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R-Series Next-Gen MiniCon

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



1/2 TO 6 HP

The Next Generation of MiniCons are Here!

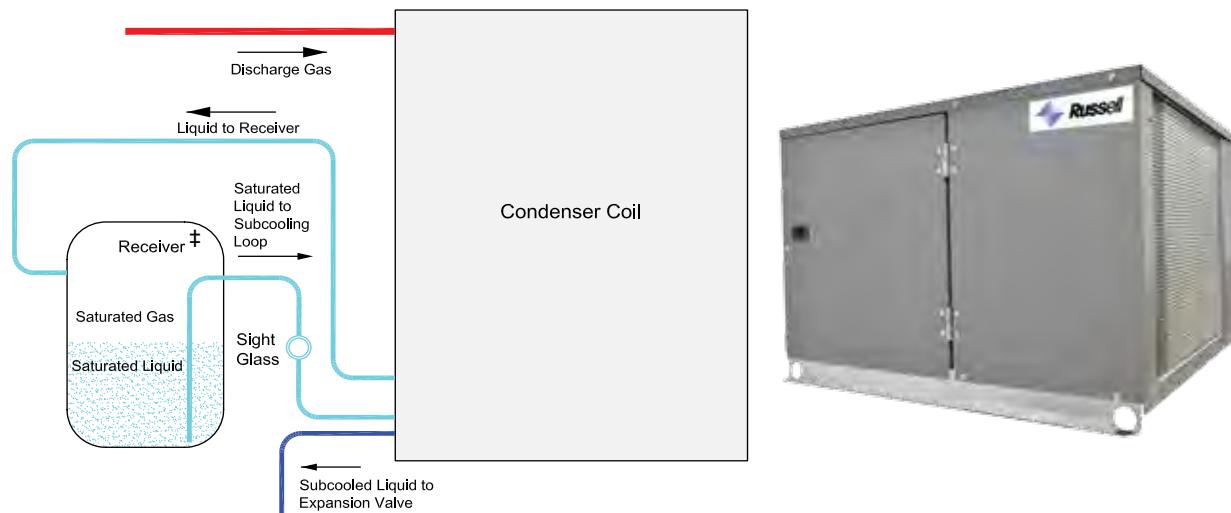
Russell's Next-Gen MiniCon R-Series 1/2 through 6 HP condensing units are engineered with an exciting new design that provides increased efficiency, more standard features, easier serviceability, and more catalogued options.

Next-Gen MiniCons are ideally suited for use in a variety of commercial applications such as cafeterias, convenience stores, restaurants and fast food outlets while providing the versatility to excel in a full array of other applications. These new R-Series units provide a winning combination of high quality, increased flexibility and greatly improved efficiency for even lower long-term operating costs.

The small profile product line is designed to utilize R404A or other low GWP refrigerants R407A, R407C and R448/R449A. Units are available with low-cost hermetic or efficient and quiet scroll compressors. The standard Next-Gen R-Series is rated for operation in ambient air temperatures up to 110°F.

Integral Subcooling Circuit

All Next-Gen MiniCon units feature an integral subcooling circuit that allows saturated liquid to flow from the receiver to the condenser where the refrigerant is subcooled by ambient air. This provides an average of 3 to 5°F of subcooling for higher efficiency while assuring optimal expansion device operation.



‡ Sierra models include a receiver section within the condenser and do not have a separate receiver tank.

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NEXT-GEN MINICON CONDENSING UNITS

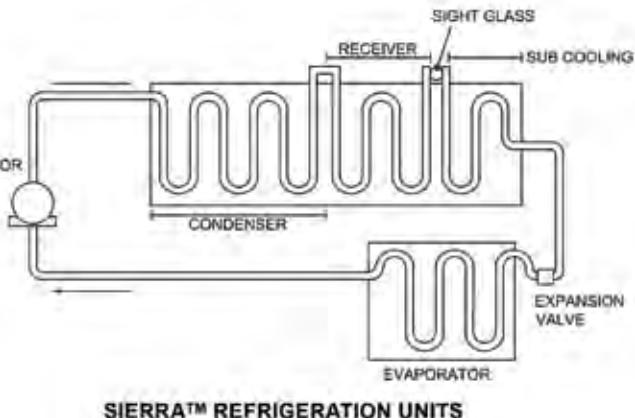
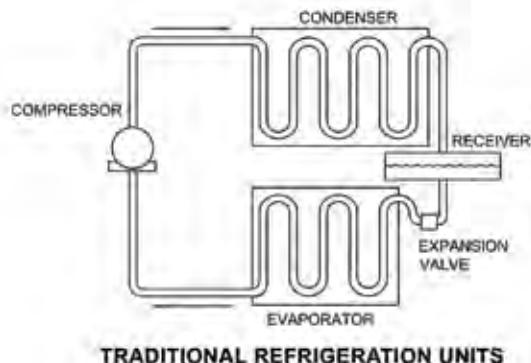
Standard Features

- Low-cost Hermetic or quiet and efficient Scroll compressor
- All-weather - Galvanized steel painted housing
- Generously sized high efficiency condenser, enhanced copper tubes/aluminum fins
- Integral Liquid Subcooling Circuit provides subcooled liquid to the expansion device
- Base mounted shut-off valves placed external to cabinet for easy access
- Liquid line kit with filter/drier and sight glass with moisture indicator
- Suction line piping
- Larger electrical panel with hinged/removable door
- Color coded point-to-point wiring
- Crankcase heater

- Refrigerant receiver with isolation valve and pressure relief plug (not Sierra)
 - PSC condenser fan motor(s) with EC motor option
 - Encapsulated high pressure (auto reset) and low pressure (auto reset) controls (adjustable low pressure control is standard on low temperature models)
 - Electronic defrost timer with defrost contactor/relay on low temperature models (2 evaps. maximum)
 - Electronic air defrost timer (Medium temperature models only)
 - UL and cUL listed for indoor or outdoor use
- RFH/RFO** models include flooded head pressure control as a standard feature.
- RVH/RVO** models feature the **Sierra™** refrigeration system and no refrigerant receiver .

Sierra™ Refrigeration Condensing Units

The unique design provides built-in refrigerant storage capacity in the condenser section of the condensing unit. They require up to 20% less refrigerant to operate while maintaining continuous peak performance.



Options*

- Suction accumulator
- Oil separator (may not be available with mounted accumulator)
- Thru-the-door fused disconnect for cabinet sizes FM2 through FM4
- External fused or non-fused disconnect - loose or mounted
- Heated and insulated receiver
- Oversized receiver
- Adjustable high/low pressure control
- Hose option for adjustable pressure control

- EC condenser motor
- Pump down toggle switch
- Liquid line solenoid (loose or mounted)
- Phase loss monitor
- Hail / Snow Guard - loose or mounted
- Paragon mechanical timer in lieu of electronic timer
- Timer shipped loose in enclosure
- CPC timer
- 316 Stainless steel housing
- 50 Hz timer and/or defrost kit

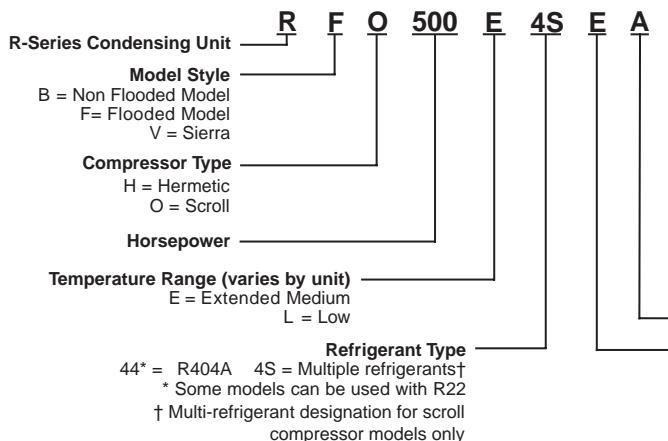
* Not all options are available for Sierra models. See page 4 for details.

1/2 TO 6 HP

Features and Options

	DESCRIPTION	FLOODED MODELS		NON-FLOODED MODELS		SIERRA MODELS	
		RFH	RFO	RBH	RBO	RVH	RVO
CABINET	All weather housing - Pre-painted grey	STANDARD		STANDARD		STANDARD	
	316 Stainless Steel	OPTIONAL		OPTIONAL		OPTIONAL	
	Hail / Snow Guards - Loose or Mounted	OPTIONAL		OPTIONAL		OPTIONAL	
	Large Control panel for power and control circuits	STANDARD		STANDARD		STANDARD	
COMPRESSOR	Hinged / removable control panel door	STANDARD		STANDARD		STANDARD	
	Hermetic	STD	N/A	STD	N/A	STD	N/A
ELECTRICAL	Scroll	N/A	STD	N/A	STD	N/A	STD
	Crankcase heater	STANDARD		STANDARD		STANDARD	
	Compressor contactor (1Ø or 3Ø), start kit (1Ø)	STANDARD		STANDARD		STANDARD	
	Control transformer (460V to 230V) as required	STANDARD		STANDARD		STANDARD	
HIGH EFFICIENCY CONDENSER	**Encapsulated high and low pressure controls	STANDARD		STANDARD		STANDARD	
	Color coded wiring for maximum serviceability	STANDARD		STANDARD		STANDARD	
	Enhanced Copper tubes, Aluminum fins	STANDARD		STANDARD		STANDARD	
	High ambient coil	STANDARD		STANDARD		STANDARD	
	Integral Subcooling Circuit	STANDARD		STANDARD		STANDARD	
	PSC Fan motor(s) - overload protection	STANDARD		STANDARD		STANDARD	
PIPING COMPONENTS	EC Fan motor(s) - overload protection	OPTIONAL		OPTIONAL		OPTIONAL	
	Copper, polyester coated fins or Electro Fin® coated coil	OPTIONAL		OPTIONAL		OPTIONAL	
	Integral receiver section	N/A		N/A		STANDARD	
	Base mounted liquid and suction shut-off valves	STANDARD		STANDARD		STANDARD	
RECEIVER+	Suction line (piping only)	STANDARD		STANDARD		STANDARD	
	Suction kit (piping and suction filter)	OPTIONAL		OPTIONAL		STANDARD	
	Suction line accumulator	OPTIONAL		OPTIONAL		STANDARD	
LOW AMBIENT CONTROLS	*Liquid line kit	STANDARD		STANDARD		STANDARD	
	Receiver Isolation valve	STANDARD		STANDARD		STANDARD	
	Pressure relief plug	STANDARD		STANDARD		N/A	
DEFROST PROVISIONS	Oversized receiver	OPTIONAL		OPTIONAL		N/A	
	Flooded head pressure control	STANDARD		N/A		N/A	
	Fan cycle control (2 Fan models only)	N/A		STANDARD		STANDARD	
TESTING	^Electronic Air defrost time clock for medium temps.	STANDARD		STANDARD		STANDARD	
	Mechanical defrost timer	OPTIONAL		OPTIONAL		OPTIONAL	
	50 Hz defrost timers with or without contactors	OPTIONAL		OPTIONAL		OPTIONAL	
	Surveillant family of electronic system controllers	OPTIONAL		OPTIONAL		OPTIONAL	
TESTING	Electric defrost	(1)	(1)	(1)	(1)	(1)	(1)
	UL and cUL listed	STANDARD		STANDARD		STANDARD	
	Hydrogen leak and dielectric tested before shipping	STANDARD		STANDARD		STANDARD	
TESTING	Dry Nitrogen shipping charge (25 to 35 PSI)	STANDARD		STANDARD		STANDARD	

MODEL NUMBER NOMENCLATURE



Pre-assembly Code
(Extended Range Models)

Blank = Standard Configuration

T = Includes mechanical air defrost timer in lieu of electronic air defrost timer

L = Includes ED-kit with electronic timer in lieu of air defrost timer

LT = Includes ED-kit with mechanical timer in lieu of air defrost timer

See features page for configuration descriptions

Vintage

Voltage code

D = 208-230/1/60 M = 200-220/1/50

E = 208-230/3/60 N = 200-220/3/50

G = 460/3/60 Q = 380/3/50

STD = Standard Feature

N/A = Not Available

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

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

+ Sierra units do not include a receiver tank.

^ Standard on extended medium temp. models only.

(1) Electric defrost kit is included on low temp. models and optional for medium temp. models - see pages 17-19.

(2) Sierra models are critical charge units - see pages 3 and 20.

See specification pages 20-21 for compressor horsepower.

NEXT-GEN MINICON CONDENSING UNITS

Capacity Data (BTUH) - Extended Medium Temperature R404A Hermetic - 60 Hz[‡]

SUCTION TEMPERATURE

MODEL	COMP. MODEL	30°F	25°F	20°F	10°F	0°F	-10°F	-20°F	-25°F
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90°F Ambient

R*H055E44**	RST45C1E	6,660	6,020	5,420	4,350	3,390	2,520	1,700	1,310
R*H080E44**	RST55C1E	8,270	7,410	6,610	5,180	3,960	2,930	2,070	1,690
R*H090E44**	RST64C1E	9,930	9,080	8,260	6,690	5,250	3,980	2,870	2,370
R*H100E44**	RST70C1E	10,590	9,570	8,610	6,820	5,250	3,920	2,830	2,360
R*H125E44**	RST97C1E	14,260	13,080	11,910	9,690	7,640	5,820	4,300	3,680
R*H150E44**	CS10K6E	16,270	14,720	13,190	10,260	7,530	5,110	3,130	2,340
R*H200E44**	CS12K6E	18,960	16,960	15,070	11,650	8,640	5,970	3,580	2,470
R*H250E44**	CS14K6E	22,170	20,230	18,300	14,510	10,980	7,840	5,230	4,150
R*H300E44**	CS18K6E	27,060	24,730	22,400	17,760	13,300	9,330	6,120	4,890
R*H325E44**	CS20K6E	35,720	31,530	27,770	21,320	16,050	11,600	7,610	5,670

95°F Ambient

R*H055E44**	RST45C1E	6,350	5,740	5,170	4,130	3,210	2,370	1,580	1,200
R*H080E44**	RST55C1E	7,860	7,040	6,270	4,890	3,720	2,730	1,900	1,540
R*H090E44**	RST64C1E	9,470	8,650	7,860	6,360	4,970	3,740	2,670	2,200
R*H100E44**	RST70C1E	10,090	9,110	8,190	6,480	4,970	3,690	2,640	2,190
R*H125E44**	RST97C1E	13,620	12,470	11,350	9,200	7,230	5,470	4,020	3,420
R*H150E44**	CS10K6E	15,280	13,810	12,340	9,530	6,920	4,610	2,740	1,990
R*H200E44**	CS12K6E	17,870	15,950	14,140	10,850	7,970	5,410	3,130	2,070
R*H250E44**	CS14K6E	20,940	19,070	17,230	13,620	10,240	7,250	4,760	3,740
R*H300E44**	CS18K6E	25,490	23,260	21,020	16,560	12,310	8,530	5,520	4,370
R*H325E44**	CS20K6E	33,580	29,590	25,970	19,800	14,770	10,530	6,720	4,870

100°F Ambient

R*H055E44**	RST45C1E	6,030	5,450	4,900	3,910	3,030	2,220	1,460	1,090
R*H080E44**	RST55C1E	7,460	6,670	5,930	4,610	3,490	2,540	1,740	1,400
R*H090E44**	RST64C1E	9,010	8,220	7,460	6,020	4,700	3,510	2,480	2,030
R*H100E44**	RST70C1E	9,580	8,650	7,770	6,130	4,690	3,460	2,450	2,020
R*H125E44**	RST97C1E	12,960	11,860	10,780	8,710	6,810	5,120	3,730	3,150
R*H150E44**	CS10K6E	14,320	12,910	11,490	8,810	6,320	4,120	2,350	1,640
R*H200E44**	CS12K6E	16,800	14,950	13,210	10,050	7,300	4,860	2,700	1,690
R*H250E44**	CS14K6E	19,700	17,920	16,160	12,730	9,510	6,670	4,300	3,320
R*H300E44**	CS18K6E	24,000	21,820	19,650	15,390	11,330	7,760	4,940	3,890
R*H325E44**	CS20K6E	31,510	27,670	24,210	18,310	13,510	9,460	5,840	4,080

110°F Ambient

R*H055E44**	RST45C1E	5,380	4,860	4,360	3,460	2,660	1,920	1,220	880
R*H080E44**	RST55C1E	6,660	5,950	5,270	4,070	3,040	2,180	1,470	1,150
R*H090E44**	RST64C1E	8,060	7,350	6,660	5,360	4,150	3,070	2,130	1,710
R*H100E44**	RST70C1E	8,550	7,700	6,900	5,420	4,100	2,980	2,060	1,660
R*H125E44**	RST97C1E	11,630	10,610	9,610	7,710	5,960	4,420	3,140	2,620
R*H150E44**	CS10K6E	12,380	11,090	9,820	7,380	5,120	3,140	1,570	940
R*H200E44**	CS12K6E	14,610	12,940	11,360	8,490	6,000	3,810	1,900	1,030
R*H250E44**	CS14K6E	17,200	15,600	14,030	10,940	8,050	5,500	3,390	2,520
R*H300E44**	CS18K6E	20,890	18,940	16,990	13,110	9,460	6,290	3,870	3,000
R*H325E44**	CS20K6E	27,470	23,920	20,780	15,410	11,050	7,380	4,110	2,510

* Each asterisk represents a variable character based upon model, voltage, and vintage ordered. See page 4 for nomenclature.

† Multiply capacity by .83 when used with 50 Hz power.

1/2 TO 6 HP

Capacity Data (BTUH) - Extended Medium Temperature R407C Hermetic - 60 Hz[‡]

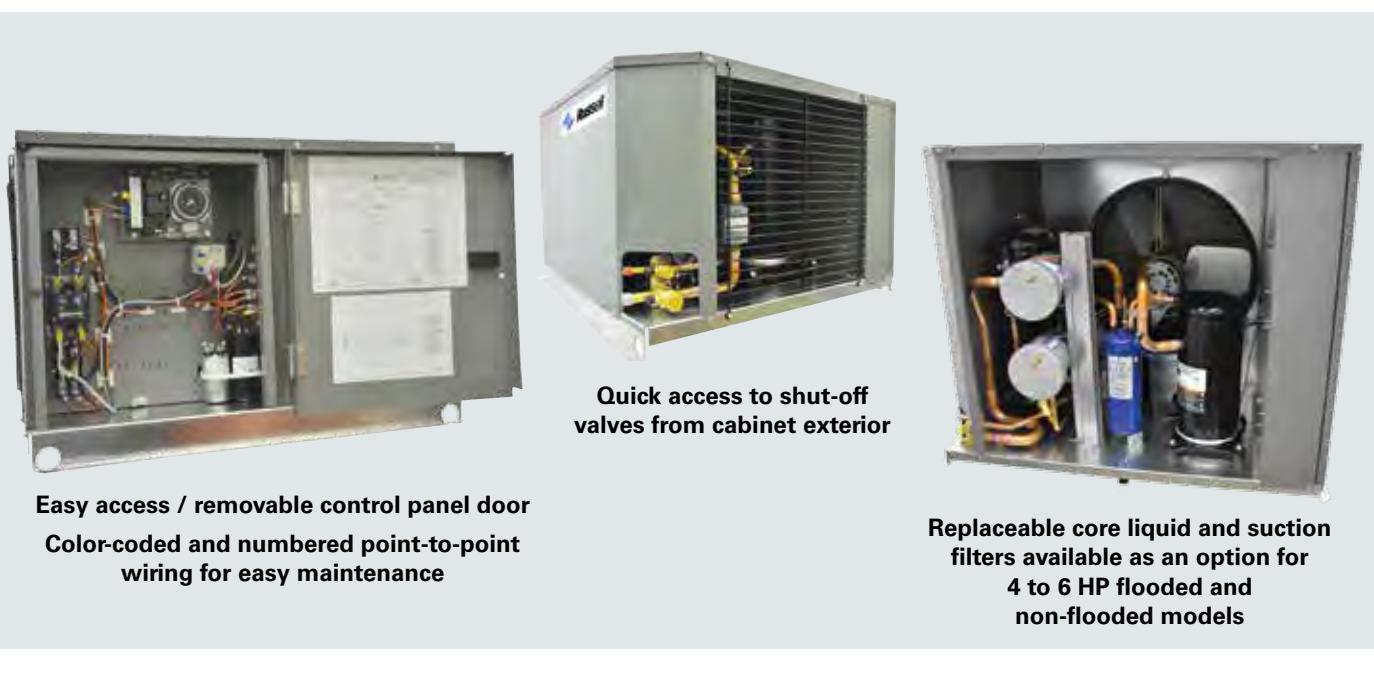
SUCTION TEMPERATURE

MODEL	COMP. MODEL	30°F	25°F	20°F	10°F	15°F	5°F	0°F
90°F Ambient								
R*H055E4S**	RST45C1E	6,650	5,870	5,150	4,500	3,920	3,390	2,950
R*H080E4S**	RST55C1E	7,820	6,850	5,980	5,210	4,500	3,870	3,290
R*H090E4S**	RST64C1E	9,930	8,830	7,810	6,870	6,000	5,200	4,470
R*H100E4S**	RST70C1E	10,150	8,990	7,950	6,980	6,090	5,280	4,520
R*H125E4S**	RST97C1E	13,850	12,350	10,970	9,710	8,550	7,470	6,450
95°F Ambient								
R*H055E4S**	RST45C1E	6,400	5,650	4,950	4,320	3,750	3,250	-
R*H080E4S**	RST55C1E	7,550	6,620	5,780	5,020	4,340	3,720	-
R*H090E4S**	RST64C1E	9,540	8,470	7,490	6,590	5,760	4,990	-
R*H100E4S**	RST70C1E	9,780	8,660	7,650	6,710	5,860	5,070	-
R*H125E4S**	RST97C1E	13,350	11,890	10,560	9,340	8,210	7,160	-
100°F Ambient								
R*H055E4S**	RST45C1E	6,150	5,430	4,750	4,140	3,590	-	-
R*H080E4S**	RST55C1E	7,290	6,390	5,570	4,840	4,180	-	-
R*H090E4S**	RST64C1E	9,170	8,130	7,190	6,330	5,510	-	-
R*H100E4S**	RST70C1E	9,410	8,330	7,360	6,460	5,620	-	-
R*H125E4S**	RST97C1E	12,860	11,460	10,170	8,990	7,890	-	-
110°F Ambient								
R*H055E4S**	RST45C1E	5,690	5,010	4,370	3,800	3,270	-	-
R*H080E4S**	RST55C1E	6,770	5,940	5,180	4,490	3,870	-	-
R*H090E4S**	RST64C1E	8,420	7,470	6,600	5,790	5,050	-	-
R*H100E4S**	RST70C1E	8,690	7,680	6,770	5,930	5,160	-	-
R*H125E4S**	RST97C1E	11,300	10,420	9,410	8,290	7,260	-	-

* Each asterisk represents a variable character based upon model, voltage, and vintage ordered. See page 4 for nomenclature.

† Multiply capacity by .83 when used with 50 Hz power.

Hermetic compressors are not available for use with R407A.



NEXT-GEN MINICON CONDENSING UNITS

Capacity Data (BTUH) - Extended Medium Temperature R448A/449A Hermetic - 60 Hz[‡]

SUCTION TEMPERATURE

MODEL	COMP. MODEL	30°F	25°F	20°F	10°F	15°F	5°F	0°F
90°F Ambient								
R*H055E4S**	RST45C1E	6,890	6,060	5,310	4,640	4,030	3,480	3,000
R*H080E4S**	RST55C1E	8,550	7,460	6,480	5,590	4,800	4,100	3,490
R*H090E4S**	RST64C1E	9,300	8,260	7,320	6,470	5,690	4,990	4,370
R*H100E4S**	RST70C1E	9,970	8,940	7,990	7,080	6,240	5,450	4,720
R*H125E4S**	RST97C1E	13,460	12,240	11,060	9,930	8,860	7,840	6,870
95°F Ambient								
R*H055E4S**	RST45C1E	6,600	5,800	5,080	4,420	3,840	3,320	2,850
R*H080E4S**	RST55C1E	8,160	7,120	6,160	5,300	4,540	3,870	3,290
R*H090E4S**	RST64C1E	8,930	7,920	7,020	6,200	5,460	4,790	4,180
R*H100E4S**	RST70C1E	9,600	8,600	7,680	6,810	5,990	5,230	4,520
R*H125E4S**	RST97C1E	12,990	11,790	10,650	9,550	8,500	7,510	6,570
100°F Ambient								
R*H055E4S**	RST45C1E	6,300	5,540	4,840	4,220	3,650	3,150	2,700
R*H080E4S**	RST55C1E	7,800	6,780	5,860	5,030	4,300	3,650	3,100
R*H090E4S**	RST64C1E	8,570	7,600	6,730	5,950	5,230	4,580	4,010
R*H100E4S**	RST70C1E	9,230	8,280	7,380	6,540	5,740	5,000	4,310
R*H125E4S**	RST97C1E	12,520	11,360	10,250	9,180	8,150	7,180	6,260
110°F Ambient								
R*H055E4S**	RST45C1E	5,740	5,040	4,390	3,810	3,290	--	--
R*H080E4S**	RST55C1E	7,100	6,170	5,310	4,550	3,860	--	--
R*H090E4S**	RST64C1E	7,880	6,980	6,170	5,450	4,790	--	--
R*H100E4S**	RST70C1E	8,520	7,620	6,790	5,990	5,250	--	--
R*H125E4S**	RST97C1E	11,620	10,510	9,450	8,430	7,460	--	--

* Each asterisk represents a variable character based upon model, voltage, and vintage ordered. See page 4 for nomenclature.

† Multiply capacity by .83 when used with 50 Hz power.

Next-Gen MiniCon Condensing Units provide a complete refrigeration solution for small to medium walk-ins when combined with Russell's low profile unit coolers.

1/2 TO 6 HP

Capacity Data (BTUH) - Extended Medium Temperature R404A Scroll - 60 Hz[‡]

SUCTION TEMPERATURE

MODEL	COMP. MODEL	45°F	35°F	25°F	20°F	0°F	-10°F	-20°F	-25°F
90°F Ambient									
R*O130E4S**	ZS09KAE	15,160	13,430	11,130	10,110	6,690	5,330	4,210	3,720
R*O150E4S**	ZS11KAE	20,650	17,210	14,270	12,910	8,410	6,670	5,230	4,620
R*O180E4S**	ZS13KAE	22,860	19,050	15,990	14,490	9,500	7,560	5,950	5,250
R*O200E4S**	ZS15KAE	29,910	24,810	20,050	18,100	11,660	9,230	7,240	6,380
R*O250E4S**	ZS19KAE	33,590	27,960	21,960	19,880	12,930	10,250	8,050	7,100
R*O300E4S**	ZS21KAE	43,440	36,150	30,480	27,480	17,700	13,980	10,940	9,640
R*O350E4S**	ZS26KAE	48,350	40,330	33,600	30,320	19,590	15,520	12,150	10,710
R*O400E4S**	ZS29KAE	54,010	45,140	37,710	34,070	22,120	17,560	13,790	12,170
R*O450E4S**	ZS33KAE	60,720	50,610	42,490	38,310	24,660	19,460	15,220	13,410
R*O500E4S**	ZS38K4E	68,320	56,840	46,660	42,420	28,260	22,680	17,950	15,880
R*O600E4S**	ZS45K4E	80,860	67,300	55,630	50,700	34,240	27,730	22,150	19,660
95°F Ambient									
R*O130E4S**	ZS09KAE	14,500	12,850	10,640	9,670	6,400	5,110	4,040	3,570
R*O150E4S**	ZS11KAE	19,800	16,500	13,690	12,380	8,060	6,400	5,030	4,440
R*O180E4S**	ZS13KAE	21,900	18,250	15,320	13,880	9,100	7,250	5,710	5,050
R*O200E4S**	ZS15KAE	28,700	23,800	19,230	17,350	11,190	8,860	6,950	6,140
R*O250E4S**	ZS19KAE	32,200	26,800	21,060	19,060	12,400	9,830	7,730	6,830
R*O300E4S**	ZS21KAE	41,700	34,700	29,260	26,370	16,970	13,410	10,500	9,270
R*O350E4S**	ZS26KAE	46,400	38,700	32,240	29,080	18,790	14,890	11,670	10,300
R*O400E4S**	ZS29KAE	51,800	43,300	36,160	32,670	21,210	16,840	13,240	11,700
R*O450E4S**	ZS33KAE	58,300	48,600	40,790	36,760	23,650	18,670	14,620	12,890
R*O500E4S**	ZS38K4E	65,500	54,500	44,710	40,630	27,030	21,700	17,190	15,230
R*O600E4S**	ZS45K4E	77,500	64,500	53,280	48,530	32,730	26,520	21,230	18,880
100°F Ambient									
R*O130E4S**	ZS09KAE	—	12,260	10,150	9,220	6,110	4,880	3,860	3,420
R*O150E4S**	ZS11KAE	—	15,780	13,080	11,830	7,710	6,120	4,810	4,260
R*O180E4S**	ZS13KAE	—	17,430	14,640	13,260	8,690	6,930	5,470	4,840
R*O200E4S**	ZS15KAE	—	22,760	18,400	16,600	10,700	8,480	6,660	5,890
R*O250E4S**	ZS19KAE	—	25,630	20,130	18,220	11,860	9,410	7,400	6,550
R*O300E4S**	ZS21KAE	—	33,220	28,000	25,240	16,230	12,830	10,060	8,890
R*O350E4S**	ZS26KAE	—	37,050	30,850	27,830	17,970	14,240	11,180	9,870
R*O400E4S**	ZS29KAE	—	41,420	34,580	31,240	20,270	16,110	12,680	11,210
R*O450E4S**	ZS33KAE	—	46,540	39,050	35,190	22,630	17,870	14,010	12,370
R*O500E4S**	ZS38K4E	—	52,120	42,740	38,820	25,790	20,700	16,410	14,540
R*O600E4S**	ZS45K4E	—	61,650	50,900	46,350	31,220	25,300	20,290	18,070
110°F Ambient									
R*O130E4S**	ZS09KAE	—	—	9,120	8,290	5,500	4,390	3,480	3,090
R*O150E4S**	ZS11KAE	—	13,660	11,840	10,700	6,960	5,540	4,370	3,870
R*O180E4S**	ZS13KAE	—	15,030	13,220	11,970	7,840	6,260	4,950	4,390
R*O200E4S**	ZS15KAE	—	19,740	16,680	15,040	9,700	7,680	6,050	5,350
R*O250E4S**	ZS19KAE	—	22,200	18,220	16,480	10,720	8,510	6,710	5,950
R*O300E4S**	ZS21KAE	—	28,890	25,420	22,890	14,700	11,630	9,140	8,090
R*O350E4S**	ZS26KAE	—	32,190	27,990	25,220	16,260	12,890	10,140	8,970
R*O400E4S**	ZS29KAE	—	35,910	31,330	28,280	18,330	14,560	11,500	10,180
R*O450E4S**	ZS33KAE	—	40,500	35,450	31,930	20,490	16,200	12,720	11,250
R*O500E4S**	ZS38K4E	—	45,230	38,740	35,140	23,240	18,630	14,770	13,100
R*O600E4S**	ZS45K4E	—	53,410	46,090	41,930	28,140	22,810	18,340	16,390

* Each asterisk represents a variable character based upon model, voltage, and vintage ordered. See page 4 for nomenclature.

‡ Multiply capacity by .83 when used with 50 Hz power.

NEXT-GEN MINICON CONDENSING UNITS

Capacity Data (BTUH) - Extended Medium Temperature R407A Scroll - 60 Hz[‡]

SUCTION TEMPERATURE

MODEL	COMP. MODEL	45°F	35°F	30°F	25°F	20°F	0°F	-5°F	-10°F
90°F Ambient									
R*O130E4S**	ZS09KAE	16,150	13,120	11,650	10,590	9,610	6,380	5,700	5,070
R*O150E4S**	ZS11KAE	19,970	16,220	14,570	13,210	11,960	7,850	7,000	6,210
R*O180E4S**	ZS13KAE	22,440	18,270	16,420	14,900	13,510	8,920	7,960	7,070
R*O200E4S**	ZS15KAE	27,410	22,310	20,240	18,320	16,560	10,850	9,680	8,580
R*O250E4S**	ZS19KAE	30,560	24,830	22,610	20,490	18,540	12,180	10,870	9,640
R*O300E4S**	ZS21KAE	41,460	33,750	30,570	27,640	24,960	16,290	14,520	12,860
R*O350E4S**	ZS26KAE	46,680	37,930	33,770	30,560	27,620	18,060	16,110	14,270
R*O400E4S**	ZS29KAE	51,300	41,700	37,530	33,990	30,740	20,160	17,990	15,950
R*O450E4S**	ZS33KAE	59,050	48,010	43,300	39,160	35,350	23,070	20,560	18,220
R*O500E4S**	ZS38K4E	62,790	52,670	48,900	44,200	39,700	25,620	22,960	20,430
R*O600E4S**	ZS45K4E	71,990	59,580	51,310	47,590	43,900	29,890	26,730	23,770
95°F Ambient									
R*O130E4S**	ZS09KAE	15,450	12,550	11,230	10,220	9,270	6,140	5,490	4,880
R*O150E4S**	ZS11KAE	19,150	15,550	14,070	12,750	11,540	7,560	6,740	5,970
R*O180E4S**	ZS13KAE	21,500	17,500	15,850	14,390	13,040	8,590	7,670	6,800
R*O200E4S**	ZS15KAE	26,300	21,400	19,560	17,700	15,990	10,460	9,330	8,260
R*O250E4S**	ZS19KAE	29,300	23,800	21,850	19,800	17,900	11,740	10,470	9,280
R*O300E4S**	ZS21KAE	39,800	32,400	29,550	26,710	24,110	15,700	13,990	12,380
R*O350E4S**	ZS26KAE	44,800	36,400	32,640	29,520	26,670	17,410	15,510	13,740
R*O400E4S**	ZS29KAE	49,200	40,000	36,260	32,840	29,680	19,430	17,330	15,360
R*O450E4S**	ZS33KAE	56,700	46,100	41,850	37,840	34,150	22,240	19,810	17,540
R*O500E4S**	ZS38K4E	60,200	50,500	47,200	42,600	38,200	24,900	22,300	19,830
R*O600E4S**	ZS45K4E	69,000	57,100	50,080	46,430	42,810	29,100	26,010	23,120
100°F Ambient									
R*O130E4S**	ZS09KAE	—	11,970	10,820	9,850	8,930	5,910	5,280	4,680
R*O150E4S**	ZS11KAE	—	14,870	13,560	12,290	11,120	7,270	6,480	5,740
R*O180E4S**	ZS13KAE	—	16,710	15,280	13,860	12,560	8,270	7,370	6,530
R*O200E4S**	ZS15KAE	—	20,460	18,880	17,080	15,420	10,070	8,970	7,940
R*O250E4S**	ZS19KAE	—	22,760	21,080	19,100	17,260	11,300	10,080	8,920
R*O300E4S**	ZS21KAE	—	31,020	28,510	25,760	23,250	15,110	13,460	11,900
R*O350E4S**	ZS26KAE	—	34,850	31,490	28,470	25,720	16,750	14,920	13,200
R*O400E4S**	ZS29KAE	—	38,270	34,970	31,660	28,610	18,710	16,670	14,760
R*O450E4S**	ZS33KAE	—	44,150	40,390	36,500	32,940	21,400	19,050	16,860
R*O500E4S**	ZS38K4E	—	48,300	45,600	41,100	36,800	24,150	21,620	19,220
R*O600E4S**	ZS45K4E	—	54,580	48,840	45,270	41,720	28,310	25,280	22,450
110°F Ambient									
R*O130E4S**	ZS09KAE	—	—	9,990	9,090	8,250	5,440	—	—
R*O150E4S**	ZS11KAE	—	12,870	12,540	11,360	10,270	6,700	—	—
R*O180E4S**	ZS13KAE	—	14,410	14,120	12,810	11,600	7,620	—	—
R*O200E4S**	ZS15KAE	—	17,750	17,490	15,810	14,270	9,280	—	—
R*O250E4S**	ZS19KAE	—	19,710	19,530	17,690	15,980	10,430	—	—
R*O300E4S**	ZS21KAE	—	26,980	26,420	23,850	21,510	13,930	—	—
R*O350E4S**	ZS26KAE	—	30,270	29,160	26,350	23,780	15,440	—	—
R*O400E4S**	ZS29KAE	—	33,180	32,370	29,290	26,460	17,250	—	—
R*O450E4S**	ZS33KAE	—	38,420	37,420	33,790	30,480	19,730	—	—
R*O500E4S**	ZS38K4E	—	44,190	43,900	39,500	35,300	22,640	—	—
R*O600E4S**	ZS45K4E	—	47,280	46,310	42,880	39,480	26,670	—	—

* Each asterisk represents a variable character based upon model, voltage, and vintage ordered. See page 4 for nomenclature.

† Multiply capacity by .83 when used with 50 Hz power.

20°F Superheat Maximum

1/2 TO 6 HP

Capacity Data (BTUH) - Extended Medium Temperature R407C Scroll - 60 Hz[‡]

SUCTION TEMPERATURE

MODEL	COMP. MODEL	45°F	35°F	30°F	25°F	20°F	0°F	-5°F	-10°F
90°F Ambient									
R*O130E4S**	ZS09KAE	15,350	12,700	11,150	10,120	9,130	5,520	4,690	3,890
R*O150E4S**	ZS11KAE	18,980	15,700	13,950	12,630	11,360	6,790	5,760	4,760
R*O180E4S**	ZS13KAE	21,330	17,680	15,720	14,240	12,840	7,720	6,550	5,420
R*O200E4S**	ZS15KAE	26,050	21,590	19,380	17,510	15,740	9,390	7,960	6,580
R*O250E4S**	ZS19KAE	29,050	24,030	21,650	19,590	17,620	10,540	8,940	7,390
R*O300E4S**	ZS21KAE	40,110	33,250	29,790	26,900	24,140	14,350	12,150	10,030
R*O350E4S**	ZS26KAE	44,680	36,840	32,550	29,520	26,660	16,460	14,090	11,720
R*O400E4S**	ZS29KAE	49,540	41,010	36,510	33,020	29,680	17,730	15,030	12,420
R*O450E4S**	ZS33KAE	55,630	46,060	41,100	37,110	33,300	19,790	16,760	13,840
R*O500E4S**	ZS38K4E	62,630	52,540	48,780	44,090	39,600	25,560	22,900	20,380
R*O600E4S**	ZS45K4E	71,810	59,430	51,180	47,470	43,790	29,820	26,660	23,710
95°F Ambient									
R*O130E4S**	ZS09KAE	14,770	12,240	10,830	9,850	8,880	5,330	4,500	3,700
R*O150E4S**	ZS11KAE	18,300	15,170	13,560	12,280	11,060	6,560	5,530	4,530
R*O180E4S**	ZS13KAE	20,550	17,070	15,280	13,860	12,490	7,450	6,290	5,150
R*O200E4S**	ZS15KAE	25,140	20,880	18,860	17,050	15,320	9,080	7,650	6,260
R*O250E4S**	ZS19KAE	28,010	23,220	21,060	19,080	17,150	10,190	8,590	7,030
R*O300E4S**	ZS21KAE	38,720	32,180	29,000	26,190	23,510	13,870	11,680	9,550
R*O350E4S**	ZS26KAE	43,110	35,610	31,650	28,700	25,920	15,880	13,510	11,150
R*O400E4S**	ZS29KAE	47,790	39,660	35,520	32,150	28,900	17,130	14,440	11,830
R*O450E4S**	ZS33KAE	53,730	44,590	40,000	36,140	32,430	19,130	16,110	13,180
R*O500E4S**	ZS38K4E	60,050	50,370	47,080	42,490	38,110	24,840	22,240	19,780
R*O600E4S**	ZS45K4E	68,830	56,960	49,960	46,310	42,700	29,030	25,950	23,060
100°F Ambient									
R*O130E4S**	ZS09KAE	—	11,680	10,520	9,570	8,630	5,130	4,300	3,490
R*O150E4S**	ZS11KAE	—	14,510	13,180	11,940	10,750	6,310	5,280	4,280
R*O180E4S**	ZS13KAE	—	16,300	14,850	13,470	12,140	7,180	6,010	4,860
R*O200E4S**	ZS15KAE	—	19,970	18,350	16,600	14,900	8,740	7,310	5,910
R*O250E4S**	ZS19KAE	—	22,210	20,490	18,560	16,680	9,810	8,210	6,640
R*O300E4S**	ZS21KAE	—	30,800	28,200	25,480	22,870	13,350	11,170	9,020
R*O350E4S**	ZS26KAE	—	34,090	30,740	27,880	25,170	15,270	12,900	10,520
R*O400E4S**	ZS29KAE	—	37,940	34,540	31,260	28,100	16,500	13,810	11,170
R*O450E4S**	ZS33KAE	—	42,700	38,910	35,160	31,560	18,410	15,390	12,450
R*O500E4S**	ZS38K4E	—	48,180	45,490	41,000	36,710	24,090	21,570	19,170
R*O600E4S**	ZS45K4E	—	54,440	48,720	45,160	41,620	28,240	25,220	22,390
110°F Ambient									
R*O130E4S**	ZS09KAE	—	—	9,890	9,000	8,120	4,670	—	—
R*O150E4S**	ZS11KAE	—	12,110	12,410	11,250	10,110	5,760	—	—
R*O180E4S**	ZS13KAE	—	13,550	13,980	12,690	11,420	6,550	—	—
R*O200E4S**	ZS15KAE	—	16,690	17,320	15,660	14,040	7,970	—	—
R*O250E4S**	ZS19KAE	—	18,460	19,330	17,520	15,730	8,960	—	—
R*O300E4S**	ZS21KAE	—	28,560	26,620	24,040	21,550	12,180	—	—
R*O350E4S**	ZS26KAE	—	29,720	28,950	26,240	23,650	13,960	—	—
R*O400E4S**	ZS29KAE	—	35,720	32,560	29,480	26,460	15,060	—	—
R*O450E4S**	ZS33KAE	—	39,180	36,720	33,170	29,730	16,810	—	—
R*O500E4S**	ZS38K4E	—	44,180	43,790	39,400	35,210	22,580	—	—
R*O600E4S**	ZS45K4E	—	46,430	46,200	42,770	39,380	26,600	—	—

* Each asterisk represents a variable character based upon model, voltage, and vintage ordered. See page 4 for nomenclature.

† Multiply capacity by .83 when used with 50 Hz power.

20°F Superheat Maximum

NEXT-GEN MINICON CONDENSING UNITS

Capacity Data (BTUH) - Extended Medium Temperature R448A/449A Scroll - 60 Hz[‡]

SUCTION TEMPERATURE

MODEL	COMP. MODEL	45°F	35°F	30°F	25°F	20°F	0°F	-5°F	-10°F
90°F Ambient									
R*O130E4S**	ZS09KAE	15,870	12,600	11,100	10,030	9,070	6,000	5,340	4,710
R*O150E4S**	ZS11KAE	19,740	15,670	13,960	12,580	11,350	7,420	6,600	5,800
R*O180E4S**	ZS13KAE	22,150	17,630	15,710	14,180	12,810	8,430	7,490	6,600
R*O200E4S**	ZS15KAE	27,060	21,530	19,370	17,440	15,700	10,250	9,120	8,010
R*O250E4S**	ZS19KAE	30,050	23,870	21,560	19,430	17,510	11,470	10,200	8,970
R*O300E4S**	ZS21KAE	42,610	35,180	31,920	28,900	26,060	16,400	14,380	12,500
R*O350E4S**	ZS26KAE	47,490	38,490	34,140	30,840	27,810	18,070	16,200	14,140
R*O400E4S**	ZS29KAE	53,710	44,280	39,920	36,200	32,690	20,680	18,150	15,800
R*O450E4S**	ZS33KAE	60,040	49,500	44,720	40,500	36,510	22,980	20,150	17,520
R*O500E4S**	ZS38K4E	64,350	53,630	49,760	45,040	40,590	27,180	24,660	22,230
R*O600E4S**	ZS45K4E	73,700	60,600	52,450	48,680	45,020	31,600	28,610	25,790
95°F Ambient									
R*O130E4S**	ZS09KAE	15,210	12,050	10,700	9,680	8,750	5,820	5,210	4,630
R*O150E4S**	ZS11KAE	18,960	15,020	13,480	12,140	10,950	7,210	6,440	5,690
R*O180E4S**	ZS13KAE	21,260	16,880	15,170	13,690	12,360	8,180	7,320	6,480
R*O200E4S**	ZS15KAE	26,020	20,650	18,730	16,840	15,160	9,960	8,910	7,870
R*O250E4S**	ZS19KAE	28,880	22,880	20,840	18,770	16,900	11,140	9,950	8,810
R*O300E4S**	ZS21KAE	40,980	33,840	30,910	27,960	25,190	15,690	13,700	11,830
R*O350E4S**	ZS26KAE	45,770	36,940	33,020	29,760	26,770	17,270	15,460	13,370
R*O400E4S**	ZS29KAE	51,620	42,560	38,640	35,030	31,590	19,790	17,290	14,950
R*O450E4S**	ZS33KAE	57,760	47,620	43,310	39,190	35,290	21,990	19,190	16,580
R*O500E4S**	ZS38K4E	61,270	51,090	47,730	43,160	38,850	26,370	23,930	21,570
R*O600E4S**	ZS45K4E	70,140	57,700	50,910	47,250	43,700	30,710	27,810	25,080
100°F Ambient									
R*O130E4S**	ZS09KAE	—	11,460	10,290	9,310	8,400	5,630	5,070	4,520
R*O150E4S**	ZS11KAE	—	14,320	12,970	11,680	10,530	6,970	6,250	5,570
R*O180E4S**	ZS13KAE	—	16,080	14,600	13,150	11,870	7,920	7,110	6,330
R*O200E4S**	ZS15KAE	—	19,690	18,050	16,220	14,580	9,640	8,650	7,700
R*O250E4S**	ZS19KAE	—	21,820	20,070	18,060	16,260	10,780	9,680	8,620
R*O300E4S**	ZS21KAE	—	32,440	29,870	26,990	24,280	14,940	12,960	11,100
R*O350E4S**	ZS26KAE	—	35,230	31,790	28,560	25,620	16,350	14,620	12,550
R*O400E4S**	ZS29KAE	—	40,770	37,330	33,800	30,440	18,840	16,360	14,030
R*O450E4S**	ZS33KAE	—	45,680	41,860	37,840	34,030	20,920	18,150	15,560
R*O500E4S**	ZS38K4E	—	48,490	45,780	41,340	37,180	25,500	23,140	20,870
R*O600E4S**	ZS45K4E	—	54,730	49,330	45,790	42,350	29,790	26,980	24,330
110°F Ambient									
R*O130E4S**	ZS09KAE	—	—	9,390	8,460	7,640	5,160	—	—
R*O150E4S**	ZS11KAE	—	12,180	11,850	10,630	9,560	6,390	—	—
R*O180E4S**	ZS13KAE	—	13,630	13,330	11,980	10,790	7,250	—	—
R*O200E4S**	ZS15KAE	—	16,790	16,510	14,790	13,270	8,840	—	—
R*O250E4S**	ZS19KAE	—	18,570	18,370	16,480	14,800	9,890	—	—
R*O300E4S**	ZS21KAE	—	28,220	27,700	24,950	22,340	13,250	—	—
R*O350E4S**	ZS26KAE	—	29,840	28,860	25,710	22,850	14,040	—	—
R*O400E4S**	ZS29KAE	—	35,360	34,570	31,210	28,000	16,710	—	—
R*O450E4S**	ZS33KAE	—	39,760	38,810	34,960	31,320	18,560	—	—
R*O500E4S**	ZS38K4E	—	42,350	41,920	36,460	34,000	23,650	—	—
R*O600E4S**	ZS45K4E	—	46,550	46,050	42,720	39,510	27,820	—	—

* Each asterisk represents a variable character based upon model, voltage, and vintage ordered. See page 4 for nomenclature.

‡ Multiply capacity by .83 when used with 50 Hz power.

20°F Superheat Maximum

1/2 TO 6 HP

Capacity Data (BTUH) - Low Temperature R404A Hermetic - 60 Hz[†]

SUCTION TEMPERATURE

MODEL	COMP. MODEL	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F
90°F Ambient								
R*H100L44**	CF04K6E	6,450	5,490	4,640	3,880	3,170	2,500	1,850
R*H150L44**	CF06K6E	10,120	8,920	7,750	6,600	5,480	4,440	3,480
R*H200L44**	CF09K6E	15,650	13,810	11,990	10,250	8,580	7,000	5,530
R*H300L44**	CF12K6E	20,270	18,020	15,830	13,690	11,620	9,600	7,630
R*H055E44***^	RST45C1E	3,390	2,940	2,520	2,100	1,700	1,310	—
R*H080E44***^	RST55C1E	3,960	3,420	2,930	2,480	2,070	1,690	—
R*H090E44***^	RST64C1E	5,250	4,590	3,980	3,400	2,870	2,370	—
R*H100E44***^	RST70C1E	5,250	4,560	3,920	3,350	2,830	2,360	—
R*H125E44***^	RST97C1E	7,640	6,690	5,820	5,020	4,300	3,680	—
R*H150E44***^	CS10K6E	7,530	6,270	5,110	4,050	3,130	2,340	—
R*H200E44***^	CS12K6E	8,640	7,270	5,970	4,750	3,580	2,470	—
R*H250E44***^	CS14K6E	10,980	9,350	7,840	6,460	5,230	4,150	—
R*H300E44***^	CS18K6E	13,300	11,240	9,330	7,610	6,120	4,890	—
R*H325E44***^	CS20K6E	16,050	13,740	11,600	9,580	7,610	5,670	—
95°F Ambient								
R*H100L44**	CF04K6E	5,920	5,000	4,210	3,490	2,830	2,200	1,580
R*H150L44**	CF06K6E	9,470	8,320	7,200	6,090	5,030	4,030	3,130
R*H200L44**	CF09K6E	14,690	12,910	11,180	9,510	7,920	6,420	5,030
R*H300L44**	CF12K6E	19,040	16,890	14,800	12,760	10,780	8,840	6,950
R*H055E44***^	RST45C1E	3,210	2,780	2,370	1,970	1,580	1,200	—
R*H080E44***^	RST55C1E	3,720	3,200	2,730	2,300	1,900	1,540	—
R*H090E44***^	RST64C1E	4,970	4,340	3,740	3,190	2,670	2,200	—
R*H100E44***^	RST70C1E	4,970	4,310	3,690	3,140	2,640	2,190	—
R*H125E44***^	RST97C1E	7,230	6,320	5,470	4,710	4,020	3,420	—
R*H150E44***^	CS10K6E	6,920	5,720	4,610	3,610	2,740	1,990	—
R*H200E44***^	CS12K6E	7,970	6,650	5,410	4,240	3,130	2,070	—
R*H250E44***^	CS14K6E	10,240	8,690	7,250	5,940	4,760	3,740	—
R*H300E44***^	CS18K6E	12,310	10,340	8,530	6,910	5,520	4,370	—
R*H325E44***^	CS20K6E	14,770	12,570	10,530	8,590	6,720	4,870	—
100°F Ambient								
R*H100L44**	CF04K6E	5,360	4,500	3,770	3,100	2,480	1,900	1,320
R*H150L44**	CF06K6E	8,820	7,710	6,650	5,600	4,580	3,640	2,790
R*H200L44**	CF09K6E	13,740	12,030	10,380	8,790	7,280	5,860	4,540
R*H300L44**	CF12K6E	17,810	15,770	13,790	11,840	9,950	8,100	6,280
R*H055E44***^	RST45C1E	3,030	2,620	2,220	1,830	1,460	1,090	—
R*H080E44***^	RST55C1E	3,490	2,990	2,540	2,120	1,740	1,400	—
R*H090E44***^	RST64C1E	4,700	4,090	3,510	2,980	2,480	2,030	—
R*H100E44***^	RST70C1E	4,690	4,050	3,460	2,930	2,450	2,020	—
R*H125E44***^	RST97C1E	6,810	5,930	5,120	4,390	3,730	3,150	—
R*H150E44***^	CS10K6E	6,320	5,170	4,120	3,170	2,350	1,640	—
R*H200E44***^	CS12K6E	7,300	6,040	4,860	3,750	2,700	1,690	—
R*H250E44***^	CS14K6E	9,510	8,040	6,670	5,420	4,300	3,320	—
R*H300E44***^	CS18K6E	11,330	9,470	7,760	6,240	4,940	3,890	—
R*H325E44***^	CS20K6E	13,510	11,410	9,460	7,620	5,840	4,080	—
110°F Ambient								
R*H100L44**	CF04K6E	4,240	3,500	2,880	2,320	1,810	1,320	850
R*H150L44**	CF06K6E	7,510	6,520	5,570	4,630	3,730	2,900	2,160
R*H200L44**	CF09K6E	11,850	10,300	8,810	7,370	6,020	4,760	3,610
R*H300L44**	CF12K6E	15,390	13,560	11,780	10,040	8,330	6,660	5,010
R*H055E44***^	RST45C1E	2,660	2,280	1,920	1,560	1,220	880	—
R*H080E44***^	RST55C1E	3,040	2,590	2,180	1,810	1,470	1,150	—
R*H090E44***^	RST64C1E	4,150	3,590	3,070	2,580	2,130	1,710	—
R*H100E44***^	RST70C1E	4,100	3,520	2,980	2,490	2,060	1,660	—
R*H125E44***^	RST97C1E	5,960	5,160	4,420	3,740	3,140	2,620	—
R*H150E44***^	CS10K6E	5,120	4,090	3,140	2,300	1,570	940	—
R*H200E44***^	CS12K6E	6,000	4,870	3,810	2,830	1,900	1,030	—
R*H250E44***^	CS14K6E	8,050	6,730	5,500	4,390	3,390	2,520	—
R*H300E44***^	CS18K6E	9,460	7,800	6,290	4,970	3,870	3,000	—
R*H325E44***^	CS20K6E	11,050	9,150	7,380	5,710	4,110	2,510	—

* Each asterisk represents a variable character based upon model, voltage, and vintage ordered. See page 4 for nomenclature.

† Multiply capacity by .83 when used with 50 Hz power.

^ An optional Electric Defrost kit must be ordered in lieu of the standard Air Defrost Timer when extended range medium temperature models are used for low temperature applications.

