230/1/60 C = 208-230/3/60 M = 460/1/60 AH = 115/1/60 (PSC) BH = 208-230/1/60 (PSC) AE = 115/1/60 (EC) BE = 208-230/1/60 (EC) CE = 208-230/3/60 (EC)	

Features & Benefits

Cabinet

- Cabinet design features front access panels on each side for easy access to electrical and refrigeration components
- All electrical components factory wired to terminal board and identified, making it easy to field wire the unit
- Sweat connections to reduce potential for leaks
- Internal panels are isolated for quiet operation
- Liquid line solenoid wire harness is factory-installed for quick installation
- Pre-drilled holes on the back of the unit for room thermostat

Coil

- Internally enhanced tubing and fin design for higher efficiency
- Coil heater slots have been enlarged for easier installation and replacement
- Reduced heater wattages
- Hot gas loop on bottom of coil for easier access is standard for hot gas defrost models
- Fixed defrost termination for electric, adjustable defrost termination for hot gas

Drain Pan

- Large diameter drain hole (3/4" ID) is located on the back of the unit
- Extended drain pan heaters for more uniform defrost throughout the drain pan and additional heat in end compartments
- On 4-6 fan models, drain pan has a lanyard for easy and safe access

Motors

- Motors plug into wiring harness for easier servicing
- EC motors available factory-installed or as a drop-in replacement through InterLink™ Commercial Refrigeration Parts in 115/1/60, 208-230/1/60 and 208-230/3/60 unit voltages
- PSC and PSC (Totally Enclosed) motors for 115/1/60, 208-230/1/60 and 460/1/60 unit voltages
- PSC motors or EC motors required for 50 Hz operation

Options

- Unit Configurations: mounted components, pre-assembled, pre-charged, Split System Controller and Beacon II™
 - Units available with mounted TXV and mounted TXV / solenoid valve
 - Pre-assembled units come with mounted TXV, liquid line solenoid valve and room thermostat. Available in a master liquid line configuration
 - Pre-charged units come with mounted TXV, liquid line solenoid valve, room thermostat and quick connect fittings
 - Various room thermostat variations including rear mount and front access versions
 - Split System Controller units feature the LED display mounted in an access panel and control board wiring completed in the factory
 - Split System Controller replaces the defrost time clock, room thermostat, and defrost termination switch
 - Split System Controller must be ordered in conjunction with mounted components (TXV and liquid line solenoid valve) on the coil
 - Beacon II units come with electronic expansion valves, pressure transducer, temperature sensors and Beacon control board
- Most models available with glycol circuiting (see glycol product brochure)
- Units available with stainless steel housing and drain pan
- Units available with copper fins. Air defrost units also available with polyester coated fins or various coil coatings options
- Units available with insulated drain pan

Performance Data

Model ADT Air Defrost | 60 Hz

Model	Capacity		Fan Data		
	10°F TD 25°F SST	6°C TD -4°C SST	No.	CFM	m³H
	BTUH	Watts			
ADT040	4,000	1,170	1	730	1,240
ADT052	5,200	1,520	1	700	1,189
ADT065	6,500	1,900	1	650	1,104
ADT070	7,000	2,050	2	1,460	2,481
ADT090	9,000	2,640	2	1,400	2,379
ADT104	10,400	3,050	2	1,400	2,379
ADT120	12,000	3,500	2	1,300	2,209
ADT130	13,000	3,810	2	1,300	2,209
ADT140	14,000	4,100	3	2,100	3,568
ADT156	15,600	4,570	3	2,100	3,568
ADT180	18,000	5,270	3	1,950	3,313
ADT208	20,800	6,100	4	2,800	4,758
ADT260	26,000	7,620	5	3,250	5,522
ADT312	31,200	9,140	6	3,900	6,627
ADT370	37,000	10,840	6	3,900	6,627

Model ADT Air Defrost | 50 Hz †

Model	Capacity		Fan Data		
	10°F TD 25°F SST	6°C TD -4°C SST	No.	CFM	m³H
	BTUH	Watts			
ADT040	3,800	1,112	1	670	1,117
ADT052	4,940	1,445	1	630	1,070
ADT065	6,175	1,807	1	586	995
ADT070	6,650	1,946	2	1,315	2,234
ADT090	8,550	2,502	2	1,260	2,142
ADT104	9,880	2,891	2	1,260	2,142
ADT120	11,400	3,335	2	1,170	1,989
ADT130	12,350	3,613	2	1,170	1,989
ADT140	13,300	3,891	3	1,891	3,213
ADT156	14,820	4,336	3	1,891	3,213
ADT180	17,100	5,003	3	1,756	2,984
ADT208	19,760	5,781	4	2,521	4,284
ADT260	24,700	7,226	5	2,927	4,973
ADT312	29,640	8,672	6	3,512	5,967
ADT370	35,150	10,284	6	3,512	5,967

† For EC motors, use 60 Hz capacity and airflow values (Units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

Specifications

Model ADT Air Defrost | 60 Hz

Model	HP	Shaded Pole Motor				PSC, PSC-TE Motor						EC Motor			
		115/1/60		208-230/1/60		115/1/60		208-230/1/60		460/1/60		115/1/60		208-230/1/60	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
ADT040	1/15	1.8	116	1.0	122	1.0	82	0.5	91	0.4	117	0.9	57	0.5	59
ADT052	1/15	1.8	116	1.0	122	1.0	82	0.5	91	0.4	117	0.9	57	0.5	59
ADT065	1/15	1.8	116	1.0	122	1.0	82	0.5	91	0.4	117	0.9	57	0.5	59
ADT070	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	1.8	114	1.0	118
ADT090	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	1.8	114	1.0	118
ADT104	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	1.8	114	1.0	118
ADT120	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	1.8	114	1.0	118
ADT130	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	1.8	114	1.0	118
ADT140	1/15	5.4	348	3.0	366	3.0	246	1.5	273	1.2	351	2.7	171	1.5	177
ADT156	1/15	5.4	348	3.0	366	3.0	246	1.5	273	1.2	351	2.7	171	1.5	177
ADT180	1/15	5.4	348	3.0	366	3.0	246	1.5	273	1.2	351	2.7	171	1.5	177
ADT208	1/15	7.2	464	4.0	488	4.0	328	2.0	364	1.6	468	3.6	228	2.0	236
ADT260	1/15	9.0	580	5.0	610	5.0	410	2.5	455	2.0	585	4.5	285	2.5	295
ADT312	1/15	10.8	696	6.0	732	6.0	492	3.0	546	2.4	702	5.4	342	3.0	354
ADT370	1/15	10.8	696	6.0	732	6.0	492	3.0	546	2.4	702	5.4	342	3.0	354

Model ADT Air Defrost | 50 Hz

Model	HP	PSC Motor						EC Motor			
		110/1/50		220/1/50		380/1/50		110/1/50		220/1/50	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
ADT040	1/15	1.0	68	0.5	65	0.4	82	0.9	57	0.5	59
ADT052	1/15	1.0	68	0.5	65	0.4	82	0.9	57	0.5	59
ADT065	1/15	1.0	68	0.5	65	0.4	82	0.9	57	0.5	59
ADT070	1/15	2.0	136	1.0	130	0.8	164	1.8	114	1.0	118
ADT090	1/15	2.0	136	1.0	130	0.8	164	1.8	114	1.0	118
ADT104	1/15	2.0	136	1.0	130	0.8	164	1.8	114	1.0	118
ADT120	1/15	2.0	136	1.0	130	0.8	164	1.8	114	1.0	118
ADT130	1/15	2.0	136	1.0	130	0.8	164	1.8	114	1.0	118
ADT140	1/15	3.0	204	1.5	195	1.2	246	2.7	171	1.5	177
ADT156	1/15	3.0	204	1.5	195	1.2	246	2.7	171	1.5	177
ADT180	1/15	3.0	204	1.5	195	1.2	246	2.7	171	1.5	177
ADT208	1/15	4.0	272	2.0	260	1.6	328	3.6	228	2.0	236
ADT260	1/15	5.0	340	2.5	325	2.0	410	4.5	285	2.5	295
ADT312	1/15	6.0	408	3.0	390	2.4	492	5.4	342	3.0	354
ADT370	1/15	6.0	408	3.0	390	2.4	492	5.4	342	3.0	354

Performance Data

Model LET/LLE Electric Defrost | 60 Hz

Model	Capacity		Fan Data			
	10°F TD -20°F SST	6°C TD -29°C SST	No.	CFM	m³H	
	BTUH	Watts				
6 Fins Per Inch	LET035	3,500	1,025	1	700	1,189
	LET040	4,000	1,170	1	700	1,189
	LET047	4,700	1,380	1	650	1,104
	LET065	6,500	1,900	2	1,400	2,379
	LET075	7,500	2,200	2	1,300	2,209
	LET090	9,000	2,640	2	1,300	2,209
	LET120	12,000	3,520	3	2,100	3,568
	LET140	14,000	4,100	3	1,950	3,313
	LET160	16,000	4,690	4	2,600	4,418
	LET180	18,000	5,280	4	2,600	4,418
	LET200	20,000	5,860	5	3,250	5,522
	LET240	24,000	7,030	6	3,900	6,627
LET280	28,000	8,200	6	3,900	6,627	
4 Fins Per Inch	LLE041	4,100	1,200	1	690	1,172
	LLE068	6,800	2,000	2	1,380	2,345
	LLE080	8,000	2,340	2	1,380	2,345
	LLE102	10,200	2,990	3	2,170	3,687
	LLE136	13,600	3,990	4	2,760	4,690
	LLE170	17,000	4,980	5	3,450	5,862
	LLE204	20,400	5,980	6	4,140	7,035
	LLE235	23,500	6,880	6	4,140	7,035

Capacity Correction Factors For Electric and Hot Gas Defrost Units

Saturated Suction Temperature °F	+20	-10	-20	-30
Saturated Suction Temperature °C	-7	-23	-29	-34
Multiply Capacity By	1.15	1.04	1.00	0.90

Model LET/LLE Electric Defrost | 50 Hz †

Model	Capacity		Fan Data			
	10°F TD -20°F SST	6°C TD -29°C SST	No.	CFM	m³H	
	BTUH	Watts				
6 Fins Per Inch	LET035	3,325	974	1	630	1,070
	LET040	3,800	1,113	1	630	1,070
	LET047	4,465	1,308	1	586	995
	LET065	6,175	1,809	2	1,260	2,142
	LET075	7,125	2,087	2	1,170	1,989
	LET090	8,550	2,504	2	1,170	1,989
	LET120	11,400	3,339	3	1,891	3,213
	LET140	13,300	3,896	3	1,756	2,984
	LET160	15,200	4,452	4	2,341	3,978
	LET180	17,100	5,009	4	2,341	3,978
	LET200	19,000	5,565	5	2,927	4,973
	LET240	22,800	6,678	6	3,512	5,967
LET280	26,600	7,791	6	3,512	5,967	
4 Fins Per Inch	LLE041	3,895	1,141	1	621	1,056
	LLE068	6,460	1,892	2	1,243	2,111
	LLE080	7,600	2,226	2	1,243	2,111
	LLE102	9,690	2,838	3	1,954	3,320
	LLE136	12,920	3,784	4	2,485	4,223
	LLE170	16,150	4,731	5	3,107	5,279
	LLE204	19,380	5,677	6	3,728	6,334
	LLE235	22,325	6,539	6	3,728	6,334

† For EC motors, use 60 Hz capacity and airflow values (Units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

Specifications

Model LET/LLE Electric Defrost | 60 Hz

Model	HP	Shaded Pole Motor		PSC, PSC-TE Motor				EC Motor		Defrost Heaters				
		208-230/1/60		208-230/1/60		460/1/60		208-230/1/60		Watts	230/1/60	230/3/60	460/1/60	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts		Total Amps			
6 Fins Per Inch	LET035	1/15	1.0	122	0.5	91	0.4	117	0.5	59	900	3.9	2.3	2.0
	LET040	1/15	1.0	122	0.5	91	0.4	117	0.5	59	900	3.9	2.3	2.0
	LET047	1/15	1.0	122	0.5	91	0.4	117	0.5	59	900	3.9	2.3	2.0
	LET065	1/15	2.0	244	1.0	182	0.8	234	1.0	118	1,800	7.8	4.5	3.9
	LET075	1/15	2.0	244	1.0	182	0.8	234	1.0	118	1,800	7.8	4.5	3.9
	LET090	1/15	2.0	244	1.0	182	0.8	234	1.0	118	1,800	7.8	4.5	3.9
	LET120	1/15	3.0	366	1.5	273	1.2	351	1.5	177	2,700	11.7	6.8	5.9
	LET140	1/15	3.0	366	1.5	273	1.2	351	1.5	177	2,700	11.7	6.8	5.9
	LET160	1/15	4.0	488	2.0	364	1.6	468	2.0	236	3,600	15.7	9.0	7.8
	LET180	1/15	4.0	488	2.0	364	1.6	468	2.0	236	3,600	15.7	9.0	7.8
	LET200	1/15	5.0	610	2.5	455	2.0	585	2.5	295	4,500	19.6	11.3	9.8
	LET240	1/15	6.0	732	3.0	546	2.4	702	3.0	354	5,400	23.5	13.6	11.7
LET280	1/15	6.0	732	3.0	546	2.4	702	3.0	354	5,400	23.5	13.6	11.7	
4 Fins Per Inch	LLE041	1/15	1.0	122	0.5	91	0.4	117	0.5	59	900	3.9	2.3	2.0
	LLE068	1/15	2.0	244	1.0	182	0.8	234	1.0	118	1,800	7.8	4.5	3.9
	LLE080	1/15	2.0	244	1.0	182	0.8	234	1.0	118	1,800	7.8	4.5	3.9
	LLE102	1/15	3.0	366	1.5	273	1.2	351	1.5	177	2,700	11.7	6.8	5.9
	LLE136	1/15	4.0	488	2.0	364	1.6	468	2.0	236	3,600	15.7	9.0	7.8
	LLE170	1/15	5.0	610	2.5	455	2.0	585	2.5	295	4,500	19.6	11.3	9.8
	LLE204	1/15	6.0	732	3.0	546	2.4	702	3.0	354	5,400	23.5	13.6	11.7
	LLE235	1/15	6.0	732	3.0	546	2.4	702	3.0	354	5,400	23.5	13.6	11.7

Model LET/LLE Electric Defrost | 50 Hz

Model	HP	PSC Motor				EC Motor		Defrost Heaters				
		220/1/50		380/1/50		220/1/50		Watts	220/1/50	220/3/50	380/1/50	
		Amps	Watts	Amps	Watts	Amps	Watts		Total Amps			
6 Fins Per Inch	LET035	1/15	0.5	65	0.4	82	0.5	59	823	3.7	2.2	1.6
	LET040	1/15	0.5	65	0.4	82	0.5	59	823	3.7	2.2	1.6
	LET047	1/15	0.5	65	0.4	82	0.5	59	823	3.7	2.2	1.6
	LET065	1/15	1.0	130	0.8	164	1.0	118	1,647	7.5	4.3	3.2
	LET075	1/15	1.0	130	0.8	164	1.0	118	1,647	7.5	4.3	3.2
	LET090	1/15	1.0	130	0.8	164	1.0	118	1,647	7.5	4.3	3.2
	LET120	1/15	1.5	195	1.2	246	1.5	177	2,470	11.2	6.5	4.9
	LET140	1/15	1.5	195	1.2	246	1.5	177	2,470	11.2	6.5	4.9
	LET160	1/15	2.0	260	1.6	328	2.0	236	3,294	15.0	8.6	6.5
	LET180	1/15	2.0	260	1.6	328	2.0	236	3,294	15.0	8.6	6.5
	LET200	1/15	2.5	325	2.0	410	2.5	295	4,117	18.7	10.8	8.1
	LET240	1/15	3.0	390	2.4	492	3.0	354	4,941	22.5	13.0	9.7
LET280	1/15	3.0	390	2.4	492	3.0	354	4,941	22.5	13.0	9.7	
4 Fins Per Inch	LLE041	1/15	0.5	65	0.4	82	0.5	59	823	3.7	2.2	1.6
	LLE068	1/15	1.0	130	0.8	164	1.0	118	1,647	7.5	4.3	3.2
	LLE080	1/15	1.0	130	0.8	164	1.0	118	1,647	7.5	4.3	3.2
	LLE102	1/15	1.5	195	1.2	246	1.5	177	2,470	11.2	6.5	4.9
	LLE136	1/15	2.0	260	1.6	328	2.0	236	3,294	15.0	8.6	6.5
	LLE170	1/15	2.5	325	2.0	410	2.5	295	4,117	18.7	10.8	8.1
	LLE204	1/15	3.0	390	2.4	492	3.0	354	4,941	22.5	13.0	9.7
	LLE235	1/15	3.0	390	2.4	492	3.0	354	4,941	22.5	13.0	9.7

Performance Data

Model HGT Hot Gas Defrost | 60 Hz

Model	Capacity		Fan Data			
	10°F TD -20°F SST	6°C TD -29°C SST	No.	CFM	m³H	
	BTUH	Watts				
6 Fins Per Inch	HGT035	3,500	1,025	1	700	1,189
	HGT040	4,000	1,170	1	700	1,189
	HGT047	4,700	1,380	1	650	1,104
	HGT065	6,500	1,900	2	1,400	2,379
	HGT075	7,500	2,200	2	1,300	2,209
	HGT090	9,000	2,640	2	1,300	2,209
	HGT120	12,000	3,520	3	2,100	3,568
	HGT140	14,000	4,100	3	1,950	3,313
	HGT160	16,000	4,690	4	2,600	4,418
	HGT180	18,000	5,280	4	2,600	4,418
	HGT200	20,000	5,860	5	3,250	5,522
	HGT240	24,000	7,030	6	3,900	6,627
HGT280	28,000	8,200	6	3,900	6,627	
4 Fins Per Inch	HGT041	4,100	1,200	1	690	1,172
	HGT068	6,800	2,000	2	1,380	2,345
	HGT080	8,000	2,340	2	1,380	2,345
	HGT102	10,200	2,990	3	2,170	3,687
	HGT136	13,600	3,990	4	2,760	4,690
	HGT170	17,000	4,980	5	3,450	5,862
	HGT204	20,400	5,980	6	4,140	7,035
	HGT235	23,500	6,880	6	4,140	7,035

Capacity Correction Factors For Electric and Hot Gas Defrost Units

Saturated Suction Temperature °F	+20	-10	-20	-30
Saturated Suction Temperature °C	-7	-23	-29	-34
Multiply Capacity By	1.15	1.04	1.00	0.90

NOTE: When using the hot gas units with a hot gas loop drain pan on 0°F applications and below, an insulated drain pan is required.

Model HGT Hot Gas Defrost | 50 Hz †

Model	Capacity		Fan Data			
	10°F TD -20°F SST	6°C TD -29°C SST	No.	CFM	m³H	
	BTUH	Watts				
6 Fins Per Inch	HGT035	3,325	974	1	630	1,070
	HGT040	3,800	1,113	1	630	1,070
	HGT047	4,465	1,308	1	586	995
	HGT065	6,175	1,809	2	1,260	2,142
	HGT075	7,125	2,087	2	1,170	1,989
	HGT090	8,550	2,504	2	1,170	1,989
	HGT120	11,400	3,339	3	1,891	3,213
	HGT140	1,950	3,313	3	1,756	2,984
	HGT160	2,600	4,418	4	2,341	3,978
	HGT180	2,600	4,418	4	2,341	3,978
	HGT200	3,250	5,522	5	2,927	4,973
	HGT240	3,900	6,627	6	3,512	5,967
HGT280	3,900	6,627	6	3,512	5,967	
4 Fins Per Inch	HGT041	690	1,172	1	621	1,056
	HGT068	1,380	2,345	2	1,243	2,111
	HGT080	1,380	2,345	2	1,243	2,111
	HGT102	2,170	3,687	3	1,954	3,320
	HGT136	2,760	4,690	4	2,485	4,223
	HGT170	3,450	5,862	5	3,107	5,279
	HGT204	4,140	7,035	6	3,728	6,334
	HGT235	4,140	7,035	6	3,728	6,334

† For EC motors, use 60 Hz capacity and airflow values (Units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

Specifications

Model HGT Hot Gas Defrost | 60 Hz

Model	HP	Shaded Pole Motor				PSC, PSC-TE Motor						EC Motor				Watts	Drain Pan Heaters*			
		115/1/60		208-230/1/60		115/1/60		208-230/1/60		460/1/60		115/1/60		208-230/1/60			115/1/60	230/1/60	460/1/60	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts		Total Amps			
6 Fins Per Inch	HGT035	1/15	1.8	116	1.0	122	1.0	82	0.5	91	0.4	117	1.1	57	0.6	59	300	2.6	1.3	0.7
	HGT040	1/15	1.8	116	1.0	122	1.0	82	0.5	91	0.4	117	1.1	57	0.6	59	300	2.6	1.3	0.7
	HGT047	1/15	1.8	116	1.0	122	1.0	82	0.5	91	0.4	117	1.1	57	0.6	59	300	2.6	1.3	0.7
	HGT065	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	2.0	114	1.1	118	600	5.2	2.6	1.3
	HGT075	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	2.0	114	1.1	118	600	5.2	2.6	1.3
	HGT090	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	2.0	114	1.1	118	600	5.2	2.6	1.3
	HGT120	1/15	5.4	348	3.0	366	3.0	246	1.5	273	1.2	351	2.9	171	1.6	177	900	7.8	3.9	2.0
	HGT140	1/15	5.4	348	3.0	366	3.0	246	1.5	273	1.2	351	2.9	171	1.6	177	900	7.8	3.9	2.0
	HGT160	1/15	7.2	464	4.0	488	4.0	328	2.0	364	1.6	468	3.8	228	2.1	236	1,200	10.4	5.2	2.6
	HGT180	1/15	7.2	464	4.0	488	4.0	328	2.0	364	1.6	468	3.8	228	2.1	236	1,200	10.4	5.2	2.6
	HGT200	1/15	9.0	580	5.0	610	5.0	410	2.5	455	2.0	585	4.7	285	2.6	295	1,500	13.0	6.5	3.3
	HGT240	1/15	10.8	696	6.0	732	6.0	492	3.0	546	2.4	702	5.6	342	3.1	354	1,800	15.7	7.8	3.9
HGT280	1/15	10.8	696	6.0	732	6.0	492	3.0	546	2.4	702	5.6	342	3.1	354	1,800	15.7	7.8	3.9	
4 Fins Per Inch	HGT041	1/15	1.8	116	1.0	122	1.0	82	0.5	91	0.4	117	1.1	57	0.6	59	300	2.6	1.3	0.7
	HGT068	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	2.0	114	1.1	118	600	5.2	2.6	1.3
	HGT080	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	2.0	114	1.1	118	600	5.2	2.6	1.3
	HGT102	1/15	5.4	348	3.0	366	3.0	246	1.5	273	1.2	351	2.9	171	1.6	177	900	7.8	3.9	2.0
	HGT136	1/15	7.2	464	4.0	488	4.0	328	2.0	364	1.6	468	3.8	228	2.1	236	1,200	10.4	5.2	2.6
	HGT170	1/15	9.0	580	5.0	610	5.0	410	2.5	455	2.0	585	4.7	285	2.6	295	1,500	13.0	6.5	3.3
	HGT204	1/15	10.8	696	6.0	732	6.0	492	3.0	546	2.4	702	5.6	342	3.1	354	1,800	15.7	7.8	3.9
	HGT235	1/15	10.8	696	6.0	732	6.0	492	3.0	546	2.4	702	5.6	342	3.1	354	1,800	15.7	7.8	3.9

Model HGT Hot Gas Defrost | 50 Hz

Model	HP	PSC Motor						EC Motor				Watts	Drain Pan Heaters*			
		110/1/50		220/1/50		380/1/50		110/1/50		220/1/50			110/1/50	220/3/50	380/1/50	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts		Total Amps			
6 Fins Per Inch	HGT035	1/15	1.0	68	0.5	65	0.4	82	1.1	57	0.6	59	275	2.5	1.3	0.6
	HGT040	1/15	1.0	68	0.5	65	0.4	82	1.1	57	0.6	59	275	2.5	1.3	0.6
	HGT047	1/15	1.0	68	0.5	65	0.4	82	1.1	57	0.6	59	275	2.5	1.3	0.6
	HGT065	1/15	2.0	136	1.0	130	0.8	164	2.0	114	1.1	118	549	5.0	2.5	1.1
	HGT075	1/15	2.0	136	1.0	130	0.8	164	2.0	114	1.1	118	549	5.0	2.5	1.1
	HGT090	1/15	2.0	136	1.0	130	0.8	164	2.0	114	1.1	118	549	5.0	2.5	1.1
	HGT120	1/15	3.0	204	1.5	195	1.2	246	2.9	171	1.6	177	823	7.5	3.7	1.6
	HGT140	1/15	3.0	204	1.5	195	1.2	246	2.9	171	1.6	177	823	7.5	3.7	1.6
	HGT160	1/15	4.0	272	2.0	260	1.6	328	3.8	228	2.1	236	1,098	10.0	5.0	2.2
	HGT180	1/15	4.0	272	2.0	260	1.6	328	3.8	228	2.1	236	1,098	10.0	5.0	2.2
	HGT200	1/15	5.0	340	2.5	325	2.0	410	4.7	285	2.6	295	1,372	12.5	6.2	2.7
	HGT240	1/15	6.0	408	3.0	390	2.4	492	5.6	342	3.1	354	1,649	15.0	7.5	3.2
HGT280	1/15	6.0	408	3.0	390	2.4	492	5.6	342	3.1	354	1,649	15.0	7.5	3.2	
4 Fins Per Inch	HGT041	1/15	1.0	68	0.5	65	0.4	82	1.1	57	0.6	59	275	2.5	1.3	0.6
	HGT068	1/15	2.0	136	1.0	130	0.8	164	2.0	114	1.1	118	549	5.0	2.5	1.1
	HGT080	1/15	2.0	136	1.0	130	0.8	164	2.0	114	1.1	118	549	5.0	2.5	1.1
	HGT102	1/15	3.0	204	1.5	195	1.2	246	2.9	171	1.6	177	823	7.5	3.7	1.6
	HGT136	1/15	4.0	272	2.0	260	1.6	328	3.8	228	2.1	236	1,098	10.0	5.0	2.2
	HGT170	1/15	5.0	340	2.5	325	2.0	410	4.7	285	2.6	295	1,372	12.5	6.2	2.7
	HGT204	1/15	6.0	408	3.0	390	2.4	492	5.6	342	3.1	354	1,649	15.0	7.5	3.2
	HGT235	1/15	6.0	408	3.0	390	2.4	492	5.6	342	3.1	354	1,649	15.0	7.5	3.2

* Optional with electric drain pan

Physical Data

Model ADT Air Defrost

Model	No. of Fans	Connections (in.)				Approx. Net Wt.	
		Coil Inlet OD	Suction OD	External Equalizer OD	Drain MPT	lbs.	kg
ADT040	1	1/2	5/8	1/4	3/4	28	13
ADT052	1	1/2	5/8	1/4	3/4	31	15
ADT065	1	1/2	7/8	1/4	3/4	34	16
ADT070	2	1/2	7/8	1/4	3/4	45	21
ADT090	2	1/2	7/8	1/4	3/4	48	22
ADT104	2	1/2	7/8	1/4	3/4	49	23
ADT120	2	1/2	7/8	1/4	3/4	51	24
ADT130	2	1/2	7/8	1/4	3/4	53	25
ADT140	3	1/2	7/8	1/4	3/4	63	29
ADT156	3	1/2	7/8	1/4	3/4	67	31
ADT180	3	1/2	7/8	1/4	3/4	69	32
ADT208	4	1/2	1-1/8	1/4	3/4	82	38
ADT260	5	1/2	1-1/8	1/4	3/4	103	47
ADT312	6	1/2	1-1/8	1/4	3/4	124	57
ADT370	6	1/2	1-3/8	1/4	3/4	127	58

Model LET/LE Electric Defrost

Model	No. of Fans	Connections (in.)				Approx. Net Wt.		
		Coil Inlet OD	Suction OD	External Equalizer OD	Drain MPT	lbs.	kg	
6 Fins Per Inch	LET035	1	1/2	5/8	1/4	3/4	24	11
	LET040	1	1/2	5/8	1/4	3/4	26	12
	LET047	1	1/2	5/8	1/4	3/4	29	14
	LET065	2	1/2	5/8	1/4	3/4	43	20
	LET075	2	1/2	5/8	1/4	3/4	45	21
	LET090	2	1/2	7/8	1/4	3/4	48	22
	LET120	3	1/2	7/8	1/4	3/4	60	28
	LET140	3	1/2	7/8	1/4	3/4	62	29
	LET160	4	1/2	1-1/8	1/4	3/4	81	37
	LET180	4	1/2	1-1/8	1/4	3/4	84	39
	LET200	5	1/2	1-1/8	1/4	3/4	101	46
	LET240	6	1/2	1-1/8	1/4	3/4	121	55
LET280	6	1/2	1-1/8	1/4	3/4	124	57	
4 Fins Per Inch	LLE041	1	1/2	5/8	1/4	3/4	28	13
	LLE068	2	1/2	7/8	1/4	3/4	44	21
	LLE080	2	1/2	7/8	1/4	3/4	47	22
	LLE102	3	1/2	7/8	1/4	3/4	59	27
	LLE136	4	1/2	1-1/8	1/4	3/4	80	37
	LLE170	5	1/2	1-1/8	1/4	3/4	100	46
	LLE204	6	1/2	1-1/8	1/4	3/4	120	55
	LLE235	6	1/2	1-1/8	1/4	3/4	123	56

Physical Data

Model HGT Hot Gas Defrost

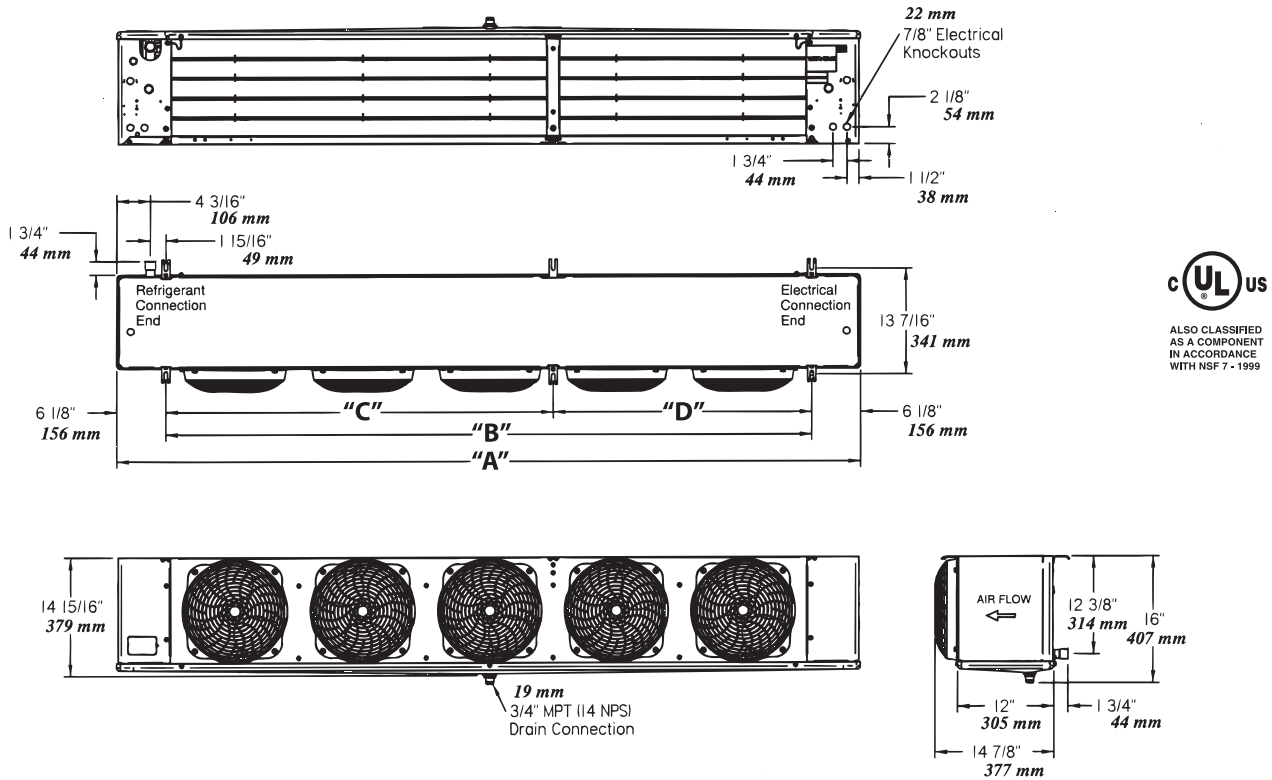
Model	No. of Fans	Connections (in.)						Approx. Net Wt.		
		Coil Inlet ODF	Suction OD	External Equalizer OD	Drain MPT	Side Port OD	Hot Gas Pan Conns. OD	lbs.	kg	
6 Fins Per Inch	HGT035	1	5/8	5/8	1/4	3/4	3/8	5/8	26	12
	HGT040	1	5/8	5/8	1/4	3/4	3/8	5/8	28	13
	HGT047	1	5/8	5/8	1/4	3/4	3/8	5/8	31	15
	HGT065	2	5/8	5/8	1/4	3/4	3/8	5/8	45	21
	HGT075	2	5/8	7/8	1/4	3/4	3/8	5/8	47	22
	HGT090	2	7/8	7/8	1/4	3/4	3/8	5/8	50	23
	HGT120	3	7/8	7/8	1/4	3/4	3/8	5/8	62	29
	HGT140	3	7/8	7/8	1/4	3/4	3/8	5/8	64	30
	HGT160	4	7/8	1-1/8	1/4	3/4	3/8	5/8	83	38
	HGT180	4	1-1/8	1-1/8	1/4	3/4	3/8	5/8	86	40
	HGT200	5	1-1/8	1-1/8	1/4	3/4	3/8	5/8	103	47
	HGT240	6	1-1/8	1-1/8	1/4	3/4	3/8	5/8	123	56
HGT280	6	1-1/8	1-1/8	1/4	3/4	3/8	5/8	126	57	
4 Fins Per Inch	HGT041	1	5/8	5/8	1/4	3/4	3/8	5/8	30	14
	HGT068	2	5/8	7/8	1/4	3/4	3/8	5/8	46	21
	HGT080	2	5/8	7/8	1/4	3/4	3/8	5/8	49	23
	HGT102	3	7/8	7/8	1/4	3/4	3/8	5/8	61	28
	HGT136	4	7/8	1-1/8	1/4	3/4	3/8	5/8	82	38
	HGT170	5	7/8	1-1/8	1/4	3/4	3/8	5/8	102	47
	HGT204	6	7/8	1-1/8	1/4	3/4	3/8	5/8	122	56
HGT235	6	1-1/8	1-1/8	1/4	3/4	3/8	5/8	125	57	

The standard design for the Bohn Low Profile Evaporator incorporates a hot gas loop in the drain pan. Utilizing a hot gas loop is ideal for hot gas defrost applications where high temperature gas can be maintained to defrost both the evaporator drain pan and coil.

For applications where cooler (lower) temperature hot gas is used for defrosting, Bohn offers optional electric heater elements in the drain pan to ensure quick and efficient defrost of the drain pan allowing condensate to drain quickly, saving the hot gas for efficient evaporator coil defrost.

If the optional electric heating element drain pan is preferred, please specify when ordering, there is no additional charge.

Dimensional Data



Dimensional Data For All Models

Air Defrost Model	Electric and Hot Gas Defrost Model		No. of Fans	Dimensions							
				A		B		C		D	
				in.	mm	in.	mm	in.	mm	in.	mm
040	035	-	1	29.50	749.3	17.25	438.1	-	-	-	-
052	040	-	1	29.50	749.3	17.25	438.1	-	-	-	-
065	047	041	1	29.50	749.3	17.25	438.1	-	-	-	-
070	-	-	2	45.50	1,155.7	33.25	845	-	-	-	-
090	065	-	2	45.50	1,155.7	33.25	845	-	-	-	-
104	-	-	2	45.50	1,155.7	33.25	845	-	-	-	-
120	075	068	2	45.50	1,155.7	33.25	845	-	-	-	-
130	090	080	2	45.50	1,155.7	33.25	845	-	-	-	-
140	120	102	3	61.50	1,562.1	49.25	1,251	-	-	-	-
156	-	-	3	61.50	1,562.1	49.25	1,251	-	-	-	-
180	140	-	3	61.50	1,562.1	49.25	1,251	-	-	-	-
208	160	-	4	77.50	1,968.5	65.25	1,657	-	-	-	-
-	180	136	4	77.50	1,968.5	65.25	1,657	-	-	-	-
260	200	170	5	93.50	2,374.9	81.25	2,064	48.63	1,235.1	32.63	828.7
312	240	204	6	109.50	2,781.3	97.25	2,470	48.63	1,235.1	48.63	1,235.1
370	280	235	6	109.50	2,781.3	97.25	2,470	48.63	1,235.1	48.63	1,235.1

NOTE: Hanger brackets will accept 3/8" / 9.5 mm hanger rods.

Hot Gas Reverse Cycle Kits

	Shipped-loose			Factory-installed		
	TXV Bypass Assembly Kits			TXV Bypass Assembly Kits		
	HGT 6 FPI	SQE/SBF	EG	HFESC	SQE/SBF	EG
035-075	50169210	50169213	50169216	52733701	52733704	52733707
090-160	50169211	50169214	50169217	52733702	52733705	52733708
180-280	50169212	50169215	50169218	52733703	52733706	52733709
HGT 4 FPI						
041-080	50169210	50169213	50169216	52733701	52733704	52733707
102-204	50169211	50169214	50169217	52733702	52733705	52733708
235	50169212	50169215	50169218	52733703	52733706	52733709

	Shipped-loose		Factory-installed	
	Drain Pan Loop Check Valve Kit	Suction Line Check Valve Kit	Drain Pan Loop Check Valve Kit	Suction Line Check Valve Kit
HGT 6 FPI				
035-065	50169304	50169604	52733601	52733801
075-140	50169305	50169605	52733602	52733802
160-280	50169306	50169606	52733603	52733803
HGT 4 FPI				
041	50169304	50169604	52733601	52733801
068-102	50169305	50169605	52733602	52733802
136-235	50169306	50169606	52733603	52733803

Recommendation is that both check valve kits are ordered: (For hot gas models with the hot gas loop drain pan ONLY)

NOTE: The drain pan check valve kit can be ordered as an independent item. But the suction line check valve kit must be ordered with the drain pan check valve kit in order to complete the piping.

NOTE: When using the hot gas units with a hot gas loop drain pan on 0°F applications and below, an insulated drain pan is required.

The hot gas unit coolers can be used in reverse cycle hot gas defrost systems using multiple evaporators connected to one condensing unit. Generally, not more than one-third of the system defrosts at one time.

During the reverse cycle defrost, the reversing valve; located in the compressor discharge line, diverts hot gas through the suction line to the evaporator. See piping view in Figure 1. The suction line check valve directs the hot gas through the drain pan loop which prevents condensate in the pan from freezing. The hot gas exits the loop at the pan loop outlet header and enters the evaporator through the check valve assembly. As the hot gas defrosts the coil, heat is removed from the hot gas and eventually it condenses into a liquid and exits the coil at the distributor sideport. The liquid then flows through the check valve of the thermostatic expansion valve bypass assembly, around the thermostatic expansion valve, and into the system liquid line. The liquid refrigerant then feeds other evaporators on the cooling cycle, evaporates, and returns to the compressor through their suction lines.

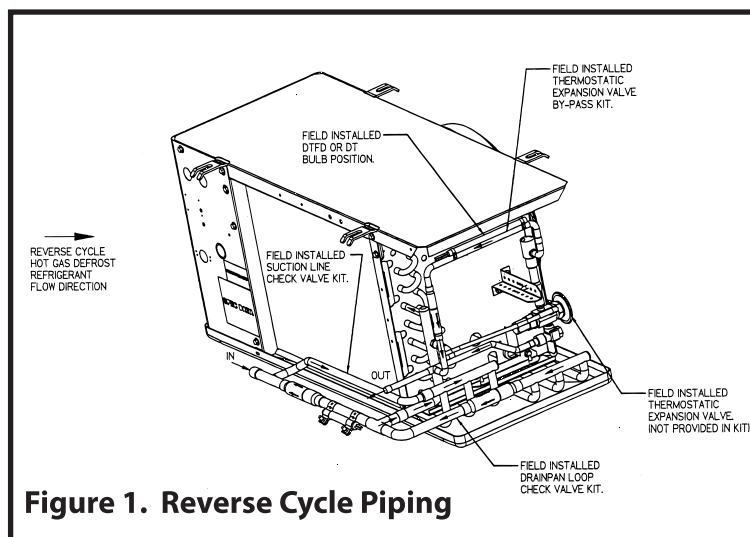


Figure 1. Reverse Cycle Piping

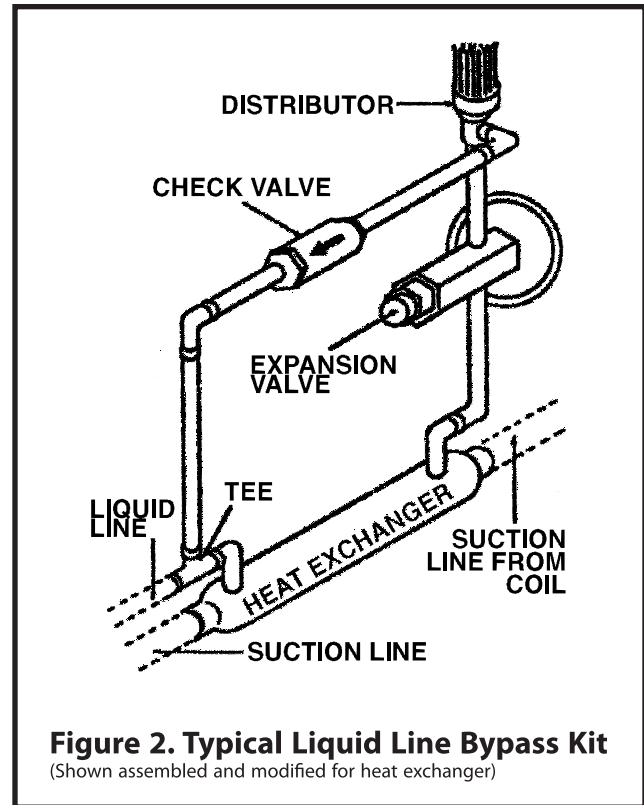
Hot Gas Reverse Cycle Kits (cont.)

In the refrigeration cycle, the thermostatic expansion valve bypass assembly check valve only allows refrigerant flow through the thermostatic expansion valve and into the evaporator coil. As the refrigerant vapor exits the coil at the suction line, the check valve of the drain pan loop check valve assembly prevents the refrigerant vapor flow through the drain pan loop.

Factory engineered assemblies (kits) are available for both shipped-loose and factory-installed at an additional cost to complete the reverse cycle piping and components. The suction line check valve assembly includes the suction line check valve and the piping for both the suction line and the connection to the drain pan loop inlet header. In order for the suction line check valve assembly to be mounted, the drain pan loop check valve assembly must be used. The drain pan loop check valve assembly includes the check valve, suction line tee and a bent pipe. The thermostatic expansion valve bypass assembly option includes the check valve, tee and necessary piping. In order for the thermostatic expansion valve bypass assembly option to be complete, a thermostatic expansion valve must be selected by the sales engineer. The thermostatic expansion valve bypass assembly option is dependent on the body style of the thermostatic expansion valves which includes the Sporlan SQE, SBF, EG and the Alco HFESC body styles. The factory-installed thermostatic expansion valve bypass assembly option must have the thermostatic expansion valve selection included on the order for the hot gas unit cooler.

To increase the efficiency, higher performance and greater system protection, a heat exchanger may be beneficial to the system. In order to use a heat exchanger, the thermostatic expansion valve bypass assembly option must be modified. See the piping view in Figure 2. The modification includes rerouting the pipe from the thermostatic expansion valve bypass check valve to the inlet connection of the liquid line to the heat exchanger. A pipe needs to be routed from the liquid line outlet connection of the heat exchanger to the inlet connection of the thermostatic expansion valve.

The electrical control option includes an adjustable defrost termination and fan delay control (DTFD) which is standard. For an additional cost, an optional (2) control electrical system is available with one adjustable control for defrost termination (DT) and one fixed control for the fan delay (FD). For both the DTFD and DT adjustable controls, the remote bulb position is with the bulb strapped to the piping of the thermostatic expansion valve bypass assembly option between the distributor sideport and the check valve. When the thermostatic expansion valve bypass assembly is shipped-loose, the installer will need to position the remote bulb. When the thermostatic expansion valve bypass assembly is factory-installed, the remote bulb should already be properly installed.



3-Pipe Hot Gas Defrost

The hot gas defrost unit cooler conforms to the standard 3-pipe hot gas system using a check valve assembly, an electrical control to terminate the defrost, and a hot gas solenoid valve. The check valve assembly transports the hot gas between the drain pan loop and the sideport distributor of the coil. The check valve assembly kit is available for shipped-loose or factory-installed for an additional cost.

