

Copeland™ condensing unit

Selection guide for commercial refrigeration



COPELAND™

2011DS-4_Binder R4


EMERSON™

Condensing Unit Replacement Checklist

These questions help in selecting the appropriate replacement refrigeration condensing unit

- What is the complete model number of the condensing unit you need to replace?
- What refrigerant is currently being used in the application?
- What is the applied voltage?
- What is the capacity/BTU's you need for the application?
- What is the application? Example: Walk-in freezer or cooler, food prep table.
- What box temperature do you need?
- What evaporator temperature do you need?
- Is the condensing unit indoor or outdoor?
- What metering device is being used in the application? TXV, cap tube.
- What accessories were on the unit you removed? Example; Receiver tank, fan cycle controls.

Notes

Contents

Module	Form Number
C-Line Copelametic™ air-cooled condensing units	2011DS-4_C-Line
D-Line Copelametic air-cooled and water-cooled condensing units	2011DS-4_D-Line
E-Line Copelametic air-cooled and water-cooled condensing units	2011DS-4_E-Line
F-Line air-cooled and water-cooled condensing units	2011DS-4_F-Line
M-Line air-cooled and water-cooled condensing units	2011DS-4_M-Line
W-Line semi-hermetic water-cooled condensing units	2011DS-4_W-Line
X-Line Copeland Scroll™ Outdoor Refrigeration Units	2011DS-4_X-Line
Appendix	2011DS-4_Appendix

Copeland™ C-Line

Copelametic™ air-cooled condensing units



Product Information

Horsepower: 1 – 10
Temperature Applications: Low/Medium/High
Refrigerants: R-12, R-134a, R-404A,
R-22, R-407C
Installation Applications: A variety of applications
including walk-ins



Nomenclature • Semi-Hermetic Condensing Units

Receiver Base	C
Flat Metal Base	E, D
Water Condenser Base	W
Transport Unit	T

Temperature Application	
Description	Code
High Temperature	H
Medium Temperature	M
Low Temperature	L
Extended Medium Temp.	F
Extra Low Temp.	E
High Temperature	B
R22/404A LT & R134a HT	G
R22 HT & R404A MT	J
R404A LT & R134a HT	K
Two Stage	U
Two Stage	T

Compressor Motor Types		
Phase	Description	Code
1	Capacitor Run – Capacitor Start	C
1	Induction Run – Capacitor Start	I
1	Induction Run – Split Phase	S
1	Capacitor Run – Permanent Split Capacitor	P
3	Three Phase	T
3	Wye (star) Delta	E
3	6 Lead Part Winding or Across the Line – except 575V	F

Product Variations	
Numbers will be assigned as follows:	
1.	Number –100 is standard compressor used in Copeland™ condensing units.
2.	Number –200 indicates a STANDARD compressor parts B/M and model no.
3.	Number –201 and larger will be assigned for all other variations of a given model.
4.	Number –800 indicates a standard replacement compressor and Component Parts B/M and model no. –240 volt control.
5.	Number –801 indicates a standard replacement compressor and component parts B/M and model no. –120 volt control.

X X X X - X X X X - X X X - X X X

Refrigerant	
R404A/507	J/4
R134a	T/2
R12	B/7
R22	3/M/L/C
Multiple	F
R22/407C	G
R22	9
R134a/404A/22	N
R134a/404A	P
R404A/22	8

Air Cooled Steel Base	A
Air Cooled Copevap Base	E
Water Cooled Steel Base	W
Custom Base	C
Discus	D

Comp. Motor Rating	
Nominal (HP)	Code
1/2	0050
3/4	0075
1	0100
1-1/2	0150
2	0200
3	0300
4	0400
5	0500
6	0600
7-1/2	0750
9	0900
10	1000
15	1500
20	2000
22	2200
25	2500
27	2700
30	3000
40	4000
50	5000
60	6000
70	7000
80	8000

Compressor Motor Protection	
Type Protection	Code
External Inherent Protection-One Protector, (Line Break) Use with Contactor	A
Internal Inherent Protection-One Protector (Line Break) Use with Contactor	F
Internal Thermal Protectors-Electronic Sensors; and Control Module External Use with Contactor	S

Electrical Codes		
60 Hz.	50 Hz.	Code
115-1	100-1	A
230-1	-	B
208/230-3	200/220-3	C
460-3	-	D
575-3	-	E
-	230-1	G
-	380/420-3	M
208/230-1	200-1	V
-	220-3	W
-	220/240-1	Z

Note: When applicable, specific 50 Hz ratings (not necessarily identical to typical shown above) will be shown as alternate on 60 Hz rated models.



Bill of Materials Matrix

BOM	Options															UL			
	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																			
001/020	X	X		X	X	X				X								X	
072	X	X		X	X	X				X	X	X						X	

Copelametic™ air-cooled condensing units

Features	Benefits
Copeland™ Semi-hermetic Compressor Copeland Discus™ Compressor with Unique 'Discus' Valve Design	Reliability High Energy Efficiency
Modular Components	Replacement Serviceability
Positive Displacement Oil Pump	Application Flexibility
Low Profile	More Cooler Space, Fewer Stockouts, Application Flexibility
Low Re-expansion Volumes	Decrease Energy Costs, Greater Capacity
Lower Operating Speeds	Reduces Operating Component Stress Low Sound Lower Maintenance Costs

Resources and Support

EmersonClimate.com

- Online Product Information and Technical Data
 - Application Engineering Bulletins
 - Instruction Sheets
 - Marketing Brochures
- Where to Buy

Application Engineering Bulletins

- 4-1094 Identification of Port Locations in Heads of Copelametic™ Compressors
- 4-1135 Cooling Requirement for Copelametic Compressors
- 4-1166 Copeland™ Oil Pumps
- 4-1283 Discus™ R-22 Envelope Extended
- 4-1287 Copeland Discus™ Demand Cooling
- 4-1336 Discus™ Optimized Medium Temperature Models Bulletin
- 8-1275 Sentronic and Sentronic+ Electronic Oil Pressure Control
- 8-1376 Electronic Unit Controller
- 11-1147 Suction Accumulators
- 11-1297 Liquid Line Filter-Driers
- 17-1234 Low Ambient Compressor Operation
- 17-1260 Compressor Overheating
- 17-1268 Compression Ratio as it Affects Compressor Reliability
- 22-1182 Liquid Refrigerant Control in Refrigeration and Air Conditioning Systems

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

R-12 Med/High Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45	50	55
90° Ambient														
CBAM-0103	KAK1-0100		5150	5780	6450	7170	7940	8750						
CBAM-0153	KAT*-0150	6540	7430	8420	9430	10500	11700	13000						
C7AB-0200	EAV*-0200		8380	9730	11100	12400	13800	15200	16600	18100	19700	21300	23000	24900
C7AB-0300	LAH1-0310		14700	16500	18400	20500	22700	25000	27500	30200	32900	35800		
CFDP-0300	2DF3F16KE	16900	19200	21800	24400	27200	30100	33200	36500	39900	43500	47300		
100° Ambient														
CBAM-0103	KAK1-0100		4700	5280	5890	6560	7260	8020						
CBAM-0153	KAT*-0150	5950	6770	7700	8650	9670								
C7AB-0200	EAV*-0200		7860	9110	10300	11600	12800	14100	15500	16800	18300	19800	21400	
C7AB-0300	LAH1-0310		13600	15300	17000	18900	21000	23200	25500	27900	30400	33100		
CFDP-0300	2DF3F16KE	15800	17900	20300	22800	25300	28100	31000	34000	37200	40600	44100		
110° Ambient														
CBAM-0103	KAK1-0100		4250	4780	5340	5940	6590	7280						
CBAM-0153	KAT*-0150	5350	6110											
C7AB-0200	EAV*-0200		7370	8510	9620	10700	11900	13000	14200	15500				
C7AB-0300	LAH1-0310		12500	14000	15600	17300	19200	21200	23300	25500	27800	30300		
CFDP-0300	2DF3F16KE	14600	16600	18900	21200	23600	26100	28800						

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

R-134a

Copeland air-cooled condensing units

Unit Model	Compressor	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45
90° Ambient																
CTAH-0100	KAJA-011E						4620	5210	5840	6510	7230	7990	8790	9630	10500	11400
CTAH-0150	KAL*-01*E						6220	7050	7930	8870	9880	10940	12050	13210	14410	15650
CNAG-0200	EAV*-021E						8120	9380	10700	12000	13500	15000	16600	18300	20100	22000
CTAM-0300	LAHA-031E					11300	13300	15400	17700	20000	22500	25200				
CFDP-0300	2DF3F16KE					16600	18900	21600	24300	27200	30300	33600	37000	40700	44700	48800
CFDP-0400	2DA3F23KE					20900	23900	27200	30700	34500	38500	42700	47100	51900	56800	62100
CFDP-0500	3DA3F28KE					29700	33900	38400	43200	48200	53500	59200	65200	71500	78100	
CFDP-0550	3DB3F33KE					34100	38900	44000	49300	55000	61000	67300	74000	81000	88300	
CFDP-0600	3DF3F40KE	12600	18600	24500	30400	36400	42500	48800	55400	62300	69600	77400	85700	94600	104100	114300
CFDP-0700	3DS3F46KE	14800	21100	27300	33500	39800	46400	53200	60300	67800	75800	84300	93400	103100	113500	124600
100° Ambient																
CTAH-0100	KAJA-011E						4230	4780	5350	5970	6630	7330	8070	8840	9650	10500
CTAH-0150	KAL*-01*E						5690	6460	7280	8170	9100	10090	11130	12210	13340	14500
CNAG-0200	EAV*-021E						7350	8530	9730	11000	12300	13800	15300	16800	18500	20300
CTAM-0300	LAHA-031E					10200	12100	14000	16100	18300	20600	23100				
CFDP-0300	2DF3F16KE					15200	17400	19900	22500	25200	28100	31100	34400	37900	41600	45500
CFDP-0400	2DA3F23KE					19200	22000	25100	28400	31900	35600	39500	43700	48200	52800	57800
CFDP-0500	3DA3F28KE					27400	31400	35600	40100	44900	49900	55200	60800	66700	72900	
CFDP-0550	3DB3F33KE					31300	35900	40800	45800	51200	56800	62700	68900	75500	82300	
CFDP-0600	3DF3F40KE	10100	16000	21800	27500	33200	39100	45000	51200	57800	64700	72000	79800	88100	97100	106700
CFDP-0700	3DS3F46KE	12200	18400	24400	30400	36500	42700	49200	55900	63000	70500	78500	87000	96100	105900	116400
110° Ambient																
CTAH-0100	KAJA-011E						3840	4340	4860	5420	6030	6660	7340	8050	8790	9550
CTAH-0150	KAL*-01*E						5130	5850	6610	7430	8300	9220	10180	11190	12250	
CNAG-0200	EAV*-021E						6590	7680	8790	9970	11200	12500	13900			
CTAM-0300	LAHA-031E					9070	10800	12600	14600	16600	18700	21000				
CFDP-0300	2DF3F16KE					13800	15900	18100	20500	23100	25800	28700				
CFDP-0400	2DA3F23KE					17400	20100	23000	26000	29300	32800	36500	40400			
CFDP-0500	3DA3F28KE					24900	28800	32800	37100	41600	46300	51300	56500	62100		
CFDP-0550	3DB3F33KE					28400	32900	37500	42300	47300	52600	58100				
CFDP-0600	3DF3F40KE	7420	13300	19000	24600	30100	35700	41400	47300	53400	59900	66800	74200	82000	90500	99600
CFDP-0700	3DS3F46KE	9550	15600	21500	27400	33200	39200	45300	51600	58300	65300	72900	80900	89500	98700	108600

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

Copelametic™ air-cooled condensing units

Capacity Data

R-22 Low Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
90° Ambient										
CNAG-0100	KAJ*-01*E	2210	2660	3140	3670	4250	4870	5540	6280	7060
CLAL-0152	EADB-0200	3110	3890	4730	5640	6630	7690	8840	10100	11400
C8AL-0151	EADA-020E	3410	4180	5020	5930	6910	7960	9100	10300	11600
C8AL-0200	EAVA-021E	4120	4730	5580	6630	7850	9180	10600	12100	13500
CNAG-0200	EAV*-021E	4110	4720	5570	6620	7820	9140	10600	12000	13400
CLAL-0300	LAH*-031*	5590	6960	8570	10400	12400	14600	16900	19400	21900
100° Ambient										
CNAG-0100	KAJ*-01*E	1970	2400	2860	3360	3890	4470	5090	5780	6490
CLAL-0152	EADB-0200	2670	3390	4170	5010	5920	6910	7980	9140	10400
C8AL-0151	EADA-020E	3000	3710	4480	5320	6220	7190	8250	9380	10600
CNAG-0200	EAVA-021E	3720	4260	5030	5980	7080	8280	9560	10900	12200
C8AL-0200	EAVB-021E	3730	4270	5040	6000	7110	8320	9610	11000	12300
CLAL-0300	LAH*-031*	5060	6330	7820	9500	11400	13400	15500	17800	20100
110° Ambient										
CNAG-0100	KAJ*-01*E	1720	2130	2560	3030	3520	4050	4630		
CLAL-0152	EADB-0200	2220	2890	3610	4390	5250	6180	7190	8290	
C8AL-0151	EADA-020E	2590	3240	3940	4710	5540	6440	7420	8480	
CNAG-0200	EAVA-021E	3200	3670	4350	5200	6190	7270	8420		
C8AL-0200	EAVB-021E	3200	3680	4370	5230	6220	7310	8470		
CLAL-0300	LAH*-031*	4330	5520	6900	8450	10200	12000	14000	16100	18200

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

R-22 Med Temp/High Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45
90° Ambient												
C8AJ-0100	KAR*-01*E		5070	5730	6440	7220	8040	8910	9830	10800	11800	12800
C3AH-0100	KAR*-0100		5090	5760	6480	7260	8100	8980	9910	10900	11900	12900
C3AM-0100	KAM1-0100		5450	6240	7060	7930	8840	9810				
C3AM-0101	KAM*-0100		5710	6540	7410	8330	9300	10300				
C3AH-0150	KAG*-0150		6130	7040	7990	8990	10100	11200	12400	13600	14900	16300
C3AH-0203	ERA*-0200		5460	6940	8490	10100	11800	13600	15400	17200	19100	21000
C3AH-0204	KAKA-0200		7860	9280	10700	12100	13500	15000	16500	18100	19800	21600
C8AJ-0200	KAK*-02*E		7860	9280	10700	12100	13500	15000	16500	18100	19800	21600
C3AM-0203	KAKA-0200	6450	7890	9320	10730	12140	13590	15070				
C3AM-0202	ERC2-0200	7980	9100	10300	11700	13200	14800	16500				
C8AM-0202	ERCA-02*E	8010	9150	10400	11800	13300	15000	16700				
C3AH-0303	ERF*-03*0		14750	16780	18950	21300	23800	26470	29300	32290	35440	38730
C8AJ-0300	ERFA-031E		14750	16780	18950	21300	23800	26470	29300	32290	35440	38730
CFDP-0451	2DC3R53KE	19400	22600	26000	29600	33400	37400	41700	46200	50900	55900	61100
CFDP-0501	2DA3F23KE	22700	26300	30100	34100	38300	42800	47400	52300	57500	62900	68500
CFDP-0751	2DA3R89KE	32800	38300	44000	49800	55900	62200	68700	75400	82400	89600	97100
CFDP-1001	3DB3R12ME	55200	62000	69400	77200	85600	94500	104000	114100	124800	136000	147900