NEXT-GEN MINICON CONDENSING UNITS

Capacity Data (BTUH) - Low Temperature R404A Scroll - 60 Hz[‡]

SUCTION TEMPERATURE

MODEL	COMP. MODEL	0°F	-5°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
90°F Ambient									
R*O200L4S**	ZF06K4E	11,290	10,200	8,220	7,320	6,480	5,700	4,990	4,320
R*O250L4S**	ZF08K4E	14,770	13,290	10,640	9,470	8,390	7,400	6,500	5,670
R*O300L4S**	ZF09K4E	16,190	14,610	11,760	10,500	9,320	8,240	7,230	6,290
R*O350L4S**	ZF11K4E	19,400	17,560	14,190	12,670	11,260	9,950	8,750	7,630
R*O400L4S**	ZF13K4E	23,970	21,490	17,060	15,080	13,260	11,590	10,090	8,720
R*O500L4S**	ZF15K4E	28,630	25,820	20,770	18,520	16,450	14,530	12,760	11,150
R*O600L4S**	ZF18K4E	32,720	29,530	23,790	21,220	18,850	16,660	14,630	12,760
95°F Ambient									
R*O200L4S**	ZF06K4E	10,810	9,770	7,870	7,020	6,210	5,460	4,770	4,130
R*O250L4S**	ZF08K4E	14,130	12,720	10,190	9,070	8,040	7,090	6,210	5,420
R*O300L4S**	ZF09K4E	15,480	13,980	11,260	10,050	8,930	7,890	6,920	6,020
R*O350L4S**	ZF11K4E	18,530	16,780	13,580	12,120	10,780	9,530	8,380	7,310
R*O400L4S**	ZF13K4E	22,930	20,550	16,300	14,390	12,640	11,040	9,580	8,270
R*O500L4S**	ZF15K4E	27,350	24,660	19,840	17,690	15,710	13,880	12,200	10,650
R*O600L4S**	ZF18K4E	31,310	28,270	22,800	20,350	18,080	15,980	14,040	12,240
100°F Ambient									
R*O200L4S**	ZF06K4E	10,320	9,330	7,530	6,710	5,940	5,220	4,550	3,930
R*O250L4S**	ZF08K4E	13,490	12,140	9,730	8,660	7,670	6,760	5,920	5,160
R*O300L4S**	ZF09K4E	14,760	13,340	10,750	9,590	8,520	7,530	6,600	5,740
R*O350L4S**	ZF11K4E	17,650	15,980	12,940	11,560	10,280	9,090	8,000	6,980
R*O400L4S**	ZF13K4E	21,860	19,590	15,520	13,700	12,020	10,480	9,090	7,830
R*O500L4S**	ZF15K4E	26,040	23,480	18,890	16,850	14,960	13,220	11,620	10,150
R*O600L4S**	ZF18K4E	29,890	27,000	21,790	19,450	17,290	15,280	13,430	11,710
105°F Ambient									
R*O200L4S**	ZF06K4E	9,830	8,890	7,180	6,400	5,670	4,980	4,340	3,740
R*O250L4S**	ZF08K4E	12,830	11,550	9,250	8,230	7,290	6,420	5,620	4,890
R*O300L4S**	ZF09K4E	14,040	12,680	10,220	9,120	8,100	7,160	6,280	5,450
R*O350L4S**	ZF11K4E	16,740	15,160	12,290	10,980	9,760	8,640	7,600	6,640
R*O400L4S**	ZF13K4E	20,770	18,610	14,730	13,010	11,410	9,940	8,610	7,400
R*O500L4S**	ZF15K4E	24,710	22,280	17,920	15,990	14,200	12,550	11,020	9,620
R*O600L4S**	ZF18K4E	28,450	25,700	20,760	18,540	16,480	14,580	12,810	11,180
110°F Ambient									
R*O200L4S**	ZF06K4E	9,340	8,450	6,830	6,090	5,390	4,740	4,130	3,550
R*O250L4S**	ZF08K4E	12,150	10,940	8,760	7,790	6,900	6,070	5,320	4,620
R*O300L4S**	ZF09K4E	13,300	12,010	9,690	8,650	7,680	6,780	5,940	5,160
R*O350L4S**	ZF11K4E	15,820	14,320	11,610	10,380	9,230	8,170	7,190	6,280
R*O400L4S**	ZF13K4E	19,670	17,630	13,950	12,310	10,800	9,410	8,150	7,000
R*O500L4S**	ZF15K4E	23,360	21,060	16,940	15,100	13,410	11,850	10,410	9,090
R*O600L4S**	ZF18K4E	26,990	24,390	19,700	17,610	15,660	13,850	12,180	10,630

* Each asterisk represents a variable character based upon model, voltage, and vintage ordered. See page 4 for nomenclature.

‡ Multiply capacity by .83 when used with 50 Hz power.

1/2 TO 6 HP

Capacity Data (BTUH) - Low Temperature R407A Scroll - 60 Hz[‡]

SUCTION TEMPERATURE

MODEL	COMP. MODEL	0°F	-5°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
90°F Ambient									
R*O200L4S**	ZF06K4E	9,620	8,470	6,510	5,690	4,950	4,280	3,690	3,160
R*O250L4S**	ZF08K4E	12,820	11,450	8,990	7,900	6,910	6,000	5,190	4,470
R*O300L4S**	ZF09K4E	14,170	12,830	10,140	8,870	7,710	6,690	5,840	5,190
R*O350L4S**	ZF11K4E	17,510	15,880	12,560	10,990	9,530	8,260	7,200	6,410
R*O400L4S**	ZF13K4E	20,980	18,640	14,390	12,520	10,860	9,440	8,300	7,450
R*O500L4S**	ZF15K4E	25,620	22,750	17,620	15,420	13,480	11,830	10,490	9,490
R*O600L4S**	ZF18K4E	30,490	27,200	21,220	18,600	16,270	14,260	12,600	11,320
95°F Ambient									
R*O200L4S**	ZF06K4E	9,380	8,250	6,340	5,530	4,800	4,160	3,570	3,050
R*O250L4S**	ZF08K4E	12,390	11,060	8,690	7,630	6,670	5,790	5,000	4,300
R*O300L4S**	ZF09K4E	13,700	12,410	9,820	8,590	7,460	6,460	5,630	4,990
R*O350L4S**	ZF11K4E	16,920	15,360	12,160	10,630	9,220	7,980	6,950	6,170
R*O400L4S**	ZF13K4E	20,300	18,000	13,830	12,020	10,420	9,070	7,990	7,210
R*O500L4S**	ZF15K4E	24,790	21,990	16,980	14,830	12,960	11,370	10,080	9,130
R*O600L4S**	ZF18K4E	29,540	26,330	20,500	17,950	15,690	13,750	12,160	10,930
100°F Ambient									
R*O200L4S**	ZF06K4E	9,130	8,030	6,160	5,370	4,660	4,030	3,460	2,950
R*O250L4S**	ZF08K4E	11,940	10,660	8,370	7,350	6,420	5,570	4,810	4,130
R*O300L4S**	ZF09K4E	13,240	12,000	9,500	8,310	7,220	6,240	5,430	4,800
R*O350L4S**	ZF11K4E	16,330	14,830	11,750	10,280	8,920	7,710	6,700	5,930
R*O400L4S**	ZF13K4E	19,610	17,340	13,270	11,510	9,980	8,690	7,680	6,960
R*O500L4S**	ZF15K4E	23,950	21,200	16,320	14,230	12,410	10,880	9,650	8,740
R*O600L4S**	ZF18K4E	28,580	25,440	19,770	17,290	15,100	13,230	11,690	10,530
105°F Ambient									
R*O200L4S**	ZF06K4E	8,870	7,800	5,980	5,210	4,520	3,900	3,340	2,840
R*O250L4S**	ZF08K4E	11,480	10,260	8,050	7,070	6,170	5,350	4,610	3,950
R*O300L4S**	ZF09K4E	12,770	11,590	9,190	8,040	6,970	6,030	5,230	4,610
R*O350L4S**	ZF11K4E	15,730	14,300	11,350	9,930	8,610	7,440	6,460	5,710
R*O400L4S**	ZF13K4E	18,890	16,670	12,700	11,000	9,520	8,300	7,350	6,700
R*O500L4S**	ZF15K4E	23,080	20,400	15,640	13,610	11,850	10,370	9,190	8,320
R*O600L4S**	ZF18K4E	27,600	24,540	19,020	16,620	14,500	12,690	11,210	10,100
110°F Ambient									
R*O200L4S**	ZF06K4E	8,620	7,580	5,800	5,050	4,370	3,770	3,230	2,740
R*O250L4S**	ZF08K4E	11,010	9,840	7,710	6,770	5,900	5,120	4,400	3,770
R*O300L4S**	ZF09K4E	12,310	11,180	8,870	7,770	6,740	5,820	5,040	4,430
R*O350L4S**	ZF11K4E	15,130	13,760	10,940	9,580	8,310	7,170	6,220	5,480
R*O400L4S**	ZF13K4E	18,150	15,970	12,110	10,470	9,060	7,900	7,010	6,430
R*O500L4S**	ZF15K4E	22,180	19,570	14,930	12,970	11,260	9,840	8,710	7,890
R*O600L4S**	ZF18K4E	26,600	23,620	18,260	15,930	13,870	12,130	10,710	9,650

* Each asterisk represents a variable character based upon model, voltage, and vintage ordered. See page 4 for nomenclature.

‡ Multiply capacity by .83 when used with 50 Hz power.

NEXT-GEN MINICON CONDENSING UNITS

Capacity Data (BTUH) - Low Temperature R407C Scroll - 60 Hz[‡]

SUCTION TEMPERATURE

MODEL	COMP. MODEL	0°F	-5°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
90°F Ambient									
R*O200L4S**	ZF06K4E	9,090	7,940	6,070	5,300	4,620	4,000	3,450	2,930
R*O250L4S**	ZF08K4E	12,220	10,850	8,490	7,460	6,530	5,670	4,890	4,170
R*O300L4S**	ZF09K4E	13,500	12,160	9,570	8,380	7,290	6,320	5,500	4,840
R*O350L4S**	ZF11K4E	16,600	15,020	11,840	10,340	8,950	7,750	6,760	6,040
R*O400L4S**	ZF13K4E	19,620	17,420	13,390	11,610	10,040	8,700	7,650	6,890
R*O500L4S**	ZF15K4E	23,910	21,270	16,440	14,340	12,480	10,910	9,660	8,770
R*O600L4S**	ZF18K4E	28,450	25,410	19,780	17,290	15,080	13,190	11,660	10,530
95°F Ambient									
R*O200L4S**	ZF06K4E	8,880	7,750	5,920	5,170	4,490	3,900	3,350	2,840
R*O250L4S**	ZF08K4E	11,810	10,490	8,210	7,210	6,310	5,480	4,720	4,010
R*O300L4S**	ZF09K4E	13,060	11,770	9,280	8,120	7,060	6,110	5,310	4,660
R*O350L4S**	ZF11K4E	16,050	14,540	11,470	10,010	8,670	7,490	6,530	5,820
R*O400L4S**	ZF13K4E	19,000	16,830	12,870	11,150	9,640	8,370	7,370	6,680
R*O500L4S**	ZF15K4E	23,160	20,580	15,850	13,800	12,010	10,490	9,290	8,450
R*O600L4S**	ZF18K4E	27,590	24,620	19,120	16,700	14,560	12,730	11,260	10,180
100°F Ambient									
R*O200L4S**	ZF06K4E	8,680	7,580	5,790	5,050	4,390	3,810	3,260	2,760
R*O250L4S**	ZF08K4E	11,410	10,130	7,920	6,960	6,090	5,290	4,550	3,870
R*O300L4S**	ZF09K4E	12,650	11,400	8,990	7,870	6,850	5,920	5,140	4,500
R*O350L4S**	ZF11K4E	15,530	14,070	11,100	9,690	8,390	7,250	6,310	5,600
R*O400L4S**	ZF13K4E	18,390	16,240	12,370	10,700	9,240	8,030	7,090	6,460
R*O500L4S**	ZF15K4E	22,430	19,880	15,270	13,270	11,520	10,060	8,910	8,110
R*O600L4S**	ZF18K4E	26,770	23,840	18,480	16,120	14,040	12,280	10,860	9,840
105°F Ambient									
R*O200L4S**	ZF06K4E	8,470	7,400	5,650	4,930	4,290	3,710	3,170	2,660
R*O250L4S**	ZF08K4E	10,990	9,770	7,630	6,710	5,870	5,090	4,380	3,720
R*O300L4S**	ZF09K4E	12,230	11,030	8,710	7,630	6,630	5,740	4,970	4,340
R*O350L4S**	ZF11K4E	15,000	13,600	10,740	9,370	8,110	7,000	6,090	5,400
R*O400L4S**	ZF13K4E	17,750	15,650	11,860	10,240	8,830	7,680	6,800	6,230
R*O500L4S**	ZF15K4E	21,670	19,180	14,670	12,720	11,020	9,610	8,510	7,750
R*O600L4S**	ZF18K4E	25,920	23,050	17,820	15,520	13,510	11,800	10,440	9,480
110°F Ambient									
R*O200L4S**	ZF06K4E	8,270	7,230	5,510	4,800	4,170	3,600	3,080	2,570
R*O250L4S**	ZF08K4E	10,560	9,380	7,320	6,440	5,630	4,890	4,200	3,570
R*O300L4S**	ZF09K4E	11,810	10,660	8,430	7,390	6,430	5,560	4,810	4,190
R*O350L4S**	ZF11K4E	14,480	13,120	10,370	9,050	7,840	6,750	5,860	5,190
R*O400L4S**	ZF13K4E	17,100	15,030	11,340	9,780	8,430	7,340	6,510	6,000
R*O500L4S**	ZF15K4E	20,880	18,450	14,040	12,150	10,500	9,140	8,090	7,380
R*O600L4S**	ZF18K4E	25,050	22,250	17,140	14,910	12,940	11,300	10,000	9,090

* Each asterisk represents a variable character based upon model, voltage, and vintage ordered. See page 4 for nomenclature.

‡ Multiply capacity by .83 when used with 50 Hz power.

1/2 TO 6 HP

Capacity Data (BTUH) - Low Temperature R448A/449A Scroll - 60 Hz[‡]

SUCTION TEMPERATURE

MODEL	COMP. MODEL	0°F	-5°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
90°F Ambient									
R*O200L4S**	ZF06K4E	9,960	8,730	6,690	5,850	5,100	4,440	3,860	3,360
R*O250L4S**	ZF08K4E	13,370	11,930	9,360	8,240	7,220	6,270	5,430	4,660
R*O300L4S**	ZF09K4E	14,840	13,280	10,500	9,270	8,160	7,160	6,240	5,400
R*O350L4S**	ZF11K4E	18,310	16,420	12,990	11,490	10,090	8,850	7,710	6,690
R*O400L4S**	ZF13K4E	22,470	19,930	15,470	13,530	11,780	10,230	8,890	7,740
R*O500L4S**	ZF15K4E	27,380	24,340	19,000	16,700	14,640	12,810	11,200	9,830
R*O600L4S**	ZF18K4E	32,560	29,050	22,850	20,140	17,690	15,490	13,520	11,790
95°F Ambient									
R*O200L4S**	ZF06K4E	9,740	8,540	6,540	5,710	4,970	4,340	3,760	3,250
R*O250L4S**	ZF08K4E	12,950	11,550	9,080	7,980	6,990	6,070	5,240	4,500
R*O300L4S**	ZF09K4E	14,400	12,870	10,180	9,000	7,920	6,940	6,050	5,230
R*O350L4S**	ZF11K4E	17,760	15,920	12,610	11,140	9,800	8,580	7,490	6,490
R*O400L4S**	ZF13K4E	21,600	19,150	14,840	12,990	11,330	9,870	8,610	7,550
R*O500L4S**	ZF15K4E	26,340	23,420	18,280	16,070	14,120	12,380	10,850	9,560
R*O600L4S**	ZF18K4E	31,360	27,990	22,040	19,440	17,110	15,020	13,160	11,520
100°F Ambient									
R*O200L4S**	ZF06K4E	9,520	8,350	6,390	5,580	4,860	4,230	3,670	3,170
R*O250L4S**	ZF08K4E	12,520	11,170	8,780	7,720	6,760	5,870	5,070	4,340
R*O300L4S**	ZF09K4E	13,950	12,470	9,860	8,710	7,680	6,720	5,860	5,060
R*O350L4S**	ZF11K4E	17,190	15,400	12,200	10,790	9,500	8,320	7,250	6,290
R*O400L4S**	ZF13K4E	20,710	18,340	14,210	12,450	10,890	9,520	8,360	7,380
R*O500L4S**	ZF15K4E	25,260	22,450	17,550	15,440	13,580	11,940	10,510	9,290
R*O600L4S**	ZF18K4E	30,130	26,890	21,210	18,750	16,530	14,560	12,810	11,280
105°F Ambient									
R*O200L4S**	ZF06K4E	9,290	8,150	6,250	5,450	4,750	4,130	3,570	3,080
R*O250L4S**	ZF08K4E	12,080	10,800	8,490	7,470	6,540	5,680	4,900	4,180
R*O300L4S**	ZF09K4E	13,480	12,060	9,540	8,440	7,420	6,510	5,670	4,890
R*O350L4S**	ZF11K4E	16,610	14,880	11,790	10,430	9,180	8,050	7,020	6,090
R*O400L4S**	ZF13K4E	19,770	17,500	13,580	11,910	10,450	9,190	8,120	7,240
R*O500L4S**	ZF15K4E	24,140	21,460	16,800	14,810	13,050	11,510	10,180	9,040
R*O600L4S**	ZF18K4E	28,850	25,770	20,380	18,050	15,970	14,120	12,480	11,060
110°F Ambient									
R*O200L4S**	ZF06K4E	9,080	7,970	6,100	5,330	4,640	4,030	3,500	3,010
R*O250L4S**	ZF08K4E	11,650	10,410	8,190	7,210	6,310	5,490	4,720	4,030
R*O300L4S**	ZF09K4E	13,020	11,640	9,200	8,150	7,180	6,290	5,480	4,730
R*O350L4S**	ZF11K4E	16,010	14,330	11,360	10,050	8,860	7,760	6,780	5,860
R*O400L4S**	ZF13K4E	18,810	16,640	12,940	11,380	10,030	8,880	7,900	7,140
R*O500L4S**	ZF15K4E	22,980	20,440	16,030	14,170	12,520	11,100	9,870	8,830
R*O600L4S**	ZF18K4E	27,540	24,620	19,540	17,370	15,410	13,700	12,190	10,880

* Each asterisk represents a variable character based upon model, voltage, and vintage ordered. See page 4 for nomenclature.

‡ Multiply capacity by .83 when used with 50 Hz power.

NEXT-GEN MINICON CONDENSING UNITS

Electrical Data - Hermetic

BASE MODEL NUMBER	COMP. MODEL	COMPRESSOR		COND. FAN FLA	AIR DEFROST		MAX. EVAP. FAN AMPS [†]	MAX DEFROST AMPS [†]	ELECTRIC DEFROST		ELECTRIC DEFROST KIT [†]
		RLA	LRA		MCA	MOPD			MCA	MOPD	
200-220V/1/50 Hz[^]											
R*H055E44**	RST45C1E	5.1	26.5	0.5	15.0	15	4.0	15.0	19.7	20	ED-5
R*H080E44**	RST55C1E	6.3	33.7	0.5	15.0	15	4.0	15.0	19.7	20	ED-5
R*H090E44**	RST64C1E	8.5	43.0	0.5	15.0	20	4.0	15.0	19.7	20	ED-5
R*H150E44**	CS10K6E	9.8	56.0	1.0	15.0	20	6.0	20.0	26.0	30	ED-6
R*H200E44**	CS12K6E	9.8	56.0	1.0	15.0	20	6.0	20.0	26.0	30	ED-6
R*H250E44**	CS14K6E	11.2	61.0	1.0	16.0	25	10.0	25.0	32.2	35	ED-7
R*H300E44**	CS18K6E	14.4	82.0	1.0	20.0	30	10.0	25.0	32.2	40	ED-7
R*H325E44**	CS20K6E	13.8	75.9	3.1	21.3	35	12.0	30.0	38.5	45	ED-10
R*H100L44**	CF04K6E	8.6	59.2	0.5	—	—	4.0	15.0	19.7	20	ED-5
R*H150L44**	CF06K6E	10.3	59.2	0.5	—	—	4.0	15.0	19.7	25	ED-5
R*H200L44**	CF09K6E	15.0	87.0	1.0	—	—	6.0	25.0	32.2	40	ED-7
R*H300L44**	CF12K6E	18.4	105.0	1.0	—	—	10.0	25.0	35.0	50	ED-7
208-230V/1/60 Hz											
R*H055E44**	RST45C1E	4.6	26.5	0.5	15.0	15	4.0	15.0	19.7	20	ED-5
R*H080E44**	RST55C1E	6.1	33.7	0.5	15.0	15	4.0	15.0	19.7	20	ED-5
R*H090E44**	RST64C1E	8.1	43.0	0.5	15.0	15	4.0	15.0	19.7	20	ED-5
R*H100E44**	RST70C1E	6.9	46.0	0.5	15.0	15	4.0	15.0	19.7	20	ED-5
R*H125E44**	RST97C1E	9.0	51.0	0.5	15.0	20	4.0	15.0	19.7	25	ED-5
R*H150E44**	CS10K6E	9.8	56.0	1.0	15.0	20	6.0	20.0	26.0	30	ED-6
R*H200E44**	CS12K6E	9.8	56.0	1.0	15.0	20	6.0	20.0	26.0	30	ED-6
R*H250E44**	CS14K6E	11.2	61.0	1.0	16.0	25	10.0	25.0	32.2	35	ED-7
R*H300E44**	CS18K6E	14.4	82.0	1.0	20.0	30	10.0	25.0	32.2	40	ED-7
R*H325E44**	CS20K6E	16.7	96.0	3.1	24.9	40	12.0	30.0	38.5	50	ED-10
R*H100L44**	CF04K6E	8.6	59.2	0.5	—	—	4.0	15.0	19.7	20	ED-5
R*H150L44**	CF06K6E	10.3	59.2	0.5	—	—	4.0	15.0	19.7	25	ED-5
R*H200L44**	CF09K6E	15.0	87.0	1.0	—	—	6.0	25.0	32.2	40	ED-7
R*H300L44**	CF12K6E	18.4	105.0	1.0	—	—	10.0	25.0	35.0	50	ED-7
208-230V/3/60 Hz, 200-220V/3/50 Hz⁺											
R*H100E44*** ^{AA}	RST70C1E	4.9	36.0	0.5	15.0	15	4.0	15.0	19.7	20	ED-5
R*H125E44*** ^{AA}	RST97C1E	5.4	36.0	1.0	15.0	15	6.0	15.0	19.7	20	ED-5
R*H150E44*** ^{AA}	CS10K6E	6.7	51.0	1.0	15.0	15	6.0	15.0	19.7	20	ED-5
R*H200E44*** ^{AA}	CS12K6E	6.7	51.0	1.0	15.0	15	6.0	15.0	19.7	20	ED-5
R*H250E44**	CS14K6E	8.2	55.0	1.0	15.0	20	10.0	20.0	26.0	30	ED-6
R*H300E44**	CS18K6E	9.4	65.5	1.0	15.0	20	10.0	20.0	26.0	30	ED-6
R*H325E44**	CS20K6E	10.2	75.0	3.1	16.8	25	12.0	25.0	32.2	35	ED-7
R*H100L44**	CF04K6E	5.7	52.0	0.5	—	—	4.0	15.0	19.7	20	ED-5
R*H150L44**	CF06K6E	6.3	52.0	0.5	—	—	4.0	15.0	19.7	20	ED-5
R*H200L44**	CF09K6E	9.2	72.2	1.0	—	—	6.0	15.0	19.7	25	ED-5
R*H300L44**	CF12K6E	11.0	85.0	1.0	—	—	10.0	25.0	32.2	35	ED-7
460V/3/60 Hz, 380V/3/50 Hz⁺⁺											
R*H150E44**	CS10K6E	3.2	25.0	0.8	15.0	15	3.0	15.0	19.7	20	ED-17
R*H250E44**	CS14K6E	4.2	28.0	0.8	15.0	15	5.0	15.0	19.7	20	ED-17
R*H300E44**	CS18K6E	4.2	33.0	0.8	15.0	15	5.0	15.0	19.7	20	ED-17
R*H325E44**	CS20K6E	4.6	40.0	2.5	15.0	15	6.0	15.0	19.7	20	ED-17
R*H150L44**	CF06K6E	3.3	25.4	0.4	—	—	2.0	15.0	19.7	20	ED-17
R*H200L44**	CF09K6E	4.9	35.8	0.8	—	—	3.0	15.0	19.7	20	ED-17
R*H300L44**	CF12K6E	5.9	42.0	0.8	—	—	5.0	15.0	19.7	20	ED-17

* Each asterisk represents a variable character based upon model, voltage, and vintage ordered. See page 4 for nomenclature.

RLA = Rated Load Amps LRA = Locked Rotor Amps MCA = Minimum Circuit Ampacity MOPD = Maximum Overcurrent Protection

MCA includes 1 amp allowance for control circuit requirement.

† Note: Maximum Evap. fan amps and maximum defrost amps are shown to provide ratings when electric defrost is required and is an optional feature. Maximum Amp value used to determine MOPD. Exceeding these values invalidates the listed MOPD and requires a revised calculation. Contact Application Engineering when amp draw requirements deviate from the chart values.

[^] R*H100E44 is not available in 200-220V/1/50 Hz.

^{AA} R*H100E44, R*H125E44, R*H150E44, and R*H200E44 are not available in 200-220V/3/50 Hz.

[‡] R*H055E44, R*H080E44, and R*H090E44 are not available in 208-230V/3/60 Hz.

^{##} R*H055E44, R*H080E44, R*H090E44, R*H100L44, R*H125E44 and R*H200E44 are not available in 460V/3/60 Hz.

1/2 TO 6 HP

Electrical Data - Scroll

BASE MODEL NUMBER	COMP. MODEL	COMPRESSOR		COND. FAN FLA	AIR DEFROST		MAX. EVAP. FAN AMP [†]	MAX DEFROST AMP [†]	ELECTRIC DEFROST		ELECTRIC DEFROST KIT [†]
		RLA	LRA		MCA	MOPD			MCA	MOPD	

200-220V/1/50 Hz[▲]

R*O130E4S**	ZS09KAE	8.0	45.0	0.5	15.0	15	4.0	15.0	19.7	20	ED-5
R*O150E4S**	ZS11KAE	9.2	45.0	1.0	15.0	20	6.0	20.0	26.0	30	ED-6
R*O180E4S**	ZS13KAE	10.1	54.0	1.0	15.0	20	6.0	20.0	26.0	30	ED-6
R*O200E4S**	ZS15KAE	12.4	61.0	1.0	17.5	25	10.0	25.0	32.2	35	ED-7
R*O250E4S**	ZS19KAE	14.5	79.0	1.0	20.1	30	10.0	25.0	32.2	40	ED-7
R*O300E4S**	ZS21KAE	17.2	87.0	3.1	25.6	40	12.0	30.0	38.5	50	ED-10
R*O350E4S**	ZS26KAE	17.8	122.0	3.1	26.3	40	12.0	30.0	38.5	50	ED-10
R*O400E4S**	ZS29KAE	19.4	133.0	3.1	28.3	45	12.0	30.0	40.3	50	ED-10
R*O450E4S**	ZS33KAE	21.9	133.0	3.1	31.4	50	12.0	30.0	43.4	60	ED-10
R*O500E4S**	ZS38K4E	28.5	169.0	3.1	39.7	60	12.0	30.0	51.7	60	ED-10

208-230V/1/60 Hz[▲]

R*O130E4S**	ZS09KAE	9.0	40.3	0.5	15.0	20	4.0	15.0	19.7	25	ED-5
R*O150E4S**	ZS11KAE	11.3	55.0	1.0	16.1	25	6.0	20.0	26.0	30	ED-6
R*O180E4S**	ZS13KAE	10.8	56.0	1.0	15.5	25	6.0	20.0	26.0	30	ED-6
R*O200E4S**	ZS15KAE	14.1	68.0	1.0	19.6	30	10.0	25.0	32.2	40	ED-7
R*O250E4S**	ZS19KAE	16.2	75.0	1.0	22.2	35	10.0	25.0	32.2	45	ED-7
R*O300E4S**	ZS21KAE	20.8	112.0	3.1	30.1	50	12.0	30.0	42.1	60	ED-10
R*O350E4S**	ZS26KAE	21.2	104.0	3.1	30.6	50	12.0	30.0	42.6	60	ED-10
R*O400E4S**	ZS29KAE	23.4	137.0	3.1	33.3	50	12.0	30.0	45.3	60	ED-10
R*O450E4S**	ZS33KAE	23.0	146.0	3.1	32.8	50	12.0	30.0	44.8	60	ED-10
R*O500E4S**	ZS38K4E	28.5	169.0	3.1	39.7	60	12.0	30.0	51.7	60	ED-10

208-230V/1/60 Hz, 200-220V/1/50 Hz[▲]

R*O200L4S**	ZF06K4E	12.2	61.0	1.0	-	-	6.0	20.0	26.0	35	ED-6
R*O250L4S**	ZF08K4E	14.7	73.0	1.0	-	-	10.0	25.0	32.0	45	ED-7
R*O300L4S**	ZF09K4E	16.0	88.0	1.0	-	-	10.0	25.0	32.0	45	ED-7
R*O350L4S**	ZF11K4E	18.6	109.0	1.0	-	-	10.0	30.0	38.5	50	ED-10
R*O400L4S**	ZF13K4E	22.4	129.0	3.1	-	-	12.0	30.0	44.0	60	ED-10
R*O500L4S**	ZF15K4E	24.7	169.0	3.1	-	-	12.0	30.0	46.0	60	ED-10

208-230V/3/60 Hz, 200-220V/3/50 Hz

R*O130E4S**	ZS09KAE	7.2	55.4	0.5	15.0	15	4.0	15.0	19.7	20	ED-5
R*O150E4S**	ZS11KAE	9.3	58.0	1.0	15.0	20	6.0	15.0	19.7	25	ED-5
R*O180E4S**	ZS13KAE	8.7	58.0	1.0	15.0	20	6.0	15.0	19.7	25	ED-5
R*O200E4S**	ZS15KAE	9.6	58.0	1.0	15.0	20	10.0	20.0	26.0	30	ED-6
R*O250E4S**	ZS19KAE	12.3	73.0	1.0	17.3	25	10.0	25.0	32.2	35	ED-7
R*O300E4S**	ZS21KAE	13.7	93.0	3.1	21.2	30	12.0	25.0	33.2	45	ED-7
R*O350E4S**	ZS26KAE	13.9	93.0	3.1	21.4	35	12.0	25.0	33.4	45	ED-7
R*O400E4S**	ZS29KAE	18.4	114.0	3.1	27.1	45	12.0	30.0	39.1	50	ED-11
R*O450E4S**	ZS33KAE	20.0	114.0	3.1	29.1	45	12.0	30.0	41.1	60	ED-11
R*O500E4S**	ZS38K4E	19.2	123.0	3.1	28.1	45	12.0	30.0	40.1	50	ED-11
R*O600E4S**	ZS45K4E	21.5	156.0	3.1	30.9	50	12.0	30.0	42.9	60	ED-11
R*O200L4S**	ZF06K4E	8.3	55.0	1.0	-	-	6.0	15.0	19.7	25	ED-5
R*O250L4S**	ZF08K4E	8.7	63.0	1.0	-	-	10.0	20.0	26.0	30	ED-6
R*O300L4S**	ZF09K4E	8.7	77.0	1.0	-	-	10.0	20.0	26.0	30	ED-6
R*O350L4S**	ZF11K4E	10.9	88.0	1.0	-	-	10.0	25.0	32.2	35	ED-7
R*O400L4S**	ZF13K4E	11.9	99.0	3.1	-	-	12.0	25.0	32.2	40	ED-7
R*O500L4S**	ZF15K4E	17.0	123.0	3.1	-	-	12.0	30.0	38.5	50	ED-11
R*O600L4S**	ZF18K4E	19.6	156.0	3.1	-	-	12.0	30.0	40.6	60	ED-11

See notes listed under Scroll 460V/3/60 Hz electrical table on next page.

NEXT-GEN MINICON CONDENSING UNITS

Electrical Data - Scroll

BASE MODEL NUMBER	COMP. MODEL	COMPRESSOR		COND. FAN FLA	AIR DEFROST		MAX. EVAP. FAN AMPS [†]	MAX DEFROST AMPS [†]	ELECTRIC DEFROST		ELECTRIC DEFROST KIT [†]
		RLA	LRA		MCA	MOPD			MCA	MOPD	
460V/3/60 Hz, 380V/3/50 Hz											
R*O130E4S**	ZS09KAE	3.4	28.0	0.4	15.0	15	2.0	15.0	19.7	20	ED-17
R*O150E4S**	ZS11KAE	3.8	28.0	0.8	15.0	15	3.0	15.0	19.7	20	ED-17
R*O180E4S**	ZS13KAE	4.3	29.0	0.8	15.0	15	3.0	15.0	19.7	20	ED-17
R*O200E4S**	ZS15KAE	4.8	29.0	0.8	15.0	15	5.0	15.0	19.7	20	ED-17
R*O250E4S**	ZS19KAE	5.8	38.0	0.8	15.0	15	5.0	15.0	19.7	20	ED-17
R*O300E4S**	ZS21KAE	6.2	48.0	2.5	15.0	15	6.0	15.0	19.7	20	ED-17
R*O350E4S**	ZS26KAE	6.2	48.0	2.5	15.0	15	6.0	15.0	19.7	20	ED-17
R*O400E4S**	ZS29KAE	8.4	58.0	2.5	15.0	20	6.0	15.0	20.0	25	ED-17
R*O450E4S**	ZS33KAE	9.0	52.0	2.5	15.0	20	6.0	20.0	26.0	30	ED-18
R*O500E4S**	ZS38K4E	8.7	62.0	2.5	15.0	20	6.0	20.0	26.0	30	ED-18
R*O600E4S**	ZS45K4E	10.3	75.0	2.5	16.3	25	6.0	20.0	26.0	30	ED-18
R*O200L4S**	ZF06K4E	3.8	27.0	0.8	—	—	3.0	15.0	19.7	20	ED-17
R*O250L4S**	ZF08K4E	4.5	31.0	0.8	—	—	5.0	15.0	19.7	20	ED-17
R*O300L4S**	ZF09K4E	4.5	39.0	0.8	—	—	5.0	15.0	19.7	20	ED-17
R*O350L4S**	ZF11K4E	5.8	44.0	0.8	—	—	5.0	15.0	19.7	20	ED-17
R*O400L4S**	ZF13K4E	6.4	49.5	2.5	—	—	6.0	15.0	19.7	20	ED-17
R*O500L4S**	ZF15K4E	8.0	62.0	2.5	—	—	6.0	15.0	19.7	25	ED-17
R*O600L4S**	ZF18K4E	8.0	75.0	2.5	—	—	6.0	15.0	19.7	25	ED-17

* Each asterisk represents a variable character based upon model, voltage, and vintage ordered. See page 4 for nomenclature.

RLA = Rated Load Amps LRA = Locked Rotor Amps MCA = Minimum Circuit Ampacity MOPD = Maximum Overcurrent Protection
MCA includes 1 amp allowance for control circuit requirement.

† Note: Maximum Evap. fan amps and maximum defrost amps are shown to provide ratings when electric defrost is required and is an optional feature. Maximum Amp value used to determine MOPD. Exceeding these values invalidates the listed MOPD and requires a revised calculation. Contact Application Engineering when amp draw requirements deviate from the chart values.

^ R*O600L4S and R*O600E4S are not available in 200-220V/1/50 Hz or 208-230V/1/60 Hz.



Next-Gen MiniCon condensing units are very adaptable and have ample room within the cabinet and control panel for many optional components

1/2 TO 6 HP

Specifications - All Models

MODEL DATA			CONNECTIONS (IN.)		PUMP DOWN CAPACITY							
MODEL NUMBER	COMP. MODEL	HP	LIQUID	SUCTION	STANDARD RECEIVER^				OVERSIZED RECEIVER^			
					90% R404A (LBS.)	90% R407A (LBS.)	90% R407C (LBS.)	90% R448/449A (LBS.)	90% R404A (LBS.)	90% R407A (LBS.)	90% R407C (LBS.)	90% R448/449A (LBS.)

Extended Medium Temperature Hermetic

R*H055E44**	RST45C1E	1/2	3/8	5/8	5.9	—	—	—	11.0	—	12.7	11.6
R*H080E44**	RST55C1E	3/4	3/8	5/8	5.9	—	—	—	11.0	—	12.7	11.6
R*H090E44**	RST64C1E	3/4	3/8	5/8	5.9	—	—	—	11.0	—	12.7	11.6
R*H100E44**	RST70C1E	1	3/8	5/8	5.9	—	—	—	11.0	—	12.7	11.6
R*H125E44**	RST97C1E	1-1/4	1/2	7/8	11.0	—	—	—	13.6	—	15.7	14.3
R*H150E44**	CS10K6E	1-1/2	1/2	7/8	11.0	—	—	—	13.6	—	—	14.3
R*H200E44**	CS12K6E	2	1/2	7/8	11.0	—	—	—	13.6	—	—	14.3
R*H250E44**	CS14K6E	2-1/2	1/2	7/8	13.6	—	—	—	20.9	—	—	22.0
R*H300E44**	CS18K6E	3	1/2	7/8	13.6	—	—	—	20.9	—	—	22.0
R*H325E44**	CS20K6E	3	5/8	1-1/8	28.0	—	—	—	37.9	—	—	39.8

Low Temperature Hermetic

R*H100L44**	CF04K6E	1	3/8	5/8	5.9	—	—	—	11.0	—	—	—
R*H150L44**	CF06K6E	1-1/2	3/8	5/8	5.9	—	—	—	11.0	—	—	—
R*H200L44**	CF09K6E	2	3/8	7/8	11.0	—	—	—	13.6	—	—	—
R*H300L44**	CF12K6E	3	3/8	7/8	13.6	—	—	—	20.9	—	—	—

Extended Medium Temperature Scroll

R*O130E4S**	ZS09KAE	1	3/8	5/8	5.9	6.4	6.7	6.1	11.0	12.1	12.7	11.6
R*O150E4S**	ZS11KAE	1-1/4	1/2	7/8	11.0	12.1	12.7	11.6	13.6	15.0	15.7	14.3
R*O180E4S**	ZS13KAE	1-1/2	1/2	7/8	11.0	12.1	12.7	11.6	13.6	15.0	15.7	14.3
R*O200E4S**	ZS15KAE	2	1/2	7/8	13.6	15.0	15.7	14.3	20.9	23.1	24.1	22.0
R*O250E4S**	ZS19KAE	2-1/2	1/2	7/8	13.6	15.0	15.7	14.3	20.9	23.1	24.1	22.0
R*O300E4S**	ZS21KAE	3	5/8	1-1/8	28.0	30.9	32.3	29.4	37.9	41.8	43.7	39.8
R*O350E4S**	ZS26KAE	3-1/2	5/8	1-1/8	28.0	30.9	32.3	29.4	37.9	41.8	43.7	39.8
R*O400E4S**	ZS29KAE	4	5/8	1-1/8	28.0	30.9	32.3	29.4	37.9	41.8	43.7	39.8
R*O450E4S**	ZS33KAE	4-1/2	5/8	1-1/8	28.0	30.9	32.3	29.4	37.9	41.8	43.7	39.8
R*O500E4S**	ZS38K4E	5	5/8	1-1/8	28.0	30.9	32.3	29.4	37.9	41.8	43.7	39.8
R*O600E4S**	ZS45K4E	6	5/8	1-1/8	28.0	30.9	32.3	29.4	37.9	41.8	43.7	39.8

Low Temperature Scroll

R*O200L4S**	ZF06K4E	2	3/8	7/8	11.0	12.1	12.7	11.6	13.6	15.0	15.7	14.3
R*O250L4S**	ZF08K4E	2-1/2	3/8	7/8	13.6	15.0	15.7	14.3	20.9	23.1	24.1	22.0
R*O300L4S**	ZF09K4E	3	3/8	7/8	13.6	15.0	15.7	14.3	20.9	23.1	24.1	22.0
R*O350L4S**	ZF11K4E	3-1/2	3/8	7/8	13.6	15.0	15.7	14.3	20.9	23.1	24.1	22.0
R*O400L4S**	ZF13K4E	4	1/2	1-1/8	28.0	30.9	32.3	29.4	37.9	41.8	43.7	39.8
R*O500L4S**	ZF15K4E	5	1/2	1-1/8	28.0	30.9	32.3	29.4	37.9	41.8	43.7	39.8
R*O600L4S**	ZF18K4E	6	1/2	1-1/8	28.0	30.9	32.3	29.4	37.9	41.8	43.7	39.8

* Each asterisk represents a variable character based upon model, voltage, and vintage ordered. See page 4 for nomenclature.

^ Sierra models (RVH/RVO) are critical charge units. They do not require additional refrigerant for winter charge and have no auxiliary receiver tank. Restrict the liquid line run to a maximum of 50 linear feet. Liquid line solenoid must be mounted at the case or evaporator.

NEXT-GEN MINICON CONDENSING UNITS

Specifications - All Models

MODEL DATA		CABINET SIZE††	FAN QTY.	DIMENSIONS (IN.)			APPROX. SHIP WT. (LBS.)	SOUND DATA dBA†
MODEL NUMBER	COMP. MODEL			D	W	H		
R*H055E44**	RST45C1E	FM1	1	28-1/4	27-7/8	18-3/4	152	68
R*H080E44**	RST55C1E	FM1	1	28-1/4	27-7/8	18-3/4	156	68
R*H090E44**	RST64C1E	FM1	1	28-1/4	27-7/8	18-3/4	160	68
R*H100E44**	RST70C1E	FM1	1	28-1/4	27-7/8	18-3/4	167	68
R*H125E44**	RST97C1E	FM2	2	28-1/4	39-7/8	18-3/4	195	72
R*H150E44**	CS10K6E	FM2	2	28-1/4	39-7/8	18-3/4	205	72
R*H200E44**	CS12K6E	FM2	2	28-1/4	39-7/8	18-3/4	228	72
R*H250E44**	CS14K6E	FM3	2	28-1/4	39-7/8	21-1/4	235	72
R*H300E44**	CS18K6E	FM3	2	28-1/4	39-7/8	21-1/4	253	73
R*H325E44**	CS20K6E	FM4	1	33	43-7/8	35	273	73

Extended Medium Temperature Hermetic

R*H055E44**	RST45C1E	FM1	1	28-1/4	27-7/8	18-3/4	152	68
R*H080E44**	RST55C1E	FM1	1	28-1/4	27-7/8	18-3/4	156	68
R*H090E44**	RST64C1E	FM1	1	28-1/4	27-7/8	18-3/4	160	68
R*H100E44**	RST70C1E	FM1	1	28-1/4	27-7/8	18-3/4	167	68
R*H125E44**	RST97C1E	FM2	2	28-1/4	39-7/8	18-3/4	195	72
R*H150E44**	CS10K6E	FM2	2	28-1/4	39-7/8	18-3/4	205	72
R*H200E44**	CS12K6E	FM2	2	28-1/4	39-7/8	18-3/4	228	72
R*H250E44**	CS14K6E	FM3	2	28-1/4	39-7/8	21-1/4	235	72
R*H300E44**	CS18K6E	FM3	2	28-1/4	39-7/8	21-1/4	253	73
R*H325E44**	CS20K6E	FM4	1	33	43-7/8	35	273	73



Low Temperature Hermetic

R*H100L44**	CF04K6E	FM1	1	28-1/4	27-7/8	18-3/4	195	74
R*H150L44**	CF06K6E	FM1	1	28-1/4	27-7/8	18-3/4	195	74
R*H200L44**	CF09K6E	FM2	2	28-1/4	39-7/8	18-3/4	243	75
R*H300L44**	CF12K6E	FM3	2	28-1/4	39-7/8	21-1/4	255	77



Extended Medium Temperature Scroll

R*O130E4S**	ZS09KAE	FM1	1	28-1/4	27-7/8	18-3/4	195	70
R*O150E4S**	ZS11KAE	FM2	2	28-1/4	39-7/8	18-3/4	205	71
R*O180E4S**	ZS13KAE	FM2	2	28-1/4	39-7/8	18-3/4	210	71
R*O200E4S**	ZS15KAE	FM3	2	28-1/4	39-7/8	21-1/4	215	71
R*O250E4S**	ZS19KAE	FM3	2	28-1/4	39-7/8	21-1/4	230	72
R*O300E4S**	ZS21KAE	FM4	1	33	43-7/8	35	305	72
R*O350E4S**	ZS26KAE	FM4	1	33	43-7/8	35	325	72
R*O400E4S**	ZS29KAE	FM4	1	33	43-7/8	35	352	74
R*O450E4S**	ZS33KAE	FM4	1	33	43-7/8	35	375	74
R*O500E4S**	ZS38K4E	FM4	1	33	43-7/8	35	383	74
R*O600E4S**	ZS45K4E	FM4	1	33	43-7/8	35	405	76



Low Temperature Scroll

R*O200L4S**	ZF06K4E	FM2	2	28-1/4	39-7/8	21-1/4	230	71
R*O250L4S**	ZF08K4E	FM3	2	28-1/4	39-7/8	21-1/4	240	73
R*O300L4S**	ZF09K4E	FM3	2	28-1/4	39-7/8	21-1/4	245	73
R*O350L4S**	ZF11K4E	FM3	2	28-1/4	39-7/8	21-1/4	255	73
R*O400L4S**	ZF13K4E	FM4	1	33	43-7/8	35	352	73
R*O500L4S**	ZF15K4E	FM4	1	33	43-7/8	35	367	74
R*O600L4S**	ZF18K4E	FM4	1	33	43-7/8	35	383	76



* Each asterisk represents a variable character based upon model, voltage, and vintage ordered. See page 4 for nomenclature.

† 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.

†† See pages 22-23 for associated drawings.

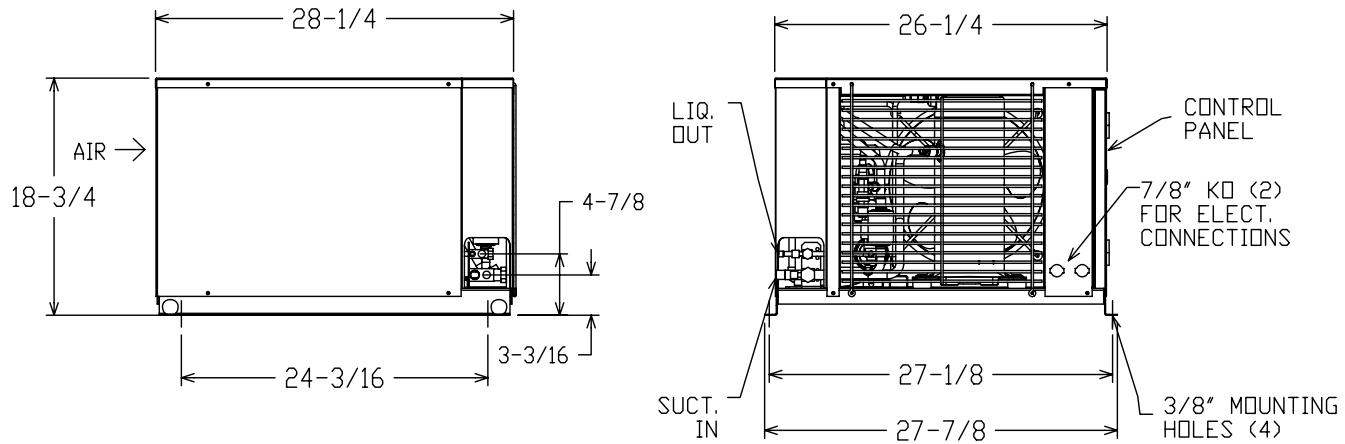


APPLICATIONS

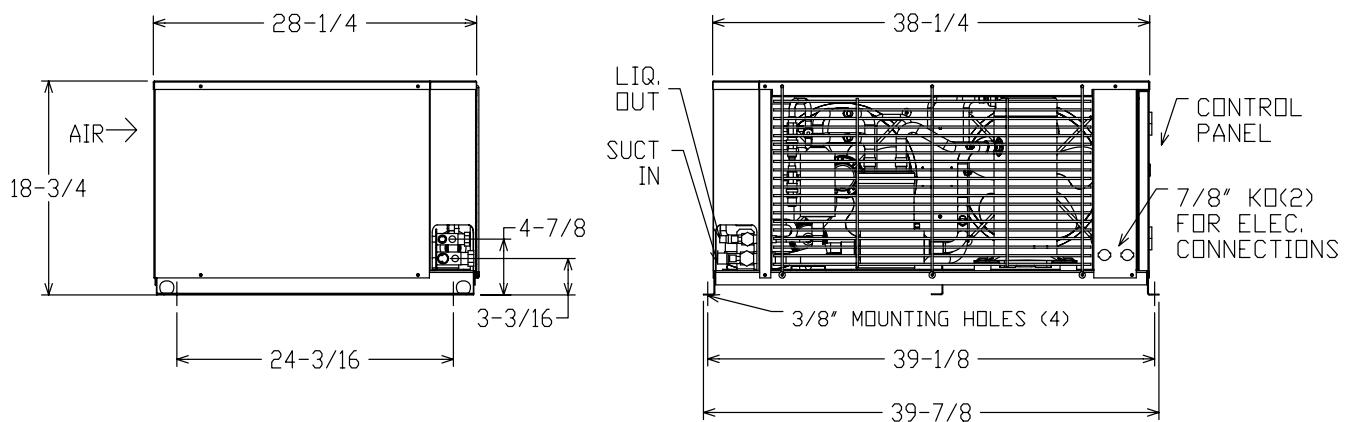
1/2 TO 6 HP

Physical Dimensions - All Models

FM1



FM2

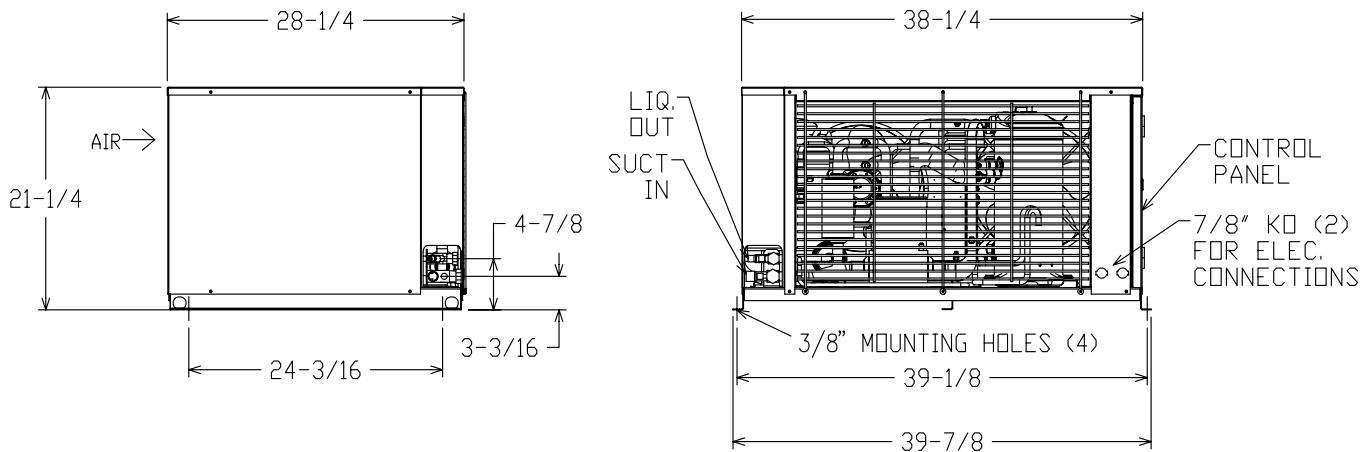


* Dimensions are in inches.

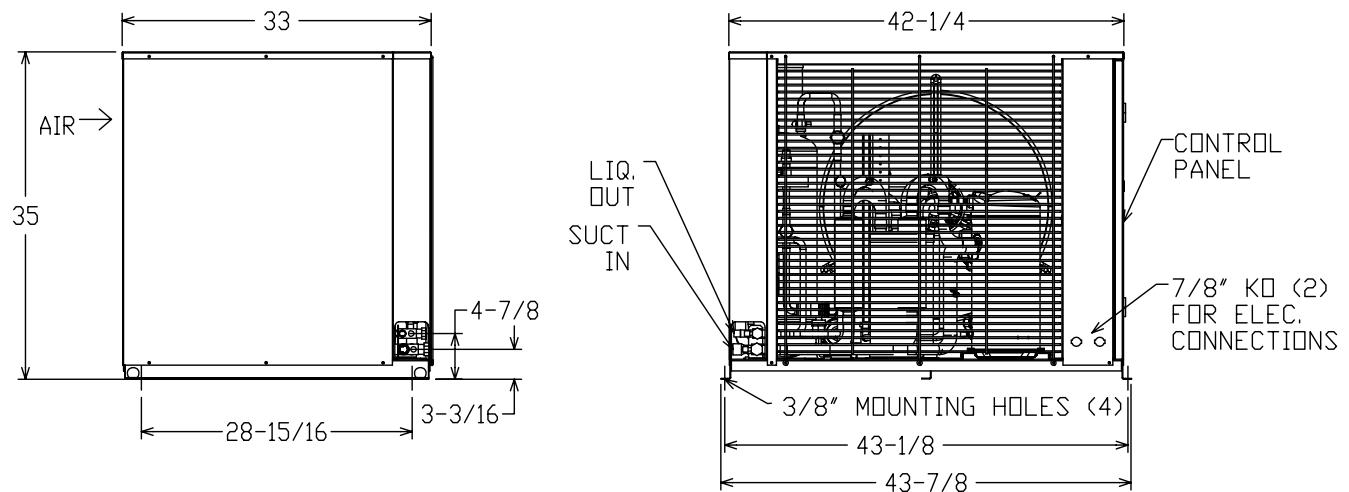
NEXT-GEN MINICON CONDENSING UNITS

Physical Dimensions - All Models

FM3



FM4



* Dimensions are in inches.

1/2 TO 6 HP

NEXT-GEN MINICON

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



Russell

201 Thomas French Drive, Scottsboro, AL 35769 PHONE (256) 259-7400 FAX (256) 259-7478 russell.htpgusa.com
E-mail or call us for help: parts@htpgusa.com or (800) 288-9488



Publication No. RU-XNT-1212A

Apex System

APEX TOP MOUNT REFRIGERATION SYSTEM



indoor unit



outdoor unit

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

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



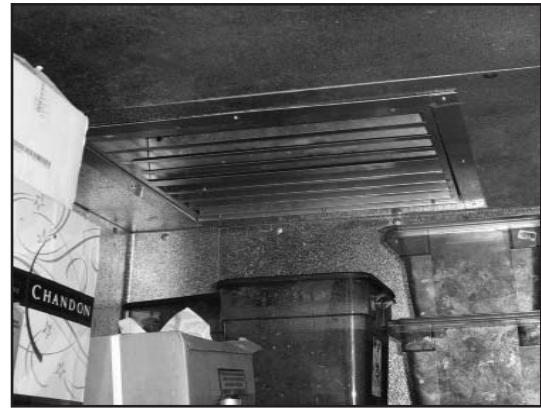
APEX TOP MOUNT REFRIGERATION SYSTEM



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

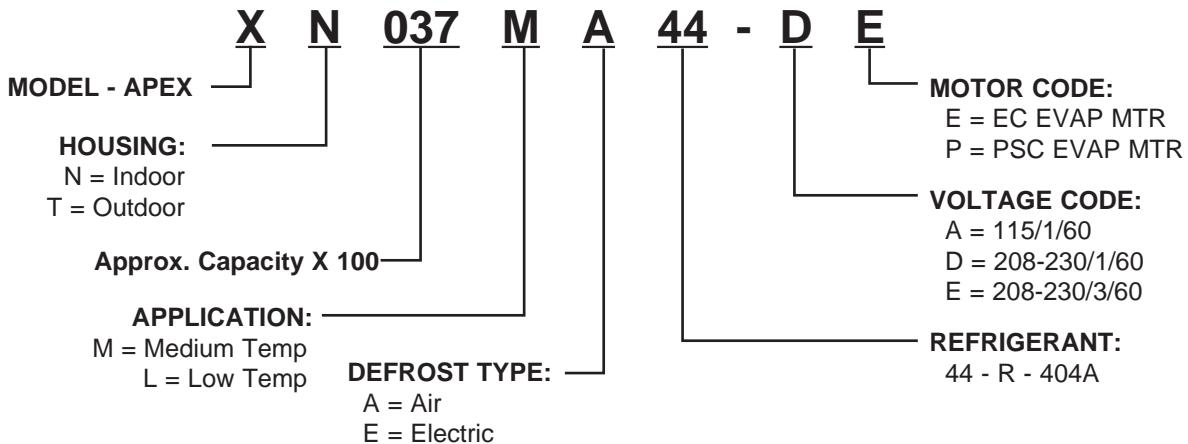


Inside view of an installed walk-in cooler.

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](#).

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.

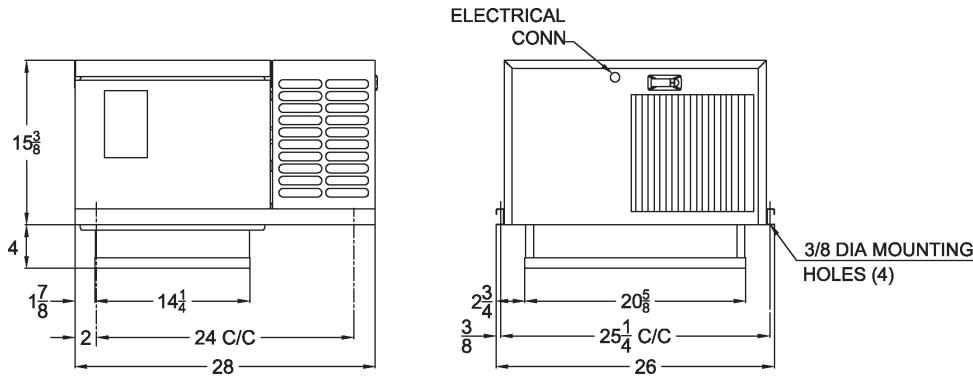
† - All 230 volt units can be used as 208 volt.

Unit amps are for standard models with electronically commutated evap motors and permanent split capacitor condenser motors.