The electrical control option includes an adjustable defrost termination and fan delay control (DTFD) which is standard. An optional (2) control electrical system is available with one adjustable control for defrost termination (DT) and one fixed control for the fan delay (FD) for an additional cost. For both the DTFD and DT adjustable controls, the remote bulb position is with the bulb strapped to the suction line to insure a complete defrost. The remote bulb is positioned by the installer. The hot gas solenoid valve must be ordered separately and will be shipped-loose. The thermostatic expansion valve could be ordered separately and shipped-loose or the thermostatic expansion valve could be factory-installed with a liquid line for an additional cost.

The liquid line is designed for the body styles of the Sporlan SQE, SBF, EG and the Alco HFESC thermostatic expansion valves. The thermostatic expansion valve needs to be selected by the sales engineer. In a typical 3-pipe, multiple evaporator system, the compressor discharge defrosts the evaporator. The liquid/vapor mixture of refrigerant after defrost, however, returns to the common suction line of the system. In order to provide sufficient re-evaporation of the liquid vapor mixture and sufficient heat for defrost, no more than one-third of the system should be defrosted at one time. Some means of control in the 3-pipe hot gas system should be supplied to regulate the large amount of liquid returning to the compressor, refrigerant slugging can otherwise damage the compressor.

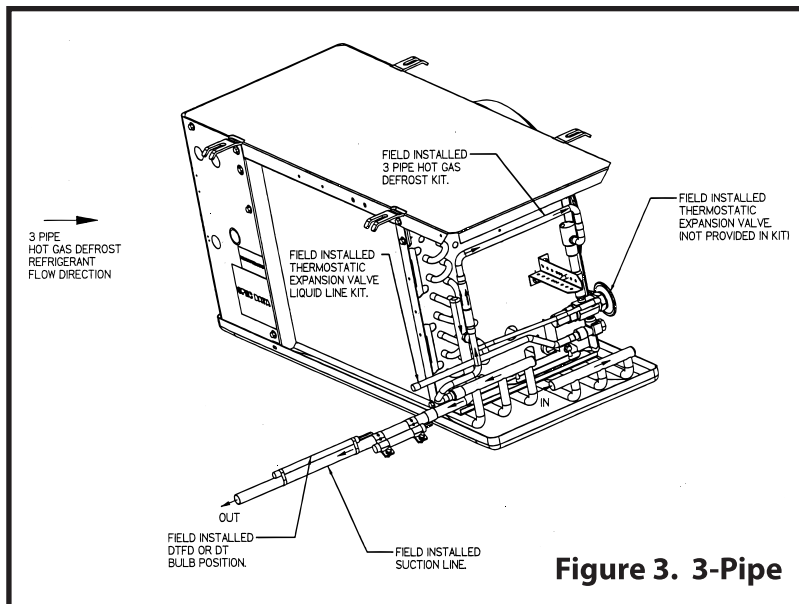


Figure 3. 3-Pipe

	Shipped-loose			Factory-installed		
	TXV Liquid Line			TXV Liquid Line		
HGT 6 FPI	SQE/SBF	EG	HFESC	SQE/SBF	EG	HFESC
035-075	50169410	50169413	50169416	52733901	52733904	52733907
090-160	50169411	50169414	50169417	52733902	52733905	52733908
180-280	50169412	50169415	50169418	52733903	52733906	52733909
HGT 4 FPI						
041-080	50169410	50169413	50169416	52733901	52733904	52733907
102-204	50169411	50169414	50169417	52733902	52733905	52733908
235	50169412	50169415	50169418	52733903	52733906	52733909

For hot gas models with the hot gas loop drain pan only

When using the hot gas units with a hot gas loop drain pan on 0°F applications and below, an insulated drain pan is required.

	Shipped-loose	Factory-installed
	Drain Pan Loop Check Valve Kit	Drain Pan Loop Check Valve Kit
HGT 6 FPI		
035-075	50169504	52739601
090-160	50169505	52739602
180-280	50169506	52739603
HGT 4 FPI		
041-080	50169504	52739601
102-204	50169505	52739602
235	50169506	52739603

Replacement Parts



Right source. Right parts. Right now.

InterLink™ is your link to a complete line of dependable and certified commercial refrigeration parts, accessories and innovative electronic controls for all Bohn equipment. At InterLink, we provide our wholesalers with a comprehensive selection of product solutions and innovative technologies for the installed customer base. And every product is built to ensure the same high performance standards with which all Heatcraft Refrigeration Products (HRP) brands are built — backed by a dedicated team to serve every customer need, delivering at the best lead times in the industry.

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For parts, please contact (800) 686-7278 or visit www.interlinkparts.com.

No. Fans	Air Defrost 6 FPI	Electric & Hot Gas Defrost	
		6 FPI	4 FPI
1	040-065	035-047	041
2	070-130	065-090	068-080
3	140-180	120-140	102
4	208	160-180	136
5	260	200	170
6	312-370	240-280	204-235

Motor/Fan Blade/Fan Guards

Part #	Description	No. Fans
25300101	Motor 115/1/60 Shaded Pole	1 - 6
25300201	Motor 208-230/1/60 Shaded Pole	1 - 6
25309501	Motor 115/1/60/50 Totally Enclosed PSC/PSC	1 - 6
25309601	Motor 208-230/1/60/50 Totally Enclosed PSC	1 - 6
25309701	Motor 460/1/60/50 Totally Enclosed PSC	1 - 6
25309801	Motor 208-230/1/60/50 PSC	1 - 6
25308701	Motor 460/1/60/50 PSC	1 - 6
25317701	Motor 208-230/1/60 EC	1 - 6
25317801	Motor 115/1/60 EC	1 - 6
5140C	Fan Blade	1 - 6
37000701	Fan Guard - Molded	1 - 6
37000601	Fan Guard - Wire	1 - 6
23104901	Motor Mount used with 115 & 230V motors	1 - 6
23103301	Motor Mount used with 460V motors	1 - 6

Cabinet Components

Part #	Description	No. Fans
40480101	Drain Pan Air & Hot Gas Defrost	1
40480201	Drain Pan Air & Hot Gas Defrost	2
40480301	Drain Pan Air & Hot Gas Defrost	3
40480401	Drain Pan Air & Hot Gas Defrost	4
40480501	Drain Pan Air & Hot Gas Defrost	5
40480601	Drain Pan Air & Hot Gas Defrost	6
40480103	Drain Pan Electric Defrost	1
40480205	Drain Pan Electric Defrost	2
40480305	Drain Pan Electric Defrost	3
40480403	Drain Pan Electric Defrost	4
40480503	Drain Pan Electric Defrost	5
40480603	Drain Pan Electric Defrost	6
40880801	Access Panel - Elect.	1 - 6
40880701	Access Panel - Refrig.	1 - 6
40880901	Back Panel - Refrig.	1 - 6
40881001	Back Panel - Elect.	1 - 6
40881201	End Panel - Hot Gas Refrig.	1 - 6

Hot Gas Defrost - Electric Drain Pan Option Drain Pan Heater (1 per unit)

Part #	Description	Voltage	No. Fans
24752101	300 W	115/1/60	1
24752102	600 W	115/1/60	2
24752103	900 W	115/1/60	3
24752104	1200 W	115/1/60	4
24752105	1500 W	115/1/60	5
24752106	1800 W	115/1/60	6
24752201	300 W	208-230/1/60	1
24752202	600 W	208-230/1/60	2
24752203	900 W	208-230/1/60	3
24752204	1200 W	208-230/1/60	4
24752205	1500 W	208-230/1/60	5
24752206	1800 W	208-230/1/60	6
24752301	300 W	460/1/60	1
24752302	600 W	460/1/60	2
24752303	900 W	460/1/60	3
24752304	1200 W	460/1/60	4
24752305	1500 W	460/1/60	5
24752306	1800 W	460/1/60	6

Electric Defrost

Part #	Description	Voltage	No. Fans
Coil Heater			
24752001	300 W	208-230/1/60	1
24752002	600 W	208-230/1/60	2
24752003	900 W	208-230/1/60	3
24752004	1200 W	208-230/1/60	4
24752005	1500 W	208-230/1/60	5
24752006	1800 W	208-230/1/60	6
Bottom Coil Heater			
24752401	150 W	208-230/1/60	1
24752402	300 W	208-230/1/60	2
24752403	450 W	208-230/1/60	3
24752404	600 W	208-230/1/60	4
24752405	750 W	208-230/1/60	5
24752406	900 W	208-230/1/60	6
Drain Pan Heater			
24752501	150 W	208-230/1/60	1
24752502	300 W	208-230/1/60	2
24752503	450 W	208-230/1/60	3
24752504	600 W	208-230/1/60	4
24752505	750 W	208-230/1/60	5
24752506	900 W	208-230/1/60	6

Electrical Components

Part #	Description	No. Fans
22512601	Terminal Strip	1 - 6
5709L	Defrost Termination/Fan Delay — Klixon type	1 - 6
4267W	Defrost Termination/Fan Delay — Adjustable type	1 - 6
2891040	Room Thermostat	1 - 6
5708L	Heater Safety — Klixon type	1 - 6

Drain Fittings

Part #	Description	No. Fans
26925101	Drain Fitting Kit	1 - 6

Standard Nozzle Selection

Model ADT Air Defrost

Model	No. of Fans	Distributor Tube (in.)		No. of Circuits	R-404A	R-22
		OD	Length			
ADT040	1	3/16	15	1	-	-
ADT052	1	3/16	15	1	-	-
ADT065	1	3/16	15	2	L-1/2	L-1/3
ADT070	2	3/16	15	2	L-1/2	L-1/3
ADT090	2	3/16	15	3	L-3/4	L-1/2
ADT104	2	3/16	15	3	L-3/4	L-1/2
ADT120	2	3/16	15	3	L-1	L-3/4
ADT130	2	3/16	15	4	L-1	L-3/4
ADT140	3	3/16	15	4	L-1	L-3/4
ADT156	3	3/16	15	5	L-1-1/2	L-1
ADT180	3	3/16	15	5	L-1-1/2	L-1
ADT208	4	3/16	15	5	L-1-1/2	L-1
ADT260	5	3/16	15	9	L-2	L-1-1/2
ADT312	6	3/16	15	9	L-2-1/2	L-2
ADT370	6	3/16	15	10	L-3	L-2

Model LET/LLE Electric Defrost

Model	No. of Fans	Distributor Tube (in.)		No. of Circuits	Low Temp. -30°F to 0°F SST -34°C to -18°C SST		Medium Temp. 10°F to 25°F SST -12°C to -4°C SST	
		OD	Length		R-404A	R-22	R-404A	R-22
					6 Fins Per Inch		4 Fins Per Inch	
LET035	1	3/16	15	2	L-1/2	L-1/4	L-1/3	L-1/4
LET040	1	3/16	15	2	L-1/2	L-1/4	L-1/3	L-1/4
LET047	1	3/16	15	2	L-1/2	L-1/3	L-1/3	L-1/3
LET065	2	3/16	15	4	L-3/4	L-1/2	L-1/2	L-1/2
LET075	2	3/16	15	4	L-1	L-3/4	L-3/4	L-1/2
LET090	2	3/16	15	5	L-1	L-3/4	L-3/4	L-1/2
LET120	3	3/16	15	5	L-1-1/2	L-1	L-1	L-3/4
LET140	3	3/16	15	6	L-1-1/2	L-1	L-1-1/2	L-1
LET160	4	3/16	15	8	L-2	L-1	L-1-1/2	L-1
LET180	4	3/16	15	10	L-2	L-1-1/2	L-1-1/2	L-1
LET200	5	3/16	15	9	L-2-1/2	L-1-1/2	L-2	L-1-1/2
LET240	6	3/16	15	9	L-2-1/2	L-2	L-2	L-1-1/2
LET280	6	3/16	15	10	L-3	L-2	L-2-1/2	L-2
LLE041	1	3/16	15	2	L-1/2	L-1/3	L-1/3	L-1/4
LLE068	2	3/16	15	4	L-3/4	L-1/2	L-1/2	L-1/3
LLE080	2	3/16	15	4	L-1	L-3/4	L-3/4	L-1/2
LLE102	3	3/16	15	5	L-1	L-3/4	L-3/4	L-3/4
LLE136	4	3/16	15	8	L-1-1/2	L-1	L-1	L-3/4
LLE170	5	3/16	15	8	L-2	L-1-1/2	L-1-1/2	L-1
LLE204	6	3/16	15	8	L-2-1/2	L-1-1/2	L-2	L-1-1/2
LLE235	6	3/16	15	10	L-2-1/2	L-2	L-2	L-1-1/2

Model HGT Hot Gas Defrost

Model	No. of Fans	Distributor Tube (in.)		No. of Circuits	Low Temp. -30°F to 0°F SST -34°C to -18°C SST		Medium Temp. 10°F to 25°F SST -12°C to -4°C SST	
		OD	Length		R-404A	R-22	R-404A	R-22
					6 Fins Per Inch		4 Fins Per Inch	
HGT035	1	1/4	15	2	J-1/2	J-1/4	J-1/3	J-1/4
HGT040	1	1/4	15	2	J-1/2	J-1/3	J-1/3	J-1/4
HGT047	1	1/4	15	2	J-3/4	J-1/3	J-1/2	J-1/4
HGT065	2	1/4	15	4	J-1	J-1/2	J-3/4	J-1/3
HGT075	2	1/4	15	4	J-1	J-3/4	J-3/4	J-1/2
HGT090	2	1/4	15	5	G-1-1/2	G-3/4	G-3/4	G-1/2
HGT120	3	1/4	15	5	G-1-1/2	G-1	G-1	G-3/4
HGT140	3	1/4	15	6	G-2	G-1	G-1-1/2	G-1
HGT160	4	1/4	15	8	G-2	G-1-1/2	G-1-1/2	G-1
HGT180	4	1/4	15	10	E-2-1/2	E-1-1/2	E-1-1/2	E-1
HGT200	5	1/4	15	9	E-2-1/2	E-2	E-2	E-1-1/2
HGT240	6	1/4	15	9	E-3	E-2	E-2	E-1-1/2
HGT280	6	1/4	15	10	E-4	E-2-1/2	E-2-1/2	E-2
HGT041	1	1/4	15	2	J-1/2	J-1/3	J-1/3	J-1/4
HGT068	2	1/4	15	4	J-1	J-1/2	J-3/4	J-1/2
HGT080	2	1/4	15	4	J-1	J-3/4	J-3/4	J-1/2
HGT102	3	1/4	15	5	G-1-1/2	G-3/4	G-1	G-3/4
HGT136	4	1/4	15	8	G-2	G-1	G-1-1/2	G-1
HGT170	5	1/4	15	8	G-2	G-1-1/2	G-1-1/2	G-1
HGT204	6	1/4	15	8	G-2-1/2	G-2	G-2	G-1-1/2
HGT235	6	1/4	15	10	E-3	E-2	E-2	E-1-1/2

Notes

Notes



For more information on Bohn refrigeration products, contact your sales representative or visit us at heatcraftprd.com.

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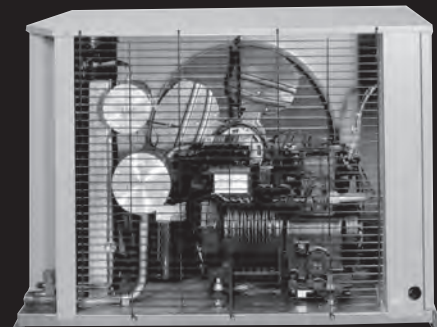
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M Series

AIR-COOLED CONDENSING UNITS

1/2-6 HP Indoor and Outdoor Models

Technical Guide



MOH • MOZ • MOS

1/2 To 6 HP Indoor & Outdoor Condensing Units

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Nomenclature

MO	Z	030	L	6	2	M
Model	Compressor	Equiv. HP	Temp.	Refrigerant	Voltage	Identifier
MO= OEM	H = Hermetic S = Semi-herm. Z = Scroll	005 = 1/2 HP 008 = 3/4 HP 010, 011 = 1 HP 01* = 1-1/2 HP 02* = 2 HP 03* = 3 HP 04* = 4 HP 05* = 5 HP 060 = 6 HP	H = High (semi-herm.) D = High (hermetic) L = Low M = Medium X = Extended Medium	2 = R-22 (semi-herm.) 7 = R-22 (hermetic) 6 = R-404A	2 = 208/230/1/60 3 = 208/230/3/60 4 = 460/3/60 8 = 230/3/60	C = Outdoor CF = Outdoor Stock N = Indoor S = Beacon II™ Microprocessor CFT = Medium Temp. Stock with Timer

1/2 To 6 HP Indoor & Outdoor Condensing Units

Features & Benefits

Cabinet & Construction

- HyperCore™ microchannel coil technology standard on all units
- Painted steel cabinets for superior strength and corrosion protection
- Heavy duty steel raised base with 1-1/2" legs
- Fan guards and wiring conduit on indoor models

Serviceability

- Suction service valves for hermetic and scroll compressors located outside the cabinet for quick installations. Semi-hermetic compressor models have a suction valve on the compressor and an access fitting on the suction line entering the cabinet.
- Receiver with fusible plug, liquid shutoff valve and charging port is standard
- Large electrical panel for ease of access
- Prefabricated wiring harnesses for tight crimp connections and consistent labeling
- Unit stays on if the hood is removed for servicing
- Sight glass is easily viewable

Quality

- All units are completely leak tested in a helium environment, bump tested and allowed to cycle off on the high and low pressure control. Each unit has a copy of the run data shipped inside the electrical panel
- Electrical circuits are completely checked for continuity
- Piping is laid out to minimize stress and vibration and is pre-bent to eliminate leaks
- 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)

Components

Fan

- Specifically matched with motor and coil to attain maximum air movement and cooling

Motor

- Rated for 50 and 60 cycle application
- Standard PSC or optional Variable Speed EC (VSEC) with Orbus™ Controller

Compressor

- Wide variety of compressors including: hermetic, semi-hermetic and scroll. R-22 and R-404A/507 available for both medium and low temperature applications
- Spring-mounted compressors with vibration eliminators on all 1-1/2 to 6 HP semi-hermetic compressors; 1/2 to 1 HP compressors are rigid mounted and have a discharge loop
- Discharge service valves come standard on all units including hermetics



Typical Outdoor Hermetic Unit



Typical Outdoor Unit with throwaway liquid-line filter and sight glass



Typical Outdoor Hermetic Unit with liquid filter drier and sight glass

1/2 To 6 HP Indoor & Outdoor Condensing Units

Options

Electrical options:	Outdoor	Indoor	Stock
Adjustable low pressure control for medium temp. comp.	Option	Option	NA
Air or electric defrost timer only	Option	Option	1/2-3 HP low temp.
Beacon II™ control kits	Option	NA	NA
Crankcase heater	Standard	NA	Standard
Dual pressure control (not available on Beacon II™)	Option	Option	NA
Elec. defrost with timer & contactors (040-060 models only)	Option	Option	4-6 HP low temp.
Fixed fan cycling (2 fan units) - pressure or temperature (pressure standard on Beacon II™)	Option	Option	NA
Fused disconnect/non-fused disconnect	Option	Shipped loose	NA
Phase loss / low voltage monitor	Option	Option	NA
Smart Defrost Kit™ (Factory-Installed)	Option	Option	NA
Variable speed EC (VSEC) motors with Orbus™ controller	Option	NA	NA
Mechanical options:	Outdoor	Indoor	Stock
12" Extended legs for snowbelt operation	Shipped loose	Shipped loose	Shipped loose
Head pressure control flooding valve	Standard	Option	Standard
Liquid line drier, sight glass	Option	Option	Standard
Liquid line solenoid valve and pumpdown switch	Option	Option	NA
Low ambient kit with heated and insulated receiver, TD relay	Option	NA	NA
Oil separator with discharge line check valve (D cabinet)	Option	Option	NA
Oversize receiver (D cabinet)	Option	Option	NA
Precharged refrigerant with quick connect fittings	Option	Option	NA
Replaceable core liquid line filter (D cabinet)	Option	Option	NA
Replaceable core suction line filter (D cabinet)	Option	Option	NA
Suction accumulator	Option	Option	NA
Suction line filter	Option	Option	NA



The Beacon II™ Refrigeration System is a preassembled, factory installed refrigeration system featuring an integrated microcomputer based electronic control board.

The Beacon II™ Refrigeration System replaces the expansion valve, solenoid valve, room thermostat, defrost control and timer. It comes factory preset thereby eliminating all of the expensive and time consuming fine tuning and adjustments necessary for a good system installation. For additional information, contact your Sales Representative.

1/2 To 6 HP Indoor & Outdoor Condensing Units

HERMETIC COMPRESSORS Performance Data - High Temperature (R-404A/507)

R-404A/507 Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature	
		40°F	35°F
MOH005D6	RST45C1E	8,910	8,150
MOH009D6	RST64C1E	12,520	11,570
MOH010D6†	RS70C1E	13,720	12,610
MOH015D6	CS10K6E	21,400	19,460
MOH025D6	CS14K6E	26,320	24,270
MOH032D6	CS20K6E	42,890	39,110
MOH040D6	CS27K6E	52,240	48,170
MOH050D6	CS33K6E	57,030	52,650

R-404A/507 Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature	
		40°F	35°F
MOH005D6	RST45C1E	8,510	7,790
MOH009D6	RST64C1E	11,980	11,080
MOH010D6†	RS70C1E	13,010	11,960
MOH015D6	CS10K6E	20,260	18,400
MOH025D6	CS14K6E	25,000	23,030
MOH032D6	CS20K6E	40,730	37,110
MOH040D6	CS27K6E	49,580	45,670
MOH050D6	CS33K6E	54,240	50,060

R-404A/507 Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature	
		40°F	35°F
MOH005D6	RST45C1E	8,120	7,430
MOH009D6	RST64C1E	11,440	10,580
MOH010D6†	RS70C1E	12,310	11,320
MOH015D6	CS10K6E	19,120	17,350
MOH025D6	CS14K6E	23,690	21,810
MOH032D6	CS20K6E	38,560	35,100
MOH040D6	CS27K6E	46,920	43,180
MOH050D6	CS33K6E	51,440	47,460

R-404A/507 Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature	
		40°F	35°F
MOH005D6	RST45C1E	7,340	6,710
MOH009D6	RST64C1E	10,350	9,580
MOH010D6†	RS70C1E	10,920	10,040
MOH015D6	CS10K6E	16,880	15,280
MOH025D6	CS14K6E	21,100	19,410
MOH032D6	CS20K6E	34,210	31,070
MOH040D6	CS27K6E	41,630	38,220
MOH050D6	CS33K6E	45,860	42,260

† = RS compressor not suitable for R-507

1/2 To 6 HP Indoor & Outdoor Condensing Units

HERMETIC COMPRESSORS

Performance Data - Extended Temperature (R-404A/507)

R-404A/507 Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature						
		30°F	25°F	20°F	0°F	-10°F	-20°F	-25°F
MOH005X6	RST45C1E	6,850	6,270	5,710	3,690	2,810	1,980	1,550
MOH008X6	RST55C1E	8,130	7,450	6,790	4,430	3,490	2,710	2,400
MOH009X6	RST64C1E	9,590	8,820	8,080	5,350	4,240	3,270	2,850
MOH010X6†	RS70C1E	10,060	9,300	8,660	5,540	4,080	2,750	2,050
MOH015X6	CS10K6E	16,430	15,090	13,550	7,910	5,280	3,610	2,970
MOH020X6	CS12K6E	18,590	17,000	15,420	9,110	6,330	4,030	3,270
MOH025X6	CS14K6E	20,150	18,630	17,270	10,900	8,050	5,740	4,760
MOH030X6	CS18K6E	29,490	27,030	24,550	14,390	10,600	7,380	6,180
MOH032X6	CS20K6E	32,420	29,620	26,840	15,930	12,200	8,780	7,000
MOH040X6	CS27K6E	43,970	39,510	35,150	20,560	14,980	11,830	8,690
MOH050X6	CS33K6E	44,600	43,160	39,300	24,160	17,610	13,500	11,700

R-404A/507 Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature						
		30°F	25°F	20°F	0°F	-10°F	-20°F	-25°F
MOH005X6	RST45C1E	6,530	5,970	5,440	3,510	2,660	1,850	1,430
MOH008X6	RST55C1E	7,730	7,070	6,440	4,180	3,280	2,550	2,250
MOH009X6	RST64C1E	9,150	8,420	7,710	5,090	4,020	3,100	2,690
MOH010X6†	RS70C1E	9,400	8,850	8,170	5,120	3,770	2,610	1,820
MOH015X6	CS10K6E	15,400	13,960	12,800	7,220	5,060	3,330	2,630
MOH020X6	CS12K6E	17,490	16,000	14,470	8,370	5,830	3,860	2,830
MOH025X6	CS14K6E	18,920	17,490	16,250	10,090	7,530	5,230	4,330
MOH030X6	CS18K6E	27,840	25,490	23,130	13,480	9,710	6,750	5,620
MOH032X6	CS20K6E	30,530	27,890	25,240	14,800	11,200	7,930	6,220
MOH040X6	CS27K6E	41,480	37,270	33,160	19,400	14,130	11,160	8,200
MOH050X6	CS33K6E	42,300	41,000	37,180	22,370	17,300	12,700	10,900

R-404A/507 Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature						
		30°F	25°F	20°F	0°F	-10°F	-20°F	-25°F
MOH005X6	RST45C1E	6,200	5,670	5,170	3,330	2,510	1,720	1,310
MOH008X6	RST55C1E	7,320	6,700	6,090	3,930	3,070	2,390	2,100
MOH009X6	RST64C1E	8,720	8,010	7,340	4,830	3,810	2,920	2,540
MOH010X6†	RS70C1E	8,790	8,290	7,680	4,760	3,430	2,230	1,570
MOH015X6	CS10K6E	14,210	13,150	11,780	6,660	4,580	2,930	2,270
MOH020X6	CS12K6E	16,410	14,990	13,380	7,700	5,280	3,420	2,420
MOH025X6	CS14K6E	17,730	16,390	15,220	9,390	6,950	4,770	3,930
MOH030X6	CS18K6E	26,190	23,970	21,800	12,570	8,880	6,120	5,110
MOH032X6	CS20K6E	28,600	26,160	23,750	13,740	10,300	7,050	5,370
MOH040X6	CS27K6E	38,980	35,030	31,180	18,240	13,290	10,500	7,700
MOH050X6	CS33K6E	39,800	38,760	34,810	20,760	16,200	11,800	10,000

R-404A/507 Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature						
		30°F	25°F	20°F	0°F	-10°F	-20°F	-25°F
MOH005X6	RST45C1E	5,540	5,060	4,610	2,950	2,210	1,470	1,080
MOH008X6	RST55C1E	6,530	5,970	5,410	3,450	2,670	2,070	1,820
MOH009X6	RST64C1E	7,830	7,200	6,580	4,310	3,390	2,580	2,250
MOH010X6†	RS70C1E	7,700	7,140	6,590	4,080	3,010	1,680	-
MOH015X6	CS10K6E	12,150	11,110	10,030	5,410	3,650	2,140	1,540
MOH020X6	CS12K6E	14,270	12,980	11,550	6,460	4,410	2,580	1,660
MOH025X6	CS14K6E	15,430	14,450	13,230	8,100	5,760	3,860	2,990
MOH030X6	CS18K6E	23,000	21,020	18,970	10,810	7,100	4,940	4,140
MOH032X6	CS20K6E	24,840	22,790	20,580	11,490	8,260	5,270	3,630
MOH040X6	CS27K6E	35,150	31,240	27,520	15,210	11,290	8,920	6,550
MOH050X6	CS33K6E	35,200	34,060	30,530	19,000	14,100	10,400	9,010

† = RS compressor not suitable for R-507

1/2 To 6 HP Indoor & Outdoor Condensing Units

HERMETIC COMPRESSORS

Performance Data - Low Temperature (R-404A/507)

R-404A/507 Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature					
		0°F	-5°F	-10°F	-20°F	-25°F	-30°F
MOH011L6	CF04K6E	7,030	6,240	5,370	3,850	3,330	2,630
MOH014L6	CF06K6E	10,500	9,380	7,830	6,090	4,890	4,080
MOH019L6	CF06K6E	12,100	10,180	8,910	6,580	5,530	4,570
MOH025L6	CF09K6E	15,550	14,500	12,700	9,000	7,560	6,230
MOH031L6	CF12K6E	18,840	17,800	15,140	11,540	9,790	8,070

R-404A/507 Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature					
		0°F	-5°F	-10°F	-20°F	-25°F	-30°F
MOH011L6	CF04K6E	6,840	5,750	4,920	3,650	3,020	2,360
MOH014L6	CF06K6E	9,900	8,840	7,750	5,670	4,710	3,680
MOH019L6	CF06K6E	11,400	10,100	8,750	6,040	5,030	4,150
MOH025L6	CF09K6E	15,400	13,700	12,000	8,300	6,950	5,750
MOH031L6	CF12K6E	17,690	16,800	14,360	10,910	9,170	7,470

R-404A/507 Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature					
		0°F	-5°F	-10°F	-20°F	-25°F	-30°F
MOH011L6	CF04K6E	6,310	5,170	4,460	3,300	2,660	2,070
MOH014L6	CF06K6E	9,310	8,280	7,280	5,280	4,350	3,510
MOH019L6	CF06K6E	10,700	9,430	8,170	5,810	4,570	3,700
MOH025L6	CF09K6E	14,500	12,800	11,200	8,130	6,410	5,220
MOH031L6	CF12K6E	17,600	15,090	13,410	10,700	9,040	7,320

R-404A/507 Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature					
		0°F	-5°F	-10°F	-20°F	-25°F	-30°F
MOH011L6	CF04K6E	5,240	4,450	3,620	2,630	2,100	-
MOH014L6	CF06K6E	8,310	7,340	6,420	4,580	3,730	2,990
MOH019L6	CF06K6E	9,330	8,170	7,040	4,920	3,980	3,090
MOH025L6	CF09K6E	12,700	11,400	9,900	7,030	5,760	4,590
MOH031L6	CF12K6E	15,700	14,000	12,400	9,250	7,690	6,100

1/2 To 6 HP Indoor & Outdoor Condensing Units

HERMETIC COMPRESSORS

Performance Data - Medium & High Temperature (R-22)

R-22 Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature						
		40°F	30°F	25°F	20°F	15°F	10°F	0°F
MOH005D7	ART82C1	7,470	5,640	5,090	4,610	4,170	3,740	2,940
MOH008D7	RS64C2	10,690	8,990	8,080	7,310	6,610	5,850	4,540
MOH010D7	RS70C1	11,360	10,100	8,620	7,730	6,840	6,070	4,280
MOH015D7	CR18KQ	-	14,580	12,910	11,350	9,910	8,100	5,650
MOH020D7	CR24KQ	24,360	19,930	17,760	15,650	13,650	11,640	8,560
MOH029M2	CR37KQ	-	26,210	23,630	21,300	18,870	16,620	11,700
MOH030D7	CR37KQ	41,190	33,300	29,500	25,830	22,330	19,040	13,210
MOH040D7	CR53KQ	57,430	46,140	40,790	35,620	30,740	26,150	18,100
MOH050D7	CRN-0500	64,770	52,240	46,250	40,490	35,010	29,860	20,740

R-22 Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature						
		40°F	30°F	25°F	20°F	15°F	10°F	0°F
MOH005D7	ART82C1	7,170	5,410	4,870	4,410	3,990	3,580	2,790
MOH008D7	RS64C2	10,280	8,540	7,740	6,980	6,310	5,580	4,320
MOH010D7	RS70C1	10,870	9,120	8,150	7,350	6,490	5,740	3,870
MOH015D7	CR18KQ	-	13,830	12,210	10,670	9,260	7,510	5,130
MOH020D7	CR24KQ	23,190	18,980	16,910	14,900	12,990	11,090	8,150
MOH029M2	CR37KQ	-	25,100	22,780	20,270	17,880	15,450	10,900
MOH030D7	CR37KQ	38,230	31,710	28,090	24,610	21,260	18,140	12,580
MOH040D7	CR53KQ	54,690	43,950	38,840	33,930	29,270	24,920	17,240
MOH050D7	CRN-0500	61,680	49,760	44,050	38,560	33,340	28,440	19,750

R-22 Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature						
		40°F	30°F	25°F	20°F	15°F	10°F	0°F
MOH005D7	ART82C1	6,850	5,200	4,680	4,430	3,990	3,410	-
MOH008D7	RS64C2	9,850	8,160	7,400	6,660	5,970	5,310	-
MOH010D7	RS70C1	10,380	8,690	7,820	6,910	6,140	5,410	-
MOH015D7	CR18KQ	-	13,070	11,500	10,000	8,600	6,890	4,410
MOH020D7	CR24KQ	22,030	18,030	16,070	14,160	12,340	10,540	7,740
MOH029M2	CR37KQ	-	23,980	21,720	19,260	16,910	14,470	-
MOH030D7	CR37KQ	37,270	30,130	26,690	23,380	20,200	17,220	11,950
MOH040D7	CR53KQ	51,960	41,760	36,890	32,240	27,820	23,670	16,390
MOH050D7	CRN-0500	58,600	47,270	41,850	36,630	31,680	27,020	18,760

R-22 Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature						
		40°F	30°F	25°F	20°F	15°F	10°F	0°F
MOH005D7	ART82C1	6,240	4,960	4,430	4,010	3,550	3,190	-
MOH008D7	RS64C2	8,930	7,820	6,710	6,020	5,390	4,770	-
MOH010D7	RS70C1	9,490	8,250	6,950	6,170	5,440	4,380	-
MOH015D7	CR18KQ	-	11,590	10,100	8,230	6,880	5,650	-
MOH020D7	CR24KQ	19,770	16,180	14,410	12,680	11,000	9,400	6,490
MOH029M2	CR37KQ	-	21,750	19,600	17,030	14,730	12,520	-
MOH030D7	CR37KQ	33,900	27,120	23,870	20,760	17,820	15,080	10,350
MOH040D7	CR53KQ	48,390	38,470	33,780	29,320	25,120	21,230	14,550
MOH050D7	CRN-0500	54,770	43,730	38,490	33,470	28,740	24,340	16,760

1/2 To 6 HP Indoor & Outdoor Condensing Units

HERMETIC COMPRESSORS Unit Specifications

Model	Fig. ++	Compressor	Connections (ID)		Receiver 90% Full Lbs.	Fan(s)	Dimensions			Net Wt. Lbs.	Sound Data dBA [†]
			Liquid	Suction			D (In.)	W (In.)	H (In.)		
MOH005D7	A	ART82C1	3/8	1/2	6.0	1	28-1/4	23-3/4	17-1/4	135	67
MOH008D7	A	RS64C2	3/8	1/2	6.0	1	28-1/4	23-3/4	17-1/4	141	68
MOH010D7	A	RS70C1	3/8	5/8	6.0	1	28-1/4	23-3/4	17-1/4	136	68
MOH015D7	B	CR18KQ	3/8	5/8	10.0	2	28-1/4	37-3/4	17-1/4	189	71
MOH020D7	B	CR24KQ	3/8	7/8	10.0	2	28-1/4	37-3/4	17-1/4	193	72
MOH029M2	C	CR37KQ	1/2	7/8	16.0	2	28-1/4	37-3/4	19-1/4	214	72
MOH030D7	D	CR37KQ	1/2	7/8	22.0	1	30-1/4	42-1/2	29-3/4	281	73
MOH040D7	D	CR53KQ	1/2	1-1/8	22.0	1	30-1/4	42-1/2	29-3/4	299	73
MOH050D7	D	CRN-0500	1/2	1-1/8	22.0	1	30-1/4	42-1/2	29-3/4	310	75
MOH005X6	A	RST45C1E	3/8	1/2	5.5	1	28-1/4	23-3/4	17-1/2	135	68
MOH008X6	A	RST55C1E	3/8	1/2	5.5	1	28-1/4	23-3/4	17-1/2	135	68
MOH009X6	A	RST64C1E	3/8	1/2	5.5	1	28-1/4	23-3/4	17-1/2	144	68
MOH010X6	A	RS70C1E	3/8	5/8	5.5	1	28-1/4	23-3/4	17-1/4	138	68
MOH015X6	B	CS10K6E	3/8	5/8	9.0	2	28-1/4	37-3/4	17-1/4	193	71
MOH020X6	B	CS12K6E	3/8	7/8	9.0	2	28-1/4	37-3/4	17-1/4	203	73
MOH025X6	B	CS14K6E	3/8	7/8	9.0	2	28-1/4	37-3/4	17-1/4	208	74
MOH030X6	D	CS18K6E	1/2	7/8	20.0	1	30-1/4	42-1/2	29-3/4	290	73
MOH032X6	D	CS20K6E	1/2	7/8	20.0	1	30-1/4	42-1/2	29-3/4	275	76
MOH040X6	D	CS27K6E	1/2	1-1/8	20.0	1	30-1/4	42-1/2	29-3/4	281	73
MOH050X6	D	CS33K6E	1/2	1-1/8	20.0	1	30-1/4	42-1/2	29-3/4	313	73
MOH011L6	A	CF04K6E	3/8	5/8	5.5	1	28-1/4	23-3/4	17-1/4	139	73
MOH014L6	A	CF06K6E	3/8	5/8	5.5	1	28-1/4	23-3/4	17-1/4	170	73
MOH019L6	B	CF06K6E	3/8	5/8	9.0	2	28-1/4	37-3/4	17-1/4	200	69
MOH025L6	B	CF09K6E	3/8	7/8	9.0	2	28-1/4	37-3/4	17-1/4	222	76
MOH031L6	C	CF12K6E	1/2	7/8	14.0	2	28-1/4	37-3/4	19-3/4	223	77
MOH005D6	A	RST45C1E	3/8	1/2	5.5	1	28-1/4	23-3/4	17-1/4	135	68
MOH009D6	A	RST64C1E	3/8	5/8	5.5	1	28-1/4	23-3/4	17-1/4	144	68
MOH010D6	A	RS70C1E	3/8	5/8	5.5	1	28-1/4	23-3/4	17-1/4	138	68
MOH015D6	B	CS10K6E	3/8	5/8	9.0	2	28-1/4	37-3/4	17-1/4	193	71
MOH025D6	B	CS14K6E	3/8	7/8	9.0	2	28-1/4	37-3/4	17-1/4	208	74
MOH032D6	D	CS20K6E	1/2	7/8	20.0	1	30-1/4	42-1/2	29-3/4	275	76
MOH040D6	D	CS27K6E	1/2	1-1/8	20.0	1	30-1/4	42-1/2	29-3/4	281	73
MOH050D6	D	CS33K6E	1/2	1-1/8	20.0	1	30-1/4	42-1/2	29-3/4	313	73

++ = See Dimensional Drawings for details

[†] = Estimated sound pressure values are 10 feet from the unit. For estimating sound pressure from the unit at different distances, deduct the following from the unit values: 20 feet, deduct 6 dBA for 40 feet, deduct 12 dBA for 80 feet, deduct 18 dBA. This data is typical of "free field" conditions for horizontal air cooled condensing units at the outlet of the discharge air. The actual sound measurements may vary depending on the condensing unit installation. Factors such as reflecting walls, background noise and mounting conditions may have a significant influence on this data.

Electrical Data

Model Number	Part Number	Power Supply			Compressor		Fan Motor			MCA		MOPD		Evap. Fan Amps	Defrost Heater Amps
		Volts	Ph	Hz [†]	RLA	LRA	Qty.	HP	FLA	Air	Elec.	Air	Elec.		
MOH005D72	ART82C1-CAV	208-230	1	60	5.9	30.0	1	1/15	0.5	15.0	20	15	20	8.0	15
MOH008D72	RS64C2-CAV	208-230	1	60	6.9	37.0	1	1/15	0.5	15.0	20	15	20	8.0	15
MOH010D72	RS70C1-PFV	208-230	1	60	6.3	34.2	1	1/15	0.5	15.0	20	15	20	7.0	15
MOH010D73	RS70C1-TFC	208-230	3	60	4.2	31.0	1	1/15	0.5	15.0	20	15	20	8.6	15
MOH015D72	CR18KQ-PFV	208-230	1	60	8.1	41.0	2	1/15	1.0	15.0	24	15	25	6.0	19
MOH015D73	CR18KQ-TF5	208-230	3	60	4.9	40.0	2	1/15	1.0	15.0	24	15	20	7.0	19
MOH015D74	CR18KQ-TFD	460	3	60	2.8	23.0	2	1/15	1.0	15.0	15	15	15	^	^
MOH020D72	CR24KQ-PFV	208-230	1	60	12.2	70.5	2	1/15	1.0	20.0	29	25	30	6.0	23
MOH020D73	CR24KQ-TF5	208-230	3	60	6.7	40.0	2	1/15	1.0	15.0	24	15	25	9.0	19
MOH020D74	CR24KQ-TFD	460	3	60	3.6	28.0	2	1/15	1.0	15.0	15	15	15	^	^
MOH029M22	CR37KQ-PFV	208-230	1	60	16.7	100.3	2	1/15	1.0	21.8	38	35	50	12.0	30
MOH029M23	CR37KQ-TF5	208-230	3	60	9.9	85.0	2	1/15	1.0	15.0	38	20	40	12.0	30
MOH029M24	CR37KQ-TFD	460	3	60	5.0	39.0	2	1/15	1.0	15.0	15	15	15	^	^
MOH030D72	CR37KQ-PFV	208-230	1	60	16.7	100.3	1	1/3	3.5	24.3	38	40	50	12.0	30
MOH030D73	CR37KQ-TF5	208-230	3	60	9.9	85.0	1	1/3	3.5	20.0	38	25	40	12.0	30
MOH030D74	CR37KQ-TFD	460	3	60	5.0	39.0	1	1/3	1.9	15.0	15	15	15	^	^

^ Power supplied by customer. [†] Consult factory for 50 HZ applications.

Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.