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

Copelametic™ air-cooled condensing units

Capacity Data

R-22 Med Temp/High Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45
100° Ambient												
C8AJ-0100	KAR*-01*E		4610	5230	5900	6620	7400	8210	9070	9960	10900	11800
C3AH-0100	KAR*-0100		4630	5260	5940	6670	7450	8280	9150	10100	11000	12000
C3AM-0100	KAM1-0100		4960	5690	6450	7260	8120	9040				
C3AM-0101	KAM*-0100		5210	5970	6780	7630	8540	9510				
C3AH-0150	KAG*-0150		5640	6490	7380	8310	9310	10400	11500	12700	13900	15200
C3AH-0203	ERA*-0200		4590	5920	7300	8770	10300	11900	13500	15200	16900	18700
C3AH-0204	KAKA-0200		7160	8540	9900	11200	12600	14000	15400	16900	18500	20200
C8AJ-0200	KAK*-02*E		7160	8540	9900	11200	12600	14000	15400	16900	18500	20200
C3AM-0203	KAKA-0200	5760	7180	8580	9940	11300	12660	14070				
C3AM-0202	ERC2-0200	7250	8260	9400	10600	12000	13500	15100				
C8AM-0202	ERCA-02*E	7290	8350	9550	10800	12200	13700	15300				
C3AH-0303	ERF*-03*0		13470	15340	17350	19520	21830	24300	26910	29680	32600	35640
C8AJ-0300	ERFA-031E		13470	15340	17350	19520	21830	24300	26910	29680	32600	35640
CFDP-0451	2DC3R53KE	17200	20300	23600	27000	30600	34400	38500	42700	47200	51900	56900
CFDP-0501	2DA3F23KE	20400	23800	27500	31300	35300	39500	43900	48600	53400	58500	63800
CFDP-0751	2DA3R89KE	29100	34500	40100	45800	51700	57700	63900	70200	76800	83600	90500
CFDP-1001	3DB3R12ME	51400	57900	64900	72300	80200	88700	97600	107100	117200	127800	139000
110° Ambient												
C8AJ-0100	KAR*-01*E		4150	4740	5370	6050	6780	7540				
C3AH-0100	KAR*-0100		4180	4770	5410	6090	6830	7610	8420			
C3AM-0100	KAM1-0100		4500	5190	5900	6660	7480	8350				
C3AM-0101	KAM*-0100		4730	5430	6180	6980	7830	8750				
C3AH-0150	KAG*-0150		5170	5960	6780	7650	8580	9560	10600			
C3AH-0203	ERA*-0200		3680	4840	6060	7360	8720	10100	11600	13100		
C3AH-0204	KAKA-0200		6440	7800	9100	10400	11700	13000	14300			
C8AJ-0200	KAK*-02*E		6440	7800	9100	10400	11700	13000	14300			
C3AM-0203	KAKA-0200	5060	6470	7830	9140	10440	11730	13040				
C3AM-0202	ERC2-0200	6510	7420	8460	9580	10800	12200	13800				
C8AM-0202	ERCA-02*E	6560	7560	8670	9870	11200	12500	14000				
C3AH-0303	ERF*-03*0		12190	13910	15740	17720	19840	22090	24490	27020	29700	32500
C8AJ-0300	ERFA-031E		12190	13910	15740	17720	19840	22090	24490	27020	29700	32500
CFDP-0451	2DC3R53KE	18000	21200	24500	27900	31600	35400	39400	43600			
CFDP-0501	2DA3F23KE		25000	28600	32400	36400	40500	44900				
CFDP-0751	2DA3R89KE		36100	41600	47300	53000	58900	64900				
CFDP-1001	3DB3R12ME		53700	60300	67300	74800	82700	91200	100100	109500	119500	130100

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

R-404A Ultra Low Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-60	-55	-50	-45	-40	-35	-30	-25	-20
90° Ambient										
CJAU-0503	9TK2-050E	7410	9020	10800	12600	14600	16500	18500	20400	
100° Ambient										
CJAU-0503	9TK2-050E	7040	8590	10200	12000	13800	15600	17300	19000	
110° Ambient										
CJAU-0503	9TK2-050E	6630	8090	9630	11200	12800	14400	16000	17400	

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

R-404A Low Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
90° Ambient										
CJAL-0100	KAJ*-01*E	2430	2900	3410	3960	4550	5190	5870	6590	7310
CNAG-0100	KAJ*-01*E	2430	2900	3410	3960	4550	5190	5870	6590	7310
CJAL-0150	KAL*-01*E	3580	4270	5000	5790	6620	7510	8450	9450	10400
CJAL-0152	KALA-016E	3470	4300	5120	5940	6790	7670	8600	9590	10600
CPAK-0150	KAL*-01*E	3690	4390	5140	5960	6830	7760	8750	9810	10900
CJAL-0151	EADB-021E	3830	4540	5330	6220	7190	8230	9370	10600	11800
C8AL-0151	EADA-020E	3850	4690	5570	6500	7490	8560	9720	11000	12300
C8AL-0200	EAVA-021E	4180	5020	6010	7120	8340	9630	11000	12400	13800
CJAL-0200	EAV*-021E	4180	5020	6010	7120	8340	9630	11000	12410	13750
CNAG-0200	EAV*-021E	4180	5020	6010	7120	8340	9630	11000	12410	13750
CJAL-0300	LAH*-032E	6790	8510	10420	12530	14820	17270	19880	22630	25370
CFDP-0300	2DF3F16KE	10800	12800	14900	17300	19800	22500	25300	28300	31200
CFDP-0350	2DL3F20KE	12800	15100	17600	20200	23100	26100	29200	32600	35900
CFDP-0400	2DA3F23KE	15000	17700	20500	23400	26600	29900	33400	37100	40800
CFDP-0500	3DA3F28KE	19000	22000	25300	29000	32900	37100	41600	46300	51200
CFDP-0550	3DB3F33KE	22200	25700	29500	33500	37800	42300	47100	52100	57300
CFDP-0600	3DF3F40KE	27800	32400	37400	42900	48800	55200	62100	69500	77200
CFDP-0700	3DS3F46KE	32100	37100	42600	48400	54600	61300	68300	75700	83500

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

R-404A Low Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
100° Ambient										
CJAL-0100	KAJ*-01*E	2070	2490	2950	3450	3990	4570	5190	5850	6510
CNAG-0100	KAJ*-01*E	2070	2490	2950	3450	3990	4570	5190	5850	6510
CJAL-0150	KAL*-01*E	3050	3700	4400	5130	5910	6730	7600	8510	9390
CJAL-0152	KALA-016E	2820	3640	4430	5220	6020	6830	7680	8570	9470
CPAK-0150	KAL*-01*E	3150	3820	4540	5300	6120	6970	7890	8850	9810
CJAL-0151	EADB-021E	3250	3860	4560	5350	6230	7180	8230	9350	10500
C8AL-0151	EADA-020E	3190	4010	4840	5700	6620	7600	8660	9800	11000
C8AL-0200	EAVA-021E	3620	4370	5250	6260	7360	8540	9780	11100	12300
CJAL-0200	EAV*-021E	3620	4370	5250	6260	7360	8540	9780	11070	12290
CNAG-0200	EAV*-021E	3620	4370	5250	6260	7360	8540	9780	11070	12290
CJAL-0300	LAH*-032E	5550	7090	8830	10760	12870	15140	17570	20140	22710
CFDP-0300	2DF3F16KE	9160	11100	13200	15400	17800	20300	22900	25600	28200
CFDP-0350	2DL3F20KE	11200	13300	15700	18100	20800	23500	26400	29500	32600
CFDP-0400	2DA3F23KE	13200	15700	18400	21100	24100	27100	30300	33700	37200
CFDP-0500	3DA3F28KE	16900	19800	23000	26400	30100	34000	38100	42400	46800
CFDP-0550	3DB3F33KE	19800	23300	26900	30700	34700	38900	43300	47800	52500
CFDP-0600	3DF3F40KE	25100	29500	34200	39400	44900	50800	57200	64000	71100
CFDP-0700	3DS3F46KE	29300	34100	39200	44600	50400	56600	63000	69800	76800
110° Ambient										
CJAL-0100	KAJ*-01*E	1720	2090	2500	2950	3430	3940	4500	5100	
CNAG-0100	KAJ*-01*E	1720	2090	2500	2950	3430	3940	4500	5100	
CJAL-0150	KAL*-01*E	2440	3070	3730	4420	5140	5890	6680		
CJAL-0152	KALA-016E	2060	2890	3680	4440	5190	5950	6730	7540	8340
CPAK-0150	KAL*-01*E	2550	3200	3870	4590	5340	6130	6970	7850	8710
CJAL-0151	EADB-021E	2890	3390	3970	4650	5420	6280	7220		
C8AL-0151	EADA-020E	2530	3310	4090	4890	5720	6610	7570	8600	
C8AL-0200	EAVA-021E	3240	3870	4630	5510	6490	7540	8650		
CJAL-0200	EAV*-021E	3240	3870	4630	5510	6490	7540	8650		
CNAG-0200	EAV*-021E	3240	3870	4630	5510	6490	7540	8650		
CJAL-0300	LAH*-032E	4180	5550	7120	8870	10810	12900	15150	17550	19930
CFDP-0300	2DF3F16KE	7380	9330	11400	13500	15700	18000	20300		
CFDP-0350	2DL3F20KE	9570	11600	13800	16000	18500	21000	23600		
CFDP-0400	2DA3F23KE	11400	13800	16300	18900	21600	24400	27300		
CFDP-0500	3DA3F28KE	14400	17200	20300	23500	27000	30600	34400	38300	
CFDP-0550	3DB3F33KE	17200	20700	24200	27800	31600	35500			
CFDP-0600	3DF3F40KE	22300	26500	31000	35900	41000	46500	52400	58600	65000
CFDP-0700	3DS3F46KE	25900	30400	35300	40400	45800	51400	57400	63500	69900

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

R-404A Med Temp/High Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45
90° Ambient												
C8AJ-0100	KAR*-01*E	4870	5420	6110	6800	7520	8230	8900				
CJAM-0100	KAR*-010E	4900	5460	6150	6860	7590	8300	8990				
CJAM-0150	KAG*-010E	5730	6440	7240	8030	8890	9820	10850				
C8AJ-0200	KAK*-02*E	8170	9240	10300	11300	12400	13700	15100				
C8AM-0202	ERCA-02*E	9350	10570	11890	13160	14490	15900	17420				
CJAM-0300	ERFA-031E	14450	16260	18370	20520	22810	25240	27800				
C8AJ-0300	ERFA-031E	14800	16600	18800	20900	23200	25700	28300				
CFDP-0451	2DC3R53KE	22200	24900	28100	31500	35000	38800	42700	46800	51000	55400	59800
CFDP-0501	2DA3F23KE	26300	29400	32800	36400	40300	44300	48400	52700	57000	61400	65800
CFDP-0751	2DA3R89KE	39600	43900	48500	53400	58500	63800	69300	75000	81000	87100	93400
CFDP-1001		58100	64700	71900	79400	87300	95600	104300	113500	123000	133000	143400
100° Ambient												
C8AJ-0100	KAR*-01*E	4360	4850	5480	6120	6770	7430	8040				
CJAM-0100	KAR*-010E	4390	4880	5520	6170	6840	7500	8130				
CJAM-0150	KAG*-010E	5080	5730	6460	7180	7960	8810	9760				
C8AJ-0200	KAK*-02*E	7400	8390	9370	10300	11300	12400	13600				
C8AM-0202	ERCA-02*E	8270	9370	10590	11740	12950	14230	15630				
CJAM-0300	ERFA-031E	12930	14580	16510	18460	20550	22780	25130				
C8AJ-0300	ERFA-031E	13100	14900	16800	18800	21000	23200	25600				
CFDP-0451	2DC3R53KE	20000	22500	25400	28400	31700	35100	38600	42300	46200	50200	54200
CFDP-0501	2DA3F23KE	23900	26600	29700	32900	36300	39900	43600	47400	51300	55200	59200
CFDP-0751	2DA3R89KE	35900	39900	44200	48600	53200	58000	63000	68100	73500	79100	84800
CFDP-1001	3DB3R12ME	53400	59500	66000	72900	80000	87500	95300	103500	112100	121100	130400
110° Ambient												
C8AJ-0100	KAR*-01*E	3830	4250	4820	5400	6000	6590	7150				
CJAM-0100	KAR*-010E	3850	4280	4860	5450	6060	6660	7230				
CJAM-0150	KAG*-010E	4430	5010	5680	6330	7030	7800	8660				
C8AJ-0200	KAK*-02*E	6620	7510	8390	9190	10000	11000	12200				
C8AM-0202	ERCA-02*E	7190	8190	9290	10320	11410	12570	13850				
CJAM-0300	ERFA-031E	11410	12880	14620	16380	18270	20280	22410				
C8AJ-0300	ERFA-031E	11500	13100	14900	16700	18600	20700	22900				
CFDP-0451	2DC3R53KE	17900	20100	22800	25500	28400	31400	34600	38000	41500	45100	48800
CFDP-0501	2DA3F23KE	21500	23900	26600	29400	32400	35600	38800	42200			
CFDP-0751	2DA3R89KE	32200	35900	39800	43900	48000	52400	56800	61500			
CFDP-1001	3DB3R12ME	48600	54200	60200	66300	72700	79400	86400	93700	101400	109300	117700

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

R-407C Med Temp/High Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45
90° Ambient												
CFDP-0451	2DC3R53KE	18400	20700	23500	26600	30100	34000	38300	43000	48200	53700	59600
CFDP-0501	2DA3F23KE	22600	25300	28400	31900	35800	40200	45000	50200	55900	62000	68500
CFDP-0751	2DA3R89KE	31000	35100	39800	44900	50600	56700	63400	70500	78200	86500	95200
CFDP-1001	3DB3R12ME	51000	57600	64800	72600	80900	89900	99300	109300	119900	130800	142300
100° Ambient												
CFDP-0451	2DC3R53KE		19000	21600	24500	27800	31500	35600	40100	45000	50300	56100
CFDP-0501	2DA3F23KE	21100	23400	26200	29500	33200	37300	41800	46900	52300	58200	
CFDP-0751	2DA3R89KE		32300	36700	41600	47000	52800	59200	66100	73500	81400	
CFDP-1001	3DB3R12ME	45900	52600	59800	67300	75400	83900	92800	102200	111900	122100	132600
110° Ambient												
CFDP-0451	2DC3R53KE			19900	22600	25700	29100	33000	37400			
CFDP-0501	2DA3F23KE			24400	27300	30800	34700	39000	43800			
CFDP-0751	2DA3R89KE			33800	38400	43600	49200	55300				
CFDP-1001	3DB3R12ME		46300	53500	61100	68900	77100	85600	94500	103600	113000	122700