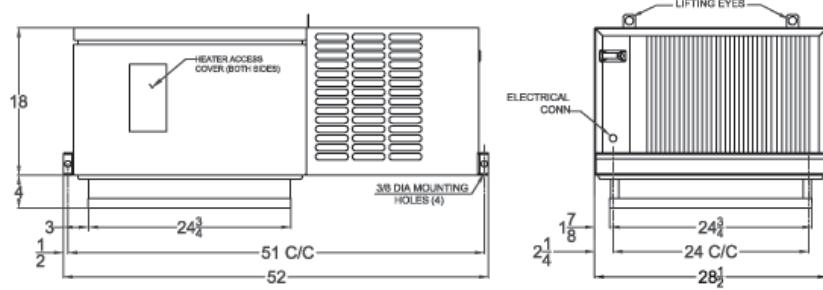
APEX TOP MOUNT REFRIGERATION SYSTEM

Dimensional Drawings

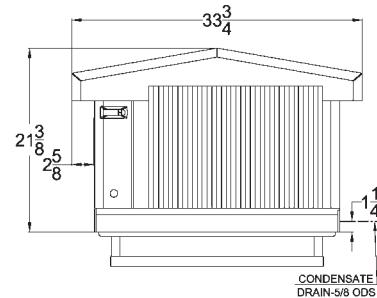
Small Cabinet Size – Indoor



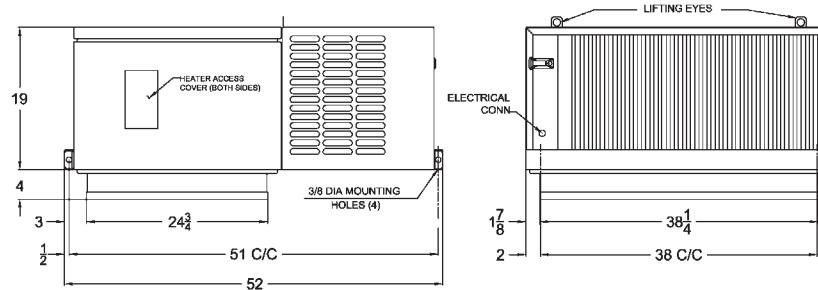
Medium Cabinet Size – Indoor



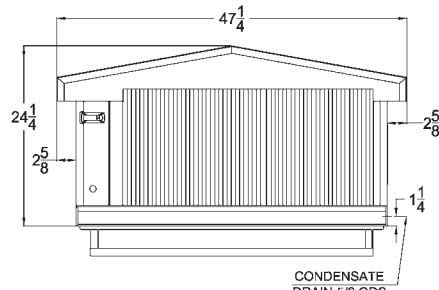
Medium – Outdoor



Large Cabinet Size – Indoor



Large – Outdoor



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



Russell

Publication No. RU-AAX-0516A

All-Temp

LOW PROFILE UNIT COOLER

Small to Medium Walk-Ins
Coolers and Freezer Applications



Air Defrost
3,900 to 39,000 BTUH

Electric Defrost
3,600 to 28,000 BTUH

Hot Gas Defrost
3,600 to 28,000 BTUH



ALL-TEMP

Features

The Russell All-Temps are the original low profile unit coolers that established the industry standard as being the all-purpose design for walk-in coolers, freezers and other applications. The units feature an air draw-through design, easy access for serviceability, and are available in air, electric and hot gas defrost models.

SIZES

There are a wide array of sizes available with capacities ranging from 3,600 to 39,000 BTUH at a 10°TD spanning from 740 to 4,980 cfm. One through six fan models are available.

HOUSING

The embossed Aluminum casing is lightweight yet durable. Each fan section is baffled to prevent short cycling of the air. The unit is designed to mount flush to the ceiling and meets all NSF requirements. The top pan is slotted for simple installation. Drain fittings are installed in the bottom of the drain pan for easy field connection and the drain fitting can be quickly replaced without replacing the entire drain pan. The end panels can now be slid out from the front of the unit for easy serviceability from the front or end of the unit.

COIL

Copper hairpins are staggered and mechanically expanded into corrugated Aluminum fins and tube sheets to achieve maximum heat transfer. Die formed fin collars provide even fin spacing and are available in 4, 6 and 8 fins per inch. Sweat connections are standard on all models.

MOTORS

High efficiency single-speed and dual-speed Electronically Commutated (EC) motors are available in 115V and 208/230V. The dual-speed EC motors are compliant with California Title 24 regulations. Single-speed PSC motors are available in 115V, 208/230V and 460V. All motors include thermal overload protection.

CONFIGURATIONS

Units are available as Configurable (no mounted accessories) or Pre-assembled with the most requested options installed for your convenience.

Pre-assembly Code¹:

- Blank = Configurable
- T = Factory mounted TXV
- L = Factory mounted TXV, Liq. Line Solenoid (LLS) and Mechanical T-Stat
- M = Master Configuration with mounted TXV, T-Stat, LLS and copper Tee

FANS

Heavy duty 12" Aluminum fans are balanced to provide vibration-free operation. Our low throw black plastic fan guards provide an optimal air pattern. The optional epoxy resin high throw fan guard moves air up to 25 feet.

ELECTRICAL

Available in 115V, 208/230V and 460V (see pages 4 and 5). All components are factory wired to convenient screw-type terminal strips. A large compartment is supplied internal to the unit for all electrical components and is easily accessible by opening the slide out end panel. All models are UL and cUL listed and are available in 60 or 50 Hz.

AIR DEFROST

Air Defrost models (prefix "AA") are designed for use in coolers of 35°F and warmer. Complete air defrost systems for off-cycle or timed air defrost are available.

ELECTRIC DEFROST

Electric Defrost models (prefix "AE") are designed for use in coolers and freezers between 34°F to -20°F. Internal coil heaters provide rapid and efficient defrost. A lower heater is installed close to the drain pan for fast, reliable drainage. A defrost termination fan delay thermostat (DTFD) terminates the defrost cycle when the temperature is satisfied. The fan delay allows the warm coil to cool after a defrost cycle prior to the fans turning on. A heater safety thermostat is installed to prevent heaters from overheating above 75°F. Complete electric defrost refrigeration systems are available from Russell.

HOT GAS DEFROST

There are two types of Hot Gas Defrost models available: Hot Gas 3 Pipe (prefix "AH") and Hot Gas Reverse Cycle 2 Pipe (prefix "AG"). Hot Gas Defrost models are designed for use in coolers and freezers between 30°F to -20°F. All models include a fixed DTFD factory wired and a hot gas drain pan circuit to defrost the drain pan. On all Hot Gas models, the drain fitting is located on the left-hand rear of the unit when facing the fan guards. Complete Hot gas defrost refrigeration systems are available from Russell.

Optional Features

- Coated Aluminum fins (Russproof, ElectroFin², or Heresite²) or Copper fins
- Coated housing (same options as above)
- Epoxy resin high throw guards for up to 25 ft.
- Adjustable termination/ fan delay control*
- Insulated drain pan*

* These options require the units to be built as Revision B models.

1. Codes T, L and M are intended for units in finished goods inventory only. Call out separate options for units built with normal lead times.
2. ElectroFin and Heresite coatings are not NSF approved. NSF approval label will be removed from unit if ordered with these coatings.

LOW PROFILE UNIT COOLER

Electronically commutated motors bring energy efficiency to the refrigeration Unit Cooler market . Features of the EC motors we offer include:

- Integrated control with sealed construction
- Locked rotor with overload fold-back protection
- Durable ball bearing construction for long commercial life
- Unique hall sensor design prevents synching or resonance
- Threaded shaft uses hubless fan blade
- Available in single or dual speed configurations

Energy Savings by Switching from PSC to Efficient EC Motor

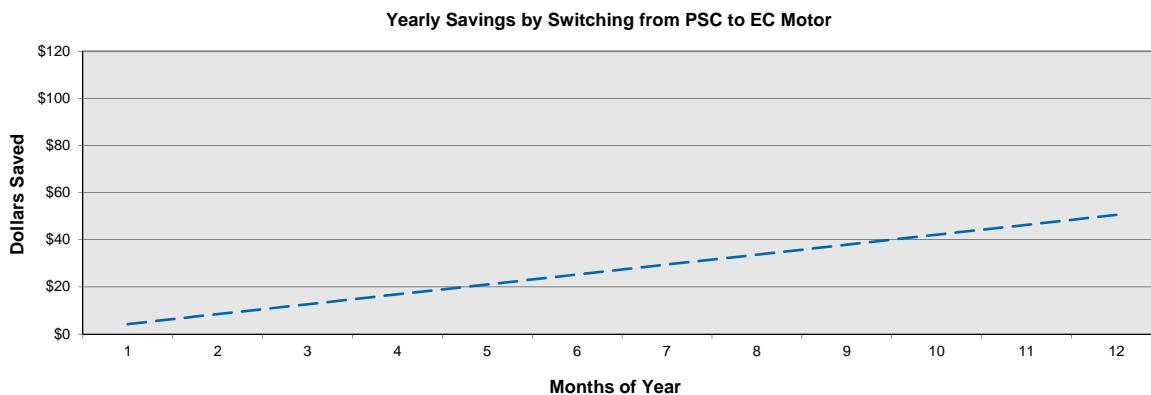
Chart is based on Energy Cost of \$0.10 per kWh.

Motor Change	Std Motor Power Watts/Mtr	Change to Motor Power Watts/Mtr	Reduced Power Watts/Mtr	Run Time Hrs/Day	Motor Energy Savings kWh/Yr	Motor Energy Savings \$/Yr	Reduced Box Load MBTU/Yr	Cond. Unit Energy Savings \$/Yr	Yearly Saving \$ Per MTR	Pay back in Yrs
PSC to EC	85	47	38	22	305	31	1041	20	51	2.0

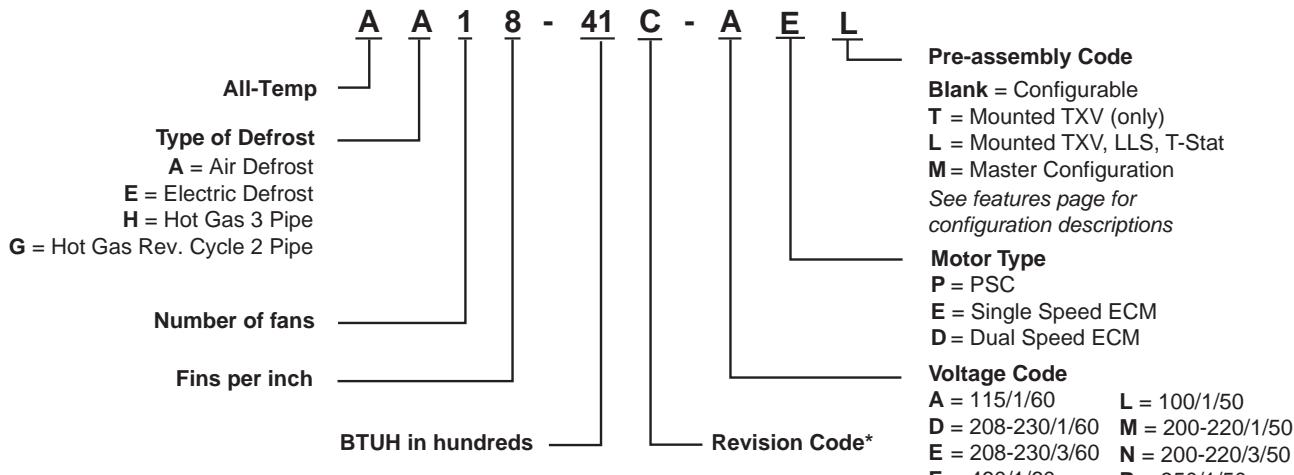
Subtract 6% from total savings for medium temperature air defrost units that run 24 hours per day.

PSC = 1/20 HP PSC motor

EC = 50 Watt Electronically Commutated motor



MODEL NUMBER NOMENCLATURE



* Hot Gas Defrost models (AG, AH) are not available in Revision Code "C" configuration and must be designated as Revision Code "B".

ALL-TEMP

Performance and Electrical Data - Air Defrost Models

	Model Number	BTUH* Capacity @ 25°F S.T.		CFM	Total Fan Motor AMPS - 1 Phase				
					Single and Dual [^] Speed EC Motors†		Single Speed PSC Motors		
		10° TD	12° TD		115V	208-230V	115V	208-230V	460V
8 FPI	AA18-41C	4,100	4,900	800	0.8	0.5	1.0	0.5	0.4
	AA18-53C	5,300	6,400	770	0.8	0.5	1.0	0.5	0.4
	AA18-66C	6,600	7,900	740	0.8	0.5	1.0	0.5	0.4
	AA28-76C	7,600	9,100	1,460	1.6	1.0	2.0	1.0	0.8
	AA28-97C	9,700	11,600	1,420	1.6	1.0	2.0	1.0	0.8
	AA28-106C	10,600	12,700	1,540	1.6	1.0	2.0	1.0	0.8
	AA28-122C	12,200	14,600	1,380	1.6	1.0	2.0	1.0	0.8
	AA28-134C	13,400	16,100	1,480	1.6	1.0	2.0	1.0	0.8
	AA38-160C	16,000	19,200	2,310	2.4	1.5	3.0	1.5	0.8
	AA38-195C	19,500	23,400	2,220	2.4	1.5	3.0	1.5	1.2
	AA48-212C	21,200	25,400	3,080	3.2	2.0	4.0	2.0	1.6
	AA48-264C	26,400	31,700	2,960	3.2	2.0	4.0	2.0	1.6
6 FPI	AA58-275C	27,500	33,000	3,850	4.0	2.5	5.0	2.5	2.0
	AA68-318C	31,800	38,200	4,620	4.8	3.0	6.0	3.0	2.4
	AA68-390C	39,000	46,800	4,440	4.8	3.0	6.0	3.0	2.4
	AA16-39C	3,900	4,700	830	0.8	0.5	1.0	0.5	0.4
	AA16-48C	4,800	5,800	800	0.8	0.5	1.0	0.5	0.4
	AA16-58C	5,800	7,000	780	0.8	0.5	1.0	0.5	0.4
	AA26-70C	7,000	8,400	1,540	1.6	1.0	2.0	1.0	0.8
	AA26-87C	8,700	10,400	1,500	1.6	1.0	2.0	1.0	0.8
	AA26-115C	11,500	13,800	1,560	1.6	1.0	2.0	1.0	0.8
	AA36-145C	14,500	17,400	2,400	2.4	1.5	3.0	1.5	1.2
	AA36-170C	17,000	20,400	2,340	2.4	1.5	3.0	1.5	1.2
4 FPI	AA46-192C	19,200	23,000	3,200	3.2	2.0	4.0	2.0	1.6
	AA46-230C	23,000	27,600	3,120	3.2	2.0	4.0	2.0	1.6
	AA56-245C	24,500	29,400	4,000	4.0	2.5	5.0	2.5	2.0
	AA66-295C	29,500	35,400	4,800	4.8	3.0	6.0	3.0	2.4
	AA66-345C	34,500	41,400	4,680	4.8	3.0	6.0	3.0	2.4
	AA14-42C	4,200	5,000	830	0.8	0.5	1.0	0.5	0.4
	AA24-84C	8,400	10,100	1,660	1.6	1.0	2.0	1.0	0.8
	AA24-105C	10,500	12,600	1,620	1.6	1.0	2.0	1.0	0.8
	AA34-130C	13,000	15,600	2,490	2.4	1.5	3.0	1.5	1.2
	AA44-170C	17,000	20,400	3,320	3.2	2.0	4.0	2.0	1.6
	AA54-215C	21,500	25,800	4,150	4.0	2.5	5.0	2.5	2.0
	AA64-255C	25,500	30,600	4,980	4.8	3.0	6.0	3.0	2.4

Use EC motors for 50 Hz operation.

* Standard rating based on R404A refrigerant with 100°F liquid temperature. Consult factory for other operating conditions.

† These Electronically Commutated (EC) Motors are not available in 460V or 575V.

^ Dual-speed EC motors are compliant with California Title 24 regulations.

End panels slide out for
easy serviceability from the
front or ends of the unit



LOW PROFILE UNIT COOLER

Performance and Electrical Data - Electric Defrost Models

Model Number	BTUH* Capacity @ 10° T.D. Suction Temperature				CFM	Motor Amps ¹		Heater Amps ²		Heater Watts			
						Single and Dual [†] Speed EC Motors [†]	Single Speed PSC Motors	230V					
	-30°F	-20°F	-10°F	+20°		230V	230V	460V	1 PH				
6 FPI	AE16-36C	3,400	3,600	3,700	3,900	830	0.5	0.5	0.4	4.4	3.8	2.2	1,000
	AE16-41C	3,900	4,100	4,300	4,800	800	0.5	0.5	0.4	4.4	3.8	2.2	1,000
	AE16-46C	4,400	4,600	4,800	5,800	780	0.5	0.5	0.4	4.4	3.8	2.2	1,000
	AE26-60C	5,700	6,000	6,200	7,000	1,540	1.0	1.0	0.8	7.0	6.0	3.5	1,600
	AE26-75C	7,100	7,500	7,800	8,700	1,500	1.0	1.0	0.8	7.0	6.0	3.5	1,600
	AE26-92C	8,700	9,200	9,600	11,500	1,560	1.0	1.0	1.2	8.7	7.5	4.4	2,000
	AE36-120C	11,400	12,000	12,500	14,500	2,400	1.5	1.5	1.2	13.0	11.3	6.4	3,000
	AE36-140C	13,300	14,000	14,600	17,000	2,340	1.5	1.5	1.2	13.0	11.3	6.4	3,000
	AE46-164C	15,000	16,400	17,100	19,200	3,200	2.0	2.0	1.6	17.4	15.1	8.7	4,000
	AE46-185C	17,600	18,500	19,200	23,000	3,120	2.0	2.0	1.6	17.4	15.1	8.7	4,000
4 FPI	AE56-210C	20,000	21,000	21,800	24,500	4,000	2.5	2.5	2.0	21.7	18.8	10.9	5,000
	AE66-245C	23,300	24,500	25,500	29,500	4,800	3.0	3.0	2.4	25.0	21.7	12.5	5,750
	AE66-280C	26,600	28,000	29,100	34,500	4,680	3.0	3.0	2.4	25.0	21.7	12.5	5,750
	AE14-37C	3,500	3,700	3,800	4,200	830	0.5	0.5	0.4	4.4	3.8	2.2	1,000
	AE24-72C	6,800	7,200	7,500	8,400	1,660	1.0	1.0	0.8	8.7	7.5	4.4	2,000
	AE24-85C	8,100	8,500	8,800	10,500	1,620	1.0	1.0	0.8	8.7	7.5	4.4	2,000
AE34-105C	10,000	10,500	10,900	13,000	2,490	1.5	1.5	1.2	13.0	11.3	6.4	3,000	
	AE44-140C	13,300	14,000	14,600	17,000	3,320	2.0	2.0	1.6	17.4	15.1	8.7	4,000
AE54-180C	17,100	18,000	18,700	21,500	4,150	2.5	2.5	2.0	21.7	18.8	10.9	5,000	
	AE64-215C	20,400	21,500	22,400	25,500	4,980	3.0	3.0	2.0	25.0	21.7	12.5	5,750

* Standard rating based on R404A refrigerant with 100°F liquid temperature. Consult factory for other operating conditions.

† These Electronically Commutated (EC) Motors are not available in 460V or 575V.

^ Dual-speed EC motors are compliant with California Title 24 regulations.

1. All fan motors are wired for single phase.

Use EC motors for 50 Hz operation.



Mounts flush to the ceiling to maximize headroom and space

UL certified for use with multiple refrigerants

Single fan through six fan models are available

ALL-TEMP

Performance and Electrical Data - Hot Gas Defrost Models

Model Number		BTUH Capacity @ 10° T.D.				CFM	Fan Motor Amps ¹				Heat Exchange Field Installed		
		Suction Temperature					Single and Dual [^] Speed EC Motors†		Single Speed PSC Motors†				
		-30°F	-20°F	-10°F	+20°		115V	230V	115V	230V	460V		
6 FPI	AG16-36B	AH16-36B	3,400	3,600	3,700	3,900	830	0.8	0.5	1.0	0.5	0.4	HX-25
	AG16-41B	AH16-41B	3,900	4,100	4,300	4,800	800	0.8	0.5	1.0	0.5	0.4	HX-25
	AG16-46B	AH16-46B	4,400	4,600	4,800	5,800	780	0.8	0.5	1.0	0.5	0.4	HX-25
	AG26-60B	AH26-60B	5,700	6,000	6,200	7,000	1,540	1.6	1.0	2.0	1.0	0.8	HX-25
	AG26-75B	AH26-75B	7,100	7,500	7,800	8,700	1,500	1.6	1.0	2.0	1.0	0.8	HX-50
	AG26-92B	AH26-92B	8,700	9,200	9,600	11,500	1,560	1.6	1.0	2.0	1.0	0.8	HX-50
	AG36-120B	AH36-120B	11,400	12,000	12,500	14,500	2,400	2.4	1.5	3.0	1.5	1.2	HX-50
	AG36-140B	AH36-140B	13,300	14,000	14,600	17,000	2,340	2.4	1.5	3.0	1.5	1.2	HX-75
	AG46-164B	AH46-164B	15,000	16,400	17,100	19,200	3,200	3.2	2.0	4.0	2.0	1.6	HX-75
4 FPI	AG46-185B	AH46-185B	17,600	18,500	19,200	23,000	3,120	3.2	2.0	4.0	2.0	1.6	HX-75
	AG56-210B	AH56-210B	20,000	21,000	21,800	24,500	4,000	4.0	2.5	5.0	2.5	2.0	HX-75
	AG66-245B	AH66-245B	23,300	24,500	25,500	29,500	4,800	4.8	3.0	6.0	3.0	2.4	HX-100
	AG66-280B	AH66-280B	26,600	28,000	29,100	34,500	4,680	4.8	3.0	6.0	3.0	2.4	HX-100
	AG14-37B	AH14-37B	3,500	3,700	3,800	4,200	830	0.8	0.5	1.0	0.5	0.4	HX-25
	AG24-72B	AH24-72B	6,800	7,200	7,500	8,400	1,660	1.6	1.0	2.0	1.0	0.8	HX-50
	AG24-85B	AH24-85B	8,100	8,500	8,800	10,500	1,620	1.6	1.0	2.0	1.0	0.8	HX-50
AG34-105B	AH34-105B	10,000	10,500	10,900	13,000	2,490	2.4	1.5	3.0	1.5	1.2	HX-50	
	AG44-140B	AH44-140B	13,300	14,000	14,600	17,000	3,320	3.2	2.0	4.0	2.0	1.6	HX-75
AG54-180B	AH54-180B	17,100	18,000	18,700	21,500	4,150	4.0	2.5	5.0	2.5	2.0	HX-75	
	AG64-215B	AH64-215B	20,400	21,500	22,400	25,500	4,980	4.8	3.0	6.0	3.0	2.4	HX-100

† These Electronically Commutated (EC) Motors are not available in 460V or 575V.

^ Dual-speed EC motors are compliant with California Title 24 regulations.

1. All fan motors are wired for single phase.

Hot Gas reverse cycle includes a fixed defrost termination control and a fixed fan delay control (factory wired) and a check valve between the hot gas drain pan circuit and the coil.

Use EC motors for 50 Hz operation.



LOW PROFILE UNIT COOLER

Physical Data

MODELS		TXV* TYPE	REFRIGERANT CONNECTIONS				NO. OF HANGERS	DIMENSIONS (Inches)				APPROX. SHIP WT. (LBS)
			All LIQUID†	AA SUCTION	AE/AG/AH SUCTION	HG		A	B	C	W	
18-41C	—	EXT	1/2 ODS	5/8 ODS	—	—	2	19	—	—	27	33
18-53C	—	EXT	1/2	5/8	—	—	2	19	—	—	27	34
18-66C	—	EXT	1/2	5/8	—	—	2	19	—	—	27	36
28-76C	—	EXT	1/2	5/8	—	—	2	33	—	—	41	48
28-97C	—	EXT	1/2	7/8	—	—	2	33	—	—	41	51
28-106C	—	EXT	1/2	7/8	—	—	2	37	—	—	45	58
28-122C	—	EXT	1/2	7/8	—	—	2	33	—	—	41	60
28-134C	—	EXT	1/2	7/8	—	—	2	37	—	—	45	63
38-160C	—	EXT	1/2	1-1/8	—	—	2	55	—	—	63	79
38-195C	—	EXT	1/2	1-1/8	—	—	2	55	—	—	63	84
48-212C	—	EXT	1/2	1-1/8	—	—	3	36-1/2	36-1/2	—	81	127
48-264C	—	EXT	1/2	1-1/8	—	—	3	36-1/2	36-1/2	—	81	151
58-275C	—	EXT	1/2	1-1/8	—	—	3	54-1/2	36-1/2	—	99	197
68-318C	—	EXT	1/2	1-1/8	—	—	4	37	36	36	117	243
68-390C	—	EXT	1/2	1-1/8	—	—	4	37	36	36	117	267
16-39C	16-36C^	EXT	1/2 ODS	5/8 ODS	5/8 ODS	5/8 ODS	2	19	—	—	27	41
16-48C	16-41C^	EXT	1/2	5/8	5/8	5/8	2	19	—	—	27	44
16-58C	16-46C^	EXT	1/2	5/8	5/8	5/8	2	19	—	—	27	47
26-70C	26-60C^	EXT	1/2	5/8	7/8	5/8	2	33	—	—	41	54
26-87C	26-75C^	EXT	1/2	7/8	7/8	5/8	2	33	—	—	41	55
26-115C	26-92C^	EXT	1/2	7/8	7/8	5/8	2	37	—	—	45	62
36-145C	36-120C^	EXT	1/2	7/8	7/8	5/8	2	55	—	—	63	78
36-170C	36-140C^	EXT	1/2	1-1/8	1-1/8	5/8	2	55	—	—	63	85
46-192C	46-164C^	EXT	1/2	1-1/8	1-1/8	5/8	3	36-1/2	36-1/2	—	81	124
46-230C	46-185C^	EXT	1/2	1-1/8	1-1/8	5/8	3	36-1/2	36-1/2	—	81	147
56-245C	56-210C^	EXT	1/2	1-1/8	1-1/8	5/8	3	54-1/2	36-1/2	—	99	195
66-295C	66-245C^	EXT	1/2	1-1/8	1-1/8	5/8	4	37	36	36	117	238
66-345C	66-280C^	EXT	1/2	1-1/8	1-1/8	5/8	4	37	36	36	117	262
14-42C	14-37C^	EXT	1/2 ODS	5/8 ODS	5/8 ODS	5/8 ODS	2	19	—	—	27	42
24-84C	24-72C^	EXT	1/2	7/8	7/8	5/8	2	37	—	—	45	49
24-105C	24-85C^	EXT	1/2	7/8	7/8	5/8	2	37	—	—	45	55
34-130C	34-105C^	EXT	1/2	7/8	7/8	5/8	2	55	—	—	63	79
44-170C	44-140C^	EXT	1/2	7/8	1-1/8	5/8	3	36-1/2	36-1/2	—	81	144
54-215C	54-180C^	EXT	1/2	1-1/8	1-1/8	5/8	3	54-1/2	36-1/2	—	99	191
64-255C	64-215C^	EXT	1/2	1-1/8	1-1/8	5/8	4	37	36	36	117	257

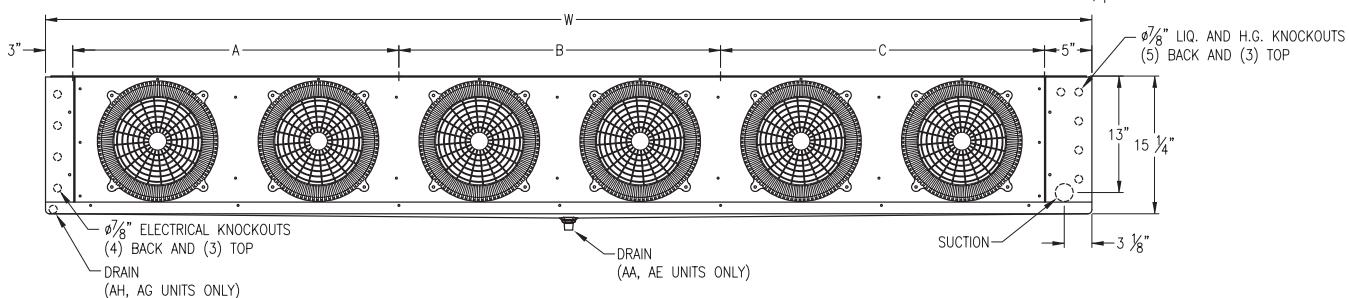
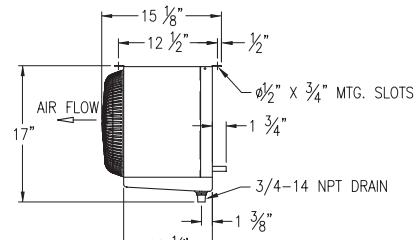
* Hot Gas Defrost models (AG, AH) are not available in Revision Code "C" configuration and must be designated as Revision Code "B".

† Sweat connection at the distributor. Mounted TXV outlet size may vary. All factory mounted Liquid Line Solenoids have 3/8" outlets.

* External equalized.

Installation Notes:

- (1) Install 12" away from back wall.
- (2) Drain connection on AA and AE units are centered on drain pan; and on the left rear corner (facing air discharge) on AG and AH models.
- (3) For long air throw requirements, specify high throw fan guard.
- (4) Unit height at drain end of hot gas models is as follows: 1, 2, and 3 fan models = 15-7/8"; 4, 5, and 6 fan models = 16-1/4".



ALL-TEMP

Electric Defrost Kits

MODEL NUMBER	1 UNIT COOLER PER SYSTEM		2 UNIT COOLERS PER SYSTEM		3 UNIT COOLERS PER SYSTEM	
	230V	460V	230V	460V	230V	460V
AE16-36C	ED-5	ED-17	ED-20*	ED-22	ED-30	ED-32
AE16-41C	ED-5	ED-17	ED-20*	ED-22	ED-30	ED-32
AE16-46C	ED-5	ED-17	ED-20*	ED-22	ED-30	ED-32
AE26-60C	ED-5	ED-17	ED-20*	ED-22	ED-30	ED-32
AE26-75C	ED-5	ED-17	ED-20*	ED-22	ED-30	ED-32
AE26-92C	ED-5	ED-17	ED-20*	ED-22	ED-30	ED-32
AE36-120C	ED-5	ED-17	ED-20*	ED-22	ED-33	ED-32
AE36-140C	ED-5	ED-17	ED-20*	ED-22	ED-33	ED-32
AE46-164C	ED-6	ED-17	ED-23*	ED-22	ED-35	ED-32
AE46-185C	ED-6	ED-17	ED-23*	ED-22	ED-35	ED-32
AE56-210C	ED-7	ED-17	ED-23*	ED-22	ED-35	ED-34
AE66-245C	ED-7	ED-17	ED-23*	ED-22	ED-35	ED-34
AE66-280C	ED-7	ED-17	ED-23*	ED-22	ED-35	ED-34
AE14-37C	ED-5	ED-17	ED-20*	ED-22	ED-30	ED-32
AE24-72C	ED-5	ED-17	ED-20*	ED-22	ED-30	ED-32
AE24-85C	ED-5	ED-17	ED-20*	ED-22	ED-30	ED-32
AE34-105C	ED-5	ED-17	ED-20*	ED-22	ED-33	ED-32
AE44-140C	ED-6	ED-17	ED-23*	ED-22	ED-35	ED-32
AE54-180C	ED-7	ED-17	ED-23*	ED-22	ED-35	ED-34
AE64-215C	ED-7	ED-17	ED-23*	ED-22	ED-35	ED-34

KIT NO.	TIMER	AUXILIARY SWITCH	BLOCK-OUT RELAY	DEFROST CONTACTOR	FAN CONTACTOR	SEQUENCING RELAY
ED5-230/1	1	—	1-15A	—	—	—
ED5-230/3	1	—	1-15A	—	—	—
ED6-230/1	1	—	1-20A	—	—	—
ED6-230/3	1	—	1-20A	—	—	—
ED7-230/1	1	—	1-25A	—	—	—
ED7-230/3	1	—	1-25A	—	—	—
ED10-230/1	1	—	1-30A	—	—	—
ED11-230/3	1	1	—	1-30A	—	—
ED17-460/3	1	1	—	1-15A	1-15A	—
ED18-460/3	1	1	—	1-20A	1-20A	—
ED12-460/3	1	1	—	1-30A	1-25A	—
¹ ED210-230/1	1	—	1-30A	—	—	—
¹ ED213-230/1	1	1	—	1-50A	—	—
¹ ED213-230/3	1	1	—	1-50A	—	—
ED20-230/1	1	—	1-30A	—	—	2
ED22-460/3	1	1	—	2-15A	1-25A	2
ED23-230/1	1	1	—	2-25A	—	2
ED23-230/3	1	1	—	2-25A	—	2
ED30-230/1	1	—	1-30A	—	—	3
ED32-460/3	1	1	—	3-10A	1-25A	3
ED33-230/1	1	1	—	3-16A	—	3
ED34-460/3	1	1	—	3-16A	1-25A	3
ED35-230/1	1	1	—	3-33A	—	3
ED35-230/3	1	1	—	3-33A	—	3

¹ For use with 2 evaporators , 1/2 through 3 HP R-series systems ONLY!

Electric defrost kits consist of components that are necessary to control the defrost cycle. The kits are available as a factory installed option when ordered with a condensing unit. Not all Ed-Kits are available for all condensing unit models. The contents of each kit is described below, along with the function of each component.

* - 1/2 through 3 HP condensing units require ED-210 or ED-213 for systems with 2 evaporators.

Timer: Initiates the defrost cycle. Also used as a override protection for defrost termination.

Auxiliary Switch: It's mounted on the compressor contactor and prevents the defrost contactor from operating whenever the compressor is energized.

Block-Out Relay: Serves the same function as auxiliary switch. Used when defrost contactor is not required (lower wattage single phase only).

Defrost Contactor: Carries amperage load for heaters.

Fan Contactor: Used with 460V motors or when 230V motors are wired 3 phase.

Sequencing Relays: Provides interconnection of multiple unit coolers on a single system so that each unit cooler is allowed to individually terminate defrost on temperature.



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



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Low Profile Unit Coolers

Technical Guide

Models ADT | LET/LLE | HGT



BOHN

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Choose the most energy-efficient motor available for evaporators.



The EC motor is an energy sufficient option on 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 are 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% energy 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.

Nomenclature

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

Controls Options

- Quick Response Controller units come factory mounted with an electronic expansion valve, pressure transducer, temperature sensors and control board.
- Beacon II™ units come factory mounted with an electronic expansion valve, pressure transducer, temperature sensors and control board
- Split System Controller replaces defrost time clock, room thermostat, and defrost termination switch
- Split System Controller installed in factory must be ordered in conjunction with mounted components (TXV and liquid line solenoid valve) on the coil. Also available as a retrofit option for existing unit coolers

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 are suitable for 50 Hz operation

Drain Pan

- Large diameter drain hole (3/4" ID) is located towards 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

Other Options

- Units available with factory installed mounted components: Sporlan R404A Expansion Valve, Mechanical Room Thermostat, Emerson Solenoid Valve with Dual Voltage Coil
 - Units available with mounted TXV and mounted TXV with 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
- Most models available with glycol circuiting (see glycol product brochure BN-GUCTB)
- 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: AIR DEFROST

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: AIR DEFROST

Model ADT Air Defrost | 60 Hz

Model	HP	PSC, PSC-TE Motor						EC Motor			
		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
ADT040	1/15	1.0	82	0.5	91	0.4	117	0.9	57	0.5	59
ADT052	1/15	1.0	82	0.5	91	0.4	117	0.9	57	0.5	59
ADT065	1/15	1.0	82	0.5	91	0.4	117	0.9	57	0.5	59
ADT070	1/15	2.0	164	1.0	182	0.8	234	1.8	114	1.0	118
ADT090	1/15	2.0	164	1.0	182	0.8	234	1.8	114	1.0	118
ADT104	1/15	2.0	164	1.0	182	0.8	234	1.8	114	1.0	118
ADT120	1/15	2.0	164	1.0	182	0.8	234	1.8	114	1.0	118
ADT130	1/15	2.0	164	1.0	182	0.8	234	1.8	114	1.0	118
ADT140	1/15	3.0	246	1.5	273	1.2	351	2.7	171	1.5	177
ADT156	1/15	3.0	246	1.5	273	1.2	351	2.7	171	1.5	177
ADT180	1/15	3.0	246	1.5	273	1.2	351	2.7	171	1.5	177
ADT208	1/15	4.0	328	2.0	364	1.6	468	3.6	228	2.0	236
ADT260	1/15	5.0	410	2.5	455	2.0	585	4.5	285	2.5	295
ADT312	1/15	6.0	492	3.0	546	2.4	702	5.4	342	3.0	354
ADT370	1/15	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 : ELECTRIC DEFROST

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
4 Fins Per Inch	LET280	28,000	8,200	6	3,900	6,627
	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
4 Fins Per Inch	LET280	26,600	7,791	6	3,512	5,967
	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: ELECTRIC DEFROST

Model LET/LLE Electric Defrost | 60 Hz

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

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

PERFORMANCE DATA : HOT GAS DEFROST

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
	HGT041	4,100	1,200	1	690	1,172
4 Fins Per Inch	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	13,300	3,896	3	1,756	2,984
	HGT160	15,200	4,452	4	2,341	3,978
	HGT180	17,100	5,009	4	2,341	3,978
	HGT200	19,000	5,565	5	2,927	4,973
	HGT240	22,800	6,678	6	3,512	5,967
	HGT280	26,600	7,791	6	3,512	5,967
	HGT041	3,895	1,141	1	621	1,056
4 Fins Per Inch	HGT068	6,460	1,892	2	1,243	2,111
	HGT080	7,600	2,226	2	1,243	2,111
	HGT102	9,690	2,838	3	1,954	3,320
	HGT136	12,920	3,784	4	2,485	4,223
	HGT170	16,150	4,731	5	3,107	5,279
	HGT204	19,380	5,677	6	3,728	6,334
	HGT235	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: HOT GAS DEFROST

Model HGT Hot Gas Defrost | 60 Hz

Model	HP	PSC, PSC-TE Motor						EC Motor				Drain Pan Heaters*				
		115/1/60		208-230/1/60		460/1/60		115/1/60		208-230/1/60		Watts	115/1/60	230/1/60	460/1/60	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts		Total Amps			
6 Fins Per Inch	HGT035	1/15	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	1.0	82	0.5	91	0.4	117	1.1	57	0.6	59	300	2.6	1.3	0.7
	HGT047	1/15	1.0	82	0.5	91	0.4	117	1.1	57	0.6	59	300	2.6	1.3	0.7
	HGT065	1/15	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	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	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	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	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	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	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	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	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	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	1.0	82	0.5	91	0.4	117	1.1	57	0.6	59	300	2.6	1.3	0.7
	HGT068	1/15	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	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	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	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	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	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	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				Drain Pan Heaters*				
		110/1/50		220/1/50		380/1/50		110/1/50		220/1/50		Watts	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
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/LLE 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
4 Fins Per Inch	LET280	6	1/2	1-1/8	1/4	3/4	124	57
	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

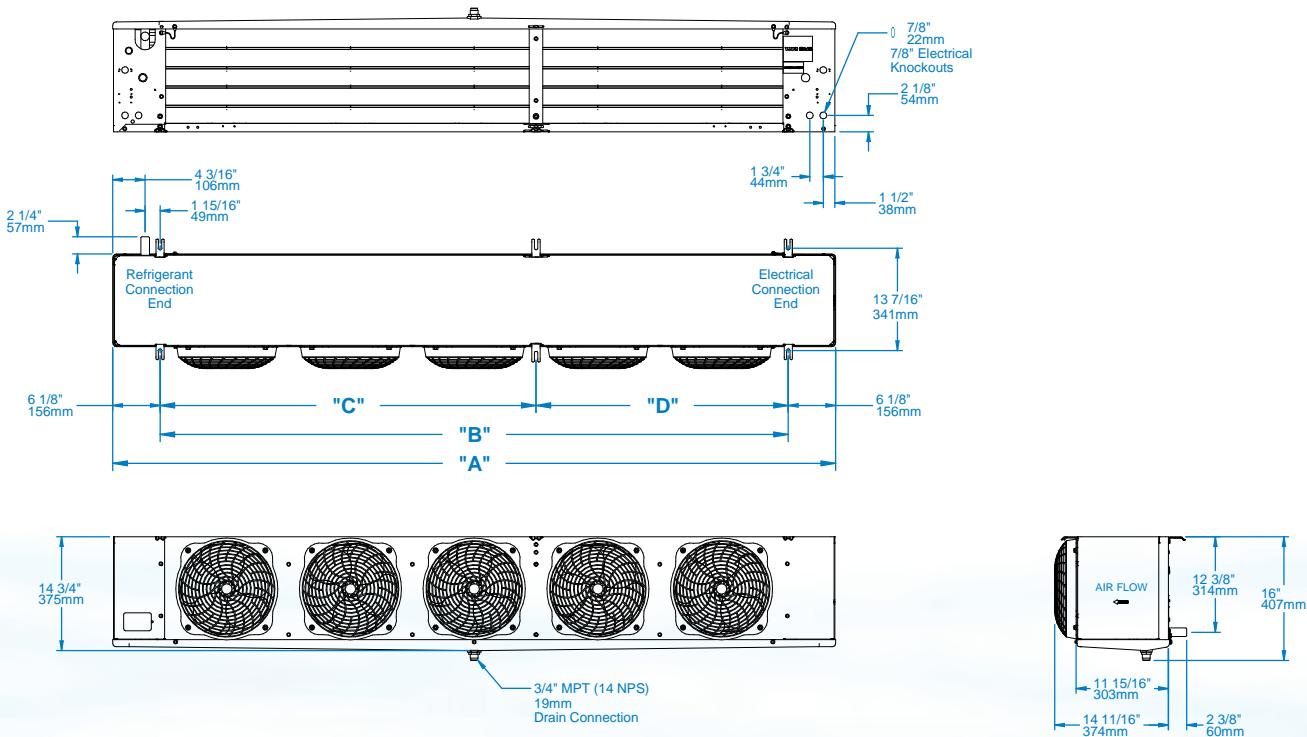
Model	No. of Fans	Connections (in.)						Approx. Net Wt.		
		Coil Inlet OD	Suction OD	External Equalizer OD	Drain MPT	Side Port OD	Hot Gas Pan Conn. OD	lbs.	kg	
6 Fins Per Inch	HGT035	1	5/8	5/8	1/4	3/4	3/8	5/8	26	12
	HGT040	1	5/8	5/8	1/4	3/4	3/8	5/8	28	13
	HGT047	1	5/8	5/8	1/4	3/4	3/8	5/8	31	15
	HGT065	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								
	6FPI	6FPI		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	HFESC
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	SQE/SBF	EG	HFESC	SQE/SBF	EG	HFESC
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	50169304	52733601	52733801
075-140	50169305	50169305	52733602	52733802
160-280	50169306	50169306	52733603	52733802
HGT 4 FPI				
41	50169304	50169304	52733801	52733801
068-102	50169305	50169305	52733802	52733802
136-235	50169306	50169306	52733802	52733802

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.

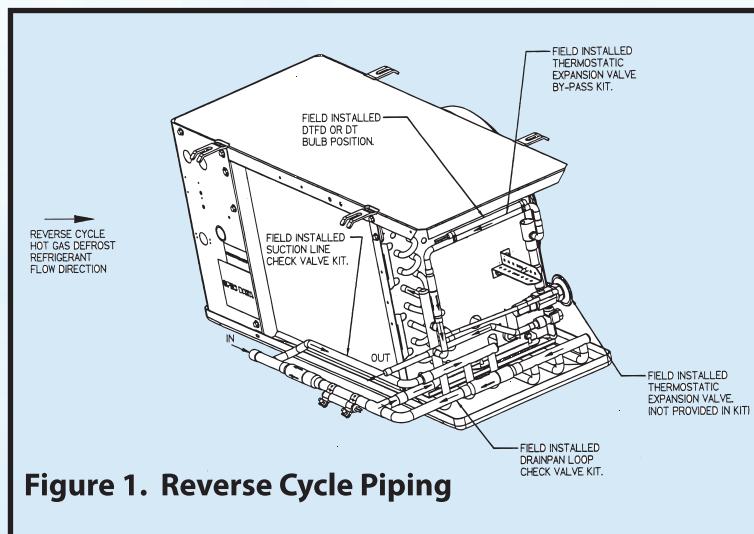


Figure 1. Reverse Cycle Piping

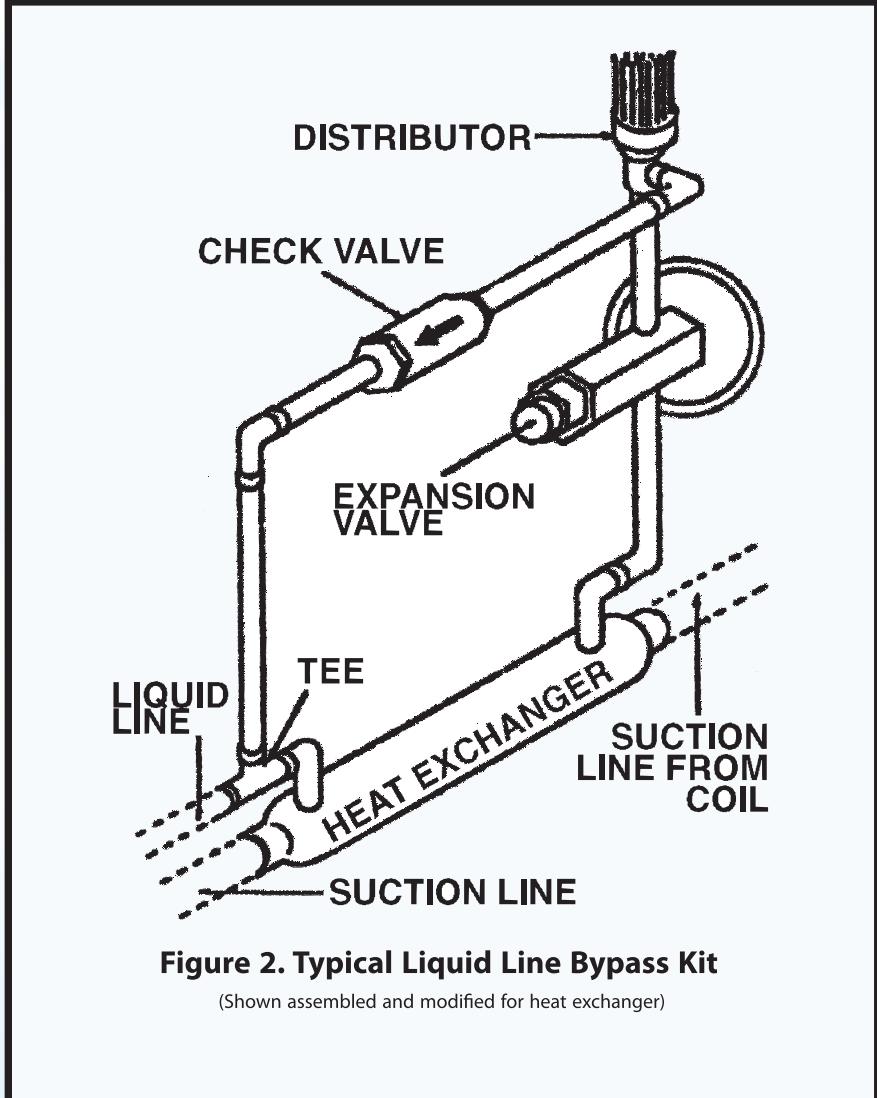
HOT GAS REVERSE CYCLE KITS (cont.)

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 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 Flow Controls 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 coolers conform 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 Flow Controls 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.

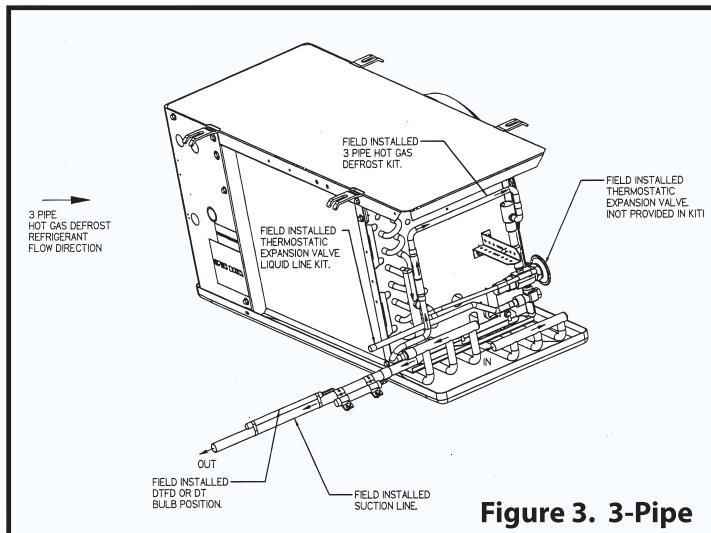


Figure 3. 3-Pipe

Shipped-loose				Factory-installed		
TXV Liquid Line				TXV Liquid Line		
HGT 6 FPI	SQE/SBF	EG	EG	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	SQE/SBF	EG	EG	SQE/SBF	EG	HFESC
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

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No. Fans	Air Defrost	Electric & Hot Gas Defrost	
	6 FPI	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
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-407A, C, and F**
		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-3/4
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-1-1/2
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-407A, C, and F**	R-404A*	R-407A, C, and F**
6 Fins Per Inch	LET035	1	3/16	15	2	L-1/2	L-1/3	L-1/3
	LET040	1	3/16	15	2	L-3/4	L-1/3	L-1/3
	LET047	1	3/16	15	2	L-3/4	L-1/2	L-1/2
	LET065	2	3/16	15	4	L-1	L-3/4	L-3/4
	LET075	2	3/16	15	4	L-1-1/2	L-3/4	L-3/4
	LET090	2	3/16	15	5	L-1-1/2	L-1	L-3/4
	LET120	3	3/16	15	5	L-2	L-1	L-1
	LET140	3	3/16	15	6	L-2	L-1-1/2	L-3/4
	LET160	4	3/16	15	8	L-2-1/2	L-1-1/2	L-1
	LET180	4	3/16	15	10	L-2-1/2	L-2	L-1-1/2
	LET200	5	3/16	15	9	L-3	L-2	L-1-1/2
	LET240	6	3/16	15	9	L-3	L-2	L-1-1/2
	LET280	6	3/16	15	10	L-4	L-2-1/2	L-2
4 Fins Per Inch	LLE041	1	3/16	15	2	L-3/4	L-1/3	L-1/3
	LLE068	2	3/16	15	4	L-1	L-3/4	L-1/2
	LLE080	2	3/16	15	4	L-1-1/2	L-3/4	L-1/2
	LLE102	3	3/16	15	5	L-1-1/2	L-1	L-3/4
	LLE136	4	3/16	15	8	L-2	L-1-1/2	L-3/4
	LLE170	5	3/16	15	8	L-2-1/2	L-1-1/2	L-1
	LLE204	6	3/16	15	8	L-3	L-2	L-1-1/2
	LLE235	6	3/16	15	10	L-4	L-2	L-1-1/2

*Also suitable for R-507, R-502, R-134a, R-401A, R-402A, R-448A & R-449A

** Also suitable for R-22.

Note: Nozzles sized for 90-100°F liquid temperature at expansion valve.

Contact Application Engineering for guidance if:

- Liquid temperature is not 90-100°F
- Evaporator TD is not 10°-15°F (room temperature – saturated suction temperature)

Caution: Refrigeration system will not perform properly without correct nozzle!

STANDARD NOZZLE SELECTION

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-407A, C, and F**	R-404A*	R-407A, C, and F**
6 Fins Per Inch	HGT035	1	1/4	15	2	J-3/4	J-1/3	J-1/3
	HGT040	1	1/4	15	2	J-3/4	J-1/2	J-1/3
	HGT047	1	1/4	15	2	J-3/4	J-1/2	J-1/2
	HGT065	2	1/4	15	4	J-1	J-3/4	J-3/4
	HGT075	2	1/4	15	4	J-1-1/2	J-3/4	J-1/2
	HGT090	2	1/4	15	5	G-1-1/2	G-1	G-1
	HGT120	3	1/4	15	5	G-2	G-1-1/2	G-1
	HGT140	3	1/4	15	6	G-2-1/2	G-1-1/2	G-1
	HGT160	4	1/4	15	8	G-2-1/2	G-2	G-1-1/2
	HGT180	4	1/4	15	10	E-3	E-2	E-1
	HGT200	5	1/4	15	9	E-3	E-2	E-1-1/2
	HGT240	6	1/4	15	9	E-4	E-2-1/2	E-1-1/2
4 Fins Per Inch	HGT280	6	1/4	15	10	E-4	E-3	E-2-1/2
	HGT041	1	1/4	15	2	J-3/4	J-1/2	J-1/3
	HGT068	2	1/4	15	4	J-1	J-3/4	J-3/4
	HGT080	2	1/4	15	4	J-1-1/2	J-3/4	J-1/2
	HGT102	3	1/4	15	5	G-2	G-1	G-3/4
	HGT136	4	1/4	15	8	G-3	G-1-1/2	G-1-1/2
	HGT170	5	1/4	15	8	G-3	G-2	G-1
	HGT204	6	1/4	15	8	G-3	G-2	G-1-1/2
	HGT235	6	1/4	15	10	E-4	E-2-1/2	E-1-1/2

*Also suitable for R-507, R-502, R-134a, R-401A, R-402A, R-448A & R-449A

**Also suitable for R-22.

Note: Nozzles sized for 90-100°F liquid temperature at expansion valve.

Contact Application Engineering for guidance if:

- Liquid temperature is not 90-100°F
- Evaporator TD is not 10°-15°F (room temperature – saturated suction temperature)

Caution: Refrigeration system will not perform properly without correct nozzle!