1/2 To 6 HP Indoor & Outdoor Condensing Units

HERMETIC COMPRESSORS Electrical Data

Model Number	Part Number	Power Supply			Compressor		Fan Motor			MCA		MOPD		Evap. Fan Amps	Defrost Heater Amps
		Volts	Ph	Hz [†]	RLA	LRA	Qty.	HP	FLA	Air	Elec.	Air	Elec.		
MOH040D72	CR53KQ-PFV	208-230	1	60	26.0	140.0	1	1/3	3.5	36.0	48.0	50	60	12.0	35
MOH040D73	CR53KQ-TF5	208-230	3	60	16.3	107.0	1	1/3	3.5	23.9	38.0	40	50	12.0	30
MOH040D74	CR53KQ-TFD	460	3	60	8.1	55.0	1	1/3	1.9	15.0	29.0	15	30	11.0	23
MOH050D72	CRN5-0500-PFV	208-230	1	60	30.8	142.0	1	1/3	3.5	42.0	59.0	50	60	12.0	47
MOH050D73	CRN5-0500-TF5	208-230	3	60	19.2	130.0	1	1/3	3.5	28.0	40.0	45	50	12.0	30
MOH050D74	CRN5-0500-TFD	460	3	60	8.7	65.0	1	1/3	1.9	15.0	29.0	20	30	10.0	23
MOH005X62	RST45C1E-CAV	208-230	1	60	4.6	26.5	1	1/15	0.5	15.0	20.0	15	20	8.0	15
MOH008X62	RST55C1E-CAV	208-230	1	60	6.1	33.7	1	1/15	0.5	15.0	20.0	15	20	8.0	15
MOH009X62	RST64C1E-CAV	208-230	1	60	8.0	43.0	1	1/15	0.5	15.0	20.0	15	20	6.0	15
MOH010X62	RS70C1E-PFV	208-230	1	60	6.3	34.2	1	1/15	0.5	15.0	20.0	15	20	7.0	15
MOH010X63	RS70C1E-TFC	208-230	3	60	4.2	31.0	1	1/15	0.5	15.0	20.0	15	20	8.6	15
MOH015X62	CS10K6E-PFV	208-230	1	60	9.8	56.0	2	1/15	1.0	15.0	24.0	20	25	6.0	19
MOH015X63	CS10K6E-TF5	208-230	3	60	6.7	51.0	2	1/15	1.0	15.0	20.0	15	20	7.0	15
MOH020X62	CS12K6E-PFV	208-230	1	60	9.8	56.0	2	1/15	1.0	15.0	24.0	20	25	6.0	19
MOH020X63	CS12K6E-TF5	208-230	3	60	6.7	51.0	2	1/15	1.0	15.0	24.0	15	25	9.0	19
MOH025X62	CS14K6E-PFV	208-230	1	60	11.2	61.0	2	1/15	1.0	15.0	29.0	25	30	6.0	23
MOH025X63	CS14K6E-TF5	208-230	3	60	8.2	55.0	2	1/15	1.0	15.0	24.0	15	25	9.0	19
MOH025X64	CS14K6E-TFD	460	3	60	4.2	28.0	2	1/15	1.0	15.0	15.0	15	15	^	^
MOH030X62	CS18K6E-PFV	208-230	1	60	14.4	82.0	1	1/3	3.5	21.0	38.0	35	45	12.0	30
MOH030X63	CS18K6E-TF5	208-230	3	60	9.4	65.5	1	1/3	3.5	15.0	29.0	20	30	7.0	23
MOH030X64	CS18K6E-TFD	460	3	60	3.9	33.0	1	1/3	1.9	15.0	15.0	15	15	^	^
MOH032X62	CS20K6E-PFV	208-230	1	60	16.7	96.0	1	1/3	3.5	24.0	38.0	40	50	12.0	30
MOH032X63	CS20K6E-TF5	208-230	3	60	10.3	75.0	1	1/3	3.5	20.0	29.0	25	30	7.0	23
MOH032X64	CS20K6E-TFD	460	3	60	4.6	40.0	1	1/3	1.9	15.0	15.0	15	15	^	^
MOH040X62	CS27K6E-PFV	208-230	1	60	21.5	121.0	1	1/3	3.5	30.3	44.0	50	60	12.0	35
MOH040X63	CS27K6E-TF5	208-230	3	60	13.7	105.0	1	1/3	3.5	20.7	38.0	30	45	12.0	30
MOH040X64	CS27K6E-TFD	460	3	60	7.6	52.0	1	1/3	1.9	15.0	29.0	15	30	11.0	23
MOH050X62	CS33K6E-PFV	208-230	1	60	27.6	125.0	1	1/3	3.5	38.0	59.0	50	60	12.0	47
MOH050X63	CS33K6E-TF5	208-230	3	60	16.8	102.0	1	1/3	3.5	24.5	38.0	40	50	12.0	30
MOH050X64	CS33K6E-TFD	460	3	60	8.8	48.0	1	1/3	1.9	15.0	29.0	20	30	10.0	23
MOH011L62	CF04K6E-PFV	208-230	1	60	8.6	59.2	1	1/15	0.5	15.0	20.0	15	25	7.0	15
MOH011L63	CF04K6E-TF5	200-230	3	60	3.9	52.0	1	1/15	0.5	15.0	20.0	15	20	8.0	15
MOH014L62	CF06K6E-PFV	208-230	1	60	10.3	59.2	1	1/15	0.5	15.0	20.0	20	25	4.0	15
MOH014L63	CF06K6E-TF5	200-230	3	60	6.3	52.0	1	1/15	0.5	15.0	24.0	15	25	9.0	19
MOH019L62	CF06K6E-PFV	208-230	1	60	10.3	59.2	2	1/15	1.0	15.0	24.0	20	30	6.0	19
MOH019L63	CF06K6E-TF5	208-230	3	60	6.3	52.0	2	1/15	1.0	15.0	24.0	15	25	9.0	19
MOH025L62	CF09K6E-PFV	208-230	1	60	15.0	87.0	2	1/15	1.0	20.0	29.0	30	40	6.0	23
MOH025L63	CF09K6E-TF5	200-230	3	60	9.2	72.2	2	1/15	1.0	15.0	21.0	20	25	7.0	15
MOH031L62	CF12K6E-PFV	208-230	1	60	17.0	105.0	2	1/15	1.0	22.3	37.5	35	50	12.0	30
MOH031L63	CF12K6E-TF5	200-230	3	60	10.7	85.0	2	1/15	1.0	15.0	28.8	25	30	7.0	23
MOH031L64	CF12K6E-TFD	460	3	60	5.3	42.0	2	1/15	1.0	15.0	15.0	15	15	^	^
MOH005D62	RST45C1E-CAV	208-230	1	60	4.5	26.5	1	1/15	0.5	15.0	-	15	-	-	-
MOH009D62	RST64C1E-CAV	208-230	1	60	7.6	43.0	1	1/15	0.5	15.0	-	15	-	-	-
MOH010D62	RS70C1E-PFV	208-230	1	60	6.9	34.2	1	1/15	0.5	15.0	-	15	-	-	-
MOH010D63	RS70C1E-TFC	208-230	3	60	4.7	31.0	1	1/15	0.5	15.0	-	15	-	-	-
MOH015D62	CS10K6E-PFV	208-230	1	60	11.1	56.0	2	1/15	1.0	15.0	-	25	-	-	-
MOH015D63	CS10K6E-TF5	208-230	3	60	7.2	51.0	2	1/15	1.0	15.0	-	15	-	-	-
MOH025D62	CS14K6E-PFV	208-230	1	60	12.4	61.0	2	1/15	1.0	20.0	-	25	-	-	-
MOH025D63	CS14K6E-TF5	208-230	3	60	8.5	55.0	2	1/15	1.0	15.0	-	20	-	-	-
MOH032D62	CS20K6E-PFV	208-230	1	60	17.9	96.0	1	1/3	3.5	25.9	-	40	-	-	-
MOH032D63	CS20K6E-TF5	208-230	3	60	13.3	75.0	1	1/3	3.5	20.2	-	30	-	-	-
MOH040D69	CS27K6E-PFV	230	1	60	23.7	121.0	1	1/3	3.5	33.1	-	50	-	-	-
MOH040D68	CS27K6E-TF5	230	3	60	14.1	105.0	1	1/3	3.5	21.1	-	35	-	-	-
MOH050D69	CS33K6E-PFV	230	1	60	30.1	125.0	1	1/3	3.5	41.2	-	60	-	-	-
MOH050D68	CS33K6E-TF5	230	3	60	16.5	102.0	1	1/3	3.5	24.2	-	40	-	-	-

^ Power supplied by customer. † Consult factory for 50 HZ applications.

Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.

1/2 To 6 HP Indoor & Outdoor Condensing Units

SCROLL COMPRESSORS

Performance Data - Medium Temperature (R-404A/507)

R-404A/507 Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature							
		40°F	35°F	30°F	25°F	20°F	10°F	0°F	-5°F
MOZ020M6	ZS15K4E	24,810	22,630	21,160	19,690	18,210	15,340	12,640	11,390
MOZ025M6	ZS19K4E	29,280	26,730	25,070	23,390	21,700	18,380	15,230	13,750
MOZ030M6	ZS21K4E	35,760	32,760	30,580	28,360	26,170	21,900	17,950	16,140
MOZ035M6	ZS26K4E	43,200	39,310	36,730	34,130	31,560	26,540	21,850	19,690
MOZ045M6	ZS30K4E	48,460	46,490	43,050	39,760	36,560	30,480	24,890	22,310
MOZ055M6	ZS38K4E	57,230	53,990	50,410	46,970	43,530	36,770	30,380	27,400
MOZ060M6	ZS45K4E	65,560	61,960	58,120	54,430	50,680	43,160	35,890	32,490

R-404A/507 Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature							
		40°F	35°F	30°F	25°F	20°F	10°F	0°F	-5°F
MOZ020M6	ZS15K4E	23,850	21,760	20,350	18,930	17,510	14,750	12,150	10,950
MOZ025M6	ZS19K4E	28,110	25,700	24,110	22,490	20,870	17,670	14,640	11,790
MOZ030M6	ZS21K4E	34,460	31,500	29,400	27,270	25,160	21,060	17,260	15,520
MOZ035M6	ZS26K4E	41,600	37,800	35,320	32,820	30,350	25,520	21,010	18,930
MOZ045M6	ZS30K4E	46,740	44,700	41,390	38,230	35,150	29,310	23,930	21,450
MOZ055M6	ZS38K4E	54,940	51,910	48,470	45,160	41,860	35,360	29,210	26,350
MOZ060M6	ZS45K4E	62,910	59,580	55,880	52,340	48,730	41,500	34,510	31,240

R-404A/507 Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature							
		40°F	35°F	30°F	25°F	20°F	10°F	0°F	-5°F
MOZ020M6	ZS15K4E	22,870	20,890	19,540	18,170	16,810	14,160	11,660	10,510
MOZ025M6	ZS19K4E	26,950	24,670	23,150	21,590	20,040	16,960	14,050	12,690
MOZ030M6	ZS21K4E	33,150	30,240	28,220	26,180	24,150	20,220	16,570	14,900
MOZ035M6	ZS26K4E	39,990	36,290	33,910	31,510	29,140	24,500	20,170	18,170
MOZ045M6	ZS30K4E	44,990	42,910	39,730	36,700	33,740	28,140	22,970	20,590
MOZ055M6	ZS38K4E	52,630	49,830	46,530	43,350	40,190	33,950	28,040	25,300
MOZ060M6	ZS45K4E	60,260	57,200	53,640	50,250	46,780	39,840	33,130	29,990

R-404A/507 Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature							
		40°F	35°F	30°F	25°F	20°F	10°F	0°F	-5°F
MOZ020M6	ZS15K4E	20,920	19,150	17,910	16,660	15,410	12,980	10,690	9,640
MOZ025M6	ZS19K4E	24,600	22,620	21,220	19,760	18,370	15,550	14,190	11,630
MOZ030M6	ZS21K4E	30,500	27,720	25,870	24,000	22,140	18,530	15,190	13,660
MOZ035M6	ZS26K4E	36,690	33,260	31,080	28,880	26,710	22,460	18,490	16,660
MOZ045M6	ZS30K4E	41,430	39,340	36,420	33,640	30,930	25,790	21,060	18,880
MOZ055M6	ZS38K4E	47,970	45,680	42,650	39,740	36,840	31,120	25,700	23,190
MOZ060M6	ZS45K4E	-	-	49,170	46,060	42,880	36,520	30,370	27,490

1/2 To 6 HP Indoor & Outdoor Condensing Units

SCROLL COMPRESSORS

Performance Data - Low Temperature (R-404A/507)

R-404A/507 Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature						
		0°F	-10°F	-15°F	-20°F	-25°F	-30°F	-40°F
MOZ020L6	ZF06K4E	11,970	9,920	8,940	8,010	7,130	6,310	4,900
MOZ025L6	ZF08K4E	14,880	12,320	11,120	9,960	8,890	7,900	6,230
MOZ030L6	ZF09K4E	16,540	13,730	12,400	11,130	9,930	8,840	6,980
MOZ035L6	ZF11K4E	19,800	16,490	14,910	13,420	12,000	10,710	8,530
MOZ045L6	ZF13K4E	24,720	20,360	18,300	16,410	14,570	12,840	9,800
MOZ055L6	ZF15K4E	29,950	24,730	22,260	20,010	17,820	15,800	12,440
MOZ060L6	ZF18K4E	36,360	30,140	27,160	24,330	21,680	19,240	15,100

R-404A/507 Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature						
		0°F	-10°F	-15°F	-20°F	-25°F	-30°F	-40°F
MOZ020L6	ZF06K4E	11,510	9,540	8,600	7,700	6,860	6,070	4,710
MOZ025L6	ZF08K4E	14,310	11,850	10,690	9,580	8,550	7,600	5,990
MOZ030L6	ZF09K4E	15,900	13,200	11,920	10,700	9,550	8,500	6,710
MOZ035L6	ZF11K4E	19,040	15,860	14,340	12,900	11,540	10,300	8,200
MOZ045L6	ZF13K4E	23,740	19,490	17,590	15,690	13,880	12,210	9,360
MOZ055L6	ZF15K4E	28,870	23,820	21,550	19,260	17,390	15,160	11,910
MOZ060L6	ZF18K4E	34,960	28,970	26,120	23,390	20,850	18,500	14,520

R-404A/507 Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature						
		0°F	-10°F	-15°F	-20°F	-25°F	-30°F	-40°F
MOZ020L6	ZF06K4E	11,050	9,160	8,260	7,390	6,590	5,830	4,520
MOZ025L6	ZF08K4E	13,740	11,380	10,260	9,200	8,210	7,300	5,750
MOZ030L6	ZF09K4E	15,260	12,670	11,440	10,270	9,170	8,160	6,440
MOZ035L6	ZF11K4E	18,280	15,230	13,770	12,380	11,080	9,890	7,870
MOZ045L6	ZF13K4E	22,780	18,740	16,770	14,910	13,180	11,780	8,890
MOZ055L6	ZF15K4E	27,800	23,060	20,700	18,490	16,980	14,770	11,390
MOZ060L6	ZF18K4E	33,560	27,810	25,080	22,450	20,010	17,760	13,950

R-404A/507 Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature						
		0°F	-10°F	-15°F	-20°F	-25°F	-30°F	-40°F
MOZ020L6	ZF06K4E	10,130	8,400	7,570	6,780	6,040	5,340	4,140
MOZ025L6	ZF08K4E	12,590	10,430	9,410	8,430	7,520	6,690	5,270
MOZ030L6	ZF09K4E	13,990	11,620	10,490	9,420	8,400	7,480	5,900
MOZ035L6	ZF11K4E	16,760	13,960	12,620	11,350	10,160	9,060	7,220
MOZ045L6	ZF13K4E	20,980	16,960	15,120	13,390	11,790	10,910	8,460
MOZ055L6	ZF15K4E	25,790	21,200	19,030	16,980	15,100	14,000	10,340
MOZ060L6	ZF18K4E	30,770	25,490	22,990	20,580	18,340	16,270	12,780

NOTE: The ZF compressor comes with liquid injection.

1/2 To 6 HP Indoor & Outdoor Condensing Units

SCROLL COMPRESSORS

Performance Data - Medium Temperature (R-22)

R-22 Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature				
		35°F	30°F	25°F	20°F	10°F
MOZ020M6	ZS15K4E	22,080	20,420	18,800	17,220	14,260
MOZ025M6	ZS19K4E	26,080	24,190	22,340	20,530	17,090
MOZ030M6	ZS21K4E	31,970	29,490	27,080	24,750	20,360
MOZ035M6	ZS26K4E	38,930	35,820	32,830	29,970	24,520
MOZ045M6	ZS30K4E	45,920	42,010	38,300	34,810	28,450
MOZ055M6	ZS38K4E	54,050	49,950	45,960	42,100	34,600
MOZ060M6	ZS45K4E	63,670	58,960	54,320	49,800	41,190

R-22 Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature				
		35°F	30°F	25°F	20°F	10°F
MOZ020M6	ZS15K4E	21,230	19,630	18,080	16,560	13,710
MOZ025M6	ZS19K4E	25,080	23,260	21,480	19,740	16,430
MOZ030M6	ZS21K4E	30,740	28,360	26,040	23,800	19,580
MOZ035M6	ZS26K4E	37,430	34,440	31,570	28,820	23,580
MOZ045M6	ZS30K4E	44,150	40,390	36,830	33,470	27,360
MOZ055M6	ZS38K4E	51,970	48,030	44,190	40,480	33,270
MOZ060M6	ZS45K4E	61,220	56,690	52,230	47,880	39,610

R-22 Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature				
		35°F	30°F	25°F	20°F	10°F
MOZ020M6	ZS15K4E	20,380	18,850	17,360	15,900	13,160
MOZ025M6	ZS19K4E	24,080	22,330	20,620	18,950	15,770
MOZ030M6	ZS21K4E	29,510	27,230	25,000	22,850	18,800
MOZ035M6	ZS26K4E	35,930	33,060	30,310	27,670	22,640
MOZ045M6	ZS30K4E	42,380	38,770	35,360	32,130	26,270
MOZ055M6	ZS38K4E	49,890	46,110	42,420	38,860	31,940
MOZ060M6	ZS45K4E	58,770	54,420	50,140	45,970	38,030

R-22 Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature				
		35°F	30°F	25°F	20°F	10°F
MOZ020M6	ZS15K4E	19,530	18,060	16,630	15,240	12,610
MOZ025M6	ZS19K4E	23,070	21,400	19,760	18,160	15,120
MOZ030M6	ZS21K4E	28,280	26,090	23,960	21,900	18,010
MOZ035M6	ZS26K4E	34,440	31,690	29,040	26,510	21,690
MOZ045M6	ZS30K4E	40,620	37,160	33,880	30,790	25,170
MOZ055M6	ZS38K4E	47,810	44,190	40,660	37,240	30,610
MOZ060M6	ZS45K4E	56,320	52,160	48,050	44,050	36,440

1/2 To 6 HP Indoor & Outdoor Condensing Units

SCROLL COMPRESSORS

Performance Data - Low Temperature (R-22)

R-22 Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature						
		0°F	-10°F	-15°F	-20°F	-25°F	-30°F	-40°F
MOZ020L6	ZF06K4E	11,610	9,400	8,380	7,450	6,590	5,840	4,590
MOZ025L6	ZF08K4E	14,560	11,800	10,540	9,380	8,310	7,340	5,780
MOZ030L6	ZF09K4E	15,940	13,070	11,750	10,500	9,340	8,260	6,460
MOZ035L6	ZF11K4E	19,310	15,870	14,270	12,760	11,360	10,080	7,900
MOZ045L6	ZF13K4E	23,490	19,140	17,140	15,280	13,560	12,000	9,400
MOZ055L6	ZF15K4E	28,800	23,490	21,050	18,770	16,360	14,750	11,550
MOZ060L6	ZF18K4E	33,800	27,550	24,670	21,970	19,480	17,220	13,440

R-22 Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature						
		0°F	-10°F	-15°F	-20°F	-25°F	-30°F	-40°F
MOZ020L6	ZF06K4E	11,060	8,950	7,980	7,090	6,280	5,560	4,370
MOZ025L6	ZF08K4E	13,870	11,240	10,040	8,930	7,910	6,990	5,500
MOZ030L6	ZF09K4E	15,180	12,450	11,190	10,000	8,890	7,870	6,150
MOZ035L6	ZF11K4E	18,390	15,110	13,590	12,150	10,820	9,600	7,520
MOZ045L6	ZF13K4E	22,370	18,230	16,320	14,550	12,910	11,430	8,950
MOZ055L6	ZF15K4E	27,430	22,370	20,050	17,880	15,580	14,050	11,000
MOZ060L6	ZF18K4E	32,190	26,240	23,490	20,920	18,550	16,400	12,800

R-22 Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature						
		0°F	-10°F	-15°F	-20°F	-25°F	-30°F	-40°F
MOZ020L6	ZF06K4E	10,840	8,770	7,820	6,950	6,150	5,450	4,280
MOZ025L6	ZF08K4E	13,590	11,020	9,840	8,750	7,750	6,850	5,390
MOZ030L6	ZF09K4E	14,880	12,200	10,970	9,800	8,710	7,710	6,030
MOZ035L6	ZF11K4E	18,020	14,810	13,320	11,910	10,600	9,410	7,370
MOZ045L6	ZF13K4E	21,920	17,870	15,990	14,260	12,650	11,200	8,770
MOZ055L6	ZF15K4E	26,880	21,920	19,650	17,520	15,270	13,770	10,780
MOZ060L6	ZF18K4E	31,550	25,720	23,020	20,500	18,180	16,070	12,540

R-22 Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature						
		0°F	-10°F	-15°F	-20°F	-25°F	-30°F	-40°F
MOZ020L6	ZF06K4E	10,290	8,320	7,420	6,590	5,840	5,170	4,060
MOZ025L6	ZF08K4E	12,900	10,450	9,340	8,310	7,360	6,500	5,120
MOZ030L6	ZF09K4E	14,120	11,580	10,410	9,300	8,270	7,320	5,720
MOZ035L6	ZF11K4E	17,100	14,050	12,640	11,300	10,060	8,930	6,990
MOZ045L6	ZF13K4E	20,800	16,950	15,180	13,530	12,010	10,630	8,320
MOZ055L6	ZF15K4E	25,510	20,800	18,650	16,630	14,490	13,070	10,230
MOZ060L6	ZF18K4E	29,940	24,400	21,850	19,460	17,250	15,250	11,900

NOTE: The ZF compressor comes with liquid injection.

1/2 To 6 HP Indoor & Outdoor Condensing Units

SCROLL COMPRESSORS Unit Specifications

Model	Fig. ++	Compressor	Connections (ID)		Receiver 90% Full Lbs.	Fan(s)	Dimensions			Net Wt. Lbs.	Sound Data dBA [†]
			Liquid	Suction			D (In.)	W (In.)	H (In.)		
MOZ020M6	C	ZS15K4E	1/2	7/8	14	2	28-1/4	37-3/4	19-3/4	209	71
MOZ025M6	C	ZS19K4E	1/2	7/8	14	2	28-1/4	37-3/4	19-3/4	218	73
MOZ030M6	D	ZS21K4E	1/2	7/8	20	1	30-1/4	42-1/2	29-3/4	287	72
MOZ035M6	D	ZS26K4E	1/2	7/8	20	1	30-1/4	42-1/2	29-3/4	290	74
MOZ045M6	D	ZS30K4E	1/2	1-1/8	20	1	30-1/4	42-1/2	29-3/4	317	73
MOZ055M6	D	ZS38K4E	1/2	1-1/8	20	1	30-1/4	42-1/2	29-3/4	317	74
MOZ060M6	D	ZS45K43	1/2	1-1/8	20	1	30-1/4	42-1/2	29-3/4	317	76
MOZ020L6	C	ZF06K4E	1/2	7/8	14	2	28-1/4	37-3/4	19-3/4	209	71
MOZ025L6	C	ZF08K4E	1/2	7/8	14	2	28-1/4	37-3/4	19-3/4	218	73
MOZ030L6	C	ZF09K4E	1/2	7/8	14	2	28-1/4	37-3/4	19-3/4	218	71
MOZ035L6	C	ZF11K4E	1/2	7/8	14	2	28-1/4	37-3/4	19-3/4	217	73
MOZ045L6	D	ZF13K4E	1/2	1-1/8	20	1	30-1/4	42-1/2	29-3/4	307	73
MOZ055L6	D	ZF15K4E	1/2	1-1/8	20	1	30-1/4	42-1/2	29-3/4	313	74
MOZ060L6	D	ZF18K4E	1/2	1-1/8	20	1	30-1/4	42-1/2	29-3/4	317	76

++ = See Dimensional Drawings for details. † = Estimated sound pressure values are 10 feet from the unit. For estimating sound pressure from the unit at different distances, deduct the following from the unit values: 20 feet, deduct 6 dBA for 40 feet, deduct 12 dBA for 80 feet, deduct 18 dBA. This data is typical of "free field" conditions for horizontal air cooled condensing units at the outlet of the discharge air. The actual sound measurements may vary depending on the condensing unit installation. Factors such as reflecting walls, background noise and mounting conditions may have a significant influence on this data.

SCROLL COMPRESSORS - Electrical Data

Model Number	Part Number	Power Supply			Compressor		Fan Motor			MCA		MOPD		Evap. Fan Amps	Defrost Heater Amps
		Volts	Ph	Hz [†]	RLA	LRA	Qty.	HP	FLA	Air	Elec.	Air	Elec.		
MOZ020M62	ZS15K4E-PFV	208-230	1	60	14.1	68.0	2	1/15	1.0	20	38	30	40	12.0	30
MOZ020M63	ZS15K4E-TF5	208-230	3	60	9.6	58.0	2	1/15	1.0	15	24	20	30	9.0	19
MOZ020M64	ZS15K4E-TFD	460	3	60	4.8	29.0	2	1/15	1.0	15	15	15	15	^	^
MOZ025M62	ZS19K4E-PFV	208-230	1	60	16.2	75.0	2	1/15	1.0	21	38	35	45	12.0	30
MOZ025M63	ZS19K4E-TF5	208-230	3	60	12.3	73.0	2	1/15	1.0	20	29	25	35	11.0	23
MOZ025M64	ZS19K4E-TFD	460	3	60	5.8	38.0	2	1/15	1.0	15	15	15	15	^	^
MOZ030M62	ZS21K4E-PFV	208-230	1	60	20.8	112.0	1	1/3	3.5	30	42	50	60	12.0	30
MOZ030M63	ZS21K4E-TF5	208-230	3	60	13.7	93.0	1	1/3	3.5	21	38	30	45	12.0	30
MOZ030M64	ZS21K4E-TFD	460	3	60	6.2	48.0	1	1/3	1.9	15	15	15	15	^	^
MOZ035M62	ZS26K4E-PFV	208-230	1	60	21.2	104.0	1	1/3	3.5	30	42	45	60	12.0	30
MOZ035M63	ZS26K4E-TF5	208-230	3	60	13.9	93.0	1	1/3	3.5	21	38	30	45	12.0	30
MOZ035M64	ZS26K4E-TFD	460	3	60	6.2	48.0	1	1/3	1.9	15	15	15	15	^	^
MOZ045M62	ZS30K4E-PFV	208-230	1	60	23.4	137.0	1	1/3	3.5	33	59	50	60	11.0	47
MOZ045M63	ZS30K4E-TF5	208-230	3	60	18.4	114.0	1	1/3	3.5	27	44	40	50	12.0	35
MOZ045M64	ZS30K4E-TFD	460	3	60	8.4	58.0	1	1/3	1.9	15	29	20	35	11.0	23
MOZ055M62	ZS38K4E-PFV	208-230	1	60	28.8	169.0	1	1/3	3.5	40	59	50	60	12.0	47
MOZ055M63	ZS38K4E-TF5	208-230	3	60	19.2	123.0	1	1/3	3.5	28	44	45	50	12.0	35
MOZ055M64	ZS38K4E-TFD	460	3	60	8.7	62.0	1	1/3	1.9	15	29	20	30	10.0	23
MOZ060M63	ZS45K4E-TF5	208-230	3	60	21.5	156.0	1	1/3	3.5	30	44	50	60	12.0	35
MOZ060M64	ZS45K4E-TFD	460	3	60	8.3	70.0	1	1/3	1.9	15	29	20	30	10.6	23
MOZ020L62	ZF06K4E-PFV	208-230	1	60	12.2	61.0	2	1/15	1.0	20	38	25	40	12.0	30
MOZ020L63	ZF06K4E-TF5	208-230	3	60	8.3	55.0	2	1/15	1.0	15	24	15	25	9.0	19
MOZ020L64	ZF06K4E-TFD	460	3	60	3.8	27.0	2	1/15	1.0	15	15	15	15	^	^
MOZ025L62	ZF08K4E-PFV	208-230	1	60	14.7	73.0	2	1/15	1.0	20	38	30	45	12.0	30
MOZ025L63	ZF08K4E-TF5	208-230	3	60	8.7	63.0	2	1/15	1.0	15	29	20	30	11.0	23
MOZ025L64	ZF08K4E-TFD	460	3	60	4.5	31.0	2	1/15	1.0	15	15	15	15	^	^
MOZ030L62	ZF09K4E-PFV	208-230	1	60	14.7	88.0	2	1/15	1.0	20	38	30	45	12.0	30
MOZ030L63	ZF09K4E-TF5	208-230	3	60	9.9	77.0	2	1/15	1.0	15	24	20	25	6.0	19
MOZ030L64	ZF09K4E-TFD	460	3	60	5.1	39.0	2	1/15	1.0	15	15	15	15	^	^
MOZ035L62	ZF11K4E-PFV	208-230	1	60	18.6	109.0	2	1/15	1.0	24	38	40	50	12.0	30
MOZ035L63	ZF11K4E-TF5	208-230	3	60	10.9	88.0	2	1/15	1.0	15	29	25	30	6.0	23
MOZ035L64	ZF11K4E-TFD	460	3	60	6.4	44.0	2	1/15	1.0	15	15	15	15	^	^
MOZ045L62	ZF13K4E-PFV	208-230	1	60	24.0	129.0	1	1/3	3.5	34	45	50	60	11.0	30
MOZ045L63	ZF13K4E-TF5	208-230	3	60	13.5	99.0	1	1/3	3.5	20	38	30	40	11.0	30
MOZ045L64	ZF13K4E-TFD	460	3	60	7.4	49.5	1	1/3	1.9	15	24	15	25	9.0	19
MOZ055L62	ZF15K4E-PFV	208-230	1	60	28.8	169.0	1	1/3	3.5	40	50	50	60	10.0	30
MOZ055L63	ZF15K4E-TF5	208-230	3	60	17.0	123.0	1	1/3	3.5	24.8	37.5	40	50	10.0	30
MOZ055L64	ZF15K4E-TFD	460	3	60	8.7	62.0	1	1/3	1.9	15	24	20	25	8.0	19
MOZ060L63	ZF18K4E-TF5	208-230	3	60	19.6	156.0	1	1/3	3.5	28	44	45	50	12.0	35
MOZ060L64	ZF18K4E-TFD	460	3	60	8.3	70.0	1	1/3	1.9	15	29	20	30	11.0	23

Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.

^ Power supplied by customer.

† Consult factory for 50 HZ applications.

1/2 To 6 HP Indoor & Outdoor Condensing Units

SEMI-HERMETIC COMPRESSORS

Performance Data - Medium Temperature (R-404A/507)

R-404A/507 Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature						
		25°F	20°F	15°F	10°F	5°F	0°F	-5°F
MOS010M6	KAR-010E	9,680	8,730	7,930	7,260	6,500	5,890	5,000
MOS020M6	KAK-020E	16,890	15,110	13,590	12,260	11,070	9,940	8,690
MOS021M6	ERC-021E	19,930	17,400	15,800	14,300	12,800	11,840	10,220
MOS030M6	ERF-031E	30,880	28,310	25,730	23,180	20,690	18,260	15,950

R-404A/507 Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature						
		25°F	20°F	15°F	10°F	5°F	0°F	-5°F
MOS010M6	KAR-010E	9,140	8,300	7,600	6,870	6,150	5,550	4,730
MOS020M6	KAK-020E	16,240	14,530	13,070	11,790	10,640	9,560	8,360
MOS021M6	ERC-021E	18,850	16,500	14,900	13,500	12,700	11,140	9,580
MOS030M6	ERF-031E	29,690	27,220	24,740	22,290	19,890	17,560	15,340

R-404A/507 Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature						
		25°F	20°F	15°F	10°F	5°F	0°F	-5°F
MOS010M6	KAR-010E	8,680	7,950	7,110	6,410	5,780	5,220	4,450
MOS020M6	KAK-020E	15,590	13,950	12,550	11,320	10,210	9,180	8,030
MOS021M6	ERC-021E	17,840	16,280	14,870	13,440	11,970	10,450	8,940
MOS030M6	ERF-031E	28,500	26,130	23,750	21,400	19,090	16,860	14,730

R-404A/507 Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature						
		25°F	20°F	15°F	10°F	5°F	0°F	-5°F
MOS010M6	KAR-010E	7,740	7,000	6,350	5,720	5,120	4,600	3,900
MOS020M6	KAK-020E	14,290	12,790	11,500	10,380	9,360	8,410	7,360
MOS021M6	ERC-021E	15,840	14,610	12,600	11,850	10,470	9,180	7,770
MOS030M6	ERF-031E	26,130	23,950	21,770	19,620	17,500	15,450	13,500

1/2 To 6 HP Indoor & Outdoor Condensing Units

SEMI-HERMETIC COMPRESSORS

Performance Data - Low Temperature (R-404A/507)

R-404A/507 Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature						
		0°F	-5°F	-10°F	-20°F	-25°F	-30°F	-40°F
MOS005L6	KAN-005E	3,530	3,150	2,760	2,050	1,720	1,420	930
MOS008L6	KAM-007E	6,010	5,360	4,730	3,570	3,050	2,580	1,820
MOS010L6	KAJ-010E	7,770	6,990	6,240	4,830	4,190	3,610	2,640
MOS015L6	KAL-015E	11,780	10,600	9,470	7,340	6,370	5,500	4,020
MOS020L6	EAD-020E	13,780	12,290	10,860	8,260	7,120	6,100	4,470
MOS021L6	EAV-021E	15,120	13,660	12,200	9,420	8,140	6,980	5,160
MOS030L6	LAH-032E	22,600	20,320	18,090	13,810	11,830	9,970	6,780
MOS030E6	LAC-032E	-	-	-	16,780	14,570	12,540	9,010

R-404A/507 Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature						
		0°F	-5°F	-10°F	-20°F	-25°F	-30°F	-40°F
MOS005L6	KAN-005E	3,310	2,940	2,580	1,900	1,580	1,300	830
MOS008L6	KAM-007E	5,520	4,900	4,320	3,280	2,810	2,390	1,620
MOS010L6	KAJ-010E	7,220	6,480	5,790	4,520	3,940	3,390	2,440
MOS015L6	KAL-015E	10,960	9,930	8,920	6,990	6,110	5,300	3,930
MOS020L6	EAD-020E	12,530	11,160	9,870	7,520	6,490	5,560	3,980
MOS021L6	EAV-021E	13,920	12,600	11,280	8,780	7,610	6,520	4,590
MOS030L6	LAH-032E	21,310	19,100	16,930	12,800	10,880	9,100	6,040
MOS030E6	LAC-032E	-	-	-	15,700	13,550	11,580	8,270

R-404A/507 Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature						
		0°F	-5°F	-10°F	-20°F	-25°F	-30°F	-40°F
MOS005L6	KAN-005E	3,100	2,760	2,400	1,750	1,450	1,170	750
MOS008L6	KAM-007E	5,290	4,680	4,100	3,020	2,540	2,100	1,400
MOS010L6	KAJ-010E	6,900	6,180	5,470	4,160	3,570	3,030	2,150
MOS015L6	KAL-015E	10,520	9,460	8,410	6,440	5,540	4,700	3,300
MOS020L6	EAD-020E	12,140	10,730	9,400	6,970	5,920	4,980	3,530
MOS021L6	EAV-021E	13,390	12,110	10,810	8,260	7,060	5,940	4,050
MOS030L6	LAH-032E	20,020	17,890	15,790	11,790	9,940	8,230	5,300
MOS030E6	LAC-032E	-	-	-	14,630	12,530	10,640	7,540

R-404A/507 Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature						
		0°F	-5°F	-10°F	-20°F	-25°F	-30°F	-40°F
MOS005L6	KAN-005E	2,680	2,360	2,030	1,440	1,160	900	520
MOS008L6	KAM-007E	4,560	4,010	3,470	2,480	2,030	1,620	970
MOS010L6	KAJ-010E	6,040	5,370	4,720	3,510	2,960	2,470	1,660
MOS015L6	KAL-015E	9,290	8,320	7,370	5,560	4,710	3,930	2,580
MOS020L6	EAD-020E	10,510	9,210	7,950	6,000	4,720	3,880	2,610
MOS021L6	EAV-021E	11,670	10,570	9,450	7,130	5,990	4,900	2,950
MOS030L6	LAH-032E	17,480	15,490	13,530	9,800	8,080	6,490	3,750
MOS030E6	LAC-032E	-	-	-	12,510	10,510	8,760	6,090

^ NRD1-040E Compressor is Single Phase & uses R-404A only.

^^ Uses R-404A & 507 in 3 phase model.

1/2 To 6 HP Indoor & Outdoor Condensing Units

SEMI-HERMETIC COMPRESSORS

Performance Data - Medium and High Temperature (R-22)

R-22 Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature					
		40°F	30°F	25°F	20°F	10°F	0°F
MOS008H2	KAN-0075	9,110	7,630	6,900	6,230	4,640	-
MOS008M2	KAE-0075	-	-	7,850	7,110	5,770	4,420
MOS010H2	KAR-0100	12,910	10,670	9,630	8,630	6,830	-
MOS010M2	KAM-0100	-	-	9,920	8,950	7,110	5,370
MOS015H2	KAG-0150	16,990	13,880	12,720	11,440	9,120	-
MOS020H2	ERA-0200	22,270	16,800	14,500	12,300	7,970	-
MOS020M2	KAK-0200	-	-	17,190	15,510	12,450	9,880
MOS021M2	ERC-0200	-	-	18,350	16,650	13,520	10,850
MOS029M2	ERF-0310	-	-	25,570	23,190	18,860	15,330
MOS030H2	ERF-0310	37,070	30,820	27,870	25,100	20,160	-

R-22 Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature					
		40°F	30°F	25°F	20°F	10°F	0°F
MOS008H2	KAN-0075	8,840	7,310	6,630	5,990	4,430	-
MOS008M2	KAE-0075	-	-	7,510	6,780	5,510	4,250
MOS010H2	KAR-0100	12,410	10,260	9,260	8,300	6,570	-
MOS010M2	KAM-0100	-	-	9,580	8,630	6,840	5,140
MOS015H2	KAG-0150	16,340	13,350	12,230	11,000	8,770	-
MOS020H2	ERA-0200	21,310	15,900	13,700	11,500	7,220	-
MOS020M2	KAK-0200	-	-	16,530	14,910	11,970	9,500
MOS021M2	ERC-0200	-	-	17,640	16,010	13,000	10,430
MOS029M2	ERF-0310	-	-	24,720	22,400	18,200	14,760
MOS030H2	ERF-0310	35,640	29,630	26,800	24,130	19,380	-

R-22 Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature					
		40°F	30°F	25°F	20°F	10°F	0°F
MOS008H2	KAN-0075	8,520	7,030	6,370	5,750	4,230	-
MOS008M2	KAE-0075	-	-	7,190	6,470	5,250	4,270
MOS010H2	KAR-0100	11,910	9,850	8,890	7,970	6,310	-
MOS010M2	KAM-0100	-	-	9,240	8,310	6,570	4,910
MOS015H2	KAG-0150	15,690	12,820	11,740	10,560	8,420	-
MOS020H2	ERA-0200	19,300	15,000	12,900	10,800	6,540	-
MOS020M2	KAK-0200	-	-	15,870	14,310	11,490	9,120
MOS021M2	ERC-0200	-	-	16,930	15,370	12,480	10,010
MOS029M2	ERF-0310	-	-	23,850	21,610	17,530	14,200
MOS030H2	ERF-0310	34,210	28,450	25,720	23,160	18,600	-

R-22 Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature					
		40°F	30°F	25°F	20°F	10°F	0°F
MOS008H2	KAN-0075	7,860	6,470	5,860	5,280	3,840	-
MOS008M2	KAE-0075	-	-	6,480	5,860	4,760	3,840
MOS010H2	KAR-0100	10,920	9,030	8,150	7,300	5,780	-
MOS010M2	KAM-0100	-	-	8,530	7,670	6,030	4,430
MOS015H2	KAG-0150	14,380	11,750	10,760	9,680	7,720	-
MOS020H2	ERA-0200	17,200	13,400	11,500	9,540	5,510	-
MOS020M2	KAK-0200	-	-	14,550	13,120	10,530	8,360
MOS021M2	ERC-0200	-	-	15,520	14,090	11,440	9,180
MOS029M2	ERF-0310	-	-	22,150	20,040	16,210	13,080
MOS030H2	ERF-0310	31,370	26,070	23,580	21,240	17,050	-

1/2 To 6 HP Indoor & Outdoor Condensing Units

SEMI-HERMETIC COMPRESSORS Unit Specifications

Model	Fig. ++	Compressor	Connections (ID)		Receiver 90% Full Lbs.	Fan(s)	Dimensions			Net Wt. Lbs.	Sound Data dBA [†]
			Liquid	Suction			D (In.)	W (In.)	H (In.)		
MOS008H2	A	KAN-0075	3/8	5/8	6.0	1	28-1/4	23-3/4	17-1/4	180	66
MOS008M2	A	KAE-0075	3/8	5/8	6.0	1	28-1/4	23-3/4	17-1/4	180	66
MOS010H2	A	KAR-0100	3/8	5/8	6.0	1	28-1/4	23-3/4	17-1/4	175	66
MOS010M2	A	KAM-0100	3/8	5/8	6.0	1	28-1/4	23-3/4	17-1/4	178	66
MOS015H2	B	KAG-0150	3/8	7/8	10.0	2	28-1/4	37-3/4	17-1/4	221	69
MOS020H2	B	ERA-0200	3/8	7/8	10.0	2	28-1/4	37-3/4	17-1/4	293	69
MOS020M2	B	KAK-0200	3/8	7/8	10.0	2	28-1/4	37-3/4	17-1/4	189	69
MOS021M2	B	ERC-0200	3/8	7/8	10.0	2	28-1/4	37-3/4	17-1/4	301	69
MOS029M2	C	ERF-0310	1/2	7/8	16.0	2	28-1/4	37-3/4	19-3/4	391	69
MOS030H2	D	ERF-0310	1/2	7/8	22.0	1	30-1/4	42-1/2	29-3/4	385	70
MOS010M6	A	KAR-010E	3/8	5/8	5.5	1	28-1/4	23-3/4	17-1/4	178	67
MOS020M6	B	KAK-020E	3/8	7/8	9.0	2	28-1/4	37-3/4	17-1/4	189	69
MOS021M6	B	ERC-021E	3/8	7/8	9.0	2	28-1/4	37-3/4	17-1/4	301	70
MOS030M6	D	ERF-031E	1/2	7/8	20.0	1	30-1/4	42-1/2	29-3/4	397	71
MOS005L6	A	KAN-005E	3/8	1/2	5.5	1	28-1/4	23-3/4	17-1/4	172	67
MOS008L6	A	KAM-007E	3/8	5/8	5.5	1	28-1/4	23-3/4	17-1/4	172	67
MOS010L6	A	KAJ-010E	3/8	5/8	5.5	1	28-1/4	23-3/4	17-1/4	178	67
MOS015L6	B	KAL-015E	3/8	7/8	9.0	2	28-1/4	37-3/4	17-1/4	225	69
MOS020L6	B	EAD-020E	3/8	7/8	9.0	2	28-1/4	37-3/4	17-1/4	291	70
MOS021L6	B	EAV-021E	3/8	7/8	9.0	2	28-1/4	37-3/4	17-1/4	301	70
MOS030L6	C	LAH-032E	1/2	7/8	14.0	2	28-1/4	37-3/4	19-3/4	357	71
MOS030E6	C	LAC-032E	1/2	7/8	14.0	2	28-1/4	37-3/4	19-3/4	391	71

++ = See Dimensional Drawings for details.

[†] = Estimated sound pressure values are 10 feet from the unit. For estimating sound pressure from the unit at different distances, deduct the following from the unit values: 20 feet, deduct 6 dBA for 40 feet, deduct 12 dBA for 80 feet, deduct 18 dBA. This data is typical of "free field" conditions for horizontal air cooled condensing units at the outlet of the discharge air. The actual sound measurements may vary depending on the condensing unit installation. Factors such as reflecting walls, background noise and mounting conditions may have a significant influence on this data.

1/2 To 6 HP Indoor & Outdoor Condensing Units

SEMI-HERMETIC COMPRESSORS Electrical Data - Medium and High Temperature

Model Number	Part Number	Power Supply			Compressor		Fan Motor			MCA		MOPD		Evap. Fan Amps	Defrost Heater Amps
		Volts	Ph	Hz [†]	RLA	LRA	Qty.	HP	FLA	Air	Elec.	Air	Elec.		
MOS008H22	KAN2-0075-CAV	208-230	1	60	5.4	36.0	1	1/15	0.5	15	20	15	20	8	15
MOS008H23	KAN1-0075-TAC	208-230	3	60	3.1	19.9	1	1/15	0.5	15	20	15	20	9	15
MOS008M22	KAE2-0075-CAV	208-230	1	60	4.9	36.0	1	1/15	0.5	15	20	15	20	8	15
MOS008M23	KAE1-0075-TAC	208-230	3	60	3.0	19.9	1	1/15	0.5	15	20	15	20	9	15
MOS010H22	KAR2-0100-CAV	208-230	1	60	6.6	40.0	1	1/15	0.5	15	20	15	20	7	15
MOS010H23	KAR1-0100-TAC	208-230	3	60	3.8	27.0	1	1/15	0.5	15	20	15	20	9	15
MOS010M22	KAM2-0100-CAV	208-230	1	60	6.7	40.0	1	1/15	0.5	15	20	15	20	7	15
MOS010M23	KAM1-0100-TAC	208-230	3	60	4.0	27.0	1	1/15	0.5	15	20	15	20	9	15
MOS015H22	KAGB-0150-CAV	208-230	1	60	8.6	55.0	2	1/15	1.0	15	24	20	25	9	19
MOS015H23	KAGA-0150-TAC	208-230	3	60	4.9	35.5	2	1/15	1.0	15	20	15	20	8	15
MOS015H24	KAGA-0150-TAD	460	3	60	2.2	18.2	2	1/15	1.0	15	15	15	15	^	^
MOS020H23	ERA1-0200-TAC	208-230	3	60	5.9	46.0	2	1/15	1.0	15	24	15	25	9	19
MOS020H24	ERA1-0200-TAD	460	3	60	3.1	46.0	2	1/15	1.0	15	15	15	15	^	^
MOS020M22	KAKB-0200-CAV	208-230	1	60	9.5	55.0	2	1/15	1.0	15	24	20	25	6	19
MOS020M23	KAKA-0200-TAC	208-230	3	60	6.1	50.0	2	1/15	1.0	15	24	15	25	9	19
MOS021M23	ERC1-0200-TAC	208-230	3	60	6.1	46.0	2	1/15	1.0	15	24	15	25	9	19
MOS021M24	ERC1-0200-TAD	460	3	60	3.3	23.0	2	1/15	1.0	15	15	15	15	^	^
MOS029M29	ERF2-0310-CAB	230	1	60	15.6	86.0	2	1/15	1.0	21	38	35	45	12	30
MOS029M23	ERF1-0311-TAC	208-230	3	60	11.2	82.0	2	1/15	1.0	15	29	25	35	12	23
MOS029M24	ERFI-0311-TAD	460	3	60	5.2	41.0	2	1/15	1.0	15	15	15	15	^	^
MOS030H23	ERF1-0311-TAC	208-230	3	60	11.2	82.0	1	1/3	3.5	20	38	25	40	12	30
MOS030H24	ERF1-0311-TAD	460	3	60	5.2	41.0	1	1/3	1.9	15	15	15	15	^	^
MOS010M62	KARB-010E-CAV	208-230	1	60	6.4	40.0	1	1/15	0.5	15	20	15	20	7	15
MOS010M63	KARA-010E-TAC	208-230	3	60	3.8	27.0	1	1/15	0.5	15	20	15	20	9	15
MOS020M62	KAKB-021E-CAV	208-230	1	60	9.1	55.0	2	1/15	1.0	15	24	20	25	6	19
MOS020M63	KAKA-020E-TAC	208-230	3	60	5.8	50.0	2	1/15	1.0	15	24	15	25	9	19
MOS021M63	ERCA-021E-TAC	208-230	3	60	7.9	46.0	2	1/15	1.0	15	24	15	25	9	19
MOS021M64	ERCA-020E-TAD	460	3	60	3.1	23.0	2	1/15	1.0	15	15	15	15	^	^
MOS030M63	ERFA-031E-TAC	208-230	3	60	11.2	82.0	1	1/3	3.5	20	38	25	40	12	30
MOS030M64	ERFA-031E-TAD	460	3	60	5.2	41.0	1	1/3	1.9	15	15	15	15	^	^

[^] Power supplied by customer.