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

Physical and Electrical Data

Copelametic™ air-cooled condensing units

Models	BOM	Compressor Electrical	Length	Width	Height	Liquid Connection	Suction Connection
C3AH-0076-CAV	001	KAN2-007E-CAV	33.28	20	19.08	3/8 S	5/8 S
C3AH-0076-TAC	001	KAN1-0075-TAC	33.28	20	19.1	3/8 S	5/8 S
C3AH-0150-TAC	001	KAGA-0150-TAC	33.38	20	19.06	3/8 S	7/8 S
C3AH-0204-TAD	001	KAKA-0200-TAD	33.38	20	19.06	1/2 S	7/8 S
C3AH-0303-TAD	020	ERF1-0310-TAD	38.38	30	29.09	1/2 S	1-1/8 S
C3AM-0076-CAV	001	KAE2-007E-CAV	33.28	20	19.08	3/8 S	5/8 S
C3AM-0076-TAC	001	KAEI-0075-TAC	33.28	20	19.08	3/8 S	5/8 S
C3AM-0101-TAC	001	KAM1-0100-TAC	33.38	20	19.06	3/8 S	5/8 S
C3AM-0202-CAB	001	ERC2-0200-CAB	33.38	20	19.06	1/2 S	7/8 S
C7AB-0076-TAC	001	KAMI-0075-TAC	33.28	20	19.08	3/8 S	5/8 S
C7AB-0200-TAD	001	EAV1-0200-TAD	33.38	20	19.06	1/2 S	7/8 S
C7AB-0300-CAB	001	LAH1-0310-CAB	38.38	30	29.09	1/2 S	1-1/8 S
C7AB-0300-TAC	001	LAH1-0310-TAC	38.38	30	29.09	1/2 S	1-1/8 S
C7AB-0300-TAD	001	LAH1-0310-TAD	38.38	30	29.09	1/2 S	1-1/8 S
C8AJ-0076-CAV	001	KANB-007E-CAV	33.3	20	19.1	3/8 S	5/8 S
C8AJ-0076-TAC	001	KANA-007E-TAC	33.28	20	19.1	3/8 S	5/8 S
C8AJ-0100-CAV	001	KARB-010E-CAV	33.38	20	19.06	3/8 S	5/8 S
C8AJ-0100-TAC	001	KARA-010E-TAC	33.38	20	19.06	3/8 S	5/8 S
C8AJ-0100-TAD	001	KARA-011E-TAD	33.38	20	19.06	3/8 S	5/8 S
C8AJ-0200-CAV	001	KAKB-021E-CAV	33.38	20	19.06	1/2 S	7/8 S
C8AJ-0200-TAC	001	KAKA-020E-TAC	33.38	20	19.06	3/8 S	7/8 S
C8AJ-0300-TAC	001	ERFA-031E-TAC	38.32	30	29.12	1/2 S	1-1/8 S
C8AJ-0300-TAD	001	ERFA-031E-TAD	38.32	30	29.12	1/2 S	1-1/8 S
C8AL-0076-TAC	001	KAMA-007E-TAC	33.28	20	19.08	3/8 S	5/8 S
C8AL-0151-TAC	001	EADA-020E-TAC	33.38	20	19.06	3/8 S	7/8 S
C8AL-0200-TAD	001	EAVA-021E-TAD	33.38	20	19.06	1/2 S	7/8 S
C8AM-0202-TAC	001	ERCA-021E-TAC	33.29	20	19.08	1/2 S	7/8 S
C8AM-0202-TAD	001	ERCA-020E-TAD	33.38	20	19.06	1/2 S	7/8 S
CBAM-0103-TAC	001	KAK1-0100-TAC	33.38	20	19.06	3/8 S	5/8 S
CBAM-0153-TAC	001	KATA-0150-TAC	33.38	20	19.06	3/8 S	7/8 S
CFAP-0151-CAV	072	KALB-015E-CAV	33.58	20	19.08	3/8 S	7/8 S
CFAP-0200-CAV	001	EAVB-021E-CAV	33.38	20	19.08	1/2 S	7/8 S
CFDP-0300-CFB	001	2DF3F16KE-CFB	38.38	30	29.09	1/2 S	1-3/8 S
CFDP-0300-TFC	001	2DF3F16KE-TFC	38.4	30	29.1	1/2 S	1-3/8 S
CFDP-0300-TFD	001	2DF3F16KE-TFD	38.4	30	29.1	1/2 S	1-3/8 S
CFDP-0300-TFE	001	2DF3F16KE-TFE	38.4	30	29.1	1/2 S	1-3/8 S
CFDP-0350-TFC	001	2DL3F20KE-TFC	38.38	30	29.09	5/8 S	1-3/8 S
CFDP-0350-TFD	001	2DL3F20KE-TFD	38.38	30	29.09	5/8 S	1-3/8 S
CFDP-0350-TFE	001	2DL3F20KE-TFE	38.38	30	29.09	5/8 S	1-3/8 S
CFDP-0400-TFC	001	2DA3F23KE-TFC	38.38	30	29.09	5/8 S	1-3/8 S
CFDP-0400-TFD	001	2DA3F23KE-TFD	38.38	30	29.09	5/8 S	1-3/8 S
CFDP-0400-TFE	001	2DA3F23KE-TFE	38.38	30	29.09	5/8 S	1-3/8 S

Physical and Electrical Data

Copelametic™ 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			
C3AH-0076-CAV			24.6			10.5	15	208
C3AH-0076-TAC			24.6			7.3	15	208
C3AH-0150-TAC			24.6			9.8	15	219
C3AH-0204-TAD			24.6			5.4	15	300
C3AH-0303-TAD			63			10.4	15	415
C3AM-0076-CAV			24.6			6	15	208
C3AM-0076-TAC			24.6			7.2	15	208
C3AM-0101-TAC			24.6			8.5	15	213
C3AM-0202-CAB			24.6			15.4	20	270
C7AB-0076-TAC	27.2					6.3	15	208
C7AB-0200-TAD	27.2					6.2	15	280
C7AB-0300-CAB	69.8					23.3	30	460
C7AB-0300-TAC	69.8					17.8	20	429
C7AB-0300-TAD	69.8					9.4	15	460
C8AJ-0076-CAV			24.6	21.2		10.5	15	208
C8AJ-0076-TAC			24.6	21.2		7.3	15	208
C8AJ-0100-CAV			24.6	21.2		12.2	15	209
C8AJ-0100-TAC			24.6	21.2		8.3	15	202
C8AJ-0100-TAD			24.6	21.2		4.1	15	209
C8AJ-0200-CAV			24.6	21.2		16.2	20	209
C8AJ-0200-TAC			24.6	21.2		11.4	15	212
C8AJ-0300-TAC			63	54.8		19.9	25	388
C8AJ-0300-TAD			63	54.8		9.7	15	440
C8AL-0076-TAC			24.6	21.2		6.9	15	208
C8AL-0151-TAC			24.6	21.2		10.3	15	282
C8AL-0200-TAD			24.6	21.2		6.1	15	207
C8AM-0202-TAC			24.6	21.2		13.9	15	282
C8AM-0202-TAD			24.6	21.2		6.0	15	297
CBAM-0103-TAC	27.2					7.0	15	186
CBAM-0153-TAC	27.2					9.2	15	192
CFAP-0151-CAV	27.2	25	24.6	21.2	23.4	15.3	20	280
CFAP-0200-CAV	27.2	25	24.6	21.2	23.4	20.2	30	307
CFDP-0300-CFB	69.8	64	63	54.8	60	36.7	50	527
CFDP-0300-TFC	69.8	64	63	54.8	60	25.4	35	522
CFDP-0300-TFD	69.8	64	63	54.8	60	12.5	15	513
CFDP-0300-TFE	69.8	64	63	54.8	60	10.3	15	511
CFDP-0350-TFC	69.8	64	63	54.8	60	37.3	50	310
CFDP-0350-TFD	69.8	64	63	54.8	60	15.2	20	534
CFDP-0350-TFE	69.8	64	63	54.8	60	11.5	15	534
CFDP-0400-TFC	69.8	64	63	54.8	60	40.4	60	550
CFDP-0400-TFD	69.8	64	63	54.8	60	15.2	20	528
CFDP-0400-TFE	69.8	64	63	54.8	60	13.3	20	533

Physical and Electrical Data

Copelametic™ air-cooled condensing units

Models	BOM	Compressor Electrical	Length	Width	Height	Liquid Connection	Suction Connection
CFDP-0451-TFC	001	2DC3R53KE-TFC	38.38	30	29.09	5/8 S	1-3/8 S
CFDP-0451-TFD	001	2DA3F23KE-TFD	38.38	30	29.09	5/8 S	1-3/8 S
CFDP-0500-TFC	001	3DA3F28KE-TFC	44.88	36	30.73	5/8 S	1-3/8 S
CFDP-0500-TFD	001	3DA3F28KE-TFD	44.88	36	30.73	5/8 S	1-3/8 S
CFDP-0501-TFC	001	2DA3F23KE-TFC	38.38	30	29.09	5/8 S	1-3/8 S
CFDP-0501-TFD	001	2DA3F23KE-TFD	38.38	30	29.09	5/8 S	1-3/8 S
CFDP-0550-TFC	001	3DB3F33KE-TFC	44.88	36	30.73	5/8 S	1-3/8 S
CFDP-0550-TFD	001	3DB3F33KE-TFD	44.88	36	30.73	5/8 S	1-3/8 S
CFDP-0550-TFE	001	3DB3F33KE-TFE	44.88	36	30.73	5/8 S	1-3/8 S
CFDP-0600-TFC	001	3DF3F40KE-TFC	66.9	39.13	36.26	7/8 S	1-3/8 S
CFDP-0600-TFD	001	3DF3F40KE-TFD	66	39.11	36.26	7/8 S	1-3/8 S
CFDP-0700-TFC	001	3DS3F46KE-TFC	66.9	39.13	36.26	7/8 S	1-3/8 S
CFDP-0700-TFD	001	3DS3F46KE-TFD	66	39.11	36.26	7/8 S	1-3/8 S
CFDP-0751-TFC	001	2DA3R89KE-TFC	44.88	36	31	5/8 S	1-3/8 S
CFDP-1001-TFC	001	3DB3R12ME-TFC	66.9	39.13	36.26	7/8 S	1-3/8 S
CJAL-0100-TAD	001	KAJA-011E-TAD	33.38	20	19.06	3/8 S	5/8 S
CJAL-0150-CAV	072	KALB-015E-CAV	33.58	20	19.06	3/8 S	7/8 S
CJAL-0151-CAB	072	EADB-021E-CAB	33.58	19.05	20	3/8 S	7/8 S
CJAL-0152-TAD	001	KALA-016E-TAD	33.38	20	19.06	3/8 S	7/8 S
CJAL-0200-TAE	001	EAVA-021E-TAE	33.38	20	19.06	1/2 S	7/8 S
CJAL-0300-CAB	001	LAHB-032E-CAB	38.38	30	29.09	1/2 S	1-1/8 S
CJAL-0300-TAC	001	LAHA-032E-TAC	38.31	30	29.12	1/2 S	1-1/8 S
CJAL-0300-TAD	001	LAHA-032E-TAD	38.31	30	29.12	1/2 S	1-1/8 S
CJAL-0300-TAE	001	LAHA-032E-TAE	38.32	30	29.12	1/2 S	1-1/8 S
CJAM-0076-CAV	001	KANB-007E-CAV	33.28	20	19.08	3/8 S	5/8 S
CJAU-0503-TFC	001	9TK2-050E-TFC	46.22	37.57	31.04	5/8 S	7/8 S
CLAL-0152-CAB	001	EADB-0200-CAB	33.38	20	19.06	1/2 S	7/8 S
CLAL-0300-TAC	001	LAHA-0310-TAC	38.38	30	29.09	1/2 S	1-1/8 S
CLAL-0300-TAD	001	LAHA-0310-TAD	38.38	30	29.09	1/2 S	1-1/8 S
CNAG-0076-CAV	001	KAMB-007E-CAV	33.3	20	19.1	3/8 S	5/8 S
CNAG-0100-CAV	001	KAJB-010E-CAV	33.38	20	19.06	3/8 S	5/8 S
CNAG-0100-TAC	001	KAJA-011E-TAC	33.38	20	19.06	3/8 S	5/8 S
CNAG-0200-TAC	001	EAVA-021E-TAC	33.38	20	19.06	1/2 S	7/8 S
CPAK-0150-CAV	001	KALB-015E-CAV	33.38	20	19.06	1/2 S	7/8 S
CTAH-0150-TAC	020	KALA-016E-TAC	33.38	20	19.06	3/8 S	7/8 S
CTAM-0300-TAC	001	LAHA-031E-TAC	38.38	30	29.09	1/2 S	1-1/8 S

Physical and Electrical Data

Copelametic™ 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			
CFDP-0451-TFC	69.8	64	63	54.8	60	32.3	50	330
CFDP-0451-TFD	69.8	64	63	54.8	60	15.4	20	520
CFDP-0500-TFC	81.6	74.8	73.8	64	70.2	42.3	60	679
CFDP-0500-TFD	81.6	74.8	73.8	64	70.2	19.5	30	550
CFDP-0501-TFC	69.8	64	63	54.8	60	32.3	50	530
CFDP-0501-TFD	69.8	64	63	54.8	60	15.5	50	530
CFDP-0550-TFC	81.6	74.8	73.8	64	70.2	43.8	70	667
CFDP-0550-TFD	81.6	74.8	73.8	64	70.2	22.5	35	661
CFDP-0550-TFE	81.6	74.8	73.8	64	70.2	15.7	20	669
CFDP-0600-TFC	101.1	92.7	91.5	79.2	87	57.6	80	965
CFDP-0600-TFD	101.1	92.7	91.5	79.2	87	25.9	35	965
CFDP-0700-TFC	101.1	92.7	91.5	79.2	87	61.3	90	952
CFDP-0700-TFD	101.1	92.7	91.5	79.2	87	28.1	40	942
CFDP-0751-TFC	81.6	74.8	73.8	64	70.2	45.7	70	601
CFDP-1001-TFC	101.1	92.7	91.5	79.2	87	63.3	90	935
CJAL-0100-TAD				21.2		4.2	15	204
CJAL-0150-CAV				21.2		15.3	20	220
CJAL-0151-CAB				21.2		15.4	20	283
CJAL-0152-TAD				21.2		5.5	15	219
CJAL-0200-TAE				21.2		4.9	15	307
CJAL-0300-CAB				54.8		25.3	35	444
CJAL-0300-TAC				54.8		20.3	25	410
CJAL-0300-TAD				54.8		9.9	15	441
CJAL-0300-TAE				54.8		7.0	15	441
CJAM-0076-CAV				21.2		9.7	15	208
CJAU-0503-TFC				64		31.1	45	732
CLAL-0152-CAB			24.6			12.3	15	240
CLAL-0300-TAC			63			17.8	20	427
CLAL-0300-TAD			63			8.9	15	421
CNAG-0076-CAV		25	24.6	21.2		9.9	15	196
CNAG-0100-CAV		25	24.6	21.2		11.5	15	190
CNAG-0100-TAC		25	24.6	21.2		8.7	15	190
CNAG-0200-TAC		25	24.6	21.2		11.1	15	286
CPAK-0150-CAV		25		21.2		14.2	20	207
CTAH-0150-TAC		25				11.2	15	212
CTAM-0300-TAC		64				15.0	15	421

About Emerson

Emerson (NYSE: EMR), headquartered in St. Louis, Missouri (USA), is a global technology and engineering company providing innovative solutions for customers in industrial, commercial, and residential markets. Our Emerson Automation Solutions business helps process, hybrid, and discrete manufacturers maximize production, protect personnel and the environment while optimizing their energy and operating costs. Our Emerson Commercial and Residential Solutions business helps ensure human comfort and health, protect food quality and safety, advance energy efficiency, and create sustainable infrastructure. For more information visit Emerson.com.

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Copeland™ D-Line

Copelametic™ air-cooled and water cooled condensing units



Product Information

Horsepower: 3/4 - 3
Temperature Applications: Low/Medium/High
Refrigerants: R-12, R-134a, R-404A,
R-22, R-407C
Installation Applications: A variety of applications
including walk-ins



Nomenclature • Semi-Hermetic Condensing Units

Temperature Application		Compressor Motor Types		
Description	Code	Phase	Description	Code
High Temperature	H	1	Capacitor Run – Capacitor Start	C
Medium Temperature	M	1	Induction Run – Capacitor Start	I
Low Temperature	L	1	Induction Run – Split Phase	S
Extended Medium Temp.	F	1	Capacitor Run – Permanent Split Capacitor	P
Extra Low Temp.	E	3	Three Phase	T
High Temperature	B	3	Wye (star) Delta	E
R22/404A LT & R134a HT	G	3	6 Lead Part Winding or Across the Line – except 575V	F
R22 HT & R404A MT	J			
R404A LT & R134a HT	K			
Two Stage	U			
Two Stage	T			

Product Variations
Numbers will be assigned as follows:

- Number –100 is standard compressor used in Copeland™ condensing units.
- Number –200 indicates a STANDARD compressor parts B/M and model no.
- Number –201 and larger will be assigned for all other variations of a given model.
- Number –800 indicates a standard replacement compressor and Component Parts B/M and model no. –240 volt control.
- Number –801 indicates a standard replacement compressor and component parts B/M and model no. –120 volt control.