Notes



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

BN-LOPTB-0716 | Version 001

H-MSTB

March 2017

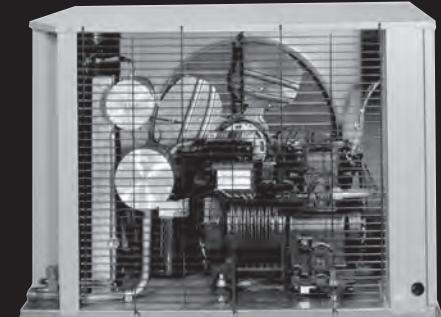
Replaces H-MSTB, August 2016

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	6 = R-404A/507 (R-407A/R-407C Available on select Hermetic and Scroll Models, and R-448A/R-449A available on select Scroll Models)	2 = 208/230/1/60 3 = 208/230/3/60 4 = 460/3/60 9 = 230/1/60 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

- Microchannel coil technology standard on most 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



Typical Outdoor Hermetic Unit

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



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

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-404A/507 available for both medium and low temperature applications (R-407A/R-407C available on select Scroll & Hermetic Models, and R-448A/R-449A available on select Scroll Models)
- Spring-mounted compressors with vibration eliminators on all 1-1/2 to 6 HP semi-hermetic compressors; 1/2 to 1 HP semi-hermetic compressors are rigid mounted and have a discharge loop
- Discharge service valves come standard on all units including hermetics



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	N/A
Air or electric defrost timer only	Option	Option	1/2-3 HP low temp.
Beacon II™	Option	N/A	N/A
Crankcase heater	Standard	N/A	Standard
Dual pressure control (not available on Beacon II™)	Option	Option	N/A
Electric defrost with timer & contactors (040-060 models only)	Option	Option	4-6 HP low temp.
Fixed fan cycling — pressure or temperature (2 fan units) (Pressure standard on Beacon II™)	Option	Option	N/A
Fused disconnect / Non-fused disconnect	Option	Shipped loose	N/A
Phase loss / low voltage monitor	Option	Option	N/A
Smart Defrost Kit™ (Factory-Installed)	Option	Option	N/A
Variable speed EC (VSEC) motors with Orbus controller	Option	N/A	N/A
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	N/A
Low ambient kit with heated and insulated receiver, TD relay	Option	N/A	N/A
Oil separator with discharge line check valve (D cabinet)	Option	Option	N/A
Oversize receiver (D cabinet)	Option	Option	N/A
Precharged refrigerant with quick connect fittings	Option	Option	N/A
Replaceable core liquid line filter (D cabinet)	Option	Option	N/A
Replaceable core suction line filter (D cabinet)	Option	Option	N/A
Suction accumulator	Option	Option	N/A
Suction line filter	Option	Option	N/A



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)

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 [†]	RST70C1E	13,720	12,610
MOH015D6	CS10K6E	21,400	19,460
MOH025D6	CS14K6E	26,320	24,270
MOH032D6	CS20K6E	42,890	39,110

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 [†]	RST70C1E	13,010	11,960
MOH015D6	CS10K6E	20,260	18,400
MOH025D6	CS14K6E	25,000	23,030
MOH032D6	CS20K6E	40,730	37,110

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 [†]	RST70C1E	12,310	11,320
MOH015D6	CS10K6E	19,120	17,350
MOH025D6	CS14K6E	23,690	21,810
MOH032D6	CS20K6E	38,560	35,100

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 [†]	RST70C1E	10,920	10,040
MOH015D6	CS10K6E	16,880	15,280
MOH025D6	CS14K6E	21,100	19,410
MOH032D6	CS20K6E	34,210	31,070

[†] = RST compressor not suitable for R-507

1/2 To 6 HP Indoor & Outdoor Condensing Units

HERMETIC COMPRESSORS

Performance Data - Extended Temperature (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 [†]	RST70C1E	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

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 [†]	RST70C1E	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

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 [†]	RST70C1E	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

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 [†]	RST70C1E	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

† = RST compressor not suitable for R-507

1/2 To 6 HP Indoor & Outdoor Condensing Units

HERMETIC COMPRESSORS

Performance Data - Low Temperature (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

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

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

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 - Extended Temperature (R-407C)

Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature					
		40°F	30°F	25°F	20°F	10°F	0°F
MOH005X6	RST45C1E	7,310	5,970	7,310	4,760	3,730	2,880
MOH008X6	RST55C1E	8,420	6,960	6,260	5,610	4,440	3,420
MOH009X6	RST64C1E	10,310	8,560	7,760	7,000	5,590	4,330
MOH010X6	RST70C1E	10,450	8,710	7,920	7,160	5,770	4,470

Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature					
		40°F	30°F	25°F	20°F	10°F	0°F
MOH005X6	RST45C1E	7,050	5,730	5,140	4,570	3,570	2,750
MOH008X6	RST55C1E	8,090	6,680	6,010	5,400	4,260	3,280
MOH009X6	RST64C1E	9,890	8,210	7,440	6,710	5,370	—
MOH010X6	RST70C1E	10,040	8,360	7,600	6,880	5,530	—

Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature					
		40°F	30°F	25°F	20°F	10°F	0°F
MOH005X6	RST45C1E	6,770	5,520	4,930	4,380	3,420	—
MOH008X6	RST55C1E	7,750	6,400	5,750	5,160	4,090	—
MOH009X6	RST64C1E	9,460	7,850	7,120	6,420	5,140	—
MOH010X6	RST70C1E	9,620	8,010	7,290	6,590	5,300	—

Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature					
		40°F	30°F	25°F	20°F	10°F	0°F
MOH005X6	RST45C1E	6,220	5,050	4,510	4,010	3,110	—
MOH008X6	RST55C1E	7,080	5,840	5,260	4,710	3,730	—
MOH009X6	RST64C1E	—	7,140	6,480	5,850	4,670	—
MOH010X6	RST70C1E	—	7,300	6,640	6,030	—	—

1/2 To 6 HP Indoor & Outdoor Condensing Units

HERMETIC COMPRESSORS

Performance Data - Extended Temperature (R-448A/R-449A)

Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature					
		30°F	25°F	20°F	10°F	0°F	-10°F
MOH005X6	RST45C1E	6130	5520	4920	3860	2970	2240
MOH008X6	RST55C1E	7380	6660	5960	4700	3650	2860
MOH009X6	RST64C1E	8670	7880	7120	5690	4450	3460
MOH010X6	RST70C1E	9870	9100	8330	6860	5450	4220

Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature					
		30°F	25°F	20°F	10°F	0°F	-10°F
MOH005X6	RST45C1E	5870	5270	4700	3690	2830	2130
MOH008X6	RST55C1E	7050	6350	5660	4450	3450	2700
MOH009X6	RST64C1E	8310	7550	6830	5440	4240	3290
MOH010X6	RST70C1E	9450	8700	7960	6540	5200	3990

Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature					
		30°F	25°F	20°F	10°F	0°F	-10°F
MOH005X6	RST45C1E	5600	5030	4480	3510	2690	2020
MOH008X6	RST55C1E	6750	6050	5390	4210	3250	2550
MOH009X6	RST64C1E	7950	7220	6530	5180	4040	-
MOH010X6	RST70C1E	9070	8310	7590	6220	4930	-

Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature					
		30°F	25°F	20°F	10°F	0°F	-10°F
MOH005X6	RST45C1E	5070	4540	4050	3160	2420	1810
MOH008X6	RST55C1E	6130	5470	4860	3770	2890	2260
MOH009X6	RST64C1E	7970	6580	5940	4710	3840	-
MOH010X6	RST70C1E	9210	8370	6860	5590	4700	-

NOTES:

* = T for Outdoor, N for Indoor, S for Beacon II

Call Factory

SCT out of range

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.)		
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	RST70C1E	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
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	RST70C1E	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

++ = 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

HERMETIC COMPRESSORS Electrical Data

Model	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.		
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	RST70C1E-PFV	208-230	1	60	6.3	34.2	1	1/15	0.5	15.0	20.0	15	20	7.0	15
MOH010X63	RST70C1E-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	^	^
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	RST70C1E-PFV	208-230	1	60	6.9	34.2	1	1/15	0.5	15.0	-	15	-	-	-
MOH010D63	RST70C1E-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	-	-	-

^ 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)

Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature								
		40°F	30°F	25°F	20°F	10°F	0°F	-10°F	-20°F	-25°F
MOZ010M6	ZS09KAE	17,730	14,770	13,420	12,160	9,920	8,040	6,460	5,130	4,540
MOZ015M6	ZS13KAE	22,840	19,190	17,490	15,880	16,060	10,640	8,610	6,880	6,110
MOZ020M6	ZS15KAE	26,550	22,440	20,560	18,730	15,470	12,660	10,280	8,250	7,340
MOZ025M6	ZS19KAE	28,990	24,460	22,410	20,520	16,980	13,970	11,380	9,160	8,140
MOZ030M6	ZS21KAE	42,030	35,340	32,260	29,300	24,050	19,540	15,750	12,570	11,160
MOZ035M6	ZS26KAE	45,290	38,280	34,960	31,830	26,200	21,350	17,230	13,770	12,250
MOZ045M6	ZS29KAE	49,890	42,320	38,830	35,420	29,280	23,920	19,370	15,520	13,810
MOZ050M6	ZS33KAE	53,930	45,740	41,980	38,450	31,790	26,110	21,210	17,030	15,180
MOZ055M6	ZS38K4E	57,230	50,410	46,970	43,530	36,770	30,380	24,200	18,140	15,190
MOZ060M6	ZS45K4E	65,560	58,120	54,430	50,680	43,160	35,890	28,800	21,690	18,180

Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature								
		40°F	35°F	25°F	20°F	10°F	0°F	-10°F	-20°F	-25°F
MOZ010M6	ZS09KAE	17,060	14,220	12,930	11,720	9,570	7,760	6,250	4,980	4,410
MOZ015M6	ZS13KAE	21,950	18,450	16,780	15,300	12,570	10,250	8,310	6,660	5,920
MOZ020M6	ZS15KAE	25,490	21,550	19,750	18,000	14,870	12,180	9,920	7,990	7,120
MOZ025M6	ZS19KAE	27,810	23,460	21,500	19,690	16,310	13,430	10,960	8,850	7,880
MOZ030M6	ZS21KAE	40,480	33,960	30,990	28,170	23,140	18,830	15,210	12,160	10,820
MOZ035M6	ZS26KAE	43,480	36,760	33,580	30,610	25,210	20,560	16,630	13,330	11,870
MOZ045M6	ZS29KAE	47,860	40,620	37,280	34,020	28,160	23,020	18,680	15,010	13,380
MOZ050M6	ZS33KAE	51,700	43,860	40,260	36,900	30,550	25,110	20,440	16,460	14,700
MOZ055M6	ZS38K4E	54,940	48,470	45,160	41,860	35,360	29,210	23,240	17,370	14,500
MOZ060M6	ZS45K4E	62,910	55,880	52,340	48,730	41,500	34,510	27,650	20,750	17,320

Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature								
		40°F	30°F	25°F	20°F	10°F	0°F	-10°F	-20°F	-25°F
MOZ010M6	ZS09KAE	16,430	13,670	12,465	11,260	9,200	7,470	6,030	4,820	4,280
MOZ015M6	ZS13KAE	21,050	17,690	16,110	14,690	12,070	9,850	8,000	6,430	5,730
MOZ020M6	ZS15KAE	24,420	20,640	18,920	17,250	14,260	11,690	9,530	7,700	6,880
MOZ025M6	ZS19KAE	26,620	22,440	20,570	18,850	15,610	12,860	10,520	8,520	7,610
MOZ030M6	ZS21KAE	38,780	32,510	29,740	27,020	22,210	18,100	14,640	11,750	10,470
MOZ035M6	ZS26KAE	41,640	35,210	32,120	29,360	24,180	19,750	16,010	12,860	11,480
MOZ045M6	ZS29KAE	45,800	38,880	35,690	32,580	27,010	22,100	17,970	14,470	12,930
MOZ050M6	ZS33KAE	49,440	41,940	38,510	35,300	29,270	24,080	19,640	15,870	14,190
MOZ055M6	ZS38K4E	52,630	46,530	43,350	40,190	33,950	28,040	22,280	16,580	13,780
MOZ060M6	ZS45K4E	60,260	53,640	50,250	46,780	39,840	33,130	26,500	19,800	16,470

Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature								
		40°F	30°F	25°F	20°F	10°F	0°F	-10°F	-20°F	-25°F
MOZ010M6	ZS09KAE	15,010	12,510	11,370	10,330	8,450	6,870	5,560	4,470	3,990
MOZ015M6	ZS13KAE	19,200	16,130	14,720	13,380	11,010	9,010	7,340	5,940	5,320
MOZ020M6	ZS15KAE	22,300	18,780	17,210	15,680	12,960	10,650	8,720	7,090	6,360
MOZ025M6	ZS19KAE	24,200	20,370	18,670	17,110	14,150	11,690	9,590	7,810	7,000
MOZ030M6	ZS21KAE	35,310	29,700	27,060	24,630	20,270	16,560	13,440	10,840	9,710
MOZ035M6	ZS26KAE	37,880	32,030	29,300	26,690	22,040	18,040	14,680	11,860	10,620
MOZ045M6	ZS29KAE	41,600	35,430	32,420	29,560	24,530	20,140	16,440	13,310	11,930
MOZ050M6	ZS33KAE	44,850	38,020	34,910	32,010	26,610	21,910	17,940	14,570	—
MOZ055M6	ZS38K4E	47,970	42,650	39,740	36,840	31,120	25,700	20,340	14,960	12,300
MOZ060M6	ZS45K4E	—	49,170	46,060	42,880	36,520	30,370	24,460	18,630	15,760

1/2 To 6 HP Indoor & Outdoor Condensing Units

SCROLL COMPRESSORS

Performance Data - Medium Temperature (R-407A)

Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature								
		40°F	30°F	25°F	20°F	10°F	0°F	-10°F	-20°F	-25°F
MOZ010M6	ZS09KAE	15,350	12,820	11,710	10,690	8,870	7,290	5,850	4,430	3,690
MOZ015M6	ZS13KAE	19,540	16,560	15,170	13,890	11,580	9,600	7,760	5,970	5,040
MOZ020M6	ZS15KAE	22,390	19,080	17,590	16,150	13,550	11,250	9,170	7,060	5,960
MOZ025M6	ZS19KAE	24,230	20,780	19,180	17,700	14,910	12,430	10,130	7,820	-
MOZ030M6	ZS21KAE	35,850	30,360	27,740	25,240	20,660	16,570	12,990	9,810	8,370
MOZ035M6	ZS26KAE	39,030	33,210	30,410	27,730	22,760	18,340	14,270	10,490	8,680
MOZ045M6	ZS29KAE	-	-	30,800	28,160	23,260	18,790	14,670	10,770	8,860
MOZ050M6	ZS33KAE	46,450	39,990	36,780	33,690	27,860	22,470	17,590	12,960	10,730
MOZ055M6	ZS38K4E	-	43,820	40,600	37,520	31,280	25,510	20,360	16,040	-
MOZ060M6	ZS45K4E	-	-	46,630	43,090	36,400	30,070	24,390	-	-

Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature								
		40°F	35°F	25°F	20°F	10°F	0°F	-10°F	-20°F	-25°F
MOZ010M6	ZS09KAE	14,820	12,380	11,320	10,330	8,570	7,040	5,660	4,290	3,570
MOZ015M6	ZS13KAE	18,820	15,950	14,620	13,390	11,170	9,260	7,500	5,770	-
MOZ020M6	ZS15KAE	21,530	18,360	16,930	15,550	13,050	10,840	8,850	-	-
MOZ025M6	ZS19KAE	-	19,980	18,500	17,020	14,350	11,980	9,780	-	-
MOZ030M6	ZS21KAE	34,670	29,320	26,800	24,390	19,950	15,970	12,430	9,250	-
MOZ035M6	ZS26KAE	37,660	32,080	29,400	26,830	22,030	17,710	13,700	9,940	-
MOZ045M6	ZS29KAE	-	-	29,690	27,170	22,410	18,110	14,060	10,180	-
MOZ050M6	ZS33KAE	44,830	38,640	35,570	32,600	26,980	21,740	16,900	-	-
MOZ055M6	ZS38K4E	-	42,170	39,080	36,110	30,110	24,560	19,620	-	-
MOZ060M6	ZS45K4E	-	-	-	41,490	35,030	28,930	-	-	-

Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature								
		40°F	30°F	25°F	20°F	10°F	0°F	-10°F	-20°F	-25°F
MOZ010M6	ZS09KAE	14,280	11,940	10,920	9,950	8,260	6,790	5,460	4,140	-
MOZ015M6	ZS13KAE	18,090	15,340	14,060	12,880	10,750	8,920	7,230	-	-
MOZ020M6	ZS15KAE	-	17,690	16,270	14,940	12,550	10,440	8,530	-	-
MOZ025M6	ZS19KAE	-	19,160	17,750	16,340	13,790	11,520	-	-	-
MOZ030M6	ZS21KAE	33,430	28,310	25,890	23,580	19,290	15,400	11,900	-	-
MOZ035M6	ZS26KAE	36,410	30,980	28,410	25,950	21,330	17,120	13,180	-	-
MOZ045M6	ZS29KAE	-	-	28,600	26,200	21,650	17,470	13,510	-	-
MOZ050M6	ZS33KAE	-	37,340	34,430	31,590	26,180	21,080	-	-	-
MOZ055M6	ZS38K4E	-	-	-	34,660	28,910	23,600	-	-	-
MOZ060M6	ZS45K4E	-	-	-	-	33,630	-	-	-	-

Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature								
		40°F	30°F	25°F	20°F	10°F	0°F	-10°F	-20°F	-25°F
MOZ010M6	ZS09KAE	13,180	11,030	10,100	9,200	7,640	6,300	-	-	-
MOZ015M6	ZS13KAE	-	14,100	12,940	11,860	9,920	8,240	-	-	-
MOZ020M6	ZS15KAE	-	-	-	-	11,550	-	-	-	-
MOZ025M6	ZS19KAE	-	-	-	-	12,670	-	-	-	-
MOZ030M6	ZS21KAE	-	26,490	24,290	22,150	18,180	14,500	-	-	-
MOZ035M6	ZS26KAE	-	-	26,600	24,320	20,110	16,130	-	-	-
MOZ045M6	ZS29KAE	-	-	-	24,430	20,310	-	-	-	-
MOZ050M6	ZS33KAE	-	-	-	-	24,900	-	-	-	-
MOZ055M6	ZS38K4E	-	-	-	-	-	-	-	-	-
MOZ060M6	ZS45K4E	-	-	-	-	-	-	-	-	-

20°F Maximum Superheat

1/2 To 6 HP Indoor & Outdoor Condensing Units

SCROLL COMPRESSORS

Performance Data - Medium Temperature (R-407C)

Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature								
		40°F	30°F	25°F	20°F	10°F	0°F	-10°F	-20°F	-25°F
MOZ010M6	ZS09KAE	13,910	11,640	10,590	9,550	7,610	5,780	4,010	2,210	—
MOZ015M6	ZS13KAE	18,110	15,260	13,910	12,600	10,090	7,630	5,170	2,590	—
MOZ020M6	ZS15KAE	21,050	17,870	16,310	14,800	11,890	9,090	6,310	3,480	—
MOZ025M6	ZS19KAE	23,100	19,700	18,010	16,370	13,220	10,230	7,370	4,560	—
MOZ030M6	ZS21KAE	33,600	28,210	25,650	23,170	18,560	14,250	10,210	6,330	—
MOZ035M6	ZS26KAE	36,670	30,890	28,150	25,490	20,420	15,510	10,610	5,530	—
MOZ045M6	ZS29KAE	40,190	34,030	31,040	28,140	22,590	17,380	12,360	7,410	—
MOZ050M6	ZS33KAE	43,590	37,040	33,810	30,660	24,610	18,820	13,150	7,500	—
MOZ055M6	ZS38K4E	—	44,900	41,370	37,900	31,360	25,330	20,090	15,790	—
MOZ060M6	ZS45K4E	—	—	47,950	44,020	36,630	30,020	24,160	19,080	—

Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature								
		40°F	35°F	25°F	20°F	10°F	0°F	-10°F	-20°F	-25°F
MOZ010M6	ZS09KAE	13,540	11,350	10,320	9,310	7,420	5,620	3,870	2,080	—
MOZ015M6	ZS13KAE	17,610	14,860	13,540	12,260	9,810	7,400	4,980	2,430	—
MOZ020M6	ZS15KAE	20,470	17,390	15,880	14,400	11,560	8,800	6,070	3,280	—
MOZ025M6	ZS19KAE	22,450	19,160	17,510	15,910	12,840	9,910	7,090	4,320	—
MOZ030M6	ZS21KAE	32,700	27,470	24,980	22,570	18,050	13,810	9,800	5,940	—
MOZ035M6	ZS26KAE	35,680	30,080	27,410	24,820	19,870	15,040	10,210	5,180	—
MOZ045M6	ZS29KAE	39,100	33,140	30,230	27,400	21,980	16,870	11,920	7,020	—
MOZ050M6	ZS33KAE	42,380	36,020	32,870	29,800	23,870	18,160	12,520	6,900	—
MOZ055M6	ZS38K4E	—	43,500	40,070	36,700	30,340	24,500	19,440	—	—
MOZ060M6	ZS45K4E	—	—	—	42,670	35,570	29,040	23,370	18,520	—

Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature								
		40°F	30°F	25°F	20°F	10°F	0°F	-10°F	-20°F	-25°F
MOZ010M6	ZS09KAE	13,180	11,050	10,030	9,060	7,210	5,450	3,720	1,940	—
MOZ015M6	ZS13KAE	17,120	14,450	13,170	11,920	9,520	7,150	4,770	2,240	—
MOZ020M6	ZS15KAE	19,890	16,900	15,430	14,000	11,220	8,510	5,810	3,050	—
MOZ025M6	ZS19KAE	—	18,610	17,010	15,460	12,460	9,570	6,800	—	—
MOZ030M6	ZS21KAE	31,800	26,730	24,310	21,950	17,520	13,350	9,390	5,530	—
MOZ035M6	ZS26KAE	34,690	29,260	26,660	24,140	19,300	14,540	9,780	4,790	—
MOZ045M6	ZS29KAE	38,020	32,240	29,410	26,660	21,370	16,350	11,460	—	—
MOZ050M6	ZS33KAE	41,160	34,990	31,920	28,920	23,100	17,460	11,850	—	—
MOZ055M6	ZS38K4E	—	—	—	35,580	29,310	23,670	—	—	—
MOZ060M6	ZS45K4E	—	—	—	—	34,380	28,050	—	—	—

Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature								
		40°F	30°F	25°F	20°F	10°F	0°F	-10°F	-20°F	-25°F
MOZ010M6	ZS09KAE	12,440	10,450	9,490	8,560	6,790	5,080	3,380	—	—
MOZ015M6	ZS13KAE	—	13,620	12,410	11,230	8,920	6,630	—	—	—
MOZ020M6	ZS15KAE	—	—	—	13,170	10,510	7,890	—	—	—
MOZ025M6	ZS19KAE	—	—	—	—	11,650	—	—	—	—
MOZ030M6	ZS21KAE	30,000	25,220	22,920	20,690	16,420	12,350	—	—	—
MOZ035M6	ZS26KAE	—	27,590	25,140	22,740	18,080	13,480	—	—	—
MOZ045M6	ZS29KAE	—	—	27,780	25,170	20,110	15,250	—	—	—
MOZ050M6	ZS33KAE	—	—	—	27,080	21,460	15,920	—	—	—
MOZ055M6	ZS38K4E	—	—	—	—	—	—	—	—	—
MOZ060M6	ZS45K4E	—	—	—	—	—	—	—	—	—

20°F Maximum Superheat

1/2 To 6 HP Indoor & Outdoor Condensing Units

SCROLL COMPRESSORS

Performance Data - Medium Temperature (Models R-448A/449A)

Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature								
		40°F	30°F	25°F	20°F	10°F	0°F	-10°F	-20°F	-25°F
MOZ010M6	ZS09KAE	14,190	11,580	10,460	9,460	7,770	6,420	5,280	4,180	3,580
MOZ015M6	ZS13KAE	18,230	15,050	13,680	12,440	10,390	8,750	7,400	6,110	5,400
MOZ020M6	ZS15KAE	20,800	17,430	15,920	14,560	12,310	10,540	9,100	7,740	6,980
MOZ025M6	ZS19KAE	22,420	18,980	17,400	15,980	13,630	11,820	10,390	9,080	8,330
MOZ030M6	ZS21KAE	35,090	29,620	27,080	24,660	20,340	16,600	13,460	10,860	9,750
MOZ035M6	ZS26KAE	41,450	34,920	31,750	28,810	23,610	19,500	16,630	15,300	15,340
MOZ045M6	ZS29KAE	42,360	36,070	33,110	30,300	25,150	20,690	16,900	13,760	12,420
MOZ050M6	ZS33KAE	45,280	38,870	35,760	32,800	27,340	22,610	18,570	15,210	13,760
MOZ055M6	ZS38K4E ²	47,680	41,710	38,850	35,870	30,230	25,010	20,420	16,380	14,580
MOZ060M6	ZS45K4E ¹	52,970	46,440	43,350	40,270	34,360	28,760	23,710	19,250	17,230

Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature								
		40°F	30°F	25°F	20°F	10°F	0°F	-10°F	-20°F	-25°F
MOZ010M6	ZS09KAE	13,710	11,210	10,140	9,190	7,610	6,390	5,420	-	-
MOZ015M6	ZS13KAE	17,540	14,510	13,210	12,050	10,170	8,730	7,630	-	-
MOZ020M6	ZS15KAE	19,930	16,750	15,330	14,080	12,030	10,510	9,400	-	-
MOZ025M6	ZS19KAE	21,410	18,140	16,730	15,420	13,300	11,790	10,720	-	-
MOZ030M6	ZS21KAE	33,950	28,700	26,260	23,940	19,810	16,240	13,280	-	-
MOZ035M6	ZS26KAE	39,770	33,440	30,540	27,730	22,820	19,050	16,560	-	-
MOZ045M6	ZS29KAE	40,960	34,940	32,110	29,430	24,520	20,280	16,710	-	-
MOZ050M6	ZS33KAE	43,760	37,630	34,670	31,850	26,680	22,190	18,400	-	-
MOZ055M6	ZS38K4E ²	45,640	39,940	37,200	34,350	28,970	24,000	19,620	-	-
MOZ060M6	ZS45K4E ¹	50,620	44,410	41,470	38,720	32,930	27,600	22,820	-	-

Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature								
		40°F	30°F	25°F	20°F	10°F	0°F	-10°F	-20°F	-25°F
MOZ010M6	ZS09KAE	13,210	10,820	9,810	8,900	7,450	6,380	5,590	-	-
MOZ015M6	ZS13KAE	16,760	13,940	12,720	11,640	9,940	8,710	7,870	-	-
MOZ020M6	ZS15KAE	19,010	16,050	14,720	13,570	11,730	10,470	9,710	-	-
MOZ025M6	ZS19KAE	20,470	17,310	16,020	14,830	12,950	11,730	11,060	-	-
MOZ030M6	ZS21KAE	32,820	27,790	25,420	23,250	19,300	15,930	13,160	-	-
MOZ035M6	ZS26KAE	38,210	31,970	29,250	26,570	21,950	18,520	16,410	-	-
MOZ045M6	ZS29KAE	39,560	33,830	31,140	28,590	23,930	19,920	16,600	-	-
MOZ050M6	ZS33KAE	42,240	36,420	33,610	30,940	26,050	21,840	18,310	-	-
MOZ055M6	ZS38K4E ²	43,550	38,120	35,510	32,800	27,680	22,960	18,800	-	-
MOZ060M6	ZS45K4E ¹	48,240	42,350	39,570	36,960	31,460	26,420	21,910	-	-

Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature								
		40°F	30°F	25°F	20°F	10°F	0°F	-10°F	-20°F	-25°F
MOZ010M6	ZS09KAE	12,120	9,980	9,070	8,300	7,110	6,340	-	-	-
MOZ015M6	ZS13KAE	15,190	12,710	11,660	10,750	9,420	8,620	-	-	-
MOZ020M6	ZS15KAE	17,080	14,480	13,400	12,450	11,040	10,320	-	-	-
MOZ025M6	ZS19KAE	18,320	15,560	14,510	13,530	12,110	11,490	-	-	-
MOZ030M6	ZS21KAE	30,570	26,010	23,880	21,930	18,400	15,440	-	-	-
MOZ035M6	ZS26KAE	34,630	28,810	26,280	24,010	20,020	17,220	-	-	-
MOZ045M6	ZS29KAE	36,800	31,670	29,270	26,960	22,890	19,400	-	-	-
MOZ050M6	ZS33KAE	39,330	34,030	31,550	29,150	24,940	21,310	-	-	-
MOZ055M6	ZS38K4E ²	39,230	34,510	32,010	29,580	24,990	20,780	-	-	-
MOZ060M6	ZS45K4E ¹	-	38,150	35,670	33,360	28,460	23,930	-	-	-

NOTES:

Call Factory

SCT out of range

¹R-448A/R-449A not available for 460/3/60 models.

²R-448A/R-449A not available for 208-230/1/60 models.

1/2 To 6 HP Indoor & Outdoor Condensing Units

SCROLL COMPRESSORS

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

Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature								
		0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
MOZ020L6	ZF06K4E	11,670	10,620	9,640	8,710	7,840	7,020	6,240	5,500	4,790
MOZ025L6	ZF08K4E	14,330	13,090	11,880	10,750	9,690	8,690	7,770	6,900	6,080
MOZ030L6	ZF09K4E	15,860	14,480	13,220	11,990	10,840	9,760	8,730	7,760	6,830
MOZ035L6	ZF11K4E	18,860	17,300	15,810	14,390	13,030	11,760	10,550	9,410	8,330
MOZ045L6	ZF13K4E	23,620	21,430	19,380	17,440	15,620	13,930	12,350	10,880	9,510
MOZ055L6	ZF15K4E	28,370	25,910	23,520	21,280	19,190	17,230	15,400	13,690	12,090
MOZ060L6	ZF18K4E	32,630	29,860	27,230	24,790	22,400	20,170	18,060	16,040	14,110

Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature								
		0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
MOZ020L6	ZF06K4E	11,220	10,220	9,280	8,390	7,560	6,760	6,010	5,290	4,600
MOZ025L6	ZF08K4E	13,760	12,570	11,410	10,330	9,320	8,360	7,470	6,640	5,850
MOZ030L6	ZF09K4E	15,200	13,890	12,690	11,520	10,420	9,380	8,410	7,470	6,580
MOZ035L6	ZF11K4E	18,010	16,530	15,120	13,780	12,490	11,290	10,130	9,040	8,010
MOZ045L6	ZF13K4E	22,630	20,540	18,570	16,720	14,990	13,370	11,880	10,480	9,200
MOZ055L6	ZF15K4E	27,170	24,820	22,540	20,410	18,420	16,550	14,810	13,170	11,640
MOZ060L6	ZF18K4E	31,270	28,650	26,180	23,830	21,560	19,430	17,420	15,490	13,640

Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature								
		0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
MOZ020L6	ZF06K4E	10,770	9,820	8,930	8,080	7,270	6,510	5,790	5,090	4,420
MOZ025L6	ZF08K4E	13,150	12,000	10,920	9,900	8,930	8,020	7,170	6,370	5,610
MOZ030L6	ZF09K4E	14,530	13,290	12,160	11,040	9,990	9,000	8,070	7,170	6,310
MOZ035L6	ZF11K4E	17,140	15,750	14,420	13,110	11,950	10,790	9,690	8,660	7,680
MOZ045L6	ZF13K4E	21,620	19,620	17,750	15,990	14,350	12,820	11,400	10,100	8,890
MOZ055L6	ZF15K4E	25,970	23,710	21,540	19,520	17,630	15,850	14,200	12,640	11,170
MOZ060L6	ZF18K4E	29,890	27,360	25,070	22,860	20,700	18,680	16,770	14,930	13,170

Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature								
		0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
MOZ020L6	ZF06K4E	9,890	9,040	8,230	7,470	6,730	6,040	5,370	4,720	4,090
MOZ025L6	ZF08K4E	11,910	10,870	9,900	8,980	8,120	7,300	6,530	5,790	5,100
MOZ030L6	ZF09K4E	13,120	12,060	11,040	10,030	9,100	8,210	7,360	6,550	5,760
MOZ035L6	ZF11K4E	15,340	14,120	12,940	11,800	10,730	9,740	8,760	7,840	6,970
MOZ045L6	ZF13K4E	19,540	17,740	16,070	14,500	13,040	11,690	10,460	9,330	8,300
MOZ055L6	ZF15K4E	23,380	21,350	19,450	17,660	15,970	14,390	12,910	11,510	10,190
MOZ060L6	ZF18K4E	27,080	24,860	22,830	20,820	18,940	17,140	15,430	13,790	12,200

NOTE: The ZF compressor comes with liquid injection.

1/2 To 6 HP Indoor & Outdoor Condensing Units

SCROLL COMPRESSORS

Performance Data - Low Temperature (R-407A/ R-407F)

Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature								
		0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
MOZ020L6	ZF06K4E ¹	10,710	9,700	8,730	7,800	6,910	6,100	5,340	4,640	4,000
MOZ025L6	ZF08K4E ^{1,2}	12,760	11,590	10,450	9,380	8,350	7,380	6,480	5,640	4,870
MOZ030L6	ZF09K4E ¹	13,850	12,740	11,570	10,390	9,230	8,110	7,100	6,230	5,540
MOZ035L6	ZF11K4E ¹	16,260	15,040	13,730	12,410	11,060	9,760	8,560	7,520	6,700
MOZ045L6	ZF13K4E ¹	21,360	19,200	17,140	15,180	13,350	11,710	10,280	9,070	8,120
MOZ055L6	ZF15K4E ¹	25,310	22,740	20,370	18,130	16,070	14,210	12,600	11,230	10,160
MOZ060L6	ZF18K4E	29,350	26,560	23,840	21,310	18,950	16,790	14,880	13,240	11,940

Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature								
		0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
MOZ020L6	ZF06K4E ¹	10,330	9,350	8,420	7,530	6,690	5,900	5,160	4,490	3,870
MOZ025L6	ZF08K4E ^{1,2}	12,260	11,120	10,060	9,030	8,050	7,120	6,250	5,440	4,700
MOZ030L6	ZF09K4E ¹	13,350	12,280	11,190	10,060	8,940	7,860	6,870	6,020	5,340
MOZ035L6	ZF11K4E ¹	15,570	14,420	13,230	11,970	10,680	9,430	8,270	7,260	6,460
MOZ045L6	ZF13K4E ¹	20,610	18,480	16,500	14,600	12,850	11,280	9,910	8,760	7,890
MOZ055L6	ZF15K4E ¹	24,320	21,890	19,590	17,430	15,430	13,650	12,090	10,800	9,780
MOZ060L6	ZF18K4E	28,290	25,590	22,960	20,530	18,240	16,160	14,320	12,760	11,520

Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature								
		0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
MOZ020L6	ZF06K4E ¹	9,920	9,000	8,110	7,250	6,450	5,690	4,980	4,330	3,730
MOZ025L6	ZF08K4E ^{1,2}	11,730	10,660	9,650	8,670	7,730	6,840	6,010	5,230	4,520
MOZ030L6	ZF09K4E ¹	12,820	11,840	10,800	9,720	8,650	7,610	6,650	5,810	5,140
MOZ035L6	ZF11K4E ¹	—	—	—	—	10,270	9,100	7,990	7,000	6,220
MOZ045L6	ZF13K4E ¹	19,840	17,760	15,840	14,000	12,320	10,810	9,510	8,440	7,650
MOZ055L6	ZF15K4E ¹	23,350	21,000	18,780	16,680	14,760	13,040	11,560	10,320	9,370
MOZ060L6	ZF18K4E	27,200	24,590	22,060	19,710	17,510	15,500	13,740	12,240	11,060

Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature								
		0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
MOZ020L6	ZF06K4E ¹	9,070	8,240	7,430	6,660	5,920	5,230	4,580	3,980	3,430
MOZ025L6	ZF08K4E ^{1,2}	—	—	—	—	—	6,250	5,500	4,790	4,140
MOZ030L6	ZF09K4E ¹	—	—	—	—	—	—	6,210	5,420	4,770
MOZ035L6	ZF11K4E ¹	—	—	—	—	—	—	—	—	—
MOZ045L6	ZF13K4E ¹	18,170	16,250	14,420	12,720	11,170	9,800	8,640	7,740	7,100
MOZ055L6	ZF15K4E ¹	—	—	—	—	—	11,720	10,370	9,260	8,420
MOZ060L6	ZF18K4E	—	—	—	—	—	—	—	11,110	10,050

NOTE: The ZF compressor comes with liquid injection.

¹R-407F not available for 208-230/1/60 models.

²R-407A not available for 208-230/1/60 models.

1/2 To 6 HP Indoor & Outdoor Condensing Units

SCROLL COMPRESSORS

Performance Data - Low Temperature (R-407C)

Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature								
		0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
MOZ020L6	ZF06K4E	9,510	8,510	7,590	6,740	5,970	5,260	4,620	4,020	3,470
MOZ030L6	ZF09K4E	12,420	11,340	10,260	9,170	8,120	7,130	6,240	5,490	4,920
MOZ035L6	ZF11K4E	14,840	13,620	12,360	11,060	9,800	8,610	7,550	6,660	6,010
MOZ045L6	ZF13K4E	18,720	16,750	14,870	13,120	11,510	10,070	8,840	7,810	7,040
MOZ055L6	ZF15K4E	22,320	20,030	17,870	15,840	13,980	12,310	10,890	9,720	8,840
MOZ060L6	ZF18K4E	26,110	23,500	21,000	18,690	16,560	14,640	12,970	11,580	10,520

Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature								
		0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
MOZ020L6	ZF06K4E	9,230	8,270	7,380	6,570	5,820	5,130	4,510	3,920	3,380
MOZ030L6	ZF09K4E	12,050	11,010	9,970	8,910	7,900	6,940	6,070	5,330	4,760
MOZ035L6	ZF11K4E	14,330	13,170	11,950	10,720	9,510	8,360	7,330	6,460	5,820
MOZ045L6	ZF13K4E	18,160	16,230	14,380	12,670	11,110	9,730	8,540	7,570	6,850
MOZ055L6	ZF15K4E	21,630	19,400	17,270	15,310	13,510	11,900	10,520	9,400	8,570
MOZ060L6	ZF18K4E	25,330	22,790	20,350	18,100	16,030	14,170	12,560	11,230	10,220

Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature								
		0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
MOZ020L6	ZF06K4E	8,930	8,020	7,160	6,380	5,660	4,990	4,380	3,820	3,290
MOZ030L6	ZF09K4E	11,670	10,680	9,680	8,670	7,680	6,750	5,910	5,180	4,610
MOZ035L6	ZF11K4E	13,810	12,690	11,550	10,380	9,220	8,110	7,110	6,260	5,630
MOZ045L6	ZF13K4E	17,570	15,680	13,880	12,220	10,710	9,370	8,240	7,330	6,670
MOZ055L6	ZF15K4E	20,910	18,730	16,670	14,760	13,020	11,470	10,130	9,060	8,280
MOZ060L6	ZF18K4E	24,530	22,050	19,680	17,490	15,480	13,680	12,130	10,860	9,900

Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature								
		0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
MOZ020L6	ZF06K4E	8,300	7,460	6,690	5,960	5,300	4,680	4,110	3,580	3,070
MOZ030L6	ZF09K4E	-	-	-	-	-	6,380	5,580	4,890	4,330
MOZ035L6	ZF11K4E	-	-	-	-	-	-	-	5,880	5,270
MOZ045L6	ZF13K4E	16,330	14,530	12,840	11,260	9,860	8,630	7,620	6,820	6,270
MOZ055L6	ZF15K4E	19,340	17,280	15,380	13,560	11,930	10,490	9,260	8,280	7,580
MOZ060L6	ZF18K4E	-	-	-	-	-	12,620	11,190	10,020	9,160

NOTE: The ZF compressor comes with liquid injection.

Model MOZ025L6 (Comp. #: ZF08K4E) not compatible with R-407C

1/2 To 6 HP Indoor & Outdoor Condensing Units

SCROLL COMPRESSORS

Performance Data -Low Temperature Models (R-448A/449A)

Model	Compressor	Capacity BTUH @ 90°F Ambient Suction Temperature								
		0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
MOZ020L6	ZF06K4E	10,270	9,270	8,340	7,470	6,670	5,920	5,230	4,580	3,960
MOZ025L6	ZF08K4E	12,620	11,410	10,270	9,210	8,230	7,330	6,500	5,740	5,020
MOZ030L6	ZF09K4E	13,750	12,470	11,250	10,110	9,020	8,000	7,040	6,120	5,230
MOZ035L6	ZF11K4E	16,390	14,890	13,510	12,200	10,960	9,810	8,730	7,740	6,810
MOZ045L6	ZF13K4E	21,040	18,950	16,980	15,140	13,430	11,880	10,450	9,160	8,010
MOZ055L6	ZF15K4E	24,730	22,400	20,200	18,130	16,210	14,430	12,830	11,360	10,030
MOZ060L6	ZF18K4E	28,420	25,820	23,440	21,180	19,040	17,040	15,190	13,470	11,880

Model	Compressor	Capacity BTUH @ 95°F Ambient Suction Temperature								
		0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
MOZ020L6	ZF06K4E	10,000	9,020	8,110	7,270	6,490	5,760	5,080	4,440	3,830
MOZ025L6	ZF08K4E	12,220	11,050	9,960	8,930	7,980	7,110	6,310	5,560	4,870
MOZ030L6	ZF09K4E	13,340	12,090	10,920	9,810	8,770	7,780	6,860	5,970	5,110
MOZ035L6	ZF11K4E	15,770	14,390	13,060	11,800	10,620	9,510	8,480	7,510	6,630
MOZ045L6	ZF13K4E	20,210	18,200	16,310	14,550	12,930	11,460	10,120	8,920	7,850
MOZ055L6	ZF15K4E	23,710	21,490	19,400	17,430	15,600	13,920	12,410	11,020	9,780
MOZ060L6	ZF18K4E	27,260	24,800	22,550	20,400	18,380	16,500	14,770	13,140	11,660

Model	Compressor	Capacity BTUH @ 100°F Ambient Suction Temperature								
		0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
MOZ020L6	ZF06K4E	9,730	8,780	7,900	7,080	6,320	5,600	4,940	4,310	3,700
MOZ025L6	ZF08K4E	11,810	10,690	9,630	8,640	7,730	6,890	6,110	5,390	4,720
MOZ030L6	ZF09K4E	12,920	11,720	10,590	9,520	8,520	7,570	6,680	5,820	5,000
MOZ035L6	ZF11K4E	15,190	13,870	12,600	11,390	10,260	9,190	8,200	7,280	6,430
MOZ045L6	ZF13K4E	19,360	17,430	15,630	13,960	12,420	11,040	9,790	8,690	7,720
MOZ055L6	ZF15K4E	22,670	20,560	18,580	16,710	14,980	13,400	11,980	10,690	9,530
MOZ060L6	ZF18K4E	26,080	23,760	21,640	19,620	17,720	15,950	14,320	12,820	11,450

Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature								
		0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
MOZ020L6	ZF06K4E	9,230	8,340	7,510	6,740	6,020	5,340	4,700	4,090	3,510
MOZ025L6	ZF08K4E	10,960	9,920	8,950	8,040	7,190	6,410	5,690	5,020	4,390
MOZ030L6	ZF09K4E	12,060	10,960	9,920	8,940	8,010	7,140	6,320	5,540	4,790
MOZ035L6	ZF11K4E	13,960	12,760	11,620	10,500	9,470	8,520	7,630	6,790	6,020
MOZ045L6	ZF13K4E	17,610	15,860	14,240	12,750	11,420	10,220	9,170	8,270	7,520
MOZ055L6	ZF15K4E	20,490	18,610	16,850	15,200	13,660	12,300	11,070	9,970	9,000
MOZ060L6	ZF18K4E	23,570	21,620	19,760	18,000	16,350	14,820	13,430	12,160	11,020

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.)		
MOZ010M6	C	ZS09KAE	1/2	7/8	14	2	28-1/4	37-3/4	19-3/4	209	71
MOZ015M6	C	ZS13KAE	1/2	7/8	14	2	28-1/4	37-3/4	19-3/4	209	71
MOZ020M6	C	ZS15KAE	1/2	7/8	14	2	28-1/4	37-3/4	19-3/4	209	71
MOZ025M6	C	ZS19KAE	1/2	7/8	14	2	28-1/4	37-3/4	19-3/4	218	73
MOZ030M6	D	ZS21KAE	1/2	7/8	20	1	30-1/4	42-1/2	29-3/4	287	72
MOZ035M6	D	ZS26KAE	1/2	7/8	20	1	30-1/4	42-1/2	29-3/4	290	74
MOZ045M6	D	ZS29KAE	1/2	1-1/8	20	1	30-1/4	42-1/2	29-3/4	317	73
MOZ050M6	D	ZS33KAE	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.

1/2 To 6 HP Indoor & Outdoor Condensing Units

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.		
MOZ010M62	ZS09KAE-PFV	208-230	1	60	9.0	40.3	2	1/15	1.0	15	38	15	40	12.0	30
MOZ010M63	ZS09KAE-TF5	208-230	3	60	7.2	55.4	2	1/15	1.0	15	24	15	25	9.0	19
MOZ010M64	ZS09KAE-TFD	460	3	60	3.4	28.0	2	1/15	1.0	15	15	15	15	^	^
MOZ015M62	ZS13KAE-PFV	208-230	1	60	10.8	56.0	2	1/15	1.0	15	38	20	40	12.0	30
MOZ015M63	ZS13KAE-TF5	208-230	3	60	8.7	58.0	2	1/15	1.0	15	24	15	25	9.0	19
MOZ015M64	ZS13KAE-TFD	460	3	60	4.3	29.0	2	1/15	1.0	15	15	15	15	^	^
MOZ020M62	ZS15KAE-PFV	208-230	1	60	14.1	68.0	2	1/15	1.0	20	38	30	40	12.0	30
MOZ020M63	ZS15KAE-TF5	208-230	3	60	9.6	58.0	2	1/15	1.0	15	24	20	30	9.0	19
MOZ020M64	ZS15KAE-TFD	460	3	60	4.8	29.0	2	1/15	1.0	15	15	15	15	^	^
MOZ025M62	ZS19KAE-PFV	208-230	1	60	16.2	75.0	2	1/15	1.0	21	38	35	45	12.0	30
MOZ025M63	ZS19KAE-TF5	208-230	3	60	12.3	73.0	2	1/15	1.0	20	29	25	35	11.0	23
MOZ025M64	ZS19KAE-TFD	460	3	60	5.8	38.0	2	1/15	1.0	15	15	15	15	^	^
MOZ030M62	ZS21KAE-PFV	208-230	1	60	20.8	112.0	1	1/3	3.5	30	42	50	60	12.0	30
MOZ030M63	ZS21KAE-TF5	208-230	3	60	13.7	93.0	1	1/3	3.5	21	38	30	45	12.0	30
MOZ030M64	ZS21KAE-TFD	460	3	60	6.2	48.0	1	1/3	1.9	15	15	15	15	^	^
MOZ035M62	ZS26KAE-PFV	208-230	1	60	21.2	104.0	1	1/3	3.5	30	42	45	60	12.0	30
MOZ035M63	ZS26KAE-TF5	208-230	3	60	13.9	93.0	1	1/3	3.5	21	38	30	45	12.0	30
MOZ035M64	ZS26KAE-TFD	460	3	60	6.2	48.0	1	1/3	1.9	15	15	15	15	^	^
MOZ045M62	ZS29KAE-PFV	208-230	1	60	23.4	137.0	1	1/3	3.5	33	59	50	60	11.0	47
MOZ045M63	ZS29KAE-TF5	208-230	3	60	18.4	114.0	1	1/3	3.5	27	44	40	50	12.0	35
MOZ045M64	ZS29KAE-TFD	460	3	60	8.4	58.0	1	1/3	1.9	15	29	20	35	11.0	23
MOZ050M62	ZS33KAE-PFV	208-230	1	60	23	146	1	1/3	3.5	32	59	50	60	12.0	47
MOZ050M63	ZS33KAE-TF5	200-230	3	60	20	114	1	1/3	3.5	29	44	45	60	12.0	35
MOZ050M64	ZS33KAE-TFD	460	3	60	9	52	1	1/3	1.9	15	29	20	30	10.0	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)

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

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

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

Model	Compressor	Capacity BTUH @ 110°F Ambient Suction Temperature					
		25°F	20°F	15°F	10°F	5°F	0°F
MOS010M6	KAR-010E	7,740	7,000	6,350	5,720	5,120	4,600
MOS020M6	KAK-020E	14,290	12,790	11,500	10,380	9,360	8,410
MOS021M6	ERC-021E	15,840	14,610	12,600	11,850	10,470	9,180
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)

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

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

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

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

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.)		
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.

SEMI-HERMETIC COMPRESSORS Electrical Data

Model	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.		
MOS010M62	KARB-010E-CAV	208-230	1	60	6.4	40.0	1	1/15	0.5	15	20	15	20	7.0	15
MOS010M63	KARA-010E-TAC	208-230	3	60	3.8	27.0	1	1/15	0.5	15	20	15	20	9.0	15
MOS020M62	KAKB-021E-CAV	208-230	1	60	9.1	55.0	2	1/15	1.0	15	24	20	25	6.0	19
MOS020M63	KAKA-020E-TAC	208-230	3	60	5.8	50.0	2	1/15	1.0	15	24	15	25	9.0	19
MOS021M63	ERCA-021E-TAC	208-230	3	60	7.9	46.0	2	1/15	1.0	15	24	15	25	9.0	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	12.0	30
MOS030M64	ERFA-031E-TAD	460	3	60	5.2	41.0	1	1/3	1.9	15	15	15	15	^	^
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

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

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 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 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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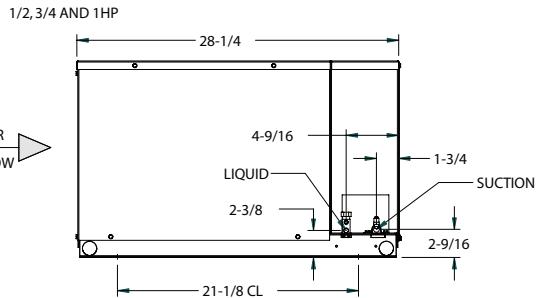
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1/2 To 6 HP Indoor & Outdoor Condensing Units

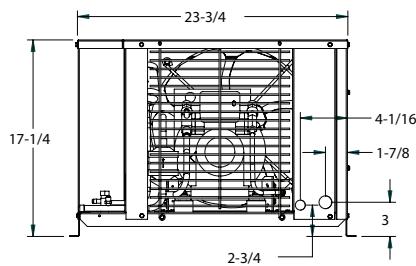
Dimensional Drawings

OUTDOOR

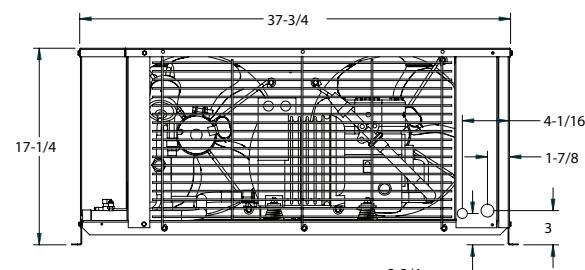
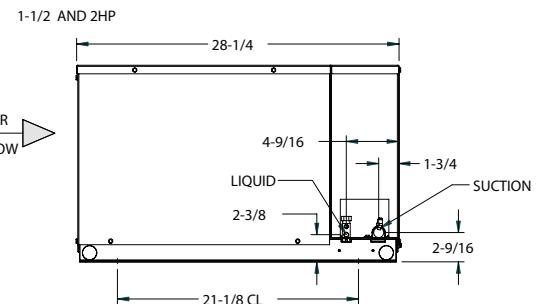
LEFT VIEW



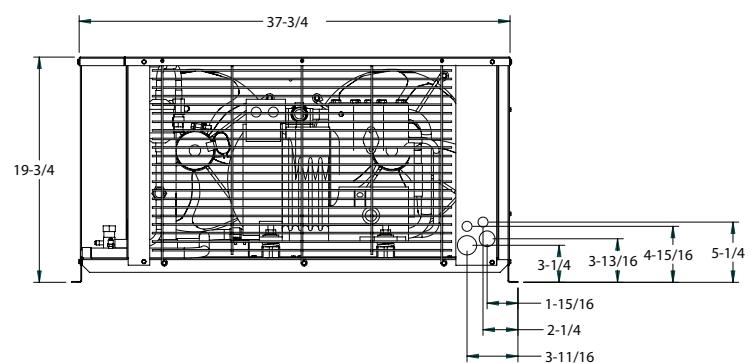
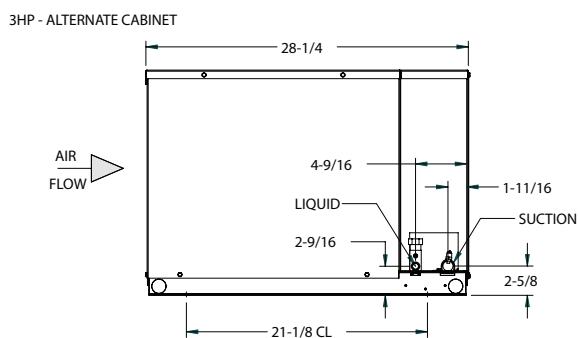
FRONT VIEW



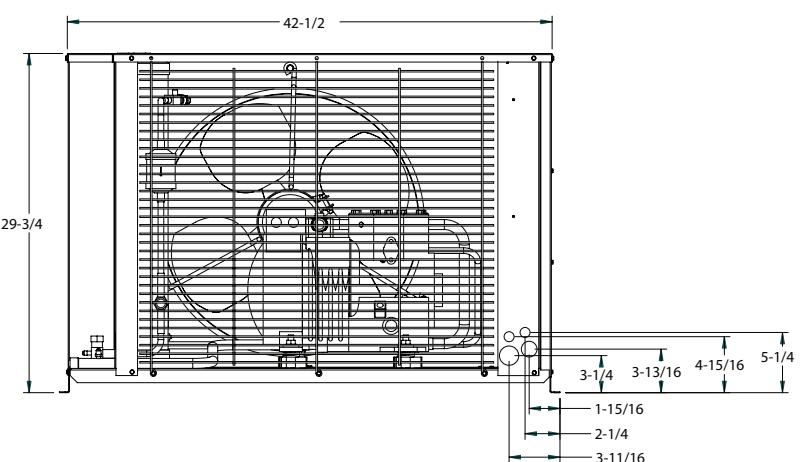
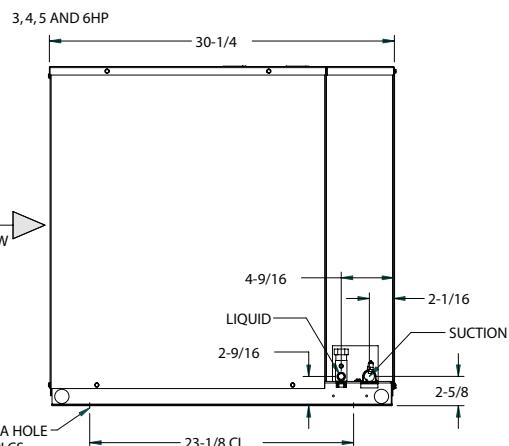
A



B



C



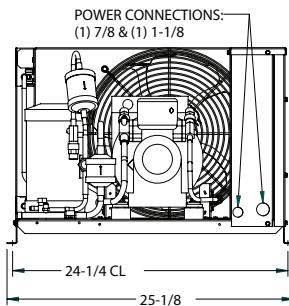
D

1/2 To 6 HP Indoor & Outdoor Condensing Units

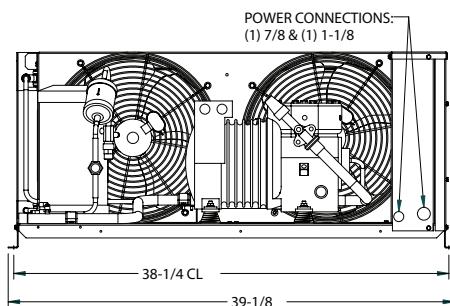
INDOOR

FRONT VIEW

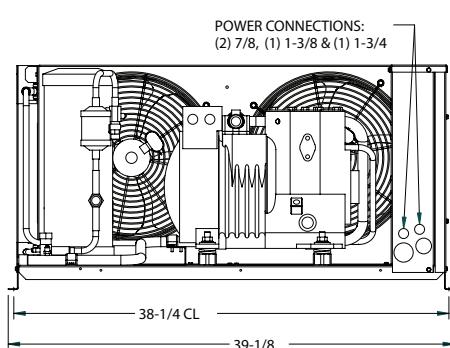
A



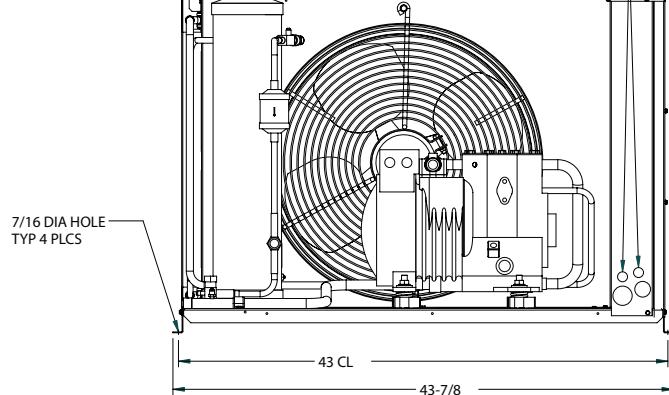
B



C



D



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PRO³ Top Mount & Side Mount Packaged Refrigeration Systems

Technical Guide

Models PTN | PTT | PST

For Indoor and Outdoor Applications



BOHN

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Heatcraft BOHN 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. BOHN products reduce costs, improve bottom line, 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.

Top Mount

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	# = BTUH X 100	H = High/Medium	6 = R-404A	A = 115/1/60	H = PSC
			T = Outdoor	L = Low		B = 208-230/1/60	E = EC (evap. only)
				M = Medium w/electric defrost		C = 208-230/3/60	

Side Mount

Nomenclature							
P	S	T	072	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	6 = R-404A	B = 208-230/1/60	H = PSC
				L = Low			E = EC (evap. only)
				M = Medium w/electric defrost			

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.



PRO³ Top Mount Installed



NSF listing applies to evaporator grill portion.



PRO³



PRO³ Side Mount Installed

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

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.