[†] Consult factory for 50 HZ applications.

1/2 To 6 HP Indoor & Outdoor Condensing Units

SEMI-HERMETIC COMPRESSORS Electrical Data - Low Temperature

Model Number	Part Number	Power Supply			Compressor		Fan Motor			MCA		MOPD		Evap. Fan Amps	Defrost Heater Amps
		Volts	Ph	Hz [†]	RLA	LRA	Qty.	HP	FLA	Air	Elec.	Air	Elec.		
MOS005L62	KANB-005E-CAV	208-230	1	60	3.1	24.0	1	1/15	0.5	15	20	15	20	9.0	15
MOS005L63	KANA-006E-TAC	208-230	3	60	2.0	13.2	1	1/15	0.5	15	20	15	20	9.6	15
MOS008L62	KAMB-007E-CAV	208-230	1	60	5.1	36.0	1	1/15	0.5	15	20	15	20	8.0	15
MOS008L63	KAMA-007E-TAC	208-230	3	60	2.9	19.9	1	1/15	0.5	15	20	15	20	9.0	15
MOS010L62	KAJB-010E-CAV	208-230	1	60	6.2	40.0	1	1/15	0.5	15	20	15	20	8.0	15
MOS010L63	KAJA-011E-TAC	208-230	3	60	4.1	27.0	1	1/15	0.5	15	20	15	20	9.0	15
MOS015L62	KALB-015E-CAV	208-230	1	60	8.9	55.0	2	1/15	1.0	15	24	20	25	8.0	19
MOS015L63	KALA-016E-TAC	208-230	3	60	6.0	50.0	2	1/15	1.0	15	20	15	20	7.6	15
MOS015L64	KALA-016E-TAD	460	3	60	3.1	25.0	2	1/15	1.0	15	20	15	20	9.0	15
MOS020L63	EADA-020E-TAC	208-230	3	60	6.1	46.0	2	1/15	1.0	15	20	15	20	7.0	15
MOS021L62	EAVB-021E-CAV	208-230	1	60	13.2	102.0	2	1/15	1.0	20	29	30	30	4.0	23
MOS021L63	EAVA-021E-TAC	208-230	3	60	6.6	50.0	2	1/15	1.0	15	20	15	20	7.0	15
MOS021L64	EAVA-021E-TAD	460	3	60	2.9	26.6	2	1/15	1.0	15	20	15	20	9.0	15
MOS030L63	LAHA-032E-TAC	208-230	3	60	11.5	112.0	2	1/15	1.0	20	29	25	35	12.0	23
MOS030L64	LAHA-032E-TAD	460	3	60	5.4	56.0	2	1/15	1.0	15	15	15	15	^	^
MOS030E63	LACA-032E-TAC	208-230	3	60	11.5	112.0	2	1/15	1.0	20	29	25	35	12.0	23
MOS030E64	LACA-032E-TAD	460	3	60	5.4	56.0	2	1/15	1.0	15	15	15	15	^	^

^ Power supplied by customer.

† Consult factory for 50 HZ applications.

NOTE: Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56

Replacement Parts List				
Model	PSC Motor	EC Motor	Fan Blade	Orbus Controller
A, B, C Cabinet	25309101, 230/1	25319201, 230/1	22901601, 14"	28962001
D Cabinet	25309001, 230/1 25309002, 460/1	25319101, 230/1	7173156, 22"	28962001

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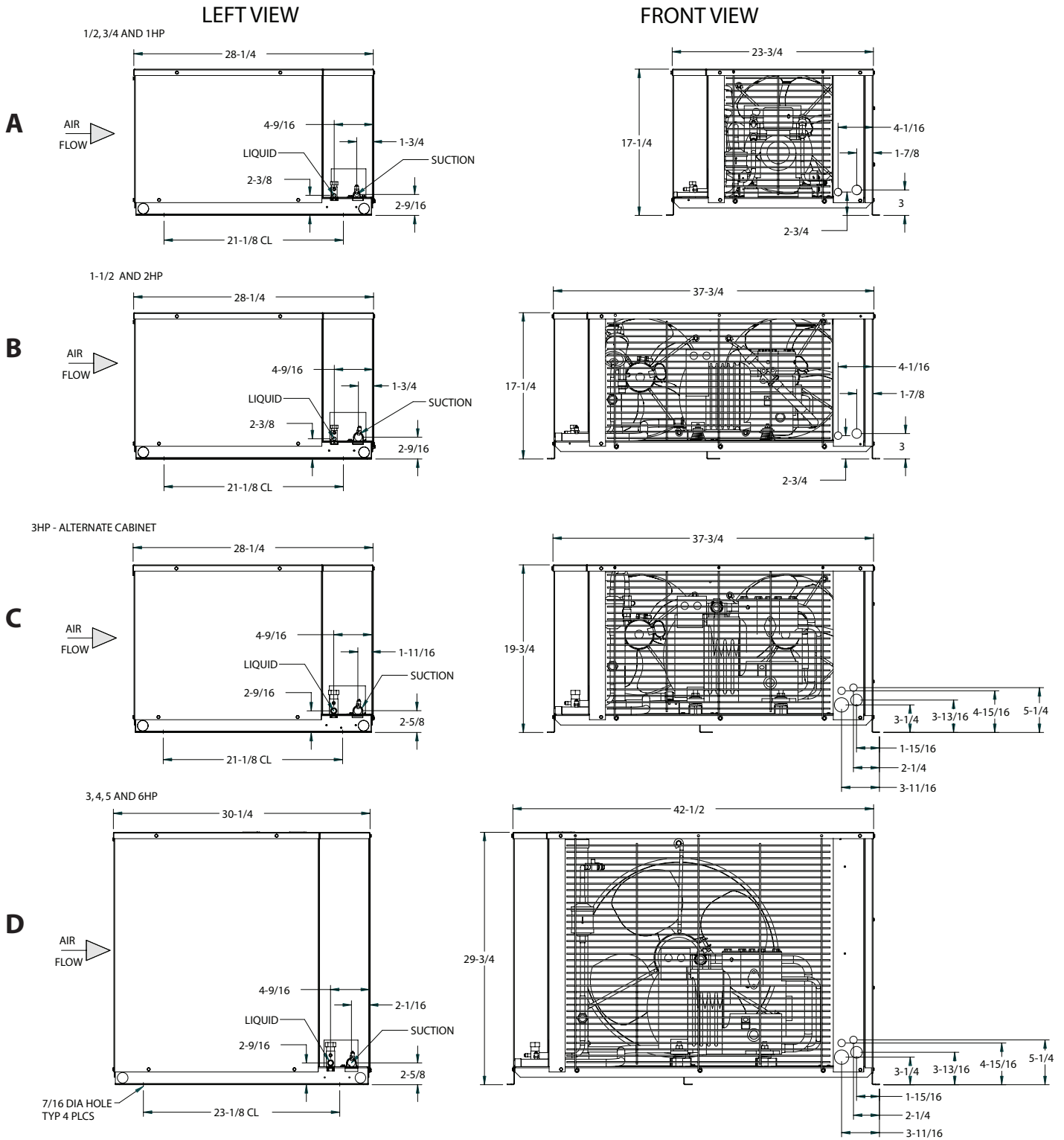
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1/2 To 6 HP Indoor & Outdoor Condensing Units

Dimensional Drawings

OUTDOOR

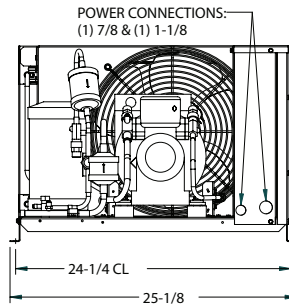


1/2 To 6 HP Indoor & Outdoor Condensing Units

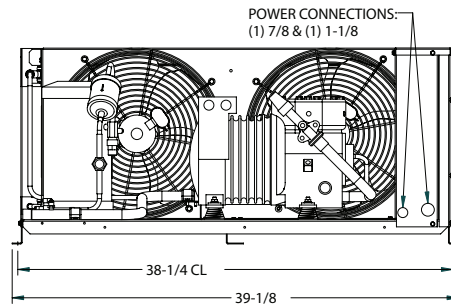
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FRONT VIEW

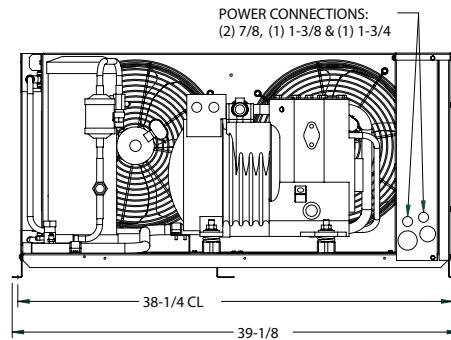
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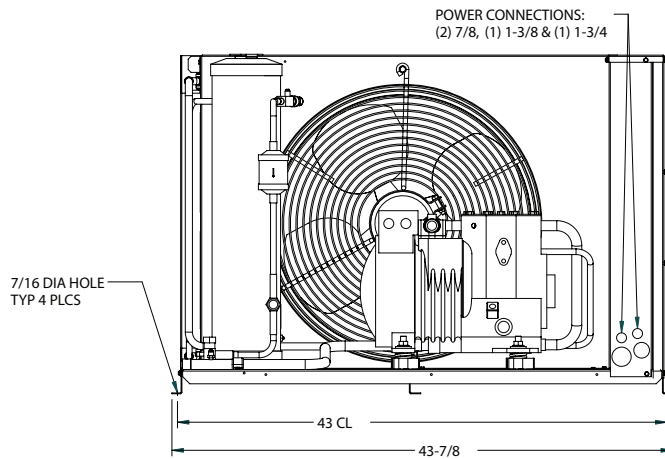
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C



D



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BN-PROTB
August 2012

Replaces BN-PTMTB, 11/08 & BN-PSMTB, 0508

PRO³ TOP MOUNT & SIDE MOUNT PACKAGED REFRIGERATION SYSTEMS Technical Guide

Models PTN | PTT | PST

For Indoor and Outdoor Applications



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E Solutions™ branded products and options are designed to exceed current energy and environmental standards. We have made a conscious commitment to developing environmentally innovative products that allow our customers to make energy efficient, eco-conscious choices. Products included in the **E Solutions** portfolio reduce costs, improve bottom lines, and enhance both equipment performance and service life. The PRO³ Top Mount and Side Mount packaged refrigeration systems have a reduced refrigerant charge compared to comparable split systems. Also, EC motors are available for the evaporator portion of these units for increased energy efficiency and decreased energy costs. Visit www.heatcraftprd.com/esolutions for more information.

Nomenclature

P	T	N	072	H	6	B	H
Product Line	Design Orientation	Application Location	Nominal Capacity	Temperature Range	Refrigerant Type	Voltage	Motor
P = PRO ³ Packaged Refrigeration System	T = Top Mount	N = Indoor T = Outdoor	# = BTUH X 100	H = High/ Medium L = Low M = Medium	6 = R-404A	A = 115/1/60 B = 208-230/ 1/60 C = 208-230/ 3/60	H = PSC E = EC (evap. only)

P	S	T	070	L	6	B	H
Product Line	Design Orientation	Application Location	Nominal Capacity	Temperature Range	Refrigerant Type	Voltage	Motor
P = PRO ³ Packaged Refrigeration System	S = Side Mount	T = Outdoor	# = BTUH X 100	H = High/ Medium L = Low M = Medium w/ electric Defrost	6 = R-404A	B = 208-230/ 1/60	H = PSC E = EC (evap. only)

Features and Benefits

The PRO³ Top Mount and Side Mount packaged refrigeration systems combine evaporator and condensing unit into one unit expediting installation time and reducing refrigerant charge — saving time, money, and energy.

These systems are designed to maximize storage space inside walk-in coolers or freezers and are ideal for small- to medium-sized restaurant and convenience store applications.

Systems are fully-assembled, evacuated, charged, run-tested and wired at the factory. No additional components are required.



NSF listing applies to evaporator grill portion.

PRO³ Top Mount Installed



PRO³ Side Mount Installed



Top Mount

Side Mount

Primary Application		
<i>Optimized for indoor use</i>	√	<i>Available</i>
<i>Optimized for outdoor use</i>	<i>Available</i>	√
Aesthetics		
<i>Maximum vertical storage capacity</i>	√	
<i>Restaurant-quality brushed-aluminum finish</i>	√	√
Performance		
<i>Recommended for temperature pull-down</i>		√
<i>Ideal for holding temperature</i>	√	√
<i>Maximum airflow</i>		√
<i>Medium-temp defrost</i>		√
Environmentally Friendly		
<i>Reduced refrigerant charge</i>	√	√
<i>R-404A ready</i>	√	√
Energy Efficiency		
<i>PSC Motors</i>	√	√
<i>EC Motors (Evaporator section only)</i>	<i>Available</i>	<i>Available</i>
Ease of Installation		
<i>Pre-charged with refrigerant</i>	√	√
<i>No refrigerant piping required</i>	√	√
<i>Evaporative condensate pan</i>	√	<i>Drain line needed</i>
Controls		
<i>Microprocessor control</i>	√	√
Reliable Durable		
<i>Liquid-line filter drier</i>	<i>Medium and large cabinet only</i>	√
<i>Two-year parts warranty</i>	√	√

New EC Motors for PRO³ Top Mount Packaged Refrigeration Systems

Introducing the most energy efficient motor available for packaged refrigeration systems. Choosing energy efficient motors for your packaged systems can provide significant energy savings and lower operational costs. Additionally, because these motors can help reduce heat load (and system run-time), they can improve the reliability and longevity of refrigeration equipment.

Electronically Commutated (EC) motors even further improve energy efficiency and equipment reliability. EC motors by InterLink™ are up to 75% efficient – that’s a 51-59% increase over shaded pole motors and a 30-35% increase over PSC motors. As with PSC motors, you save money both directly from a decrease in motor watts and also from a reduction of heat gain into the refrigerated space.

Permanent Split Capacitor (PSC) motors can significantly lower your energy costs. PSC motors average 30-35% higher efficiency than shaded pole motors and offer dual energy savings by reducing motor watts and heat gain into the refrigerated space.

High Temperature Model	EC vs PSC Motors
PTN 026H6	\$13
PTN 031H6	\$13
PTN 042H6	\$13
PT* 050H6	\$23-\$32
PT* 067H6	\$65
PT* 076H6	\$65
PT* 104H6	\$97
PT* 133H6	\$97

Medium Temperature Model	EC vs PSC Motors
PTN 024M6	\$13
PTN 029M6	\$13
PTN 040M6	\$13
PT* 047M6	\$23-\$32
PT* 063M6	\$65
PT* 072M6	\$65
PT* 099M6	\$97
PT* 128M6	\$97

Low Temperature Model	EC vs PSC Motors
PT*021L6	\$18-\$30
PT*031L6	\$60
PT*044L6	\$60
PT*052L6	\$91
PT*069L6	\$91

[†] Savings are calculated using a cost of \$.09/kWh

* T For Outdoor, N for Indoor.

PRO³ Top Mount | Performance, Capacities and Specifications

Model PTN/PTT High/Medium Temperature | Air Defrost | Cooler Application

Model	80°F Ambient		90°F Ambient		95°F Ambient		100°F Ambient		110°F Ambient	
	Box Temperature									
	35° F	38° F	35° F	38° F	35° F	38° F	35° F	38° F	35° F	38° F
PTN026H6	2,970	3,100	2,730	2,860	2,610	2,740	2,470	2,600	2,230	2,340
PTN031H6	3,590	3,750	3,300	3,450	3,160	3,310	2,980	3,140	2,390	2,820
PTN042H6	4,950	5,170	4,560	4,760	4,360	4,570	4,110	4,330	3,710	3,890
PT*050H6	5,820	6,080	5,350	5,600	5,120	5,370	4,830	5,080	4,360	4,570
PT*067H6	7,800	8,150	7,180	7,500	6,860	7,190	6,470	6,810	5,850	6,130
PT*076H6	8,610	9,060	7,890	8,260	7,500	7,840	7,100	7,420	6,270	6,540
PT*104H6	12,990	13,750	11,800	12,490	11,190	11,810	10,550	11,200	9,260	9,840
PT*133H6	14,780	15,600	13,530	14,260	12,790	13,500	12,040	12,750	10,740	11,310

Model PTN/PTT Medium Temperature | Electric Defrost | Freezer Application

Model	80°F Ambient	90°F Ambient	95°F Ambient	100°F Ambient	110°F Ambient
	Box Temperature				
	35° F	35° F	35° F	35° F	35° F
PTN024M6	2,970	2,730	2,610	2,470	2,230
PTN029M6	3,590	3,300	3,160	2,980	2,390
PTN040M6	4,950	4,560	4,360	4,110	3,710
PT*047M6	5,820	5,350	5,120	4,830	4,360
PT*063M6	7,800	7,180	6,860	6,470	5,850
PT*072M6	8,610	7,890	7,500	7,100	6,270
PT*099M6	12,990	11,800	11,190	10,550	9,260
PT*128M6	14,780	13,530	12,790	12,040	10,740

*T For Outdoor, N for Indoor.

PRO³ Top Mount | Performance, Capacities and Specifications

Model PTN/PTT Low Temperature | Electric Defrost | Freezer Application

Model	80°F Ambient			90°F Ambient			95°F Ambient			100°F Ambient			110°F Ambient		
	Box Temperature														
	0° F	-10° F	-20° F	0° F	-10° F	-20° F	0° F	-10° F	-20° F	0° F	-10° F	-20° F	0° F	-10° F	-20° F
PT*021L6	3,220	2,590	1,610	2,860	2,300	1,430	2,680	2,160	1,340	2,470	1,990	1,230	2,080	1,670	1,030
PT*031L6	5,060	3,830	2,470	4,500	3,400	2,200	4,220	3,190	2,060	3,880	2,940	1,900	3,260	2,470	1,600
PT*044L6	7,040	5,440	4,080	6,260	4,830	3,630	5,870	4,530	3,400	5,400	4,170	3,130	4,540	3,500	2,630
PT*052L6	8,400	6,430	4,690	7,470	5,720	4,170	7,000	5,360	3,910	6,440	4,930	3,600	5,410	4,140	3,020
PT*069L6	10,870	8,520	6,300	9,670	7,850	5,600	9,060	7,100	5,250	8,340	6,530	4,830	7,010	5,490	4,060

Model PTN/PTT Electrical Data | Specifications | All Models

Model	Compressor Model	Voltage	MCA	MOPD	Unit amps	Evaporator CFM	Plug Supplied	Matching NEMA Receptacle	Dimensions Figure ¹	Approximate Net Weight	
										lbs.	kg
PTN 026H6A [^]	ASE20C4E	115/1/60	7.4	15	5.9	340	Yes	5-20R	A	88	40
PTN 031H6A [^]	ASE26C4E	115/1/60	8.3	15	6.9	340	Yes	5-20R	A	90	41
PTN 042H6A [^]	ASE35C4E	115/1/60	11.3	15	9.3	340	Yes	5-20R	A	92	42
PTN 050H6A [^]	RST45C1E	115/1/60	14.0	20	11.6	350	Yes	5-20R	B	192	87
PT*050H6B [^]	RST45C1E	208-230/1/60	7.0	15	5.9	350	Yes ²	6-15R	B	192	87
PT*067H6B [^]	RST64C1E	208-230/1/60	11.5	15	9.5	550	Yes ²	6-15R	B	207	94
PT*076H6B [^]	RS70C1E	208-230/1/60	9.3	15	7.8	500	Yes ²	6-15R	B	211	95
PT*104H6B [^]	CS10K6E	208-230/1/60	14.8	20	12.4	875	Yes ²	6-20R	C	270	122
PT*104H6C [^]	CS10K6E	208-230/3/60	11.0	15	9.3	875	-	-	C	265	120
PT*133H6B [^]	CS12K6E	208-230/1/60	14.8	20	12.4	825	Yes ²	6-20R	C	290	132
PT*133H6C [^]	CS12K6E	208-230/3/60	11.0	15	9.3	825	-	-	C	285	129
PT*024M6A [^]	ASE20C4E	115/1/60	7.4	15	5.9	340	Yes	5-20R	A	88	40
PT*029M6A [^]	ASE26C4E	115/1/60	8.3	15	6.9	340	Yes	5-20R	A	90	41
PT*040M6A [^]	ASE35C4E	115/1/60	11.3	15	9.3	340	Yes	5-20R	A	92	42
PTN 047M6A [^]	RST45C1E	115/1/60	14.0	20	11.6	350	Yes	5-20R	B	192	87
PT*047M6B [^]	RST45C1E	208-230/1/60	7.0	15	5.9	350	Yes ²	6-15R	B	192	87
PT*063M6B [^]	RST64C1E	208-230/1/60	11.5	15	9.5	550	Yes ²	6-15R	B	207	94
PT*072M6B [^]	RS70C1E	208-230/1/60	9.3	15	7.8	500	Yes ²	6-15R	B	211	95
PT*099M6B [^]	CS10K6E	208-230/1/60	14.8	20	12.4	875	Yes ²	6-20R	C	270	122
PT*099M6C [^]	CS20K6E	208-230/3/60	11.0	15	9.3	875	-	-	C	265	120
PT*128M6B [^]	CS12K6E	208-230/1/60	14.8	20	12.4	825	Yes ²	6-20R	C	290	132
PT*128M6C [^]	CS12K6E	208-230/3/60	11.0	15	9.3	825	-	-	C	285	129
PT*021L6A [^]	AJA2425ZXD	115/1/60	14.5	20	12.3	350	Yes	5-20R	B	213	97
PT*021L6B [^]	AJA2425ZXD	208-230/1/60	7.6	15	6.5	350	Yes ²	6-15R	B	213	97
PT*031L6B [^]	CF04K6E	208-230/1/60	13.8	15	11.6	550	Yes ²	6-15R	B	221	100
PT*044L6B [^]	CF06K6E	208-230/1/60	15.9	20	13.3	520	Yes ²	6-20R	B	225	102
PT*052L6B [^]	CF06K6E	208-230/1/60	18.1	20	15.3	900	-	-	C	275	125
PT*052L6C [^]	CF06K6E	208-230/3/60	12.2	15	13.0	900	-	-	C	270	122
PT*069L6B [^]	CF09K6E	208-230/1/60	23.8	30	20.0	875	-	-	C	280	127
PT*069L6C [^]	CF09K6E	208-230/3/60	15.9	20	14.2	875	-	-	C	275	125

[^] Indicates either E for EC evaporator motor or H for PSC evaporator motor

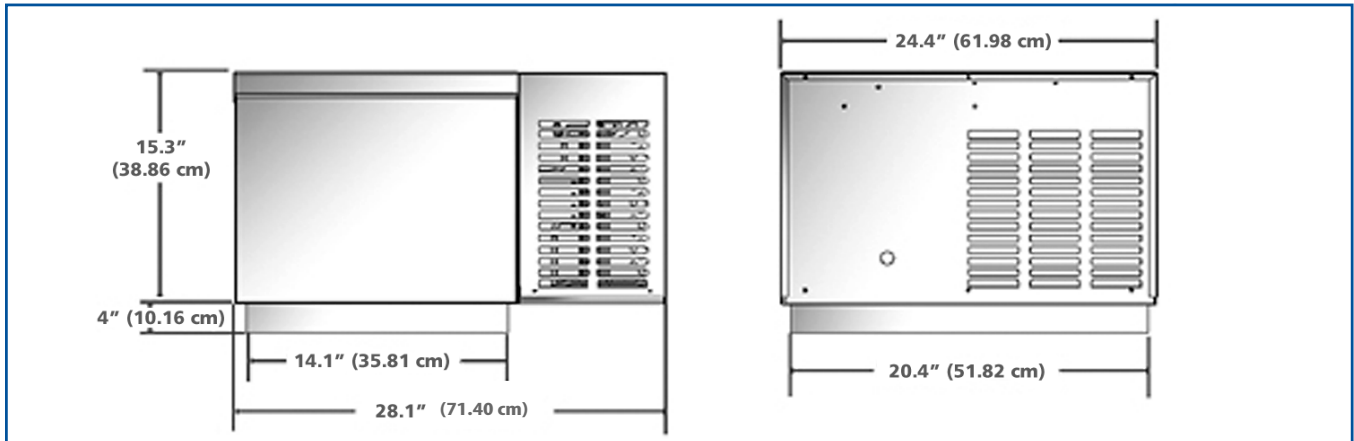
*T For Outdoor, N for Indoor.

² Plug Supplied on Indoor models only.

¹ See dimensions page 6.

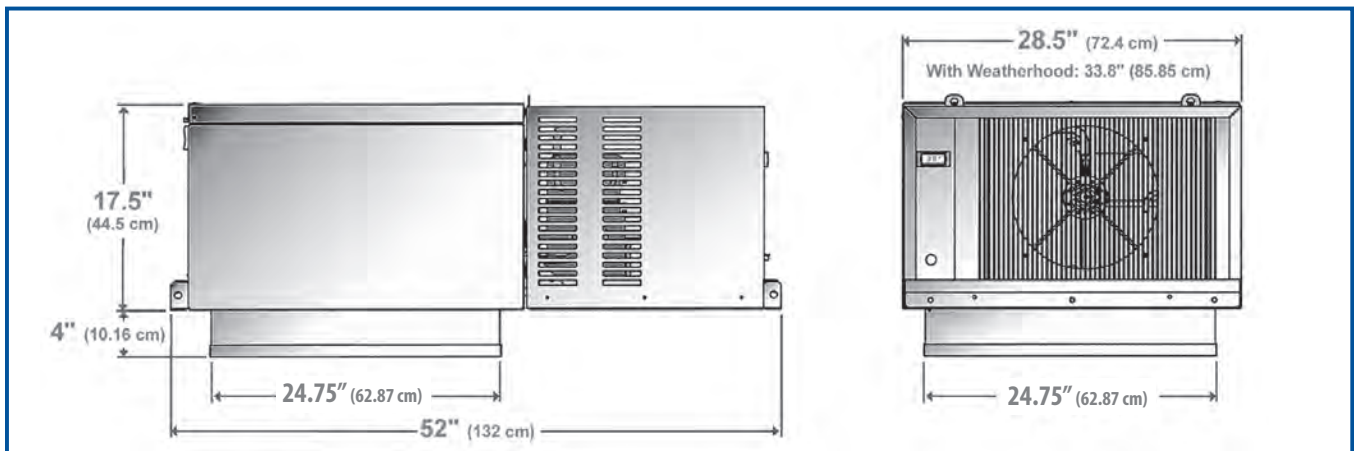
PRO³ Top Mount | Dimensions

Figure A Small Cabinet Design (indoor only)



14.5"x20.75" panel opening required for evaporator section of small cabinet sizes.

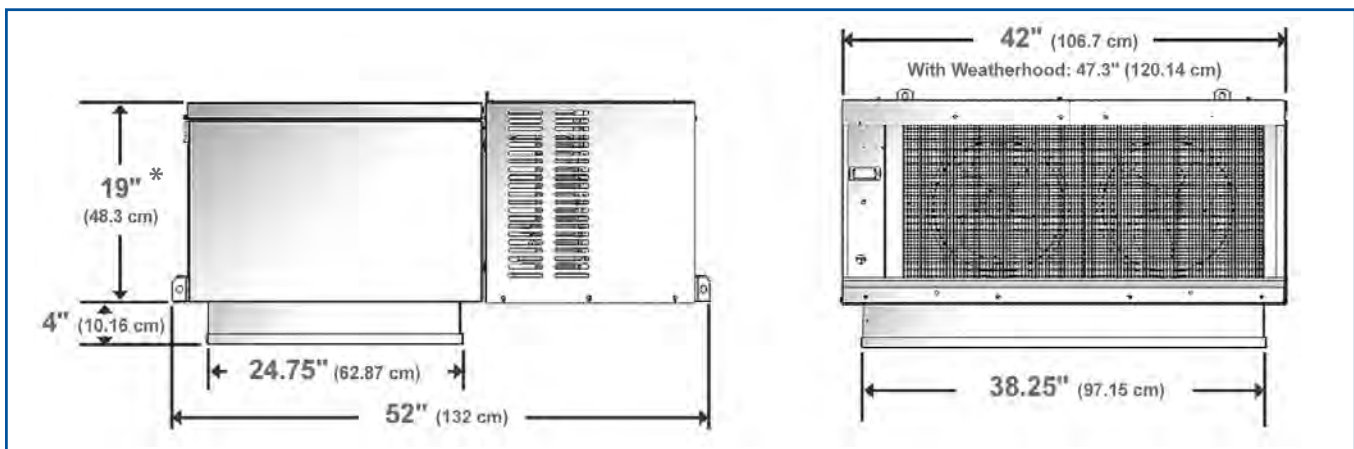
Figure B Medium Cabinet Design



25"x25" panel opening required for evaporator section of medium cabinet sizes.

*- 21.5" (54.61 cm) on outdoor models with weatherhood

Figure C Large Cabinet Design



25"x38.5" panel opening required for evaporator section of large cabinet sizes.

*- 23.5" (59.69 cm) on outdoor models with weatherhood

* For installation instructions refer to the Installation and Operation Manual.

PRO³ Side Mount | Performance, Capacities and Specifications

Model PST High/Medium Temperature | Air Defrost | Cooler Application

Model	80° F Ambient		90° F Ambient		95° F Ambient		100° F Ambient		110° F Ambient	
	Box Temperature									
	35° F	38° F	35° F	38° F	35° F	38° F	35° F	38° F	35° F	38° F
PST070H6B*	7,066	7,414	6,860	7,198	6,641	6,968	6,442	6,759	5,678	5,957
PST090H6B*	9,196	9,644	8,928	9,363	8,643	9,064	8,383	8,792	7,389	7,749
PST131H6B*	13,244	13,946	12,859	13,540	12,448	13,107	12,074	12,714	10,643	11,207
PST147H6B*	14,982	15,702	14,545	15,245	14,081	14,758	13,658	14,315	12,039	12,618

Model PST Medium Temperature | Electric Defrost | Cooler Application

Model	80° F Ambient		90° F Ambient		95° F Ambient		100° F Ambient		110° F Ambient	
	35° F Box Temperature									
PST066M6B*	7,066		6,860		6,641		6,442		5,678	
PST086M6B*	9,196		8,928		8,643		8,383		7,389	
PST124M6B*	13,244		12,859		12,448		12,074		10,643	
PST141M6B*	14,982		14,545		14,081		13,658		12,039	

Model PST Low Temperature | Electric Defrost | Freezer Application

Model	80° F Ambient			90° F Ambient			95° F Ambient			100° F Ambient			110° F Ambient		
	Box Temperature														
	0° F	-10° F	-20° F	0° F	-10° F	-20° F	0° F	-10° F	-20° F	0° F	-10° F	-20° F	0° F	-10° F	-20° F
PST034L6B*	5,584	4,052	2,659	5,031	3,651	2,395	4,746	3,444	2,260	4,366	3,168	2,079	3,726	2,704	1,774
PST051L6B*	7,683	6,025	4,377	6,922	5,428	3,943	6,530	5,121	3,720	6,008	4,711	3,423	5,126	4,020	2,920
PST057L6B*	8,873	6,748	4,609	7,994	6,079	4,153	7,541	5,735	3,918	6,938	5,276	3,604	5,920	4,502	3,075
PST077L6B*	11,769	9,079	6,694	10,602	8,179	6,030	10,002	7,716	5,689	9,202	7,099	5,234	7,852	6,057	4,466

Model PST Electrical Data | Specifications

Model	Compressor Model	Voltage	MCA	MOPD	Evaporator CFM	Dimensions Figure ¹	Approximate Net Weight	
							lbs.	kg
PST070H6B*	RST64C1E	208-230/1/60	15.0	20.0	625	A	260	118
PST090H6B*	RST70C1E	208-230/1/60	15.0	20.0	625	A	265	120
PST131H6B*	CS10K6E	208-230/1/60	15.0	20.0	1,350	B	320	145
PST147H6B*	CS12K6E	208-230/1/60	15.0	20.0	1,350	B	325	148
PST066M6B*	RST64C1E	208-230/1/60	15.0	20.0	625	A	260	118
PST086M6B*	RST70C1E	208-230/1/60	15.0	20.0	625	A	265	120
PST124M6B*	CS10K6E	208-230/1/60	15.0	20.0	1,350	B	320	145
PST141M6B*	CS12K6E	208-230/1/60	15.0	20.0	1,350	B	325	148
PST034L6B*	CF04K6E	208-230/1/60	15.0	20.0	625	A	260	118
PST051L6B*	CF06K6E	208-230/1/60	15.0	20.0	625	A	265	120
PST057L6B*	CF06K6E	208-230/1/60	15.0	20.0	1,350	B	320	145
PST077L6B*	CF09K6E	208-230/1/60	20.7	35.0	1,350	B	325	148

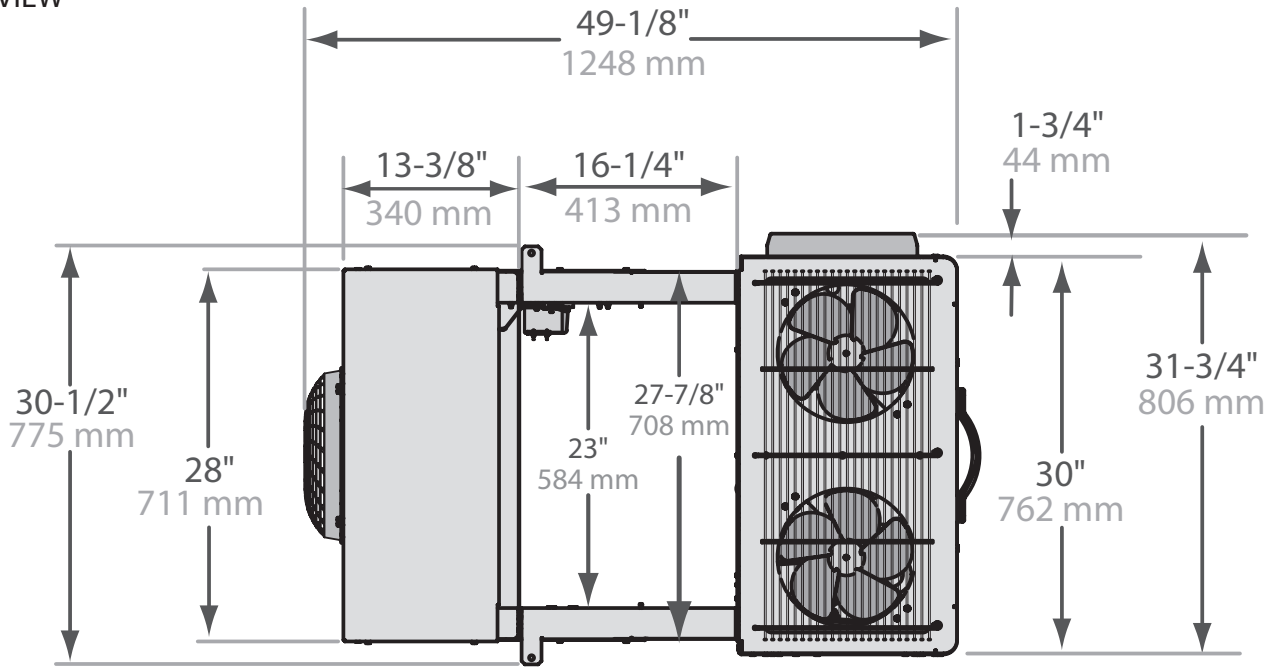
* H for PSC, E for EC motor on evaporator section only.

¹ See dimensional diagrams, page 8 and 9.

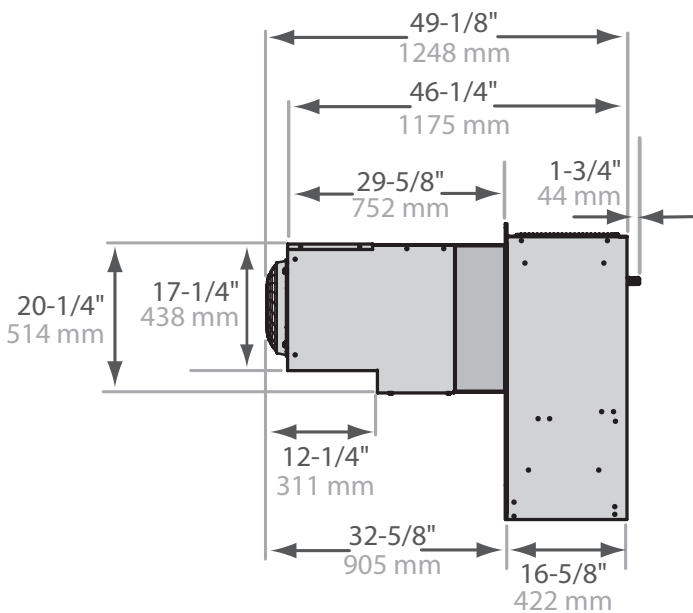
PRO³ Side Mount | Dimensions

Figure A Model PST | Small Cabinet

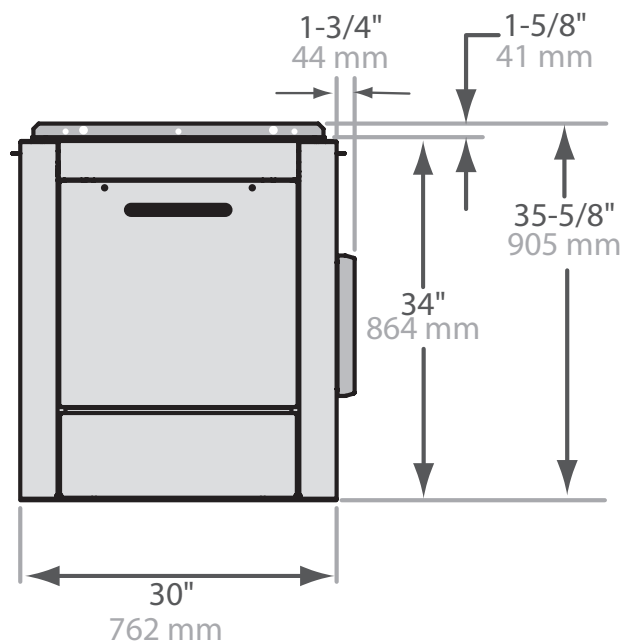
TOP VIEW



SIDE VIEW



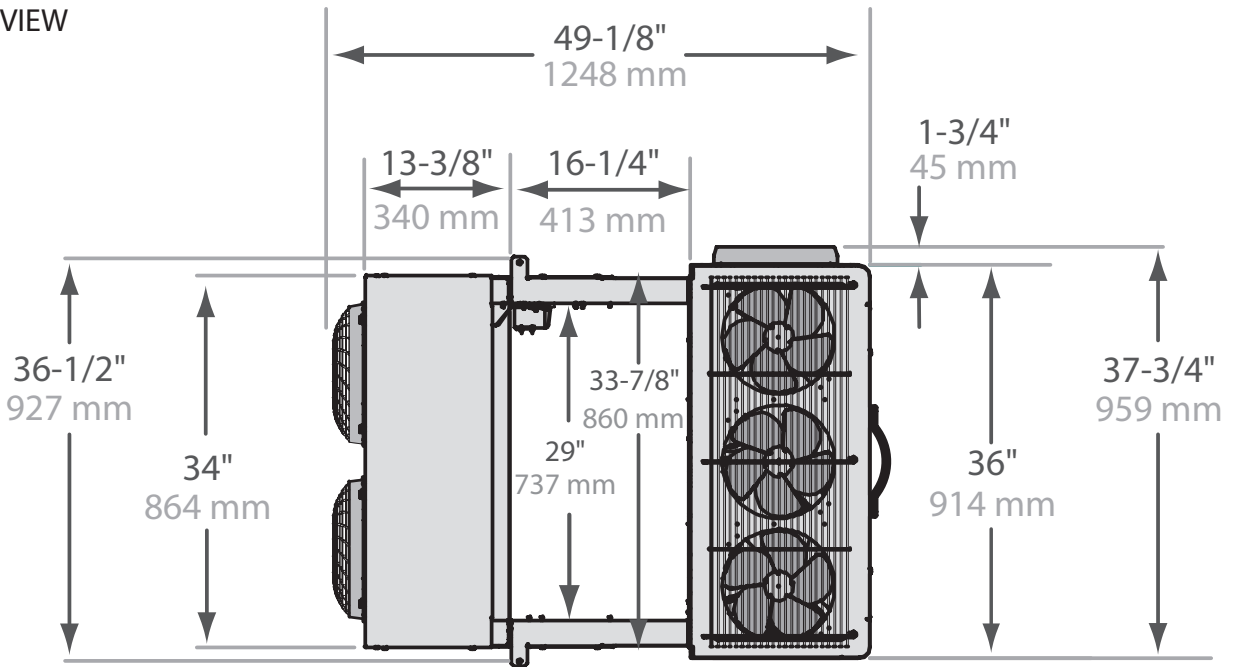
BACK VIEW



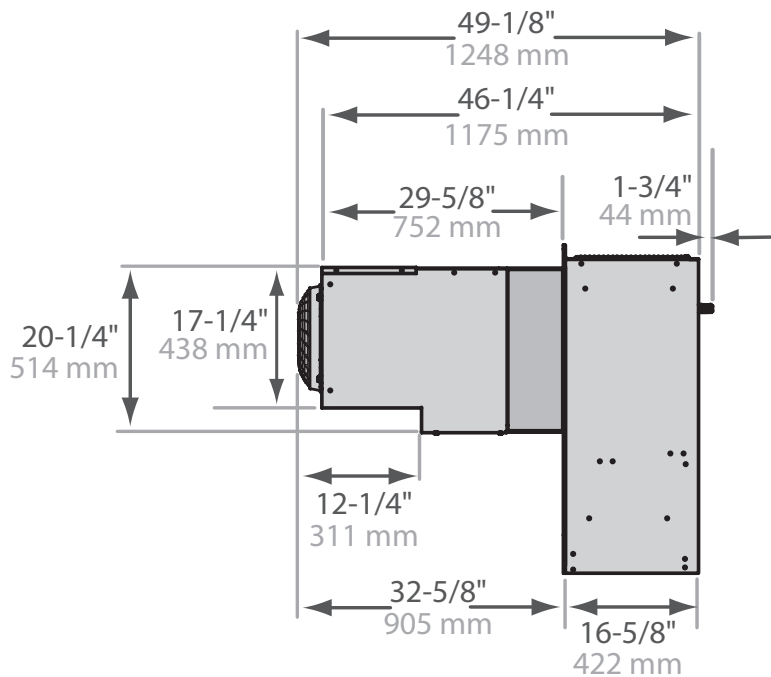
PRO³ Side Mount | Dimensions

Figure B Model PST | Large Cabinet

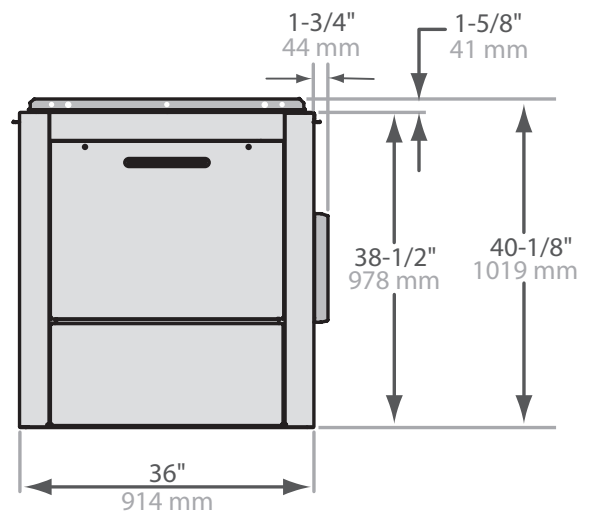
TOP VIEW



SIDE VIEW



BACK VIEW



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Part Description	Part Number	PRO ³ Top Mount Indoor Models																																
		High Temp												Med Temp						Low Temp														
		PTN026H6A^	PTN031H6A^	PTN042H6A^	PTN050H6A^	PTN050H6B^	PTN067H6B^	PTN076H6B^	PTN104H6B^	PTN104H6C^	PTN133H6B^	PTN133H6C^	PTN024M6A^	PTN029M6A^	PTN040M6A^	PTN047M6A^	PTN047M6B^	PTN063M6B^	PTN072M6B^	PTN099M6B^	PTN099M6C^	PTN128M6B^	PTN128M6C^	PTN019L6A^	PTN021L6A^	PTN021L6B^	PTN031L6B^	PTN044L6B^	PTN052L6B^	PTN052L6C^	PTN069L6B^	PTN069L6C^		
Fan Blades	Evaporator	22901901				1	1	2	2	3	3	3	3				1	1	2	2	3	3	3	3		1	1	2	2	3	3	3	3	
	Evaporator	23100501	1	1	1									1	1	1									1									
	Condenser	22900701				1	1	1	1	2	2	2	2				1	1	1	1	2	2	2	2		1	1	1	1	2	2	2	2	
	Condenser	2290601	1	1	1									1	1	1									1									
Fan Motors	Evaporator (208-230V)	25307801*				1	2	2	3	3	3	3							1	2	2	3	3	3	3		1	2	2	3	3	3	3	
	Evaporator (115 V)	25307701														1									1									
	Evaporator (115 V)	25303201											1	1	1										1									
	Condenser (208-230V)	25307801				1	1	1	2	2	2	2							1	1	1	2	2	2	2		1	1	1	2	2	2	2	
	Condenser (115 V)	25307701				1										1									1									
	Condenser (115 V)	25300101	1	1	1								1	1	1										1									
	Evap Fan Motor Bracket	4000104				1	1	2	2	3	3	3	3				1	1	2	2	3	3	3	3		1	1	2	2	3	3	3	3	
	Evap Fan Motor Bracket	23101401	1	1	1								1	1	1										1									
	Cond Fan Motor Bracket	23103301				1	1	1	1	2	2	2	2							1	1	1	1	2	2	2		1	1	1	1	2	2	2
Cond Fan Motor Bracket	23101101	1	1	1								1	1	1										1										
Contactors	25A, 208-230	2259996																													1	1		
	20A, 115V	2252303	1	1	1	1							1	1	1	1								1	1									
	20A, 230V	R034915200				1	1	1	1		1								1	1	1	1		1		1	1	1	1		1			
Temperature Control	Temp Control (208-230V)	21301001				1	1	1	1	1	1	1							1	1	1	1	1	1	1		1	1	1	1	1	1	1	1
	Temp Control (115V)	21301101	1	1	1	1							1	1	1	1									1	1								
	Room Temp Sensor	28913702	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Defrost Temp Sensor	28913701	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Heater Limit Thermostat	5708L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Defrost Heaters	Defrost Heaters (115V)	24751901																						1										
	Defrost Heaters (115V)	24712101																							3									
	Defrost Heaters (230V)	4312F																								3	3	3						
	Defrost Heaters (230V)	4313F																												3	3	3	3	

^ H for PSC, E for EC motor on evaporator section only.