Receiver Base	C
Flat Metal Base	E, D
Water Condenser Base	W
Transport Unit	T



Refrigerant	
R404A/507	J/4
R134a	T/2
R12	B/7
R22	3/M/L/C
Multiple	F
R22/407C	G
R22	9
R134a/404A/22	N
R134a/404A	P
R404A/22	8

Air Cooled Steel Base	A
Air Cooled Copevap Base	E
Water Cooled Steel Base	W
Custom Base	C
Discus	D

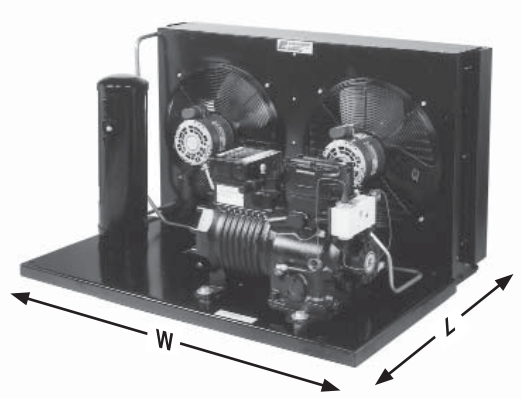
Comp. Motor Rating	
Nominal (HP)	Code
1/2	0050
3/4	0075
1	0100
1-1/2	0150
2	0200
3	0300
4	0400
5	0500
6	0600
7-1/2	0750
9	0900
10	1000
15	1500
20	2000
22	2200
25	2500
27	2700
30	3000
40	4000
50	5000
60	6000
70	7000
80	8000

Note: Left position may be a letter indicating a revision change.

Compressor Motor Protection	
Type Protection	Code
External Inherent Protection-One Protector, (Line Break) Use with Contactor	A
Internal Inherent Protection-One Protector (Line Break) Use with Contactor	F
Internal Thermal Protectors-Electronic Sensors; and Control Module External Use with Contactor	S

Electrical Codes		
60 Hz.	50 Hz.	Code
115-1	100-1	A
230-1	-	B
208/230-3	200/220-3	C
460-3	-	D
575-3	-	E
-	230-1	G
-	380/420-3	M
208/230-1	200-1	V
-	220-3	W
-	220/240-1	Z

Note: When applicable, specific 50 Hz ratings (not necessarily identical to typical shown above) will be shown as alternate on 60 Hz rated models.



Bill of Materials Matrix

BOM	Options															UL		
	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	Head Pressure Control Valve	Water Valve	CoreSense	Listed	Recognized
Air Cooled																		
020	X	X		X	X	X				X							X	
072	X	X		X	X	X				X	X	X					X	
212	X	X		X	X	X												X*
Water Cooled																		
020	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. BOMs with 4 or 6 as the middle digit are OEM special units.

Copelametic™ air-cooled condensing units

Features	Benefits
Copeland™ Semi-hermetic Compressor	Reliability
	High Energy Efficiency
Modular Components	Replacement Serviceability
Positive Displacement Oil Pump	Application Flexibility
Low Profile	More Cooler Space, Fewer Stockouts, Application Flexibility
Low Re-expansion Volumes	Decrease Energy Costs, Greater Capacity
Lower Operating Speeds	Reduces Operating Component Stress Low Sound Lower Maintenance Costs

Resources and Support

EmersonClimate.com

- Online Product Information and Technical Data
 - Application Engineering Bulletins
 - Instruction Sheets
 - Marketing Brochures
- Where to Buy

Application Engineering Bulletins

- 4-1094 Identification of Port Locations in Heads of Copelametic™ Compressors
- 4-1135 Cooling Requirement for Copelametic Compressors
- 4-1166 Copeland™ Oil Pumps
- 4-1273 Factors to Consider in Converting Compressor Rated Capacity to Actual Capacity
- 4-1295 HFC-134A Refrigerant Guidelines
- 5-1174 Water flow requirement and water pressure drop for Copeland water cooled condensing units
- 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

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

R-12 Low Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-40	-35	-30	-25	-20	-15	-10
90° Ambient								
DBAL-0075	KAA2-0075	1440	1790	2130	2480	2850	3280	3780
100° Ambient								
DBAL-0075	KAA2-0075	1270	1600	1920	2250	2620	3030	3510
110° Ambient								
DBAL-0075	KAA2-0075	1110	1420	1720	2030	2380	2770	

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

R-12 Med Temp

Copeland air-cooled condensing units

Unit Model	Compressor	0	5	10	15	20	25	30	35	40	45
90° Ambient											
D7AB-0075	KAM2-0075	3460	3840	4270	4740	5260	5820	6410	7030	7680	8350
D7AB-0100	KAJ3-0100	4370	4900	5450	6050	6670	7340	8030	8750	9500	10300
D7AB-0150	KALA-0150	6300	7110	7990	8960	9980	11100	12200	13400	14700	16000
D7AB-0200	EAV1-0200	8580	9960	11300	12700	14200	15600	17200	18700	20300	22000
100° Ambient											
D7AB-0075	KAM2-0075	3270	3590	3950	4370	4830	5340	5880	6450	7050	7670
D7AB-0100	KAJ3-0100	4000	4480	4990	5530	6110	6720	7360	8020	8700	9400
D7AB-0150	KALA-0150	5850	6610	7430	8330	9290	10300	11400	12500	13700	14900
D7AB-0200	EAV1-0200	8040	9320	10600	11900	13200	14500	16000	17400	18800	20400
110° Ambient											
D7AB-0075	KAM2-0075	3020	3280	3580	3940	4350	4800	5290	5810	6370	
D7AB-0100	KAJ3-0100	3620	4060	4510	5020	5530	6080	6660	7260		
D7AB-0150	KALA-0150	5400	6090	6850	7670	8560	9500	10500	11500	12600	13700
D7AB-0200	EAV1-0200	7540	8720	9880	11100	12200	13400	14800			

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

R-22 Low Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
90° Ambient										
DNAG-0200	EAV*-021E	4160	4790	5670	6770	8040	9450	11000	12500	14100
100° Ambient										
DNAG-0200	EAV*-021E	3760	4330	5130	6140	7320	8610	10000	11500	12900
110° Ambient										
DNAG-0200	EAV*-021E	3230	3730	4460	5380	6460	7640	8910	10200	

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

R-22 Med Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45
90° Ambient												
D3AH-0150	KAG*-0150		6340	7090	7950	8930	10000	11200	12400	13800	15200	16600
D3AH-0200	ERA1-0200		5550	7050	8610	10200	11900	13700	15500	17300	19200	21100
D8AJ-0200	KAKA-020E KAKB-021E		8100	9570	11000	12500	14000	15600	17200	19000	20800	22800
D3AM-0200	KAK*-0200	7290	8530	9820	11100	12500	13900	15400				
D3AM-0201	ERC1-0200	8080	9230	10500	11800	13300	14900	16700				
100° Ambient												
D3AH-0150	KAG*-0150		5810	6490	7290	8200	9220	10300	11500	12800	14200	15600
D3AH-0200	ERA1-0200		4680	6020	7440	8920	10500	12000	13700	15300	17000	18800
D8AJ-0200	KAKA-020E KAKB-021E		7380	8820	10200	11700	13100	14600	16100	17800	19500	21300
D3AM-0200	KAK*-0200	6640	7840	9070	10300	11600	12900	14300				
D3AM-0201	ERC1-0200	7350	8400	9550	10800	12200	13700	15300				
110° Ambient												
D3AH-0150	KAG*-0150		5340	5950	6690	7540	8510	9570	10700	12000		
D3AH-0200	ERA1-0200		3750	4940	6200	7520	8890	10300	11800	13300		
D8AJ-0200	KAKA-020E KAKB-021E		6650	8070	9440	10800	12200	13600	15000	16500	18100	
D3AM-0200	KAK*-0200	5980	7140	8310	9490	10700	12000	13200				
D3AM-0201	ERC1-0200	6610	7550	8600	9740	11000	12400	14000				

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

R-134a

Copeland air-cooled condensing units

Unit Model	Compressor	0	5	10	15	20	25	30	35	40	45
90° Ambient											
DNAG-0200	EAV*-021E	8380	9710	11090	12560	14120	15770	17520	19390	21370	23480
100° Ambient											
DNAG-0200	EAV*-021E	7590	8830	10130	11490	12940	14480	16120	17870	19730	21720
110° Ambient											
DNAG-0200	EAV*-021E	6810	7960	9150	10410	11750	13180	14700	16330	18070	

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

R-404A Low Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
90° Ambient										
DJAL-0075	KAMB-007E	1900	2140	2470	2870	3330	3840	4370	4910	5420
DJAL-0076	KAJB-007E	2260	2680	3120	3590	4100				
DJAL-0100	KAJB-010E	2330	2760	3220	3700	4220	4770	5350	5960	6550
DJAL-0149	KALB-015E	3440	4070	4740	5450	6200	6970	7780	8620	9410
DJAL-0150	KALA-016E	3410	4200	4990	5780	6590	7420	8300	9220	10150
DJAL-0150	KALB-015E	3410	4200	4990	5780	6590	7420	8300	9220	10150
DJAL-0151	EADA-020E	3900	4610	5410	6290	7250	8290	9410	10600	11800
DNAG-0200	EAVA-021E	4280	5170	6210	7390	8690	10090	11570	13110	14630
DNAG-0200	EAVB-021E	4280	5170	6210	7390	8690	10090	11570	13110	14630
DJAL-0300	LAHA-032E	6380	7980	9770	11700	13800	16000	18300	20700	23000
DJAL-0300	LAHB-032E	6380	7980	9770	11700	13800	16000	18300	20700	23000
100° Ambient										
DJAL-0075	KAMB-007E	1610	1830	2140	2510	2940	3400	3890	4380	4820
DJAL-0076	KAJB-007E	1900	2280	2700	3130	3590				
DJAL-0100	KAJB-010E	1990	2370	2780	3220	3700	4190	4720	5270	5810
DJAL-0149	KALB-015E	2910	3520	4150	4810	5490	6200	6940	7700	
DJAL-0150	KALA-016E	2760	3550	4310	5070	5820	6590	7390	8220	9060
DJAL-0150	KALB-015E	2760	3550	4310	5070	5820	6590	7390	8220	9060
DJAL-0151	EADA-020E	3300	3920	4620	5410	6280	7230	8260	9370	10500
DNAG-0200	EAVA-021E	3690	4470	5410	6470	7660	8930	10280	11680	13060
DNAG-0200	EAVB-021E	3690	4470	5410	6470	7660	8930	10280	11680	13060
DJAL-0300	LAHA-032E	4990	6560	8270	10100	12100	14100	16200	18400	20500
DJAL-0300	LAHB-032E	4990	6560	8270	10100	12100	14100	16200	18400	20500
110° Ambient										
DJAL-0075	KAMB-007E	1240	1450	1730	2070	2460	2880	3310		
DJAL-0076	KAJB-007E	1510	1880	2270	2660	3070				
DJAL-0100	KAJB-010E	1650	1990	2360	2750	3170				
DJAL-0149	KALB-015E	2310	2880	3470	4080					
DJAL-0150	KALA-016E	2020	2820	3570	4300	5020	5730	6470	7230	
DJAL-0150	KALB-015E	2020	2820	3570	4300	5020	5730	6470	7230	
DJAL-0151	EADA-020E	2910	3420	4010	4690	5460	6310	7250		
DNAG-0200	EAVA-021E	3290	3940	4740	5680	6720	7850	9060	10320	11550
DNAG-0200	EAVB-021E	3290	3940	4740	5680	6720	7850	9060	10320	11550
DJAL-0300	LAHA-032E	3570	5110	6750	8490	10300	12200	14100	16100	
DJAL-0300	LAHB-032E	3570	5110	6750	8490	10300	12200	14100	16100	

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

R-404A Med Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-5	0	5	10	15	20	25
90° Ambient								
DJAM-0150	KAGA-010E KAGB-010E	5830	6550	7380	8230	9110	10000	11000
DJAM-0200	KAKA-020E	8200	9280	10300	11300	12400	13600	15000
D8AJ-0200	KAKA-020E KAKB-021E	8410	9550	10700	11800	13000	14300	15900
D8AM-0201	ERCA-020E ERCA-021E	9800	11100	12600	14000	15400	17000	18700
D8AJ-0300	ERFA-031E	14600	16400	18400	20500	22600	25000	27400
100° Ambient								
DJAM-0150	KAGA-010E KAGB-010E	5230	5890	6650	7420	8220	9040	9860
DJAM-0200	KAKA-020E	7430	8420	9370	10300	11200	12300	13600
D8AJ-0200	KAKA-020E KAKB-021E	7630	8680	9710	10700	11800	13000	14400
D8AM-0201	ERCA-020E ERCA-021E	8670	9890	11200	12500	13800	15200	16800
D8AJ-0300	ERFA-031E	12900	14600	16500	18400	20400	22500	24800
110° Ambient								
DJAM-0150	KAGA-010E KAGB-010E	4600	5200	5890	6580	7300	8020	8740
DJAM-0200	KAKA-020E	6650	7540	8390	9180	10000	11000	12100
D8AJ-0200	KAKA-020E KAKB-021E	6840	7790	8720	9590	10500	11600	12800
D8AM-0201	ERCA-020E ERCA-021E	7550	8660	9840	11000	12200	13500	14900
D8AJ-0300	ERFA-031E	11400	12900	14600	16400	18200	20100	22100