High Temperature Model	EC vs PSC Motors	Medium Temperature Model	EC vs PSC Motors	Low Temperature Model	EC vs PSC Motors
PTN 026H6	\$13	PTN 024M6	\$13	PT*021L6	\$18-\$30
PTN 031H6	\$13	PTN 029M6	\$13	PT*031L6	\$60
PTN 042H6	\$13	PTN 040M6	\$13	PT*044L6	\$60
PT* 050H6	\$23-\$32	PT* 047M6	\$23-\$32	PT*052L6	\$91
PT* 067H6	\$65	PT* 063M6	\$65	PT*069L6	\$91
PT* 076H6	\$65	PT* 072M6	\$65	[†] Savings are calculated using a cost of \$.09/kWh	
PT* 104H6	\$97	PT* 099M6	\$97	* T For Outdoor, N for Indoor.	
PT* 133H6	\$97	PT* 128M6	\$97		

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									
PTN026H6	35° F	38° F	35° F	38° F	35° F	38° F	35° F	38° F	35° F	38° F
PTN031H6	2,970	3,100	2,730	2,860	2,610	2,740	2,470	2,600	2,230	2,340
PTN042H6	3,590	3,750	3,300	3,450	3,160	3,310	2,980	3,140	2,390	2,820
PT*050H6	4,950	5,170	4,560	4,760	4,360	4,570	4,110	4,330	3,710	3,890
PT*067H6	5,820	6,080	5,350	5,600	5,120	5,370	4,830	5,080	4,360	4,570
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									
PTN024M6	35° F	35° F	35° F	35° F	35° F	35° F	35° F	35° F	35° F	35° F
PTN029M6	2,970	2,730	2,610	2,470	2,230	2,340	2,980	3,140	2,390	2,820
PTN040M6	3,590	3,300	3,160	2,980	2,600	2,740	3,140	3,310	2,390	2,820
PT*047M6	4,950	4,560	4,360	4,110	3,710	3,890	4,360	4,570	3,710	3,890
PT*063M6	5,820	5,350	5,120	4,830	4,360	4,570	5,080	5,370	4,360	4,570
PT*072M6	8,610	7,890	7,500	7,100	6,270	6,540	6,810	7,100	6,270	6,540
PT*099M6	12,990	11,800	11,190	10,550	9,260	9,840	11,200	11,810	9,260	9,840
PT*128M6	14,780	13,530	12,790	12,040	10,740	11,310	12,750	13,500	10,740	11,310

*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	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^	RST70C1E	208-230/1/60	9.7	15	8.63	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^	RST70C1E	208-230/1/60	9.7	15	8.63	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^	CS10K6E	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

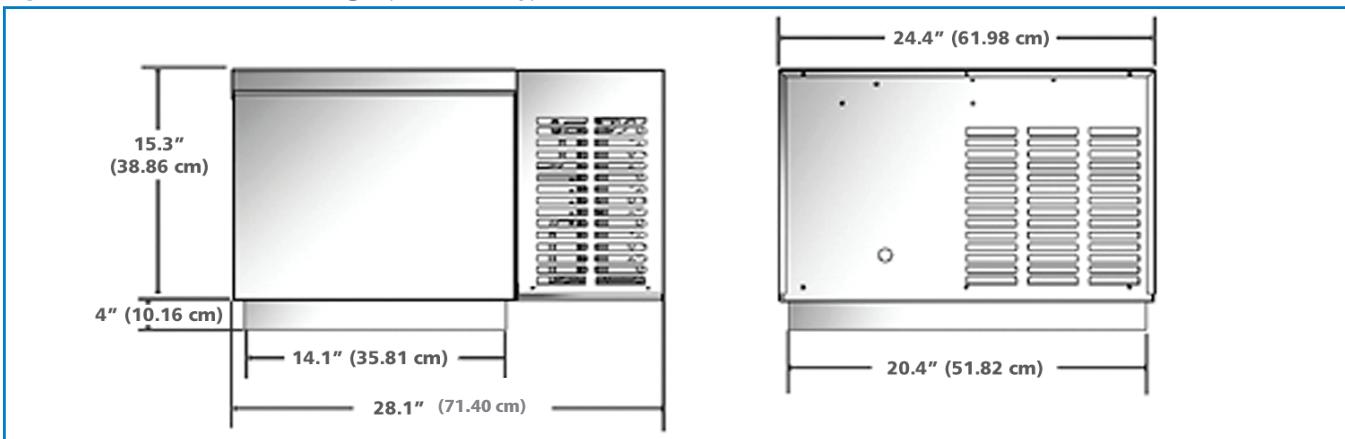
*T For Outdoor, N for Indoor.

² Plug Supplied on Indoor models only.

¹ See dimensions page 6.

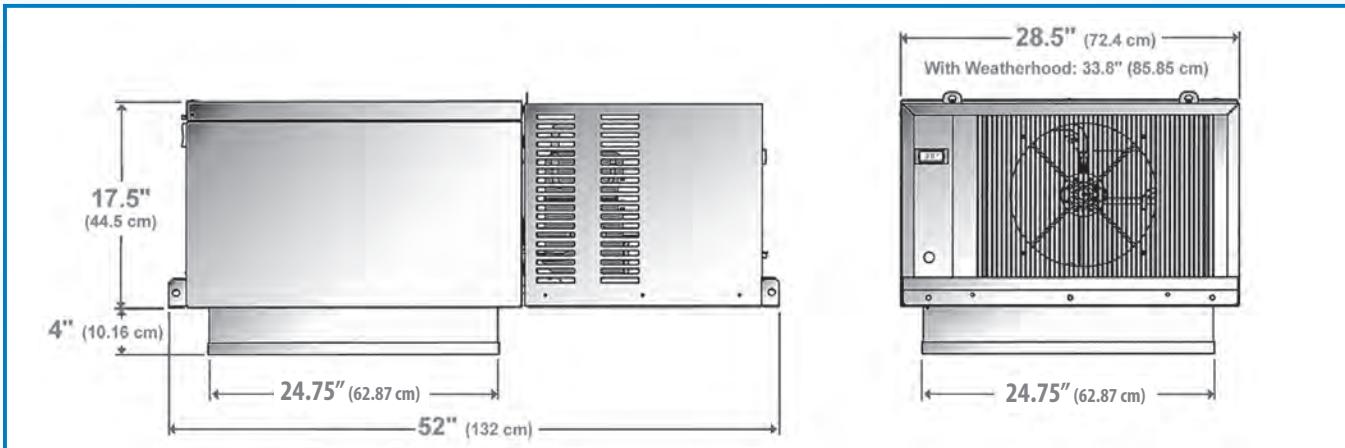
PRO³ TOP MOUNT | DIMENSIONS

Figure A Small Cabinet Design (indoor only)



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

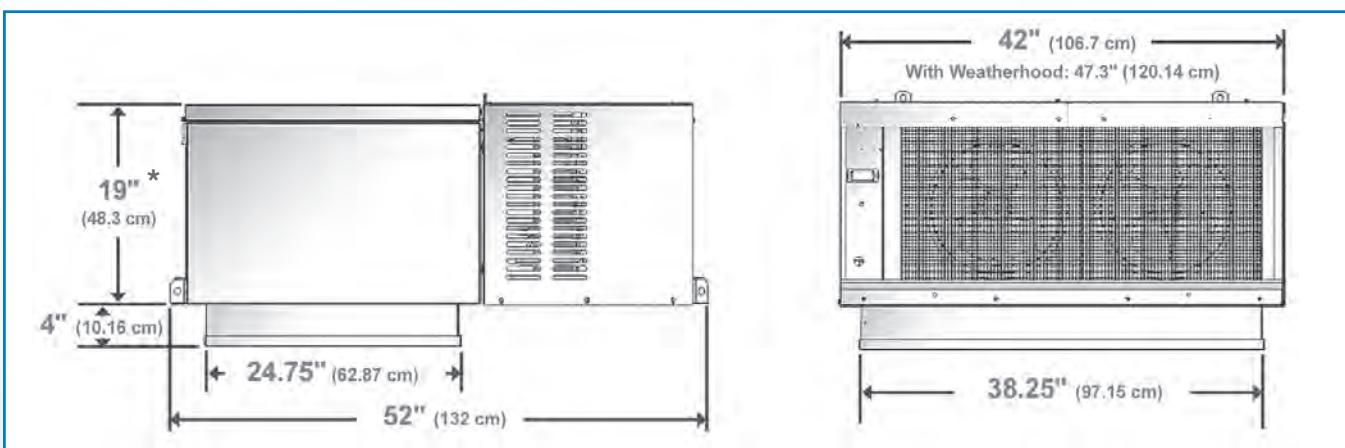
Figure B Medium Cabinet Design



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	D	260	118
PST090H6B*	RST70C1E	208-230/1/60	15.0	20.0	625	D	265	120
PST131H6B*	CS10K6E	208-230/1/60	15.0	20.0	1,350	E	320	145
PST147H6B*	CS12K6E	208-230/1/60	15.0	20.0	1,350	E	325	148
PST066M6B*	RST64C1E	208-230/1/60	15.0	20.0	625	D	260	118
PST086M6B*	RST70C1E	208-230/1/60	15.0	20.0	625	D	265	120
PST124M6B*	CS10K6E	208-230/1/60	15.0	20.0	1,350	E	320	145
PST141M6B*	CS12K6E	208-230/1/60	15.0	20.0	1,350	E	325	148
PST034L6B*	CF04K6E	208-230/1/60	15.0	20.0	625	D	260	118
PST051L6B*	CF06K6E	208-230/1/60	15.0	20.0	625	D	265	120
PST057L6B*	CF06K6E	208-230/1/60	15.0	20.0	1,350	E	320	145
PST077L6B*	CF09K6E	208-230/1/60	20.7	35.0	1,350	E	325	148

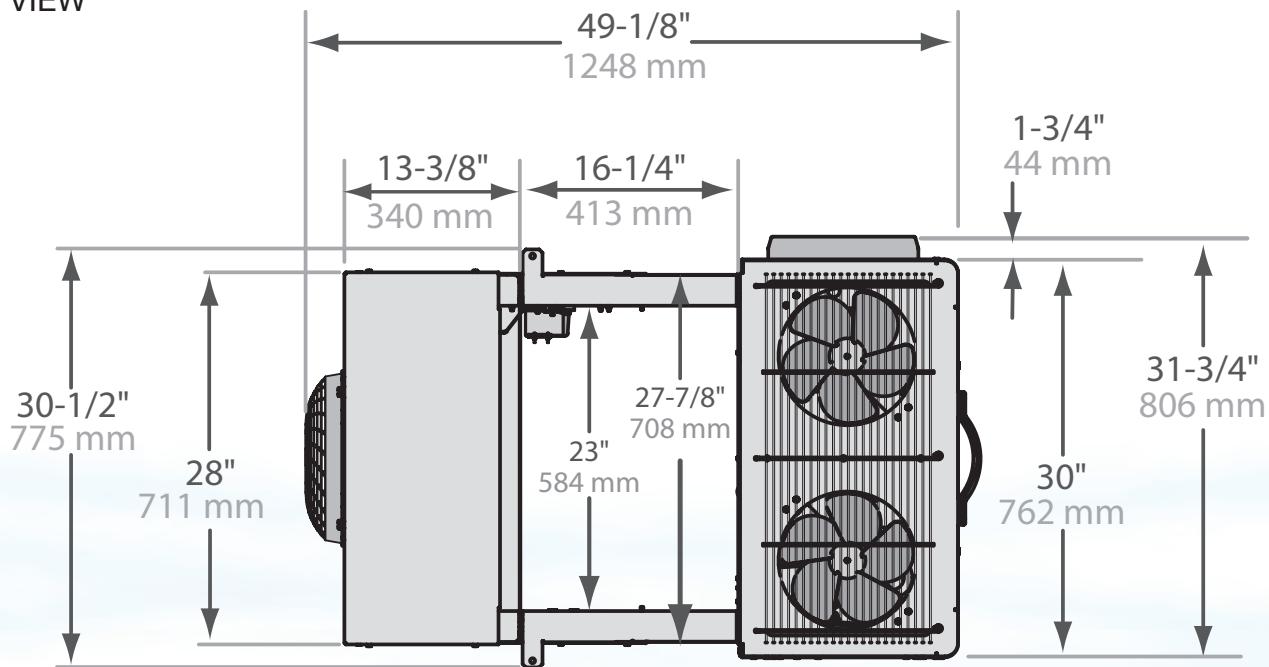
* *H* for PSC, *E* for EC motor on evaporator section only.

¹ See dimensional diagrams, page 8 and 9.

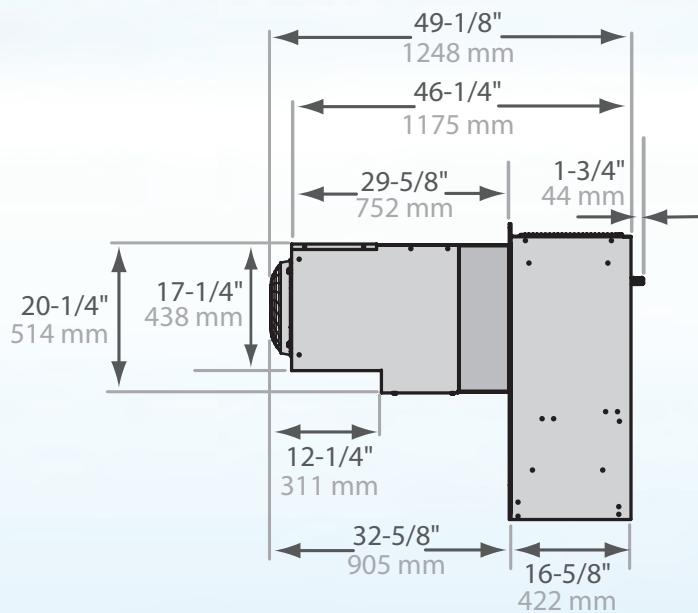
PRO³ SIDE MOUNT | DIMENSIONS

Figure D Model PST | Small Cabinet

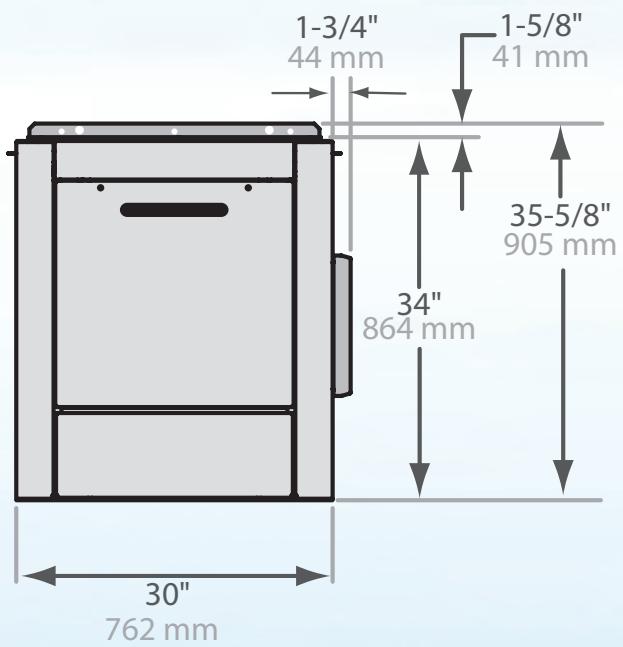
TOP VIEW



SIDE VIEW



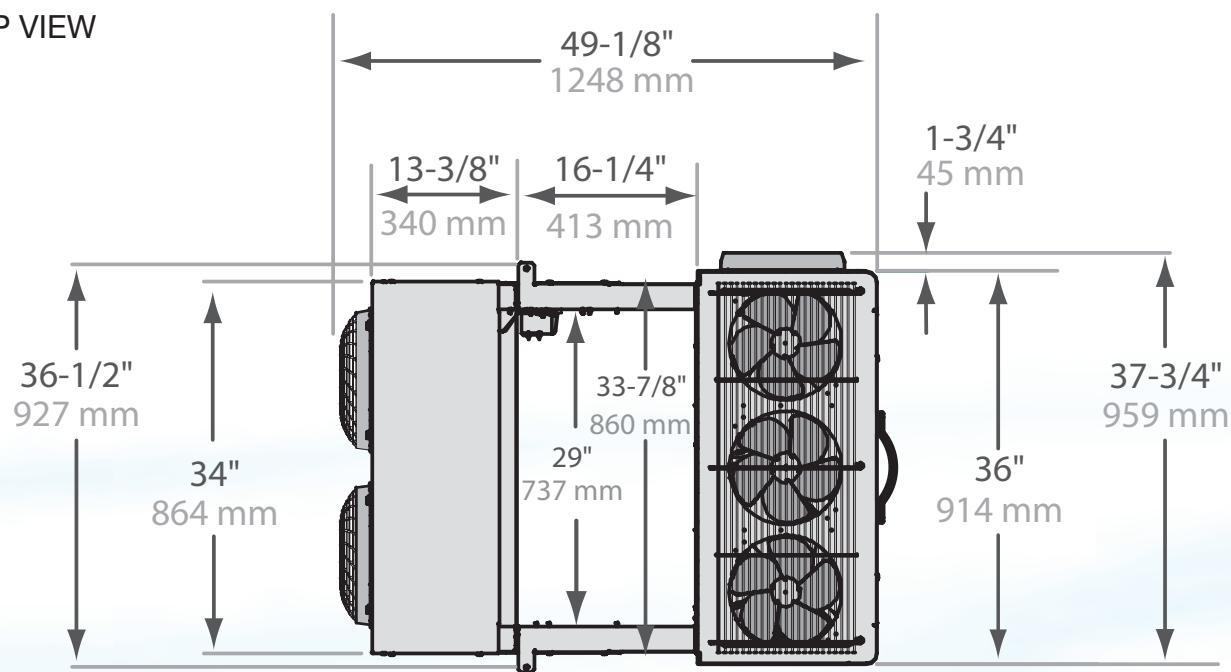
BACK VIEW



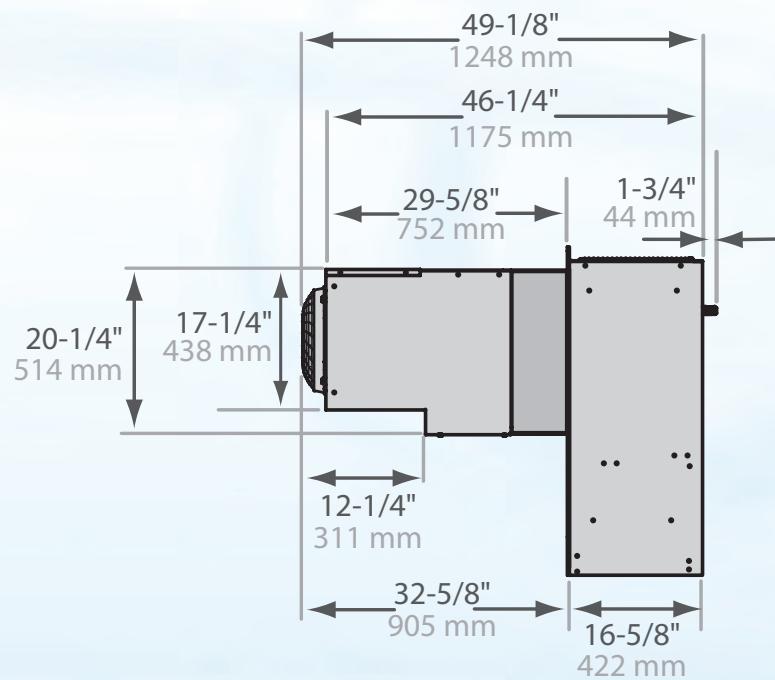
PRO³ SIDE MOUNT | DIMENSIONS

Figure E Model PST | Large Cabinet

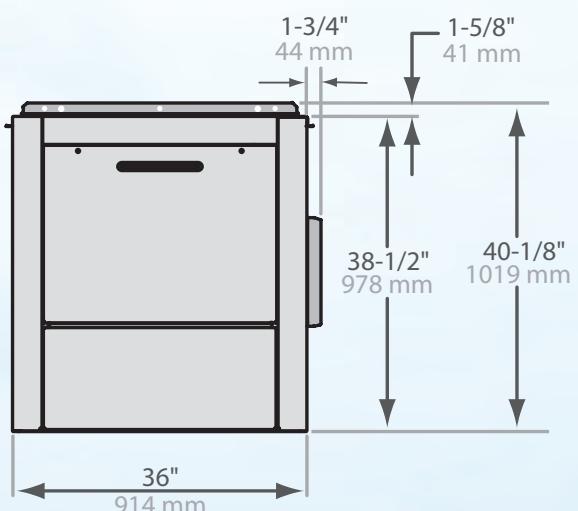
TOP VIEW



SIDE VIEW



BACK VIEW



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 brands are built — backed by a dedicated team to serve every customer need, delivering at the best lead times in the industry.

Dependable. Versatile. Courteous.

Finally, one simple source for all your replacement needs from a name you can trust.

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

Part Description	Part Number	PRO ³ Top Mount Indoor Models																															
		High Temp						Med Temp						Low Temp																			
		PTN026H6A^	PTN031H6A^	PTN042H6A^	PTN050H6A^	PTN024M6A^	PTN029M6A^	PTN040M6A^	PTN047M6A^	PTN019L6A^	PTN021L6A^	PTN024M6A^	PTN029M6A^	PTN040M6A^	PTN047M6A^	PTN047M6B^	PTN063M6B^	PTN072M6B^	PTN089M6B^	PTN099M6C^	PTN128M6B^	PTN128M6C^	PTN019L6A^	PTN021L6A^	PTN031L6B^	PTN044L6B^	PTN052L6C^	PTN069L6B^	PTN069L6C^				
Fan Blades	Evaporator	22901901			1	1	2	2	3	3	3				1	1	1	1	2	2	3	3	3	1	1	1	1	2	2	2			
	Evaporator	23100501	1	1	1							1	1	1										1									
Fan Motors	Condenser	22900701			1	1	1	1	1	2	2	2			1	1	1	1	1	2	2	2	2	2	1	1	1	1	2	2	2		
	Condenser	22900601	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		
	Evaporator (115V)*	25319301	1	1	1	1	1	1	1	1						1								1									
Fan Motors	Evaporator (115V)*	25319401				1				1	1	1	1	1										1									
	Condenser (208-230V)	25307801																1	1	1	2	2	2	2	1	1	1	1	2	2	2		
Fan Motors	Condenser (115V)*	25308501	1	1	1	1	1	1	1	1	1	1					1							1									
	Evap Fan Motor Bracket	4000104				1	1	2	2	3	3	3					1	1	2	2	3	3	3	3	1	1	2	2	3	3	3		
Fan Motors	Evap Fan Motor Bracket	23101401	1	1	1							1	1	1										1									
	Cond Fan Motor Bracket	23103301				1	1	1	1	1	2	2	2					1	1	1	1	2	2	2	2	1	1	1	1	2	2	2	
Fan Motors	Cond Fan Motor Bracket	23101101	1	1	1						1	1	1											1									
Contactors	25A, 208-230	2259996									1															1	1						
	20A, 115V	2252303	1	1	1	1					1	1	1	1	1										1	1							
Temperature Control	20A, 230V	R034915200					1	1	1	1	1	1	1					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	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	1	
Temperature Control	Temp Control (115V)	21301101	1	1	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		
Defrost Heaters	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		
	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		
Defrost Heaters	Defrost Heaters (115V)	24751901									1	1	1										1										
	Defrost Heaters (115V)	24712101															1							3									
Defrost Heaters	Defrost Heaters (230V)	4312F															3	3	3					3	3	3							
	Defrost Heaters (230V)	4313F															3	3	3	3				3	3	3	3						

REPLACEMENT PARTS

Part Description		Part Number	Med Temp												Low Temp								
			PTT050H6B^	PTT067H6B^	PTT076H6B^	PTT104H6B^	PTT104H6C^	PTT133H6B^	PTT133H6C^	PTT047M6B^	PTT063M6B^	PTT072M6B^	PTT099M6B^	PTT099M6C^	PTT128M6B^	PTT128M6C^	PTT021L6B^	PTT031L6B^	PTT044L6B^	PTT052L6B^	PTT052L6C^	PTT069L6B^	PTT069L6C^
Fan Blades	Evaporator	22901901	1	2	2	3	3	3	3	1	2	2	3	3	3	3	1	2	2	3	3	3	
	Condenser	22900701	1	1	1	2	2	2	2	1	1	1	2	2	2	2	1	1	1	1	2	2	
Fan Motors	Evaporator (208-230V)*	25319501	1	2	2	3	3	3	3	1	2	2	3	3	3	3	1	2	2	3	3	3	
	Condenser (208-230V)*	25308601	1	1	1	2	2	2	2	1	1	1	2	2	2	2	1	1	1	1	2	2	
	Evap Fan Motor Bracket	4000104	1	2	2	3	3	3	3	1	2	2	3	3	3	3	1	2	2	3	3	3	
	Cond Fan Motor Bracket	23103301	1	1	1	2	2	2	2	1	1	1	2	2	2	2	1	1	1	1	2	2	
Contactors	25A, 208-230	2259996				1	1						1	1						1	1		
	20A, 115V	2252303																					
	20A, 230V	R034915200	1	1	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	
	Temp Control (115V)	21301101																					
	Room Temp Sensor	28913702	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	
	Heater Limit Thermostat	5708L	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				3	3	3	3	3	3	3	3	3	
	Defrost Heaters (230V)	4313F																	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	
	Fan Temp Control	5521R				1	1	1	1				1	1	1	1	1			1	1	1	1
	Drain Line Heater	24753401	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	
	Weatherhood Medium	50047901	1	1						1	1						1	1	1				
	Weatherhood Large	50047801								1	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 25319501 = 25308601, part 25308601 = 25308601. Contact InterLink Parts at 800-686-7278.

REPLACEMENT PARTS

Part Description		Part Number	PRO ³ Side Mount Models										
			Coolers				Coolers w/ electric defrost				Freezers		
		PST070H6B ^A	PST090H6B ^A	PST131H6B ^A	PST147H6B ^A	PST066M6B ^A	PST086M6B ^A	PST124M6B ^A	PST141M6B ^A	PST034L6B ^A	PST051L6B ^A	PST057L6B ^A	PST077L6B ^A
Fan Blades	Evaporator	5140C	1	1	2	2	1	1	2	2	1	1	2
	Condenser	22901901	2	2	3	3	2	2	3	3	2	2	3
Fan Motors	Evaporator, PSC – 208/230 volt	25308601	1	1	2	2	1	1	2	2	1	1	2
	Evaporator, EC – 208/230 volt	25317701	1	1	2	2	1	1	2	2	1	1	2
	Condenser – 208/230 volt	25308301	2	2	3	3	2	2	3	3	2	2	3
	Evaporator fan motor bracket	23103301	1	1	2	2	1	1	2	2	1	1	2
	Condenser fan motor bracket	4000104	2	2	3	3	2	2	3	3	2	2	3
Contactors	30A, 230 volt	2252330	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
	Heater limit thermostat	5708L					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
Outdoor Parts	Fan pressure control	28917301	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
	Drain line heater	24753401	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

Notes

Notes

Notes



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Phone: 800.537.7775 • Fax: 770.465.5900
heatcraftrpd.com

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

BN-PROTB-0115 | Version 001

BOHN

Copeland™ F-Line

Air-cooled and water-cooled condensing units



Product Information

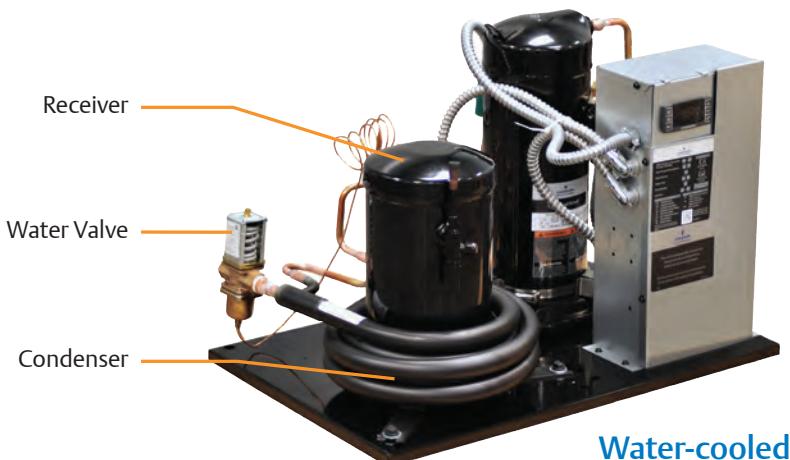
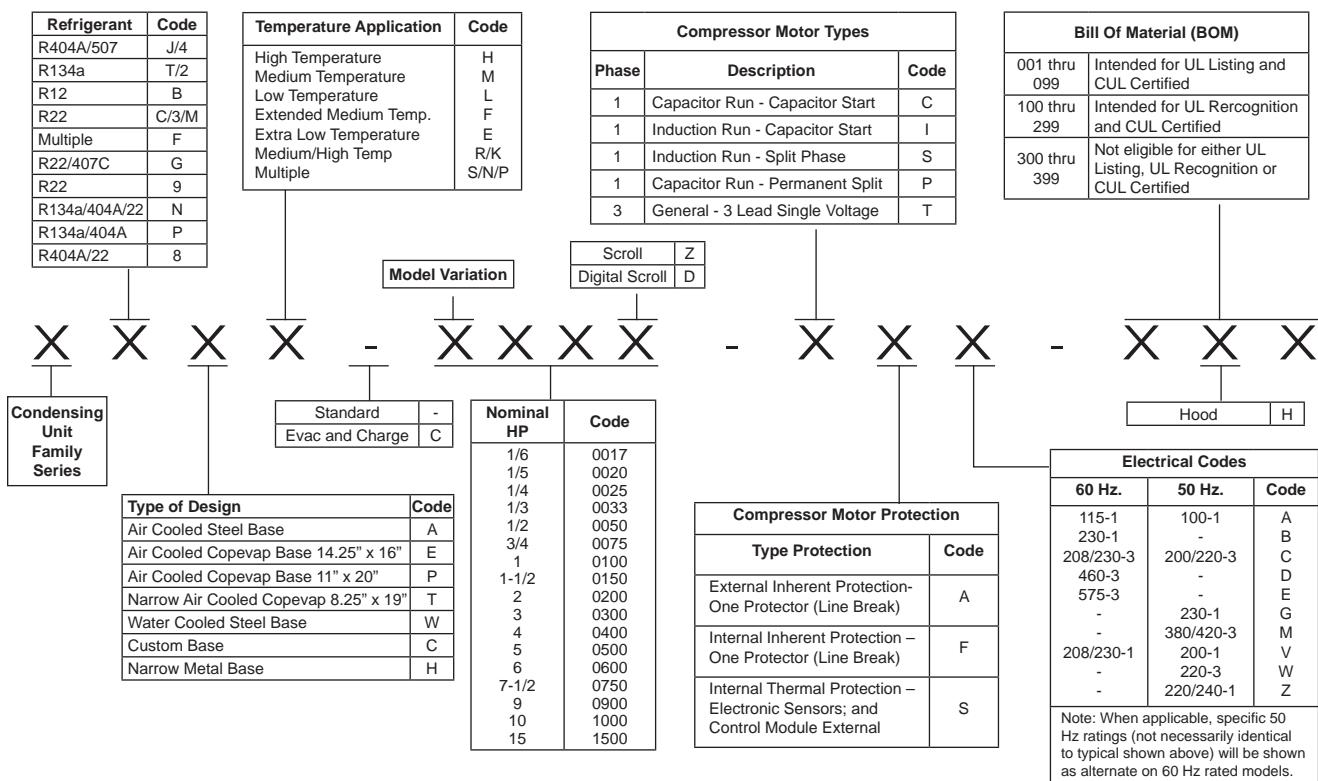
Horsepower: 1-10

Refrigerants: R-22, R-134a, R-404A, R-407A, R-407C



EMERSON™

Nomenclature • Welded Condensing Units



Bill of Materials Matrix

BOM		Options												UL							
		Flare (Obsolete)	Sweat	Receiver W/ Valve	Suction Valve	Liquid Base Valve	Fan Guard	End Covers	Conduit	Power Cord	Accumulator†	Fan Cycling	Pressure Controls	Filter Drier	Moisture Indicator	Solenoid Valve	Crankcase Heater	Head Pressure Control Valve	Water Valve	CoreSense	Listed
Air Cooled																					
106				X						X											X
	007	X				X	X	X													X
010	015	X	X		X	X	X				X	X					X			X	
	017		X	X	X	X	X	X												X	
	018				X	X	X													X	
001**	020	X	X			X	X	X												X	
	070	X				X	X	X			X			X	X					X	
	071	X				X	X	X			X	X		X	X	X				X	
	072	X				X	X	X						X	X					X	
	073	X				X	X	X			X			X	X	X	X			X	
	074	X				X	X	X						X	X	X				X	
	075	X				X	X	X						X	X		X	X		X	
	081	X				X	X	X			X	X		X	X		X		X	X	
	102									X										X	
109	103	X	X							X										X	
	108/908					X	X			X										X	
105	111		X	X						X										X	
	118/918	X‡				X	X			X										X	
	119	X								X										X	
203/204	208		X	X	X	X	X	X												X*	
201	212	X	X			X	X	X												X*	
	214					X	X	X												X*	
	216	X				X	X	X												X*	
	272	X				X	X	X						X	X					X*	
Water Cooled																					
001**	020	X	X					X										X		X	

* These recognized models are identical to the UL Listed models except without pressure control.

Need for the control is to be evaluated in the end use application.

**C-Line, W-Line, and FNAR products with a -001 BOM have sweat connections.

† Some units with Scroll compressors may have accumulators regardless of BOM.

‡ Receiver without valve.

BOMs with 4 or 6 as the middle digit are OEM special units.

Copeland Scroll™ air-cooled and water-cooled condensing units

Features

Benefits

Copeland Scroll Compressor

Reliability

Advance Diagnostics and Protection Features

High Energy Efficiency

Low Sound & Vibration

Factory Installed EK Filter Drier & HMI Moisture Indicator

Faster Trouble Shooting
Warranty Reduction

Less Leaks, Reduce Callbacks, Lower Installation Cost,
Increase Equipment Reliability, Lower Warranty

Aluminum/Copper Condenser Design

Durability

Multi Refrigerant Approval for High/Med Models

Application Flexibility
Inventory Consolidation

Register for
more product
information



For more information, visit EmersonClimate.com and login to the Customer Portal to view Online Product Information

R-404A Low Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	Chassis	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25
90° Ambient														
FPAK-010Z	ZS09KAE	A	3410	3830	4290	4770	5290	5840	6410					
FFAP-015Z	ZS09KAE	B	3520	3980	4470	5010	5600	6230	6900	7660	8460	9320	10200	11200
FPAK-012Z	ZS11KAE	A	3950	4430	4940	5490	6060	6670	7290					
FFAP-017Z	ZS11KAE	B	4100	4630	5200	5820	6490	7210	7970	8830	9730	10700	11700	12800
FFAP-018Z	ZS13KAE	B	4720	5310	5960	6650	7400	8200	9040	9980	11000	12000	13100	14300
FFAP-020Z	ZS13KAE	C	4780	5390	6060	6780	7560	8410	9300	10300	11400	12500	13700	15000
FPAK-013Z	ZS15KAE	B	5680	6390	7150	7970	8850	9780	10800					
FFAP-022Z	ZS15KAE	C	5810	6560	7370	8250	9210	10200	11300	12600	13900	15200	16700	18300
FPAK-015Z	ZS19KAE	B	6310	7090	7930	8810	9760	10800	11800					
FFAP-030Z	ZS19KAE	C	6550	7400	8330	9340	10400	11600	12900	14300	15900	17500	19300	21100
FPAK-020Z	ZS21KAE	C	8520	9580	10700	12000	13300	14700	16100					
FFAP-032Z	ZS21KAE	C	8610	9720	10900	12200	13600	15100	16700	18500	20400	22400	24600	26900
FFAP-040Z	ZS26KAE	D	9810	11100	12500	14100	15700	17600	19600	21800	24200	26700	29500	32500
FPAK-039Z	ZS29KAE	C	10800	12100	13600	15200	16900	18700	20500					
FFAP-042Z	ZS33KAE	D	12200	13800	15500	17400	19500	21700	24200	26800	29700	32800	36100	39600
FFAP-050Z	ZS38K4E	D	14600	16400	18400	20500	22700	25100	27700	30500	33400	36500	39800	43200
100° Ambient														
FPAK-010Z	ZS09KAE	A	3560	3960	4390	4850	5340	5830						
FFAP-015Z	ZS09KAE	B	3710	4160	4650	5180	5750	6350	7040	7760	8530	9370	10300	
FPAK-012Z	ZS11KAE	A	4100	4560	5030	5540	6070	6600						
FFAP-017Z	ZS11KAE	B	4310	4830	5390	5990	6640	7320	8090	8900	9770	10700	11700	
FFAP-018Z	ZS13KAE	B	4950	5530	6150	6820	7540	8270	9120	10000	10900	11900	13000	
FFAP-020Z	ZS13KAE	C	5020	5630	6280	6990	7750	8550	9450	10400	11400	12500	13700	
FPAK-013Z	ZS15KAE	B	5940	6630	7360	8140	8970	9820						
FFAP-022Z	ZS15KAE	C	6110	6860	7650	8510	9450	10400	11500	12700	14000	15300	16700	
FPAK-015Z	ZS19KAE	B	6580	7330	8120	8960	9850	10800						
FFAP-030Z	ZS19KAE	C	6120	6900	7750	8670	9660	10700	11900	13200	14600	16000	17600	19400
FPAK-020Z	ZS21KAE	C	8910	9940	11000	12200	13400	14700						
FFAP-032Z	ZS21KAE	C	9050	10100	11300	12600	13900	15300	17000	18700	20500	22400	24500	
FFAP-040Z	ZS26KAE	D	9190	10400	11700	13100	14600	16300	18100	20100	22300	24600	27100	29900
FPAK-039Z	ZS29KAE	C	11300	12600	14000	15500	17200	18800						
FFAP-042Z	ZS33KAE	D	11400	12900	14500	16200	18100	20100	22300	24700	27300	30100	33100	36400
FFAP-050Z	ZS38K4E	D	15200	16900	18800	20900	23000	25300	27900	30500	33300	36300	39400	
110° Ambient														
FPAK-010Z	ZS09KAE	A			3960	4350	4760	5180						
FFAP-015Z	ZS09KAE	B	3410	3820	4250	4720	5220	5750	6360	7000	7680	8430	9220	
FPAK-012Z	ZS11KAE	A				4930	5380	5820						
FFAP-017Z	ZS11KAE	B			4420	4910	5440	6010	6600	7290	8000	8770	9590	10500
FFAP-018Z	ZS13KAE	B			5040	5580	6170	6790	7420	8170	8930	9740	10600	11600
FFAP-020Z	ZS13KAE	C			5150	5730	6350	7020	7720	8520	9360	10300	11200	12300
FPAK-013Z	ZS15KAE	B			6020	6650	7330	8040	8770					
FFAP-022Z	ZS15KAE	C	5630	6290	6990	7750	8580	9430	10400	11500	12600	13800	15000	
FPAK-015Z	ZS19KAE	B			7310	8030	8790	9560						
FFAP-030Z	ZS19KAE	C			7110	7930	8810	9770	10800	11900	13200	14500	15900	17400
FPAK-020Z	ZS21KAE	C			9040	10000	11000	12100	13200					
FFAP-032Z	ZS21KAE	C			9270	10300	11400	12600	13800	15300	16800	18400	20100	22000
FFAP-040Z	ZS26KAE	D	9600	10800	12000	13400	14900	16500	18300	20200	22300	24600	27100	
FPAK-039Z	ZS29KAE	C	11500	12700	14000	15400	16900							
FFAP-042Z	ZS33KAE	D	11900	13300	14900	16500	18400	20300	22500	24800	27300	30000	32900	
FFAP-050Z	ZS38K4E	D	13800	15400	17100	18900	20800	22800	25100	27500	30000	32700	35500	

* See pages 12 and 13 for chassis size comparison

Capacities rated at 40°F return gas (65°F return gas for capacities in bold), 5°F subcooling

R-404A Medium/High Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	0	5	10	15	20	25	30	35	40	45
90° Ambient											
FFAP-015Z	ZS09KAE	6900	7660	8460	9320	10200	11500	12400	13400	14500	15600
FFAP-017Z	ZS11KAE	7970	8830	9730	10700	11700	13100	14300	15500	16900	18500
FFAP-018Z	ZS13KAE	9040	9980	11000	12000	13100	14600	15800	17000	18200	19500
FFAP-020Z	ZS13KAE	9300	10300	11400	12500	13700	15300	16600	17900	19200	20600
FFAP-022Z	ZS15KAE	11300	12600	13900	15200	16700	18900	20600	22500	24400	26800
FFAP-030Z	ZS19KAE	12900	14300	15900	17500	19300	21600	23500	25400	27500	29600
FFAP-032Z	ZS21KAE	16700	18500	20400	22400	24600	27900	30500	33300	36400	39700
FFAP-040Z	ZS26KAE	19600	21800	24200	26700	29500	34200	37500	41000	44800	49500
FFAP-042Z	ZS33KAE	24200	26800	29700	32800	36100	40800	44800	49100	54000	59000
FFAP-050Z	ZS38K4E	27700	30500	33400	36500	39800	45400	49300	53500	57500	62000
FJAM-A60Z	ZB45KCE	33100	36600	40300	44100	48200	52400				
FNAR-070Z	ZB50KCE	37700	42200	46800	51500	56500	61700	67200	72900	78800	85000
FPAN-070Z	ZB50KCE	38200	42700	47300	52100	57100	62400				
FNAR-080Z	ZB58KCE	40700	45600	50500	55600	60900	66400	72000	77800	83600	89600
FPAN-080Z	ZB58KCE	42200	47200	52300	57600	63000	68600				
FNAR-091Z	ZB66KCE	48600	53800	59000	64400	70100	76000	82100	88400	95000	101700
FPAN-091Z	ZB66KCE	48800	54000	59200	64700	70300	76300				
FNAR-101Z	ZB76KCE	56500	62200	67800	73800	80000	86400	93000	99900	107000	114300
FPAN-101Z	ZB76KCE	56800	62500	68200	74100	80300	86800				
100° Ambient											
FFAP-015Z	ZS09KAE	6350	7040	7760	8530	9370	10600	11500	12400	13300	14300
FFAP-017Z	ZS11KAE	7320	8090	8900	9770	10700	12000	13100	14200	15500	17000
FFAP-018Z	ZS13KAE	8270	9120	10000	10900	11900	13700	14700	15800	16900	18100
FFAP-020Z	ZS13KAE	8550	9450	10400	11400	12500	14200	15300	16500	17700	19000
FFAP-022Z	ZS15KAE	10400	11500	12700	14000	15300	17400	19000	20700	22500	24700
FFAP-030Z	ZS19KAE	11900	13200	14600	16000	17600	20000	21700	23400	25300	27200
FFAP-032Z	ZS21KAE	15300	17000	18700	20500	22400	25700	28100	30700	33500	36600
FFAP-040Z	ZS26KAE	18100	20100	22300	24600	27100	31600	34600	37900	41400	45800
FFAP-042Z	ZS33KAE	22300	24700	27300	30100	33100	37800	41400	45400	49900	54500
FFAP-050Z	ZS38K4E	25300	27900	30500	33300	36300	41800	45300	49000	53000	57000
FJAM-A60Z	ZB45KCE	30200	33400	36700	40300	44000	47900				
FNAR-070Z	ZB50KCE	33800	38000	42300	46700	51300	56200	61200	66500	72000	77800
FPAN-070Z	ZB50KCE	34200	38500	42800	47200	51900	56800				
FNAR-080Z	ZB58KCE	36100	40600	45100	49700	54500	59500	64500	69700	75000	80300
FPAN-080Z	ZB58KCE	37500	42100	46800	51600	56500	61600				
FNAR-091Z	ZB66KCE	44500	49300	54000	59000	64200	69500	75100	80900	86900	93000
FPAN-091Z	ZB66KCE	44700	49500	54200	59200	64400	69800				
FNAR-101Z	ZB76KCE	51400	56600	61600	66900	72500	78200	84100	90300	96700	103200
FPAN-101Z	ZB76KCE	51700	56800	61900	67300	72800	78600				
110° Ambient											
FFAP-015Z	ZS09KAE	5750	6360	7000	7680	8430	9910	10700	11500	12300	13200
FFAP-017Z	ZS11KAE	6600	7290	8000	8770	9590	10800	11800	12900		
FFAP-018Z	ZS13KAE	7420	8170	8930	9740	10600	13000	14000			
FFAP-020Z	ZS13KAE	7720	8520	9360	10300	11200	13300	14400	15400	16500	17600
FFAP-022Z	ZS15KAE	9430	10400	11500	12600	13800	15800	17300	18800	20600	22600
FFAP-030Z	ZS19KAE	10800	11900	13200	14500	15900	18600	20100	21700	23300	25000
FFAP-032Z	ZS21KAE	13800	15300	16800	18400	20100	23300	25500	27900	30500	
FFAP-040Z	ZS26KAE	16500	18300	20200	22300	24600	28800	31600	34700	38000	42100
FFAP-042Z	ZS33KAE	20300	22500	24800	27300	30000	34500	37900	41600	45700	50000
FFAP-050Z	ZS38K4E	22800	25100	27500	30000	32700	37900	41100	44500	48100	52000
FJAM-A60Z	ZB45KCE	27100	30000	33100	36300	39700	43300				
FNAR-070Z	ZB50KCE	29600	33600	37500	41700	45900	50400	55000	59900	65000	70400
FPAN-070Z	ZB50KCE	30000	34000	38000	42100	46400	50900				
FNAR-080Z	ZB58KCE	31300	35500	39500	43700	48000	52400	56900	61500	66200	71000
FPAN-080Z	ZB58KCE	32500	36800	41000	45300	49700	54200				
FNAR-091Z	ZB66KCE	40100	44500	48900	53400	58100	62900	68000	73200		
FPAN-091Z	ZB66KCE	40300	44700	49100	53600	58300	63200				
FNAR-101Z	ZB76KCE	46100	50700	55100	59800	64700	69800	75000			
FPAN-101Z	ZB76KCE	50900	55400	60100	65000	70100					

* See pages 12 and 13 for chassis size comparison

Capacities rated at 40°F return gas (65°F return gas for capacities in **bold**), 5°F subcooling

R-134a Med/High Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	Chassis*	0	5	10	15	20	25	30	35	40	45
90° Ambient												
FPAK-010Z	ZS09KAE	A	4020	4520	5060	5620	6230	7100	7810	8570	9370	10200
FFAP-015Z	ZS09KAE	B	4220	4770	5360	6000	6680	7540	8340	9200	10100	11100
FPAK-012Z	ZS11KAE	A	4730	5300	5920	6560	7250	8250	9060	9910	10800	11700
FFAP-017Z	ZS11KAE	B	5000	5640	6340	7080	7880	8900	9840	10800	11900	13100
FFAP-018Z	ZS13KAE	B	5640	6350	7120	7940	8810	9930	10900	12000	13200	14400
FFAP-020Z	ZS13KAE	C	5710	6450	7240	8090	9010	10200	11200	12400	13600	14900
FPAK-013Z	ZS15KAE	B	6640	7470	8360	9300	10300	11800	13000	14200	15600	17000
FFAP-022Z	ZS15KAE	C	6810	7690	8640	9660	10800	12300	13600	15000	16500	18100
FPAK-015Z	ZS19KAE	B	7410	8330	9310	10300	11500	13100	14300	15700	17200	18700
FFAP-030Z	ZS19KAE	C	7870	8890	10000	11200	12500	14100	15600	17200	19000	20800
FPAK-020Z	ZS21KAE	C	10000	11300	12600	14000	15500	17700	19500	21400	23400	25600
FFAP-032Z	ZS21KAE	C	10400	11800	13200	14700	16400	18500	20400	22500	24700	27100
FPAK-039Z	ZS29KAE	C	11300	12800	14300	16000	17800	21300	23700	26200	28900	31800
FFAP-040Z	ZS26KAE	D	11800	13400	15100	16900	18900	22500	24800	27200	29800	32600
FFAP-042Z	ZS33KAE	D	14600	16500	18500	20700	23100	26100	29000	32000	35200	38700
FFAP-050Z	ZS38K4E	D	16600	18700	20900	23400	26000	29400	32500	35800	39300	43000
FNAR-070Z	ZB50KCE		24800	28000	31400	35100	39000	43200	47700	52500	57500	
FPAN-070Z	ZB50KCE		25700	29000	32500	36300	40300	44500	48900	53600	58600	
FNAR-080Z	ZB58KCE		27900	31400	35200	39300	43600	48200	53000	58100	63400	
FPAN-080Z	ZB58KCE		28600	32200	36000	40200	44600	49300	54200	59400	64900	
FPAN-091Z	ZB66KCE		32100	36000	40200	44800	49800	55000	60500	66200	72100	
FNAR-091Z	ZB66KCE		32200	36100	40400	45000	49900	55200	60700	66400	72400	
FNAR-101Z	ZB76KCE		35800	40100	44800	49800	55200	60800	66800	73000	79500	
FPAN-101Z	ZB76KCE		37000	41500	46400	51600	57200	63100	69400	75900	82600	
100° Ambient												
FPAK-010Z	ZS09KAE	A	4260	4750	5280	5840	6670	7340	8040	8790	9580	
FFAP-015Z	ZS09KAE	B	4000	4510	5060	5660	6300	7130	7890	8690	9560	10500
FPAK-012Z	ZS11KAE	A	4980	5550	6140	6780	7740	8480	9270	10100	11000	
FFAP-017Z	ZS11KAE	B	4730	5330	5980	6670	7420	8400	9280	10200	11200	12300
FFAP-018Z	ZS13KAE	B	5330	6000	6710	7470	8290	9370	10300	11300	12400	13600
FFAP-020Z	ZS13KAE	C	5410	6100	6830	7630	8480	9600	10600	11700	12800	14100
FPAK-013Z	ZS15KAE	B	7040	7870	8750	9690	11100	12200	13400	14600	16000	
FFAP-022Z	ZS15KAE	C	6450	7270	8160	9110	10100	11600	12900	14200	15600	17100
FPAK-015Z	ZS19KAE	B	7840	8750	9710	10700	12300	13500	14800	16100	17600	
FFAP-030Z	ZS19KAE	C	7460	8420	9450	10600	11800	13300	14700	16300	17900	19700
FPAK-020Z	ZS21KAE	C	10600	11900	13200	14600	16700	18400	20200	22100	24100	
FFAP-032Z	ZS21KAE	C	9860	11100	12400	13900	15400	17400	19300	21200	23300	25500
FPAK-039Z	ZS29KAE	C	10700	12100	13500	15000	16700	20200	22400	24800	27400	30100
FFAP-040Z	ZS26KAE	D	11200	12700	14300	16000	17800	21100	23300	25600	28000	30700
FFAP-042Z	ZS33KAE	D	13800	15600	17500	19600	21800	24700	27400	30300	33300	36600
FFAP-050Z	ZS38K4E	D	15600	17600	19700	22000	24500	27800	30800	33900	37200	40700
FNAR-070Z	ZB50KCE		23100	26200	29400	32900	36600	40600	44800	49300	54100	
FPAN-070Z	ZB50KCE		24100	27200	30500	34000	37800	41800	46000	50400	55100	
FNAR-080Z	ZB58KCE		26200	29500	33000	36800	40900	45200	49700	54500	59500	
FPAN-080Z	ZB58KCE		26800	30200	33800	37700	41800	46200	50900	55800	60900	
FPAN-091Z	ZB66KCE		30000	33600	37700	42000	46600	51500	56700	62100	67700	
FNAR-091Z	ZB66KCE		30100	33800	37800	42100	46800	51700	56900	62300	67900	
FNAR-101Z	ZB76KCE		33400	37400	41900	46600	51700	57000	62600	68400	74500	
FPAN-101Z	ZB76KCE		34600	38800	43400	48400	53700	59200	65100	71200	77600	

* See pages 12 and 13 for chassis size comparison

Capacities rated at 40°F return gas (65°F return gas for capacities in **bold**), 5°F subcooling

R-134a Med/High Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	Chassis*	0	5	10	15	20	25	30	35	40	45
110° Ambient												
FPAK-010Z	ZS09KAE	A			4410	4900	5410	6210	6820	7470	8160	8900
FFAP-015Z	ZS09KAE	B	3750	4230	4740	5290	5880	6690	7390	8150	8970	9840
FPAK-012Z	ZS11KAE	A				5680	6260	7160	7850	8570	9350	10200
FFAP-017Z	ZS11KAE	B	4430	4990	5590	6230	6920	7860	8680	9560	10500	11500
FFAP-018Z	ZS13KAE	B			6250	6950	7700	8740	9630	10600	11600	12700
FFAP-020Z	ZS13KAE	C	5060	5700	6390	7120	7920	8990	9930	10900	12000	13200
FPAK-013Z	ZS15KAE	B			7320	8130	9000	10300	11400	12500	13600	14900
FFAP-022Z	ZS15KAE	C	6040	6810	7630	8520	9480	10900	12100	13300	14600	16100
FPAK-015Z	ZS19KAE	B			8120	9010	9950	11400	12500	13700	15000	16300
FFAP-030Z	ZS19KAE	C	7010	7900	8860	9890	11000	12500	13800	15300	16800	18400
FPAK-020Z	ZS21KAE	C			11100	12300	13600	15600	17200	18800	20600	22500
FFAP-032Z	ZS21KAE	C	9230	10400	11600	13000	14400	16300	18000	19800	21800	23800
FPAK-039Z	ZS29KAE	C			12600	14000	15600	19700	21700	23900	26200	28600
FFAP-040Z	ZS26KAE	D	10500	11900	13400	15000	16700	19000	21100	23300	25700	28300
FFAP-042Z	ZS33KAE	D	12900	14600	16400	18400	20400	23300	25800	28500	31300	34400
FFAP-050Z	ZS38K4E	D	14700	16500	18500	20700	23000	26200	29000	31900	35100	38400
FNAR-070Z	ZB50KCE				24400	27500	30800	34300	38000	42000	46200	50700
FPAN-070Z	ZB50KCE				25300	28400	31700	35300	39000	43000	47100	51500
FNAR-080Z	ZB58KCE				27500	30800	34300	38100	42100	46400	50900	55600
FPAN-080Z	ZB58KCE				28100	31500	35100	39000	43100	47500	52100	56900
FPAN-091Z	ZB66KCE				31300	35000	39100	43400	48000	52900	57900	63200
FNAR-091Z	ZB66KCE				31400	35200	39200	43600	48200	53000	58100	63400
FNAR-101Z	ZB76KCE				34800	38900	43300	48100	53100	58300	63800	69500
FPAN-101Z	ZB76KCE				36100	40400	45000	50000	55200	60700	66400	72400

* See pages 12 and 13 for chassis size comparison

Capacities rated at 40°F return gas (65°F return gas for capacities in **bold**), 5°F subcooling

R-407A Low Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0
90° Ambient							
FFAP-015Z	ZS09KAE	3360	3960	4550	5160	5780	6430
FFAP-017Z	ZS11KAE	3970	4670	5370	6080	6800	7550
FFAP-018Z	ZS13KAE	4690	5490	6290	7100	7930	8780
FFAP-020Z	ZS13KAE	4540	5350	6150	6970	7800	8660
FFAP-022Z	ZS15KAE	5480	6460	7430	8410	9430	10500
FFAP-030Z	ZS19KAE	6250	7370	8480	9620	10800	12000
FFAP-032Z	ZS21KAE	7130	8530	9990	11500	13100	14800
FFAP-040Z	ZS26KAE	8350	9950	11600	13400	15300	17300
FFAP-042Z	ZS33KAE	10700	12800	15000	17300	19700	22300
100° Ambient							
FFAP-015Z	ZS09KAE			4220	4790	5370	5970
FFAP-017Z	ZS11KAE				5640	6320	7010
FFAP-018Z	ZS13KAE			5830	6580	7350	8140
FFAP-020Z	ZS13KAE				6470	7250	8050
FFAP-022Z	ZS15KAE				7820	8760	9730
FFAP-030Z	ZS19KAE			7870	8940	10000	11200
FFAP-032Z	ZS21KAE				10500	12100	13700
FFAP-040Z	ZS26KAE			10500	12200	14100	16000
FFAP-042Z	ZS33KAE			13600	15800	18200	20700
110° Ambient							
FFAP-015Z	ZS09KAE						5520
FFAP-017Z	ZS11KAE						6480
FFAP-018Z	ZS13KAE						7510
FFAP-020Z	ZS13KAE						7440
FFAP-022Z	ZS15KAE						9000
FFAP-030Z	ZS19KAE					9290	10300
FFAP-032Z	ZS21KAE						
FFAP-040Z	ZS26KAE					13100	14900
FFAP-042Z	ZS33KAE						19500

R-407A Med/High Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	0	5	10	15	20	25	30	35	40	45
90° Ambient											
FFAP-015Z	ZS09KAE	6430	7130	7870	8660	9510	10700	11800	12900	14100	15400
FFAP-017Z	ZS11KAE	7550	8360	9210	10100	11100	12500	13700	15000	16300	17800
FFAP-018Z	ZS13KAE	8780	9690	10600	11700	12700	13900	15100	16500	18000	19500
FFAP-020Z	ZS13KAE	8660	9600	10600	11600	12800	14400	15700	17200	18800	20500
FFAP-022Z	ZS15KAE	10500	11600	12800	14100	15400	17400	19100	20900	22800	24900
FFAP-030Z	ZS19KAE	12000	13300	14700	16200	17800	20200	22100	24200	26500	29000
FFAP-032Z	ZS21KAE	14800	16700	18600	20600	22700	25700	28200	30700	33400	36300
FFAP-040Z	ZS26KAE	17300	19400	21800	24200	26900	30600	33700	37000	40600	44300
FFAP-042Z	ZS33KAE	22300	25100	28000	31100	34500	39200	43100	47200	51500	57000
100° Ambient											
FFAP-015Z	ZS09KAE	5970	6620	7300	8040	8820	10000	11000	12000	13100	14400
FFAP-017Z	ZS11KAE	7010	7760	8550	9380	10300	11600	12700	13900	15200	16600
FFAP-018Z	ZS13KAE	8140	8970	9850	10800	11800	12900	14100	15300	16700	18200
FFAP-020Z	ZS13KAE	8050	8910	9820	10800	11800	13400	14700	16000	17500	19100
FFAP-022Z	ZS15KAE	9730	10800	11900	13100	14300	16200	17800	19400	21200	23200
FFAP-030Z	ZS19KAE	11200	12400	13700	15100	16500	18800	20600	22600	24700	27100
FFAP-032Z	ZS21KAE	13700	15500	17300	19200	21200	24100	26400	28800	31300	33900
FFAP-040Z	ZS26KAE	16000	18100	20300	22600	25100	28600	31500	34600	37800	41300
FFAP-042Z	ZS33KAE	20700	23400	26200	29200	32300	36900	40500	44400	48500	53500
110° Ambient											
FFAP-015Z	ZS09KAE	5520	6120	6740	7410	8140	9270	10200	11100	12200	13300
FFAP-017Z	ZS11KAE	6480	7170	7890	8650	9480	10800	11800	12900	14100	15400
FFAP-018Z	ZS13KAE	7510	8270	9070	9910	10800	11900	13000	14200	15500	16800
FFAP-020Z	ZS13KAE	7440	8240	9060	9950	10900	12400	13600	14800	16200	17700
FFAP-022Z	ZS15KAE	9000	9970	11000	12100	13200	15000	16500	18000	19700	21500
FFAP-030Z	ZS19KAE	10300	11400	12600	13900	15300	17400	19100	20900	22900	25100
FFAP-032Z	ZS21KAE	14700	16400	18100	20000	22900	25000	27200	29500	32000	
FFAP-040Z	ZS26KAE	14900	16900	18900	21100	23400	26800	29400	32300	35300	38500
FFAP-042Z	ZS33KAE	19500	22100	24700	27500	30400	34900	38300	41900	45700	50000

Capacities rated at 40°F return gas (65°F return gas for capacities in **bold**), 5°F subcooling

Superheat restrictions apply. See AE bulletin 4-1387 for full compressor operating envelope.