*PSC motor option (H designation on end of model name): part 25307801=25308601, part 25307701=25308501, part 25303201=25399201, part 25300101=25308501. Contact InterLink Parts at 800-686-7278.

Replacement Parts

Part Description			Part Number			PRO ³ Top Mount Outdoor Models																		
						High Temp								Med Temp				Low Temp						
						PTN050H6A [^]	PTN050H6BA	PTN067H6BA	PTN076H6BA	PTN104H6BA	PTN104H6CA	PTN133H6BA	PTN133H6CA	PTN047M6BA [^]	PTN063M6BA [^]	PTN072M6BA [^]	PTN099M6BA [^]	PTN099M6CA [^]	PTN128M6BA [^]	PTN128M6CA [^]	PTN021L6BA [^]	PTN031L6BA [^]	PTN044L6BA [^]	PTN052L6BA [^]
Fan Blades	Evaporator	22901901	1	1	2	2	3	3	3	3	1	2	2	3	3	3	3	1	2	2	3	3	3	3
	Condenser	22900701	1	1	1	1	2	2	2	2	1	1	1	2	2	2	2	1	1	1	2	2	2	2
Fan Motors	Evaporator (208-230V)	25307801*		1	2	2	3	3	3	3	1	2	2	3	3	3	3	1	2	2	3	3	3	3
	Condenser (208-230V)	25307801		1	1	1	2	2	2	2	1	1	1	2	2	2	2	1	1	1	2	2	2	2
	Condenser (115V)	25307701	1																					
	Evap Fan Motor Bracket	4000104	1	1	2	2	3	3	3	3	1	2	2	3	3	3	3	1	2	2	3	3	3	3
	Cond Fan Motor Bracket	23103301	1	1	1	1	2	2	2	2	1	1	1	2	2	2	2	1	1	1	2	2	2	2
Contactors	25A, 208-230	2259996					1		1					1		1						1		1
	20A, 115V	2252303	1																					
	20A, 230V	R034915200		1	1	1	1	1			1	1	1	1	1	1		1	1	1	1		1	
Temperature Control	Temp Control (208-230V)	21301001		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Temp Control (115V)	21301101	1																					
	Room Temp Sensor	28913702	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Defrost Temp Sensor	28913701	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Heater Limit Thermostat	5708L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Defrost Heater	Defrost Heaters (230V)	4312F															3	3	3					
	Defrost Heaters (230V)	4313F																		3	3	3	3	3
Outdoor Parts	Fan Pressure Control	28917301	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Fan Temp Control	5521R					1	1	1	1				1	1	1	1				1	1	1	1
	Drain Line Heater	24753401	1	1	1	1					1	1												
	Drain Line Heater T'stat	28917401	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Weatherhood Medium	50047901	1	1	1						1	1						1	1	1				
	Weatherhood Large	50047801											1	1	1	1	1				1	1	1	1

Part Description			Part Number			PRO ³ Side Mount Models											
						Coolers				Coolers w/ electric defrost				Freezers			
						PST070H6BA	PST090H6BA	PST131H6BA	PST147H6BA	PST066M6BA	PST086M6BA	PST124M6BA	PST141M6BA	PST034L6BA	PST051L6BA	PST057L6BA	PST077L6BA
Fan Blades	Evaporator	5140C	1	1	2	2	1	1	2	2	1	1	2	2			
	Condenser	22901901	2	2	3	3	2	2	3	3	2	2	3	3			
Fan Motors	Evaporator, PSC – 208/230 volt	25308601	1	1	2	2	1	1	2	2	1	1	2	2			
	Evaporator, EC – 208/230 volt	25317701	1	1	2	2	1	1	2	2	1	1	2	2			
	Condenser – 208/230 volt	25308301	2	2	3	3	2	2	3	3	2	2	3	3			
	Evaporator fan motor bracket	23103301	1	1	2	2	1	1	2	2	1	1	2	2			
	Condenser fan motor bracket	4000104	2	2	3	3	2	2	3	3	2	2	3	3			
Contactors	20A, 230 volt	34915200	1	1	1	1	1	1	1	1	1		1	1			
Temperature Control	Temperature control - 208/230 volt	21301001	1	1	1	1	1	1	1	1	1	1	1	1			
	Temperature control - 115 volt	21301101	1	1	1	1	1	1	1	1	1	1	1	1			
	Heater limit thermostat	5708L					1	1	1	1	1	1	1	1			
Defrost Heaters	Defrost heaters – 230 volt	4312F					3	3			3	3					
	Defrost heaters – 230 volt	4342L							3	3			3	3			
Outdoor Parts	Fan pressure control	28917301	1	1	1	1	1	1	1	1	1	1	1	1			
	Fan temperature control	5521R	1	1	1	1	1	1	1	1	1	1	1	1			
	Drain line heater	24753401	1	1	1	1	1	1	1	1	1	1	1	1			
	Drain line heater thermostat	28917401	1	1	1	1	1	1	1	1	1	1	1	1			

[^] H for PSC, E for EC motor on evaporator section only.

*PSC motor option (H designation on end of model name): part 25307801=25308601, part 25307701=25308501, part 25303201=25399201, part 25300101=25308501. Contact InterLink Parts at 800-686-7278.



For more information on Bohn refrigeration products, contact your sales representative or visit us at www.thecoldstandard.com.

A Brand of Heatcraft Refrigeration Products LLC
2175 West Park Place Blvd. • Stone Mountain, GA • 30087
(800) 537-7775

www.thecoldstandard.com

BOHN

Since product improvement is a continuing effort, we reserve the right to make changes in specifications without notice.

BN-PROTB-0812 | Version 000

Copeland®

CONDENSING UNIT CATALOG



EMERSON™
Climate Technologies



COPELAND CONDENSING UNIT CATALOG

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ADDITIONAL INFORMATION	Form Number
Install Confidence With Copeland Condensing Units	2004DS-166R1
SystemPro Air-Cooled Units	2005DS-9R1
Refrigerant & Lubricant Guidelines	93-11R10
P/T Chart	2003FC-75
EK Filter Driers	2004FC-78
Copeland Electrical Handbook	6400
HMI Moisture Indicator	2003FC-27
Refrigerant Solenoid Valves	2004FC-175

Register For Online Product Information at emersonclimatecontractor.com

SystemPro™ Air-Cooled Condensing Units

Capacity Data

HIGH/MED TEMP Model	Bill of Material	Ref.	H.P.	Capacity (BTU/hr) at 90°F Ambient Evaporator Temp (°F)									
				0	+10	+15	+20	+25	+30	+35	+40	+45	
MBFS-0017-SAA	106	12	1/6		770	870	980	1090	1200	1320	1450	1580	
M2FH-0017-SAA	106	134a		800	910	1030	1150	1280	1410	1560	1710		
MBFS-0020-SAA	106	12	1/5		930	1030	1140	1260	1390	1520	1650	1800	
M2FH-0020-IAA	106	134a		950	1070	1200	1330	1470	1620	1770	1930		
MMFH-0022-IAA	106	22		1250	1380	1530	1680	1840	2010	2180	2360		
M4FH-0022-IAA	106	404A		1340	1460	1590	1720	1860	2010	2160	2310		
MBFS-0024-SAA	106	12	1/4		1270	1420	1570	1730	1890	2070	2250	2440	
M2FH-0024-SAA	106	134a		1310	1470	1640	1810	2000	2190	2390	2600		
MBFH-A026-IAA	105, 109, 001	12		1480	1640	1810	1980	2160	2350	2550	2860		
M2FH-0026-IAA	105, 109, 001	134a		1530	1700	1890	2080	2280	2490	2710	2940		
MCFH-0027-IAA	105, 109, 001	22		1910	2130	2360	2600	2850	3110	3380	3660		
M4FH-0025-IAA	109, 201	404A		1890	2060	2240	2430	2620	2820	3030	3240		
MBFS-0033-IAA	105, 109, 201	12		1/3		1820	2040	2270	2510	2770	3030	3310	3600
M2FH-A033-IAA, IAV	105, 109, 201	134a			1870	2110	2360	2620	2900	3190	3500	3820	
MCFH-0036-IAA	105, 109, 201	22	2270		2550	2830	3140	3460	3790	4140	4500		
M4FH-A036-IAA, IAV	105, 109, 201	404A	2550		2810	3090	3370	3670	3990	4310	4650		
MBFH-0049-IAA	201	12	1/2		2560	2850	3150	3460	3790	4140	4500	4870	
M2FH-0049-IAA, IAV	105, 109, 201	134a		2610	2920	3250	3600	3960	4340	4740	5150		
MCFH-0049-CAA, CAV	105, 109, 201	22		3090	3460	3840	4250	4680	5130	5600	6090		
MBFH-0050-IAA	109, 201	12		2860	3230	3620	4030	4470	4920	5410	5910		
M2FH-0050-IAA, IAV	105, 109, 201	134a		2950	3350	3780	4230	4710	5210	5740	6290		
FBAM-B050-IAA, IAV	201	12		3660	4030	4420	4840						
FJAF-A056-IAA, IAV	109, 201	404A		2990	3940	4450	5010	5630					
M2FH-0056-IAA, IAV	105, 109, 201	134a		3030	3240	3680	4140	4630	5150	5690	6270		
MCFH-0056-IAA, IAV	105, 109, 201	22		3610	4020	4470	4950	5480	6070	6720	7440		
M4FH-0050-CAA, CAV	105, 109, 201	404A		3320	3660	4010	4380	4770	5180	5600	6040		
FBAH-B075-IAA, IAV	001	12	3/4		4470	4950	-5480	6030	6570	7330	8190	9070	
FTAH-B074-IAA, IAV	201	134a		3890	4380	4900	5450	6050	6710	7430	8220		
FBAM-A075-IAA, IAV	001	12		4580	5040	5570	6160						
FTAM-A075-IAA, IAV	001	134a		4260	4920	5650	6450						
F3AH-A078-IAA, IAV	001	22		4480	5120	5760	6450	7130	7870	8660	9440		
FJAF-B078-CAA, CAV	001	404A		3900	4970	5540	6130	6740					
FBAH-B100-CAV	001	12	1		5200	5800	6490	7200	8120	9040	9940	1150	
FTAH-A101-CFV, TFC, TFD	001	134a		4990	5860	6820	7770	8780	9790	10800	1800		
F3AH-A100-CAV	001	22		5260	5960	6700	7480						
FJAM-A106-CAV	001	404A		5080	6380	7070	7780	8530	9220	10200	11200		
F3AM-A105-CFV, TFC	001	22		6530	7530	8530	9590						
FTAH-A125-CFV, TFC, TFD	001	134a		7170	8420	9770	11200	12800	14400	16200	21100		
FJAM-A125-CFV, TFC	001	404A	5390	6840	7620	8450	9340						
FJAM-A126-CAV, TFC	001	404A	6350	7940	8770	9640	10500						
FTAH-A150-CFV, TFC, TFD	001	134a	1 1/2			10000	11600	13300	15100	17000	19000	26900	
F3AD-B151-CFV, TFC, TFD	020	22		7590	8800	10100	11500	13000	14500	16100	23900		
FJAM-A150-CFV, TFC, TFD	001	404A		6860	9100	10200	11400	12500					
FTAH-A201-CFV, TFC, TFD	001	134a	2		10300	12200	14200	16400	18800	21300	24000	26900	
F3AD-B201-CFV, TFC, TFD	015, 020	22		10100	11800	13500	15400	17300	19400	21600	23900		
FJAM-A200-CFV, TFC	001	404A		8770	11600	13000	14500	16100					
FJAM-A225-CFV, TFC, TFD	001	404A	2 1/4	10400	13400	14900	16400	17900					
F3AD-B225-CFV, TFC, TFD	015, 020	22		11400	13100	15100	17100	19300	21500	23900	26400		
F3AD-B301-CFV, TFC, TFD	015, 020	22	3		17000	19500	22000	24600	27400	30300	33300	36500	
FJAM-A300-CFV, TFC, TFD	001	404A		13100	17300	19500	21600	23800					
FTAH-A35Z-CFV, TFC, TFD	015	134a		19500	21800	24400	27000	29800	32700	35800	39000		
F3AD-B325-CFV, TFC, TFD	015, 020	22	3 1/4		18300	20900	23600	26500	29400	32500	35900	39400	
FJAM-A325-CFV, TFC, TFD	001	404A		14300	18500	20800	23300	26100					
F3AD-B401-CFV, TFC, TFD	015, 020	22	4		25900	29500	33400	37600	41900	46500	51200	56200	
FJAM-B400-CFV, TFC, TFD	001	404A		20700	26900	30300	33900	37800					
F3AD-A501-CFV, TFC, TFD	010	22	5		29800	34000	38200	42700	47400	52400	57500	63000	
FJAM-B500-CFV, TFC	020	404A		23200	30400	34100	37700	41200					

Bolded BOM - In Stock

Capacities are at 60 Hertz with 5°F subcooling.
 HT models are rated at 65° F return gas temperature
 MT models are rated at 40° F return gas temperature

SystemPro™ Air-Cooled Condensing Units

Capacity Data

Capacity (Btu/hr) at 100°F Ambient Evaporator Temp (°F)									Capacity (Btu/hr) at 110°F Ambient Evaporator Temp (°F)								
0	+10	+15	+20	+25	+30	+35	+40	+45	0	+10	+15	+20	+25	+30	+35	+40	+45
720	810	900	1010	1120	1240	1360	1490		660	740	810	910	1020	1130	1250	1380	
730	830	930	1050	1170	1300	1440	1580		660	760	840	950	1070	1190	1320	1460	
880	990	1090	1210	1320	1450	1580	1700		810	910	1010	1130	1240	1360	1480	1590	
890	1010	1120	1250	1380	1520	1670	1810		820	930	1040	1170	1290	1430	1560	1690	
1140	1270	1400	1550	1700	1870	2030	2190		1050	1170	1300	1440	1590	1740	1890		
1230	1340	1460	1590	1720	1870	2010	2150		1130	1230	1350	1480	1610	1740			
1210	1360	1480	1640	1790	1950	2120	2280		1120	1260	1380	1530	1670	1820			
1230	1390	1530	1710	1870	2050	2230	2420		1140	1290	1420	1590	1740	1920			
1390	1540	1660	1820	1990	2190	2390	2560		1310	1430	1530	1670	1820	2000			
1400	1570	1710	1890	2080	2300	2520	2710		1330	1470	1570	1740	1910	2100			
1710	1930	2150	2380	2610	2860	3130	3400		1540	1750	1970	2180	2410				
1700	1870	2030	2220	2400	2620	2840	3030		1530	1690	1840	2020	2190				
1670	1880	2090	2330	2550	2820	3060	3290		1500	1700	1910	2130	2340	2590			
1690	1920	2150	2420	2670	2970	3230	3490		1520	1740	1970	2220	2440	2720			
2080	2330	2600	2890	3180	3500	3830	4170		1880	2120	2370	2640	2930	3230	3550		
2330	2580	2840	3100	3370	3660	3960	4290		2110	2340	2590	2840	3100	3390			
2370	2640	2930	3240	3540	3830	4200	4560		2160	2430	2700	3000	3290	3560			
2410	2710	3020	3350	3690	4050	4430	4800		2210	2490	2790	3100	3430				
2910	3260	3630	4010	4400	4810	5250	5720		2690	3020	3370	3750	4150	4550			
2690	3100	3400	3710	4180	4590	5050	5600		2440	2830	3120	3430	3880	4270			
2730	3170	3500	3860	4360	4820	5340	5940		2470	2890	3210	3560	4060				
2920	3610	3990	4410	4860					2680	3330	3700	4090					
2570	3340	3790	4920	4840					2190	2790	3160	3580	4070				
3010	3430	3880	4220	4830	5280	5820	6480		2750	3120	3520	3870	4450	4920			
3270	3660	4070	4520	5020	5580	6200	6880		2960	3320	3710	4130	4610	5140	5730		
2900	3220	3560	3910	4280	4680	5080	5520		2660	2940	3240	3530	3850	4190			
3800	4240	4680	5250	5820	6460	7100	7880					4170	4710	5240	5830		
3420	3870	4350	4860	5420	6030	6700	7440		3030	3450	3880	4350	4850	5420			
4140	4570	5050	5600						3870	4260	4700	5210					
3870	4430	5070	5780						3520	3940	4460	5070					
4020	4620	5220	5860	6510	7190	7930	8670		3540	4100	4660	5270	5870	6520	7200	7890	
3380	4360	4870	5400	5950					2880	3760	4220	4690	5180				
4110	4700	5230	5760	6520	7270	8150	9020		3780	4300	4790	5280	5980	6670			
4330	5160	6060	6970	7930	8900	9850	10800		3680	4450	5310	6160	7080	8000			
4740	5440	6140	6910	7670	8490	9360	10200		4230	4870	5520	6210	6900	7650			
4490	5680	6300	6940	7610					3900	4950	5500	6070	6660				
5750	6700	7640	8650						3050	4940	5830	6720	7670				
6190	7360	8620	9970	11400	12900	14600	16300		5230	6330	7500	8750	10100	11500	13000	14500	
4770	6070	6750	7470	8250					4070	5230	5820	6440	7100				
5610	7060	7810	8600	9420					4850	6150	6820	7530	8260				
7370	8760	10200	11800	13500	15200	17100	19000		6220	7520	8900	10400	11900	13500			
6490	7630	8850	10200	11500	13000	14500	16100		5400	6470	7620	8850	10200	11500			
5780	7820	8850	9890	10900					4680	6520	7450	8380	9310				
8880	10700	12600	14600	16800	19200	21700	24300		7480	9150	10900	12800	14900	17100	19400	21800	
8930	10500	12200	13900	15800	17800	19900	22000		7780	9270	10800	12500	14300	16100	18100		
7500	10100	11400	12800	14200					6230	8530	9740	11000	12300				
9060	11700	13100	14500	15800					7730	10100	11300	12500	13700				
10100	11800	13600	15500	17600	19700	22000	24300		8970	10500	12200	14000	15900	17900			
15100	17400	19900	22400	25000	27700	30600	33600		13100	15400	17800	20200	22700	25300	28000		
11200	15000	17000	18900	20900					9410	12800	14500	16300	18000				
18200	20400	22700	25200	27800	30500	33400	36500		19000	21100	23300	25700	28300	31000			
16500	19000	21600	24200	27000	29900	32900	36200		14800	17200	19600	22000	24600	27200			
12200	16000	18100	20400	22900					10100	13500	15400	17500	19800				
23500	27000	30600	34500	38600	42800	47300	51800		21100	24400	27800	31400	35200	39200	43300	47500	
18100	23700	26800	30000	33500					15600	20500	23200	26100	29300				
28000	32100	36300	40600	45100	49700	54700	59600		24900	28900	33000	37100	41400	45800	50500	55200	
20400	27000	30300	33600	36700					17700	23600	26600	29500	32300				

Capacities are at 60 Hertz with 5°F subcooling.
 HT models are rated at 65° F return gas temperature
 MT models are rated at 40° F return gas temperature

SystemPro™ Air-Cooled Condensing Units

Physical/Electrical Data

HIGH/MED TEMP Model	Comp Model	Oil Type	Overall Dimensions (in.)			Connecting Lines		Minimum Circuit Ampacity- Max Fuse Size				Pump Down Cap. (lbs)	Ship Wt. (lbs)
			L	W	H	Suction	Liquid	115-1-60	230-1-60	230-3-60	460-3-60		
MBFS-0017-SAA M2FH-0017-SAA	ARB13C3 ARB13C3E	AB POE	13.8 13.8	11.1 11.8	9.7 9.7	3/8 F 3/8 F	1/4 F 1/4 F	4.2 - 15 4.3 - 15					33 33
MBFS-0020-SAA M2FH-0020-IAA MMFH-0022-IAA M4FH-0022-IAA	ARB17C3 ARB17C3E ARB21C3 ASB12C3E	AB POE AB POE	13.8 13.8 13.8 13.8	11.1 11.3 11.4 11.4	9.7 9.7 9.7 9.7	3/8 F 3/8 F 3/8 F 3/8 F	1/4 F 1/4 F 1/4 F 1/4 F	5.5 - 15 5.2 - 15 6.5 - 15 7.3 - 15					35 41 37 37
MBFS-0024-SAA M2FH-0024-SAA MBFH-A026-IAA M2FH-0026-IAA MCFH-0036-IAA M4FH-0025-IAA	ARE25C3 ARE25C3E ARE27C3 ARE27C3E ARE43C3 ASE19C3E	AB POE AB POE AB POE	13.8 13.8 13.8 13.8 16.2 13.8	11.8 11.8 11.8 11.8 12.7 11.8	9.7 9.7 9.7 9.7 11.7 9.7	3/8 F 3/8 F 3/8 F 3/8 F 3/8 F 3/8 F	1/4 F 1/4 F 1/4 F 1/4 F 1/4 F 1/4 F	6.3 - 15 6.9 - 15 6.9 - 15 6.8 - 15 9.1 - 15 10.7 - 15				2.5 2.5 2.5 2.2	36 36 42 41 38 43
MBFS-0033-IAA M2FH-A033-IAA, IAV MCFH-0036-IAA M4FH-A036-IAA, IAV	ARE37C3 ARE37C3E ARE43C3 ASE24C3E	AB POE AB POE	13.8 13.8 16.2 16.1	11.8 11.3 13.1 12.7	9.7 9.7 11.8 11.8	3/8 F 3/8 F 3/8 F 3/8 F	1/4 F 1/4 F 1/4 F 1/4 F	9.7 - 15 9.9 - 15 9.7 - 15 8.4 - 15	4.9 - 15			2.9 2.5 3.6 3.3	36 43 49 44
MBFH-0049-IAA M2FH-0049-IAA, IAV MCFH-0049-CAA, CAV MBFH-0050-IAA M2FH-0050-IAA, IAV FBAM-B050-IAA, IAV FJAF-A056-IAA, IAV M2FH-0056-IAA, IAV MCFH-0056-IAA, IAV M4FH-0050-CAA, CAV	ART51C1 ART51C1E ARE59C3A ART62C1 ART62C1E RS40C2 RS43C2E ART64C1E ART69C1 ASE32C3E	AB POE AB AB POE AB POE POE AB POE	16.2 16.2 16.1 17.9 16.2 24.0 17.5 17.9 17.4 16.1	13.1 12.7 13.1 13.1 12.7 16.9 14.3 14.4 14.4 12.7	11.8 11.8 11.8 11.8 11.8 12.9 12.1 11.8 11.8 11.8	3/8 F 3/8 F 3/8 F 3/8 F 3/8 F 5/8 F 5/8 F 1/2 F 3/8 F 3/8 F	1/4 F 1/4 F 1/4 F 1/4 F 1/4 F 3/8 F 1/4 F 1/4 F 1/4 F 1/4 F	12.5 - 20 12.5 - 20 10.9 - 15 13.8 - 20 13.6 - 20 13.5 - 20 14.3 - 20 15.5 - 20 18.0 - 25 12.3 - 20	6.85 - 15 5.6 - 15			3.9 3.7 4 4.6 4.1 4.1 4.3 4.3 4.1 3.7	56 56 51 51 58 67 78 66 69 50
FBAH-B075-IAA, IAV FTAH-B074-IAA, IAV FBAM-A075-IAA, IAV FTAM-A075-IAA, IAV F3AH-A078-IAA, IAV FJAF-B078-CAA, CAV	RR81C2 RR81C2E RS54C2 RS54C2E RS47C2 RS55C2E	AB POE AB POE MIN POE	24.0 17.4 24 24 24 24	16.9 14.4 16.9 16.9 16.9 16.9	12.9 11.8 13.1 13.1 13.1 13.1	5/8 F 5/8 F 5/8 F 5/8 F 5/8 F 5/8 F	3/8 F 3/8 F 3/8 F 3/8 F 3/8 F 3/8 F	21.0 - 30 20.7 - 30 16.8 - 25 16.8 - 25 19.9 - 30 18.5 - 25	12.4 - 20 12.3 - 20 9.7 - 15 9.7 - 15 10.1 - 15 8.8 - 15			8.7 5.1 8.7 7.9 6.1 7.2	106 79 106 95 101 105
FBAH-B100-CAV FTAH-A101-CFV, TFC, TFD F3AH-A100-CAV FJAM-A106-CAV F3AM-A105-CFV, TFC	RR10K2 CS10K6E RRG4-0100 RS64C2E RS70C1	AB POE MIN POE MIN	24 24 24 24 24	16.9 16.8 16.9 18.3 18.4	12.9 15.9 13.1 16.2 16.2	5/8 F 5/8 F 5/8 F 7/8 S 7/8 S	3/8 F 3/8 F 3/8 F 3/8 F 3/8 F	11.5 - 15	14.8 - 20 9.5 - 15 12.5 - 15 11.7 - 15	10.5 - 15	5.2 - 15	9.2 8.4 8.3 7.9 14.7	112 130 107 135 98
FTAH-A125-CFV, TFC, TFD FJAM-A125-CFV, TFC FJAM-A126-CAV, TFC	CS14K6E RS70C1E RS80C2E	POE POE POE	24.0 24.0 24.0	18.4 18.3 18.3	16.3 16.2 16.2	7/8 S 7/8 S 7/8 S	3/8 F 3/8 F 3/8 F		18.4 - 25 11.7 - 15 14.9 - 20	14.3 - 20 8.8 - 15 10.9 - 15	7.5 - 15	9.2 12.8 12.8	140 124 133
FTAH-A150-CFV, TFC, TFD F3AD-B151-CFV, TFC, TFD FJAM-A150-CFV, TFC, TFD	CS18K6E CR18KQ CS10K6E	POE MIN POE	24.0 24.0 24.0	18.4 18.3 18.3	16.3 16.9 16.2	7/8 S 7/8 S 7/8 S	3/8 F 3/8 S 3/8 F		21.4 - 35 14.2 - 20 16.5 - 20	15.9 - 20 10.4 - 15 12.2 - 15	7.5 - 15 5.4 - 15 6.1 - 15	9.2 9.1 12.8	153 132 144
FTAH-A201-CFV, TFC, TFD F3AD-B201-CFV, TFC, TFD FJAM-A200-CFV, TFC	CS20K6E CR24KQ CS12K6E	POE MIN POE	25.2 25.0 25.2	34 34 34.1	18.9 19 18.9	7/8 S 7/8 S 7/8 S	3/8 F 3/8 S 3/8 F		29.1 - 40 19.2 - 30 15.9 - 20	20.0 - 25 11.7 - 15 11.7 - 15	9.6 - 15 6.1 - 15	16.7 17.8 14.3	140 180 170
FJAM-A225-CFV, TFC, TFD F3AD-B225-CFV, TFC, TFD	CS14K6E CR28KQ	POE MIN	25.1 25.1	34.1 34.1	18.9 19	7/8 S 7/8 S	3/8 F 3/8 S		17.8 - 25 21.1 - 30	13.7 - 20 13.3 - 15	7.4 - 15 7.0 - 15	14.3 17.8	202 210
F3AD-B301-CFV, TFC, TFD FJAM-A300-CFV, TFC, TFD FTAH-A35Z-CFV- TFC, TFD	CR37KQ CS18K6E ZB38KCE	MIN POE POE	25.2 25.1 25.2	34.1 34.1 34	19.1 19.4 19	1-1/8 S 1-1/8 S 1-1/8 S	3/8 S 3/8 S 3/8 S		28.9 - 40 25.8 - 35 41.7 - 60	19.7 - 20 18.8 - 20 30.4 - 45	10.2 - 15 9.1 - 15 15.2 - 20	20 16.3 21	239 217 250
F3AD-B325-CFV, TFC, TFD FJAM-A325-CFV, TFC, TFD	CR41KQ CS20K6E	MIN POE	25.2 25.1	34.1 34.1	18.9 18.9	1-1/8 S 1-1/8 S	3/8 S 3/8 F		30.1 - 40 29.1 - 40	22.2 - 25 20.1 - 25	10.6 - 15 9.6 - 15	20 16.3	239 224
F3AD-B401-CFV, TFC, TFD FJAM-B400-CFV, TFC, TFD	CR53KQ CS27K6E	MIN POE	28.2 28.2	44.1 44.1	26.9 26.9	1-1/8 S 1-1/8 S	1/2 S 1/2 F		39.9 - 60 33.5 - 50	26.1 - 40 23.1 - 35	13.8 - 20 12.0 - 15	31.5 27.3	306 373
F3AD-A501-CFV, TFC, TFD FJAM-B500-CFV, TFC	CRN5-0500 CS33K3E	MIN POE	28.6 28.2	44.1 44.1	26.9 26.8	1-1/8 S 1-1/8 S	1/2 F 1/2 S		46.4 - 70 42.0 - 60	30.3 - 45 27.0 - 40	14.4 - 20	31.5 27.3	337 295

F - Flare
S - Sweat

SystemPro™ Air-Cooled Condensing Units

Capacity Data

	LOW TEMP Model	BOM	Ref.	H.P.	Capacity (Btu/hr) at °F Ambient Evaporator Temp (°F)					
					-30	-25	-20	-15	-10	0
90°	MBFS-0017-SAA	106	12	1/6	380	450	510	580	720	
	MBFS-0020-SAA	106	12	1/5	470	540	620	700	870	
	M2FL-0023-IAA	106	134a	1/4	440	550	630	740	960	
	MBFS-0024-SAA	106	12	1/4	640	750	850	960	1180	
	M2FL-A025-IAA	105, 109, 001	134a	1/4	720	820	940	1070	1370	
	MBFS-0033-IAA	105, 109, 201	12	1/3	860	990	1130	1270	1550	
	MBFL-0034-IAA	105, 109, 001	12	1/3	1160	1330	1510	1700	2080	
	M2FL-B033-IAA	105, 109, 001	134a	1/3	850	960	1040	1240	1590	
	M4FL-0033-IAA	105, 109, 001	404A	1/3	860	1040	1210	1390	1750	
	M2FL-0040-IAA	105, 109, 001	134a	1/3	920	1120	1320	1540	2010	
	M4FL-0040-IAA	105, 109, 201	404A	1/3	1320	1550	1790	2040	2560	
	MBFL-0050-IAA	201	12	1/2	1620	1780	2140	2400	2980	
	FTAL-A050-IAA, IAV	105, 109, 201	134a	1/2	1280	1590	1910	2260	2980	
	M4FL-0051-IAA	105, 109, 201	404A	1/2	1460	1760	2080	2430	3160	
	M4FL-0067-CFA, CFV	105, 109, 201	404A	3/4	2190	2520	2890	3290	4200	
	FJAF-A075-CAA, IAV	001	404A	3/4	2110	2560	3020	3490	4400	
	FJAL-A101-CAV, TFC	001	404A	1		3160	3680	4240	4850	6170
	FJAL-A103-CFV, TFC	001	404A	1	2380	2950	3570	4230	4950	6500
FJAL-B200-CFV, TFC, TFD	001	404A	2	4100	5040	6060	7130	8260	10500	
FJAL-A225-CFV, TFC, TFD	001	404A	2 1/4	4350	5380	6510	7730	9010	11600	
FJAL-B301-CFV, TFC, TFD	010	404A	3	6330	7830	9470	11200	13100	16900	
FJAL-A390-CFV, TFC, TFD	010	404A	4	8700	10400	12200	14000	16000	20000	
100°	MBFS-0017-SAA	106	12	1/6	350	410	470	540	670	
	MBFS-0020-SAA	106	12	1/5	430	500	580	650	810	
	M2FL-0023-IAA	106	134a	1/4	420	510	600	710	920	
	MBFS-0024-SAA	106	12	1/4	590	690	790	890	1100	
	M2FL-A025-IAA	105, 109, 001	134a	1/4	670	760	870	1000	1280	
	MBFS-0033-IAA	105, 109, 201	12	1/3	790	920	1050	1180	1450	
	MBFL-0034-IAA	105, 109, 001	12	1/3	1050	1220	1390	1570	1920	
	M2FL-B033-IAA	105, 109, 001	134a	1/3	770	880	1000	1150	1480	
	M4FL-0033-IAA	105, 109, 001	404A	1/3	690	850	1010	1180	1530	
	M2FL-0040-IAA	105, 109, 001	134a	1/3	780	960	1150	1350	1810	
	M4FL-0040-IAA	105, 109, 201	404A	1/3	1100	1310	1530	1770	2240	
	MBFL-0050-IAA	201	12	1/2	1430	1690	1950	2220	2740	
	FTAL-A050-IAA, IAV	105, 109, 201	134a	1/2	1050	1340	1640	1970	2660	
	M4FL-0051-IAA	105, 109, 201	404A	1/2	1240	1500	1790	2100	2770	
	M4FL-0067-CFA, CFV	105, 109, 201	404A	1/4	1960	2260	2590	2960	3770	
	FJAF-A075-CAA, IAV	001	404A	1/4	1770	2200	2620	3060	3920	
	FJAL-A101-CAV, TFC	001	404A	1		2720	3200	3720	4270	5470
	FJAL-A103-CFV, TFC	001	404A	1	1930	2430	2970	3550	4180	5540
FJAL-B200-CFV, TFC, TFD	001	404A	2	3410	4250	5170	6140	7160	9170	
FJAL-A225-CFV, TFC, TFD	001	404A	2 1/4	3610	4540	5560	6670	7840	10200	
FJAL-B301-CFV, TFC, TFD	010	404A	3	5370	6700	8170	9750	11400	14900	
FJAL-A390-CFV, TFC, TFD	010	404A	4	7280	8890	10500	12200	14000	17600	
110°	MBFS-0017-SAA	106	12	1/6	320	380	430	500	620	
	MBFS-0020-SAA	106	12	1/5	390	460	530	600	760	
	M2FL-0023-IAA	106	134a	1/4	370	470	550	650	870	
	MBFS-0024-SAA	106	12	1/4	530	630	720	830	1030	
	M2FL-A025-IAA	105, 109, 001	134a	1/4		700	800	920	1190	
	MBFS-0033-IAA	105, 109, 201	12	1/3	710	840	960	1100	1370	
	MBFL-0034-IAA	105, 109, 001	12	1/3	960	1120	1280	1430	1760	
	M2FL-B033-IAA	105, 109, 001	134a	1/3		800	920	1050	1360	
	M4FL-0033-IAA	105, 109, 001	404A	1/3	520	670	830	990	1320	
	M2FL-0040-IAA	105, 109, 001	134a	1/3	600	780	970	1170	1630	
	M4FL-0040-IAA	105, 109, 201	404A	1/3	850	1060	1280	1500	1970	
	MBFL-0050-IAA	201	12	1/2	1270	1510	1750	1990	2480	
	FTAL-A050-IAA, IAV	105, 109, 201	134a	1/2				1700	2350	
	M4FL-0051-IAA	105, 109, 201	404A	1/2	970	1210	1480	1770	2410	
	M4FL-0067-CFA, CFV	105, 109, 201	404A	3/4		2000	2310	2650	3410	
	FJAF-A075-CAA, IAV	010	404A	3/4		1840	2230	2630	3400	
	FJAL-A101-CAV, TFC	001	404A	1		2710	3180	3680	4740	
	FJAL-A103-CFV, TFC	001	404A	1	1510	1920	2370	2850	3380	4540
FJAL-B200-CFV, TFC, TFD	001	404A	2		3520	4310	5160	6060	7840	
FJAL-A225-CFV, TFC, TFD	001	404A	2 1/4	2970	3760	4660	5640	6680	8840	
FJAL-B301-CFV, TFC, TFD	010	404A	3	4470	5620	6910	8310	9820	12900	
FJAL-A390-CFV, TFC, TFD	010	404A	4	5900	7400	8910	10400	12000	15300	

LT models are rated at 40° F return gas temperature

Capacities are at 60 Hertz with 5° subcooling.

SystemPro™ Air-Cooled Condensing Units

Cross Reference Guide

	Compressor		Copeland Condensing Unit	Volt	BOM	HP	Btu/hr	Dimensions (in.)			
	Copeland	Tecumseh						L	W	H	
HIGH Temperature (+45°F Evap, 90°F Ambient)											
R-12	ARB13C3	JRN1-0025 JRE1-0033 JRL4-0050	AEA3414AXA	MBFS-0017	SAA	-106	1/6	1,580	13.8	11.1	9.7
	ARB17C3		AEA3417AXA	MBFS-0020	SAA	-106	1/5	1,800	13.8	11.1	9.7
	ARE25C3		AEA3425AXA	MBFS-0024	SAA	-106	1/4	2,440	13.8	11.8	9.7
	ARE27C3		AEA4430AXA	MBFH-A026	IAA	-109	1/4	2,860	13.8	11.8	9.7
	ARE37C3		AEA4440AXA	MBFS-0033	IAA	-109	1/3	3,600	13.8	11.8	9.7
	ART51C1		AEA4448AXA	MBFH-0049	IAA	-201	1/2	4,870	16.2	13.1	11.8
	ART62C1		AJA4461AXA	MBFH-0050	IAA	-109	1/2	5,910	17.9	13.1	11.8
R-22	ARB21C3	JRS4-0050 JRE1-0050 JRF4-0050	AEA9415EXA	MMFH-0022	IAA	-106	1/5	2,360	13.8	11.4	9.7
	ARE36C3		AEA9422EXA	MCFH-0027	IAA	-201	1/4	3,660	13.8	11.3	9.7
	ARE43C3		AEA9422EXA	MCFH-0036	IAA	-201	1/3	4,500	16.2	12.7	11.7
	ARE59C3		AKA9428EXA	MCFH-0049	CAA	-201	1/2	6,090	16.1	13.1	11.8
	ART69C1		AKA9442EXA	MCFH-0056	IAA	-201	1/2+	7,440	17.4	14.4	11.8
R-134a	ARB13C3E	JR26C1E JR36C1E JR53C1E	AEA3414YXA	M2FH-0017	SAA	-106	1/6	1,710	13.8	11.3	9.7
	ARB17C3E		AEA3417YXA	M2FH-0020	SAA	-106	1/5	1,930	13.8	11.3	9.7
	ARE25C3E		AEA3425YXA	M2FH-0024	SAA	-106	1/4	2,600	13.8	11.8	9.7
	ARE27C3E		AEA4430YXA	M2FH-0026	IAA	-001	1/4+	2,940	13.8	11.8	9.7
	ARE37C3E		AEA4440YXA	M2FH-A033	IAA	-201	1/3	3,820	13.8	11.3	9.7
	ART51C1E		AEA4448YXA/D	M2FH-0049	IAA/IAV	-201	1/2-	5,150	16.2	12.7	11.8
	ART62C1E		AKA4460YXA/D	M2FH-0050	IAA/IAV	-201	1/2	6,290	16.2	12.7	11.8
	ART64C1E		AKA4476YXA/D	M2FH-0056	IAA/IAV	-201	1/2+	6,870	17.9	14.3	11.8
R-404A	ASB12C3E	JS19C1E JS25C1E JS35C1E	AEA9415ZXA	M4FH-0022	IAA	-106	1/5	2,310	13.8	11.4	9.7
	ASE19C3E		AEA9422ZXA	M4FH-0025	IAA	-201	1/4	3,240	13.8	11.8	9.7
	ASE24C3E		AKA9427ZXA/D	M4FH-A036	IAA/IAV	-201	1/3	4,650	16.1	12.7	11.8
	ASE32C3E		AKA9438ZXA/D	M4FH-0050	CAA/CAV	-201	1/2	6,040	16.1	12.7	11.8
LOW Temperature (-10°F Evap, 90°F Ambient)											
R-12	ARB13C3	JFC1-0025 JFH1-0033 JFP1-0050	AEA1343AXA	MBFS-0017	SAA	-106	1/6	580	13.8	11.1	9.7
	ARB17C3		AEA1360AXA	MBFS-0020	SAA	-106	1/5	700	13.8	11.1	9.7
	ARE25C3		AEA3425AXA	MBFS-0024	SAA	-106	1/4	960	13.8	11.8	9.7
	ARE37C3		AEA2410AXA	MBFS-0033	IAA	-109	1/3	1,270	13.8	11.8	9.7
	AFT12C1		AEA2415AXA	MBFL-0034	IAA	-001	1/3+	1,700	16.0	12.2	9.7
	AFJ23C1		AJA2425AXA	MBFL-0050	IAA	-201	1/2	2,400	16.2	13.1	11.8
R-134a	AFB05C3E	JF11C1E	AEA1360YXA	M2FL-0023	IAA	-106	1/5	740	13.8	11.8	9.7
	AFE10C3E		AEA2410YXA	M2FL-A025	IAA	-105	1/4	1,070	13.8	11.8	9.7
	AFE12C3E		AEA2413YXA	M2FL-B033	IAA	-001	1/3	1,240	13.8	12.4	9.7
	AFT12C1E		AEA2413YXA	M2FL-0040	IAA	-109	1/3+	1,540	16.7	12.6	9.7
	RF18C2E		AJA2419YXA/D	FTAL-A050	IAA/IAV	-201	1/2	2,260	16.0	13.3	11.9
R-404A	AFB09C3E		AEA2410ZXA	M4FL-0025	IAA	-001	1/4	920	13.8	12.0	9.7
	AFE11C3E		AEA2380ZXA	M4FL-0033	IAA	-001	1/3	1,390	13.8	12.0	9.7
	AFE11C3E		AEA2411ZXA	M4FL-0033	IAA	-001	1/3	1,390	13.8	12.0	9.7
	AFE13C3E		AHA2419ZXA	M4FL-0040	IAA	-201	1/3+	2,040	16.2	13.1	11.8
	AFE13C3E		AJA2419ZXA	M4FL-0040	IAA	-201	1/3+	2,040	16.2	13.1	11.8
	AFT18C1E		AJA2425ZXA	M4FL-0051	IAA	-201	1/2	2,430	17.4	13.1	11.8
	AFT26C1E		AJA2425ZXA/D	M4FL-0067	CFA/CFV	-201	1/2+	3,290	18.1	14.4	11.8

SystemPro™ Air-Cooled Condensing Units

To select a condensing unit determine:

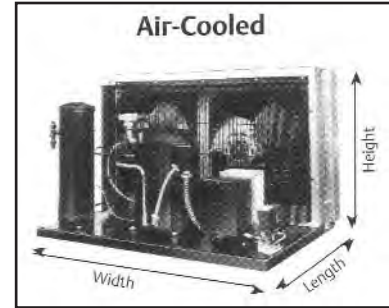
- (1) Model
- (2) Voltage
- (3) Bill of Material (BOM)

Example:

M4FH-0025 -IAA -201
 Model voltage BOM
 1+2+3 = complete model number

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		Fan Cycle Control	Fan Guard	UL/UR
	Suction Valve	Suction Accumulator	Base Valve	Receiver w/Valve	Power Cord	BX Conduit			
105	•		•		•				UR
106	•				•				UR
109	•			•	•				UR
201	•			•				•	UR*
001	•			•		•		•	UL
010	•	•		•		•	•	•	UL
015	•	•		•		•	•	•	UL
020	•			•		•		•	UL

*These recognized models are identical to listed models less pressure control. Need for the control is to be evaluated in the end use application.