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

Physical and Electrical Data

Copelametic™ air-cooled condensing units

Unit Model	BOM	Compressor Electrical	Length	Width	Height	Liquid	Suction
D3AH-0150-TAD	020	KAGA-0150-TAD	24.38	31.5	15.09	3/8 S	7/8 S
D3AH-0200-TAD	020	ERA1-0200-TAD	28	32	15.04	3/8 S	7/8 S
D3AM-0200-CAV	020	KAKB-0200-CAV	28	32	15.04	3/8 S	7/8 S
D3AM-0200-TAC	020	KAKA-0200-TAC	28	32	15.04	3/8 S	7/8 S
D3AM-0200-TAD	020	KAKA-0200-TAD	28	32	15.04	3/8 S	7/8 S
D3AM-0201-TAC	020	ERC1-0200-TAC	28	32	15.04	3/8 S	7/8 S
D7AB-0075-CAV	020	KAM2-0075-CAV	20	23.4	11.4	3/8 S	5/8 S
D7AB-0100-CAA	020	KAJ3-0100-CAA	19.1	25.8	13.1	3/8 S	5/8 S
D7AB-0100-CAV	020	KAJ3-0100-CAV	19.1	25.8	13.1	3/8 S	5/8 S
D7AB-0100-TAC	020	KAJ1-0100-TAC	19.08	25.76	12.06	3/8 S	5/8 S
D7AB-0150-CAV	020	KALB-0150-CAV	24.38	31.5	15.09	3/8 S	7/8 S
D7AB-0150-TAC	020	KALA-0150-TAC	24.38	31.5	15.09	3/8 S	7/8 S
D7AB-0150-TAD	020	KALA-0150-TAD	24.38	31.5	15.1	3/8 S	7/8 S
D7AB-0200-CAB	020	EAV2-0200-CAB	28	32	15.07	3/8 S	7/8 S
D7AB-0200-TAC	020	EAV1-0200-TAC	28	32	15.04	3/8 S	7/8 S
D7AB-0200-TAD	020	EAV1-0200-TAD	28	32	15.04	3/8 S	7/8 S
D8AJ-0200-CAV	020	KAKB-021E-CAV	26.8	34	19	3/8 S	7/8 S
D8AJ-0200-TAC	020	KAKA-020E-TAC	26.8	34	19	3/8 S	7/8 S
D8AJ-0300-TAC	020	ERFA-031E-TAC	26.8	34	19	3/8 S	7/8 S
D8AJ-0300-TAD	020	ERFA-031E-TAD	26.8	34	19	3/8 S	7/8 S
D8AM-0201-TAC	020	ERCA-021E-TAC	27	34	19	3/8 S	7/8 S
D8AM-0201-TAD	020	ERCA-020E-TAD	27	34	19	3/8 S	7/8 S
DBAL-0075-IAA	212	KAA2-0075-IAA	19.8	23.4	11.4	3/8 S	5/8 S
DJAL-0075-CAA	020	KAMB-007E-CAA	19.8	23.4	11.4	3/8 S	5/8 S
DJAL-0075-CAA	212	KAMB-007E-CAA	19.75	22.5	11.44	3/8 S	5/8 S
DJAL-0075-CAV	212	KAMB-007E-CAV	19.5	23.4	11.54	3/8 S	5/8 S
DJAL-0076-IAA	020	KAJB-007E-IAA	19.8	22.4	11	3/8 S	5/8 S
DJAL-0149-CAV	212	KALB-015E-CAV	19	25.6	13.2	3/8 S	5/8 S
DJAL-0149-CAV	072	KALB-015E-CAV	19	25.77	13.19	3/8 S	5/8 S
DJAL-0150-TAD	020	KALA-016E-TAD	24.38	31.5	15.09	3/8 S	7/8 S
DJAL-0151-TAC	020	EADA-020E-TAC	24.25	31.5	15.1	3/8 S	7/8 S
DJAL-0300-TAD	020	LAHA-032E-TAD	26.21	34.06	18.88	3/8 S	1-1/8 S
DJAM-0150-CAV	020	KAGB-010E-CAV	24.38	31.5	15.1	3/8 S	7/8 S
DJAM-0200-TAC	020	KAKA-020E-TAC	28	32	15.04	3/8 S	7/8 S
DNAG-0200-CAV	020	EAVB-021E-CAV	26.8	34	19	3/8 S	7/8 S
DNAG-0200-TAC	020	EAVA-021E-TAC	26.8	34	19	3/8 S	7/8 S

Physical and Electrical Data

Copelametic™ air-cooled condensing units

Unit Model	BOM	R-12	R-22	R-134a	R-404A	MCA	Max Fuse	Ship Weight
D3AH-0150-TAD	020		12.9			4.6	15	243
D3AH-0200-TAD	020		12.9			5.9	15	304
D3AM-0200-CAV	020		12.9			15.6	20	295
D3AM-0200-TAC	020		12.9			10.8	15	295
D3AM-0200-TAD	020		12.9			5.2	15	
D3AM-0201-TAC	020		12.9			10.8	15	
D7AB-0075-CAV	020	8.1				8.4	15	142
D7AB-0100-CAA	020	13.2				17.7	25	
D7AB-0100-CAV	020	13.2				10.0	15	157
D7AB-0100-TAC	020	13.2				5.5	15	
D7AB-0150-CAV	020	13.2				14.7	20	243
D7AB-0150-TAC	020	13.2				9.1	15	243
D7AB-0150-TAD	020	13.2				5.1	15	243
D7AB-0200-CAB	020	13.2				14.8	20	
D7AB-0200-TAC	020	13.2				10.6	15	
D7AB-0200-TAD	020	13.2				5.9	15	
D8AJ-0200-CAV	020		12.9		11.2	15.6	20	248
D8AJ-0200-TAC	020		12.9		11.2	10.8	15	251
D8AJ-0300-TAC	020		12.9		11.2	21.3	25	342
D8AJ-0300-TAD	020		12.9		11.2	10.5	15	344
D8AM-0201-TAC	020		12.9		11.2	13.3	15	350
D8AM-0201-TAD	020		12.9		11.2	5.9	15	336
DBAL-0075-IAA	212	8.1				15.0	20	146
DJAL-0075-CAA	020				6.3	15.4	20	150
DJAL-0075-CAA	212				6.3	15.4	20	141
DJAL-0075-CAV	212				6.3	8.4	15	140
DJAL-0076-IAA	020				6.3	15.2	20	140
DJAL-0149-CAV	212				11.2	13.8	20	158
DJAL-0149-CAV	072				11.2	13.6	20	165
DJAL-0150-TAD	020				11.2	5.7	15	248
DJAL-0151-TAC	020				11.2	10.8	15	
DJAL-0300-TAD	020				11.2	10.7	15	383
DJAM-0150-CAV	020				11.2	11.7	15	243
DJAM-0200-TAC	020				11.2	10.8	15	
DNAG-0200-CAV	020		12.9	13.1	11.2	20.7	30	440
DNAG-0200-TAC	020		12.9	13.1	11.2	11.6	15	323

Copeland™ 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 65°F return gas, 5°F subcooling

R-22 Low Temp

Unit Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0	-40	-20	0
D3WM-C200	KWKA-0200	2380	2910	3490	4110	4810	5600	6500	7520	8680	0.8	1.5	2.5

R-22 Med Temp

Unit Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45	0	25	45
D3WH-C150	KWG*-0150		6390	7270	8310	9510	10900	12300	14000	15700	17600	19600	1.9	3.1	4.6
D3WM-C100	KWM*-0100		5560	6510	7520	8620	9810	11100					1.6	2.7	
D3WM-C150	KWKA-0200	6400	8050	9670	11300	13000	14700	16600					2.3	4.1	

R-134a

Unit Model	Compressor	0	5	10	15	20	25	30	35	40	45	0	25	45
DTWH-C150	KWLB-015E	6410	7330	8370	9520	10800	12200	13600	15200	16900	18700	1.8	3.2	4.7

R-404A Low Temp

Unit Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0	-40	-20	0
DJWL-C100	KWJ*-011E	2300	2800	3360	3980	4660	5420	6250	7170	8180	0.9	1.4	2.1
DJWL-C150	KWLA-016E KWLB-015E	3110	4010	4900	5810	6750	7760	8870	10100	11400	1.1	2	3

R-404A Med Temp

Unit Model	Compressor	-5	0	5	10	15	20	25	-5	10	25
DJWM-C100	KWRA-011E	4910	5680	6440	7240	8120	9130	10300	1.5	2	2.7
DJWM-C150	KWG*-010E	5860	6740	7650	8640	9740	11000	12400	1.7	2.3	3.2
DJWM-C200	KWKA-020E	8440	9750	11000	12300	13800	15400	17400	2.5	3.5	4.7

Physical and Electrical Data

water-cooled condensing units

Unit Model Short	BOM	Compressor Electrical	Length	Width	Height	MCA	Max Fuse	Ship Weight
D3WH-C150-CAV	020	KWGB-0150-CAV	24	17	12.88	12.0	20	157
D3WH-C150-TAC	020	KWGA-0150-TAC	24	17	12.88	6.9	15	166
D3WH-C150-TAD	020	KWGA-0150-TAD	24	17	12.88	3.1	15	236
D3WM-C100-CAV	020	KWM2-0100-CAV	17	24	11.57	9.4	15	138
D3WM-C100-TAC	020	KWM1-0100-TAC	17	24	11.57	5.6	15	140
D3WM-C150-TAC	020	KWKA-0200-TAC	24	17	12.88	8.5	15	158
D3WM-C150-TAD	020	KWKA-0200-TAD	24	17	12.88	3.8	15	158
D3WM-C200-TAC	020	KWKA-0200-TAC	24.25	31.5	12.98	8.5	15	237
DJWL-C100-CAV	020	KWJB-010E-CAV	17	24	11.57	8.6	15	142
DJWL-C100-TAC	020	KWJA-011E-TAC	24	17	11.57	5.8	15	143
DJWL-C100-TAD	020	KWJA-011E-TAD	17	24	11.57	2.6	15	163
DJWL-C150-CAV	020	KWLB-015E-CAV	24	17	12.88	12.4	20	137
DJWL-C150-TAC	020	KWLA-016E-TAC	24	17	12.88	8.3	15	152
DJWL-C150-TAD	020	KWLA-016E-TAD	24	17	12.88	4.3	15	161
DJWM-C100-TAD	020	KWRA-011E-TAD	24	17	11.6	2.5	15	143
DJWM-C150-CAV	020	KWGB-010E-CAV	24	17	12.88	9.4	15	158
DJWM-C200-TAC	020	KWKA-020E-TAC	24.25	31.5	12.98	8.5	15	234
DTWH-C150-CAV	020	KWLB-015E-CAV	24	17	12.88	12.4	20	155

Physical and Electrical Data

water-cooled condensing units

Unit Model Short	BOM	Compressor Electrical	Refrigerant Connections		Water Connections		Receiver Capacity (Lbs @ 90% Volume)		
			Liquid	Suction	Inlet (NPT)	Outlet (OD)	R-22	R-134a	R-404A
D3WH-C150-CAV	020	KWGB-0150-CAV	3/8 S	7/8 S	1/2	5/8	12.9		
D3WH-C150-TAC	020	KWGA-0150-TAC	3/8 S	7/8 S	1/2	5/8	12.9		
D3WH-C150-TAD	020	KWGA-0150-TAD	3/8 S	7/8 S	1/2	5/8	12.9		
D3WM-C100-CAV	020	KWM2-0100-CAV	3/8 S	5/8 S	1/2	1/2	7.4		
D3WM-C100-TAC	020	KWM1-0100-TAC	3/8 S	5/8 S	1/2	1/2	7.4		
D3WM-C150-TAC	020	KWKA-0200-TAC	3/8 S	7/8 S	1/2	5/8	12.9		
D3WM-C150-TAD	020	KWKA-0200-TAD	3/8 S	7/8 S	1/2	5/8	12.9		
D3WM-C200-TAC	020	KWKA-0200-TAC	3/8 S	7/8 S	1/2	7/8	12.9		
DJWL-C100-CAV	020	KWJB-010E-CAV	3/8 S	5/8 S	1/2	1/2			6.4
DJWL-C100-TAC	020	KWJA-011E-TAC	3/8 S	5/8 S	1/2	1/2			6.4
DJWL-C100-TAD	020	KWJA-011E-TAD	3/8 S	5/8 S	1/2	1/2			6.4
DJWL-C150-CAV	020	KWLB-015E-CAV	3/8 S	7/8 S	1/2	5/8			11.2
DJWL-C150-TAC	020	KWLA-016E-TAC	3/8 S	7/8 S	1/2	5/8			11.2
DJWL-C150-TAD	020	KWLA-016E-TAD	3/8 S	7/8 S	1/2	5/8			11.2
DJWM-C100-TAD	020	KWRA-011E-TAD	3/8 S	5/8 S	1/2	1/2			6.4
DJWM-C150-CAV	020	KWGB-010E-CAV	3/8 S	7/8 S	1/2	5/8			11.2
DJWM-C200-TAC	020	KWKA-020E-TAC	3/8 S	7/8 S	1/2	7/8			11.2
DTWH-C150-CAV	020	KWLB-015E-CAV	3/8 S	7/8 S	1/2	5/8			13.1

About Emerson

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Copeland™ E-Line

Copelametic™ air-cooled and water cooled condensing units



Product Information

Horsepower: 1.2 - 1 1/2
Temperature Applications: Low/Medium/High
Refrigerants: R-12, R-134a, R-404A, R-22
Installation Applications: A variety of applications including walk-ins



Nomenclature • Semi-Hermetic Condensing Units

Receiver Base	C
Flat Metal Base	E, D
Water Condenser Base	W
Transport Unit	T

Temperature Application	
Description	Code
High Temperature	H
Medium Temperature	M
Low Temperature	L
Extended Medium Temp.	F
Extra Low Temp.	E
High Temperature	B
R22/404A LT & R134a HT	G
R22 HT & R404A MT	J
R404A LT & R134a HT	K
Two Stage	U
Two Stage	T

Compressor Motor Types		
Phase	Description	Code
1	Capacitor Run – Capacitor Start	C
1	Induction Run – Capacitor Start	I
1	Induction Run – Split Phase	S
1	Capacitor Run – Permanent Split Capacitor	P
3	Three Phase	T
3	Wye (star) Delta	E
3	6 Lead Part Winding or Across the Line – except 575V	F

Product Variations
Numbers will be assigned as follows:

- Number –100 is standard compressor used in Copeland™ condensing units.
- Number –200 indicates a STANDARD compressor parts B/M and model no.
- Number –201 and larger will be assigned for all other variations of a given model.
- Number –800 indicates a standard replacement compressor and Component Parts B/M and model no. –240 volt control.
- Number –801 indicates a standard replacement compressor and component parts B/M and model no. –120 volt control.

X X X X - X X X X - X X X - X X X

Refrigerant	
R404A/507	J/4
R134a	T/2
R12	B/7
R22	3/M/L/C
Multiple	F
R22/407C	G
R22	9
R134a/404A/22	N
R134a/404A	P
R404A/22	8


Comp. Motor Rating	
Nominal (HP)	Code
1/2	0050
3/4	0075
1	0100
1-1/2	0150
2	0200
3	0300
4	0400
5	0500
6	0600
7-1/2	0750
9	0900
10	1000
15	1500
20	2000
22	2200
25	2500
27	2700
30	3000
40	4000
50	5000
60	6000
70	7000
80	8000

Compressor Motor Protection	
Type Protection	Code
External Inherent Protection-One Protector, (Line Break) Use with Contactor	A
Internal Inherent Protection-One Protector (Line Break) Use with Contactor	F
Internal Thermal Protectors-Electronic Sensors; and Control Module External Use with Contactor	S

Electrical Codes		
60 Hz.	50 Hz.	Code
115-1	100-1	A
230-1	-	B
208/230-3	200/220-3	C
460-3	-	D
575-3	-	E
-	230-1	G
-	380/420-3	M
208/230-1	200-1	V
-	220-3	W
-	220/240-1	Z

Air Cooled Steel Base	A
Air Cooled Copevap Base	E
Water Cooled Steel Base	W
Custom Base	C
Discus	D

Note: Left position may be a letter indicating a revision change.



Bill of Materials Matrix

BOM	Options															UL		
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	Head Pressure Control Valve	Water Valve	CoreSense	Listed	Recognized
Air Cooled																		
020	X	X		X	X	X				X								X
072	X	X		X	X	X				X	X	X						X
075	X	X		X	X	X				X	X	X		X				X
212	X	X		X	X	X												X*
Water Cooled																		
020	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. BOMs with 4 or 6 as the middle digit are OEM special units.