R-407C Med/High Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	0	5	10	15	20	25	30	35	40	45
90° Ambient											
FFAP-015Z	ZS09KAE	5770	6630	7520	8440	9390	10400	11400	12500	13600	14800
FFAP-017Z	ZS11KAE		7560	8590	9640	10700	12500	13700	14900	16200	17500
FFAP-018Z	ZS13KAE	7460	8610	9770	11000	12200	13600	14900	16200	17600	18900
FFAP-020Z	ZS13KAE	7800	8980	10200	11400	12700	14000	15300	16800	18200	19700
FFAP-022Z	ZS15KAE		10900	12300	13800	15400	17300	19000	20700	22500	24400
FFAP-030Z	ZS19KAE	10800	12400	14000	15800	17600	19700	21700	23700	26100	28700
FFAP-032Z	ZS21KAE	14200	16300	18400	20600	22900	25400	27900	30400	33000	35800
FFAP-040Z	ZS26KAE	16300	18800	21300	24000	26800	30700	33800	37100	41000	45200
FFAP-042Z	ZS33KAE	19400	22300	25400	28600	31900	36300	39900	43800	47700	51900
FFAP-050Z	ZS38K4E	22200	25600	29400	33500	37800	41600	46100	50800	55500	60100
100° Ambient											
FFAP-015Z	ZS09KAE		6230	7080	7950	8850	9830	10800	11800	12800	13900
FFAP-017Z	ZS11KAE			8050	9060	10100	11800	12900	14100	15300	16500
FFAP-018Z	ZS13KAE	6890	8010	9130	10300	11400	12800	14000	15300	16500	17800
FFAP-020Z	ZS13KAE		8430	9600	10800	12000	13200	14500	15800	17200	18600
FFAP-022Z	ZS15KAE			11600	13000	14500	16400	18000	19600	21300	23100
FFAP-030Z	ZS19KAE		11600	13200	14900	16600	18700	20600	22500	24800	27300
FFAP-032Z	ZS21KAE			17300	19400	21600	24000	26300	28700	31200	33700
FFAP-040Z	ZS26KAE				22700	25300	29300	32200	35300	38900	42900
FFAP-042Z	ZS33KAE		21000	23900	27000	30100	34400	37900	41400	45200	49000
FFAP-050Z	ZS38K4E		23600	27100	30900	35000	38600	43000	47400	51900	56300
110° Ambient											
FFAP-015Z	ZS09KAE				7430	8290	9160		11100	12100	13100
FFAP-017Z	ZS11KAE					9420	10400		13200	14300	15500
FFAP-018Z	ZS13KAE		7340	8430	9520	10600	12000	13100	14300	15500	16700
FFAP-020Z	ZS13KAE				10100	11300			14900	16200	17500
FFAP-022Z	ZS15KAE				12200	13600	15400	17000	18500	20100	21700
FFAP-030Z	ZS19KAE				13900	15500	17700	19500	21300	23500	25800
FFAP-032Z	ZS21KAE				18100	20100	22500	24700	27000	29300	31700
FFAP-040Z	ZS26KAE			18900	21300	23800	27800	30600	33500	36900	40700
FFAP-042Z	ZS33KAE				25200	28200	32400	35700	39100	42600	46200
FFAP-050Z	ZS38K4E		24800	28300	32100	35600	39700	43900	48100	52400	

Capacities rated at 40°F return gas (65°F return gas for capacities in **bold**), 5°F subcooling

Superheat restrictions apply. See AE bulletin 4-1387 for full compressor operating envelope.

R-22 Med/High Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	0	5	10	15	20	25	30	35	40	45
90° Ambient											
FFAP-015Z	ZS09KAE	6730	7630	8530	9450	10400	11400	12400	13600	14800	16100
FFAP-017Z	ZS11KAE		8830	9860	10900	12000	13100	14300	15600	17000	18400
FFAP-018Z	ZS13KAE		9860	11000	12200	13500	14700	16000	17400	18900	20700
FFAP-020Z	ZS13KAE	9020	10200	11500	12700	14000	15200	16600	18100	19600	21300
FFAP-022Z	ZS15KAE		12100	13500	15000	16500	18300	20000	21700	23600	25600
FFAP-030Z	ZS19KAE	12300	13900	15500	17200	19000	20800	22700	24800	27000	29400
FFAP-032Z	ZS21KAE	15900	18100	20200	22400	24700	27000	29500	32200	34900	38400
FFAP-040Z	ZS26KAE	18600	21100	23700	26300	29000	31700	34800	38100	41600	45400
FJAM-A40Z	ZB30KCE			26800	29800	33000	36500	40100	43900	48000	52200
FFAP-042Z	ZS33KAE	22800	25900	28900	32100	35400	38700	42400	46400	50500	55000
FFAP-050Z	ZS38K4E			32400	35700	39300	43100	47100	51500	55500	60500
FNAR-070Z	ZB50KCE					58300	64100	70100	76500	83200	
FNAR-080Z	ZB58KCE						71300	77900	84700	91900	
FNAR-091Z	ZB66KCE					74300	81200	88400	95900	103600	
FNAR-101Z	ZB76KCE					85700	93500	101500	110000	118600	
100° Ambient											
FFAP-015Z	ZS09KAE	7140	8010	8900	9800	10800	11800	12900	14000	15200	
FFAP-017Z	ZS11KAE		9250	10300	11300	12400	13600	14800	16100	17500	
FFAP-018Z	ZS13KAE			11500	12600	13900	15100	16500	17900	19600	
FFAP-020Z	ZS13KAE	9610	10800	12000	13200	14400	15700	17100	18600	20200	
FFAP-022Z	ZS15KAE		12700	14100	15600	17300	18900	20600	22300	24200	
FFAP-030Z	ZS19KAE	13000	14600	16200	17900	19700	21500	23500	25600	27900	
FFAP-032Z	ZS21KAE		18900	21100	23300	25500	27900	30400	33000	36300	
FFAP-040Z	ZS26KAE	19900	22300	24800	27400	30100	33100	36200	39600	43200	
FJAM-A40Z	ZB30KCE			28200	31200	34500	37900	41600	45400	49500	
FFAP-042Z	ZS33KAE	24300	27300	30300	33400	36800	40300	44000	48000	52500	
FFAP-050Z	ZS38K4E		30800	33900	37200	40900	44700	48700	53000	57500	
FNAR-070Z	ZB50KCE				54500	60200	66100	72300	78800		
FNAR-080Z	ZB58KCE				55400	61100	67100	73300	79900	86700	
FNAR-091Z	ZB66KCE					70000	76600	83500	90700	98100	
FNAR-101Z	ZB76KCE				80800	88100	95800	103900			
110° Ambient											
FFAP-015Z	ZS09KAE		8330	9190	10100	11100	12200	13200			
FFAP-017Z	ZS11KAE			10600	11600	12800					
FFAP-018Z	ZS13KAE				13000	14300	15500	16900	18500		
FFAP-020Z	ZS13KAE		11200	12400	13600	14800	16200				
FFAP-022Z	ZS15KAE		13200	14600	16300	17800	19400	21100	22800		
FFAP-030Z	ZS19KAE		15200	16800	18400	20300	22200	24200	26400		
FFAP-032Z	ZS21KAE			21800	24000	26300	28700	31200	34300		
FFAP-040Z	ZS26KAE	20900	23300	25800	28500	31300	34300	37500	40900		
FJAM-A40Z	ZB30KCE				32400	35700	39100	42800	46600		
FFAP-042Z	ZS33KAE	25500	28400	31400	34700	38100	41700	45500	49600		
FFAP-050Z	ZS38K4E			35100	38600	42200	45900	49900	54000		
FNAR-070Z	ZB50KCE				55800	61600	67700				
FNAR-080Z	ZB58KCE				62500	68500					

Capacities rated at 40°F return gas (65°F return gas for capacities in **bold**), 5°F subcooling

R-404A Ext Med/Low Temp

Copeland welded air-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25
90° Ambient													
FJEF-0100	RST64C1E	2670	3060	3480	3940	4430	4940	5500	6070	6670	7280	7900	
FJAF-0100	RST64C1E	2560	3010	3500	4010	4550	5090	5680	6270	6860	7470	8080	
FJAF-0106	RST64C1E	2750	3150	3600	4090	4610	5160	5780	6420	7080	7780	8500	
FJAF-0125	RST70C1E	2710	3200	3740	4310	4930	5570	6280	7000	7750	8530	9330	
FJEF-0108	RST80C1E	3090	3580	4100	4650	5220	5800	6440	7070	7720	8390	9060	
FJCL-B100	RST97C1E	3280	3730	4230	4760	5320	5850						
FJAF-0108	RST80C1E	3110	3610	4130	4690	5280	5870	6520	7180	7850	8540	9230	
FJAF-E108	RST80C1E	3110	3610	4130	4690	5280	5870	6520	7180	7850	8540	9230	
FJAL-0105	RFT42C1E	2840	3330	3850	4390	4960	5560	6150					
FJAF-0126	RST80C1E	3260	3810	4400	5030	5690	6380	7150	7920	8740	9580	10500	
FJAF-B100	RST97C1E	3540	4050	4620	5230	5890	6550	7270	7980	8680	9370	10100	
FJAF-E110	RST97C1E	3540	4050	4620	5230	5890	6550	7270	7980	8680	9370	10100	
FJAF-0130	RST97C1E	3790	4360	5010	5720	6490	7280	8160	9040	9940	10800	11800	
100° Ambient													
FJEF-0100	RST64C1E	2380	2730	3110	3530	3980	4440	4960	5480	6020	6570	7140	
FJAF-0100	RST64C1E	2230	2660	3110	3580	4070	4560	5100	5640	6180	6730	7280	
FJAF-0106	RST64C1E	2440	2810	3220	3660	4150	4650	5220	5800	6410	7040	7700	
FJAF-0125	RST70C1E	2330	2800	3300	3840	4410	5000	5660	6320	7010	7710	8440	
FJEF-0108	RST80C1E	2710	3140	3610	4100	4620	5140	5720	6290	6880	7490	8110	
FJCL-B100	RST97C1E	2850	3260	3710	4190	4690	5170						
FJAF-0108	RST80C1E	2720	3160	3630	4140	4670	5200	5800	6390	7000	7630	8270	
FJAF-E108	RST80C1E	2720	3160	3630	4140	4670	5200	5800	6390	7000	7630	8270	
FJAL-0105	RFT42C1E	2540	2980	3450	3940	4450	4980	5500					
FJAF-0126	RST80C1E	2850	3340	3870	4440	5060	5680	6390	7100	7850	8630	9440	
FJAF-B100	RST97C1E	3080	3540	4060	4620	5220	5810	6480	7120	7760	8380	9000	
FJAF-E110	RST97C1E	3080	3540	4060	4620	5220	5810	6480	7120	7760	8380	9000	
FJAF-0130	RST97C1E	3300	3830	4420	5080	5780	6510	7320	8120	8950	9780	10600	
110° Ambient													
FJEF-0100	RST64C1E		2420	2760	3130	3530	3940	4410	4870	5350	5850	6360	
FJAF-0100	RST64C1E		2340	2740	3170	3610	4050	4530	5010	5490	5980	6460	
FJAF-0106	RST64C1E	2160	2490	2850	3250	3680	4120	4640	5150	5700	6270	6860	
FJAF-0125	RST70C1E	1940	2380	2840	3340	3870	4400	5000	5600	6220	6860	7510	
FJEF-0108	RST80C1E		2740	3140	3570	4030	4480	5000	5510	6040	6590	7150	
FJCL-B100	RST97C1E			3200	3630	4080	4510						
FJAF-0108	RST80C1E		2750	3160	3600	4070	4540	5070	5600	6150	6710	7290	
FJAF-E108	RST80C1E		2750	3160	3600	4070	4540	5070	5600	6150	6710	7290	
FJAL-0105	RFT42C1E	2640	3050	3480	3930	4390	4840						
FJAF-0126	RST80C1E	2480	2900	3370	3870	4410	4970	5610	6250	6930	7630	8370	
FJAF-B100	RST97C1E		3050	3510	4010	4550	5080	5670	6250	6820	7390		
FJAF-E110	RST97C1E		3050	3510	4010	4550	5080	5670	6250	6820	7390		
FJAF-0130	RST97C1E	2830	3300	3830	4420	5060	5710	6440	7170	7910	8660	9400	

Capacities rated at 65°F return gas and 5°F subcooling

R-134a Med/High Temp

Copeland welded air-cooled condensing units

Model	Compressor	Chassis	0	5	10	15	20	25	30	35	40	45
90° Ambient												
FTAH-C100	RRT10K1E		4300	4890	5530	6190	6890	7620	8370	9150	9950	10800
100° Ambient												
FTAH-C100	RRT10K1E		4490	5080	5710	6360	7050	7760	8490	9240	10000	
110° Ambient												
FTAH-C100	RRT10K1E						6470	7130				

Capacities rated at 65°F return gas and 5°F subcooling

R-407C Med/High Temp

Copeland welded air-cooled condensing units

Model	Compressor	Chassis	0	5	10	15	20	25	30	35	40	45
90° Ambient												
FJAF-0100	RST64C1E		4840	5480	6160	6880	7650	8450	9290	10200	11100	10800
100° Ambient												
FJAF-0100	RST64C1E			5010	5640	6300	6990	7720	8480	9280		10000
FJAF-0100	RST64C1E				5100	5700	6330					

Capacities rated at 65°F return gas and 5°F subcooling

R-22 Med/High Temp

Copeland welded air-cooled condensing units

Model	Compressor	0	5	10	15	20	25	30	35	40	45	
90° Ambient												
F3AH-B100	RST64C1	4470	5020	5640	6330	7070	7870	8710	9580	10500	11400	
F3AH-B105	RST70C1	5250	5920	6630	7380	8190	9060	9990	11000	12100	13200	
100° Ambient												
F3AH-B100	RST64C1		4620	5200	5840	6530	7270	8060	8880	9730	10600	
F3AH-B105	RST70C1			5520	6190	6910	7670	8470	9340	10300	11200	12300
110° Ambient												
F3AH-B100	RST64C1				5350	6000	6690	7430				
F3AH-B105	RST70C1				5740	6420	7130	7880	8680	9540	10500	11400

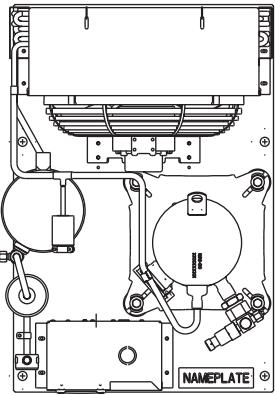
Capacities rated at 65°F return gas and 5°F subcooling

Physical and Electrical Data

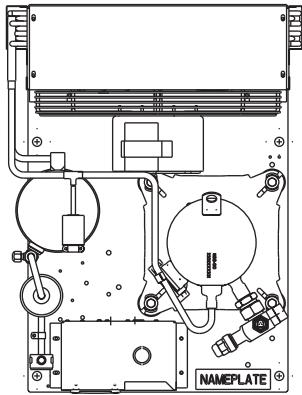
Copeland Scroll air-cooled condensing units

Model	Electricals	BOM	Compressor Electrical	Chassis	Length	Width	Height	Refrigerant Connections	
								Liquid	Suction
FFAP-015Z	CFV	072, 075	ZS09KAE-PFV	B	24	18.3	16.6	3/8 S	7/8 S
FFAP-015Z	TFC	072, 075	ZS09KAE-TF5	B	24	18.3	16.6	3/8 S	7/8 S
FFAP-015Z	TFD	072, 075	ZS09KAE-TFD	B	24	18.3	16.6	3/8 S	7/8 S
FFAP-017Z	CFV	072, 075	ZS11KAE-PFV	B	24.1	18.3	16.6	3/8 S	7/8 S
FFAP-017Z	TFC	072, 075	ZS11KAE-TF5	B	24.1	18.3	16.6	3/8 S	7/8 S
FFAP-017Z	TFD	072	ZS11KAE-TFD	B	24.1	18.3	16.6	3/8 S	7/8 S
FFAP-018Z	CFV	072	ZS13KAE-PFV	B	24.1	18.3	16.6	3/8 S	7/8 S
FFAP-020Z	CFV	071, 072	ZS13KAE-PFV	C	25.2	34	19	3/8 S	7/8 S
FFAP-020Z	TFC	071, 072	ZS13KAE-TF5	C	25.2	34	19	3/8 S	7/8 S
FFAP-020Z	TFD	071, 072	ZS13KAE-TFD	C	25.2	34	19	3/8 S	7/8 S
FFAP-022Z	CFV	071, 072	ZS15KAE-PFV	C	25.2	34	19	3/8 S	7/8 S
FFAP-022Z	TFC	071, 072	ZS15KAE-TF5	C	25.2	34	19	3/8 S	7/8 S
FFAP-022Z	TFD	071	ZS15KAE-TFD	C	25.2	34	19	3/8 S	7/8 S
FFAP-030Z	CFV	071, 072	ZS19KAE-PFV	C	25.2	34.1	19	3/8 S	7/8 S
FFAP-030Z	TFC	071, 072	ZS19KAE-TF5	C	25.2	34.1	19	3/8 S	7/8 S
FFAP-030Z	TFD	071	ZS19KAE-TFD	C	25.2	34.1	19	3/8 S	7/8 S
FFAP-032Z	CFV	071, 072	ZS21KAE-PFV	C	25.2	34.1	19	3/8 S	1 1/8 S
FFAP-032Z	TFC	071, 072	ZS21KAE-TF5	C	25.2	34.1	19	3/8 S	1 1/8 S
FFAP-032Z	TFD	071	ZS21KAE-TFD	C	25.2	34.1	19	3/8 S	1 1/8 S
FFAP-040Z	CFV	071, 072	ZS26KAE-PFV	D	28.2	44.1	26.8	1/2 S	1 1/8 S
FFAP-040Z	TFC	071, 072	ZS26KAE-TF5	D	28.2	44.1	26.8	1/2 S	1 1/8 S
FFAP-040Z	TFD	071	ZS26KAE-TFD	D	28.2	44.1	26.8	1/2 S	1 1/8 S
FFAP-042Z	CFV	071, 072	ZS33KAE-PFV	D	28.2	44.1	26.8	1/2 S	1 1/8 S
FFAP-042Z	TFC	071, 072	ZS33KAE-TF5	D	28.2	44.1	26.8	1/2 S	1 1/8 S
FFAP-042Z	TFD	071	ZS33KAE-TFD	D	28.2	44.1	26.8	1/2 S	1 1/8 S
FFAP-050Z	CFV	071, 072	ZS38K4E-PFV	D	28.2	44.1	26.8	1/2 S	1 1/8 S
FFAP-050Z	TFC	071, 072	ZS38K4E-TF5	D	28.2	44.1	26.8	1/2 S	1 1/8 S
FFAP-050Z	TFD	071	ZS38K4E-TFD	D	28.2	44.1	26.8	1/2 S	1 1/8 S
FFAP-050Z	TFE	070	ZS38K4E-TFE	D	28.2	44.1	26.8	1/2 S	1 1/8 S
FNAR-070Z	TFC	001	ZB50KCE-TF5		28.2	44.1	36.7	5/8 S	1-3/8 S
FNAR-070Z	TFD	001	ZB50KCE-TFD		28.2	44.1	36.7	5/8 S	1-3/8 S
FNAR-070Z	TFE	001	ZB50KCE-TFE		28.2	44.1	36.7	5/8 S	1-3/8 S
FNAR-080Z	TFC	001	ZB58KCE-TF5		28.2	44.1	36.7	5/8 S	1-3/8 S
FNAR-080Z	TFD	001, 106	ZB58KCE-TFD		28.2	44.1	36.7	5/8 S	1-3/8 S
FNAR-080Z	TFE	001	ZB58KCE-TFE		28.2	44.1	36.7	5/8 S	1-3/8 S
FNAR-091Z	TFC	001	ZB66KCE-TF5		28.2	44.5	36.7	5/8 S	1-3/8 S
FNAR-091Z	TFD	001	ZB66KCE-TFD		28.2	44.5	36.7	5/8 S	1-3/8 S
FNAR-101Z	TFC	001	ZB76KCE-TF5		28.2	44.5	36.7	5/8 S	1-3/8 S
FNAR-101Z	TFD	001, 105, 106	ZB76KCE-TFD		28.2	44.5	36.7	5/8 S	1-3/8 S
FNAR-101Z	TFE	001	ZB76KCE-TFE		28.2	44.5	36.7	5/8 S	1-3/8 S

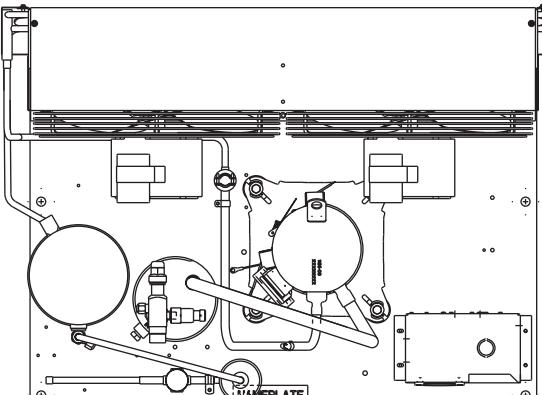
Chassis A



Chassis B



Chassis C

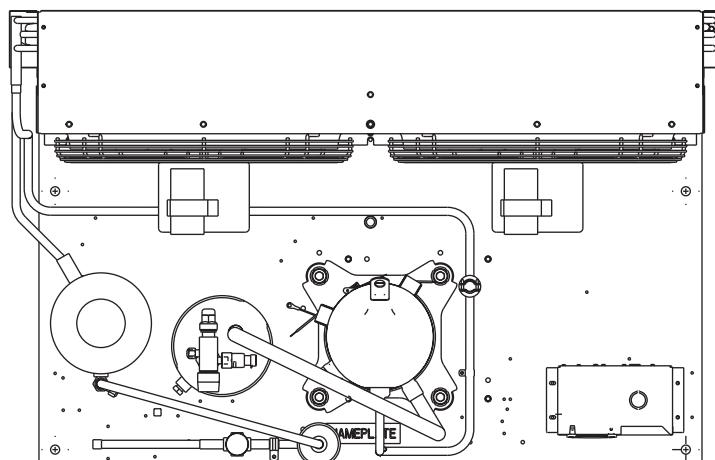


Physical and Electrical Data

Copeland Scroll air-cooled condensing units

Model	Receiver Capacity (Lbs @ 90% Volume)					MCA	Max Fuse	Ship Weight
	R-134a	R-22	R-404A	R-407A	R-407C			
FFAP-015Z	7.3	7.4	6.4	7.1	7.1	13.9	20	110
FFAP-015Z	7.3	7.4	6.4	7.1	7.1	11.4	15	110
FFAP-015Z	7.3	7.4	6.4	7.1	7.1	6.4	15	110
FFAP-017Z	7.3	7.4	6.4	7.1	7.1	17.2	25	114
FFAP-017Z	7.3	7.4	6.4	7.1	7.1	14.4	20	114
FFAP-017Z	7.3	7.4	6.4	7.1	7.1	7.0	15	114
FFAP-018Z	7.3	7.4	6.4	7.1	7.1	16.4	25	114
FFAP-020Z	12.9	13.1	11.2	12.4	12.3	16.8	25	186
FFAP-020Z	12.9	13.1	11.2	12.4	12.3	13.9	20	186
FFAP-020Z	12.9	13.1	11.2	12.4	12.3	7.1	15	186
FFAP-022Z	12.9	13.1	11.2	12.4	12.3	22.4	35	186
FFAP-022Z	12.9	13.1	11.2	12.4	12.3	16.1	20	186
FFAP-022Z	12.9	13.1	11.2	12.4	12.3	10	15	186
FFAP-030Z	12.9	13.1	11.2	12.4	12.3	25.3	40	192
FFAP-030Z	12.9	13.1	11.2	12.4	12.3	19.9	30	192
FFAP-030Z	12.9	13.1	11.2	12.4	12.3	11.3	15	192
FFAP-032Z	12.9	13.1	11.2	12.4	12.3	31.8	50	219
FFAP-032Z	12.9	13.1	11.2	12.4	12.3	21.8	30	219
FFAP-032Z	12.9	13.1	11.2	12.4	12.3	11.8	15	219
FFAP-040Z	21.1	21.5	18.4	20.2	20.1	33.1	50	296
FFAP-040Z	21.1	21.5	18.4	20.2	20.1	23	35	296
FFAP-040Z	21.1	21.5	18.4	20.2	20.1	11	15	296
FFAP-042Z	21.1	21.5	18.4	20.2	20.1	38.9	60	320
FFAP-042Z	21.1	21.5	18.4	20.2	20.1	31.5	50	320
FFAP-042Z	21.1	21.5	18.4	20.2	20.1	14.9	20	320
FFAP-050Z	21.1	21.5	18.4	20.2	20.1	43.4	70	320
FFAP-050Z	21.1	21.5	18.4	20.2	20.1	30.4	45	320
FFAP-050Z	21.1	21.5	18.4	20.2	20.1	14.4	20	320
FFAP-050Z	21.1	21.5	18.4	20.2	20.1	11.9	15	320
FNAR-070Z	53	53.8	46			44.8	60	486
FNAR-070Z	53	53.8	46			23.2	30	505
FNAR-070Z	53	53.8	46			17.9	20	499
FNAR-080Z	53	53.8	46			49.1	70	490
FNAR-080Z	53	53.8	46			24.9	35	493
FNAR-080Z	53	53.8	46			20.1	25	497
FNAR-091Z	53	53.8	46			51.0	70	260
FNAR-091Z	53	53.8	46			26.3	35	506
FNAR-101Z	53	53.8	46			60.8	90	521
FNAR-101Z	53	53.8	46			29.4	45	420
FNAR-101Z	53	53.8	46			21.3	30	516

Chassis D



Physical and Electrical Data

Copeland Scroll air-cooled condensing units

Model	Electricals	BOM	Compressor Electrical	Chassis	Length	Width	Height	Refrigerant Connections	
								Liquid	Suction
FPAK-010Z	CFV	072	ZS09KAE-PFV	A	24	17.1	16.6	3/8 S	5/8 S
FPAK-010Z	TFC	072	ZS09KAE-TF5	A	24	17.1	16.6	3/8 S	5/8 S
FPAK-010Z	TFD	072	ZS09KAE-TFD	A	24	17.1	16.6	3/8 S	5/8 S
FPAK-012Z	CFV	072	ZS11KAE-PFV	A	24	17.1	16.6	3/8 S	5/8 S
FPAK-012Z	TFC	072	ZS11KAE-TF5	A	24	17.1	16.6	3/8 S	5/8 S
FPAK-012Z	TFD	072	ZS11KAE-TFD	A	24	17.1	16.6	3/8 S	5/8 S
FPAK-013Z	CFV	072, 075	ZS15KAE-PFV	B	24.1	18.3	16.6	3/8 S	7/8 S
FPAK-013Z	TFC	072	ZS15KAE-TF5	B	24.1	18.3	16.6	3/8 S	7/8 S
FPAK-013Z	TFD	072, 075	ZS15KAE-TFD	B	24.1	18.3	16.6	3/8 S	7/8 S
FPAK-015Z	CFV	072	ZS19KAE-PFV	B	24.1	18.3	16.6	3/8 S	7/8 S
FPAK-015Z	TFC	072	ZS19KAE-TF5	B	24.1	18.3	16.6	3/8 S	7/8 S
FPAK-015Z	TFD	072	ZS19KAE-TFD	B	24.1	18.3	16.6	3/8 S	7/8 S
FPAK-020Z	CFV	072	ZS21KAE-PFV	C	25	34.1	19	3/8 S	1 1/8 S
FPAK-020Z	TFC	071, 072	ZS21KAE-TF5	C	25	34.1	19	3/8 S	1 1/8 S
FPAK-020Z	TFD	071, 072	ZS21KAE-TFD	C	25	34.1	19	3/8 S	1 1/8 S
FPAK-039Z	CFV	071	ZS29KAE-PFV	C	25.2	34.1	19	3/8 S	1 1/8 S
FPAK-039Z	TFC	071	ZS29KAE-TF5	C	25.2	34.1	19	3/8 S	1 1/8 S
FPAK-039Z	TFD	071	ZS29KAE-TFD	C	25.2	34.1	19	3/8 S	1 1/8 S
FPAN-070Z	TFC	071	ZB50KCE-TF5		27.96	44	36.82	5/8 S	1-3/8 S
FPAN-070Z	TFD	071, 073	ZB50KCE-TFD		28.54	44	36.82	5/8 S	1-3/8 S
FPAN-080Z	TFC	071	ZB58KCE-TF5		27.96	44	36.82	5/8 S	1-3/8 S
FPAN-080Z	TFD	071, 073	ZB58KCE-TFD		28.54	44	36.82	5/8 S	1-3/8 S
FPAN-091Z	TFC	071	ZB66KCE-TF5		28.52	44	36.83	5/8 S	1-3/8 S
FPAN-101Z	TFC	071	ZB76KCE-TF5		28.52	44	36.83	5/8 S	1-3/8 S
FPAN-101Z	TFD	071, 073	ZB76KCE-TFD		28.52	44	36.83	5/8 S	1-3/8 S

Physical and Electrical Data

Copeland welded air-cooled condensing units

Model	Electricals	BOM	Compressor Electrical	Length	Width	Height	Refrigerant Connections	
							Liquid	Suction
F3AH-B100	CAV	072	RST64C1-CAV	24	17.19	13.38	3/8 S	5/8 S
F3AH-B100	CFA	020	RST64C1-CFA	24	17.19	13.38	3/8 S	5/8 S
F3AH-B105	CFV	020	RST70C1-PFV	24	18.3	16.2	3/8 S	5/8 S
F3AH-B105	TAC	020	RST70C1-TA5	24	18.3	16.2	3/8 S	5/8 S
FJAF-0100	CAV	020	RST64C1E-CAV	24	17.04	13.38	3/8 S	5/8 S
FJAF-0100	IAV	212	RST64C1E-IAV	24	17.04	13.38	3/8 S	5/8 S
FJAF-0106	CAV	017, 020, 208	RST64C1E-CAV	24	18.3	16.2	3/8 S	7/8 S
FJAF-0108	CFV	020, 072, 075, 212	RST80C1E-PFV	24	17.3	13	3/8 S	5/8 S
FJAF-0108	TAC	020	RST80C1E-TA5	24	17.3	13	3/8 S	5/8 S
FJAF-0125	CFV	020, 072, 075	RST70C1E-PFV	24	18.3	16.2	3/8 S	5/8 S
FJAF-0125	TAC	020, 072, 075	RST70C1E-TA5	24	18.3	16.2	3/8 S	5/8 S
FJAF-0126	CFV	020	RST80C1E-PFV	24	18.3	16.2	3/8 S	5/8 S
FJAF-0126	TAC	020	RST80C1E-TA5	24	18.3	16.2	3/8 S	5/8 S
FJAF-0130	CFV	072, 075, 212, 272	RST97C1E-PFV	24	18.3	16.2	3/8 S	5/8 S
FJAF-B100	CFV	212	RST97C1E-PFV	24	17.3	13	3/8 S	5/8 S
FJAF-E110	CFV	212	RST97C1E-PFV	24	17.3	13	3/8 S	5/8 S
FJAL-0105	CFV	020, 072, 075	RFT42C1E-PFV	24	17.3	13	3/8 S	5/8 S
FJCL-B100	CFV	212	RST97C1E-PFV	23.56	13.33	11.73	1/4 S	5/8 S
FJEF-0108	CFV	212	RST80C1E-PFV	24	17.11	13.59	3/8 S	5/8 S
FTAH-C100	CFV	020, 212	RRT10K1E-PFV	24	17.45	13	3/8 S	5/8 S

Physical and Electrical Data

Copeland Scroll air-cooled condensing units

Model	Receiver Capacity (Lbs @ 90% Volume)					MCA	Max Fuse	Ship Weight
	R-134a	R-22	R-404A	R-407A	R-407C			
FPAK-010Z	7.4		6.4			13.7	20	101
FPAK-010Z	7.4		6.4			11.2	15	101
FPAK-010Z	7.4		6.4			5.5	15	101
FPAK-012Z	7.4		6.4			16.9	25	103
FPAK-012Z	7.4		6.4			14.2	20	103
FPAK-012Z	7.4		6.4			6.2	15	103
FPAK-013Z	7.4		6.4			21	35	114
FPAK-013Z	7.4		6.4			14.7	20	114
FPAK-013Z	7.4		6.4			8.4	15	114
FPAK-015Z	7.4		6.4			23.9	40	117
FPAK-015Z	7.4		6.4			18.5	30	117
FPAK-015Z	7.4		6.4			9.7	15	117
FPAK-020Z	13.1		11.2			31.8	50	204
FPAK-020Z	13.1		11.2			21.8	30	204
FPAK-020Z	13.1		11.2			11.8	15	204
FPAK-039Z	13.1		11.2			35.4	50	218
FPAK-039Z	13.1		11.2			28.4	45	218
FPAK-039Z	13.1		11.2			15	20	218
FPAN-070Z	53.8	52.9	46			44.8	60	325
FPAN-070Z	53.8	52.9	46			23.2	30	375
FPAN-080Z	53.8	52.9	46			49.1	70	350
FPAN-080Z	53.8	52.9	46			24.9	35	501
FPAN-091Z	53.8	52.9	46			51.0	70	478
FPAN-101Z	53.8	52.9	46			60.8	90	350
FPAN-101Z	53.8	52.9	46			28.4	40	340

Physical and Electrical Data

Copeland welded air-cooled condensing units

Model	Receiver Capacity (Lbs @ 90% Volume)					MCA	Max Fuse	Ship Weight
	R-134a	R-22	R-404A	R-407A	R-407C			
F3AH-B100	6.2					12.4	20	88
F3AH-B100	6.2					20.3	30	87
F3AH-B105	11.9					11.0	15	104
F3AH-B105	11.9					7.5	15	107
FJAF-0100		5.4				12.4	20	93
FJAF-0100		5.4				12.4	20	92
FJAF-0106		5.4				12.7	20	89
FJAF-0108		5.4				12.8	20	91
FJAF-0108		5.4				8.3	15	92
FJAF-0125		10.3				11.0	15	104
FJAF-0125		10.3				8.3	15	106
FJAF-0126		10.3				13.0	20	107
FJAF-0126		10.3				8.5	15	106
FJAF-0130		10.3				13.9	20	109
FJAF-B100		5.4				13.7	20	89
FJAF-E110		5.4				13.6	20	90
FJAL-0105		5.4				11.2	15	90
FJCL-B100		5.4				13.5	20	79
FJEF-0108		5.4				12.8	20	87
FTAH-C100	6.3					11.2	15	90

Copeland Scroll™ water-cooled condensing units

BTU/H at 105° condensing, 75° water inlet - evaporator temp (°F)

Water flow (GPM) at evaporator temp (°F)

Capacities rated at 40°F return gas (65°F return gas for capacities in **bold**), 5°F subcooling

R-404A Low Temp

Model	Compressor	-30	-25	-20	-15	-10	-5	0	-30	-15	0
FFWP-015Z	ZS09KAE	3230	3670	4140	4670	5240	5890	6590	0.48	0.67	0.96
FFWP-017Z	ZS11KAE	4010	4540	5130	5790	6500	7300	8180	0.61	0.83	1.11
FFWP-020Z	ZS13KAE	4400	4990	5640	6350	7140	8010	8980	0.69	0.94	1.26
FFWP-022Z	ZS15KAE	5350	6070	6860	7720	8680	9740	10900	0.83	1.12	1.51
FFWP-030Z	ZS19KAE	6340	7190	8120	9150	10300	11500	12900	1.02	1.33	1.74
FFWP-032Z	ZS21KAE	8030	9100	10300	11600	13000	14600	16400	1.23	1.67	2.25
FFWP-040Z	ZS26KAE	9390	10600	12000	13600	15200	17100	19200	1.45	1.97	2.6
FFWP-042Z	ZS33KAE	11200	12700	14400	16200	18200	20400	22900	1.72	2.32	3.13
FFWP-050Z	ZS38K4E	14000	15800	17700	19900	22200	24800	27600	2.12	2.83	3.75
FJWM-C50Z	ZS45K4E						31900	35400			4.66

R-404A Med/HighTemp

Model	Compressor	5	10	15	20	25	30	35	40	45	0	25	45
FFWP-015Z	ZS09KAE	7370	8230	9180	10200	12300	13600	14900	16400	18000	0.96	1.57	2.15
FFWP-017Z	ZS11KAE	9150	10200	11400	12700	14400	15900	17500	19300	21100	1.11	1.8	2.5
FFWP-020Z	ZS13KAE	10000	11200	12500	13900	16800	18500	20400	22400	24600	1.26	2.12	2.92
FFWP-022Z	ZS15KAE	12200	13600	15200	16900	20400	22500	24700	27200	29900	1.51	2.56	3.52
FFWP-030Z	ZS19KAE	14500	16200	18000	20100	22900	25200	27700	30500	33400	1.74	2.84	3.96
FFWP-032Z	ZS21KAE	18300	20500	22800	25400	30700	34100	37900	42100	46700	2.25	3.85	5.47
FFWP-040Z	ZS26KAE	21400	23900	26700	29700	32900	36500	40400	44700	49300	2.6	4.11	5.85
FFWP-042Z	ZS33KAE	25600	28600	31900	35500	43000	47700	53000	58800	65300	3.13	5.34	7.62
FFWP-050Z	ZS38K4E	30600	33900	37500	41400	51600	56800	62300	68300	75700	3.75	6.53	9.26
FJWM-C50Z	ZS45K4E	39300	43500	48100	53100	58500					4.66	7.45	

R-134a Med/High Temp

Model	Compressor	0	5	10	15	20	25	30	35	40	45	0	25	45
FFWP-015Z	ZS09KAE	4070	4620	5220	5870	6590	7620	8500	9460	10500	11600	0.57	0.96	1.4
FFWP-017Z	ZS11KAE	4850	5510	6230	7010	7870	9090	10100	11300	12500	13900	0.67	1.15	1.67
FFWP-020Z	ZS13KAE	5540	6290	7110	8010	8990	10400	11600	12900	14300	15900	0.77	1.32	1.91
FFWP-022Z	ZS15KAE	6680	7590	8570	9650	10800	12500	14000	15600	17300	19100	0.92	1.57	2.28
FFWP-030Z	ZS19KAE	7540	8560	9680	10900	12200	14100	15800	17500	19500	21600	1.05	1.75	2.53
FFWP-032Z	ZS21KAE	10100	11500	13000	14600	16400	19000	21200	23600	26200	29000	1.35	2.33	3.4
FFWP-040Z	ZS26KAE	11600	13200	14900	16800	18900	21000	23500	26100	29000	32200	1.54	2.56	3.79
FFWP-042Z	ZS33KAE	14000	15800	17900	20200	22600	26100	29200	32500	36100	40000	1.86	3.21	4.67
FFWP-050Z	ZS38K4E	16000	18100	20400	23000	25800	30800	34300	38100	42300	47200	2.1	3.79	5.69

R-407A Low Temp

Model	Compressor	-25	-20	-15	-10	-5	0	5	-25	-10	5
FFWP-015Z	ZS09KAE	3330	3960	4590	5240	5910	6630	7410	0.5	0.8	1
FFWP-017Z	ZS11KAE	3980	4720	5480	6250	7060	7920	8850	0.6	0.9	1.2
FFWP-020Z	ZS13KAE	4540	5390	6250	7140	8060	9050	10100	0.7	1	1.4
FFWP-022Z	ZS15KAE	5470	6500	7540	8610	9720	10900	12200	0.8	1.2	1.6
FFWP-030Z	ZS19KAE	6180	7340	8510	9710	11000	12300	13700	1	1.4	1.8
FFWP-032Z	ZS21KAE	7160	8680	10300	11900	13700	15600	17700	1.2	1.7	2.4
FFWP-040Z	ZS26KAE	7940	9640	11400	13300	15200	17400	19600	1.3	1.9	2.6
FFWP-042Z	ZS33KAE	10400	12700	15000	17400	20000	22800	25800	1.7	2.4	3.4

R-407A Med/High Temp

Model	Compressor	10	15	20	25	30	35	40	45	10	25	45
FFWP-015Z	ZS09KAE	8250	9170	10200	12000	13300	14700	16300	18300	1.1	1.4	2.1
FFWP-017Z	ZS11KAE	9850	11000	12200	14300	15900	17600	19500	21800	1.3	1.7	2.5
FFWP-020Z	ZS13KAE	11300	12500	13900	16300	18100	20100	22200	24900	1.5	2	2.8
FFWP-022Z	ZS15KAE	13600	15100	16700	19700	21800	24200	26800	30000	1.8	2.3	3.4
FFWP-030Z	ZS19KAE	15300	17000	18900	22200	24600	27300	30200	33800	2	2.6	3.8
FFWP-032Z	ZS21KAE	19900	22300	25000	28600	31800	35300	39100	43200	2.6	3.5	5
FFWP-040Z	ZS26KAE	22100	24800	27700	32700	36400	40400	44700	49900	2.9	3.9	5.6
FFWP-042Z	ZS33KAE	29000	32600	36400	41700	46400	51500	57000	63500	3.7	5	7.1

R-407C Med/High Temp

Model	Compressor	0	5	10	15	20	25	30	35	40	45	0	25	45
FFWP-015Z	ZS09KAE	5750	6670	7620	8630	9700	11100	12300	13600	15000	16500	0.81	1.42	1.98
FFWP-017Z	ZS11KAE	6870	7960	9100	10300	11600	13300	14700	16300	18000	19700	0.98	1.68	2.34
FFWP-020Z	ZS13KAE	7840	9090	10400	11800	13200	15100	16800	18600	20500	22500	1.13	1.92	2.68
FFWP-022Z	ZS15KAE	9450	11000	12500	14200	15900	18300	20300	22400	24700	27200	1.34	2.31	3.22
FFWP-030Z	ZS19KAE		14500	16400	18500	20600	22800	25300	27800	30600		2.6	3.62	
FFWP-032Z	ZS21KAE	14300	16600	19000	21500	24200	27700	30700	34000	37500	41200	1.97	3.42	4.8
FFWP-040Z	ZS26KAE	16300	18900	21600	24500	27500	30600	34000	37600	41500	45600	2.24	3.77	5.3
FFWP-042Z	ZS33KAE	19700	22900	26200	29600	33300	38100	42300	46800	51600	56800	2.71	4.71	6.61
FFWP-050Z	ZS38K4E	22500	26200	30400	35000	39900	45000	50400	55900	61500	67200	2.93	5.31	7.76

R-22 Med/High Temp

Model	Compressor	0	5	10	15	20	25	30	35	40	45	0	25	45
FFWP-015Z	ZS09KAE	6770	7740	8720	9750	10800	12100	13300	14700	16100	17700	0.92	1.51	2.14
FFWP-017Z	ZS11KAE	7890	9040	10200	11400	12700	14000	15500	17100	18800	21000	1.07	1.75	2.49
FFWP-020Z	ZS13KAE	9160	10500	11800	13200	14600	16400	18000	19900	21800	24000	1.24	2.03	2.94
FFWP-022Z	ZS15KAE	10800	12300	13900	15500	17200	19200	21200	23400	25700	28200	1.49	2.4	3.41
FFWP-032Z	ZS21KAE	6770	7740	8720	9750	10800	19200	21200	23400	25700	28200	1.65	2.69	3.82
FFWP-030Z	ZS19KAE	12200	14000	15800	17600	19600	21900	24100	26500	29200	32000	1.65	2.69	3.82
FFWP-040Z	ZS26KAE	18200	20800	23500	26200	29100	32600	35900	39500	43400	47700	2.43	3.96	5.69
FFWP-042Z	ZS33KAE	6770	7740	8720	9750	10800	44800	49400	54300	59500	65100	3.46	5.62	8.03
FFWP-050Z	ZS38K4E	26200	29300	32600	36300	40200	44800	49400	54300	59500	65100	3.46	5.62	8.03

Copeland™ welded water-cooled condensing units

BTU/H at 105° condensing, 75° water inlet - evaporator temp (°F)	Water flow (GPM) at evaporator temp (°F)
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Capacities rated at 40°F return gas, 5°F subcooling

R-404A Ext Med Temp

Model	Compressor	-25	-20	-15	-10	-5	0	25	-25	0	25
FJWF-C106	RST64C1E	2490	2980	3530	4120	4750	5420	9470	0.4	0.81	1.31
FJWF-C125	RST70C1E	2490	2990	3550	4160	4830	5540	9870	0.4	0.79	1.29
FJWF-C126	RST80C1E	3080	3650	4280	4960	5710	6520	11400	0.51	0.91	1.52

R-22 Med/High Temp

Model	Compressor	0	5	10	15	20	25	30	0	15	30
F3WH-B105	RST70C1	5120	5820	6580	7410	8330	9340	10400	0.72	1.03	1.34

Physical and Electrical Data

Copeland Scroll™ water-cooled condensing units

Model	Electricals	BOM	Compressor Electrical	Length	Width	Height	Refrigerant Connections	
							Liquid	Suction
FFWP-015Z	CFV	020	ZS09KAE-PFV	24.0	16.1	16.6	7/8 S	3/8 S
FFWP-015Z	TFC	020	ZS09KAE-TF5	24.0	16.1	16.6	7/8 S	3/8 S
FFWP-015Z	TFD	020	ZS09KAE-TFD	24.0	16.1	16.6	7/8 S	3/8 S
FFWP-017Z	CFV	020	ZS11KAE-PFV	24.0	16.1	16.6	7/8 S	3/8 S
FFWP-017Z	TFC	020	ZS11KAE-TF5	24.0	16.1	16.6	7/8 S	3/8 S
FFWP-017Z	TFD	020	ZS11KAE-TFD	24.0	16.1	16.6	7/8 S	3/8 S
FFWP-020Z	CFV	020	ZS13KAE-PFV	24.0	16.1	16.6	7/8 S	3/8 S
FFWP-020Z	TFC	020	ZS13KAE-TF5	24.0	16.1	16.6	7/8 S	3/8 S
FFWP-020Z	TFD	020	ZS13KAE-TFD	24.0	16.1	16.6	7/8 S	3/8 S
FFWP-022Z	CFV	020	ZS15KAE-PFV	24.0	16.1	16.6	7/8 S	3/8 S
FFWP-022Z	TFC	020	ZS15KAE-TF5	24.0	16.1	16.6	7/8 S	3/8 S
FFWP-022Z	TFD	020	ZS15KAE-TFD	24.0	16.1	16.6	7/8 S	3/8 S
FFWP-030Z	CFV	020	ZS19KAE-PFV	24.1	16.1	16.6	7/8 S	3/8 S
FFWP-030Z	TFC	020	ZS19KAE-TF5	24.1	16.1	16.6	7/8 S	3/8 S
FFWP-030Z	TFD	020	ZS19KAE-TFD	24.1	16.1	16.6	7/8 S	3/8 S
FFWP-032Z	CFV	020	ZS21KAE-PFV	27.2	21.5	18.2	1 1/8 S	3/8 S
FFWP-032Z	TFC	020	ZS21KAE-TF5	27.2	21.5	18.2	1 1/8 S	3/8 S
FFWP-032Z	TFD	020	ZS21KAE-TFD	27.2	21.5	18.2	1 1/8 S	3/8 S
FFWP-040Z	CFV	020	ZS26KAE-PFV	27.5	21.0	21.1	1 1/8 S	1/2 S
FFWP-040Z	TFC	020	ZS26KAE-TF5	27.5	21.0	21.1	1 1/8 S	1/2 S
FFWP-040Z	TFD	020	ZS26KAE-TFD	27.5	21.0	21.1	1 1/8 S	1/2 S
FFWP-042Z	CFV	020	ZS33KAE-PFV	27.2	21.6	21.1	1 1/8 S	1/2 S
FFWP-042Z	TFC	020	ZS33KAE-TF5	27.2	21.6	21.1	1 1/8 S	1/2 S
FFWP-042Z	TFD	020	ZS33KAE-TFD	27.2	21.6	21.1	1 1/8 S	1/2 S
FFWP-050Z	CFV	020	ZS38K4E-PFV	27.5	21.7	21.1	1 1/8 S	1/2 S
FFWP-050Z	TFC	020	ZS38K4E-TF5	27.5	21.7	21.1	1 1/8 S	1/2 S
FFWP-050Z	TFD	020	ZS38K4E-TFD	27.5	21.7	21.1	1 1/8 S	1/2 S
FFWP-050Z	TFE	020	ZS38K4E-TFE	27.5	21.7	21.1	1 1/8 S	1/2 S
FJWM-C50Z	TFC	020	ZS45K4E-TF5	25.0	21.42	21.59	1/2 S	7/8 S
FJWM-C50Z	TFD	020	ZS45K4E-TFD	25.0	21.42	21.59	1/2 S	7/8 S

Physical and Electrical Data

Copeland welded water-cooled condensing units

Model	Electricals	BOM	Compressor Electrical	Length	Width	Height	Refrigerant Connections	
							Liquid	Suction
FJWF-C106	CAV	020	RST64C1E-CAV	24.23	17.32	11.87	3/8 S	7/8 S
F3WH-B105	CFV	020	RST70C1-PFV	24.33	19.07	12.76	3/8 S	5/8 S
F3WH-B105	TAC	020	RST70C1-TA5	24.33	19.07	12.76	3/8 S	5/8 S
FJWF-C125	CFV	020	RST70C1E-PFV	24.33	17.81	12.75	3/8 S	5/8 S
FJWF-C125	TAC	020	RST70C1E-TA5	24.33	17.81	12.75	3/8 S	5/8 S
FJWF-C126	CFV	020	RST80C1E-PFV	24.33	17.81	12.75	3/8 S	5/8 S
FJWF-C126	TAC	020	RST80C1E-TA5	24.33	17.81	12.75	3/8 S	5/8 S
FJWL-C105	CFV	020	RST80C1E-PFV	24.00	16.43	12.05	3/8 S	5/8 S
FJWL-C105	TAC	020	RST80C1E-TA5	24.00	16.55	12.00	3/8 S	5/8 S

Physical and Electrical Data

Copeland Scroll water-cooled condensing units

Model	Water Connections		Receiver Capacity (Lbs @ 90% Volume)					MCA	Max Fuse	Ship Weight (Lbs)
	In (FPT)	Out (OD)	R-134a	R-22	R-404A	R-407A	R-407C			
FFWP-015Z	3/8	5/8	13.1	12.9	11.2	12.2	11.4	12.5	20	107
FFWP-015Z	3/8	5/8	13.1	12.9	11.2	12.2	11.4	10.0	15	107
FFWP-015Z	3/8	5/8	13.1	12.9	11.2	12.2	11.4	4.8	15	107
FFWP-017Z	3/8	5/8	13.1	12.9	11.2	12.2	11.4	15.8	25	105
FFWP-017Z	3/8	5/8	13.1	12.9	11.2	12.2	11.4	13.0	20	105
FFWP-017Z	3/8	5/8	13.1	12.9	11.2	12.4	12.3	5.4	15	105
FFWP-020Z	3/8	5/8	13.1	12.9	11.2	12.4	12.3	15.0	25	107
FFWP-020Z	3/8	5/8	13.1	12.9	11.2	12.4	12.3	12.1	20	107
FFWP-020Z	3/8	5/8	13.1	12.9	11.2	12.4	12.3	6.0	15	107
FFWP-022Z	3/8	5/8	13.1	12.9	11.2	12.4	12.3	19.6	35	106
FFWP-022Z	3/8	5/8	13.1	12.9	11.2	12.4	12.3	13.3	20	106
FFWP-022Z	3/8	5/8	13.1	12.9	11.2	12.4	12.3	6.8	15	106
FFWP-030Z	3/8	5/8	13.1	12.9	11.2	12.4	12.3	22.5	40	105
FFWP-030Z	3/8	5/8	13.1	12.9	11.2	12.4	12.3	17.1	30	105
FFWP-030Z	3/8	5/8	13.1	12.9	11.2	12.4	12.3	8.1	15	105
FFWP-032Z	1/2	7/8	13.1	12.9	11.2	12.4	12.3	29.0	50	171
FFWP-032Z	1/2	7/8	13.1	12.9	11.2	12.4	12.3	19.0	30	171
FFWP-032Z	1/2	7/8	13.1	12.9	11.2	12.4	12.3	8.6	15	171
FFWP-040Z	3/4	7/8	21.5	21.1	18.4	20.2	20.1	29.5	50	191
FFWP-040Z	3/4	7/8	21.5	21.1	18.4	20.2	20.1	19.4	30	191
FFWP-040Z	3/4	7/8	21.5	21.1	18.4	20.2	20.1	8.6	15	191
FFWP-042Z	3/4	7/8	21.5	21.1	18.4	20.2	20.1	35.3	60	197
FFWP-042Z	3/4	7/8	21.5	21.1	18.4	20.2	20.1	27.9	50	197
FFWP-042Z	3/4	7/8	21.5	21.1	18.4	20.2	20.1	12.5	20	197
FFWP-050Z	3/4	7/8	21.5	21.1	18.4	20.2	20.1	39.8	70	220
FFWP-050Z	3/4	7/8	21.5	21.1	18.4	20.2	20.1	26.8	45	220
FFWP-050Z	3/4	7/8	21.5	21.1	18.4	20.2	20.1	12.0	20	220
FFWP-050Z	3/4	7/8	21.5	21.1	18.4	20.2	20.1	9.9	15	220
FJWM-C50Z	3/4	7/8			18.4			29.9	50	198
FJWM-C50Z	3/4	7/8			18.4			11.6	20	201