Control Data*

Horsepower	Voltage	Bill of Material	Crankcase Heater	Low Pressure Control	High/Low Pressure Control	Contactors	115 Volt Control Circuit Transformer
1/6 - 1/2	All	All	No	No	No	No	No
3/4	115 or 208/230 (1Ph)	-201	No	No	No	No	No
3/4	115 or 208/230 (1Ph)	-001	No	Yes	No	No	No
1	115 or 208/230 (1Ph)	-001	Yes ⁽¹⁾	Yes	As Required	No	No
1	208/230 (3Ph)	-001	Yes ⁽¹⁾		Yes	Yes	No
1-1/4 - 1-1/2	208/230 (1Ph)	All	No ⁽²⁾		Yes	No	No
1-1/4 - 1-1/2	208/230 (3Ph)	All	No ⁽²⁾		Yes	Yes	No
2 - 5	208/230 (1Ph)	All	Yes		Yes	Yes	No
2 - 5	208/230 (3Ph)	All	Yes		Yes	Yes	No
1 - 5	460 (3Ph)	All	Yes ⁽¹⁾		Yes	Yes	Yes

* This data applies to units listed in this brochure only.

(1) Except units using "R" Compressor

(2) Except units using "CS or CF" Compressor



Welcome to the Contractor Connection

Now, you can find the latest HVAC news, market updates and training opportunities in one place. And it's all brought to you by some of the leading names in the industry. Copeland, White-Rodgers, Flow Controls and many more are now part of Emerson Climate Technologies - the leading manufacturer of climate control products in the world. This site will always have something new to give your business and your reputation a competitive advantage.

Thank You For Taking The 13 SEER Survey!

Thank you for taking the time to complete the 13 SEER Survey. Your comments and feedback have been invaluable to the industry in this period ramping up to the 13 SEER transition. We will be posting results from the latest round of the survey as well as the winners of the survey sweepstakes on December 12th.



Heating

Blue Is Coming
Blue is coming. Are you ready?



EMERSON CLIMATE TECHNOLOGIES NAMES ADDITIONAL THERMOSTATS TO WHITE-RODGERS' PRIVATE LABEL PROGRAM

Ventilation

Working With Foodservice Contractors

Emerson Climate Technologies, a business of Emerson (NYSE: EMR) recently launched an initiative to develop and strengthen relationships with refrigeration contractors who



Air Conditioning

Are You Ready To Get SEERious™

As you are probably aware, 13 SEER regulations go into effect on January 23, 2006. Throughout the year, we will be surviving some of the most



Refrigeration

Copeland M-Line Condensing Unit

Eliminate system contamination. Get the cost-effective unit replacement solution compatible with new refrigerants.



[Dealing With Leaks](#)

Service Tip Cards

Form Number

- Alternative Refrigerants and Oils
- Compressor Overheat
- Evacuation
- Evaporator vs. System Superheat
- Expansion Valves
- Flooding
- Migration
- Oil Separators
- Pump Down Systems
- Bi-Flow TXV
- Checking Power Elements of TXV
- Global Warming
- Internal or External Equalized TXV
- Liquid-to-Suction Heat Exchangers
- Maximum Operating Pressure (MOP)
- Moisture Indicators and Sight Glasses
- System Clean-Up After Motor Burn
- TXV's and SEER
- R-12 and Polyol Ester Oil
- Sensing Bulb Location
- Service Valves
- Single Phase Burns
- Subcooling
- Suction Accumulators
- Superheat
- TXV Selection

- 2005FC-253
- 2005DS-279
- 2005DS-132
- 2005DS-133
- 2005DS-130
- 2005DS-134
- 2005DS-135
- 2005DS-136
- 2005DS-137
- 2005FC-254
- 2005FC-255
- 2005FC-256
- 2005FC-257
- 2005FC-258
- 2005FC-260
- 2005FC-259
- 2005FC-261
- 2005FC-262
- 2005DS-277
- 2005DS-131
- 2005DS-280
- 2005DS-278
- 2005DS-138
- 2005DS-129
- 2005DS-139
- 2005DS-128

SystemPro™ Water-Cooled Condensing Units

Capacity Data

HIGH/MED TEMP Model				Capacity (Btu/hr) at 75° Inlet Water - Evaporator Temp (0°F)							
	BOM	Refrig.	H. P.	0	+10	+15	+20	+25	+30	+40	+45
MCWH-C027-IAA	020	22	1/4		1980	2260	2570	2910	3300	4200	4730
M2WH-C026-IAA	020	134a	1/4		1360	1620	1890	2160	2450	3100	4860
M4WH-C025-IAA	020	404A	1/4		2030	260	2520	2790	3090	3790	4190
MCWH-C036-IAA	020	22	1/3		2280	2600	2950	3330	3750	4700	5230
M2WH-C033-IAA, IAV	020	134a	1/3		1790	2190	2590	3000	35420	4350	4860
M2WH-C040-IAA, IAV	020	134a	1/3		2130	2530	2950	3390	3870	4920	5520
M4WH-C036-IAA, IAV	020	404A	1/3		2460	2780	3130	3520	3960	5000	5630
MCWH-C049-CAA, CAV	020	22	1/2		3220	3660	4130	4640	5200	6400	7060
MCWH-C056-CAA, CAV	020	22	1/2		3730	4230	4780	5390	6090	7770	8790
M2WH-C049-IAA, IAV	020	134a	1/2		2590	3050	3540	4050	4610	5860	6560
M2WH-C050-IAA, IAV	020	134a	1/2		2970	3520	4110	4720	5390	6860	7680
M2WH-C056-IAA, IAV	020	134a	1/2		3220	3830	4470	5140	5860	7460	8350
M4WH-C050-CAA, CAV	020	404A	1/2		3570	4020	4530	5130	5830	7590	8680
FJWM-C056-IAA, IAV	020	404A	1/2	3160	4180	4750	5350	6000			
F3WH-C078-IAA, IAV	020	22	3/4		4550	5310	6110	6980	7910	10020	11200
FTWH-C074-IAA, IAV	020	134a	3/4		4260	4940	5690	6530	7490	9820	11200
FTWM-C075-IAA, IAV	020	134a	3/4		4650	5580	6650	7850			
FJWM-C078-CAA, CAV	020	404A	3/4	4100	5460	6220	7040	7930			
F3WH-C100-CAV	020	22	1		5950	6800	7730	8750	9850	12300	13700
F3WM-C105-CFV, TFC, TFD	020	22	1		6550	7720	8970	10300			
FPWN-C150-CFV, TFC, TFD	020	134a	1		5150	6260	7570	8900	10500	14000	16200
FJWM-C106-CAV	020	404A	1	5030	6490	7300	8170	9100			
FPWN-C225-CFV, TFC, TFD	020	134a	1 1/4		7630	9050	10700	12500	14400	18700	21000
FJWM-C125-CFV, TFC	020	404A	1 1/4	5400	7070	8030	9100	10300			
FJWM-C126-CAV, TFC	020	404A	1 1/4	6380	8240	9290	10400	11600			
F3WD-C151-CFV, TFC, TFD	020	22	1 1/2		8120	9760	11600	13500	15700	20400	23000
FPWN-C300-CFV, TFC, TFD	020	134a	1 1/2		9720	11500	13600	15900	18400	23800	26800
FPWN-C150-CFV, TFC, TFD	020	404A	1 1/2	7350	10300	11900	13700	15500			
F3WD-C201-CFV, TFC, TFD	020	22	2		10400	12400	14600	16900	19400	25100	28300
FPWN-C325-CFV, TFC, TFD	020	134a	2		10300	12600	15000	17800	20900	28200	32400
FJWM-C200-CFV, TFC	020	404A	2	8720	12000	13900	15800	17900			
F3WD-C225-CFV, TFC, TFD	020	22	2 1/4		12000	14200	16600	19300	22100	28600	32100
FPWN-C225-CFV, TFC, TFD	020	404A	2 1/4	10800	14500	16500	18600	20900			
F3WD-C301-CFV, TFC, TFD	020	22	3		17900	20800	24000	27400	31100	39000	43300
FPWN-C300-CFV, TFC, TFD	020	404A	3	13400	18600	21400	24300	27200			
F3WD-C325-CFV, TFC, TFD	020	22	3 1/4		20200	23300	26600	30200	34200	43400	48800
FPWN-C325-CFV, TFC, TFD	020	404A	3 1/4	15100	20400	23600	27200	31400			
F3WD-C401-CFV, TFC, TFD	020	22	4		26300	30400	34700	39400	44600	56600	63700
FJWM-C400-CFV, TFC, TFD	020	404A	4	20100	27500	31700	36400	41400			
F3WD-C501-CFV, TFC, TFD	020	22	5		30100	34700	39700	45100	52900	63900	71200
FJWM-C500-CFV, TFC	020	404A	5	23900	32000	36500	41300	46300			

Bolded - Stock Item

Capacity at 60 Hertz with 5° subcooling

HT models are rated at 65°F return gas temperature

MT models are rated at 40°F return gas temperature

SystemPro™ Water-Cooled Condensing Units

Water Flow Rate Data

HIGH/MED TEMP Model	Refrig.	Water Flow Rate (Gal/Min)at 75° Inlet Water - Evaporator Temp (0°F)								
		0	+10	+15	+20	+25	+30	+35	+40	+45
MCWH-C027	22		0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6
M2WH-C026	134a		0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5
M4WH-C025	404A		0.3	0.3	0.4	0.4	0.4	0.5	0.05	0.6
MCWH-C036	22		0.4	0.4	0.5	0.5	0.5	0.6	0.7	0.7
M2WH-C033	134a		0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7
M2WH-C040	134a		0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8
M4WH-C036	404A		0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7
MCWH-C049	22		0.5	0.6	0.6	0.7	0.7	0.8	0.9	0.9
MCWH-C056	22		0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.1
M2WH-C049	134a		0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9
M2WH-C050	134a		0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.0
M2WH-C056	134a		0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1
M4WH-C050	404A		0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1
FJWM-C056	404A	0.6	0.7	0.8	0.8	0.9				
F3WH-C078	22		0.8	0.9	1.0	1.1	1.2	1.3	1.5	
FTWH-C074	134a		0.7	0.8	0.9	1.0	1.2	1.2	1.3	1.6
FTWM-C075	134a		0.8	0.9	1.0	1.2				
FJWM-C078	404A	0.7	0.9		1.0	1.1	1.2			
F3WH-C100	22		1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.9
F3WM-C105	22		1.0	1.1	1.3	1.4				
FPWN-C150	134a		0.8	1.0	1.1	1.2	1.4	1.6	1.8	2.0
FJWM-C106	404A	0.9	1.0	1.1	1.2	1.3				
FPWN-C225	134a		1.1	1.2	1.4	1.6	1.9	2.1	2.3	2.6
FJWM-C125	404A	0.9	1.1	1.2	1.3	1.4				
FJWM-C126	404A	1.1	1.3	1.4	1.5	1.7				
F3WD-C151	22		1.2	1.4	1.6	1.8	2.0	2.3	2.5	2.8
FPWN-C300	134a		1.4	1.6	1.8	2.1	2.3	2.6	2.9	3.2
FPWN-C150	404A	1.1	1.5	1.7	1.9	2.1				
F3WD-C201	22		1.6	1.8	2.0	2.3	2.6	2.9	3.2	3.5
FPWN-C325	134a		1.4	1.6	1.9	2.2	2.6	3.0	3.4	3.8
FJWM-C200	404A	1.3	1.7	1.9	2.1	2.4				
F3WD-C225	22		1.8	2.0	2.3	2.6	2.9	3.3	3.6	4.0
FPWN-C225	404A	1.6	2.1	2.3	2.5	2.8				
F3WD-C301	22		2.5	2.9	3.2	3.6	4.0	4.4	4.9	5.3
FPWN-C300	404A	2.0	2.6	2.9	3.3	3.6				
F3WD-C325	22		2.8	3.2	3.6	4.0	4.4	4.9	5.4	6.0
FPWN-C325	404A	2.0	2.6	3.0	3.4	3.9				
F3WD-C401	22	2.0	3.7	4.2	4.7	5.2	5.8	6.4	7.1	7.8
FJWM-C400	404A	3.0	3.9	4.4	4.9	5.5				
F3WD-C501	22		4.3	4.9	5.4	6.0	6.7	7.3	8.0	8.8
FJWM-C500	404A	3.6	4.6	5.1	5.6	6.2				

SystemPro™ Water-Cooled Condensing Units

Physical Data

HIGH/MED TEMP Model	Comp Model	Overall Dimensions (In)			Connecting Lines		Minimum Circuit Ampacity - Max Fuse Size				Pump Down Capacity (lbs)	Ship Wt. (lbs)
		L	W	H	Suction	Liquid	115-1-60	230-1-60	230-3-60	460-3-60		
MCWH-C027	ARE36C3	17.9	13.0	8.7	3/8 S	1/4 S	18.4 - 15				1.9	49
M2WH-C026	ARE27C3E	17.9	13.0	8.7	3/8 S	1/4 S	6.3 - 15				1.9	44
M4WH-C025	ASE19C3E	17.9	12.8	9.0	3/8 S	1/4 S	10.0 - 15				1.7	44
MCWH-C036	ARE43C3	17.9	12.8	8.8	3/8 S	1/4 S	8.9 - 15				2.6	50
M2WH-C033	ARE37C3E	17.9	13.0	8.7	3/8 S	1/4 S	9.0 - 15	4.3 - 15			1.9	50
M2WH-C040	ARE41C3E	17.9	13.0	8.7	3/8 S	1/4 S	9.3 - 15	4.9 - 15			1.9	50
M4WH-C036	ASE24C3E	17.9	12.8	9.0	3/8 S	1/4 S	9.8 - 15	5.2 - 15			2.5	51
MCWH-C049	ARE59C3	17.9	12.8	9.3	3/8 S	1/4 S	10.0 - 15	5.0 - 15			2.6	54
MCWH-C056	ART69C1	17.9	13.3	9.8	3/8 S	1/4 S	14.3 - 25	7.6 - 15			2.6	54
M2WH-C049	ART51C1E	17.9	12.8	9.0	3/8 S	1/4 S	11.6 - 20	6.0 - 15			2.7	60
M2WH-C050	ART62C1E	17.9	12.8	9.8	3/8 S	1/4 S	13.8 - 20	6.7 - 15			2.7	60
M2WH-C056	ART64C1E	17.9	12.8	9.8	3/8 S	1/4 S	13.8 - 20	7.8 - 15			2.7	60
M4WH-C050	ASE32C3E	17.9	12.8	9.3	3/8 S	1/4 S	11.5 - 20	6.1 - 15			2.5	51
FJWM-C056	RS43C2E	17.9	13.2	11.2	5/8 S	1/4 S	12.6 - 20	7.1 - 15			3.0	76
F3WH-C078	RS47C2	24.0	17.1	12.1	5/8 S	3/8 S	17.9 - 30	8.9 - 15			4.2	90
FTWH-C074	RR81C2E	18.0	12.7	11.6	5/8 S	1/4 S	19.0 - 30	11.3 - 20			3.5	93
FTWM-C075	RS54C2E	24.0	16.1	11.8	5/8 S	3/8 S	14.8 - 25	8.5 - 15			6.4	106
FJWM-C078	RS55C2E	24.0	17.1	12.1	5/8 S	3/8 S	16.5 - 25	7.6 - 15			5.5	80
F3WH-C100	RS64C2	24.0	16.1	11.8	5/8 S	3/8 S		9.6 - 15			4.2	96
F3WM-C105	RS70C1	24.0	17.3	12.8	7/8 S	3/8 S		8.8 - 15	5.9 - 15	3.3 - 15	13.6	99
FPWN-C150	CS10K6E	24.0	16.2	17.0	7/8 S	3/8 S		13.6 - 20	9.4 - 15	4.5 - 15	12.8	132
FJWM-C106	RS64C2E	24.0	16.1	11.8	7/8 S	3/8 S		9.6 - 15			5.5	90
FPWN-C225	CS14K6E	24.0	16.8	15.0	7/8 S	3/8 S		15.5 - 25	11.4 - 20	5.9 - 15	11.0	133
FJWM-C125	RS70C1E	24.0	18.5	12.8	7/8 S	3/8 S		8.8 - 15	5.9 - 15		10.4	99
FJWM-C126	RS80C2E	24.0	17.3	12.8	7/8 S	3/8 S		12.0 - 20	8.0 - 15		10.6	119
F3WD-C151	CR18KQ	24.0	16.1	15.0	7/8 S	3/8 S		15.0 - 20	7.5 - 15	3.8 - 15	14.0	131
FPWN-C300	CS18K6E	24.0	16.9	15.0	1-1/8 S	3/8 S		20.0 - 35	13.0 - 20	5.9 - 15	12.8	133
FPWN-C150	CS10K6E	24.0	16.2	17.0	7/8 S	3/8 S		13.6 - 20	9.4 - 15	4.5 - 15	11.0	132
F3WD-C201	CR24KQ	24.0	16.1	15.0	7/8 S	3/8 S		16.9 - 30	9.4 - 15	4.6 - 15	14.0	135
FPWN-C325	CS20K6E	26.2	21.0	15.5	1-1/8 S	3/8 S		23.3 - 40	14.3 - 25	6.4 - 15	13.5	164
FJWM-C200	CS12K6E	24.0	16.8	15.0	7/8 S	3/8 S		13.6 - 20	9.4 - 15		11.0	133
F3WD-C225	CR28KQ	24.0	16.1	15.0	7/8 S	3/8 S		18.8 - 30	11.0 - 15	5.5 - 15	14.0	150
FPWN-C225	CS14K6E	24.0	16.8	15.0	7/8 S	3/8 S		15.5 - 25	11.4 - 20	5.9 - 15	11.0	133
F3WD-C301	CR37KQ	26.2	21.0	15.4	1-1/8 S	3/8 S		23.1 - 40	13.9 - 20	7.0 - 15	14.7	164
FPWN-C300	CS18K6E	24.0	16.9	15.0	1-1/8 S	3/8 S		20.0 - 35	13.0 - 20	5.9 - 15	11.0	133
F3WD-C325	CR41KQ	26.2	21.0	15.4	1-1/8 S	3/8 S		24.3 - 40	16.4 - 25	7.4 - 15	14.7	185
FPWN-C325	CS20K6E	26.2	21.0	15.5	1-1/8 S	3/8 S		23.3 - 40	14.3 - 25	6.4 - 15	11.6	164
F3WD-C401	CR53KQ	26.8	21.0	21.1	1-1/8 S	1/2 S		41.9 - 60	25.9 - 40	10.8 - 15	21.1	197
FJWM-C400	CS27K6E	26.2	21.0	21.0	1-1/8 S	1/2 S		29.9 - 50	19.5 - 35	9.6 - 15	18.2	188
F3WD-C501	CRN5-0500	25.8	21.8	21.1	1-1/8 S	1/2 S		46.4 - 70	30.3 - 45		21.1	197
FJWM-C500	CS33K6E	25.0	21.1	21.3	1-1/8 S	1/2 S		38.4 - 60	25.9 - 45		18.2	188

S-Sweat

Note: Water Connections (Inlet/Outlet) 1/2 in.

SystemPro™ Water-Cooled Condensing Units

Capacity Data

LOW TEMP Model				Capacity (Btu/hr) at 75° Inlet Water - Evaporator Temp (0°F)						
	BOM	Refrig.	H. P.	-30	-25	-20	-15	-10	0	
M2WL-C025-IAA	020	134a	1/4		700	800	930	1080	1430	
M4WL-C025-IAA	020	404A	1/4		580	680	780	900	1180	
M2WL-C033-IAA	020	134a	1/3		860	990	1150	1330	1750	
M2WL-C040-IAA	020	134a	1/3		820	1040	1270	1530	2120	
M4WL-C033-IAA	020	404A	1/3		770	960	1160	13780	1830	
FTWL-C050-IAA, IAV	020	134a	1/2		1120	1490	1890	2320	3290	
M4WL-C040-IAA	020	404A	1/2		1180	1430	1690	1970	2590	
M4WL-C051-IAA	020	404A	1/2		1250	1530	1850	2200	2990	
M4WL-C067-CFA	020	404A	1/2		2160	2520	2940	3420	4590	
FJWL-C075-CAA, IAV	020	404A	3/4			2090	2614	3160	3750	5020
FJWL-C103-CFV, TFC	020	404A	1	2170	2940	3730	4590	5550	7930	
FJWL-C200-CFV, TFC, TFD	020	404A	2	3940	5020	6250	7620	9090	12300	
FJWL-C301-CFV, TFC, TFD	020	404A	3	5810	7360	9110	11000	13200	17800	
FJWL-C390-CFV, TFC	020	404A	4	7880	9940	12100	14400	16800	22100	

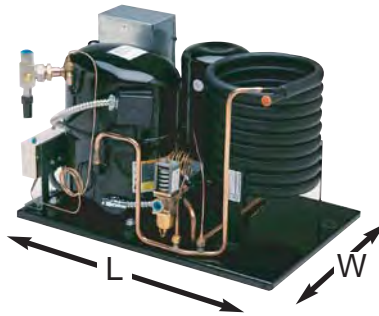
Bolded - Stock Item

Capacity at 60 Hertz with 5° subcooling
 LT models are rated at 40°F return gas temperature

SystemPro™ Water-Cooled Condensing Units

Water Flow Rate Data

LOW TEMP Model	Refrig.	Water Flow Rate (Gal/Min) at 75°F Inlet Water - Evaporator Temp (0°F)					
		-30	-25	-20	-15	-10	0
M2WL-C025	134a		0.1	0.2	0.2	0.2	0.3
M4WL-C025	404A		0.1	0.2	0.2	0.2	0.2
M2WL-C033	134a		0.2	0.2	0.2	0.2	0.3
M2WL-C040	134a		0.2	0.2	0.3	0.3	0.4
M4WL-C033	404A		0.2	0.3	0.3	0.4	0.4
FTWL-C050	134a		0.3	0.3	0.4	0.4	0.5
M4WL-C040	404A		0.2	0.3	0.3	0.4	0.4
M4WL-C051	404A		0.3	0.3	0.4	0.4	0.5
M4WL-C067	404A		0.4	0.5	0.6	0.6	0.8
FJWL-C075	404A		0.5	0.6	0.6	0.7	0.9
FJWL-C103	404A	0.5	0.6	0.7	0.8	0.9	1.2
FJWL-C200	404A	0.8	0.9	1.1	1.3	1.5	1.9
FJWL-C301	404A	1.1	1.3	1.6	1.8	2.1	2.7
FJWL-C390	404A	1.2	1.4	1.7	2.0	2.3	3.0



SystemPro™ Water-Cooled Condensing Units

Physical Data

LOW TEMP Model	Comp Model	Overall Dimensions (In)			Connecting Lines		Minimum Circuit Ampacity - Max Fuse Size				Pump Down Capacity (lbs)	Ship Wt. (lbs)
		L	W	H	Suction	Liquid	115-1-60	230-1-60	230-3-60	460-3-60		
M2WL-C025	AFE10C3E	24.0	16.4	9.5	3/8 S	1/4 S	6.8 - 15				1.9	44
M4WL-C025	AFB09C3E	24.0	16.4	9.5	3/8 S	1/4 S	6.7 - 15				1.9	44
M2WL-C033	AFE12C3E	24.0	16.4	9.5	3/8 S	1/4 S	7.0 - 15				1.9	44
M2WL-C040	AFT12C1E	24.0	16.4	9.5	3/8 S	1/4 S	7.1 - 15				1.9	44
M4WL-C033	AFE11C3E	24.0	16.4	9.5	3/8 S	1/4 S	8.0 - 15				1.9	44
FTWL-C050	RF18C2E	24.0	16.1	12.1	1/2 S	1/4 S	16.7 - 25	9.4 - 15			2.6	55
M4WL-C040	AFE13C3E	24.0	16.4	9.5	3/8 S	1/4 S	7.9 - 15				2.3	44
M4WL-C051	AFT18C1E	24.0	16.4	9.9	3/8 S	1/4 S	10.5 - 15				2.3	50
M4WL-C067	AFT26C1E	24.0	16.4	9.9	1/4 S	1/4 S	10.2 - 15				2.3	60
FJWL-C075	RS64C2E	24.0	16.1	11.6	5/8 S	3/8 S	19.7 - 30	12.0 - 20			5.5	100
FJWL-C103	CF04K6E	24.0	16.1	11.6	5/8 S	3/8 S		12.0 - 20	8.0 - 15		10.4	132
FJWL-C200	CF06K6E	24.0	16.4	15.0	7/8 S	3/8 S		14.8 - 25	9.3 - 15	5.4 - 15	10.4	140
FJWL-C301	CF09K6E	24.0	21.0	21.1	7/8 S	1/2 S		21.4 - 35	13.3 - 20	7.6 - 15	13.5	144
FJWL-C390	CF12K6E	25.0	21.0	21.1	7/8 S	1/2 S		25.6 - 45	15.4 - 25		16.8	150

S-Sweat

Note: Water Connections (Inlet/Outlet) 1/2 in.

Electrical 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		

Unit Feature -020 Bill of Material

Suction Connections		Liquid Connections		Electrical Connections		UL/UR
Suction Valve	Suction Accumulator	Base Valve	Receiver w/Valve	Power Cord	BX Conduit	
•			•		•	UL

Control Data -020 Bill of Material

Horsepower	Voltage	CC Heater	Dual Pressure Control	Contactor	115 V Control Circuit Transformer
1/4 -1/2	All	No	Yes	No	No
3/4	115 & 208/230 -1	No	Yes	No	No
1	115 & 208/230 -1	No	Yes	No	No
1	208/230 -3	No	Yes	Yes	No
1-1/4 & 1-1/2	208/230 -1	Yes	Yes	No	No
1-1/4 & 1-1/2	208/230 -3	Yes	Yes	Yes	No
2-5	208/230 -1	Yes	Yes	Yes	No
2-5	208/230 -3	Yes	Yes	Yes	No
2-5	460-3	Yes	Yes	Yes	Yes

* This data applies to units listed in this brochure only.

(1) Except units using "R" Compressor

(2) Except units using "CS or CF" Compressor


SystemPro™ Water-Cooled Condensing Units

Cross Reference

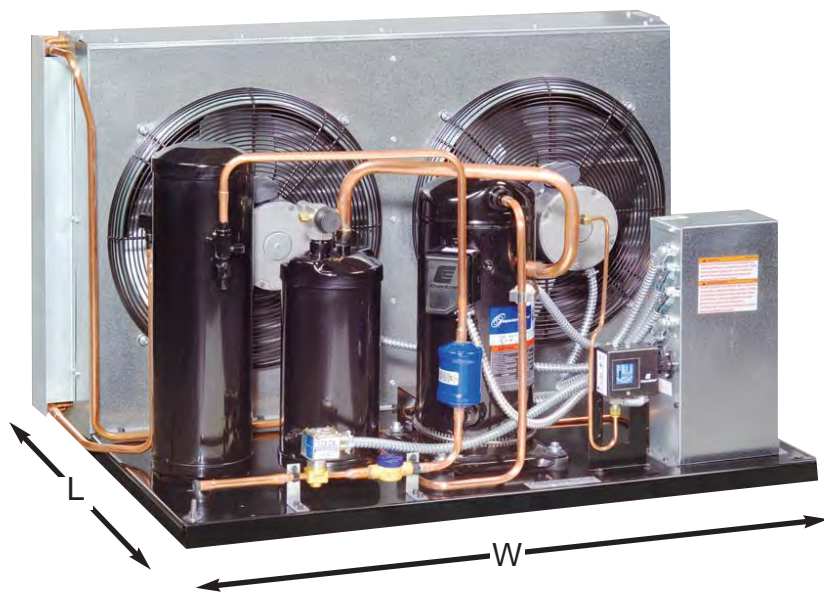
HIGH/MED TEMP (BTUH @ 75°F Inlet Water Evaporator Temperature +25°F)											
Tecumseh Model	Ref	HP	Copeland Model	Ref	HP	Volt	BTUH	L	W	H	
AEA9423EXAXW	R-22	1/3	MCWH-C027-IAA-020	R-22	1/4	115-1	2910	17.9	13.0	8.7	
AJA7441AXAXW	R-12	1/2	M2WH-C056-IAA-020	R-134a	1/2	115-1	5140	17.9	12.8	9.8	
AJA7441AXDXW	R-12	1/2	M2WH-C056-IAV-020	R-134a	1/2	208/230-1	5140	17.9	12.8	9.8	
AKA9457EXAXW	R-22	1/2	MCWH-C049-CAA-020	R-22	1/2	115-1	4640	17.9	12.8	9.3	
AKA9457EXDXW	R-22	1/2	MCWH-C049-CAV-020	R-22	1/2	208/230-1	4640	17.9	12.8	9.3	
AKA9479EXDXW	R-22	3/4	F3WH-C078-IAV-020	R-22	3/4	208/230-1	6980	24.0	17.1	12.1	
AJA7465AXAXW	R-12	3/4	FTWM-C075-IAA-020	R-134a	3/4	115-1	7850	24.0	16.1	11.8	
AJB7465AXDXW	R-12	3/4	FTWH-C074-IAV-020	R-134a	3/4	208/230-1	6530	18.0	12.7	11.6	
AHA7480AXDXW	R-12	1	FPWN-C225-CFV-020	R-134a	1 1/4	208/230-1	12500	24.0	16.8	15.0	
AHA7480AXFXW	R-12	1	FPWN-C225-TFC-020	R-134a	1 1/4	208/230-3	12500	24.0	18.0	15.0	
AJA9511EXDXW	R-22	1	F3WD-C151-CFV-020	R-22	1 1/2	208/230-1	13500	24.0	16.1	15.0	
AHA7511AXFXW	R-12	1 1/2	FPWN-C300-TFC-020	R-134a	1 1/2	208/230-3	15900	24.0	16.9	15.0	
AHB7511AXDXW	R-12	1 1/2	FPWN-C300-CFV-020	R-134a	1 1/2	208/230-1	15900	24.0	16.9	15.0	
AWA7515ZDXW	R-404A	2	FPWN-C150-CFV-020	R-404A	1 1/2	208/230-1	15500	24.0	16.2	17.0	
AWA7515ZTXW	R-404A	2	FPWN-C150-TFC-020	R-404A	1 1/2	208/230-3	15500	24.0	16.2	17.0	
AHA7514AXDXW	R-12	2	FPWN-C325-CFV-020	R-134a	2	208/230-1	17800	26.2	21.0	15.5	

LOW TEMP (BTUH @ 75°F Inlet Water Evaporator Temperature -10°F)											
Tecumseh Model	Ref	HP	Copeland Model	Ref	HP	Volt	BTUH	L	W	H	
AHA2435AXDXW	R-12	3/4	FJWL-C075-IAV-020	R-404A	3/4	208/230-1	4020	24.0	16.1	11.6	
AHA2445AXDXW	R-12	1	FJWL-C103-CFV-020	R-404A	1	208/230-1	5550	24.0	16.1	11.6	
AHA2466AXDXW	R-12	1 1/2	FJWL-C200-CFV-020	R-404A	2	208/230-1	9090	24.0	16.4	15.0	
AWA2488ZDXW	R-404A	2	FJWL-C200-CFV-020	R-404A	2	208/230-1	9090	24.8	16.4	15.0	
AVA2512ZXNXW	R-404A	3	FJWL-C301-CFV-020	R-404A	3	208/230-1	13630	25.0	21.0	21.1	

Capacity at 60 Hertz with 5° subcooling

 Refrigerant Change Required

Use On Line Product Information (OPI) for detailed information on these items or the complete hermetic water-cooled product line.



Copeland Scroll Air-Cooled Condensing Units

Capacity Data

HIGH/MED TEMP Model	BOM	Refrig.	H.P.	Capacity (Btu/hr) at 90° Ambient - Evaporator Temp (0°F)						
				+10	+15	+20	+25	+30	+40	+45
FTAH-A13Z-CFV,TFC,TFD	072, 074	134a	1	8030	9030	10100	11200	12400	14900	16300
FTAH-A15Z-CFV, TFC, TFD	072, 074	134a	1 1/2	9350	10500	11800	13100	14500	17500	19000
FJAM-A15Z-CFV	172, 174	404A	1 1/2	9810	10800	11800	12900	14000	16400	17600
FTAH-A20Z-CFV,TFC,TFD	071, 073	134a	2	12000	13600	15200	17000	18800	22800	24900
FJAM-A20Z-CFV,TFC,TFD	071, 073	404A	2	13900	15200	16600	18100	19600	22900	24600
FTAH-A25Z-CFV,TFC,TFD	071, 073	134a	2 1/2	13700	15400	17200	19200	21300	25700	28000
FJAM-A25Z-CFV,TFC,TFD	071, 073	404A	2 1/2	17700	19400	21200	23200	25200	29500	31800
FTAH-A30Z-CFV,TFC,TFD	071, 073	134a	3	16300	18400	20600	23100	25600	31100	34000
FJAM-A30Z-CFV,TFC,TFD	071, 073	404A	3	20700	22600	24700	26900	29200	34000	36600
FTAH-A35Z-CFV,TFC,TFD	071, 073	134a	3 1/2	19800	22200	24900	27800	30800	37100	40500
FJAM-A35Z-CFV,TFC,TFD	071, 073	404A	3 1/2	23600	25700	28000	30500	33000	38300	41100
FTAH-A45Z-TFC,TFD	071, 073	134a	4 1/2	24900	28000	31400	35000	38800	47100	51500
FJAM-A40Z-CFV,TFC,TFD	071, 073	404A	4	28800	31800	34900	38200	41700	49200	53100
FTAH-A50Z-TFC,TFD	071, 073	134a	5	27400	30700	34200	38000	42000	50700	55500
FJAM-A50Z-CFV,TFC,TFD	071, 073	404A	5	34800	38400	42200	46100	50200	58800	63300
FJAM-A60Z-TFC, TFD	071, 073	404A	6	33100	40300	44100	48200	52400		
FPAN-070Z-TFC,TFD	071, 073	134a	7	28000	31400	35000	39000	43200	52500	57500
FPAN-070Z-TFC,TFD	071, 073	404A	7	47300	52100	57100	62400	67900	79700	85900
FPAN-080Z-TFC,TFD	071, 073	134a	8	31400	35200	39300	43600	48200	58100	63400
FPAN-080Z-TFC,TFD	071, 073	404A	8	52300	57600	63000	66200	74400	86300	92400
FPAN-091Z-TFC,TFD	071, 073	134a	9	36100	40400	45000	49900	55200	66400	72400
FPAN-091Z-TFC,TFD	071, 073	404A	9	59200	64700	70300	76300	82400	95300	102100
FPAN-101Z-TFC,TFD	071, 073	134a	10	40100	44800	49800	55200	60800	73000	79500
FPAN-101Z-TFC,TFD	071, 073	404A	10	68200	74100	80300	86800	93500	107500	114800
LOW TEMP Model	BOM	Refrig.	H.P.	Capacity (Btu/hr) at 90° Ambient - Evaporator Temp (0°F)						
				-40	-35	-30	-25	-20	-10	0
DJAL-015Z-CFV,TFC,TFD	071, 073	404A	1 1/2	4750	5460	6220	7020	7080	9730	11800
DJAL-020Z-CFV,TFC,TFD	071, 073	404A	2	6040	6870	7770	8740	9780	12100	14600
DJAL-022Z-CFV,TFC,TFD	071, 073	404A	2+	6680	7580	8540	9560	10600	13000	15600
DJAL-026Z-CFV,TFC,TFD	071, 073	404A	2 1/2	8420	9580	10800	12200	13600	16800	20400
DJAL-030Z-CFV,TFC,TFD	071, 073	404A	3	9280	10600	12100	13600	15300	18900	22900
DJAL-041Z-CFV,TFC,TFD	071, 073	404A	4	12000	13700	15400	17300	19400	24000	29200
DJAL-051Z-TFC,TFD	071, 073	404A	5	14300	16300	18500	20700	23100	28400	34400
DJAL-060Z-TSC,TSD	071, 073	404A	6	17000	19400	22000	24700	27600	33900	40900

Capacities are at 60 Hertz with 65° return gas and 5°F subcooling.

Copeland Scroll Air-Cooled Condensing Units

Capacity Data

Cap. (Btu/hr) at 100° F Ambient - Evap Temp							Cap. (Btu/hr) at 110° F Ambient - Evap Temp						
+10	+15	+20	+25	+30	+40	+45	+10	+15	+20	+25	+30	+40	+45
7500	8420	9400	10400	11500	13900	15200		7830	8710	9660	10700	12900	14100
8710	9810	11000	12200	13600	16400	17900		9070	10200	11400	12600	15300	16600
8850	9760	10700	11700	12700	14900	16100	7790	8630	9500	10400	11400		
11200	12700	14300	15900	17700	21500	23400		11800	13300	14800	16500	20100	21900
12700	13900	15200	16600	18000	21000	22600	11500	12600	13800	15000	16300	19100	20600
12700	14400	16100	18000	19900	24100	26300		11300	15000	16700	18600	22500	24600
16200	17800	19500	21300	23100	27100	29300	14700	16100	17700	19300	21000	24700	26700
15200	17200	19300	21600	24100	29300	32000		15900	18000	20100	22400	27400	30000
18900	20700	22600	24600	26700	31200	33600	17100	18700	20500	22300	24200	28400	30600
18400	20800	23300	26000	28800	34900	38000		19300	21600	24200	26900	32600	35500
21500	23500	25600	27800	30200	35100	37700	19400	21200	23100	25100	27300		
23200	26100	29300	32700	36300	44200	48300		24200	27100	30400	33800	41200	45100
26400	29200	32100	35100	38300	45200	48800	23900	26400	29100	31900	34800	41100	44500
25700	28800	32100	35700	39500	478800	52300		27000	30100	33500	37100	44900	49200
31700	35000	38500	42200	46000	54000	58200	28600	31600	34800	38100	41600	49000	52900
30200	36700	40300	44000	47900			27100	33100	36300	39700	43300		
26200	29400	32900	36600	40600	49300	54100		27500	30800	34300	38000	46200	50700
42800	47200	51900	56800	61900	72800	78600	38000	42100	46400	50900	55600	65700	71100
29500	33000	36800	40900	45200	54500	59500		30800	34300	38100	42100	50900	55600
46800	51600	56500	61600	66800	77500	83000	41000	45300	49700	54200	58900	68500	73400
33800	37800	42100	46800	51700	62300	67900		35200	39200	43600	48200	58100	63400
54200	59200	64400	69800	75400	87200	93400	49100	53600	58300	63200	68300		
34700	41900	46600	51700	57000	68400	74500		38900	43300	48100	53100	63800	69500
61900	67300	72800	78600	84500	97200	103700	55400	60100	65000	70100	75400		
Cap. (Btu/hr) at 100° F Ambient - Evap Temp							Cap. (Btu/hr) at 110° F Ambient - Evap Temp						
-40	-35	-30	-25	-20	-10	0	-40	-35	-30	-25	-20	-10	0
4310	5020	5760	6540	7340	9070	10900	3940	4650	5370	6110	6860	8450	10100
5490	6310	7180	8110	9090	11200	13500	4960	5760	6590	7460	8370	10300	12300
6210	7050	7940	8870	9860	12000	14400	5710	6490	7300	8150	9040	11000	13100
7710	8840	10000	11300	12700	15600	18900	7010	8100	9240	10400	11700	14400	17200
8530	9770	11100	12600	14100	17400	21100	7910	9030	10200	11500	12900	15900	19200
11200	12700	14400	16100	18000	22200	26900	10400	11700	13200	14800	16500	20300	22400
13500	15400	17300	19400	21600	26400	31800	12600	14300	16100	18000	20000	24300	29100
15900	18100	20500	23000	25700	31400	37700	14600	16700	18900	21200	23600	28700	34300

Capacities are at 60 Hertz with 65° return gas and 5°F subcooling.

Copeland Scroll Air-Cooled Condensing Units

Physical Data

Model	Comp	Overall Dimensions (In)			Connecting Lines		Minimum Circuit Ampacity - Max Fuse Size			Pump Down Capacity (lbs)	Ship Weight (lbs)
		L	W	H	Suction	Liquid	208/230-1	230-3	460-3		
FTAH-A13Z-CFV,TFC,TFD	ZB15KCE	24.0	18.3	16.3	7/8 S	3/8 S	21.0 - 35	12.5 - 20	7.9 - 15	10.4	135
FTAH-A15Z-CFV, TFC, TFD	ZB15KCE	24.0	18.3	16.3	7/8 S	3/8 S	21.0 - 35	12.5 - 20	7.9 - 15	10.4	135
FJAM-A15Z-CFV	ZB11KCE	24.0	18.3	16.3	7/8 S	3/8 S	13.9 - 20			8.9	116
FTAH-A20Z-CFV,TFC,TFD	ZB21KCE	25.2	34.0	19.0	7/8 S	3/8 S	28.2 - 45	17.4 - 25	9.1 - 15	17.8	235
FJAM-A20Z-CFV,TFC,TFD	ZB15KCE	25.2	34.0	19.0	7/8 S	3/8 S	21.9 - 35	13.4 - 20	7.7 - 15	15.2	220
FTAH-A25Z-CFV,TFC,TFD	ZB26KCE	25.2	34.0	19.0	7/8 S	3/8 S	31.8 - 50	19.7 - 30	10.4 - 15	17.8	235
FJAM-A25Z-CFV,TFC,TFD	ZB19KCE	25.2	34.0	19.0	1-1/8 S	3/8 S	25.2 - 40	15.3 - 20	9.5 - 15	17.2	220
FTAH-A30Z-CFV,TFC,TFD	ZB30KCE	25.2	34.0	19.0	1-1/8 S	3/8 S	36.3 - 60	22.4 - 35	12.6 - 15	20.1	254
FJAM-A30Z-CFV,TFC,TFD	ZB21KCE	25.2	34.0	19.0	1-1/8 S	3/8 S	28.7 - 45	17.9 - 25	10.8 - 15	17.2	235
FTAH-A35Z-CFV,TFC,TFD	ZB38KCE	25.2	34.0	19.0	1-1/8 S	3/8 S	41.7 - 60	30.4 - 45	15.2 - 20	20.1	255
FJAM-A35Z-CFV,TFC,TFD	ZB26KCE	25.2	34.0	19.0	1-1/8 S	3/8 S	32.3 - 50	20.2 - 30	12.1 - 15	17.2	235
FTAH-A45Z-TFC,TFD	ZB45KCE	28.2	44.1	26.8	1-1/8 S	1/2 S		31.7 - 50	16.8 - 25	34.4	329
FJAM-A40Z-CFV,TFC,TFD	ZB30KCE	28.2	44.1	26.8	1-1/8 S	1/2 S	37.1 - 60	23.2 - 35	11.8 - 15	29.4	337
FTAH-A50Z-TFC,TFD	ZB50KCE	28.2	44.1	26.8	1-1/8 S	1/2 S		39.4 - 60	21.2 - 30	34.4	375
FJAM-A50Z-CFV,TFC,TFD	ZB38KCE	28.2	44.1	26.8	1-1/8 S	1/2 S	42.5 - 60	31.2 - 45	14.4 - 20	29.4	339
FJAM-A60Z-TFC,TFD	ZB45KCE	28.2	44.1	26.8	1-1/8 S	1/2 S		31.7 - 50	16.8 -	29.4	342
FPAN-070Z-TFC,TFD	ZB50KCE	28.5	44.0	36.8	1-3/8 S	5/8 S		44.8 - 60	23.2 - 30	70.6	495
FPAN-070Z-TFC,TFD	ZB50KCE	28.5	44.0	36.8	1-3/8 S	5/8 S		44.8 - 60	23.2 - 30	60.4	495
FPAN-080Z-TFC,TFD	ZB58KCE	28.5	44.0	36.8	1-3/8 S	5/8 S		49.1 - 70	24.9 - 35	70.6	497
FPAN-080Z-TFC,TFD	ZB58KCE	28.5	44.0	36.8	1-3/8 S	5/8 S		49.1 - 70	24.9 - 35	60.4	497
FPAN-091Z-TFC,TFD	ZB66KCE	28.5	44.0	36.8	1-3/8 S	5/8 S		51.0 - 70	26.3 - 35	70.6	498
FPAN-091Z-TFC,TFD	ZB66KCE	28.5	44.0	36.8	1-3/8 S	5/8 S		51.0 - 70	26.3 - 35	60.4	498
FPAN-101Z-TFC,TFD	ZB76KCE	28.5	44.0	36.8	1-3/8 S	5/8 S		60.8 - 90	28.4 - 40	79.2	528
FPAN-101Z-TFC,TFD	ZB76KCE	28.5	44.0	36.8	1-3/8 S	5/8 S		60.8 - 90	28.4 - 40	67.8	528
DJAL-015Z-CFV,TFC,TFD	ZF06K4E	25.2	34.3	19.0	7/8 S	3/8 S	19.3 - 30	13.9 - 20	6.8 - 15	15.2	220
DJAL-020Z-CFV,TFC,TFD	ZF08K4E	25.2	34.3	19.0	7/8 S	3/8 S	22.8 - 35	14.4 - 20	7.7 - 15	15.2	222
DJAL-022Z-CFV,TFC,TFD	ZF09K4E	25.2	34.3	19.0	7/8 S	3/8 S	22.8 - 35	16.2 - 20	8.6 - 15	15.2	222
DJAL-026Z-CFV,TFC,TFD	ZF11K4E	25.2	34.3	19.0	1-1/8 S	3/8 S	28.7 - 45	19.8 - 30	12.1 - 15	17.2	235
DJAL-030Z-CFV,TFC,TFD	ZF13K4E	25.2	34.3	19.0	1-1/8 S	3/8 S	36.3 - 60	21.6 - 30	13.5 - 15	17.2	254
DJAL-041Z-CFV,TFC,TFD	ZF15K4E	28.2	44.1	26.8	1-1/8 S	1/2 S	43.4 - 70	30.4 - 45	14.4 - 20	29.4	339
DJAL-051Z-TFC,TFD	ZF18K4E	28.2	44.1	26.8	1-1/8 S	1/2 S		33.5 - 50	14.0 - 20	29.4	342
DJAL-060Z-TSC,TSD	ZF24K4E	28.2	44.1	26.8	1-1/8 S	1/2 S		41.1 - 60	22.0 - 35	29.4	476

Electric Nomenclature (voltage-phase-hertz)

208/230-1-60	208/230-3-60	460-3-60
CFV	TFC/TSC	TFD/TSD

BOM	Suction Valve*	Accumulator	Receiver	BX Conduit	Fan Guard	Discharge Line T'stat	High/Low Pressure Control	Time Delay Relay (1 Ø)	Filter Drier	Moisture Indicator	Liquid Solenoid Valve w/ Coil	Fan Cycle Control
-015	•	•	•	•	•	•	•	•				•
-020	•	•	•	•	•	•	•	•				•
-071	•	•	•	•	•	•	•	•	•	•		•
-072	•	•	•	•	•	•	•	•	•	•		
-073	•	•	•	•	•	•	•	•	•	•	•	•
-074	•	•	•	•	•	•	•	•	•	•	•	
-172	•	•	•	•	•	•	•	•	•	•		
-174	•	•	•		•	•	•	•	•	•	•	

* except 1.5 HP

BOM (bills of material) numbers apply only to the units listed in this section. All Models are UL Listed. UL/UR are registered trademarks of Underwriters Laboratories, Inc.