Copelametic™ air-cooled condensing units

Features	Benefits
Copeland™ Semi-hermetic Compressor	Reliability
	High Energy Efficiency
Modular Components	Replacement Serviceability
Positive Displacement Oil Pump	Application Flexibility
Low Profile	More Cooler Space, Fewer Stockouts, Application Flexibility
Low Re-expansion Volumes	Decrease Energy Costs, Greater Capacity
Lower Operating Speeds	Reduces Operating Component Stress Low Sound Lower Maintenance Costs

Resources and Support

EmersonClimate.com

- Online Product Information and Technical Data
 - Application Engineering Bulletins
 - Instruction Sheets
 - Marketing Brochures
- Where to Buy

Application Engineering Bulletins

- 4-1094 Identification of Port Locations in Heads of Copelametic™ Compressors
- 4-1135 Cooling Requirement for Copelametic Compressors
- 4-1166 Copeland™ Oil Pumps
- 4-1273 Factors to Consider in Converting Compressor Rated Capacity to Actual Capacity
- 4-1295 HFC-134A Refrigerant Guidelines
- 5-1174 Water flow requirement and water pressure drop for Copeland water cooled condensing units
- 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

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

R-12 Low Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5
90° Ambient									
EBAL-A050	KAG2-0050	1090	1340	1610	1910	2210	2530	2850	3160
EBAL-A075	KAA2-0075	1430	1780	2120	2480	2860	3290	3790	
100° Ambient									
EBAL-A050	KAG2-0050	890	1140	1410	1690	1990	2280	2570	2860
EBAL-A075	KAA2-0075	1260	1590	1920	2250	2620	3040	3520	
110° Ambient									
EBAL-A050	KAG2-0050	690	940	1210	1480	1760	2040		
EBAL-A075	KAA2-0075	1090	1410	1710	2030	2380	2770	3240	

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

R-12 Med/High Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45	50	55
90° Ambient														
E7AB-A050	KAN*-0050		2060	2270	2530	2830	3170	3530	3920	4330	4750	5180	5610	6040
EBAM-A050	KAE2-0050	2410	2760	3120	3480	3880	4290	4740						
E7AB-A100	KAJ1-0100		4380	4860	5410	6030	6690	7400	8140	8910	9700	10500		
EBAM-A100	KA**-0100	4520	5080	5660	6260	6910	7620	8400						
100° Ambient														
E7AB-A050	KAN*-0050		1920	2090	2300	2570	2870	3200	3560	3940	4330	4730	5130	5540
EBAM-A050	KAE2-0050	2200	2530	2870	3220	3580	3970	4400						
E7AB-A100	KAJ1-0100		4020	4460	4970	5530	6150	6810	7510	8240	8990	9740		
EBAM-A100	KA**-0100	4100	4640	5200	5780	6410	7100							
110° Ambient														
E7AB-A050	KAN*-0050		1730	1860	2040	2270	2540	2840	3160	3510	3870			
EBAM-A050	KAE2-0050	1990	2310	2630	2950	3300	3660	4060						
E7AB-A100	KAJ1-0100		3660	4050	4510	5030	5610	6220	6880					
EBAM-A100	KA**-0100	3710	4240											

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

R-22 Low Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
90° Ambient										
E8AL-A050	KANB-005E	730	930	1160	1420	1710	2030	2370	2720	3080
ENAG-A050	KANB-005E	730	930	1160	1420	1710	2030	2370	2720	3080
ELAL-A075	KAMB-0075	1670	2000	2370	2790	3250	3740	4260	4820	5380
ENAG-A075	KAMB-007E	1670	2000	2370	2790	3250	3740	4260	4820	5380
E8AL-A075	KAM*-007E	1870	2300	2760	3260	3810	4390	5010	5670	6360
ENAG-A100	KAJ*-01*E	2110	2500	2950	3460	4010	4610	5260	5940	6640
ELAL-A100	KAJB-0100	2200	2650	3130	3660	4220	4830	5500	6210	6980
ELAL-A152	KAKB-0200	2630	3140	3680	4260	4900	5600	6380	7240	8200
100° Ambient										
E8AL-A050	KANB-005E	560	750	980	1230	1500	1800	2110	2440	2770
ENAG-A050	KANB-005E	560	750	980	1230	1500	1800	2110	2440	2770
ELAL-A075	KAMB-0075	1500	1810	2160	2550	2980	3430	3910	4410	4920
ENAG-A075	KAMB-007E	1500	1810	2160	2550	2980	3430	3910	4410	4920
E8AL-A075	KAM*-007E	1580	1990	2430	2910	3420	3960	4550	5170	5810
ENAG-A100	KAJ*-01*E	1860	2220	2640	3120	3630	4190	4790	5420	6070
ELAL-A100	KAJB-0100	1970	2390	2850	3340	3870	4440	5050	5720	6420
ELAL-A152	KAKB-0200	2340	2820	3320	3860	4450	5100	5830	6640	7530
110° Ambient										
E8AL-A050	KANB-005E	390	580	800	1040	1310	1580	1870		
ENAG-A050	KANB-005E	390	580	800	1040	1310	1580	1870		
ELAL-A075	KAMB-0075	1300	1590	1920	2280	2670	3090	3520		
ENAG-A075	KAMB-007E	1300	1590	1920	2280	2670	3090	3520		
E8AL-A075	KAM*-007E	1290	1680	2110	2560	3040	3550			
ENAG-A100	KAJ*-01*E	1610	1950	2340	2780	3260	3780	4330		
ELAL-A100	KAJB-0100	1720	2130	2550	3010	3500	4020	4590		
ELAL-A152	KAKB-0200	2040	2490	2950	3460	4000	4610	5280	6040	6880

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

R-22 Med/High Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45	50	55
90° Ambient														
E8AJ-A075	KAN*-007E		3380	3850	4340	4880	5450	6060	6710	7380	8090	8820	9580	10400
E3AH-A075	KAN*-0075		3600	4090	4620	5190	5790	6430	7110	7820	8560	9320		
E3AM-A075	KAE*-0075	3580	4060	4570	5090	5670	6290	6980						
E8AJ-A100	KAR*-01*E		4820	5440	6110	6830	7590	8400	9240	10100	11000	11900	12800	13800
E3AH-A100	KAR*-0100		5030	5670	6370	7120	7910	8750	9620	10500	11400	12400		
E3AM-A100	KAM1-0100		5400	6170	6970	7800	8680	9600						
E3AM-A101	KAM*-0100		5780	6620	7510	8450	9440	10500						
E3AH-A151	KAGB-0150		6310	7060	7910	8880	9960	11100	12400	13700	15100	16500		
100° Ambient														
E8AJ-A075	KAN*-007E		3080	3520	3980	4480	5010	5570	6170	6790	7450	8120	8820	
E3AH-A075	KAN*-0075		3280	3740	4230	4760	5320	5910	6540	7200	7880	8590		
E3AM-A075	KAE*-0075	3280	3720	4180	4670	5190	5780	6420						
E8AJ-A100	KAR*-01*E		4380	4970	5600	6270	6990	7750	8540	9350	10200			
E3AH-A100	KAR*-0100		4580	5180	5840	6540	7290	8070	8890	9740	10600			
E3AM-A100	KAM1-0100		4920	5640	6380	7160	7990	8870						
E3AM-A101	KAM*-0100		5270	6050	6870	7740	8670	9650						
E3AH-A151	KAGB-0150		5790	6460	7250	8160	9170	10300	11500	12800	14100	15500		
110° Ambient														
E8AJ-A075	KAN*-007E		2780	3180	3610	4070	4560	5080	5630	6210				
E3AH-A075	KAN*-0075		2950	3380	3830	4320	4840	5390	5970					
E3AM-A075	KAE*-0075	2970	3360	3780	4220	4710	5240	5850						
E8AJ-A100	KAR*-01*E		3950	4510	5100	5740	6410	7120						
E3AH-A100	KAR*-0100		4130	4700	5320	5980	6680	7420						
E3AM-A100	KAM1-0100		4480	5150	5840	6590	7370							
E3AM-A101	KAM*-0100		4780	5500	6270	7080	7950	8880						
E3AH-A151	KAGB-0150		5320	5930	6660	7510	8470	9520	10700	11900				

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

R-134a

Copeland air-cooled condensing units

Unit Model	Compressor	0	5	10	15	20	25	30	35	40	45
90° Ambient											
ENAG-A050	KANB-005E	1900	2130	2380	2650	2930	3240	3560	3900	4250	4620
ETAH-A075	KAMB-007E	3630	4030	4480	4980	5530	6130	6750	7410	8100	8800
EPAK-A150	KAL*-01*E	6290	7100	7980	8940	9970	11060	12210	13410	14650	15950
100° Ambient											
ENAG-A050	KANB-005E	1740	1960	2190	2430	2700	2980	3280	3600	3930	4270
ETAH-A075	KAMB-007E	3430	3760	4150	4600	5090	5620	6200	6800	7450	8110
EPAK-A150	KAL*-01*E	5850	6600	7420	8310	9270	10290	11360	12480	13640	14850
110° Ambient											
ENAG-A050	KANB-005E	1580	1780	1990	2220	2460	2720	2990	3280	3590	
ETAH-A075	KAMB-007E	3170	3440	3770	4160	4590	5070	5600	6160	6750	
EPAK-A150	KAL*-01*E	5390	6080	6830	7650	8530	9470	10460	11490		

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

R-404A Low Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
90° Ambient										
E8AL-A050	KANB-005E	880	1100	1360	1650	1970	2300	2660	3030	3370
EJAL-A050	KAN*-00*E	880	1100	1360	1650	1970	2300	2660	3030	3370
ENAG-A050	KANB-005E	880	1100	1360	1650	1970	2300	2660	3030	3370
E8AL-A075	KAM*-007E	1920	2160	2490	2900	3370	3880	4430	4990	5510
EJAL-A075	KAM*-007E	1920	2160	2490	2900	3370	3880	4430	4990	5510
ENAG-A075	KAMB-007E	1920	2160	2490	2900	3370	3880	4430	4990	5510
EJAL-A100	KAJ*-01*E	2350	2820	3310	3840	4400	4990	5630	6300	6980
ENAG-A100	KAJ*-01*E	2430	2880	3370	3900	4470	5060	5700	6370	7060
EJAL-A103	KAKB-011E	2780	3470	4070	4630	5180	5750	6410	7160	8030
EJAL-A102	KALB-015E	3430	4060	4730	5430	6170	6930	7720	8530	9340
EJAL-A150	KALA-016E	3390	4190	4980	5770	6580	7410	8280	9200	10100
EPAK-A150	KAL*-01*E	3610	4290	5020	5800	6630	7510	8450	9430	10400
EPAK-A150	KALB-015E	3610	4290	5020	5800	6630	7510	8450	9430	10400
EJAE-0175	KAT*-015E	4400	5150	5960	6820	7730				
100° Ambient										
E8AL-A050	KANB-005E	670	880	1120	1390	1680	1980	2300	2630	2920
EJAL-A050	KAN*-00*E	670	880	1120	1390	1680	1980	2300	2630	2920
ENAG-A050	KANB-005E	670	880	1120	1390	1680	1980	2300	2630	2920
E8AL-A075	KAM*-007E	1620	1850	2160	2550	2980	3460	3960	4460	4930
EJAL-A075	KAM*-007E	1620	1850	2160	2550	2980	3460	3960	4460	4930
ENAG-A075	KAMB-007E	1620	1850	2160	2550	2980	3460	3960	4460	4930
EJAL-A100	KAJ*-01*E	1990	2430	2890	3380	3890	4420	4990	5590	6200
ENAG-A100	KAJ*-01*E	2070	2480	2920	3400	3920	4460	5040	5660	6280
EJAL-A103	KAKB-011E	2340	2990	3540	4050	4540	5050	5630	6320	7120
EJAL-A102	KALB-015E	2910	3510	4140	4800	5480	6170	6890	7620	
EJAL-A150	KALA-016E	2730	3530	4300	5050	5810	6570	7370	8200	9000
EPAK-A150	KAL*-01*E	3080	3730	4410	5150	5920	6730	7590	8490	9360
EPAK-A150	KALB-015E	3080	3730	4410	5150	5920	6730	7590	8490	9360
EJAE-0175	KAT*-015E	3800	4520	5280	6060	6860				
110° Ambient										
E8AL-A050	KANB-005E	450	640	860	1100	1360	1630	1900	2180	
EJAL-A050	KAN*-00*E	450	640	860	1100	1360	1630	1900	2180	
ENAG-A050	KANB-005E	450	640	860	1100	1360	1630	1900	2180	
E8AL-A075	KAM*-007E	1250	1470	1760	2110	2510	2940	3390	3850	
EJAL-A075	KAM*-007E	1250	1470	1760	2110	2510	2940	3390	3850	
ENAG-A075	KAMB-007E	1250	1470	1760	2110	2510	2940	3390	3850	
EJAL-A100	KAJ*-01*E	1610	2020	2450	2890	3350	3830	4330	4870	
ENAG-A100	KAJ*-01*E	1720	2090	2480	2910	3370	3850	4370		
EJAL-A103	KAKB-011E	1910	2520	3020	3460	3880				
EJAL-A150	KALA-016E	1980	2780	3540	4270	4990	5700	6430		
EPAK-A150	KAL*-01*E	2470	3090	3740	4420	5130	5870	6660		
EPAK-A150	KALB-015E	2470	3090	3740	4420	5130	5870	6660		
EJAE-0175	KAT*-015E	3230	3940	4640	5340	6030				
EJAL-A102	KALB-015E	2310	2880	3470	4080					

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

R-404A Med Temp

Copeland air-cooled condensing units

Unit Model	Compressor	-5	0	5	10	15	20	25
90° Ambient								
E8AJ-A075	KAN*-007E	3090	3520	4030	4550	5100	5670	6240
EJAM-A075	KAN*-007E	3090	3520	4030	4550	5100	5670	6240
E8AJ-A100	KAR*-01*E	4810	5350	5990	6650	7320	7980	8600
EJAM-A100	KARA-010E	4850	5400	6060	6730	7420	8090	8740
100° Ambient								
E8AJ-A075	KAN*-007E	2690	3090	3560	4030	4530	5040	5550
EJAM-A075	KAN*-007E	2690	3090	3560	4030	4530	5040	5550
E8AJ-A100	KAR*-01*E	4310	4790	5370	5970	6590	7190	7760
EJAM-A100	KARA-010E	4350	4830	5430	6050	6680	7300	7890
110° Ambient								
E8AJ-A075	KAN*-007E	2300	2660	3090	3520	3960	4410	4860
EJAM-A075	KAN*-007E	2300	2660	3090	3520	3960	4410	4860
E8AJ-A100	KAR*-01*E	3780	4190	4720	5260	5820	6360	6880
EJAM-A100	KARA-010E	3820	4240	4780	5330	5910	6470	7000