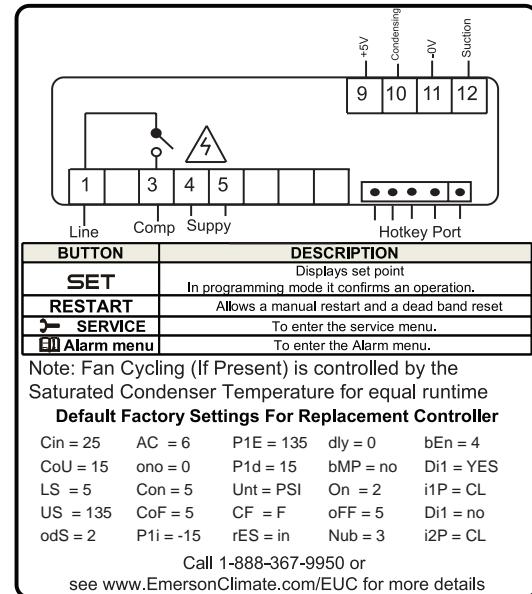
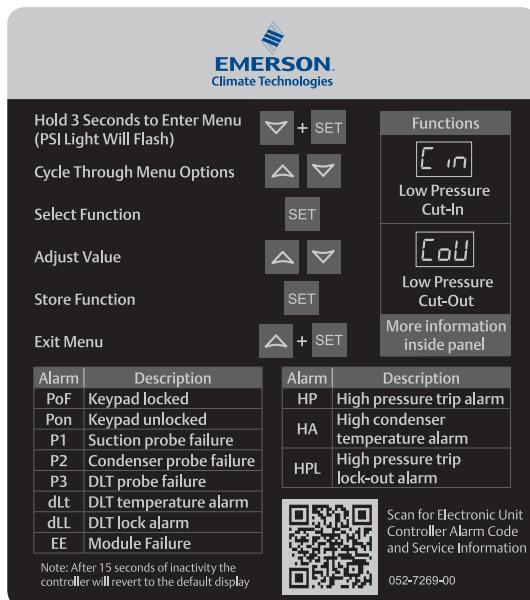
Physical and Electrical Data

Copeland welded water-cooled condensing units

Model	Water Connections		Receiver Capacity (Lbs @ 90% Volume)					MCA	Max Fuse	Ship Weight (Lbs)
	In (FPT)	Out (OD)	R-134a	R-22	R-404A	R-407A	R-407C			
FJWF-C106	3/8	1/2			6.4			11.3	20	83
F3WH-B105	3/8	1/2		12.9				9.6	15	91
F3WH-B105	3/8	1/2		12.9				6.1	15	75
FJWF-C125	3/8	1/2			11.2			9.6	15	85
FJWF-C125	3/8	1/2			11.2			6.9	15	90
FJWF-C126	3/8	1/2			11.2			11.6	20	85
FJWF-C126	3/8	1/2			11.2			7.1	15	89
FJWL-C105	3/8	1/2			6.4			12.2	20	115
FJWL-C105	3/8	1/2			6.4			7.7	15	88

Emerson™ Electronic Unit Controller (EUC)

Part #	Description
943-0152-00	115V Electronic Unit Controller
943-0153-00	230V Electronic Unit Controller
943-0154-00	115V Electronic Unit Controller with Fan Cycling
943-0155-00	230V Electronic Unit Controller with Fan Cycling
929-0114-00	Electronic Unit Controller Suction Pressure Transducer (150 PSIA)
929-0113-00	DLT Sensor Kit



Hood Selection

Copeland™ Model	Flex-Line Hood
FFAP-015Z	505-7066-01
FFAP-017Z	505-7066-01
FFAP-020Z	505-7066-02
FFAP-022Z	505-7066-02
FFAP-030Z	505-7066-02
FFAP-032Z	505-7066-02
FFAP-040Z	505-7066-03
FFAP-042Z	505-7066-03
FFAP-050Z	505-7066-03
FPAK-010Z	505-7066-01
FPAK-012Z	505-7066-01
FPAK-013Z	505-7066-01
FPAK-015Z	505-7066-01
FPAK-020Z	505-7066-02
FPAK-039Z	505-7066-02



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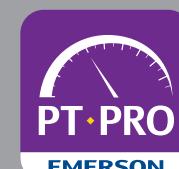
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Application Engineering Bulletins

- 4-1273 Factors to Consider in Converting Compressor Rated Capacity to Actual Capacity
- 4-1292 Medium Temperature R-22 Copelaweld Compressors
- 4-1295 HFC-134A Refrigerant Guidelines
- 4-1298 Extended Medium Temperature R-404A/507 Hermetic Compressors and Condensing Units
- 4-1299 Application Guidelines for Copeland Scroll Compressors 2 - 6 Horsepower
- 4-1302 Application Guidelines for Copeland Scroll Compressors 7.5 - 15 Horsepower
- 4-1305 "SystemPro" AF, AR, & AS Refrigeration Hermetic 1/8-1 Horsepower Compressors
- 4-1306 Application Guidelines for RF Low Temperature Refrigeration Compressors
- 4-1307 Application Guidelines for CF Refrigeration Compressors and Condensing Units
- 4-1317 Application Guidelines for ZBKC / ZBKCE Refrigeration Scroll Compressors 1.3 to 6 HP
- 4-1318 Application Guidelines for ZBKC / ZBKCE Refrigeration Scroll Compressors 7 to 15 HP
- 4-1344 Application Guidelines for RFT, RRT, RST Compressors
- 4-1387 Application Guidelines for ZS**KAE Copeland Scroll™ Refrigeration Compressors 1.3-4.5 HP
- 8-1376 Electronic Unit Controller
- 11-1147 Suction Accumulators
- 11-1297 Liquid Line Filter-Driers
- 17-1260 Compressor Overheating
- 17-1268 Compression Ratio as it Affects Compressor Reliability
- 22-1182 Liquid Refrigerant Control in Refrigeration and Air Conditioning Systems

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Copeland™ M-Line

Air-cooled and water-cooled condensing units



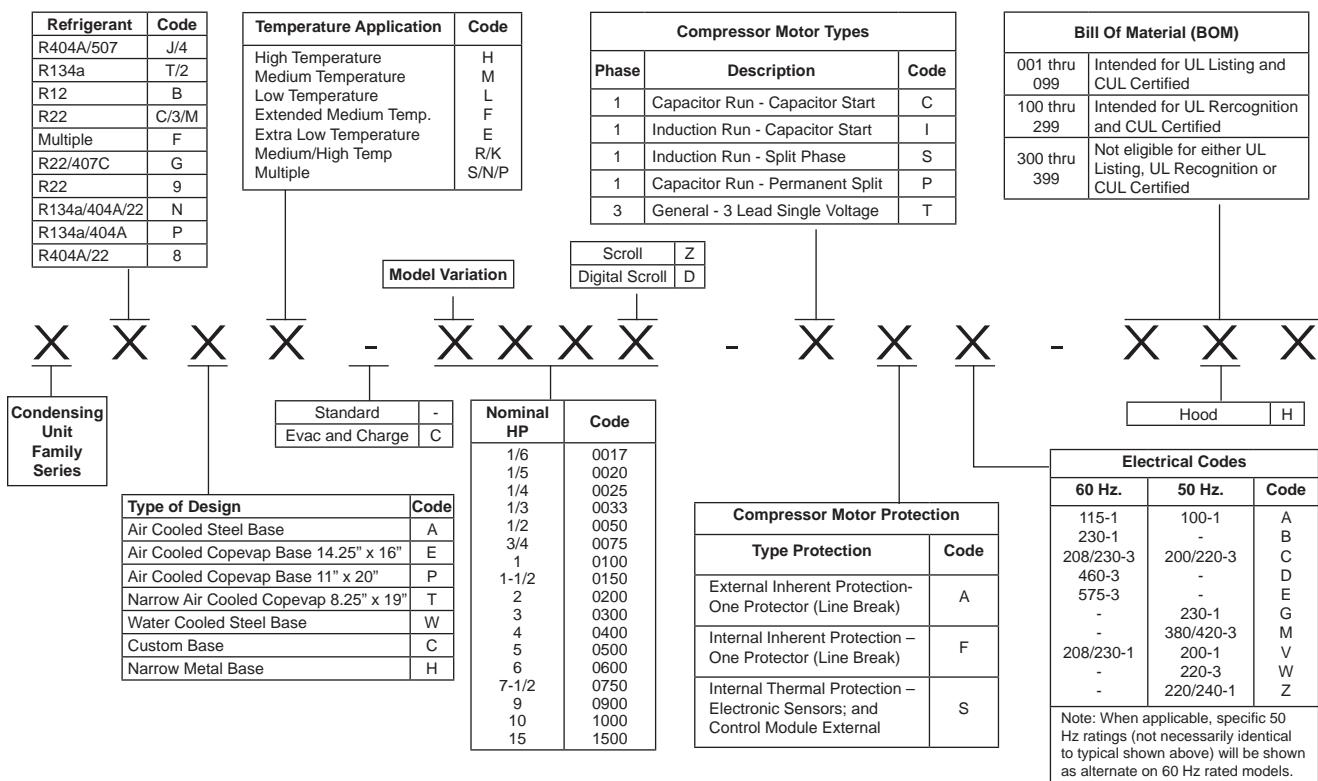
Product Information

Horsepower: 1/6 – 3/4
Refrigerants: R-12, R-134a, R-22, R-404A , R-407C



EMERSON™

Nomenclature • Welded Condensing Units



Bill of Materials Matrix

BOM		Options												UL						
Flare (Obsolete)	Sweat	Receiver W/ Valve	Suction Valve	Liquid Base Valve	Fan Guard	End Covers	Conduit	Power Cord	Accumulator†	Fan Cycling	Pressure Controls	Filter Drier	Moisture Indicator	Solenoid Valve	Crankcase Heater	Head Pressure Control Valve	Water Valve	CoreSense	Listed	Recognized
Air Cooled																				
106			X					X											X	
	007	X			X	X	X												X	
010	015	X	X		X	X	X		X	X					X			X		
	017		X	X	X	X	X											X		
	018				X	X	X											X		
001**	020	X	X		X	X	X											X		
	070	X			X	X	X		X			X	X					X		
	071	X			X	X	X		X	X		X	X		X			X		
	072	X			X	X	X					X	X					X		
	073	X			X	X	X			X		X	X	X				X		
	074	X			X	X	X					X	X	X				X		
	075	X			X	X	X					X	X		X	X		X		
	081	X			X	X	X		X	X		X	X		X		X	X		
	102							X										X		
109	103	X	X					X										X		
	108/908				X	X		X										X		
105	111		X	X					X									X		
	118/918	X‡			X	X			X									X		
	119	X							X									X		
203/204	208		X	X	X	X	X	X										X*		
201	212	X	X		X	X	X											X*		
	214				X	X	X											X*		
	216	X			X	X	X											X*		
	272	X			X	X	X					X	X					X*		
Water Cooled																				
001**	020	X	X					X									X	X		
	072	X	X					X				X	X				X	X		

* These recognized models are identical to the UL Listed models except without pressure control.

Need for the control is to be evaluated in the end use application.

**C-Line, W-Line, and FNAR products with a -001 BOM have sweat connections.

† Some units with Scroll compressors may have accumulators regardless of BOM.

‡ Receiver without valve.

BOMs with 4 or 6 as the middle digit are OEM special units.

Copeland™ air-cooled and water-cooled condensing units

Features

Copeland™ Hermetic Compressor and Heavy Duty Unit Bearing Fan Motor

Modular Components

Compact Design

All Models Rated Up To 110°F Ambient

Benefits

Reliability

High Energy Efficiency

Low Sound & Vibration

Replacement Serviceability

Application Flexibility

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Emerson Climate Technologies Creates Strategic Business Initiative Focused on CO2 June 02, 2014

Future Direction and Current Regulations for Air Conditioning Refrigerants Reviewed in White Paper from Emerson Climate Technologies May 19, 2014

Emerson Climate Technologies to Host "Making Sense of Natural Refrigerants" Webinar May 18, 2014

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R-404A Low Temp/EMT

Copeland air-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0	5	10	15	20	25
90° Ambient												
M4FL-H025	AFE08C4E	624	702	786	876	971	1060					
M4FL-0033	AFE11C3E	860	1040	1210	1390	1570	1750					
M4CL-0035	AFE13C3E	1290	1510	1730	1960	2210	2440					
M4FL-0040	AFE13C3E	1320	1550	1790	2040	2300	2560					
M4FL-H051	AFE17C4E	1480	1690	1910	2150	2410	2670					
M4CF-0050	RST45C1E	1490	1730	1980	2260	2550	2830	3170	3490	3820	4160	4500
M4FF-E050	RST45C1E	1330	1670	2010	2340	2670	2980	3330	3660	3990	4320	4660
M4FF-0050	RST45C1E	1330	1680	2010	2350	2680	2980	3330	3660	3980	4320	4660
M4FF-0056	RST45C1E	1430	1800	2150	2460	2800	3140	3530	3920	4330	4750	5180
M4FF-0059	RST45C1E	1450	1830	2210	2600	2990	3380	3790	4220	4660	5110	5590
M4FF-E075	RST55C1E	1860	2240	2640	3070	3510	3970	4470	4980	5510	6050	6610
M4FF-0075	RST55C1E	1880	2260	2660	3090	3540	4000	4500	5010	5550	6090	6660
M4FL-A067	RFT26C1E	2120	2450	2800	3170	3560	3960					
M4CL-0075	RST64C1E	2520	2930	3360	3790	4230	4650					
M4FF-0077	RST64C1E	2480	2910	3360	3840	4340	4830	5370	5890	6420	6950	7480
M4FF-0080	RST64C1E	2490	2930	3390	3880	4380	4880	5440	5980	6530	7080	7640
M4FL-0074	RST80C1E	3140	3600	4070	4570	5090	5600					
100° Ambient												
M4FL-H025	AFE08C4E	549	621	699	783	870	955					
M4FL-0033	AFE11C3E	690	850	1010	1180	1360	1530					
M4CL-0035	AFE13C3E	1070	1270	1480	1710	1940	2160					
M4FL-0040	AFE13C3E	1100	1310	1530	1770	2010	2240					
M4FL-H051	AFE17C4E	1330	1520	1720	1940	2170	2410					
M4CF-0050	RST45C1E	1270	1490	1720	1970	2240	2490	2810	3100	3400	3710	4020
M4FF-E050	RST45C1E	1110	1440	1760	2070	2370	2650	2960	3260	3550	3840	4140
M4FF-0050	RST45C1E	1120	1450	1770	2080	2380	2660	2970	3260	3550	3850	4140
M4FF-0056	RST45C1E	1210	1560	1870	2160	2470	2780	3140	3490	3860	4240	4630
M4FF-0059	RST45C1E	1230	1590	1950	2310	2670	3030	3410	3790	4190	4600	5020
M4FF-E075	RST55C1E	1550	1910	2280	2680	3090	3510	3970	4430	4910	5410	5920
M4FF-0075	RST55C1E	1570	1920	2300	2700	3120	3540	4010	4470	4960	5460	5980
M4FL-A067	RFT26C1E	1860	2160	2480	2820	3180	3530					
M4CL-0075	RST64C1E	2210	2600	2980	3380	3770	4150					
M4FF-0077	RST64C1E	2170	2580	3000	3440	3890	4340	4830	5300	5780	6260	6730
M4FF-0080	RST64C1E	2180	2590	3020	3470	3930	4380	4900	5380	5880	6380	6880
M4FL-0074	RST80C1E	2740	3160	3590	4050	4520	4970					
110° Ambient												
M4FL-H025	AFE08C4E		520	596	676	762	841					
M4FL-0033	AFE11C3E	520	670	830	990	1160	1320					
M4CL-0035	AFE13C3E		1040	1250	1470	1710	1940					
M4FL-0040	AFE13C3E	850	1060	1280	1500	1740	1970					
M4CF-0050	RST45C1E		1260	1470	1700	1940	2170	2460	2730	3010	3300	
M4FL-H051	AFE17C4E		1350	1530	1730	1940	2150					
M4FF-E050	RST45C1E		1220	1510	1790	2060	2300	2580	2840	3090	3350	
M4FF-0050	RST45C1E		1230	1520	1810	2080	2320	2600	2860	3110	3370	
M4FF-0056	RST45C1E	990	1330	1600	1860	2140	2430	2750	3070	3400	3750	4100
M4FF-0059	RST45C1E	1010	1350	1690	2020	2350	2670	3010	3350	3700	4060	4430
M4FF-E075	RST55C1E	1310	1630	1970	2330	2700	3080	3500	3910	4340	4780	5240
M4FF-0075	RST55C1E	1320	1650	1990	2360	2730	3120	3540	3960	4400	4850	5310
M4FL-A067	RFT26C1E	1610	1880	2160	2470	2790	3110					
M4CL-0075	RST64C1E		2240	2590	2940	3300	3620					
M4FF-0077	RST64C1E		2280	2660	3060	3470	3860	4310	4730	5160	5580	
M4FF-0080	RST64C1E		2290	2680	3080	3500	3910	4370	4800	5250	5690	6140
M4FL-0074	RST80C1E		2720	3110	3520	3940	4350					

Capacities rated at 40°F return gas (65°F return gas for capacities in bold), 5°F subcooling

R-404A Medium/High Temp

Copeland air-cooled condensing units

Model	Compressor	0	5	10	15	20	25	30	35	40	45
90° Ambient											
M4FM-E022	ASE12C4E	990	1110	1230	1360	1500	1640				
M4FM-H022	ASE12C4E	990	1110	1230	1360	1500	1640				
MFFP-H022	ASE12C4E	1000	1120	1250	1380	1520	1670				
M4FH-0025	ASE19C3E	1600	1730	1890	2060	2240	2430	2620	2820	3030	3240
M4FH-A036	ASE24C3E	2060	2300	2550	2810	3090	3370	3670	3990	4310	4650
M4FH-E050	ASE32C3E	2680	2980	3280	3590	3930	4300	4710	5170	5670	6310
M4FH-0050	ASE32C3E	2680	2990	3320	3660	4010	4380	4770	5180	5600	6040
100° Ambient											
M4FM-E022	ASE12C4E	880	990	1100	1210	1340	1460				
M4FM-H022	ASE12C4E	880	990	1100	1210	1340	1460				
MFFP-H022	ASE12C4E	890	1000	1110	1230	1350	1480				
M4FH-0025	ASE19C3E	1460	1560	1700	1870	2030	2220	2400	2620	2840	3030
M4FH-A036	ASE24C3E	1880	2100	2330	2580	2840	3100	3370	3660	3960	4290
M4FH-0050	ASE32C3E	2310	2600	2900	3220	3560	3910	4280	4680	5080	5520
M4FH-E050	ASE32C3E	2380	2670	2960	3250	3570	3930	4320	4760	5260	5910
110° Ambient											
M4FM-E022	ASE12C4E		860	960	1060	1160	1270				
M4FM-H022	ASE12C4E		860	960	1060	1160	1270				
MFFP-H022	ASE12C4E		870	970	1070	1180	1290				
M4FH-0025	ASE19C3E	1250	1390	1530	1690	1840	2020	2190			
M4FH-A036	ASE24C3E	1680	1890	2110	2340	2590	2840	3100	3390		
M4FH-0050	ASE32C3E	2150	2400	2660	2940	3240	3530	3850	4190		
M4FH-E050	ASE32C3E		2400	2690	3000	3320	3670	4070			

Capacities rated at 40°F return gas (65°F return gas for capacities in **bold**), 5°F subcooling

R-134a LT/EMT

Copeland air-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0	5	10	15	20	25
90° Ambient												
M2FL-H023	AFe05C4E	450	540	640	740	850	970					
M2CL-A025	AFe10C3E	720	820	940	1070	1210	1370					
M2FL-A025	AFe10C3E	720	820	940	1070	1210	1370					
M2CL-B033	AFe12C3E	850	960	1090	1240	1410	1590					
M2FL-B033	AFe12C3E	850	960	1090	1240	1410	1590					
M2FL-0050	RFT18C1E	1390	1720	2050	2390	2740	3080					
M2FF-0056	RFT18C1E	1470	1840	2200	2580	2970	3370	3780	4200	4630	5070	5520
M2FF-E056	RFT18C1E	1470	1840	2200	2580	2970	3370	3780	4200	4630	5070	5520
100° Ambient												
M2FL-H023	AFe05C4E	400	480	570	660	770	890					
M2CL-A025	AFe10C3E	670	760	870	1000	1130	1280					
M2FL-A025	AFe10C3E	670	760	870	1000	1130	1280					
M2CL-B033	AFe12C3E	770	880	1000	1150	1300	1480					
M2FL-B033	AFe12C3E	770	880	1000	1150	1300	1480					
M2FL-0050	RFT18C1E		1470	1800	2130	2460	2800					
M2FF-0056	RFT18C1E	1260	1610	1960	2330	2700	3080	3470	3860	4270	4690	5120
M2FF-E056	RFT18C1E	1260	1610	1960	2330	2700	3080	3470	3860	4270	4690	5120
110° Ambient												
M2FL-H023	AFe05C4E	340	420	500	590	690	790					
M2CL-A025	AFe10C3E		700	800	920	1050	1190					
M2FL-A025	AFe10C3E		700	800	920	1050	1190					
M2CL-B033	AFe12C3E		800	920	1050	1200	1360					
M2FL-B033	AFe12C3E		800	920	1050	1200	1360					
M2FL-0050	RFT18C1E					2190	2530					
M2FF-0056	RFT18C1E			1690	2040	2410	2780	3160	3540	3940	4340	4750
M2FF-E056	RFT18C1E			1690	2040	2410	2780	3160	3540	3940	4340	4750

Capacities rated at 40°F return gas, 5°F subcooling

R-134a Med/High Temp

Copeland air-cooled condensing units

Model	Compressor	0	5	10	15	20	25	30	35	40	45
90° Ambient											
M2FH-H017	ARE13C4E	620	710	810	920	1040	1170	1310	1460	1620	1790
M2FH-H020	ARE17C4E	780	890	1010	1150	1290	1440	1610	1780	1970	2180
M2FH-0024	ARE25C3E		1110	1310	1470	1640	1810	2000	2190	2390	2600
M2FH-0025	ARE27C3E	860	1080	1300	1510	1730	1950	2160	2390	2620	2850
M2FH-0026	ARE27C3E		1270	1530	1700	1890	2080	2280	2490	2710	2940
M2FH-A033	ARE37C3E		1500	1870	2110	2360	2620	2900	3190	3500	3820
M2FH-H040	ARE40C4E	1650	1860	2090	2330	2590	2860	3140	3420	3710	4000
M2FH-0040	ARE41C3E		1670	1970	2270	2570	2870	3170	3490	3810	4150
M2FH-H049	ARE51C4E	2150	2410	2690	3000	3340	3690	4070	4450	4850	5260
M2FH-H052	ARE51C4E	2190	2460	2760	3080	3440	3810	4200	4610	5030	5470
M2FH-A050	RRT62C1E	2320	2640	2970	3320	3680	4060	4470	4890	5340	5810
M2FM-0050	RRT64C1E	2540	2860	3200	3560	3940	4350				
M2FM-0059	RRT64C1E	2730	3090	3480	3900	4350	4830				
M2FH-A056	RRT64C1E	2870	3250	3660	4120	4600	5100	5630	6170	6720	7280
M2FH-0074	RRT81C1E	3510	4020	4560	5130	5730	6370	7030	7720	8420	9150
M2FH-E074	RRT81C1E	3510	4020	4560	5130	5740	6370	7030	7720	8420	9150
M2FH-0075	RRT81C1E	3520	4040	4580	5160	5780	6420	7100	7800	8520	9270
M2FM-0074	RRT10K1E	4150	4720	5280	5860	6450	7050				
M2FM-0075	RRT10K1E	4170	4750	5330	5910	6520	7140				
100° Ambient											
M2FH-H017	ARE13C4E	560	650	750	850	960	1080	1210	1350	1500	1660
M2FH-H020	ARE17C4E	720	820	940	1060	1200	1340	1500	1670	1850	2040
M2FH-0024	ARE25C3E		1080	1230	1390	1530	1710	1870	2050	2230	2420
M2FH-0025	ARE27C3E	730	950	1170	1380	1600	1810	2010	2230	2440	2650
M2FH-0026	ARE27C3E		1170	1400	1570	1710	1890	2080	2300	2520	2710
M2FH-A033	ARE37C3E		1350	1690	1920	2150	2420	2670	2970	3230	3490
M2FH-0040	ARE41C3E		1520	1790	2070	2350	2630	2910	3210	3510	
M2FH-H040	ARE40C4E	1530	1720	1930	2150	2390	2640	2890	3150	3410	
M2FH-H049	ARE51C4E	1980	2220	2490	2780	3090	3420	3760	4120	4490	
M2FH-H052	ARE51C4E	2020	2270	2550	2860	3190	3530	3900	4280	4680	5080
M2FH-A050	RRT62C1E	2120	2410	2710	3040	3370	3730	4110	4510	4940	5390
M2FM-0050	RRT64C1E		2610	2930	3270	3630	4000				
M2FM-0059	RRT64C1E	2500	2830	3190	3580	4000	4450				
M2FH-A056	RRT64C1E	2650	3010	3400	3820	4260	4730	5210	5700	6200	6690
M2FH-0074	RRT81C1E		3660	4170	4710	5270	5870	6490	7130	7800	8480
M2FH-E074	RRT81C1E		3660	4170	4710	5280	5870	6490	7130	7800	8480
M2FH-0075	RRT81C1E		3680	4190	4730	5310	5920	6550	7210	7890	8590
M2FM-0074	RRT10K1E		4290	4830	5360	5900	6460				
M2FM-0075	RRT10K1E		4320	4860	5400	5960	6530				
110° Ambient											
M2FH-H017	ARE13C4E	510	590	680	780	880	990	1110	1240	1370	1520
M2FH-H020	ARE17C4E	660	750	860	980	1100	1240	1390	1540	1710	1890
M2FH-0024	ARE25C3E			1140	1290	1420	1590	1740	1920		
M2FH-0025	ARE27C3E			1040	1260	1460	1660	1860			
M2FH-0026	ARE27C3E			1330	1470	1570	1740	1910	2100		
M2FH-A033	ARE37C3E			1520	1740	1970	2220	2440	2720		
M2FH-0040	ARE41C3E		1370	1630	1890	2140	2400				
M2FH-H040	ARE40C4E				2180	2400					
M2FH-H049	ARE51C4E				2800	3110					
M2FH-H052	ARE51C4E				2600	2910	3230	3570	3920		
M2FH-A050	RRT62C1E		2490	2790	3100	3440	3800				
M2FM-0050	RRT64C1E			2980							
M2FM-0059	RRT64C1E		2910	3270	3660	4070					
M2FH-A056	RRT64C1E		3100	3490	3900	4320	4750	5190			
M2FH-0074	RRT81C1E		3790	4290	4830	5380					
M2FH-E074	RRT81C1E		3790	4300	4830	5380					
M2FH-0075	RRT81C1E		3810	4320	4860	5420	6010				
M2FM-0074	RRT10K1E			4870	5370						
M2FM-0075	RRT10K1E			4910	5420						

Capacities rated at 40°F return gas (65°F return gas for capacities in **bold**), 5°F subcooling

R-407C Med/High Temp

Copeland air-cooled condensing units

Model	Compressor	0	5	10	15	20	25	30	35	40	45
90° Ambient											
MFFP-H022	ASE12C4E	910	1030	1170	1310	1470	1630	1810	2000	2190	2390
M4FH-0025	ASE19C3E	1130	1340	1560	1790	2030	2280	2540	2810	3100	3400
M4FH-A036	ASE24C3E	1360	1610	1880	2160	2450	2760	3080	3420	3780	4160
M4FH-0050	ASE32C3E		2320	2650	3010	3400	3800	4230	4670	5130	5610
M4FF-0059	RST45C1E	2700	3090	3520	4000	4530	5090	5690	6330	6990	7680
M4FF-0075	RST55C1E	3340	3840	4370	4940	5540	6190	6880	7620	8390	9210
100° Ambient											
MFFP-H022	ASE12C4E		950	1080	1210	1360	1520	1680	1850	2030	2220
M4FH-0025	ASE19C3E		1190	1400	1610	1840	2070	2310	2560	2830	3100
M4FH-A036	ASE24C3E		1420	1670	1940	2210	2490	2790	3100	3430	3770
M4FH-0050	ASE32C3E			2390	2720	3070	3450	3840	4240	4670	5110
M4FF-0059	RST45C1E		2820	3220	3670	4160	4680	5230	5820	6430	7070
M4FF-0075	RST55C1E		3520	4010	4530	5090	5680	6310	6980	7690	8440
110° Ambient											
MFFP-H022	ASE12C4E			980	1110	1240	1390	1540	1700	1860	2030
M4FH-0025	ASE19C3E			1220	1420	1630	1850	2070	2300		
M4FH-A036	ASE24C3E			1470	1720	1970	2240	2510	2790		
M4FH-0050	ASE32C3E				2430	2750	3090	3440			
M4FF-0059	RST45C1E			2930	3340	3790	4270	4780	5320	5880	6460
M4FF-0075	RST55C1E			3640	4110	4620	5160	5730	6340	6980	

Capacities rated at 65°F return gas, 5°F subcooling

R-22 Med/High Temp

Copeland air-cooled condensing units

Model	Compressor	0	5	10	15	20	25	30	35	40	45
90° Ambient											
MCFH-A022	ASE12C4	960	1080	1210	1350	1500	1650	1810	1980	2150	2330
MCFH-B027	ASE20C4	1550	1750	1960	2180	2430	2680	2940	3220	3500	3790
MCFH-A036	ASE20C4	1610	1820	2050	2290	2560	2830	3130	3440	3760	4100
MCFH-B036	ASE26C4	1930	2180	2450	2740	3060	3400	3750	4130	4520	4930
MCFH-A049	ASE35C4	2370	2680	3010	3360	3730	4120	4530	4960	5390	5840
MCFH-A056	RST40C1	2490	2810	3170	3560	3990	4460	4950	5470	6010	6570
MCFH-0078	RST55C1	3650	4120	4640	5220	5840	6520	7240	7990	8770	9580
100° Ambient											
MCFH-A022	ASE12C4		990	1110	1240	1380	1530	1670	1830	1980	2140
MCFH-B027	ASE20C4		1600	1800	2010	2240	2470	2710	2970	3220	3480
MCFH-A036	ASE20C4		1670	1880	2110	2350	2610	2880	3170	3460	3770
MCFH-B036	ASE26C4		1990	2250	2520	2820	3130	3450	3800	4160	4530
MCFH-A049	ASE35C4		2440	2750	3080	3420	3780	4150	4540	4940	5350
MCFH-A056	RST40C1		2590	2920	3290	3690	4120	4580	5060	5570	6090
MCFH-0078	RST55C1		3790	4280	4810	5400	6030	6700	7410	8140	8900
110° Ambient											
MCFH-A022	ASE12C4			1010	1130	1260	1390	1520			
MCFH-B027	ASE20C4			1630	1830	2040	2250	2480			
MCFH-A036	ASE20C4			1710	1920	2150	2380	2630	2890	3160	3440
MCFH-B036	ASE26C4			2050	2300	2570	2860	3160	3470	3800	4140
MCFH-A049	ASE35C4				2800	3110	3440	3780			
MCFH-A056	RST40C1			2670	3010	3390	3790	4220	4670	5140	5630
MCFH-0078	RST55C1			3920	4420	4970	5550	6180	6840	7530	

Capacities rated at 65°F return gas, 5°F subcooling

R-12 Low Temp

Unit Model	Compressor	-30	-25	-20	-15	-10	-5	0
90° Ambient								
MBFL-A034	AFE12C4	840	960	1110	1270	1460	1650	1860
100° Ambient								
MBFL-A034	AFE12C4		890	1020	1170	1340	1520	1710
110° Ambient								
MBFL-A034	AFE12C4				1070	1220	1370	1540

Capacities rated at 40°F return gas, 5°F subcooling

R-12 Med/High Temp

Model	Compressor	0	5	10	15	20	25	30	35	40	45
90° Ambient											
MBFH-B026	ARE29C4	1100	1240	1380	1520	1680	1840	2000	2170	2350	2530
MBFS-A033	ARE40C4	1490	1670	1860	2050	2260	2470	2690	2920	3160	
MBFH-A049	ARE51C4	1980	2230	2490	2760	3050	3350	3660	3990	4330	4690
MBFH-A050	RRT62C1	2360	2680	3010	3350	3700	4070	4440	4820	5210	5620
MBAM-0050	RRT64C1	2570	2920	3260	3610	3980	4350				
MBAH-0075	RRT81C1	3860	4390	4930	5480	6050	6640	7250	7870	8520	9180
MBAM-0075	RRT10K1	4320	4900	5490	6100	6720	7360				
100° Ambient											
MBFH-B026	ARE29C4		1150	1290	1430	1570	1720	1880	2040		
MBFS-A033	ARE40C4			1730	1920	2110	2310				
MBFH-A049	ARE51C4	1830	2060	2310	2560	2830	3120	3420	3730	4050	4400
MBFH-A050	RRT62C1		2480	2790	3110	3430	3770	4110	4470	4840	5210
MBAM-0050	RRT64C1			3020	3350	3690	4030				
MBAH-0075	RRT81C1		4060	4560	5080	5610	6160	6730	7310	7920	8540
MBAM-0075	RRT10K1			5090	5660	6240	6830				
110° Ambient											
MBFH-B026	ARE29C4					1460					
MBFH-A049	ARE51C4				2380	2630	2900				
MBFH-A050	RRT62C1			2580	2880	3180	3490	3800			
MBAH-0075	RRT81C1				4720	5210	5720				
MBAM-0075	RRT10K1				5260	5800					

Capacities rated at 65°F return gas, 5°F subcooling

Physical and Electrical Data

Copeland air-cooled condensing units

Model	BOM	Compressor Electrical	Length	Width	Height	Refrigerant Connections	
						Liquid	Suction
M2CL-A025-IAA	111	AFE10C3E-IAA	17.38	12.09	9.73	1/4 S	3/8 S
M2FF-0056-CFA	212	RFT18C1E-PFA	17.38	14.38	12.56	1/4 S	5/8 S
M2FF-E056-CFA	212	RFT18C1E-PFA	17.50	14.38	12.56	1/4 S	5/8 S
M2FH-0024-SAA	102, 111	ARE25C3E-SAA	13.82	11.05	9.67	1/4 S	5/16 S
M2FH-0025-IAA	018	ARE27C3E-IAA	13.72	11.49	9.62	1/4 S	5/16 S
M2FH-0026-IAA	020	ARE27C3E-IAA	13.96	11.81	9.67	1/4 S	3/8 S
M2FH-0026-IAA	103, 111	ARE27C3E-IAA	13.82	11.53	9.67	1/4 S	3/8 S
M2FH-0026-IAA	072	ARE27C3E-IAA	14.46	11.98	11.36	1/4 S	3/8 S
M2FH-0026-IAA	102	ARE27C3E-IAA	13.64	11.05	9.67	1/4 S	5/16 S
M2FH-0040-IAA	212	ARE41C3E-IAA	16.35	12.32	8.13	1/4 S	3/8 S
M2FH-0074-CFA	272	RRT81C1E-PFA	17.50	14.39	12.50	1/4 S	5/8 S
M2FH-0074-CFA	212	RRT81C1E-PFA	17.50	14.38	11.82	1/4 S	5/8 S
M2FH-0074-CFV	212	RRT81C1E-PFV	17.50	14.39	11.92	1/4 S	5/8 S
M2FH-0074-CFV	272	RRT81C1E-PFV	17.50	14.39	12.50	1/4 S	5/8 S
M2FH-0075-CFA	212	RRT81C1E-PFA	24.00	17.33	13.07	3/8 S	5/8 S
M2FH-0075-CFV	020, 212	RRT81C1E-PFV	24.00	17.50	13.07	3/8 S	5/8 S
M2FH-A033-IAA	103, 111, 208, 212	ARE37C3E-IAA	13.82	11.47	9.67	1/4 S	3/8 S
M2FH-A033-IAA	102	ARE37C3E-IAA	13.82	11.05	9.67	1/4 S	5/16 S
M2FH-A033-IAA	272	ARE37C3E-IAA	14.42	12.80	11.36	1/4 S	3/8 S
M2FH-A033-IAV	103, 111, 208, 212	ARE37C3E-IAV	13.82	11.47	9.67	1/4 S	3/8 S
M2FH-A033-IAV	272	ARE37C3E-IAV	14.42	12.80	11.36	1/4 S	3/8 S
M2FH-A050-IAA	103	RRT62C1E-IAA	17.45	14.07	11.70	1/4 S	3/8 S
M2FH-A050-IAA	111	RRT62C1E-IAA	17.45	13.67	11.70	1/4 S	3/8 S
M2FH-A050-IAA	212	RRT62C1E-IAA	16.58	14.18	11.74	1/4 S	3/8 S
M2FH-A050-IAA	272	RRT62C1E-IAA	16.60	13.80	11.74	1/4 S	3/8 S
M2FH-A050-IAV	103	RRT62C1E-IAV	17.07	13.68	11.75	1/4 S	3/8 S
M2FH-A050-IAV	212	RRT62C1E-IAV	16.60	13.70	11.74	1/4 S	3/8 S
M2FH-A056-IAA	103	RRT64C1E-IAA	17.76	14.18	11.82	1/4 S	3/8 S
M2FH-A056-IAA	212, 272	RRT64C1E-IAA	17.76	14.46	11.82	1/4 S	3/8 S
M2FH-A056-IAA	111	RRT64C1E-IAA	17.76	14.18	11.82	1/4 S	3/8 S
M2FH-A056-IAV	212, 272	RRT64C1E-IAV	17.76	14.46	11.82	1/4 S	3/8 S
M2FH-A056-IAV	103	RRT64C1E-IAV	18.20	14.05	11.82	1/4 S	3/8 S
M2FH-E033-IAA	212	ARE37C3E-IAA	13.96	11.81	9.67	1/4 S	3/8 S
M2FH-E049-CAA	212	ARE51C4E-CAA	16.14	13.13	11.73	1/4 S	3/8 S
M2FH-E056-IAA	212	RRT64C1E-IAA	17.76	14.46	11.82	1/4 S	3/8 S
M2FH-E074-CFA	212	RRT81C1E-PFA	17.50	14.38	11.82	1/4 S	5/8 S
M2FH-H017-IAA	103	ARE13C4E-IAA	13.94	11.47	9.67	1/4 S	3/8 S
M2FH-H017-IAA	111	ARE13C4E-IAA	13.64	11.26	9.67	1/4 S	3/8 S
M2FH-H020-IAA	102, 111	ARE17C4E-IAA	13.94	11.05	9.67	1/4 S	5/16 S
M2FH-H040-IAA	272	ARE40C4E-IAA	16.64	12.42	9.71	1/4 S	3/8 S
M2FH-H049-CAA	111	ARE51C4E-CAA	16.18	12.69	11.74	1/4 S	3/8 S
M2FH-H049-CAA	103	ARE51C4E-CAA	16.20	12.90	11.70	1/4 S	3/8 S
M2FH-H049-CAA	212	ARE51C4E-CAA	16.14	13.13	11.73	1/4 S	3/8 S
M2FH-H049-CAA	272	ARE51C4E-CAA	16.58	13.15	11.69	1/4 S	3/8 S
M2FH-H049-IAV	212	ARE51C4E-IAV	16.18	13.08	11.74	1/4 S	3/8 S
M2FH-H049-IAV	214	ARE51C4E-IAV	16.18	13.08	11.74	1/4 S	5/16 S
M2FH-H052-CAA	212	ARE51C4E-CAA	16.18	13.08	11.74	1/4 S	3/8 S
M2FL-0050-CFA	111	RFT18C1E-PFA	16.13	12.68	12.50	1/4 S	1/2 S
M2FL-0050-CFA	119	RFT18C1E-PFA	16.13	13.08	12.50	1/4 S	1/2 S
M2FL-0050-CFA	212	RFT18C1E-PFA	16.00	13.08	12.50	1/4 S	1/2 S
M2FL-A025-IAA	103	AFE10C3E-IAA	13.81	11.66	9.67	1/4 S	3/8 S
M2FL-A025-IAA	111	AFE10C3E-IAA	13.82	11.25	9.67	1/4 S	3/8 S
M2FL-A025-IAA	020	AFE10C3E-IAA	13.82	11.65	9.62	1/4 S	3/8 S
M2FL-B033-IAA	103	AFE12C3E-IAA	13.81	11.66	9.67	1/4 S	3/8 S
M2FL-B033-IAA	111	AFE12C3E-IAA	13.82	11.25	9.67	1/4 S	3/8 S
M2FL-B033-IAA	020	AFE12C3E-IAA	14.01	11.83	9.62	1/4 S	3/8 S
M2FL-H023-IAA	111	AFE05C4E-IAA	13.64	11.26	9.67	1/4 S	3/8 S
M2FL-H040-IAA	212	AFE12C4E-IAA	16.57	12.41	9.61	1/4 S	3/8 S
M2FL-H040-IAA	111	AFE12C4E-IAA	16.53	12.16	9.71	1/4 S	3/8 S
M2FL-H040-IAA	103	AFE12C4E-IAA	16.53	12.43	9.71	1/4 S	3/8 S
M2FM-0050-IAA	212	RRT64C1E-IAA	16.16	13.68	11.73	1/4 S	1/2 S
M2FM-0050-IAV	212	RRT64C1E-IAV	16.16	13.68	11.73	1/4 S	1/2 S
M2FM-0059-IAA	102	RRT64C1E-IAA	17.38	13.99	11.82	1/4 S	3/8 S
M2FM-0074-CFA	212	RRT10K1E-PFA	17.50	14.38	11.82	3/8 S	5/8 S

Physical and Electrical Data

Copeland air-cooled condensing units

Model	Receiver Capacity (Lbs @ 90% Volume)					MCA	Max Fuse	Ship Weight
	R-12	R-134a	R-22	R-404A	R-407C			
M2CL-A025-IAA						6.9	15	40
M2FF-0056-CFA	3.7					13.8	20	60
M2FF-E056-CFA	3.7					13.5	20	
M2FH-0024-SAA						6.3	15	37
M2FH-0025-IAA						6.9	15	42
M2FH-0026-IAA	2.2					6.9	15	39
M2FH-0026-IAA	2.2					6.9	15	38
M2FH-0026-IAA	2.2					6.9	15	42
M2FH-0026-IAA						6.9	15	36
M2FH-0040-IAA	2.2					10.2	15	45
M2FH-0074-CFA	3.7					18.0	25	75
M2FH-0074-CFA	3.7					18.0	25	72
M2FH-0074-CFV	3.7					9.1	15	68
M2FH-0074-CFV	3.7					9.1	15	55
M2FH-0075-CFA	7.4					18.3	25	90
M2FH-0075-CFV	7.4					9.3	15	85
M2FH-A033-IAA	2.2					9.9	15	36
M2FH-A033-IAA						9.9	15	37
M2FH-A033-IAA	2.2					9.9	15	42
M2FH-A033-IAV	2.2					4.9	15	37
M2FH-A033-IAV	2.2					4.9	15	46
M2FH-A050-IAA	2.8					12.8	20	55
M2FH-A050-IAA						12.8	20	50
M2FH-A050-IAA	2.8					12.8	20	62
M2FH-A050-IAA	2.8					12.8	20	55
M2FH-A050-IAV	2.8					6.0	15	48
M2FH-A050-IAV	2.8					6.0	15	60
M2FH-A056-IAA	2.8					15.5	20	50
M2FH-A056-IAA	2.8					15.5	20	66
M2FH-A056-IAA						15.5	20	40
M2FH-A056-IAV	2.8					9.0	15	66
M2FH-A056-IAV	2.8					9.0	15	
M2FH-E033-IAA	2.2					9.6	15	
M2FH-E049-CAA	2.8					9.6	15	
M2FH-E056-IAA	2.8					15.2	20	
M2FH-E074-CFA	3.7					17.7	25	70
M2FH-H017-IAA	2.2					6.0	15	120
M2FH-H017-IAA						6.0	15	26
M2FH-H020-IAA						6.0	15	39
M2FH-H040-IAA	2.2					9.6	15	
M2FH-H049-CAA						14.0	20	50
M2FH-H049-CAA	2.8					14.0	20	48
M2FH-H049-CAA	2.8					14.0	20	49
M2FH-H049-CAA	2.8					14.0	20	125
M2FH-H049-IAV	2.8					6.7	15	43
M2FH-H049-IAV						6.7	15	
M2FH-H052-CAA	2.8					14.0	20	
M2FL-0050-CFA						13.0	20	63
M2FL-0050-CFA	2.8					13.0	20	
M2FL-0050-CFA	2.8					13.0	20	67
M2FL-A025-IAA	2.2					6.9	15	36
M2FL-A025-IAA						6.9	15	37
M2FL-A025-IAA	2.2					6.9	15	40
M2FL-B033-IAA	2.2					6.7	15	47
M2FL-B033-IAA						6.7	15	38
M2FL-B033-IAA	2.2					6.7	15	40
M2FL-H023-IAA						5.4	15	34
M2FL-H040-IAA	2.2					9.0	15	31
M2FL-H040-IAA						9.0	15	87
M2FL-H040-IAA	2.2					9.0	15	100
M2FM-0050-IAA	2.8					14.6	20	45
M2FM-0050-IAV	2.8					8.6	15	45
M2FM-0059-IAA						15.5	20	58
M2FM-0074-CFA	3.7					18.7	30	76

*Reciever capacity applies only to units with receivers. See BOM Matrix for included components.

Physical and Electrical Data

Copeland air-cooled condensing units

Model	BOM	Compressor Electrical	Length	Width	Height	Refrigerant Connections	
						Liquid	Suction
M2FM-0075-CFA	020	RRT10K1E-PFA	24.00	17.50	13.07	3/8 S	5/8 S
M2FM-0075-CFV	020, 212	RRT10K1E-PFV	24.00	17.50	13.07	3/8 S	5/8 S
M4CF-0050-IAA	212	RST45C1E-IAA	21.25	13.40	11.73	1/4 S	1/2 S
M4CL-0035-IAA	212	AFE13C3E-IAA	13.81	11.82	9.63	1/4 S	5/16 S
M4CL-0075-CAV	212	RST64C1E-CAV	21.25	13.33	11.66	1/4 S	5/8 S
M4CL-0075-CFA	212	RST64C1E-CFA	21.25	13.33	11.66	1/4 S	5/8 S
M4FF-0050-IAA	208, 212	RST45C1E-IAA	16.13	13.68	11.73	1/4 S	1/2 S
M4FF-0050-IAV	212	RST45C1E-IAV	16.13	13.74	11.73	1/4 S	1/2 S
M4FF-0056-CAA	212	RST45C1E-CAA	17.50	14.38	11.82	1/4 S	5/8 S
M4FF-0056-IAA	103	RST45C1E-IAA	17.38	13.99	11.82	1/4 S	5/8 S
M4FF-0056-IAA	212	RST45C1E-IAA	17.50	14.38	11.82	1/4 S	5/8 S
M4FF-0056-IAA	214	RST45C1E-IAA	17.50	14.38	11.82	1/4 S	3/8 S
M4FF-0056-IAA	272	RST45C1E-IAA	17.38	14.38	11.82	1/4 S	5/8 S
M4FF-0056-IAV	020	RST45C1E-IAV	17.50	14.90	12.11	1/4 S	5/8 S
M4FF-0056-IAV	103	RST45C1E-IAV	17.38	13.99	11.82	1/4 S	5/8 S
M4FF-0056-IAV	212	RST45C1E-IAV	17.50	14.38	11.82	1/4 S	5/8 S
M4FF-0056-IAV	272	RST45C1E-IAV	17.38	14.38	11.82	1/4 S	5/8 S
M4FF-0059-IAA	272	RST45C1E-IAA	24.00	17.11	13.06	3/8 S	5/8 S
M4FF-0059-IAV	272	RST45C1E-IAV	24.00	17.13	13.01	3/8 S	5/8 S
M4FF-0075-CAA	020, 212, 272	RST55C1E-CAA	24.00	17.06	13.07	3/8 S	5/8 S
M4FF-0075-CAV	020, 212, 272	RST55C1E-CAV	24.00	17.06	13.07	3/8 S	5/8 S
M4FF-0077-CFA	208, 212	RST64C1E-CFA	17.51	14.39	11.82	1/4 S	5/8 S
M4FF-0077-IAV	208, 212	RST64C1E-IAV	17.49	14.39	11.82	1/4 S	5/8 S
M4FF-0080-CAV	020, 212	RST64C1E-CAV	24.00	16.89	13.07	3/8 S	5/8 S
M4FF-0080-CAV	072	RST64C1E-CAV	24.00	16.97	13.08	3/8 S	5/8 S
M4FF-0080-CFA	020, 212	RST64C1E-CFA	24.00	16.89	13.07	3/8 S	5/8 S
M4FF-0080-CFA	017	RST64C1E-CFA	24.00	16.34	13.08	3/8 S	5/8 S
M4FF-0080-IAV	020, 212	RST64C1E-IAV	24.00	16.86	13.07	3/8 S	5/8 S
M4FF-0080-IAV	072, 075	RST64C1E-IAV	24.00	16.97	13.08	3/8 S	5/8 S
M4FF-E050-IAA	212	RST45C1E-IAA	16.13	13.68	11.73	1/4 S	1/2 S
M4FF-E075-CAA	212	RST55C1E-CAA	24.00	17.06	13.02	3/8 S	5/8 S
M4FF-E075-CAV	212	RST55C1E-CAV	24.00	16.34	13.02	3/8 S	5/8 S
M4FF-E080-CAV	212	RST64C1E-CAV	24.00	16.89	13.07	3/8 S	5/8 S
M4FH-0025-IAA	212	ASE19C3E-IAA	13.96	11.81	9.67	1/4 S	3/8 S
M4FH-0025-IAA	103	ASE19C3E-IAA	13.82	11.47	9.67	1/4 S	3/8 S
M4FH-0025-IAA	111	ASE19C3E-IAA	13.94	11.28	9.67	1/4 S	3/8 S
M4FH-0025-IAA	272	ASE19C3E-IAA	14.46	11.99	11.36	1/4 S	3/8 S
M4FH-0050-CAA	111	ASE32C3E-CAA	16.18	12.72	11.81	1/4 S	3/8 S
M4FH-0050-CAA	103	ASE32C3E-CAA	16.20	12.97	11.75	1/4 S	3/8 S
M4FH-0050-CAA	272	ASE32C3E-CAA	16.30	13.08	11.73	1/4 S	3/8 S
M4FH-0050-CAV	103	ASE32C3E-CAV	16.20	12.97	11.75	1/4 S	3/8 S
M4FH-0050-CAV	272	ASE32C3E-CAV	16.30	13.08	11.73	1/4 S	3/8 S
M4FH-A036-IAA	103	ASE24C3E-IAA	16.00	12.82	11.74	1/4 S	3/8 S
M4FH-A036-IAA	111, 208	ASE24C3E-IAA	16.06	12.69	11.78	1/4 S	3/8 S
M4FH-A036-IAA	212	ASE24C3E-IAA	16.18	13.11	11.73	1/4 S	3/8 S
M4FH-A036-IAA	272	ASE24C3E-IAA	16.64	13.08	11.73	1/4 S	3/8 S
M4FH-A036-IAV	103	ASE24C3E-IAV	16.00	12.82	11.74	1/4 S	3/8 S
M4FH-A036-IAV	208, 212	ASE24C3E-IAV	16.06	13.08	11.73	1/4 S	3/8 S
M4FH-A036-IAV	272	ASE24C3E-IAV	16.30	13.08	11.73	1/4 S	3/8 S
M4FH-E025-IAA	212	ASE19C3E-IAA	13.96	11.81	9.67	1/4 S	3/8 S
M4FH-E050-CAA	212	ASE32C3E-CAA	16.18	13.08	11.73	1/4 S	3/8 S
M4FL-0033-IAA	017, 111	AFE11C3E-IAA	13.98	11.54	9.62	1/4 S	3/8 S
M4FL-0033-IAA	020	AFE11C3E-IAA	13.96	11.81	9.67	1/4 S	3/8 S
M4FL-0033-IAA	103	AFE11C3E-IAA	13.82	11.47	9.67	1/4 S	3/8 S
M4FL-0033-IAA	072	AFE11C3E-IAA	14.42	12.80	11.36	1/4 S	3/8 S
M4FL-0040-IAA	272	AFE13C3E-IAA	16.64	13.08	11.73	1/4 S	3/8 S
M4FL-0040-IAA	103	AFE13C3E-IAA	16.06	13.03	11.74	1/4 S	3/8 S
M4FL-0040-IAA	111, 208	AFE13C3E-IAA	16.06	12.69	11.74	1/4 S	3/8 S
M4FL-0040-IAV	272	AFE13C3E-IAV	16.64	13.08	11.73	1/4 S	3/8 S
M4FL-0074-CFA	214	RST80C1E-PFA	17.50	14.39	12.09	1/4 S	1/2 S
M4FL-A067-CAA	103, 111	RFT26C1E-CAA	17.76	14.13	11.82	1/4 S	1/2 S
M4FL-A067-CAA	212, 272	RFT26C1E-CAA	17.76	14.46	11.82	1/4 S	1/2 S
M4FL-A067-CAV	212, 272	RFT26C1E-CAV	17.76	14.46	11.82	1/4 S	1/2 S
M4FL-H025-IAA	020	AFE08C4E-IAA	13.98	11.83	9.63	1/4 S	3/8 S

Physical and Electrical Data

Copeland air-cooled condensing units

Model	Receiver Capacity (Lbs @ 90% Volume)					MCA	Max Fuse	Ship Weight
	R-12	R-134a	R-22	R-404A	R-407C			
M2FM-0075-CFA	7.4					19.0	30	88
M2FM-0075-CFV	7.4					11.2	15	100
M4CF-0050-IAA			2.4			14.0	20	68
M4CL-0035-IAA			1.9			8.9	15	39
M4CL-0075-CAV			4.1			12.3	20	78
M4CL-0075-CFA			4.1			20.0	30	77
M4FF-0050-IAA			2.4			14.0	20	61
M4FF-0050-IAV			2.4			7.2	15	60
M4FF-0056-CAA			3.2			14.8	20	71
M4FF-0056-IAA			3.2			14.8	20	64
M4FF-0056-IAA			3.2			14.8	20	65
M4FF-0056-IAA						14.8	20	59
M4FF-0056-IAA			3.2			14.8	20	67
M4FF-0056-IAV			3.2			7.6	15	65
M4FF-0056-IAV			3.2			7.6	15	65
M4FF-0056-IAV			3.2			7.6	15	65
M4FF-0056-IAV			3.2			7.6	15	69
M4FF-0059-IAA		6.3	6.9			15.1	20	
M4FF-0059-IAV		6.3	6.9			7.8	15	64
M4FF-0075-CAA		6.3	6.9			20.8	30	86
M4FF-0075-CAV		6.3	6.9			9.7	15	87
M4FF-0077-CFA		3.2				20.0	30	71
M4FF-0077-IAV		3.2				12.3	20	65
M4FF-0080-CAV		4.1				12.4	20	81
M4FF-0080-CAV		4.1				12.4	20	87
M4FF-0080-CFA		4.1				20.3	30	86
M4FF-0080-CFA						20.3	30	
M4FF-0080-IAV		4.1				12.4	20	82
M4FF-0080-IAV		4.1				12.4	20	81
M4FF-E050-IAA		2.4				13.7	20	
M4FF-E075-CAA		6.3				19.9	30	83
M4FF-E075-CAV		6.3	6.9			9.6	15	
M4FF-E080-CAV		4.1				12.3	20	
M4FH-0025-IAA		1.9	2			10.7	15	39
M4FH-0025-IAA		1.9	2			10.7	15	40
M4FH-0025-IAA						10.7	15	40
M4FH-0025-IAA		1.9	2			10.7	15	44
M4FH-0050-CAA						12.3	20	46
M4FH-0050-CAA		2.4	2.6			12.3	20	50
M4FH-0050-CAA		2.4	2.6			12.3	20	52
M4FH-0050-CAV		2.4	2.6			6.7	15	51
M4FH-0050-CAV		2.4	2.6			6.7	15	53
M4FH-A036-IAA		2.4	2.6			8.4	15	45
M4FH-A036-IAA						8.4	15	41
M4FH-A036-IAA		2.4	2.6			8.4	15	45
M4FH-A036-IAA		2.4	2.6			8.4	15	47
M4FH-A036-IAV		2.4	2.6			5.9	15	45
M4FH-A036-IAV		2.4	2.6			5.9	15	45
M4FH-A036-IAV		2.4	2.6			5.9	15	
M4FH-E025-IAA		1.9				10.6	15	
M4FH-E050-CAA		2.4				12.1	20	46
M4FL-0033-IAA						7.7	15	41
M4FL-0033-IAA		1.9				7.7	15	38
M4FL-0033-IAA		1.9				7.7	15	38
M4FL-0033-IAA		1.9				7.7	15	41
M4FL-0040-IAA		2.4				8.9	15	48
M4FL-0040-IAA		2.4				8.9	15	46
M4FL-0040-IAA						8.9	15	41
M4FL-0040-IAV		2.4				4.6	15	50
M4FL-0074-CFA						24.5	40	69
M4FL-A067-CAA		2.4				15.1	20	45
M4FL-A067-CAA		2.4				15.1	20	66
M4FL-A067-CAV		2.4				9.0	15	55
M4FL-H025-IAA		1.9				5.6	15	37

*Reciever capacity applies only to units with receivers. See BOM Matrix for included components.