Sometimes, the quick fix isn't the **WHOLE** fix.



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A compressor fails. The quick fix? Replace the compressor. But is that the right fix? What's the best long-term performance option for you – and your customer?

It may be replacing the entire condensing unit. Why? Because installing a new Copeland® SystemPro™ condensing unit helps assure the system will operate at its peak performance for years to come...even in the toughest applications. And because, in the long run, a new condensing unit can prove to be the most cost-effective option available.

Copeland SystemPro units are built to fit any application. And they're easy to install. Repair or replace. It's your choice – and your reputation.



Copeland® + White-Rodgers® + Browning® + Flow Controls
HVACR Motors + Ventilation Products + Educational Services

Copeland Copevap Air-Cooled Condensing Units

Capacity Data

HIGH/MED TEMP Model	Bill of Material	Refrigerant	H.P.	Capacity (Btu/hr) at 90° Ambient - Evaporator Temp (°F)							
				0	+10	+15	+20	+25	+30	+40	+45
M2EH-0026-IAA	020 , 111	134a	1/4	1530	1700	1890	2080	2490	2710	2940	
M2PH-0026-IAA	020 , 111	134a	1/4	1530	1700	1890	2080	2490	2710	2940	
MCEH-0027-IAA	111, 208, 212	22	1/4	1910	2130	2360	2600	2850	3380	3660	
MCPH-0027-IAA	111, 208, 212	22	1/4	1910	2130	2360	2600	2850	3380	3660	
M4EH-0025-IAA	111, 208, 212	404A	1/4	1600	1890	2060	2230	2430	2620	3070	3270
M4PH-0025-IAA	111, 208, 212	404A	1/4	1600	1890	2060	2230	2430	2620	3070	3270
M2EH-A033-IAA, IAV	111, 208, 212	134a	1/3	1870	2110	2360	2620	2900	3500	3820	
M2PH-A033-IAA, IAV	111, 208, 212	134a	1/3	1870	2110	2360	2620	2900	3500	3820	
MCEH-0035-IAA	111, 208, 212	22	1/3	2200	2450	2730	3020	3330	4000	4360	
MCPH-0035-IAA	111, 208, 212	22	1/3	2200	2450	2730	3020	3330	4000	4360	
M4EH-A035-IAA, IAV	111, 208, 212	404A	1/3	1800	2280	2530	2800	3100	3430	4230	4710
M4PH-A035-IAA, IAV	111, 208, 212	404A	1/3	1800	2280	2530	2800	3100	3430	4230	4710
M2EH-0047-IAA, IAV	111, 208, 212	134a	1/2	2400	2740	3100	3460	3830	4610	5030	
M2PH-0047-IAA, IAV	111, 208, 212	134a	1/2	2400	2740	3100	3460	3830	4610	5030	
M2EM-0048-IAA	111, 208, 212	134a	1/2	2600	3980	3370	3760				
MCEH-0048-CAA, CAV	111, 208, 212	22	1/2	3020	3360	3720	4110	4520	5410	5880	
M4EH-0049-CAA, CAV	111, 208, 212	404A	1/2	2470	3020	3310	3620	3970	4350	5320	5940
FTEH-B075-IAA, IAV	208, 212	134a	3/4	3920	4420	4950	5510	6130	7550	8350	
F3EH-A078-IAA, IAV	208, 212	22	3/4	4480	5120	5760	6450	7130	8660	9440	
FJEF-B078-CAA, CAV	208, 212	404A	3/4	3900	4970	5540	6130	6740			

LOW TEMP Model	Bill of Material	Refrigerant	H.P.	Capacity (Btu/hr) at 90° Ambient - Evaporator Temp (°F)				
				-25	-20	-15	-10	0
M2PL-A025-IAA	111, 208, 212	134a	1/4	720	820	940	1070	1370
M4PL-0025-IAA	020 , 111	404A	1/4	610	710	810	920	1160
M2EL-B033-IAA	020, 111	134a	1/3	850	960	1090	1240	1590
M2PL-B033-IAA	020 , 111	134a	1/3	850	960	1090	1240	1590
M2EL-0040-IAA	020, 111	134a	1/3	920	1120	1320	1540	2010
M2PL-0040-IAA	020 , 111	134a	1/3	920	1120	1320	1540	2010
M4EL-0033-IAA	111, 208, 212	404A	1/3	860	1040	1210	1390	1750
FTEL-A050-IAA, IAV	208, 212	134a	1/2	1280	1590	1910	2260	2980
M4EL-0039-IAA	111, 208, 212	404A	1/2	1290	1510	1740	1980	2500
M4PL-0039-IAA	111, 208, 212	404A	1/2	1290	1510	1740	1980	2500
M4EL-0050-IAA	111, 208, 212	404A	1/2	1330	1590	1870	2170	2790
M4PL-0050-IAA	111, 208, 212	404A	1/2	1330	1590	1870	2170	2790
FJEF-A075-CAA, IAV	208, 212	404A	3/4	2120	2570	3040	3510	4470

BOM's Bolded - (115 Volt Only) In Stock

Capacity at 60 Hertz with 5° subcooling

NOTE: Check Physical Dimension Data. Models with "P" in the third digit are narrower.

HT models are rated at 65°F return gas temperature
LT& MT models are rated at 40°F return gas temperature



Copeland Copevap Air-Cooled Condensing Units

Capacity Data

HIGH/MED TEMP Capacity (Btu/hr) at 100° Ambient - Evap Temp (°F)								Capacity (Btu/hr) at 110° Ambient - Evap Temp (°F)						
0	+10	+15	+20	+25	+30	+40	+45	+10	+15	+20	+25	+30	+40	+45
	1400	1570	1710	1890	2080	2520	2710	1330	1470	1570	1740	1910	2100	
	1400	1570	1710	1890	2080	2520	2710	1330	1470	1570	1740	1910	2100	
	1710	1930	2150	2380	2610	3130	3400	1540	1750	1970	2180	2410		
	1710	1930	2150	2380	2610	3130	3400	1540	1750	1970	2180	2410		
1460	1700	1870	2030	2220	2400	2840	3030	1530	1690	1840	2020	2190		
1460	1700	1870	2030	2220	2400	2840	3030	1530	1690	1840	2020	2190		
	1690	1920	2150	2420	2670	3230	3490	1520	1740	1970	2220	2440	2720	
1690	1920	2150	2420	2670	3230	3490		1520	1740	1970	2220	2440	2720	
	1990	2230	2490	2770	3070	3710	4060	1830	2060	2310	2580	2870	3180	3510
	1990	2230	2490	2770	3070	3710	4060	1830	2060	2310	2580	2870	3180	3510
1570	2020	2250	2510	2800	3130	3930	4430	1790	2020	2270	2570	2900	3290	3750
1570	2020	2250	2510	2800	3130	3930	4430	1790	2020	2270	2570	2900	3290	3750
	2170	2490	2820	3160	3500	4250					2570	2890		
	2170	2490	2820	3160	3500	4250					2570	2890		
	2350	2710	3060	3420										
	2760	3080	3430	3810	4220	5110	5590	2520	2840	3190	3570	3970		
2190	2760	3050	3370	3730	4140			2580	290					
2550	3440	3900	4390	4910	5470	6790	7550	3050	3470	3910	4380	4900	5470	
	4020	4620	5220	5860	6510	7930	8670	3540	4100	4660	5270	5870	6520	7200
3380	4360	4870	5400	5950				3760	4220	4690				

LOW TEMP Capacity (Btu/hr) at 100° Ambient - Evap Temp (°F)						Capacity (Btu/hr) at 110° Ambient - Evap Temp (°F)				
-25	-20	-15	-10	0		-25	-20	-15	-10	0
670	760	870	1000	1280			700	800	920	1190
560	640	740	840	1050		500	570	660	750	930
770	880	1000	1150	1480			800	920	1050	1360
770	880	1000	1150	1480			800	920	1050	1360
780	960	1150	1350	1810		600	780	970	1170	1630
780	960	1150	1350	1810		600	780	970	1170	1630
690	850	1010	1180	1530		520	670	830	990	1320
1050	1340	1640	1970	2660					1700	2350
1080	1280	1500	1720	2180		850	1050	1250	1470	1900
1080	1280	1500	1720	2180		850	1050	1250	1470	1900
1110	1340	1590	1860	2430		870	1080	1320	1570	2130
1110	1340	1590	1860	2430		870	1080	1320	1570	2130
1780	2210	2640	3070	3940			1850	2240	2640	3410

Capacity at 60 Hertz with 5° subcooling
 HT models are rated at 65°F return gas temperature
 LT& MT models are rated at 40°F return gas temperature

Copeland Copevap Air-Cooled Condensing Units

Physical/Electrical Data

HIGH/MED TEMP Model	Compressor	Overall Dimensions (in.)			Connecting Lines		Minimum Circuit Ampacity - Max Fuse Size		Pump Down Capacity (lbs)	Ship Weight (lbs)
		L	W	H	Suction	Liquid	115-1-60	230-1-60		
M2EH-0026-IAA	ARE27C3E-IAA	16.0	14.3	10.6	3/8 S	1/4 S	6.9 -15		2.3	41
M2PH-0026-IAA	ARE27C3E-IAA	19.9	11.1	10.6	3/8 S	1/4 S	6.9 -15		2.3	41
MCEH-0027-IAA	ARE36C3-IAA	16.0	14.3	10.6	3/8 S	1/4 S	9.1-15		2.5	42
MCPH-0027-IAA	ARE36C3-IAA	19.9	11.1	10.6	3/8 S	1/4 S	9.1-15		2.5	42
M4EH-0025-IAA	ASE19C3E-IAA	16.0	14.3	10.6	3/8 S	1/4 S	7.3-15			36
M4PH-0025-IAA	ASE19C3E-IAA	19.9	11.1	10.6	3/8 S	1/4 S	10.7-15		2.2	41
M2EH-A033-IAA, IAV	ARE37C3E-IA*	16.0	14.3	10.6	3/8 S	1/4 S	9.9 -15	4.9 -15	2.5	46
M2PH-A033-IAA, IAV	ARE37C3E-IA*	19.9	11.1	10.6	3/8 S	1/4 S	9.9 -15	4.9 -15	2.5	46
MCEH-0035-IAA	ARE43C3-IAA	16.2	15.1	11.8	3/8 S	1/4 S	9.8-15		2.9	47
MCPH-0035-IAA	ARE43C3-IAA	19.9	11.1	10.6	3/8 S	1/4 S	9.8-15		2.9	47
M4EH-A035-IAA, IAV	ASE24C3E-IA*	16.2	15.1	11.8	3/8 S	1/4 S	8.4-15	5.9-15	2.7	45
M4PH-A035-IAA, IAV	ASE24C3E-IA*	19.9	11.1	10.6	3/8 S	1/4 S	8.4-15	5.9-15	2.7	45
M2EH-0047-IAA, IAV	ART51C1E-IA*	16.2	15.1	11.8	3/8 S	1/4 S	12.5 -20	6.6 -15	2.9	50
M2PH-0047-IAA, IAV	ART51C1E-IA*	16.2	15.1	11.8	3/8 S	1/4 S	12.5 -20	6.6 -15	2.9	50
M2EM-0048-IAA	ART62C1E-IAA	16.2	15.1	11.8	3/8 S	1/4 S	14.6-20	7.4-15	3.7	55
MCEH-0048-CAA, CAV	ARE59C3-CA*	16.2	15.1	11.8	3/8 S	1/4 S	10.9-15	5.6-15	3.3	54
M4EH-0049-CAA, CAV	ASE32C3E-CA*	16.2	15.1	11.8	3/8 S	1/4 S	12.4-20	6.7-15	3.4	50
FTEH-B075-IAA, IAV	RR81C2E-IA*	24.0	16.8	13.7	5/8 RS	3/8 S	18.6-25	10.7-15	5.0	114
F3EH-A078-IAA, IAV	RS47C2-IA*	24.0	16.8	13.7	5/8 RS	3/8 S	19.9-30	10.1-15	6.1	102
FJEF-B078-CAA, CAV	RS55C2E-CA*	24.0	16.8	13.7	5/8 RS	3/8 S	18.5-25	8.8-15	7.2	96

LOW TEMP Model	Compressor	Overall Dimensions (in.)			Connecting Lines		Minimum Circuit Ampacity - Max Fuse Size		Pump Down Capacity (lbs)	Ship Weight (lbs)
		L	W	H	Suction	Liquid	115-1-60	230-1-60		
M2PL-A025-IAA	AFE10C3E-IAA	19.9	11.1	10.6	3/8 S	1/4 S	6.8-15			36
M4PL-0025-IAA	AFB09C3E-IAA	19.9	11.1	10.6	3/8 S	1/4 S	6.7-15		2.2	40
M2EL-B033-IAA	AFE12C3E-IAA	16.0	14.3	10.6	3/8 S	1/4 S	7.0-15		2.5	47
M2PL-B033-IAA	AFE12C3E-IAA	19.9	11.1	10.6	3/8 S	1/4 S	7.0-15		2.5	47
M2EL-0040-IAA	AFT12C1E-IAA	16.0	14.3	10.6	3/8 S	1/4 S	7.1-15		2.5	47
M2PL-0040-IAA	AFT12C1E-IAA	19.9	11.1	10.6	3/8 S	1/4 S	7.1-15		2.5	47
M4EL-0033-IAA	AFE11C3E-IAA	16.0	14.3	10.6	3/8 S	1/4 S	8.0-15		2.2	41
FTEL-A050-IAA, IAV	RF18C2E-IA*	16.0	15.2	12.7	1/2 RS	1/4 S	17.0-25	9.8-15	3.6	64
M4EL-0039-IAA	AFE13C3E-IAA	16.2	15.1	11.8	3/8 S	1/4 S	7.9-15		2.5	47
M4PL-0039-IAA	AFE13C3E-IAA	19.9	11.1	10.6	3/8 S	1/4 S	7.9-15		2.5	47
M4EL-0050-IAA	AFT18C1E-IAA	16.2	15.1	11.8	3/8 S	1/4 S	10.8-15		2.9	55
M4PL-0050-IAA	AFT18C1E-IAA	19.9	11.1	10.6	3/8 S	1/4 S	10.8-15		2.9	55
FJEF-A075-CAA, IAV	RS64C2E-CAA,IAV	20.8	16.8	13.7	5/8 RS	3/8 S	20.2-30	10.8-20	4.8	114

S - Sweat
RS - Rotalock Sweat

COPEVAP UNIT FEATURES						
BOM	Suction Valve	Liquid Connections		BX Conduit	Fan Guard	UR/UL
		Base Valve	Receiver w/ Valve			
020	•		•	•	•	UL
111	•	•		W/Powercord		UR*
208	•	•		•	•	UR*
212	•		•	•	•	UR*

* These recognized models are identical to the UL listed models less pressure control. Need for the control is to be evaluated by the end use application.

Certified Copeland takes peace of mind to a **WHOLE** new level.

When is a replacement compressor truly as good as new? Only when it's a Certified Copeland® compressor. That's because only Certified Copeland compressors are remanufactured from the ground up – more than 500 parts replaced or upgraded.

Every Certified Copeland compressor has been UL approved. So you know they've been remanufactured to meet the same stringent standards as our new compressors. And every Certified Copeland compressor has been tested and retested for optimum reliability and performance.

That means unparalleled peace of mind for you – and your customers.



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Copeland Copelametic Air-Cooled Condensing Units

Nomenclature

To place an order determine:

- (1) Model
- (2) Voltage
- (3) Bill of Material (BOM)

Example: C3AM-0101 -CAV -001
Model **voltage** **BOM**
 1+2+3 = complete model number

Models and voltages that are in bold type will be available from stock at the Indiana distribution center. Lead time on all others will be five weeks from receipt of order. Normal lead time on the stock models will be one week unless requested on a rush basis.

C **3** **A** **M** - **0101** - **CAV** - **001**

Product Line
C = Receiver Base
E = Flat Metal Base
D = Flat Base/ Dual Fan

Compressor Type
A = Conventional Copelametic Compressor
D = Discus Copelametic Compressor

Nominal H.P.
(1 H.P. shown)

Electric Nomenclature (voltage - phase - 60 hertz)					
115-1	230-1	208/230-1	208-230-3	460-3	575-3
IAA			TAC	TAD	
CAA	CAB	CAV	TFC	TFD	TFE

Refrigerant				
	R-12	R-22	R-404A	R-134a
B/7	•			
3/L/M		•		
8		•	•	
J			•	
N		•	•	•
P			•	•
T				•

Unit Features						
BOM	Connections			Head Pressure Control	Crank Case Heater	UL/UR
	Suction Valve	Liquid Receiver w/Valve	Electrical BX Conduit			
001	•	•	•			UL

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Application				
	R-12	R-22	R-404A	R-134a
H	High Temp Range (10 to 45° F)			
M	Medium Temp Range (0 to 25° F)			
L	Low Temp Range (-40 to 0° F)			
B	HT/MT			
G		LT	LT	HT
J		HT	MT	
K			LT	HT

Copeland Copelametic Air-Cooled Condensing Units

Summary Data

MODEL	Compressor	H.P.	Fans	Refrigerant				
				R-12	R-22	R-404A	R-507*	R-134a
EBAM-A025-IAA	HAF*-0025	1/4	1	MT				
EBAM-A033-IAA	HAJ*-0033	1/3	1	MT				
E8AL-A033-IAA	HAF*-003E	1/3	1		LT	LT	LT	
E3AH-A050-CAA,CAV,TAC	HAG*-0050	1/2	1		HT			
E8AM-A050-CAV,TAC	HAJ*-005E	1/2	1		MT	MT	MT	
E8AL-A050-CAV	KAN*-005E	1/2	1		LT	LT	LT	
EJAL-A050-TAC	KAN*-006E	1/2	1			LT	LT	
ENAG-A050-IAA	KAN*-005E	1/2	1		LT	LT		HT
E3AM-A075-CAA,CAV,TAC	KAE*-0075	3/4	1		MT			
E8AJ-A075-CAV,TAC	KAN*-007E	3/4	1		HT	MT	MT	
E8AL-A075-CAA,TAC	KAM*-007E	3/4	1		LT	LT	LT 1	
C8AJ-0075-CAV,TAC	KAN*-007E	3/4	1		HT	MT	MT	
C8AL-0075-CAA,TAC	KAM*-007E	3/4	1		LT	LT	LT 1	
ENAG-A075-CAV	KAM*-007E	3/4	1		LT	LT		HT
CNAG-0075-CAV	KAM*-007E	3/4	1		LT	LT		HT
C7AB-0100-CAV,TAC,TAD	KAJ*-0100	1	1	HT				
CBAM-0103-CAV,TAC,TAD	KAK*-0100	1	1	MT				
C8AJ-0100-CAV,TAC,TAD	KAR*-010E	1	1		HT	MT	MT 2	
E8AJ-A100-CAV,TAC,TAD--	KAR*-010E	1	1		HT	MT	MT 2	
E3AM-A101-CAV, TAC, TAD	KAM*-0100	1	1		MT			
C3AM-0101-CAV,TAC,TAD	KAM*-0100	1	1		MT			
CNAG-0100-CAV,TAC	KAJ*-010E	1	1		LT	LT	LT 2	HT
ENAG-A100-CAV,TAC	KAJ*-010E	1	1		LT	LT	LT 2	HT
C7AB-0150-CAV,TAC,TAD	KAL*-0150	1 1/2	1	HT				
CBAM-0153-CAV,TAC,TAD	KAT*-0150	1 1/2	1	MT				
E3AH-A151-CAV,TAC,TAD	KAG*-0150	1 1/2	1		HT			
C3AH-0150-CAV,TAC,TAD	KAG*-0150	1 1/2	1		HT			
CLAL-0152-CAB	EAD*-0200	1 1/2	1		LT			
C8AL-0151-TAC	EAD*-020E	1 1/2	1		LT	LT	LT	
EJAL-A150-TAD	KAL*-016E	1 1/2	1			LT	LT	
CJAL-0152-TAD	KAL*-016E	1 1/2	1			LT	LT	
CJAL-0153-CAB	EAD*-021E	1 1/2	1			LT		
EPAK-A150-CAV,TAC	KAL*-015/6E	1 1/2	1			LT	LT	HT
CPAK-0150-CAV,TAC	KAL*-015/6E	1 1/2	1			LT	LT	HT
C7AB-0200-CAB,TAC,TAD	EAV*-0200	2	1	HT				
D8AJ-0200-CAV,TAC	KAK*-020E	2	2		HT	MT	MT	
D8AM-0201-TAC,TAD	ERC*-021E	2	2		MT	MT	MT	
C3AH-0204-TAD	KAK*-0200	2	1		HT			
C3AM-0202-CAB	ERC*-0200	2	1		MT			
C8AJ-0200-CAV,TAC	KAK*-020E	2	1		HT	MT	MT	
C8AM-0202-TAC,TAD	ERC*-021E	2	1		MT	MT	MT	
C8AL-0200-TAD	EAV*-021E	2	1		LT	LT	LT	
DNAG-0200-CAV,TAC	EAV*-021E	2	2		LT	LT	LT	HT
CNAG-0200-CAV,TAC	EAV*-021E	2	1		LT	LT	LT	HT
C7AB-0300-CAB,TAC,TAD	LAH*-0310	3	1	HT				
D8AJ-0300-TAC,TAD	ERF*-031E	3	2		HT	MT	MT	
D3AM-0303-CAB,TAC,TAD	3RA*-0310	3	2		MT			
C8AJ-0300-TAC,TAD	ERF*-031E	3	1		HT	MT	MT	
C3AH-0303-CAB	ERF*-0310	3	1		HT			
C3AM-0303-CAB,TAC,TAD	3RA*-0310	3	1		MT			
CLAL-0300-CAB,TAC,TAD	LAH*-0311	3	1		LT			
DLAL-0301-CAB,TAC,TAD	LAH*-0311	3	2		LT			
DJAL-0300-CAB,TAC,TAD	LAH*-032E	3	2			LT	LT 3	
CJAL-0300-CAB,TAC,TAD	LAH*-032E	3	1			LT	LT 3	
DTAH-0300-CAB	LAH*-031E	3	2					HT
CTAH-0300-CAB	LAH*-031E	3	1					HT
CPDK-0300-TFC,TFD,TFE	2DF*-030E	3	1			LT	LT	HT
CMDL-0400-TFC,TFD,TFE	2DL*-0400	4	1			LT		
CJDL-0400-TFC,TFD,TFE	2DL*-040E	4	1			LT	LT	
C8DJ-0500-TFC,TFD,TFE	2DC*-050E	5	1		HT	MT	MT	
C8DJ-0501-TFC,TFD,TFE	2DD*-050E	5	1		HT	MT	MT	
CPDK-0600-TFC,TFD,TFE	2DA*-060E	6	1			LT	LT	HT
CPDK-0601-TFC,TFD,TFE	3DA*-060E	6	1			LT	LT	HT
C8DJ-0750-TFC,TFD,TFE	2DA*-075E	7 1/2	1		HT	MT	MT	
CPDK-0750-TFC,TFD,TFE	3DB*-075E	7 1/2	1			LT	LT	HT
CPDK-0900-TFC,TFD,TFE	3DF*-090E	9	2			LT	LT	HT
C8DJ-1000-TFC,TFD,TFE	3DB*-100E	10	2		HT	MT	MT	
CPDK-1000-TFC,TFD,TFE	3DS*-100E	10	2			LT	LT	HT

Copeland Copelametic Air-Cooled Condensing Units

Capacity Data

HIGH/MED TEMP Model	BOM	Refrig.	H.P.	BTU/HR Capacity at 90° F Ambient Evaporator Temp (°F)									
				-5	0	+10	+15	+20	+25	+30	+35	+40	+45
EBAM-A025-IAA	001	R-12	1/4	790	940	1230	1390	1550	1740				
EBAM-A033-IAA	001	R-12	1/3	1240	1440	1830	2030	2240	2470				
E3AH-A050-CAA,CAV,TAC	001	R-22	1/2		2160	2720	3030	3370	3740	4120	4530	4960	5400
E8AM-A050-CAV,TAC	001	R-22	1/2	2250	2540	3230	3610	4000	4390				
E8AM-A050-CAV,TAC	001	R-404A	1/2	2430	2700	3410	3790	4170	4530				
ENAG-A050-IAA	001	R-134a	1/2		2050	2510	2800	3120	3480	3850	4240	4650	5050
C8AJ-0075-CAV,TAC	001	R-22	3/4		3410	4370	4910	5490	6110	6760	7460	8190	8960
E8AJ-A075-CAV,TAC	001	R-22	3/4		3420	4390	4950	5540	6170	6850	7560	8310	9100
E3AM-A075-CAA,CAV,TAC	001	R-22	3/4	3600	4100	5160	5750	6400	7120				
E8AJ-A075-CAV,TAC	001	R-404A	3/4	3150	3580	4620	5200	5800	6420				
C8AJ-0075-CAV,TAC	001	R-404A	3/4	3110	3530	4540	5100	5680	6290				
CNAG-0075-CAV	001	R-134a	3/4	2880	3310	4270	4800	5360	5950	6570	7210	7890	
ENAG-A075-CAV	001	R-134a	3/4	2880	3310	4290	4830	5390	5990	6620	7270	7960	
C7AB-0100-CAV,TAC,TAD	001	R-12	1		4400	5520	6150	6810	7520	8260	9040	9860	10710
CBAM-0103-CAV,TAC,TAD	001	R-12	1	4510	5040	6290	6980	7720	8500				
C8AJ-0100-CAV,TAC,TAD	001	R-22	1		4750	6020	6740	7510	8320	9170	10060	10980	11930
C3AM-0101-CAV,TAC,TAD	001	R-22	1		5520	7150	8040	8980	9970				
E8AJ-A100-CAV,TAC,TAD	001	R-22	1		4800	6080	6800	7560	8370	9210	10080	10980	11900
E3AM-A101-CAV,TAC,TAD	001	R-22	1		5610	7290	8190	9150	10170				
E8AJ-A100-CAV,TAC,TAD	001	R-404A	1	4770	5300	6600	7280	7940	8580				
C8AJ-0100-CAV,TAC,TAD	001	R-404A	1	4720	5240	6550	7240	7930	8580				
CNAG-0100-CAV,TAC	001	R-134a	1		4580	5770	6450	7170	7950	8770	9630	10540	11500
ENAG-A100-CAV,TAC	001	R-134a	1		4360	5470	6090	6750	7440	8170	8920	9700	10500
C7AB-0150-CAV,TAC,TAD	001	R-12	1 1/2		6160	7800	8720	9720	10780	11900	13080	14310	15580
CBAM-0153-CAV,TAC,TAD	001	R-12	1 1/2	6660	7590	9480	10460	11470	12510				
E3AH-A151-CAV,TAC,TAD	001	R-22	1 1/2		6110	7660	8600	9640	10770	11990	13280	14650	16080
C3AH-0150-CAV,TAC,TAD	001	R-22	1 1/2		6010	7510	8430	9450	10570	11770	13050	14410	15840
EPAK-A150-CAV,TAC	001	R-134a	1 1/2		6290	8020	8970	9990	11060	12190	13370	14590	15860
CPAK-0150-CAV,TAC	001	R-134a	1 1/2		6400	8180	9170	10230	11350	12540	13770	15060	16400
C7AB-0200-CAB,TAC,TAD	001	R-12	2		8860	11210	12460	13770	15140	16550	18010	19520	21060
D8AJ-0200-CAV,TAC	001	R-22	2		8080	11010	12480	13990	15570	17220	18970	20830	22830
D8AM-0201-TAC,TAD	001	R-22	2	8220	9410	12240	13860	15620	17510				
C8AJ-0200-CAV,TAC	001	R-22	2		7820	10600	11990	13410	14870	16400	18010	19690	21490
C3AH-0204-TAD	001	R-22	2		7820	10600	11990	13410	14870	16400	18010	19690	21490
C3AM-0202-CAB	001	R-22	2	8200	9380	12100	13660	15370	17240				
C8AM-0202-TAC,TAD	001	R-22	2	8200	9380	12160	13740	15450	17270				
D8AJ-0200-CAV,TAC	001	R-404A	2	8150	8950	11300	12620	13940	15170				
D8AM-0201-TAC,TAD	001	R-404A	2	9720	11060	13870	15360	16950	18680				
C8AJ-0200-CAV,TAC	001	R-404A	2	7800	8530	10700	11900	13070	14150				
C8AM-0202-TAC,TAD	001	R-404A	2	9670	10970	13730	15170	16700	18350				
DNAG-0200-CAV,TAC	001	R-134a	2		8370	11060	12530	14080	15740	17510	19390	21400	23530
CNAG-0200-CAV,TAC	001	R-134a	2		8060	10560	11900	13320	14820	16410	18100	19900	21820
C7AB-0300-CAB,TAC,TAD	001	R-12	3		14560	18180	20200	22370	24680	27130	29710	32420	35260
D8AJ-0300-TAC,TAD	001	R-22	3		14840	18890	21110	23480	26010	28690	31530	34530	37710
D3AM-0303-CAB,TAC,TAD	001	R-22	3	14880	17000	21720	24250	26920	29700				
C3AH-0303-CAB	001	R-22	3		14450	18720	21080	23590	26260	29090	32080	35240	38590
C8AJ-0300-TAC,TAD	001	R-22	3		14950	19030	21280	23690	26260	28990	31910	35000	38300
C3AM-0303-CAB,TAC,TAD	001	R-22	3	15000	17150	21940	24510	27230	30070				
D8AJ-0300-TAC,TAD	001	R-404A	3	14560	16380	20520	22780	25180	27740				
C8AJ-0300-TAC,TAD	001	R-404A	3	14620	16470	20720	23040	25540	28200				
DTAH-0300-CAB	001	R-134a	3		15090	18100	19940	21970	24170	26520	28990	31560	34190
CTAH-0300-CAB	001	R-134a	3		15210	18300	20190	22290	24560	27000	29570	32250	35030
CPDK-0300-TFC,TFD,TFE	001	R-134a	3		18920	24260	27180	30310	33630	37160	40920	44870	49080
C8DJ-0500-TFC,TFD,TFE	001	R-22	5			29160	32890	36820	40970	45360	49990	54840	59970
C8DJ-0501-TFC,TFD,TFE	001	R-22	5			33500	37620	41950	46500	51280	56290	61490	66970
C8DJ-0500-TFC,TFD,TFE	001	R-404A	5	21960	24680	31030	34520	38200	42050	46070	50230	54470	
C8DJ-0501-TFC,TFD,TFE	001	R-404A	5	26210	29260	36420	40330	44420	48670	53030	57490	61940	
CPDK-0600-TFC,TFD,TFE	001	R-134a	6		25170	32560	36690	41110	45840	50890	56260	61940	67970
CPDK-0601-TFC,TFD,TFE	001	R-134a	6		29840	38530	43290	48360	53740	59440	65490	71850	78580
C8DJ-0750-TFC,TFD,TFE	001	R-22	7 1/2			49900	56100	62440	69020	75840	82920	90210	97790
C8DJ-0750-TFC,TFD,TFE	001	R-404A	7 1/2	39970	44400	54330	59700	65330	71230	77380	83770	90290	
CPDK-0750-TFC,TFD,TFE	001	R-134a	7 1/2		34270	44200	49610	55350	61430	67870	74670	81800	89330
CPDK-0900-TFC,TFD,TFE	001	R-134a	9		42180	54770	61530	68680	76270	84350	92980	102150	111990
C8DJ-1000-TFC,TFD,TFE	001	R-22	10			76160	84310	92970	102160	111890	122170	132940	144320
C8DJ-1000-TFC,TFD,TFE	001	R-404A	10	57480	64030	78460	86250	94430	103000	111970	121330	130970	
CPDK-1000-TFC,TFD,TFE	001	R-134a	10		46010	59580	66910	74680	82950	91760	101170	111160	121860

Bold - Stock Item

Copeland Copelametic Air-Cooled Condensing Units

Capacity Data

HIGH/MED TEMP BTU/Hr Capacity at 100° F Ambient Evaporator Temp (°F)										HIGH/MED TEMP BTU/Hr Capacity at 110° F Ambient Evaporator Temp (°F)									
-5	0	+10	+15	+20	+25	+30	+35	+40	+45	-5	0	+10	+15	+20	+25	+30	+35	+40	+45
680	820	1090	1240	1400						570	690								
1100	1290	1670	1860							970	1170								
	1980	2490	2790	3100	3430	3780	4150	4540			1790	2260	2530	2820	3120				
2030	2300	2940	3300	3660	4030					1810	2060	2670	3000	3350	3690				
2130	2380	3020	3360	3700	4020					1840	2060	2630	2930	3230	3510				
	1910	2280	2540	2820	3140	3480	3830	4190	4570		1720	2010	2230	2480	2750	3050			
	3110	4000	4500	5040	5610	6220	6860	7540	8240		2800	3630	4090	4590	5110	5670	6260		
	3120	4020	4530	5090	5670	6300	6960	7650	8380		2810	3650	4120	4630	5170	5740	6350	6990	3000
3310	3750	4720	5260	5870	6550					3400	4270	4770	5330	5960					
2740	3130	4080	4600	5140	5700					2340	2690	3540	4000	4480	4980				
2700	3080	4010	4510	5030	5570					2310	2640	3460	3910	4370	4850				
2620	3020	3900	4390	4900	5440	6010	6600	7220		2360	2720	3520	3960	4420	4920	5430	5970		
2620	3030	3920	4410	4930	5490	6070	6670	7300		2360	2720	3540	3990	4460	4960	5490	6040	6620	3650
	4030	5050	5620	6230	6880	7560	8280	9040	9830	4570	5090	5650	6240	6860					
4110	4590	5730	6370	7050						3720	4150								
	4310	5500	6170	6890	7640	8840	9270	10140			3800	4990	5620	6290	7000				
	5030	6540	7360	8230	9170						4570	5970	6730	7560	8440				
	4360	5560	6230	6950	7710	8500	9320	10170			3930	5060	5690	6360	7070				
	5110	6670	7570	8410	9360						4630	6080	6870	7710	8610				
4260	4730	5900	6530	7140	7710					3720	4130	5190	5750	6310	6830				
4200	4660	5850	6490	7120	7720					3650	4030	5110	5690	6270	6820				
	4210	5310	5930	6600	7310	8060	8860	9700	10590		3830	4840	5410	6020	6670	7360	8090	8860	9670
	3990	5020	5590	6200	6840	7510	8210	8930	9670		3620	4560	5080	5630	6220	6830			
	5730	7230	8090	9000	9980	11010	12100	13250	14450		5260	6620	7400	8230	9130				
6450	7190	8650	9370	10090						5830	6290								
	5600	7020	7900	8880	9950	11110	12360	13670	15060		5140	6440	7270	8190	9220	10330	11520		
	5520	6890	7740	8700	9750	10900	12120	13440	14820		5080	6330	7130	8030	9040	10130			
	5770	7380	8270	9220	10220	11280	12380	13530	14720		5210	6710	7540	8420	9360	10340	11360		
	5870	7540	8480	9470	10520	11620	12790	14000	15260		5320	6870	7740	8660	9640	10680	11760	12900	7480
	8190	10330	11480	12670	13920	15200	16540	17910		9420	10450	11520	12640						
	7360	10210	11630	13070	14560	16120	17760	19500	21370		6640	9410	10770	12140	13540	14990	16520	18140	19870
7490	8600	11220	12720	14340	16080					6740	7790	10220	11600	13090	14680				
	7110	9810	11140	12490	13860	15290	16780	18340	20010		6400	9010	10270	11530	12810				
	7110	9810	11140	12490	13860	15290	16780	18340	20010		6400	9010	10270	11530	12810				
7470	8540	11030	12470	14060	15820					6720	7690	9970	11300	12780	14420				
7470	8580	11160	12620	14190	15860					6740	7780	10170	11520	12970	14500				
7280	8000	10150	11350	12520	13580					6420	7060	9010	10080	11110	12010				
8580	9790	12350	13710	15160	16750					7450	8540	10840	12060	13380	14830				
6940	7600	9570	10660	11700	12630					6090	6670	8460	9430	10350	11130				
8540	9720	12250	13550	14950	16470					7440	8500	10780	11950	13210	14600				
	7580	10090	11450	12900	14440	16090	17860	19740	21750		6800	9120	10380	11710	13130	14660	16300	18060	6560
	7300	9620	10870	12180	13570	15050	16630	18320	20110	8730	9870	11070	12340						
	13460	16750	18610	20600	22720	24980	27370	29880	32520		12320	15280	16950	18750	20680	22740	24930	27230	29660
	13570	17410	19520	21770	24150	26690	29370	32200	35210		12300	15970	17970	20090	22330	24720	27250	29920	11730
13340	15290	19710	22130	24710	27420					13540	17680	20020	22520	25160					
	13150	17140	19370	21760	24320	27060	29970	33050	36340		11870	15670	17810	20130	22630	25310	28190	31240	12410
	13680	17530	19660	21930	24360	26940	29690	32610	35720	16070	18080	20210	22500	24930	27520	30260	33200		
13460	15430	19900	22350	24980	27740					850	13660	17840	20210	22750	25440				
12920	14590	18420	20490	22690	25020					11280	12820	16310	18190	20180	22300				
12960	14660	18580	20710	22990	25430					11300	12850	16410	18340	20410	22620				
	14000	16750	18450	20330	22370	24560	26860	29250	31720		12870	15340	16890	18610	20500	22520	24650	26890	12970
	14110	16890	18620	20550	22660	24910	27300	29810	32400	15470	17030	18790	20730	22810	25020	27340	29740		
	17420	22350	25060	27960	31050	34370	37900	41640	45640		15830	20430	22970	25670	28570	31660			
		26580	30120	33850	32790	41950	46340	50940	55820			24070	27440	30990	34730	38670			
		30720	34630	38730	43030	47550	52280	57210				28030	31730	35610	39670				
19800	22260	28020	31190	34540	38050	41710	45500	49380		17680	19890	25100	27970	31000	34180	37510	40970	44510	21500
23830	26550	32990	36510	40210	44040	47980	52000	56030		23880	29580	32710	36000	39430	42960				
	23370	30230	34060	38170	42570	47280	52290	57600	63260		21430	27820	31390	35210	39310	43700	48380	53350	58660
	27480	35740	40240	45010	50060	55410	61080	67040	73370		25010	32920	37180	41690	46440	51470	56800	62390	68330
		45960	51850	57920	64170	70630	77310	84150	91260			41760	47450	53270	59230	65340			
36280	40390	49520	54430	59560	64930	70520	76330	82280		32610	36420	44820	49290	53960	58830	63910	69210		
	31520	40950	46060	51450	57160	63200	69570	76260	83340		28650	37670	42500	47580	52930	58570	64540		
	38810	50710	57070	63780	70900	78500	86610	95260	104560		35510	46820	52830	59160	65870	73020	80670	88830	97640
		71270	78970	87150	95810	104990	114670	124820	135560			66310	73560	81240	89390	98010	107110		
52840	58890	72110	79200	86620	94380	102490	110950	119660		48100	53690	65760	72170	78860	85840	93140	100750	108610	
	42430	55220	62110	69410	77180	85460	94330	103760	113900		38940	51040	57520	64380	71670	79460	87810	96710	106320

Copeland Copelametic Air-Cooled Condensing Units

Capacity Data

LOW TEMP Model	BOM	Refrig	H.P.	BTU/Hr Capacity at 90° F Ambient Evaporator Temp (°F)								
				-40	-35	-30	-25	-20	-15	-10	-5	0
E8AL-A033-IAA	001	R-22	1/3	350	500	660	810	980	1150	1330	1520	1720
E8AL-A033-IAA	001	R-404A	1/3	530	680	810	950	1120	1320	1570	1870	2240
ENAG-A050-IAA	001	R-22	1/2	720	910	1140	1400	1680	1990	2320	2660	3010
E8AL-A050-CAV	001	R-22	1/2	720	910	1140	1400	1680	1990	2320	2660	3010
ENAG-A050-IAA	001	R-404A	1/2	820	1030	1260	1520	1810	2110	2420	2750	3050
E8AL-A050-CAV	001	R-404A	1/2	820	1030	1260	1520	1810	2110	2420	2750	3050
EJAL-A050-TAC	001	R-404A	1/2	750	950	1180	1430	1700	1990	2290	2610	2930
ENAG-A075-CAV	001	R-22	3/4	1680	2010	2390	2810	3280	3780	4310	4870	5450
E8AL-A075-CAA,TAC	001	R-22	3/4	1480	1820	2190	2600	3040	3510	4030	4570	5150
CNAG-0075-CAV	001	R-22	3/4	1690	2020	2390	2800	3260	3760	4280	4830	5400
C8AL-0075-CAA,TAC	001	R-22	3/4	1490	1830	2200	2600	3030	3500	4000	4540	5100
ENAG-A075-CAV	001	R-404A	3/4	1920	2160	2500	2910	3390	3910	4470	5040	5590
E8AL-A075-CAA,TAC	001	R-404A	3/4	1590	1930	2310	2740	3200	3690	4210	4750	5280
CNAG-0075-CAV	001	R-404A	3/4	1910	2150	2480	2890	3360	3870	4410	4970	5500
C8AL-0075-CAA,TAC	001	R-404A	3/4	1580	1920	2300	2710	3170	3650	4150	4680	5180
ENAG-A100-CAV,TAC	001	R-22	1	2130	2560	3030	3530	4080	4670	5310	6000	6740
CNAG-0100-CAV,TAC	001	R-22	1	2240	2690	3170	3690	4260	4890	5570	6310	7110
ENAG-A100-CAV,TAC	001	R-404A	1	2410	2850	3340	3860	4420	5020	5650	6310	6990
CNAG-0100-CAV,TAC	001	R-404A	1	2470	2940	3450	4010	4610	5260	5960	6700	7430
CLAL-0152-CAB	001	R-22	1 1/2	3110	3870	4690	5580	6550	7580	8700	9900	11170
C8AL-0151-TAC	001	R-22	1 1/2	3410	4170	5000	5890	6850	7890	9000	10190	11440
EPAK-A150-CAV,TAC	001	R-404A	1 1/2	3340	4120	4890	5660	6450	7270	8110	9010	9880
EJAL-A150-TAD	001	R-404A	1 1/2	3340	4120	4890	5660	6450	7270	8110	9010	9880
CPAK-0150-CAV,TAC	001	R-404A	1 1/2	3650	4340	5090	5880	6740	7660	8620	9650	10680
CJAL-0152-TAD	001	R-404A	1 1/2	3420	4220	5020	5830	6660	7520	8420	9380	10350
CJAL-0153-CAB	001	R-404A	1 1/2	3920	4640	5460	6360	7370	8450	9620	10870	12130
C8AL-0151-TAC	001	R-404A	1 1/2	3800	4630	5490	6400	7370	8420	9540	10760	12010
DNAG-0200-CAV,TAC	001	R-22	2	4270	5030	5960	7040	8280	9650	11140	12740	14420
CNAG-0200-CAV,TAC	001	R-22	2	4200	4930	5810	6830	7980	9240	10600	12050	13530
C8AL-0200-TAD	001	R-22	2	4110	4700	5540	6570	7750	9050	10430	11840	13240
DNAG-0200-CAV,TAC	001	R-404A	2	4820	5710	6700	7800	8990	10270	11620	13040	14460
CNAG-0200-CAV,TAC	001	R-404A	2	4590	5440	6390	7430	8540	9720	10940	12210	13410
C8AL-0200-TAD	001	R-404A	2	4130	4950	5910	6990	8180	9440	10760	12120	13420
DLAL-0301-CAB,TAC,TAD	001	R-22	3	5830	6980	8490	10300	12360	14610	17010	19480	21960
CLAL-0300-CAB,TAC,TAD	001	R-22	3	5860	7020	8530	10350	12430	14700	17120	19630	22150
DJAL-0300-CAB,TAC,TAD	001	R-404A	3	6340	7950	9730	11670	13760	15980	18300	20710	23070
CJAL-0300-CAB,TAC,TAD	001	R-404A	3	6330	7950	9750	11710	13840	16100	18470	20950	23380
CPDK-0300-TFC,TFD,TFE	001	R-404A	3	10300	12220	14310	16560	18970	21530	24250	27130	29960
CMDL-0400-TFC,TFD,TFE	001	R-22	4	9610	11650	13980	16590	19450	22530	25840	29350	32970
CJDL-0400-TFC,TFD,TFE	001	R-404A	4	12860	15180	17670	20340	23190	26210	29430	32830	36260
CPDK-0600-TFC,TFD,TFE	001	R-404A	6	15780	18550	21510	24660	28030	31630	35500	39620	43920
CPDK-0601-TFC,TFD,TFE	001	R-404A	6	19050	22090	25440	29090	33040	37270	41780	46550	51440
CPDK-0750-TFC,TFD,TFE	001	R-404A	7 1/2	22250	25920	29820	33990	38430	43140	48160	53480	58950
CPDK-0900-TFC,TFD,TFE	001	R-404A	9	27780	32310	37260	42650	48470	54730	61450	68620	76120
CPDK-1000-TFC,TFD,TFE	001	R-404A	10	31490	36530	42000	47890	54180	60830	67880	75280	82860