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

Physical and Electrical Data

Copelametic™ air-cooled condensing units

MODEL	BOM	Compressor Electrical	Length	Width	Height	Liquid Connection	Suction Connection
E3AH-A075-CAV	020	KAN2-0075-CAV	24	17.96	13.2	3/8 S	5/8 S
E3AH-A100-CAV	020	KAR2-0100-CAV	24	17.9	13.2	3/8 S	5/8 S
E3AH-A100-CAV	212	KAR2-0100-CAV	24	17.9	13.2	3/8 S	5/8 S
E3AH-A100-TAC	020	KAR1-0100-TAC	24	17.92	13.18	3/8 S	5/8 S
E3AH-A151-CAV	020	KAGB-0150-CAV	26.4	18.65	16.1	3/8 S	7/8 S
E3AH-A151-TAC	020	KAGA-0150-TAC	26	18.61	16.1	3/8 S	7/8 S
E3AM-A075-CAA	020	KAE2-0075-CAA	24	17.96	13.2	3/8 S	5/8 S
E3AM-A075-CAV	020	KAE2-0075-CAV	24	17.96	13.2	3/8 S	5/8 S
E3AM-A075-TAC	020	KAE1-0075-TAC	24	18.1	13.2	3/8 S	5/8 S
E3AM-A100-CAV	020	KAM2-0100-CAV	24	17.96	13.2	3/8 S	5/8 S
E3AM-A100-TAC	020	KAM1-0100-TAC	24	17.96	13.2	3/8 S	5/8 S
E3AM-A100-TAD	020	KAM1-0100-TAD	24	17.9	13.2	3/8 S	5/8 S
E3AM-A101-CAV	020	KAM2-0100-CAV	26.4	18.65	16.1	3/8 S	7/8 S
E3AM-A101-TAC	020	KAM1-0100-TAC	26	18.61	16.1	3/8 S	7/8 S
E3AM-A101-TAD	020	KAM1-0100-TAD	26.4	20.3	16.2	3/8 S	7/8 S
E7AB-A050-CAV	020	KAN2-0050-CAV	19.5	16.3	12.1	1/4 S	1/2 S
E7AB-A050-TAC	020	KAN1-0050-TAC	19.5	16.3	12.1	1/4 S	1/2 S
E7AB-A100-CAV	020	KAJ3-0100-CAV	24	17.9	13.2	3/8 S	5/8 S
E7AB-A100-CAV	212	KAJ3-0100-CAV	24	17.9	13.2	3/8 S	5/8 S
E7AB-A100-TAD	020	KAJ1-0100-TAD	24	17.9	13.2	3/8 S	5/8 S
E8AJ-A075-CAV	020	KANB-007E-CAV	24	17.96	13.2	3/8 S	5/8 S
E8AJ-A075-TAC	020	KANA-007E-TAC	24	18.1	13.2	3/8 S	5/8 S
E8AJ-A100-CAV	020	KARB-010E-CAV	24	17.9	13.2	3/8 S	5/8 S
E8AJ-A100-TAC	020	KARA-010E-TAC	24	17.96	13.2	3/8 S	5/8 S
E8AJ-A100-TAD	020	KARA-011E-TAD	24	20	15.5	3/8 S	5/8 S
E8AL-A050-CAV	020	KANB-005E-CAV	19.5	16.3	12.1	1/4 S	1/2 S
E8AL-A075-CAA	020	KAMB-007E-CAA	24	17.96	13.2	3/8 S	5/8 S
E8AL-A075-TAC	020	KAMA-007E-TAC	24	18.1	13.2	3/8 S	5/8 S
EBAL-A050-CAV	020	KAG2-0050-CAV	19.5	16.3	12.1	1/4 S	1/2 S
EBAL-A075-IAA	020	KAA2-0075-IAA	24	17.9	13.2	3/8 S	5/8 S
EBAL-A075-TAC	020	KAA1-0075-TAC	24	18.1	13.2	3/8 S	5/8 S
EBAM-A050-IAA	020	KAE2-0050-IAA	19.5	16.3	12.1	1/4 S	1/2 S
EBAM-A100-TAC	020	KAK1-0100-TAC	24	17.96	13.2	3/8 S	5/8 S
EBAM-A100-TAD	020	KAK1-0100-TAD	24	17.9	13.2	3/8 S	5/8 S
EJAE-0175-CAV	020	KATB-015E-CAV	26	18.3	16.2	3/8 S	7/8 S
EJAE-0175-TAC	020	KATA-015E-TAC	26.1	18.6	16.1	3/8 S	7/8 S
EJAL-A050-CAV	020	KANB-005E-CAV	19.5	16.3	12.1	1/4 S	1/2 S
EJAL-A050-TAC	020	KANA-006E-TAC	19.5	16.3	12.1	1/4 S	1/2 S

Physical and Electrical Data

Copelametic™ air-cooled condensing units

MODEL	Receiver Capacity* (Lbs @ 90% Volume)				MCA	Max Fuse	Ship Weight
	R-12	R-22	R-134a	R-404A			
E3AH-A075-CAV		7.3			8.8	15	160
E3AH-A100-CAV		7.3			10.4	15	164
E3AH-A100-CAV		7.3			10.4	15	164
E3AH-A100-TAC		7.3			6.5	15	147
E3AH-A151-CAV		12.9			14.9	20	170
E3AH-A151-TAC		12.9			9.8	15	164
E3AM-A075-CAA		7.3			15.6	20	135
E3AM-A075-CAV		7.3			7.9	15	138
E3AM-A075-TAC		7.3			5.4	15	85
E3AM-A100-CAV		7.3			10.5	15	162
E3AM-A100-TAC		7.3			6.8	15	140
E3AM-A100-TAD		7.3			3.5	15	182
E3AM-A101-CAV		12.9			12.2	15	162
E3AM-A101-TAC		12.9			8.5	15	162
E3AM-A101-TAD		12.9			4.4	15	169
E7AB-A050-CAV	3				5.2	15	124
E7AB-A050-TAC	3				3.3	15	124
E7AB-A100-CAV	6.9				9.8	15	164
E7AB-A100-CAV	6.9				9.8	15	164
E7AB-A100-TAD	6.9				3.9	15	181
E8AJ-A075-CAV		7.3		6.3	7.9	15	138
E8AJ-A075-TAC		7.3		6.3	4.9	15	139
E8AJ-A100-CAV		7.3		6.4	10.4	15	155
E8AJ-A100-TAC		7.3		6.4	6.5	15	138
E8AJ-A100-TAD		7.3		6.4	3.2	15	156
E8AL-A050-CAV		7.3		6.4	5.1	15	121
E8AL-A075-CAA		7.3		6.3	15.6	20	140
E8AL-A075-TAC		7.3		6.3	5.2	15	135
EBAL-A050-CAV	3				5.2	15	113
EBAL-A075-IAA	8.1				14.8	20	133
EBAL-A075-TAC	8.1				4.4	15	160
EBAM-A050-IAA	3				10.9	15	112
EBAM-A100-TAC	6.9				5.3	15	162
EBAM-A100-TAD	6.9				3.6	15	154
EJAE-0175-CAV				6.4	14.9	20	162
EJAE-0175-TAC				6.4	9.2	15	163
EJAL-A050-CAV				2.4	5.2	15	126
EJAL-A050-TAC				2.4	3.5	15	114

Physical and Electrical Data

Copelametic™ air-cooled condensing units

MODEL	BOM	Compressor Electrical	Length	Width	Height	Liquid Connection	Suction Connection
EJAL-A075-CAA	020	KAMB-007E-CAA	24	17.96	13.2	3/8 S	5/8 S
EJAL-A075-CAV	020	KAMB-007E-CAV	24	17.96	13.2	3/8 S	5/8 S
EJAL-A075-CAV	072	KAMB-007E-CAV	24	17.72	13.25	3/8 S	1/2 S
EJAL-A075-TAC	020	KAMA-007E-TAC	24	18.1	13.2	3/8 S	5/8 S
EJAL-A100-CAV	020	KAJB-010E-CAV	24	17.9	13.2	3/8 S	5/8 S
EJAL-A100-CAV	072	KAJB-010E-CAV	24	17.95	13.19	3/8 S	5/8 S
EJAL-A100-CAV	075	KAJB-010E-CAV	24	18.81	13.19	3/8 S	5/8 S
EJAL-A100-TAD	020	KAJA-011E-TAD	24	17.9	13.2	3/8 S	5/8 S
EJAL-A102-CAV	020	KALB-015E-CAV	24	17.9	13.2	3/8 S	5/8 S
EJAL-A103-CAV	020	KAKB-011E-CAV	24	17.9	13.2	3/8 S	5/8 S
EJAL-A150-TAD	020	KALA-016E-TAD	26.4	20.3	16.2	3/8 S	7/8 S
EJAM-A075-CAV	020	KANB-007E-CAV	24	17.96	13.2	3/8 S	5/8 S
EJAM-A075-TAC	020	KANA-007E-TAC	24	18.1	13.2	3/8 S	5/8 S
EJAM-A100-TAC	020	KARA-010E-TAC	24	17.96	13.2	3/8 S	5/8 S
ELAL-A075-CAV	020	KAMB-0075-CAV	24	17.96	13.2	3/8 S	5/8 S
ELAL-A100-CAV	020	KAJB-0100-CAV	24	17.9	13.2	3/8 S	5/8 S
ELAL-A152-CAV	020	KAKB-0200-CAV	26.12	18.33	16.15	3/8 S	7/8 S
ENAG-A050-IAA	020	KANB-005E-IAA	19.5	16.3	12.1	1/4 S	1/2 S
ENAG-A075-CAV	020	KAMB-007E-CAV	24	17.96	13.2	3/8 S	5/8 S
ENAG-A100-CAV	020	KAJB-010E-CAV	24	17.9	13.2	3/8 S	5/8 S
ENAG-A100-TAC	020	KAJA-011E-TAC	24	17.96	13.2	3/8 S	5/8 S
EPAK-A150-CAV	020	KALB-015E-CAV	26.4	18.65	16.1	3/8 S	7/8 S
EPAK-A150-TAC	020	KALA-016E-TAC	26	18.61	16.1	3/8 S	7/8 S
ETAH-A075-CAV	020	KAMB-007E-CAV	24	17.96	13.2	3/8 S	5/8 S
ETAH-A075-IAA	212	KAMB-007E-IAA	24	17.9	13.2	3/8 S	5/8 S

Physical and Electrical Data

Copelametic™ air-cooled condensing units

MODEL	Receiver Capacity* (Lbs @ 90% Volume)				MCA	Max Fuse	Ship Weight
	R-12	R-22	R-134a	R-404A			
EJAL-A075-CAA				6.3	15.6	20	142
EJAL-A075-CAV				6.3	8.2	15	140
EJAL-A075-CAV				6.3	8.2	15	143
EJAL-A075-TAC				6.3	5.2	15	134
EJAL-A100-CAV				6.4	9.8	15	145
EJAL-A100-CAV				6.4	9.8	15	148
EJAL-A100-CAV				6.4	9.8	15	148
EJAL-A100-TAD				6.4	3.4	15	184
EJAL-A102-CAV				6.4	13.5	20	146
EJAL-A103-CAV				6.4	11.0	15	125
EJAL-A150-TAD				11.2	5.9	15	167
EJAM-A075-CAV				6.3	7.9	15	142
EJAM-A075-TAC				6.3	4.9	15	132
EJAM-A100-TAC				6.4	6.5	15	140
ELAL-A075-CAV		7.3			8.2	15	160
ELAL-A100-CAV		7.3			9.8	15	164
ELAL-A152-CAV		7.3			16.2	20	180
ENAG-A050-IAA		2.7	2.8	2.4	10.6	15	130
ENAG-A075-CAV		7.3	7.4	6.3	8.2	15	135
ENAG-A100-CAV		7.3	7.4	6.4	10.6	15	141
ENAG-A100-TAC		7.3	7.4	6.4	6.9	15	141
EPAK-A150-CAV			13.1	11.2	15.3	20	175
EPAK-A150-TAC			13.1	11.2	11.2	15	186
ETAH-A075-CAV			7.4		8.2	15	140
ETAH-A075-IAA			7.4		14.6	20	135

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, 5°F subcooling

R-22

Unit Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45	0	25	45
E3WH-C075	KWN2-0075		3690	4260	4900	5610	6380	7230	8160	9170	10300	11400	1.1	1.8	2.7
E3WM-C075	KWE*-0075	3680	4260	4880	5550	6290	7110	8040					1.3	2	

R-404A

Unit Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	-40	-20	0	15	25	
EJWM-C075	KWN*-007E									3140	3670	4270	4940	5660	6450	7280			1.1	1.5	1.9
EJWL-C050	KWN*-00*E	760	1000	1290	1620	1990	2400	2860	3360	3890						0.3	0.6	1			
EJWL-C075	KWM*-007E	1450	1820	2240	2720	3250	3830	4460	5130	5860						0.5	0.9	1.5			

Physical and Electrical Data

Copelametic™ water-cooled condensing units

MODEL	BOM	Compressor Electrical	Length	Width	Height	Refrigerant Connections	
						Liquid	Suction
E3WH-C075-CAV	020	KWN2-0075-CAV	24	17.92	11.57	3/8 S	5/8 S
E3WM-C075-CAV	020	KWE2-0075-CAV	24	17.92	11.57	3/8 S	5/8 S
E3WM-C075-TAC	020	KWE1-0075-TAC	24	17.92	11.57	3/8 S	5/8 S
EJWL-C050-CAV	020	KWNB-005E-CAV	24	17.08	11.57	3/8 S	1/2 S
EJWL-C050-IAA	020	KWNB-005E-IAA	24	17	11.57	3/8 S	1/2 S
EJWL-C050-TAC	020	KWNA-006E-TAC	24	17	11.57	3/8 S	1/2 S
EJWL-C075-CAV	020	KWMB-007E-CAV	24	17.92	11.57	3/8 S	5/8 S
EJWL-C075-TAC	020	KWMA-007E-TAC	24	17.92	11.57	3/8 S	5/8 S
EJWM-C075-CAV	020	KWNB-007E-CAV	24	17.92	11.57	3/8 S	5/8 S
EJWM-C075-TAC	020	KWNA-007E-TAC	24	17.92	11.57	3/8 S	5/8 S
ETWH-C050-IAA	020	KWNB-005E-IAA	24	17	11.57	3/8 S	1/2 S

Physical and Electrical Data

Copelametic™ water-cooled condensing units

MODEL	Water Connections		Receiver Capacity* (Lbs @ 90% Volume)				MCA	Max Fuse	Ship Weight
	In (MPT)	Out (OD)	R-12	R-22	R-134a	R-404A			
E3WH-C075-CAV	3/8	1/2		7.3			7.6	15	143
E3WM-C075-CAV	3/8	1/2		7.3			6.8	15	134
E3WM-C075-TAC	3/8	1/2		7.3			4.3	15	134
EJWL-C050-CAV	3/8	1/2				4.1	4.5	15	135
EJWL-C050-IAA	3/8	1/2				4.1	10.0	15	151
EJWL-C050-TAC	3/8	1/2				4.1	2.8	15	134
EJWL-C075-CAV	3/8	1/2				6.4	7.0	15	136
EJWL-C075-TAC	3/8	1/2				6.4	4.0	15	137
EJWM-C075-CAV	3/8	1/2				6.4	6.8	15	145
EJWM-C075-TAC	3/8	1/2				6.4	3.8	15	136
ETWH-C050-IAA	3/8	1/2		4.8			10.0	15	130