Physical and Electrical Data

Copeland air-cooled condensing units

Model	BOM	Compressor Electrical	Length	Width	Height	Refrigerant Connections	
						Liquid	Suction
M4FL-H025-IAA	072	AFE08C4E-IAA	14.46	13.17	11.40	1/4 S	3/8 S
M4FL-H051-IAA	103	AFE17C4E-IAA	17.38	12.94	11.76	1/4 S	3/8 S
M4FL-H051-IAA	272	AFE17C4E-IAA	17.78	13.11	11.81	1/4 S	3/8 S
M4FM-E022-IAA	212	ASE12C4E-IAA	13.98	11.83	9.62	1/4 S	3/8 S
M4FM-H022-IAA	111	ASE12C4E-IAA	13.97	11.26	9.67	1/4 S	3/8 S
M4FM-H022-IAA	212	ASE12C4E-IAA	13.98	11.83	9.62	1/4 S	3/8 S
M4FM-H022-IAA	272	ASE12C4E-IAA	14.49	12.88	11.39	1/4 S	3/8 S
MBAH-0075-CFA	020	RRT81C1-PFA	24.00	17.48	13.07	3/8 S	5/8 S
MBAH-0075-CFV	020	RRT81C1-PFV	24.00	17.48	13.07	3/8 S	5/8 S
MBAM-0050-IAA	212	RRT64C1-IAA	16.15	13.68	11.74	1/4 S	1/2 S
MBAM-0050-IAV	212	RRT64C1-IAV	16.15	13.68	11.74	1/4 S	1/2 S
MBAM-0075-CFA	020	RRT10K1-PFA	24.00	17.51	13.07	3/8 S	5/8 S
MBAM-0075-CFV	020	RRT10K1-PFV	24.00	17.51	13.07	3/8 S	5/8 S
MBFH-A049-CAA	272	ARE51C4-CAA	16.14	13.08	11.73	1/4 S	3/8 S
MBFH-A050-IAA	272	RRT62C1-IAA	16.60	13.70	11.70	1/4 S	3/8 S
MBFH-B026-IAA	111	ARE29C4-IAA	13.94	11.25	9.67	1/4 S	3/8 S
MBFH-B026-IAA	103	ARE29C4-IAA	13.91	11.47	9.67	1/4 S	3/8 S
MBFH-B026-IAA	072	ARE29C4-IAA	14.46	13.13	11.39	1/4 S	3/8 S
MBFL-A034-IAA	020, 103	AFE12C4-IAA	16.20	12.42	9.67	1/4 S	3/8 S
MBFL-A034-IAA	111	AFE12C4-IAA	16.20	12.16	9.67	1/4 S	3/8 S
MBFS-A033-IAA	103	ARE40C4-IAA	13.96	11.47	9.67	1/4 S	3/8 S
MBFS-A033-IAA	111	ARE40C4-IAA	13.96	11.23	9.67	1/4 S	3/8 S
MBFS-A033-IAA	272	ARE40C4-IAA	14.46	13.13	11.39	1/4 S	3/8 S
MCFH-0078-CAA	072	RST55C1-CAA	24.00	17.14	13.07	3/8 S	5/8 S
MCFH-0078-CAV	072	RST55C1-CAV	24.00	17.14	13.07	3/8 S	5/8 S
MCFH-A022-IAA	111	ASE12C4-IAA	13.94	11.25	9.67	1/4 S	3/8 S
MCFH-A022-IAA	103	ASE12C4-IAA	13.94	11.70	9.67	1/4 S	3/8 S
MCFH-A036-IAA	103	ASE20C4-IAA	16.15	12.87	11.74	1/4 S	3/8 S
MCFH-A036-IAA	272	ASE20C4-IAA	16.33	13.08	11.73	1/4 S	3/8 S
MCFH-A049-CAA	272	ASE35C4-CAA	16.56	13.08	11.74	1/4 S	3/8 S
MCFH-A049-CAA	111	ASE35C4-CAA	16.20	12.71	11.75	1/4 S	3/8 S
MCFH-A049-IAV	272	ASE35C4-IAV	16.57	13.08	11.74	1/4 S	3/8 S
MCFH-A056-IAA	272	RST40C1-IAA	17.38	14.38	11.82	1/4 S	5/8 S
MCFH-A056-IAV	272	RST40C1-IAV	17.38	14.38	11.82	1/4 S	5/8 S
MCFH-B027-IAA	103	ASE20C4-IAA	13.91	11.47	9.67	1/4 S	3/8 S
MCFH-B027-IAA	111	ASE20C4-IAA	13.91	11.32	9.67	1/4 S	3/8 S
MCFH-B027-IAA	272	ASE20C4-IAA	14.46	13.13	11.39	1/4 S	3/8 S
MCFH-B036-IAA	272	ASE26C4-IAA	16.54	13.08	11.73	1/4 S	3/8 S
MCFH-B036-IAA	111	ASE26C4-IAA	16.16	12.69	11.74	1/4 S	4/8 S
MFFP-H022-IAA	272	ASE12C4E-IAA	14.49	12.88	11.39	1/4 S	3/8 S

Physical and Electrical Data

Copeland air-cooled condensing units

Model	Receiver Capacity (Lbs @ 90% Volume)					MCA	Max Fuse	Ship Weight
	R-12	R-134a	R-22	R-404A	R-407C			
M4FL-H025-IAA				1.9		5.6	15	42
M4FL-H051-IAA				2.4		11.5	15	51
M4FL-H051-IAA				2.4		11.5	15	53
M4FM-E022-IAA				1.9		5.4	15	
M4FM-H022-IAA						5.5	15	36
M4FM-H022-IAA				1.9		5.5	15	38
M4FM-H022-IAA				1.9		5.5	15	38
MBAH-0075-CFA	8.1					18.3	25	100
MBAH-0075-CFV	8.1					9.3	15	35
MBAM-0050-IAA	3					14.6	20	59
MBAM-0050-IAV	3					8.6	15	45
MBAM-0075-CFA	8.1					19.0	30	55
MBAM-0075-CFV	8.1					11.2	15	75
MBFH-A049-CAA	3					14.0	20	50
MBFH-A050-IAA	3					12.8	20	45
MBFH-B026-IAA						7.4	15	40
MBFH-B026-IAA	2.4					7.4	15	39
MBFH-B026-IAA	2.4					7.4	15	55
MBFL-A034-IAA	2.4					8.7	15	28
MBFL-A034-IAA						8.7	15	100
MBFS-A033-IAA	2.4					9.5	15	40
MBFS-A033-IAA						9.5	15	40
MBFS-A033-IAA	2.4					9.5	15	53
MCFH-0078-CAA		7.3				20.8	30	40
MCFH-0078-CAV		7.3				9.7	15	87
MCFH-A022-IAA						5.9	15	40
MCFH-A022-IAA		2.1				5.9	15	55
MCFH-A036-IAA		2.8				8.4	15	55
MCFH-A036-IAA		2.8				8.4	15	50
MCFH-A049-CAA		2.8				15.9	25	125
MCFH-A049-CAA						15.9	25	75
MCFH-A049-IAV		2.8				8.3	15	75
MCFH-A056-IAA		3.7				15.5	20	40
MCFH-A056-IAV		3.7				7.3	15	66
MCFH-B027-IAA		2.1				8.2	15	40
MCFH-B027-IAA						8.2	15	40
MCFH-B027-IAA		2.1				8.2	15	45
MCFH-B036-IAA		2.8				10.3	15	48
MCFH-B036-IAA						10.3	15	50
MFFP-H022-IAA			1.9		2	5.5	15	

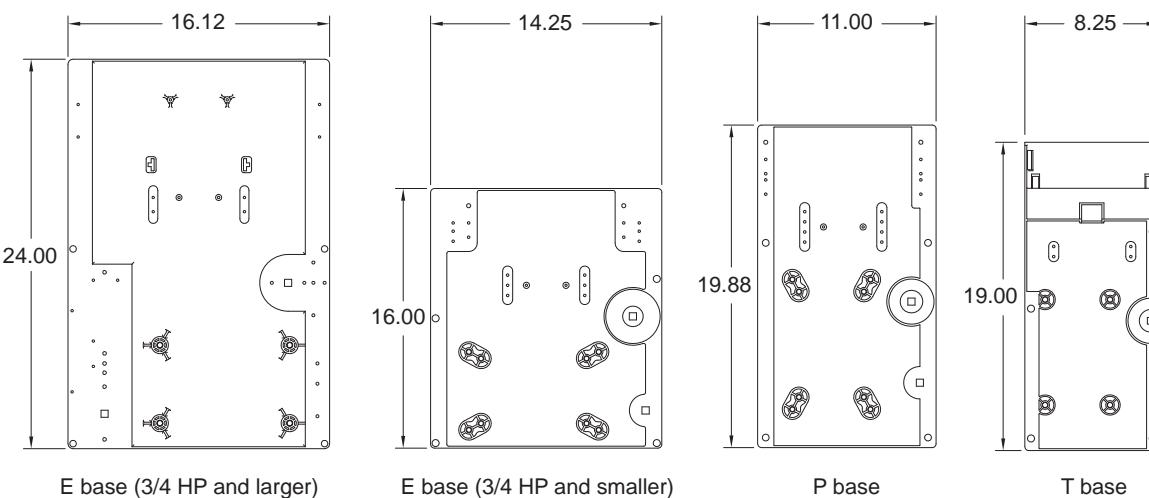
*Reciever capacity applies only to units with receivers. See BOM Matrix for included components.

R-404A Condensate Base LT/EMT

Copevap welded air-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0	5	10	15	20	25
90° Ambient												
M4TL-H025	AFE08C4E	620	700	780	860	960	1050					
M4TL-H033	AFE11C4E	780	890	1000	1120	1240	1370					
M4EL-0033	AFE11C3E	860	1040	1210	1390	1570	1750					
M4PL-0033	AFE11C3E	860	1040	1210	1390	1570	1750					
M4TL-H034	AFE13C4E	1010	1140	1270	1420	1570	1720					
M4EL-0039	AFE13C3E	1290	1510	1740	1980	2240	2500					
M4PL-0039	AFE13C3E	1290	1510	1740	1980	2240	2500					
M4EL-H050	AFE17C4E	1480	1680	1890	2130	2380	2630					
M4PL-H050	AFE17C4E	1510	1710	1920	2140	2380	2620					
M4EF-0050	RST45C1E	1480	1710	1960	2220	2500	2780	3110	3410	3730	4050	4380
M4EF-0058	RST45C1E	1600	1860	2150	2470	2810	3160	3560	3960	4370	4800	5250
M4EF-0075	RST55C1E	1870	2250	2650	3080	3530	3980	4490	4990	5520	6060	6620
M4EF-0080	RST64C1E	2490	2930	3390	3880	4380	4880	5440	5980	6530	7080	7640
100° Ambient												
M4TL-H025	AFE08C4E	540	610	690	770	860	940					
M4TL-H033	AFE11C4E	700	800	900	1010	1130	1240					
M4EL-0033	AFE11C3E	690	850	1010	1180	1360	1530					
M4PL-0033	AFE11C3E	690	850	1010	1180	1360	1530					
M4TL-H034	AFE13C4E		1030	1160	1290	1430	1560					
M4EL-0039	AFE13C3E	1080	1280	1500	1720	1950	2180					
M4PL-0039	AFE13C3E	1080	1280	1500	1720	1950	2180					
M4EL-H050	AFE17C4E	1320	1510	1700	1920	2140	2370					
M4PL-H050	AFE17C4E	1360	1530	1730	1930	2140	2360					
M4EF-0050	RST45C1E	1260	1470	1700	1940	2200	2450	2750	3030	3330	3620	3920
M4EF-0058	RST45C1E	1370	1610	1880	2170	2480	2800	3160	3520	3900	4290	4690
M4EF-0075	RST55C1E	1560	1920	2300	2690	3110	3530	3990	4450	4930	5430	5940
M4EF-0080	RST64C1E	2180	2590	3020	3470	3930	4380	4900	5380	5880	6380	6880
110° Ambient												
M4TL-H025	AFE08C4E		510	590	670	750	830					
M4TL-H033	AFE11C4E			810	910	1010	1100					
M4EL-0033	AFE11C3E	520	670	830	990	1160	1320					
M4PL-0033	AFE11C3E	520	670	830	990	1160	1320					
M4TL-H034	AFE13C4E				1160	1290						
M4EL-0039	AFE13C3E	850	1050	1250	1470	1670	1900					
M4PL-0039	AFE13C3E	850	1050	1250	1470	1670	1900					
M4EF-0050	RST45C1E		1240	1450	1670	1910	2140	2420	2680	2950		
M4EL-H050	AFE17C4E		1340	1510	1700	1910	2110					
M4PL-H050	AFE17C4E		1360	1530	1720	1910	2100					
M4EF-0058	RST45C1E	1140	1360	1610	1870	2150	2440	2770	3100	3440	3790	4150
M4EF-0075	RST55C1E	1320	1650	1990	2350	2730	3110	3520	3940	4370	4820	5280
M4EF-0080	RST64C1E	2290	2680	3080	3500	3910	4370	4800	5250	5690	6140	

Capacities rated at 65°F return gas, 5°F subcooling



R-404A Condensate Base MT/HT

Copevap welded air-cooled condensing units

Model	Compressor	0	5	10	15	20	25	30	35	40	45
90° Ambient											
M4TM-H020	ASE12C4E	960	1080	1200	1320	1450	1580				
M4TM-H025	ASE20C4E	1560	1720	1860	2010	2150	2300				
M4EH-0025	ASE19C3E	1600	1730	1890	2060	2240	2430	2620	2820	3030	3240
M4PH-0025	ASE19C3E	1600	1730	1890	2060	2230	2430	2620	2820	3030	3270
M4TM-0033	ASE24C3E	1560	1750	1920	2110	2310	2520				
M4EH-A035	ASE24C3E	1800	2040	2280	2530	2800	3100	3430	3810	4230	4710
M4PH-A035	ASE24C3E	1800	2040	2280	2530	2800	3100	3430	3810	4230	4710
M4EH-0049	ASE32C3E	2470	2750	3020	3310	3620	3970	4350	4800	5320	5940
M4PH-0049	ASE32C3E	2630	2920	3210	3520	3850	4210	4610	5060	5570	6140
100° Ambient											
M4TM-H020	ASE12C4E	850	960	1060	1170	1290	1400				
M4TM-H025	ASE20C4E	1470	1590	1700	1800	1920	2030				
M4EH-0025	ASE19C3E	1460	1560	1700	1870	2030	2220	2400	2620	2840	3030
M4PH-0025	ASE19C3E	1460	1560	1700	1870	2030	2220	2400	2620	2840	3030
M4TM-0033	ASE24C3E	1360	1540	1710	1890	2090	2320				
M4EH-A035	ASE24C3E	1570	1800	2020	2250	2510	2800	3130	3500	3930	4430
M4PH-A035	ASE24C3E	1570	1800	2020	2250	2510	2800	3130	3500	3930	4430
M4EH-0049	ASE32C3E	2190	2480	2760	3050	3370	3730	4140			
M4PH-0049	ASE32C3E	2340	2620	2900	3200	3510	3870	4270	4720	5260	
110° Ambient											
M4TM-H020	ASE12C4E		840	930	1030	1120	1220				
M4TM-H025	ASE20C4E			1540	1610	1680	1770				
M4EH-0025	ASE19C3E	1250	1390	1530	1690	1840	2020	2190			
M4PH-0025	ASE19C3E	1250	1390	1530	1690	1840	2020	2190			
M4TM-0033	ASE24C3E			1360	1540	1730	1940				
M4EH-A035	ASE24C3E	1360	1570	1790	2020	2270	2570	2900	3290	3750	
M4PH-A035	ASE24C3E	1360	1570	1790	2020	2270	2570	2900	3290	3750	
M4EH-0049	ASE32C3E				2580	2920					
M4PH-0049	ASE32C3E		2370	2660	2970	3310	3690				

Capacities rated at 40°F return gas (65°F return gas for capacities in **bold**), 5°F subcooling

R-134a Condensate Base LT

Copevap welded air-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0
90° Ambient							
M2PL-A025	AFE10C3E	720	820	940	1070	1210	1370
M2EL-B033	AFE12C3E	850	960	1090	1240	1410	1590
M2PL-B033	AFE12C3E	850	960	1090	1240	1410	1590
M2PL-H040	AFE12C4E	985	1140	1320	1530	1750	1980
M2EL-0050	RFT18C1E	1380	1700	2030	2360	2710	3050
100° Ambient							
M2PL-A025	AFE10C3E	670	760	870	1000	1130	1280
M2EL-B033	AFE12C3E	770	880	1000	1150	1300	1480
M2PL-B033	AFE12C3E	770	880	1000	1150	1300	1480
M2PL-H040	AFE12C4E	907	1050	1220	1410	1610	1830
M2EL-0050	RFT18C1E		1460	1780	2100	2440	2770
110° Ambient							
M2PL-A025	AFE10C3E		700	800	920	1050	1190
M2EL-B033	AFE12C3E		800	920	1050	1200	1360
M2PL-B033	AFE12C3E		800	920	1050	1200	1360
M2PL-H040	AFE12C4E		964	1110	1280	1470	1660
M2EL-0050	RFT18C1E					2170	2510

Capacities rated at 40°F return gas and 5°F subcooling

R-134a Condensate Base MT/HT

Copevap welded air-cooled condensing units

Model	Compressor	0	5	10	15	20	25	30	35	40	45
90° Ambient											
M2TH-H017	ARE13C4E	620	710	810	920	1030	1160	1300	1440	1600	1770
M2TH-0020	ARB17C3E	790	880	980	1090	1220	1350	1500	1650	1810	1970
M2TH-H020	ARE17C4E	760	870	980	1110	1240	1390	1540	1710	1890	2070
M2TH-0024	ARE25C3E	830	1000	1180	1360	1540	1730	1920	2130	2340	2550
M2EH-0024	ARE25C3E	1110	1310	1470	1640	1810	2000	2190	2390	2600	
M2TH-0026	ARE27C3E	870	1100	1320	1530	1750	1970	2200	2430	2660	2910
M2EH-0026	ARE27C3E	1270	1530	1700	1890	2080	2280	2490	2710	2940	
M2PH-0026	ARE27C3E	1270	1530	1700	1890	2080	2280	2490	2710	2940	
M2TH-H033	ARE34C4E	1390	1540	1710	1900	2100	2320	2560	2800	3040	3290
M2PH-M033	ARE37C3E	940	1280	1580	1850	2120	2370	2620	2870	3130	3400
M2EH-A033	ARE37C3E	1500	1870	2110	2360	2620	2900	3190	3500	3820	
M2PH-A033	ARE37C3E	1500	1870	2110	2360	2620	2900	3190	3500	3820	
M2PH-0040	ARE41C3E	1670	1970	2270	2570	2870	3170	3490	3810	4150	
M2EM-A048	RRRT62C1E	2170	2460	2760	3070	3390	3740				
M2EM-0052	RRRT64C1E	2670	3000	3360	3740	4140	4540				
M2EM-0059	RRRT64C1E	2880	3260	3680	4130	4620	5130				
M2EH-0075	RRRT81C1E	3530	4040	4590	5170	5790	6430	7110	7810	8530	9280
M2EM-0075	RRRT10K1E	4080	4640	5230	5850	6490	7160				
M2EM-0078	RRRT10K1E	4320	4920	5530	6150	6800	7460				
M2EH-0090	RRRT10K1E	4400	5010	5630	6270	6930	7610	8320	9060	9830	10600
100° Ambient											
M2TH-H017	ARE13C4E	560	650	740	840	950	1070	1200	1340	1490	1640
M2TH-0020	ARB17C3E	730	810	900	1010	1120	1240	1380	1520	1680	1840
M2TH-H020	ARE17C4E	700	800	910	1030	1160	1290	1440	1600	1760	1940
M2TH-0024	ARE25C3E	760	920	1080	1250	1420	1600	1780	1970	2160	2360
M2EH-0024	ARE25C3E	1080	1230	1390	1530	1710	1870	2050	2230	2420	
M2TH-0026	ARE27C3E	730	960	1190	1400	1620	1830	2050	2260	2480	2710
M2EH-0026	ARE27C3E	1170	1400	1570	1710	1890	2080	2300	2520	2710	
M2PH-0026	ARE27C3E	1170	1400	1570	1710	1890	2080	2300	2520	2710	
M2TH-H033	ARE34C4E	1290	1430	1580	1750	1940	2140	2350	2570		
M2PH-M033	ARE37C3E	840	1150	1430	1690	1940	2180	2410	2650		
M2EH-A033	ARE37C3E	1350	1690	1920	2150	2420	2670	2970	3230	3490	
M2PH-A033	ARE37C3E	1350	1690	1920	2150	2420	2670	2970	3230	3490	
M2PH-0040	ARE41C3E	1520	1790	2070	2350	2630	2910	3210	3510		
M2EM-A048	RRRT62C1E	2250	2520	2810	3110	3430					
M2EM-0052	RRRT64C1E		3080	3430	3790	4150					
M2EM-0059	RRRT64C1E	2660	3020	3410	3830	4280	4750				
M2EH-0075	RRRT81C1E		3680	4190	4740	5320	5930	6560	7220	7900	8590
M2EM-0075	RRRT10K1E		4230	4770	5350	5950	6570				
M2EM-0078	RRRT10K1E		4490	5060	5640	6230	6850				
M2EH-0090	RRRT10K1E		4590	5180	5770	6380	7010	7660	8340	9040	9780
110° Ambient											
M2TH-H017	ARE13C4E	510	590	680	770	870	980	1100	1220	1360	1500
M2TH-0020	ARB17C3E	680	740	820	910	1020	1130	1260	1400	1540	1700
M2TH-H020	ARE17C4E		730	840	950	1070	1190	1330	1470	1630	1790
M2TH-0024	ARE25C3E	690	840	990	1150	1300	1470	1630	1810	1990	
M2EH-0024	ARE25C3E		1140	1290	1420	1590	1740	1920			
M2TH-0026	ARE27C3E		830	1060	1270	1480	1680	1880	2090		
M2EH-0026	ARE27C3E		1330	1470	1570	1740	1910	2100			
M2PH-0026	ARE27C3E		1330	1470	1570	1740	1910	2100			
M2TH-H033	ARE34C4E				1960						
M2EH-A033	ARE37C3E		1520	1740	1970	2220	2440	2720			
M2PH-A033	ARE37C3E		1520	1740	1970	2220	2440	2720			
M2PH-0040	ARE41C3E	1370	1630	1890	2140	2400					
M2EM-A048	RRRT62C1E		2580	2860	3160						
M2EM-0052	RRRT64C1E		3090								
M2EM-0059	RRRT64C1E		3110	3510	3920	4350					
M2EH-0075	RRRT81C1E		3820	4330	4870	5430	6020				
M2EM-0075	RRRT10K1E			4850	5410						
M2EM-0078	RRRT10K1E		4600	5130	5680	6240					
M2EH-0090	RRRT10K1E		4720	5280	5840	6410	7010				

Capacities rated at 40°F return gas (65°F return gas for capacities in bold), 5°F subcooling

R-22 Condensate Base

Copevap welded air-cooled condensing units

Model	Compressor	0	5	10	15	20	25	30	35	40	45
90° Ambient											
MC-PH-B027	ASE20C4	1560	1750	1970	2200	2440	2690	2960	3240	3530	3820
MC-PH-A035	ASE26C4	1870	2110	2370	2650	2950	3260	3590	3940	4290	4660
MCEH-A048	ASE35C4	2360	2660	2990	3330	3700	4080	4480	4900	5330	5770
MC-PH-A048	ASE35C4	2360	2660	2990	3330	3700	4080	4480	4890	5310	5740
100° Ambient											
MC-PH-B027	ASE20C4		1600	1810	2020	2250	2490	2730	2990	3250	3520
MC-PH-A035	ASE26C4		1930	2180	2440	2710	3010	3310	3620	3950	4280
MC-PH-A048	ASE35C4	2140	2430	2730	3050	3390	3740	4110	4480	4860	
MCEH-A048	ASE35C4	2150	2430	2730	3050	3390	3750	4110	4500	4890	5290
110° Ambient											
MC-PH-B027	ASE20C4			1640	1840	2050	2270	2500			
MC-PH-A035	ASE26C4			1980	2220	2480	2740	3020	3310		
MCEH-A048	ASE35C4		2200	2480	2780	3090	3410				
MC-PH-A048	ASE35C4	2200	2480	2780	3090	3410					

Capacities rated at 65°F return gas and 5°F subcooling



Physical and Electrical Data

Copevap air-cooled condensing units

Model	BOM	Compressor Electrical	Length	Width	Height	Refrigerant Connections	
						Liquid	Suction
M2EH-0024-SAA	102	ARE25C3E-SAA	16	14.25	10.52	1/4 S	5/16 S
M2EH-0026-IAA	020, 103, 111	ARE27C3E-IAA	16	14.25	10.47	1/4 S	3/8 S
M2EH-0075-CFA	212	RRT81C1E-PFA	24	17.12	13.58	3/8 S	5/8 S
M2EH-0090-CFV	208	RRT10K1E-PFV	24	16.8	13.58	3/8 S	5/8 S
M2EH-A033-IAA	208, 212	ARE37C3E-IAA	16	14.25	10.47	1/4 S	3/8 S
M2EH-H047-CAA	212	ARE51C4E-CAA	16.04	15.13	11.77	1/4 S	3/8 S
M2EL-0050-CFA	212	RFT18C1E-PFA	17.36	15.54	13.31	1/4 S	1/2 S
M2EL-B033-IAA	020	AFE12C3E-IAA	16	14.25	10.46	1/4 S	3/8 S
M2EM-0052-IAA	212	RRT64C1E-IAA	16.91	15.57	11.77	1/4 S	1/2 S
M2EM-0052-IAA	208	RRT64C1E-IAA	16.9	15.57	11.77	3/8 S	1/2 S
M2EM-0052-IAA	103	RRT64C1E-IAA	17.03	15.57	11.75	1/4 S	1/2 S
M2EM-0059-IAV	102	RRT64C1E-IAV	24	16.86	13.59	1/4 S	3/8 S
M2EM-0075-CFA	212	RRT10K1E-PFA	24	16.8	13.58	3/8 S	5/8 S
M2EM-0075-CFV	212	RRT10K1E-PFV	24	16.75	13.58	3/8 S	5/8 S
M2EM-0078-CFV	212	RRT10K1E-PFV	24	17.11	13.59	3/8 S	5/8 S
M2EM-A048-IAA	111	RRT62C1E-IAA	16.52	15.12	11.83	1/4 S	3/8 S
M2EM-A048-IAA	212	RRT62C1E-IAA	16.26	15.12	11.83	1/4 S	3/8 S
M2EM-A048-IAV	212	RRT62C1E-IAV	16.23	15.52	11.77	1/4 S	3/8 S
M2EM-A048-IAV	103	RRT62C1E-IAV	16.67	15.43	11.77	1/4 S	3/8 S
M2PH-0026-IAA	020	ARE27C3E-IAA	19.88	11.25	10.46	1/4 S	3/8 S
M2PH-0026-IAA	103	ARE27C3E-IAA	19.88	11.2	10.52	1/4 S	3/8 S
M2PH-0040-IAA	208	ARE41C3E-IAA	19.88	11.08	10.45	1/4 S	3/8 S
M2PH-0040-IAA	214	ARE41C3E-IAA	19.88	11.08	10.45	1/4 S	5/16 S
M2PH-A033-IAA	212	ARE37C3E-IAA	19.88	11.25	10.46	1/4 S	3/8 S
M2PH-A033-IAA	103	ARE37C3E-IAA	19.88	11.08	10.52	1/4 S	3/8 S
M2PH-A033-IAA	208	ARE37C3E-IAA	19.88	11.07	10.46	1/4 S	3/8 S
M2PH-A033-IAA	111	ARE37C3E-IAA	19.88	11	10.52	1/4 S	3/8 S
M2PH-A033-IAV	212	ARE37C3E-IAV	19.88	11.17	10.46	1/4 S	3/8 S
M2PH-A033-IAV	103	ARE37C3E-IAV	19.88	11.08	10.52	1/4 S	3/8 S
M2PH-A033-IAV	208	ARE37C3E-IAV	19.88	11.07	10.46	1/4 S	3/8 S
M2PH-H047-CAA	208, 212	ARE51C4E-CAA	19.88	11.08	10.44	1/4 S	3/8 S
M2PH-H047-IAV	212	ARE51C4E-IAV	19.88	11.15	10.47	1/4 S	3/8 S
M2PH-M033-IAA	103	ARE37C3E-IAA	19.88	11.08	10.52	1/4 S	3/8 S
M2PL-A025-IAA	212	AFE10C3E-IAA	19.88	11.25	10.46	1/4 S	3/8 S
M2PL-B033-IAA	020	AFE12C3E-IAA	19.88	11.29	10.47	1/4 S	3/8 S
M2PL-H040-IAA	212	AFE12C4E-IAA	19.88	11.15	10.46	1/4 S	3/8 S
M2PL-H040-IAA	103	AFE12C4E-IAA	19.88	11.08	10.46	1/4 S	3/8 S
M2TH-0024-IAA	908	ARE25C3E-IAA	19	8.47	10.53	1/4 S	5/16 S
M2TH-0024-IAA	918	ARE25C3E-IAA	19	9.35	10.53	1/4 S	5/16 S
M2TH-0026-IAA	908	ARE27C3E-IAA	19	8.47	10.53	1/4 S	5/16 S
M2TH-0026-IAA	918	ARE27C3E-IAA	19	9.35	10.53	1/4 S	5/16 S
M2TH-H017-IAA	908	ARE13C4E-IAA	19	8.47	10.53	1/4 S	5/16 S
M2TH-H017-IAA	918	ARE13C4E-IAA	19	9.46	10.53	1/4 S	5/16 S
M2TH-H020-IAA	908	ARE17C4E-IAA	19	8.47	10.53	1/4 S	5/16 S
M2TH-H020-IAA	918	ARE17C4E-IAA	19	9.46	10.53	1/4 S	5/16 S
M2TH-H033-IAA	908	ARE34C4E-IAA	19	8.47	10.53	1/4 S	5/16 S
M2TH-H033-IAA	918	ARE34C4E-IAA	19	9.35	10.53	1/4 S	5/16 S
M4EF-0050-IAA	212	RST45C1E-IAA	17.03	15.56	11.75	1/4 S	1/2 S
M4EF-0058-IAA	072, 272	RST45C1E-IAA	24	17.15	13.58	3/8 S	1/2 S
M4EF-0075-CAA	212	RST55C1E-CAA	24	16.82	13.58	3/8 S	5/8 S
M4EF-0080-CFA	212	RST64C1E-CFA	24	16.82	13.59	3/8 S	5/8 S
M4EH-0025-IAA	212	ASE19C3E-IAA	16	14.25	10.47	1/4 S	3/8 S
M4EH-0049-CAA	020, 103, 208, 212	ASE32C3E-CAA	16.17	15.41	11.75	1/4 S	3/8 S
M4EH-0049-CAV	212	ASE32C3E-CAV	16.08	15.12	11.75	1/4 S	3/8 S
M4EH-A035-IAA	212	ASE24C3E-IAA	16.03	15.12	11.83	1/4 S	3/8 S
M4EH-A035-IAA	208	ASE24C3E-IAA	16.03	15.12	11.81	1/4 S	3/8 S
M4EH-A035-IAA	103, 111	ASE24C3E-IAA	16.06	15.12	11.78	1/4 S	3/8 S
M4EH-A035-IAV	212	ASE24C3E-IAV	16.03	15.12	11.83	1/4 S	3/8 S
M4EL-0033-IAA	212	AFE11C3E-IAA	16	14.25	10.47	1/4 S	3/8 S
M4EL-0033-IAA	103	AFE11C3E-IAA	16	14.25	10.52	1/4 S	3/8 S
M4EL-0039-IAA	111	AFE13C3E-IAA	16.06	15.12	11.78	1/4 S	3/8 S
M4EL-H050-IAA	103, 212	AFE17C4E-IAA	16.03	15.12	11.77	1/4 S	3/8 S
M4PH-0025-IAA	212	ASE19C3E-IAA	19.88	11.25	10.46	1/4 S	3/8 S
M4PH-0025-IAA	208	ASE19C3E-IAA	19.88	11.07	10.46	1/4 S	3/8 S

Physical and Electrical Data

Copevap air-cooled condensing units

Model	Receiver Capacity (Lbs @ 90% Volume)					MCA	Max Fuse	Ship Weight
	R-12	R-134a	R-22	R-404A	R-407C			
M2EH-0024-SAA						6.3	15	37
M2EH-0026-IAA	2.2					6.9	15	44
M2EH-0075-CFA	7.4					18.3	25	55
M2EH-0090-CFV						11.2	15	
M2EH-A033-IAA	2.2					9.9	15	41
M2EH-H047-CAA	2.8					14.0	20	55
M2EL-0050-CFA	2.8					13.0	20	72
M2EL-B033-IAA	2.2					6.7	15	47
M2EM-0052-IAA	2.8					14.6	20	45
M2EM-0052-IAA						14.6	20	61
M2EM-0052-IAA	2.8					14.6	20	61
M2EM-0059-IAV						9.2	15	70
M2EM-0075-CFA	4.8					19.0	30	68
M2EM-0075-CFV	4.8					11.2	15	78
M2EM-0078-CFV	7.4					11.2	15	50
M2EM-A048-IAA						12.8	20	40
M2EM-A048-IAA	2.8					12.8	20	57
M2EM-A048-IAV	2.8					6.0	15	51
M2EM-A048-IAV	2.8					6.0	15	65
M2PH-0026-IAA	2.2					6.9	15	42
M2PH-0026-IAA	2.2					6.9	15	41
M2PH-0040-IAA						10.2	15	
M2PH-0040-IAA						10.2	15	
M2PH-A033-IAA	2.2					9.9	15	40
M2PH-A033-IAA	2.2					9.9	15	46
M2PH-A033-IAA						9.9	15	46
M2PH-A033-IAA						9.9	15	46
M2PH-A033-IAV	2.2					4.9	15	46
M2PH-A033-IAV	2.2					4.9	15	46
M2PH-A033-IAV						4.9	15	46
M2PH-H047-CAA						14.0	20	50
M2PH-H047-IAV	2.2					6.7	15	
M2PH-M033-IAA	2.2					9.7	15	46
M2PL-A025-IAA	2.2					6.9	15	42
M2PL-B033-IAA	2.2					6.7	15	47
M2PL-H040-IAA	2.2					9.0	15	45
M2PL-H040-IAA	2.2					9.0	15	50
M2TH-0024-IAA						6.7	15	34
M2TH-0024-IAA	1.3					6.7	15	36
M2TH-0026-IAA						7.1	15	34
M2TH-0026-IAA	1.3					7.1	15	40
M2TH-H017-IAA						6.1	15	40
M2TH-H017-IAA	1.3					6.1	15	37
M2TH-H020-IAA						6.1	15	40
M2TH-H020-IAA	1.3					6.1	15	
M2TH-H033-IAA						6.6	15	36
M2TH-H033-IAA	1.3					6.6	15	38
M4EF-0050-IAA				2.4		14.0	20	66
M4EF-0058-IAA				2.9		15.1	20	73
M4EF-0075-CAA				4.1		20.8	30	77
M4EF-0080-CFA				4.1		20.3	30	78
M4EH-0025-IAA				1.9		10.7	15	36
M4EH-0049-CAA				2.4		12.3	20	51
M4EH-0049-CAV				2.4		6.7	15	50
M4EH-A035-IAA				2.4		8.4	15	49
M4EH-A035-IAA						8.4	15	45
M4EH-A035-IAA				2.4		8.4	15	45
M4EH-A035-IAV				2.4		5.9	15	50
M4EL-0033-IAA				1.9		7.7	15	41
M4EL-0033-IAA				1.9		7.7	15	41
M4EL-0039-IAA						8.9	15	47
M4EL-H050-IAA				2.4		10.6	15	
M4PH-0025-IAA				1.9		10.7	15	44
M4PH-0025-IAA						10.7	15	41

*Reciever capacity applies only to units with receivers. See BOM Matrix for included components.

Physical and Electrical Data

Copevap air-cooled condensing units

Model	BOM	Compressor Electrical	Length	Width	Height	Refrigerant Connections	
						Liquid	Suction
M4PH-0025-IAA	111	ASE19C3E-IAA	19.88	11	10.52	1/4 S	3/8 S
M4PH-0049-CAA	208	ASE32C3E-CAA	19.88	11.08	10.46	1/4 S	3/8 S
M4PH-A035-IAA	111, 212	ASE24C3E-IAA	19.88	11.15	10.46	1/4 S	3/8 S
M4PH-A035-IAV	208, 212	ASE24C3E-IAV	19.88	11.15	10.46	1/4 S	3/8 S
M4PL-0033-IAA	020	AFE11C3E-IAA	19.88	11.25	10.46	1/4 S	3/8 S
M4PL-0039-IAA	103, 111, 208, 212	AFE13C3E-IAA	19.88	11.08	10.44	1/4 S	3/8 S
M4PL-H050-IAA	103, 212	AFE17C4E-IAA	19.88	11.15	10.46	1/4 S	3/8 S
M4TL-H025-IAA	908	AFE08C4E-IAA	19	8.47	10.53	1/4 S	5/16 S
M4TL-H025-IAA	918	AFE08C4E-IAA	19	9.35	10.53	1/4 S	5/16 S
M4TL-H033-IAA	908	AFE11C4E-IAA	19	8.47	10.53	1/4 S	5/16 S
M4TL-H033-IAA	918	AFE11C4E-IAA	19	9.35	10.53	1/4 S	5/16 S
M4TL-H034-IAA	908	AFE13C4E-IAA	19	8.47	10.53	1/4 S	5/16 S
M4TL-H034-IAA	918	AFE13C4E-IAA	19	9.35	10.53	1/4 S	5/16 S
M4TM-0033-IAA	908	ASE24C3E-IAA	19	8.47	10.53	1/4 S	5/16 S
M4TM-0033-IAA	918	ASE24C3E-IAA	19	9.35	10.53	1/4 S	5/16 S
M4TM-0033-IAV	908	ASE24C3E-IAV	19	8.47	10.53	1/4 S	5/16 S
M4TM-0033-IAV	918	ASE24C3E-IAV	19	9.35	10.53	1/4 S	5/16 S
M4TM-H020-IAA	908	ASE12C4E-IAA	19	8.47	10.53	1/4 S	5/16 S
M4TM-H020-IAA	918	ASE12C4E-IAA	19	9.46	10.53	1/4 S	5/16 S
M4TM-H025-IAA	908	ASE20C4E-IAA	19	8.47	10.53	1/4 S	5/16 S
M4TM-H025-IAA	918	ASE20C4E-IAA	19	9.35	10.53	1/4 S	5/16 S
MCEH-A048-CAA	212	ASE35C4-CAA	16.06	15.13	11.77	1/4 S	3/8 S
MCPH-A035-IAA	212	ASE26C4-IAA	19.88	11.08	10.46	1/4 S	3/8 S
MCPH-A048-CAA	212	ASE35C4-CAA	19.88	11.15	10.47	1/4 S	3/8 S
MCPH-A048-IAV	212	ASE35C4-IAV	19.88	11.15	10.46	1/4 S	3/8 S
MCPH-B027-IAA	212	ASE20C4-IAA	19.88	11.25	10.46	1/4 S	3/8 S

Physical and Electrical Data

Copevap air-cooled condensing units

Model	Receiver Capacity (Lbs @ 90% Volume)					MCA	Max Fuse	Ship Weight
	R-12	R-134a	R-22	R-404A	R-407C			
M4PH-0025-IAA						10.7	15	41
M4PH-0049-CAA						12.3	20	51
M4PH-A035-IAA			1.9			8.4	15	44
M4PH-A035-IAV			1.9			5.9	15	45
M4PL-0033-IAA			1.9			7.7	15	43
M4PL-0039-IAA			1.9			8.9	15	47
M4PL-H050-IAA			1.9			10.6	15	44
M4TL-H025-IAA						5.8	15	31
M4TL-H025-IAA			1.1			5.8	15	31
M4TL-H033-IAA						6.1	15	35
M4TL-H033-IAA			1.1			6.1	15	36
M4TL-H034-IAA						7.9	15	37
M4TL-H034-IAA			1.1			7.9	15	38
M4TM-0033-IAA						8.4	15	35
M4TM-0033-IAA			1.1			8.4	15	36
M4TM-0033-IAV						5.9	15	33
M4TM-0033-IAV			1.1			5.9	15	37
M4TM-H020-IAA						5.6	15	37
M4TM-H020-IAA			1.1			5.6	15	40
M4TM-H025-IAA						8.4	15	35
M4TM-H025-IAA			1.1			8.4	15	35
MCEH-A048-CAA		2.8				15.9	25	40
MCPH-A035-IAA		2.2				10.3	15	44
MCPH-A048-CAA		2.2				15.9	25	55
MCPH-A048-IAV		2.2				8	15	
MCPH-B027-IAA		2.2				8.2	15	75

*Reciever capacity applies only to units with receivers. See BOM Matrix for included components.

Copeland™ water-cooled condensing units

BTU/H at 105° condensing, 75° water inlet - evaporator temp (°F)

Water flow (GPM) at evaporator temp (°F)

Capacities rated at 40°F return gas (65°F return gas for capacities in **bold**), 5°F subcooling

R-404A

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	-25	0	25	
M4WL-C075	RST64C1E	2600	3050	3550	4100	4700												0.41	0.72 (-5°)		
M4WL-H025	AFE08C4E	610	700	800	900	1020	1140											0.1	0.21		
M4WH-C025	ASE19C3E							1610	1820	2030	2260	2520	2790	3090	3420	3790	4190		0.3	0.39	
M4WL-C033	AFE11C3E	770	960	1160	1370	1590	1830											0.17	0.25		
M4WH-C036	ASE24C3E							1880	2160	2460	2780	3130	3520	3960	4450	5000	5630		0.29	0.49	
M4WL-C040	AFE13C3E	1180	1430	1690	1970	2270	2590											0.18	0.36		
M4WL-H051	AFE17C4E	1430	1640	1880	2140	2430	2740											0.21	0.41		
M4WH-C050	ASE32C3E							2800	3170	3570	4020	4530	5130	5830	6640	7590	8680		0.4	0.71	
M4WF-C056	RST45C1E	1500	1780	2090	2440	2830	3250	3710	4200	4730	5290	5890						0.21	0.53	0.84	
M4WF-C075	RST55C1E	2160	2460	2820	3230	3700	4220	4790	5410	6080	6790	7560						0.33	0.61	1.03	
M4WL-D067	RFT26C1E	1860	2170	2510	2880	3290	3730	4230										0.31	0.63		

Physical and Electrical Data

Copeland™ welded water-cooled condensing units

Model	BOM	Compressor Electrical	Length	Width	Height	Refrigerant Connections	
						Liquid	Suction
M2WH-C026-IAA	020	ARE27C3E-IAA	17.9	12.98	8.65	1/4 S	3/8 S
M2WH-C033-IAA	020	ARE37C3E-IAA	17.9	12.98	8.65	1/4 S	3/8 S
M2WH-C033-IAV	020	ARE37C3E-IAV	17.9	12.98	8.65	1/4 S	3/8 S
M2WH-C040-IAA	020	ARE41C3E-IAA	17.9	12.98	8.65	1/4 S	3/8 S
M2WH-D050-IAA	020	RRT62C1E-IAA	13.8	18.6	9.3	1/4 S	3/8 S
M2WH-D050-IAV	020	RRT62C1E-IAV	13.8	18.6	9.3	1/4 S	3/8 S
M2WH-D056-IAA	020	RRT64C1E-IAA	18.5	13.8	9.8	1/4 S	3/8 S
M2WH-D056-IAV	020	RRT64C1E-IAV	12.8	17.9	9.2	1/4 S	3/8 S
M2WH-H049-IAV	020	ARE51C4E-IAV	18.2	12.9	9.3	1/4 S	3/8 S
M2WM-C075-CFA	020	RRT10K1E-PFA	24	17.58	12.1	3/8 S	5/8 S
M2WM-C075-CFV	020	RRT10K1E-PFV	24	16.5	12.1	3/8 S	5/8 S
M4WF-C056-IAA	020	RST45C1E-IAA	17.4	12.7	10.5	1/4 S	5/8 S
M4WF-C056-IAV	020	RST45C1E-IAV	17.4	12.7	10.5	1/4 S	5/8 S
M4WF-C075-CAA	020	RST55C1E-CAA	24	16.1	10.7	3/8 S	5/8 S
M4WF-C075-CAV	020	RST55C1E-CAV	24	16.1	10.7	3/8 S	5/8 S
M4WH-C025-IAA	020	ASE19C3E-IAA	17.9	12.77	8.97	1/4 S	3/8 S
M4WH-C036-IAA	020	ASE24C3E-IAA	17.9	12.77	8.76	1/4 S	3/8 S
M4WH-C036-IAV	020	ASE24C3E-IAV	17.9	12.77	8.76	1/4 S	3/8 S
M4WH-C050-CAA	020	ASE32C3E-CAA	17.9	12.77	9.26	1/4 S	3/8 S
M4WH-C050-CAV	020	ASE32C3E-CAV	17.9	12.77	9.26	1/4 S	3/8 S
M4WL-C033-IAA	020	AFE11C3E-IAA	24	16.41	9.51	1/4 S	3/8 S
M4WL-C040-IAA	020	AFE13C3E-IAA	24	16.41	9.51	1/4 S	3/8 S
M4WL-C075-CFA	020	RST64C1E-CFA	24	16.4	10.7	3/8 S	5/8 S
M4WL-C075-IAV	020	RST64C1E-IAV	24	16.4	10.7	3/8 S	5/8 S
M4WL-D067-CAA	020	RFT26C1E-CAA	24	16.4	9.9	1/4 S	1/2 S
M4WL-H025-IAA	020	AFE08C4E-IAA	24	16.41	9.51	1/4 S	3/8 S
M4WL-H051-IAA	020	AFE17C4E-IAA	24	16.41	9.51	1/4 F	3/8 S
MCWH-0078-CAA	020	RST55C1-CAA	24.23	17.79	10.71	3/8 S	5/8 S
MCWH-0078-CAV	072	RST55C1-CAV	24.3	17.8	12.4	3/8 S	5/8 S
MCWH-A056-IAA	020	RST40C1-IAA	17.9	12.7	10.5	1/4 S	5/8 S
MCWH-A056-IAV	020	RST40C1-IAV	17.9	12.7	10.5	1/4 S	5/8 S
MCWH-D036-IAA	020	ASE26C4-IAA	17.2	12.8	9	1/4 S	3/8 S
MCWH-D049-CAA	020	ASE35C4-CAA	17.92	12.93	8.96	1/4 S	3/8 S

Copeland™ water-cooled condensing units

BTU/H at 105° condensing, 75° water inlet - evaporator temp (°F)

Water flow (GPM) at evaporator temp (°F)

Capacities rated at 65°F return gas (40°F return gas for capacities in **bold**), 5°F subcooling

R-134a

Model	Compressor	0	5	10	15	20	25	30	35	40	45	-25	0	25
M2WH-C026	ARE27C3E	850	1110	1360	1620	1890	2160	2450	2760	3100	3470	0.18	0.27	0.46
M2WH-C033	ARE37C3E	980	1390	1790	2190	2590	3000	3420	3870	4350	4860	0.19	0.39	0.68
M2WH-C040	ARE41C3E	1380	1750	2130	2530	2950	3390	3870	4380	4920	5520	0.27	0.45	0.72
M2WH-H049	ARE51C4E	2210	2510	2860	3250	3680	4150	4660	5220	5810	6450	0.3	0.6	0.9
M2WH-D050	RRT62C1E	2350	2730	3150	3590	4080	4610	5180	5800	6480	7220	0.31	0.62	0.93
M2WH-D056	RRT64C1E		3300	3770	4300	4880	5510	6190	6930	7730	8580		0.71	1.11
M2WM-C075	RRT10K1E	4470	5180	5920	6710	7570	8490					0.6	1.11	

R-22

Model	Compressor	0	5	10	15	20	25	30	35	40	45	-25	0	25
MCWH-D036	ASE26C4	1880	2160	2470	2810	3190	3600	4050	4530	5060	5630	0.3	0.5	0.7
MCWH-D049	ASE35C4	2440	2800	3210	3650	4140	4670	5250	5880	6560	7300	0.4	0.69	0.99
MCWH-A056	RST40C1	2460	2810	3210	3660	4170	4730	5330	5990	6690	7440	0.4	0.59	0.99
MCWH-0078	RST55C1	3650	4160	4760	5430	6180	7000	7900	8870	9910	11000	0.51	0.92	1.43

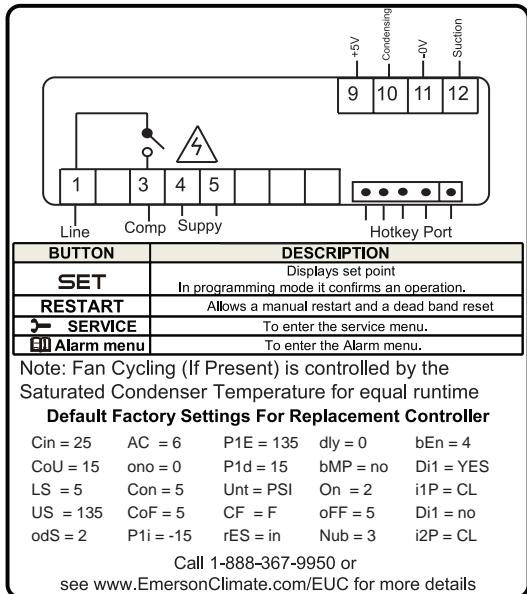
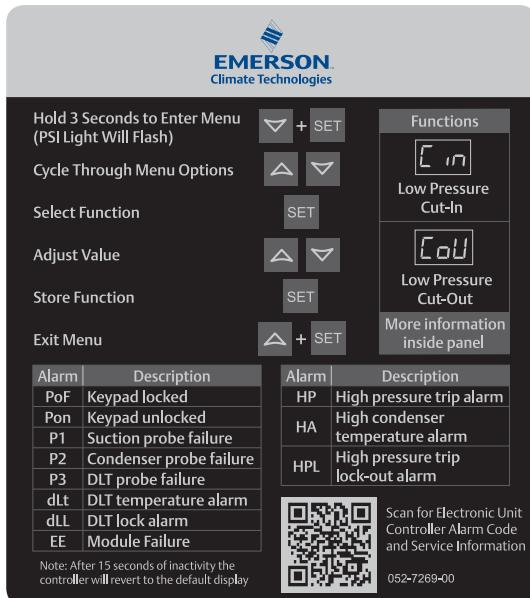
Physical and Electrical Data

Copeland™ welded water-cooled condensing units

Model	Water Connections		R-134a	R-22	R-404A	MCA	Max Fuse	Ship Weight (Lbs)
	In (FPT)	Out (OD)						
M2WH-C026-IIA	3/8	1/2	2.2			6.2	15	47
M2WH-C033-IIA	3/8	1/2	2.2			9.0	15	46
M2WH-C033-IAV	3/8	1/2	2.2			4.3	15	48
M2WH-C040-IIA	3/8	1/2	2.2			9.3	15	50
M2WH-D050-IIA	3/8	1/2	2.8			11.9	20	57
M2WH-D050-IAV	3/8	1/2	2.8			5.4	15	75
M2WH-D056-IIA	3/8	1/2	2.8			13.8	20	50
M2WH-D056-IAV	3/8	1/2	2.8			8.0	15	75
M2WH-H049-IAV	3/8	1/2	2.8			6.1	15	54
M2WM-C075-CFA	3/8	1/2	7.4			17.0	30	125
M2WM-C075-CFV	3/8	1/2	7.4			10.0	15	86
M4WF-C056-IIA	3/8	1/2		2.9		13.1	20	65
M4WF-C056-IAV	3/8	1/2		2.9		6.6	15	65
M4WF-C075-CAA	3/8	1/2		6.4		18.8	30	75
M4WF-C075-CAV	3/8	1/2		6.4		8.5	15	78
M4WH-C025-IIA	3/8	1/2		2.4		10.0	15	48
M4WH-C036-IIA	3/8	1/2		2.4		7.5	15	47
M4WH-C036-IAV	3/8	1/2		2.4		5.3	15	45
M4WH-C050-CAA	3/8	1/2		2.4		11.5	20	52
M4WH-C050-CAV	3/8	1/2		2.4		6.1	15	53
M4WL-C033-IIA	3/8	1/2		1.9		7.7	15	60
M4WL-C040-IIA	3/8	1/2		2.4		8.7	15	50
M4WL-C075-CFA	3/8	1/2		6.4		19.0	30	85
M4WL-C075-IAV	3/8	1/2		6.4		11.8	20	30
M4WL-D067-CAA	3/8	1/2		2.4		14.1	20	55
M4WL-H025-IIA	3/8	1/2		1.9		5.6	15	
M4WL-H051-IIA	3/8	1/2		2.4		10.4	15	69
MCWH-0078-CAA	3/8	1/2	7.3			18.8	30	55
MCWH-0078-CAV	3/8	1/2	7.3			8.5	15	62
MCWH-A056-IIA	3/8	1/2	3.3			13.8	20	92
MCWH-A056-IAV	3/8	1/2	3.3			6.3	15	66
MCWH-D036-IIA	3/8	1/2	2.7			9.4	15	65
MCWH-D049-CAA	3/8	1/2	2.7			15.0	25	45

Emerson™ Electronic Unit Controller (EUC)

Part #	Description
943-0152-00	115V Electronic Unit Controller
943-0153-00	230V Electronic Unit Controller
943-0154-00	115V Electronic Unit Controller with Fan Cycling
943-0155-00	230V Electronic Unit Controller with Fan Cycling
929-0114-00	Electronic Unit Controller Suction Pressure Transducer (150 PSIA)
929-0113-00	DLT Sensor Kit



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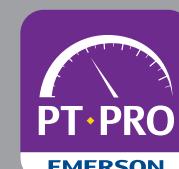
Vilter™ Docs



Copeland™ Mobile



Copeland X-Ref™



Emerson PTPro™



ProAct Alerts

More Soon – *We're listening to you!*

Application Engineering Bulletins

- 4-1255 U.L. and C.S.A. Agency File Numbers
- 4-1273 Factors to Consider in Converting Compressor Rated Capacity to Actual Capacity
- 4-1292 Medium Temperature R-22 Copelaweld Compressors
- 4-1295 HFC-134A Refrigerant Guidelines
- 4-1298 Extended Medium Temperature R-404A/507 Hermetic Compressors and Condensing Units
- 4-1305 "Copeland" AF, AR, & AS Refrigeration Hermetic 1/8-1 Horsepower Compressors
- 4-1306 Application Guidelines for RF Low Temperature Refrigeration Compressors
- 4-1307 Application Guidelines for CF Refrigeration Compressors and Condensing Units
- 5-1340 Care and Cleaning of Air-Cooled Condensing Units
- 5-1174 Water Flow Requirements and Water Pressure Drop for Copeland Water-Cooled Condensing Units
- 4-1344 Application Guidelines for RFT, RRT, RST Compressors
- 8-1376 Electronic Unit Controller
- 11-1147 Suction Accumulators
- 17-1260 Compressor Overheating
- 17-1268 Compression Ratio as it Affects Compressor Reliability
- 22-1182 Liquid Refrigerant Control in Refrigeration and Air Conditioning Systems

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