Bold - Stock Item

HT models are rated at 65° F return gas temperature

LT & MT models are rated at 40° F return gas temperature

Copeland Copelametic Air-Cooled Condensing Units

Capacity Data

LOW TEMP BTU/Hr Capacity at 100° F Ambient Evaporator Temp (°F)									LOW TEMP BTU/Hr Capacity at 110° F Ambient Evaporator Temp (°F)								
-40	-35	-30	-25	-20	-15	-10	-5	0	-40	-35	-30	-25	-20	-15	-10	-5	0
210	370	530	680	840	1000	1170	1340	1520									
420	560	690	810	960	1150	1370	1660	2010	320	450	560	680	810	980	1180	1450	1340
540	730	950	1200	1480	1770	2070	2390	2710	370	560	780	1020	1280	1550	1840		
540	730	950	1200	1480	1770	2070	2390	2710	370	560	780	1020	1280	1550	1840		
630	820	1040	1280	1530	1800	2080	2360	2620	440	610	800	1010	1230	1460	1700		
630	820	1040	1280	1530	1800	2080	2360	2620	440	610	800	1010	1230	1460	1700		
560	740	940	1170	1410	1670	1950	2250	2530	380	540	710	910	1130	1360	1610		
1510	1820	2180	2570	3000	3460	3960	4470	4990	1310	1610	1940	2300	2700	3120	3570	4030	
1260	1590	1940	2320	2740	3180	3660	4170	4710	1040	1350	1690	2050	2440	2850	3300	3780	
1520	1830	2180	2570	2990	3450	3930	4430	4950	1320	1610	1940	2300	2690	3110	3540		
1280	1600	1950	2320	2730	3170	3640	4140	4670	1060	1360	1690	2050	2430	2840	3280	3750	
1630	1850	2170	2550	3000	3480	3990	4520	5000	1250	1460	1760	2110	2520	2960	3420	3890	
1300	1620	1980	2370	2800	3250	3720	4220	4690	1000	1300	1640	2000	2390	2800	3230	3670	4090
1610	1840	2140	2520	2960	3430	3930	4440	4900	1230	1440	1730	2080	2470	2900	3350	3800	
1290	1610	1960	2350	2770	3210	3670	4150	4600	990	1290	1620	1980	2360	2760	3170	3600	
1900	2310	2750	3220	3740	4290	4880	5520	6200	1670	2060	2470	2910	3380	3880	4430		
2030	2450	2900	3390	3920	4500	5130	5820	6560	1790	2190	2620	3070	3570	4100	4680	5320	6000
2050	2460	2890	3360	3870	4410	4990	5590	6200	1710	2060	2450	2870	3320	3800	4320		
2100	2520	2990	3490	4040	4620	5260	5930	6600	1750	2120	2530	2970	3450	3970	4540	5140	5730
2680	3380	4130	4960	5850	6820	7860	9000	10200	2230	2880	3580	4350	5190	6100	7090	8160	
3000	3700	4460	5280	6170	7130	8160	9270	10440	2600	3230	3920	4680	5500	6380	7340		
2690	3460	4210	4940	5680	6430	7200	8000	8780	1960	2720	3450	4150	4850	5550	6250		
2690	3460	4210	4940	5680	6430	7200	8000	8780	1960	2720	3450	4150	4850	5550	6250		
3110	3770	4470	5220	6010	6860	7750	8680	9620	2500	3130	3790	4490	5230	6000	6810	7660	
2760	3560	4330	5100	5880	6670	7490	8360	9230	2000	2810	3580	4320	5060	5790	6540	7330	
3310	3930	4650	5460	6360	7340	8420	9570	10740	2910	3420	4020	4710	5500	6380	7350		
3140	3940	4750	5590	6490	7450	8470	9580	10700	2480	3240	4000	4770	5590	6450	7370		
3870	4570	5420	6410	7550	8800	10160	11610	13130	3370	4000	4770	5660	6680	7800	9020	10330	
3800	4460	5260	6180	7230	8360	9580	10870	12170	3300	3890	4590	5400	6320	7310			
3720	4250	5000	5930	7010	8190	9430	10710	11960	3200	3650	4320	5150	6110	7160			
3850	4780	5770	6840	7980	9170	10410	11690	12950	2760	3750	4770	5840	6940	8070	9220	10390	11500
3610	4500	5460	6480	7550	8650	9790	10940	12020	2550	3490	4470	5490	6540	7590			
3580	4300	5160	6140	7210	8360	9560	10800	11970	3220	3820	4560	5410	6360	7370			
5260	6330	7740	9420	11330	13400	15590	17830	20040	4490	5480	6760	8290	10020	11880	13830	15810	
5320	6400	7810	9500	11420	13500	15710	17980	20220	4610	5590	6880	8410	10140	12010	13970	15970	
4960	6520	8230	10060	12020	14070	16200	18400	20520	3530	5060	6700	8430	10260	12150	14100	16090	
4930	6510	8230	10090	12070	14160	16340	18600	20760	3480	5020	6680	8430	10280	12200	14190	16230	18150
8780	10680	12690	14830	17090	19460	21960	24570	27110	7090	8970	10930	12970	15090	17290	19580		
8350	10230	12390	14820	17490	20370	23470	26770	30190	7020	8740	10740	12990	15480	18160	21070		
11240	13440	15770	18260	20910	23700	26660	29790	32940	9590	11670	13850	16170	18610	21170	23890		
13910	16560	19350	22300	25430	28760	32310	36100	40030	11970	14510	17160	19920	22830	25890	29150	32610	36180
16960	19920	23120	26580	30280	34200	38370	42750	47220	14470	17370	20470	23760	27250	30900	34740	38770	
19870	23470	27230	31190	35360	39740	44370	49250	54240	17260	20840	24510	28310	32260	36340	40630		
25070	29430	34130	39200	44650	50460	56680	63290	70180	22230	26430	30910	35690	40770	46160	51890	57970	64270
28180	33010	38200	43750	49630	55820	62360	69200	76190	24770	29420	34370	39610	45140	50910	56980	63310	69740

Copeland Copelametic Air-Cooled Condensing Units

Physical Data

LOW TEMP		Oil Type	Overall Unit Dimensions (in.)			Connecting Lines		Minimum Circuit Ampacity					Pump Down Capacity (lbs)	Ship Weight (lbs)
Model	Compressor		L	W	H	Suction	Liquid	115-1	230-1	230-3	460-3	575-3		
E8AL-A033	HAF*-003E	POE	19.5	16.3	12.0	1/2 F	1/4 F	7.4					2.5	109
E8AL-A033	HAF*-003E	POE	19.5	16.3	12.0	1/2 F	1/4 F	7.4					2.2	109
ENAG-A050	KAN*-005E	POE	19.5	16.3	12.0	1/2 F	1/4 F	10.6					2.5	124
E8AL-A050	KAN*-005E	POE	19.5	16.3	12.0	1/2 F	1/4 F		5.1				2.5	124
ENAG-A050	KAN*-005E	POE	19.5	16.3	12.0	1/2 F	1/4 F	10.6					2.2	124
E8AL-A050	KAN*-005E	POE	19.5	16.3	12.0	1/2 F	1/4 F		5.1				2.2	124
EJAL-A050	KAN*-006E	POE	19.5	16.3	12.0	1/2 F	1/4 F			3.5			2.2	124
ENAG-A075	KAM*-007E	POE	24.0	17.9	13.3	5/8 F	3/8 F		8.2				6.2	160
E8AL-A075	KAM*-007E	POE	24.0	17.9	13.3	5/8 F	3/8 F	15.6		5.2			6.2	160
CNAG-0075	KAM*-007E	POE	33.5	20.0	19.0	5/8 F	3/8 F		8.2				20.0	190
C8AL-0075	KAM*-007E	POE	33.5	20.0	19.0	5/8 F	3/8 F	15.6		5.2			20.0	190
ENAG-A075	KAM*-007E	POE	24.0	17.9	13.3	5/8 F	3/8 F		8.2				5.4	160
E8AL-A075	KAM*-007E	POE	24.0	17.9	13.3	5/8 F	3/8 F	15.6		5.2			5.4	160
CNAG-0075	KAM*-007E	POE	33.5	20.0	19.0	5/8 F	3/8 F		8.2				17.2	190
C8AL-0075	KAM*-007E	POE	33.5	20.0	19.0	5/8 F	3/8 F	15.6		5.2			17.2	190
ENAG-A100	KAJ*-010E	POE	24.0	17.9	13.3	5/8 F	3/8 F		9.8	6.9			6.2	164
CNAG-0100	KAJ*-010E	POE	33.5	20.0	19.0	5/8 F	3/8 F		11.5	8.7			20.0	190
ENAG-A100	KAJ*-010E	POE	24.0	17.9	13.3	5/8 F	3/8 F		9.8	6.9			5.4	164
CNAG-0100	KAJ*-010E	POE	33.5	20.0	19.0	5/8 F	3/8 F		11.5	8.7			17.2	190
CLAL-0152	EAD*-0200	MIN	33.5	20.0	19.0	7/8 S	1/2 F		12.3				20.0	265
C8AL-0151	EAD*-020E	POE	33.5	20.0	19.0	7/8 S	1/2 F			10.3			20.0	265
EPAK-A150	KAL*-015/6E	POE	26.2	18.3	16.0	7/8 S	3/8 F		15.3	11.2			10.3	169
EJAL-A150	KAL*-016E	POE	26.2	18.3	16.0	7/8 S	3/8 F				5.9		10.3	169
CPAK-0150	KAL*-015/6E	POE	33.5	20.0	19.0	7/8 S	1/2 F		14.2	10.1			17.2	200
CJAL-0152	KAL*-016E	POE	33.5	20.0	19.0	7/8 S	1/2 F				5.5		17.2	200
CJAL-0153	EAD*-021E	POE	33.5	20.0	19.0	7/8 S	1/2 F		14.3				17.2	272
C8AL-0151	EAD*-020E	POE	33.5	20.0	19.0	7/8 S	1/2 F			10.3			17.2	265
DNAG-0200	EAV*-021E	POE	26.2	34.1	18.8	7/8 S	3/8 F		20.7	11.6			12.0	337
CNAG-0200	EAV*-021E	POE	33.5	20.0	19.0	7/8 S	1/2 F		20.2	11.1			20.0	275
C8AL-0200	EAV*-021E	POE	33.5	20.0	19.0	7/8 S	1/2 F				6.1		20.0	260
DNAG-0200	EAV*-021E	POE	26.2	34.1	18.8	7/8 S	3/8 F		20.7	11.6			10.3	337
CNAG-0200	EAV*-021E	POE	33.5	20.0	19.0	7/8 S	1/2 F		20.2	11.1			17.2	275
C8AL-0200	EAV*-021E	POE	33.5	20.0	19.0	7/8 S	1/2 F				6.1		17.2	260
DLAL-0301	LAH*-0311	MIN	26.2	34.1	18.8	1-1/8 S	3/8 F		26.6	19.2	9.7		12.0	380
CLAL-0300	LAH*-0311	MIN	39.0	30.0	29.5	1-1/8 S	1/2 F		25.2	17.8	8.9		53.0	465
DJAL-0300	LAH*-032E	POE	26.2	34.1	18.8	1-1/8 S	3/8 F		26.7	21.8	10.7		10.3	380
CJAL-0300	LAH*-032E	POE	39.0	30.0	29.5	1-1/8 S	1/2 F		25.3	20.3	9.9		46.0	460
CPDK-0300	2DF*-030E	POE	39.0	30.0	29.5	1-3/8 S	1/2 F		25.4	12.5	10.3		46.0	540
CMDL-0400	2DL*-0400	MIN	39.0	30.0	29.5	1-3/8 S	5/8 F			37.3	15.2	11.5	53.0	555
CJDL-0400	2DL*-040E	POE	39.0	30.0	29.5	1-3/8 S	5/8 F			37.3	15.2	11.5	46.0	550
CPDK-0600	2DA*-060E	POE	44.0	36.0	31.5	1-3/8 S	5/8 F			40.4	15.2	13.3	55.4	603
CPDK-0601	3DA*-060E	POE	44.0	36.0	31.5	1-3/8 S	5/8 F			42.3	19.5	15.1	55.4	630
CPDK-0750	3DB*-075E	POE	44.0	36.0	31.5	1-3/8 S	5/8 F			43.8	22.5	15.7	55.4	670
CPDK-0900	3DF*-090E	POE	39.0	66.0	36.0	1-3/8 S	7/8 S			57.2	25.7	24.4	69.4	935
CPDK-1000	3DS*-100E	POE	39.0	66.0	36.0	1-3/8 S	7/8 S			61.3	27.9	24.8	69.4	940

S - Sweat
F - Flare

Copeland Copelametic Air-Cooled Condensing Units

Control Data

- **Condensing Units for multiple applications**
- **Long term reliability**
- **System serviceability**
- **Available from your Copeland Wholesalers**

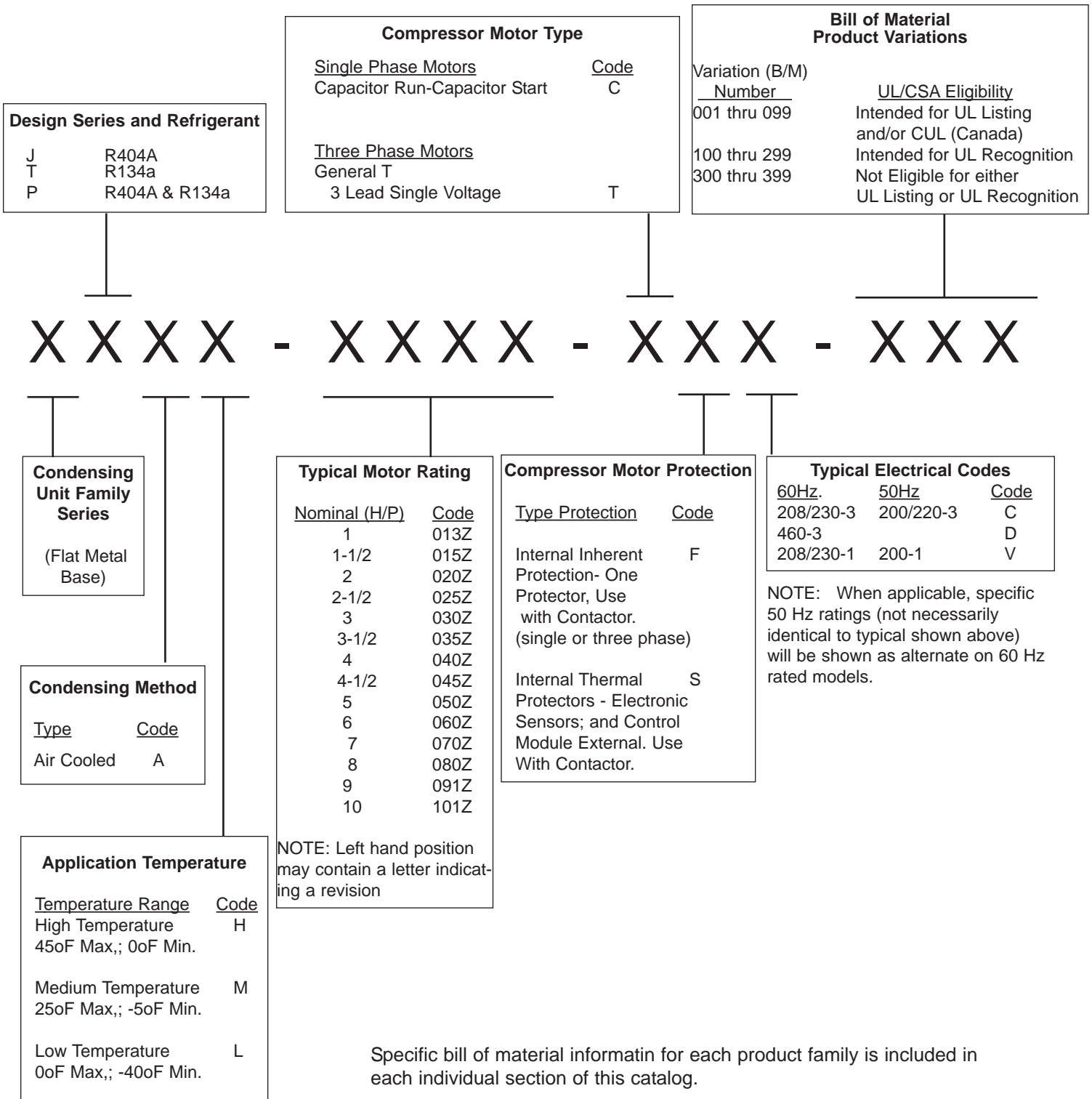
Control Data

Unit	Horsepower	Voltage	Bill of Material	Low Pressure Control	High/Low Pressure Control	Contactors	115 Volt Control Circuit Transformer
E	1/4 - 1/3	All	001	No	No	No	No
E	1/2 - 1	115-1, 208/230-1	001	Yes	No	No	No
E	1 1/2 - 2	115-1, 208/230-1	001		Yes	No	No
E	1/2 - 1	208/230-3	001		Yes	Yes	No
E	1/2 - 1	460-3	001		Yes	Yes	Yes
D	2 - 3	208/230-1	001		Yes	No	No
D	2 - 3	208/230-3	001		Yes	Yes	No
D	2 - 3	460-3	001		Yes	Yes	Yes
C	3/4 - 3	208/230-1	001		Yes	No	No
C	3/4 - 10	208/230-3	001		Yes	Yes	No
C	3 - 10	460-3, 575-3	001		Yes	Yes	Yes



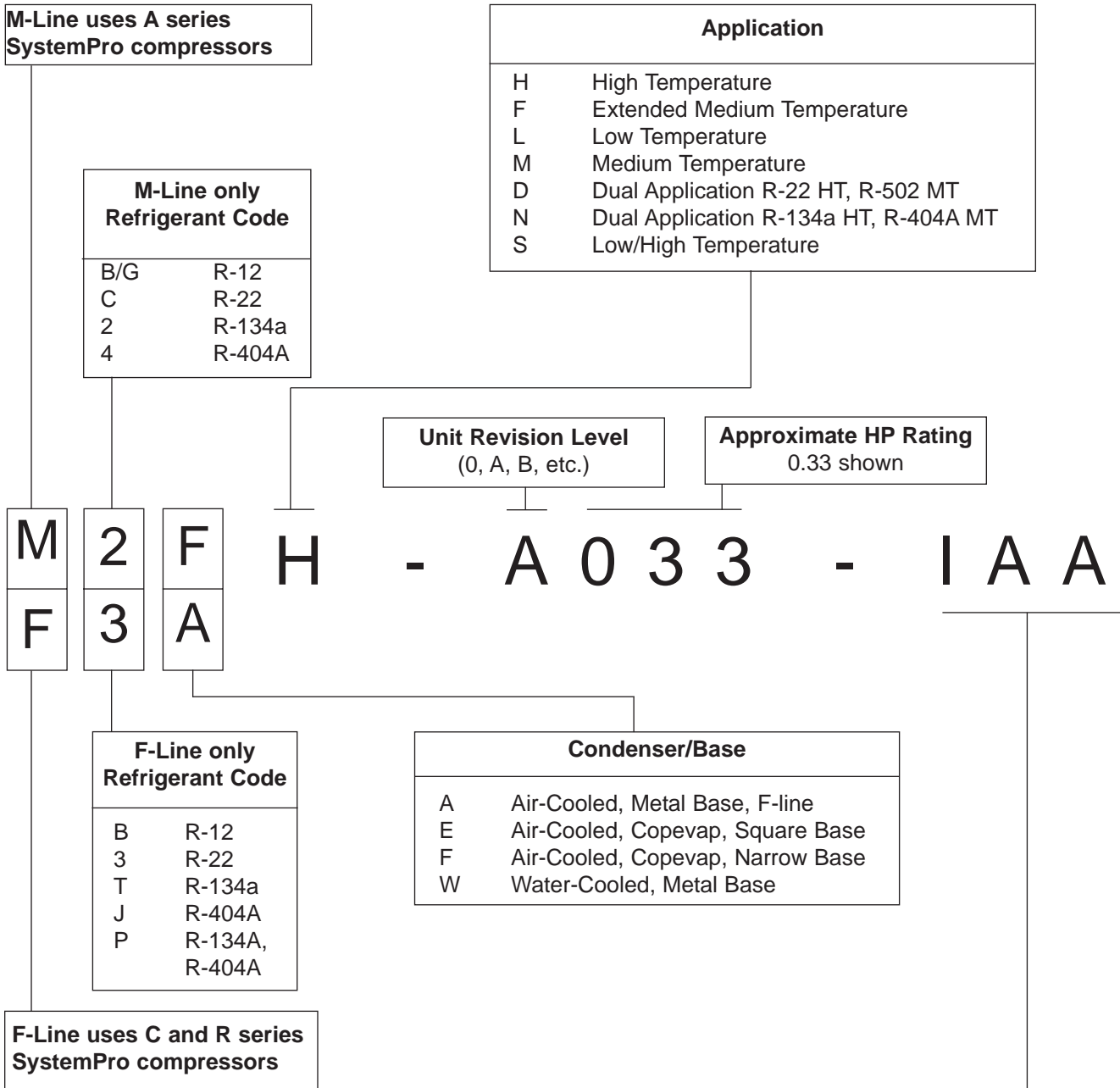
Nomenclature Information

Copeland Scroll™ Condensing Unit Model Nomenclature



Nomenclature Information

SystemPro™ Condensing Unit Nomenclature



Single Phase Voltage Code: (voltage-phase-Hertz)		
115-1-60	208/230-1-60	
CAA, CFA	CAV, CFV	Capacitor Run-Capacitor Start (High Starting Torque)
IAA	IAV	Induction Run-Capacitor Start (High Starting Torque)
SAA		Induction Run-Split Phase (Low Starting Torque)
Three Phase Voltage Code: (voltage-phase-Hertz)		
208/230-3-60	460-3-60	
TFC	TFD	

A-Series Thermal Expansion Valve



Stable and Accurate Control for Foodservice Installations

When it comes to protecting food there's no such thing as cutting corners on quality. You need solutions you can count on, especially when it comes to the refrigeration equipment that you service.

Foodservice operators depend on their refrigerators and freezers to be up and running, every hour of every day - even in the toughest foodservice environments.

We know you need to provide unsurpassed reliability that can keep food at just the right temperature, the kind of reliability that can also help lower maintenance costs. This is exactly the kind of reliability that comes with the Emerson Climate Technologies A-Series Thermal Expansion Valve.



Feature	Benefit
Hermetic construction	Eliminates leakage
Stainless steel power element	Minimizes corrosion
Fine setpoint adjustment threads	Easy to calibrate superheat
Compact design	Easy installation
Fast pull-down time	Improves food safety and quality
Full range of charges	One valve for all applications and refrigerants
Permanent 80 mesh inlet screens	Prevents contaminants from clogging valve
Internal check valve option	Eliminates the need for external check valves



Remember: Your **WHOLE** business rests on protecting your reputation.

Building a better business takes a strong reputation. And strengthening your reputation means protecting your customers' refrigeration systems from moisture and harmful contaminants. That's why Emerson Climate Technologies offers a whole package that includes:

- + The Hermetic Moisture Indicator (HMI) that begins detecting moisture at 3% relative humidity
- + The EK Filter Drier that offers the industry's best combination of moisture and acid removal, and filters contaminants as small as 20 microns
- + Solenoid valves that prevent external leakage at twice the industry standards



Copeland® + White-Rodgers® + Browning® + Flow Controls
HVACR Motors + Ventilation Products + Educational Services

EmersonClimateContractor.com/Full-Line



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EK Filter Drier

The straight facts about EK



The EK Filter Drier is a best-in-class Emerson Climate Technologies™ product. This document is designed to accurately address questions and misconceptions about EK Filter Drier performance.

1. Sporlan implies that the fiberglass pads on the EK Filter Drier are burnt during the manufacturing process and that this “condition” affects its performance.

When heated, the fiberglass pads turn amber to dark brown in color. This discoloration is due to additional curing of the phenolic resin used to bind the fiberglass filters together. The curing process does not harm or shrink the fibers, but in fact, increases their strength. In no way does it adversely affect the performance of the EK.

2. It’s a common industry misconception that all bead-style filter driers are more susceptible to desiccant breakdown than molded-core or block-style filter driers.

The EK *compacted* bead-style filter drier uses a compression spring on the inlet side that works with refrigerant flow to maintain desiccant compaction. The spring force acts in the same manner as the binding agent in molded cores. With this proven design, the attrition of desiccant is essentially reduced to zero.



The EK is the only Copeland-recommended filter drier for use with HFC refrigerants.

Source: Copeland Bulletin AT-1297-R3

3. Sporlan claims its Catch-All has “unexcelled” acid removal ability compared to the EK.

Actually, this statement is true but somewhat vague. The Catch-All desiccant blend is rich in activated alumina, which does an effective job of acid removal but also acts to strip additives from POE lubricants. The EK design has a maximum activated alumina content of 25 percent, which meets Copeland recommendations and is designed to provide best overall system protection performance. In fact, our in-house testing shows that Sporlan has recently changed their desiccant blend to more closely match the EK and Copeland’s recommendation.

4. Many contractors have been led to believe that since the EK contains more fiberglass than a molded-core type filter, it has less moisture-removal capability.

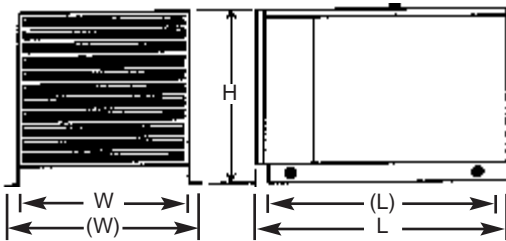
Moisture removal is based on a number of design considerations, the most important of which is the total surface area of the desiccant. Comparing the molded-core “size” or “weight” to that of the EK is meaningless. In fact, the molded-core filter drier uses a binding agent that reduces the effective surface area of the desiccant. The only true comparison is the published data per ARI Standard 710, which shows the moisture removal capacity of each product. See Table 1.



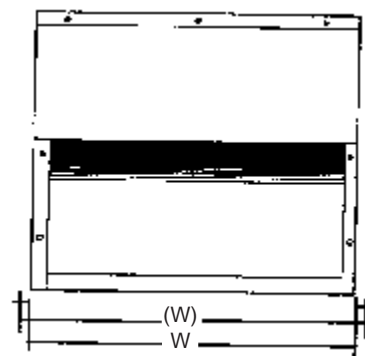
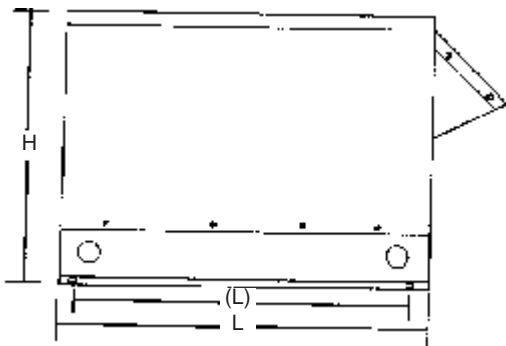
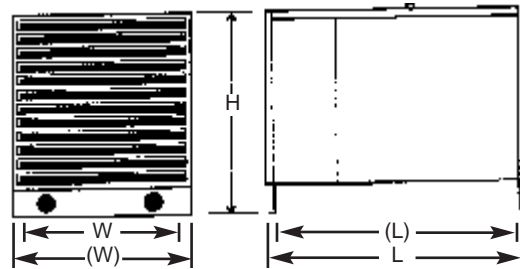
Hoods

HOOD SPECIFICATION DATA								
Copeland Part No.		External Dimensions (in.)			Internal Dimensions (in.)			
UL Listed For Outdoor Use	MFG Part No.	L	W	H	L	W	H	
	005-0882-00	CHO-10	27.0	20.0	20.0	26.0	20.0	16.0
	005-0882-01	CHO-11	29.5	37.0	27.5	28.5	37.0	22.5
	005-0882-02	CHO-12	27.0	24.5	22.0	26.0	24.5	18.0
	005-0882-03	CHO-13	35.5	24.0	25.0	34.5	24.0	21.0
	005-0882-04	CHO-15	33.5	48.5	35.5	32.5	48.5	30.5
	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
Economy Hoods								
	005-0882-09	ECON-01	26.0	20.0	20.0	26.0	20.0	16.0
	005-0882-10	ECON-02	26.0	24.5	22.0	26.0	24.5	18.0
	005-0882-11	ECON-03	28.5	37.0	26.5	28.0	37.0	22.5
	005-0882-12	ECON-04	24.5	24.0	25.0	24.5	24.0	21.0

CHO-10
CHO-12
CHO-13



CHO-11
CHO-15
CHO-16
CHO-17



Hoods

Supplemental Information - Hood Selection					
Copeland Unit Model	Dimensions (in.)			Copeland Hood	
	L	W	H	UL Listed	Economy
SystemPro™ Air-Cooled					
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
Copelametic					
E3AH-A050	19.5	14.8	12.0	005-0882-00	005-0882-09
E3AM-A075	24.0	17.9	13.6	005-0882-00	005-0882-09
E8AJ-A075	24.0	17.9	13.6	005-0882-00	005-0882-09
E8AL-A050	19.5	16.3	12.0	005-0882-00	005-0882-09
E8AL-A075	24.0	17.9	13.3	005-0882-00	005-0882-09
E8AM-A050	19.5	14.8	12.0	005-0882-00	005-0882-09
ENAG-A050	19.5	16.3	12.0	005-0882-00	005-0882-09
ENAG-A075	24.0	17.9	12.0	005-0882-00	005-0882-09
CBAM-0103	33.5	20.0	19.0	005-0882-03	005-0882-12
C3AM-0101	33.5	20.0	19.0	005-0882-03	005-0882-12
C8AJ-0100	33.5	20.0	19.0	005-0882-03	005-0882-12
C8AJ-0200	33.5	20.0	19.0	005-0882-03	005-0882-12
ENAG-A100	24.0	17.9	13.3	005-0882-00	005-0882-09
E3AM-A101	26.2	18.3	16.0	005-0882-01	005-0882-11
CPAK-0150	33.5	20.0	19.0	005-0882-03	005-0882-12
C3AH-0150	33.5	20.0	19.0	005-0882-03	005-0882-12

Hoods

Supplemental Information - Hood Selection					
Copeland Unit Model	Dimensions (in.)			Copeland Hood	
	L	W	H	UL Listed	Economy
Copelametic (cont.)					
C3AM-0303	39.0	30.0	29.5	005-0882-05	N/A
C7AB-0150	33.0	20.0	19.0	005-0882-03	005-0882-12
C7AB-0200	33.5	20.0	19.0	005-0882-03	005-0882-12
C7AB-0300	39.0	30.0	29.5	005-0882-05	N/A
C8AL-0151	33.5	20.0	19.0	005-0882-03	005-0882-12
C8AL-0200	33.5	20.0	19.0	005-0882-03	005-0882-12
CNAG-0200	33.5	20.0	19.0	005-0882-03	005-0882-12
C8AJ-0300	39.0	30.0	29.5	005-0882-05	N/A
C8AM-0202	33.5	20.0	19.0	005-0882-03	005-0882-12
CJAL-0300	39.0	30.0	29.5	005-0882-05	N/A
CLAL-0300	39.0	30.0	29.5	005-0882-05	N/A
CPDK-0300	39.0	30.0	29.5	005-0882-05	N/A
CPDK-0600	44.0	36.0	31.5	005-0882-05	N/A
CPDK-0750	44.0	36.0	31.5	005-0882-05	N/A
CJDL-0400	39.0	30.0	29.5	005-0882-05	N/A
CMDL-0400	39.0	30.0	29.5	005-0882-05	N/A
C8DJ-0500	39.0	30.0	29.5	005-0882-05	N/A
C8DJ-0501	39.0	30.0	29.5	005-0882-05	N/A
C8DJ-0750	44.0	36.0	31.5	005-0882-05	N/A
C8DJ-1000	39.0	66.0	36.0	005-0882-06	N/A
Scroll					
FTAH-A13Z	24.0	18.3	16.3	005-0882-01	005-0882-10
FJAM-A15Z	24.0	18.3	16.3	005-0882-01	005-0882-10
FTAH-A15Z	24.0	18.3	16.3	005-0882-01	005-0882-10
FJAM-A20Z	25.2	34.0	19.0	005-0882-01	005-0882-11
FJAM-A25Z	25.2	34.0	19.0	005-0882-01	005-0882-11
FJAM-A30Z	25.2	34.0	19.0	005-0882-01	005-0882-11
FJAM-A35Z	25.2	34.0	19.0	005-0882-01	005-0882-11
FJAM-A40Z	28.2	44.1	26.8	005-0882-04	N/A
FJAM-A50Z	28.2	44.1	26.8	005-0882-04	N/A
FJAM-A60Z	28.2	44.1	26.8	005-0882-04	N/A
FTAH-A20Z	25.2	34.0	19.0	005-0882-01	005-0882-11
FTAH-A25Z	25.2	34.0	19.0	005-0882-01	005-0882-11
FTAH-A30Z	25.2	34.0	19.0	005-0882-01	005-0882-11
FTAH-A35Z	25.2	34.0	19.0	005-0882-01	005-0882-11
FTAH-A40Z	28.2	44.1	26.8	005-0882-04	N/A
FTAH-A50Z	28.2	44.1	26.8	005-0882-04	N/A
FPAN-070Z	28.5	44.0	36.8	005-0882-04	N/A
FPAN-080Z	28.5	44.0	36.8	005-0882-04	N/A
FPAN-091Z	28.5	44.0	36.8	005-0882-04	N/A
FPAN-101Z	28.5	44.0	36.8	005-0882-04	N/A
DJAL-015Z	25.2	34.3	19.0	005-0882-01	005-0882-11
DJAL-020Z	25.2	34.3	19.0	005-0882-01	005-0882-11
DJAL-022Z	25.2	34.3	19.0	005-0882-01	005-0882-11
DJAL-026Z	25.2	34.3	19.0	005-0882-01	005-0882-11
DJAL-030Z	25.2	34.3	19.0	005-0882-01	005-0882-11
DJAL-041Z	28.2	44.1	26.8	005-0882-04	N/A
DJAL-051Z	28.2	44.1	26.8	005-0882-04	N/A
DJAL-060Z	28.2	44.1	26.8	005-0882-04	N/A

Hoods

Supplemental Information - Hood Selection					
Copeland Unit Model	Dimensions (in.)			Copeland Hood	
	L	W	H	UL Listed	Economy
Water-Cooled					
M2WH-C026	17.9	13.0	8.7	005-0882-00	005-0882-09
M2WL-C025	24.0	16.4	9.5	005-0882-00	005-0882-09
M2WL-C033	24.0	16.4	9.5	005-0882-00	005-0882-09
M4WH-C036	17.9	12.8	9.0	005-0882-00	005-0882-09
M4WH-C050	17.9	12.8	9.3	005-0882-00	005-0882-09
M4WL-C051	24.0	16.4	9.9	005-0882-00	005-0882-09
MCWH-C036	17.9	12.8	8.8	005-0882-00	005-0882-09
MCWH-C056	17.9	13.3	9.8	005-0882-00	005-0882-09
FJWM-C056	17.9	13.2	11.2	005-0882-00	005-0882-09
F3WH-C078	24.0	17.1	12.1	005-0882-00	005-0882-09
F3WM-C105	24.0	17.3	12.8	005-0882-00	005-0882-09
FJWL-C103	24.0	16.1	11.6	005-0882-00	005-0882-09
FJWL-C301	24.0	21.0	21.1	005-0882-01	005-0882-11
FJWL-C390	25.0	21.0	21.1	005-0882-01	005-0882-11
FJWM-C400	26.2	21.0	21.0	005-0882-01	005-0882-11
FPWN-C150	24.0	16.2	17.0	005-0882-02	005-0882-10
FPWN-C225	24.0	16.8	15.0	005-0882-02	005-0882-10
FPWN-C300	24.0	16.9	15.0	005-0882-02	005-0882-10
FPWN-C325	26.2	21.0	15.5	005-0882-01	005-0882-11
FTWM-C075	24.0	16.1	11.8	005-0882-00	005-0882-09
F3WD-C201	24.0	16.1	15.0	005-0882-02	005-0882-10
F3WD-C301	26.2	21.0	15.4	005-0882-02	005-0882-10
F3WD-C401	26.8	21.0	21.1	005-0882-01	005-0882-11
F3WD-C501	25.8	21.8	21.1	005-0882-01	005-0882-11

NOTE: For any models not listed select the proper hood based on the unit dimensions from the summary sheet.

TXV Superheat Adjustment						
Valve	"Total Turns"	Degrees Per Turn				
		"R22+20"	"R22-20"	"R134A+20"	"R404/507+20"	"R404/507-20"
TCLE	32	0.8	1.5	1.0	0.5	1.0
HF	10	2.2	4.2	3.8	1.8	3.2
A	8	3.0	5.0	4.5	2.0	4.0
TRAE	10	2.2	4.2	3.8	1.8	3.2

Note: To revert to approximate original factory setting, turn adjustment counterclockwise until the spring is completely unloaded. Then, turn the adjustment nut back in 1/2 the "Total Turns" shown on the chart.

EK Filter Driers

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
- Copeland approved for POE Oils

Specifications

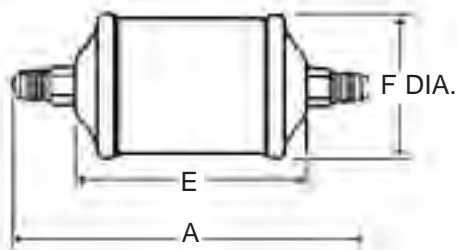
- Desiccant blend - 75% molecular sieve and 25% activated alumina
- Filtration: 20 microns
- Maximum working pressure: 680 psig
- UL/CUL file number: SA 3124

Ordering Information for EK

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)



PCN	Model Number	Dimensions					Shipping Wt. (lbs)
		A	B	D	E	F	
060009	EK 032	4 3/8	-	-	-	-	1/2
060012	EK 032S	3 7/8	3 1/8	3/8	-	-	
063208	EK 032SV CAP	-	-	-	-	-	
060011	EK 032FM	3 1/2	-	-	2 9/16	1 5/8	
060010	EK 032MF	3 1/2	-	-	-	-	
060013	EK 033	4 11/16	-	-	-	-	
060014	EK 033S	4 1/6	3 3/16	7/16	-	-	
047601	EK 052	4 13/16	-	-	-	-	7/8
057013	EK 052MF	4 1/2	-	-	-	-	
047602	EK 052S	4 7/16	3 11/16	3/8	3	-	
065846	EK 052 SV CAP	-	-	-	-	-	
047603	EK 053	5 1/8	-	-	-	-	
047604	EK 053S	4 1/2	3 5/8	7/16	-	-	
047605	EK 082	5 5/8	-	-	-	-	
047606	EK 082S	5 1/4	4 1/2	3/8	-	-	1 1/4
049551	EK 0825S	5 3/8	4 3/8	1/2	-	-	
056906	EK 083MF	5 15/16	-	-	3 13/16	-	
047607	EK 083	5 15/16	-	-	-	-	
047608	EK 083S	5 5/16	4 7/16	7/16	-	-	
047609	EK 084	6 3/16	-	-	-	-	
047610	EK 084S	5 3/8	4 3/8	1/2	-	-	
047611	EK 162	6 9/16	-	-	-	-	1 1/2
047612	EK 162S	6 3/16	5 7/16	3/8	-	-	
056045	EK 1625S	5 15/16	5 5/16	5/16	-	-	
047613	EK 163	6 7/8	-	-	-	-	
047614	EK 163S	6 1/4	5 7/16	7/16	4 3/4	-	
047615	EK 164	7 1/16	-	-	-	-	
047616	EK 164S	6 5/16	5 5/16	1/2	-	-	
047617	EK 165	7 1/2	-	-	-	-	
047618	EK 165S	6 9/16	5 5/16	5/8	-	-	
047619	EK 167S	7 1/2	5 5/8	3/4	-	-	
048210	EK 303	9 5/8	-	-	-	-	3 3/4
048211	EK 303S	9	8 1/8	7/16	-	-	
048212	EK 304	9 7/8	-	-	-	-	
048213	EK 304S	9 1/8	8 1/8	1/2	7 1/2	3 1/16	
048214	EK 305	10 5/16	-	-	-	-	
048215	EK 305S	9 5/16	8 1/16	5/8	-	-	
048216	EK 306S	9 11/16	8 7/16	5/8	-	-	
048217	EK 307S	9 7/8	8 3/8	3/4	-	-	
048218	EK 309S	10 1/4	8 7/16	15/16	-	-	
048219	EK 413	9 3/4	-	-	-	-	
048220	EK 414	10	-	-	-	-	4 3/4
048221	EK 414S	9 1/4	8 1/4	1/2	7 5/8	-	
048222	EK 415	10 7/16	-	-	-	-	
048223	EK 415S	9 7/16	8 3/16	5/8	-	-	
048224	EK 417S	10	8 1/2	3/4	-	-	
048225	EK 419S	10 5/16	8 1/2	3/4	-	-	
048228	EK 757S	15 7/16	13 15/16	3/4	13 1/16	-	
048229	EK 759S	15 3/4	13 7/8	15/16	-	-	

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 R410A

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



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

Specifications

- 3% relative humidity sensitivity
- Maximum Working Pressure: 680 psig
- UL File Number: SA 4876
- CSA File Number: LR32462

Nomenclature

Example: HMI 1TT4

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

Ordering Information for HMI

PCN	Catalog #	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"
065399	HMI-1MU2	Male Flare x Female Flare Swivel Nut	1/4"	
065400	HMI-1MU3		3/8"	
065401	HMI-1MU4		1/2"	
065402	HMI-1MU5		5/8"	
065403	HMI-1FU3		Female Flare x Female Flare Swivel Nut	3/8"
065404	HMI-1FU4	1/2"		
065412	HMI-1UU3	Swivel Nut x Swivel Nut	3/8"	
065413	HMI-1UU4		1/2"	
065414	HMI-1UU5		5/8"	

Note: If the HMI indicator is not dark blue after 12 hours of running time, the filter drier should be changed.

MOISTURE SENSITIVITY (PPM)									
Indication	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
R22	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
R-502	2.6	5	8	10	18	30	50	90	150



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