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Copeland™ F-Line

Air-cooled and water-cooled condensing units



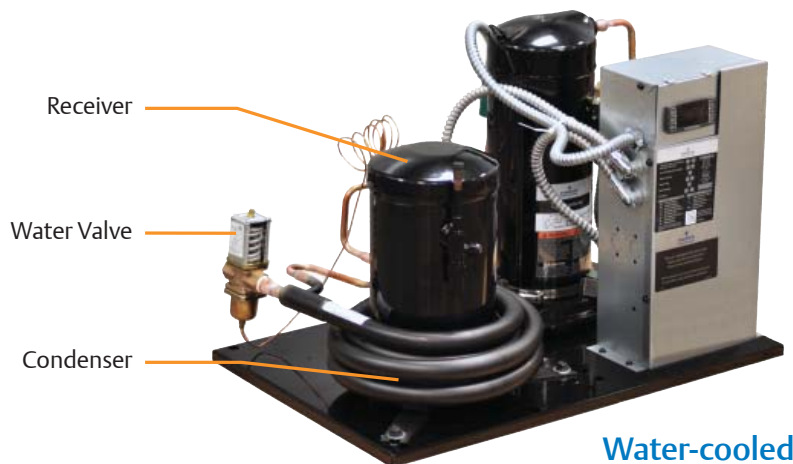
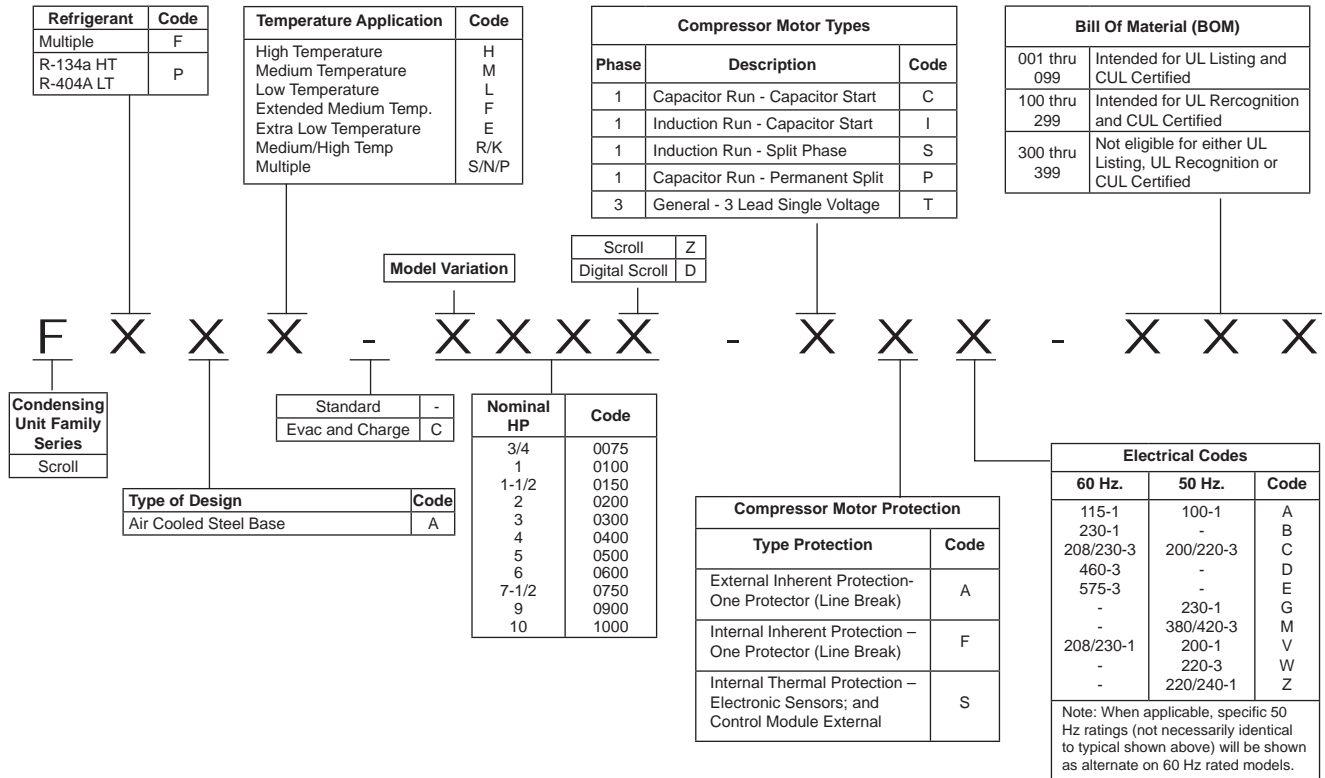
Product Information

Horsepower: 3/4 - 10

Refrigerants: R-22, R-134a, R-404A, R-407A,
R-407C, R-448A, R-449A



Nomenclature • Welded Condensing Units



Bill of Materials Matrix

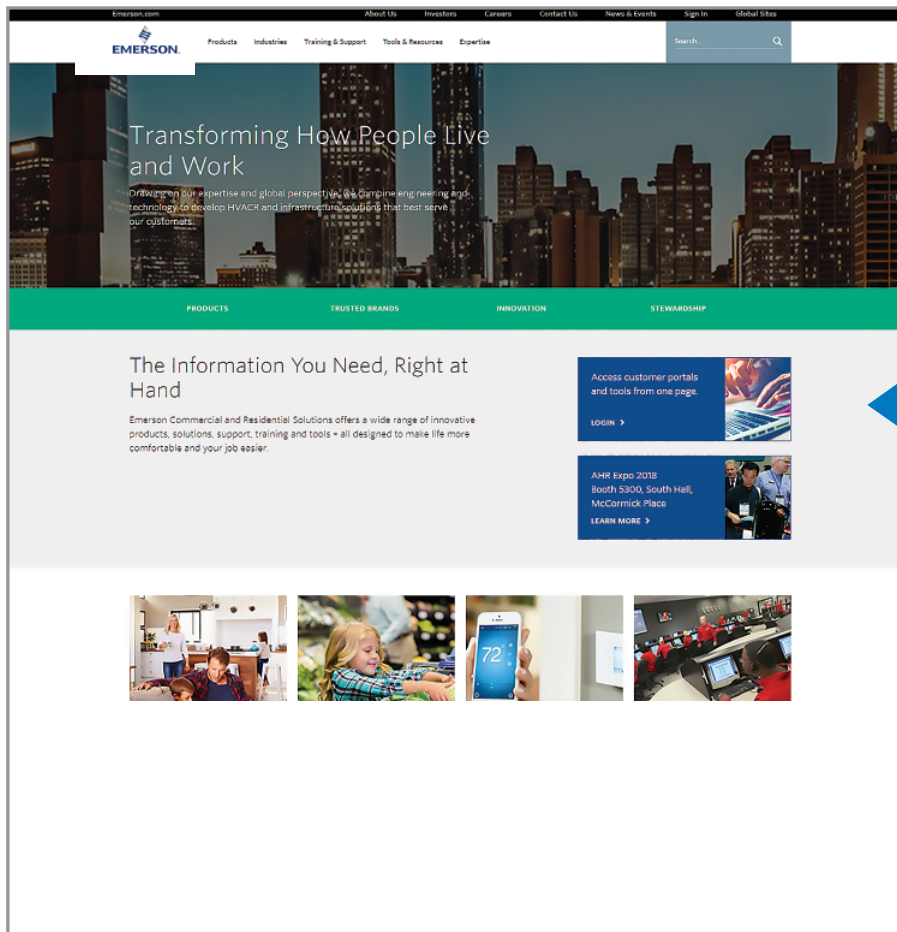
BOM	Options																	UL	
Sweat	Receiver W/ Valve	Suction Valve	Liquid Base Valve	Fan Guard	End Covers	Conduit	Power Cord	Accumulator	Fan Cycling	Pressure Controls	Filter Drier	Moisture Indicator	Solenoid Valve	Crankcase Heater	Head Pressure Control Valve	Water Valve	CoreSense	Listed	Recognized
Air Cooled																			
017		X	X	X	X	X				X								X	
020	X	X		X	X	X				X								X	
070	X	X		X	X	X		X		X	X	X						X	
071	X	X		X	X	X		X	X	X	X	X		X				X	
072	X	X		X	X	X				X	X	X						X	
075	X	X		X	X	X		X		X	X	X		X	X			X	
078	X	X		X	X	X					X	X						X	
212	X	X		X	X	X													X
Water Cooled																			
020	X	X				X				X				X		X		X	

Application Engineering Bulletins

- 4-1273 Factors to Consider in Converting Compressor Rated Capacity to Actual Capacity
- 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
- 4-1317 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
- 4-1387 Application Guidelines for ZS**KAE Copeland Scroll™ Refrigeration Compressors 1.3-4.5 HP
- 4-1425 Application Guidelines for Low Temperature ZF**KAE 1-2.5HP Copeland Scroll™ Refrigeration Compressors
- 4-1426 Application Guidelines for ZB**KAE Copeland Scroll™ Refrigeration Compressors
- 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

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

Features	Benefits
<p>Copeland Scroll Compressor</p>	<p>Reliability</p> <p>High Energy Efficiency</p> <p>Low Sound & Vibration</p>
<p>Advance Diagnostics and Protection Features</p>	<p>Faster Trouble Shooting</p> <p>Warranty Reduction</p>
<p>Factory Installed EK Filter Drier & HMI Moisture Indicator</p>	<p>Less Leaks, Reduce Callbacks, Lower Installation Cost, Increase Equipment Reliability, Lower Warranty</p>
<p>Aluminum/Copper Condenser Design</p>	<p>Durability</p>
<p>Multi Refrigerant Approval for High/Med Models</p>	<p>Application Flexibility</p> <p>Inventory Consolidation</p>



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AE Bulletins



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Emerson X-Check™



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Emerson e-Saver™



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WRMobile



Vilter™ Docs



Copeland™ Mobile



Copeland X-Ref™



Emerson PTPro™



ProAct Alerts

More Soon – We’re listening to you!

Base Model	MT Indoor AWEF							MT Outdoor AWEF						
	R-134a	R-22	R-404A	R-407A	R-407C	R-448A	R-449A	R-134a	R-22	R-404A	R-407A	R-407C	R-448A	R-449A
FFAM-008Z		N/A							N/A					
FFAM-010Z		N/A							N/A					
FFAM-012Z		N/A							N/A					
FFAM-071Z														
FFAM-081Z														
FFAM-091Z														
FFAM-101Z														
FFAP-015Z	6.40	6.68	6.04	6.34	5.80	5.68	5.68	8.45	9.01	8.83	9.02	8.62	8.23	8.24
FFAP-017Z	6.52	6.48	6.00	6.20	5.86	5.81	5.76	8.72	8.96	8.91	9.00	8.77	8.49	8.49
FFAP-018Z														
FFAP-020Z	5.75	6.07	5.72	5.74	5.39	5.31	5.31	7.59	8.23	8.25	8.16	7.91	7.63	7.63
FFAP-022Z	6.17	6.18	5.92	5.89	5.68	5.57	5.57	8.18	8.47	8.69	8.55	8.40	8.08	8.08
FFAP-030Z	6.65	6.64	6.47	6.47	6.07	5.96	5.98	8.69	8.97	9.32	9.14	8.92	8.54	8.54
FFAP-032Z	7.11	6.93	6.18	6.35	6.42	6.05	6.05	9.54	9.63	9.31	9.34	9.59	9.06	9.05
FFAP-035Z	7.14	6.87	6.03	6.21	6.40	5.92	5.93	9.71	9.68	9.21	9.33	9.63	8.87	8.87
FFAP-040Z	7.24	7.54	6.82	6.90	6.84	6.44	6.44	9.19	9.74	9.48	9.52	9.73	9.07	9.06
FFAP-042Z	7.27	7.37	6.74	6.66	6.76	6.67	6.66	9.40	9.77	9.61	9.31	9.76	9.52	9.52
FFAP-050Z	6.92		5.94	6.25	6.27			8.03		8.04	8.27	8.35		
FFAP-060Z	7.02	6.60	6.09	6.37	6.30	6.21	6.20	8.90	8.65	8.51	8.69	8.57	8.65	8.64
FPAK-010Z								N/A	N/A	N/A	N/A	N/A	N/A	N/A
FPAK-012Z								N/A	N/A	N/A	N/A	N/A	N/A	N/A
FPAK-013Z								N/A	N/A	N/A	N/A	N/A	N/A	N/A
FPAK-015Z								N/A	N/A	N/A	N/A	N/A	N/A	N/A
FPAK-020Z								N/A	N/A	N/A	N/A	N/A	N/A	N/A
FPAK-039Z								N/A	N/A	N/A	N/A	N/A	N/A	N/A

This refrigeration system is designed and certified for use in walk-in cooler applications.
Not all data available at time of printing. See Emerson.com/OPI for updated information.

Physical and Electrical Data

Copeland Scroll air-cooled condensing units

Model	Compressor	Voltage	Dimensions			Refrigerant Connections		Receiver Capacity (Lbs @ 90% Volume)						MCA	Max Fuse	Ship Weight
			L	W	H	Liquid	Suction	134a	22	404A	407A	407C	448A 449A			
FFAL-010Z-CFV-072	ZF03KAE-PFV	208/230	24.1	19.0	17.7	3/8				4.9			5.1	9	15	0
FFAL-010Z-CFV-075	ZF03KAE-PFV	208/230	24.1	19.0	17.7	3/8								9	15	0
FFAL-010Z-TFC-072	ZF03KAE-TF5	208/230	24.1	19.0	17.7	3/8				4.9			5.1	6.5	15	0
FFAL-010Z-TFC-075	ZF03KAE-TF5	208/230	24.1	19.0	17.7	3/8								6.5	15	0
FFAL-013Z-CFV-072	ZF04KAE-PFV	208/230	24.1	19.0	17.7	3/8				4.9			5.1	10.7	15	0
FFAL-013Z-TFC-072	ZF04KAE-TF5	208/230	24.1	19.0	17.7	3/8				4.9			5.1	9.7	15	0
FFAL-013Z-TFC-075	ZF04KAE-TF5	208/230	24.1	19.0	17.7	3/8								9.7	15	0
FFAL-014Z-CFV-072	ZF05KAE-PFV	208/230	24.1	19.0	17.7	3/8				4.9			5.1	12.3	15	0
FFAL-014Z-CFV-075	ZF05KAE-PFV	208/230	24.1	19.0	17.7	3/8								12.3	15	0
FFAL-014Z-TFC-072	ZF05KAE-TF5	208/230	24.1	19.0	17.7	3/8				4.9			5.1	10.8	15	0
FFAL-014Z-TFC-075	ZF05KAE-TF5	208/230	24.1	19.0	17.7	3/8								10.8	15	0
FFAL-015Z-CFV-072	ZF06K4E-PFV	208/230	24.1	19.0	17.7	3/8				4.9			5.1	18.4	30	0
FFAL-015Z-CFV-075	ZF06K4E-PFV	208/230	24.1	19.0	17.7	3/8								18.4	30	0
FFAL-015Z-TFC-072	ZF06K4E-TF5	208/230	24.1	19.0	17.7	3/8				4.9			5.1	13	20	0
FFAL-015Z-TFC-075	ZF06K4E-TF5	208/230	24.1	19.0	17.7	3/8								13	20	0
FFAL-015Z-TFD-072	ZF06K4E-TFD	460	24.1	19.0	17.7	3/8				4.9			5.1	6.3	15	0
FFAL-015Z-TFD-075	ZF06K4E-TFD	460	24.1	19.0	17.7	3/8								6.3	15	0
FFAL-017Z-CFV-072	ZF07KAE-PFV	208/230	24.1	19.0	17.7	3/8				4.9			5.1	18.8	30	0
FFAL-017Z-CFV-075	ZF07KAE-PFV	208/230	24.1	19.0	17.7	3/8								18.8	30	0
FFAL-017Z-TFC-072	ZF07KAE-TF5	208/230	24.1	19.0	17.7	3/8				4.9			5.1	12.2	15	0
FFAL-017Z-TFC-075	ZF07KAE-TF5	208/230	24.1	19.0	17.7	3/8								12.2	15	0
FFAL-020Z-CFV-071	ZF08K4E-PFV	208/230	25	34.1	20.1	3/8	7/8							23.3	35	0
FFAL-020Z-TFC-071	ZF08K4E-TF5	208/230	25	34.1	20.1	3/8	7/8							14.9	20	0
FFAL-020Z-TFD-071	ZF08K4E-TFD	460	25	34.1	20.1	3/8	7/8							8	15	0
FFAL-022Z-CFV-071	ZF09K4E-PFV	208/230	25	34.1	20.1	3/8	7/8							24.2	35	0
FFAL-022Z-TFC-071	ZF09K4E-TF5	208/230	25	34.1	20.1	3/8	7/8							16.7	20	0
FFAL-022Z-TFD-071	ZF09K4E-TFD	460	25	34.1	20.1	3/8	7/8							8.9	15	0
FFAL-026Z-CFV-071	ZF11K4E-PFV	208/230	25	34.1	20.1	3/8	7/8							28.7	45	0
FFAL-026Z-TFC-071	ZF11K4E-TF5	208/230	25	34.1	20.1	3/8	7/8							20.6	30	0
FFAL-026Z-TFD-071	ZF11K4E-TFD	460	25	34.1	20.1	3/8	7/8							10.7	15	0
FFAL-030Z-CFV-071	ZF13K4E-PFV	208/230	25	34.1	20.1	3/8	7/8							36.3	60	0
FFAL-030Z-TFC-071	ZF13K4E-TF5	208/230	25	34.1	20.1	3/8	7/8							21.6	30	0
FFAL-030Z-TFD-071	ZF13K4E-TFD	460	25	34.1	20.1	3/8	7/8							12.1	15	0
FFAL-040Z-CFV-071	ZF15K4E-PFV	208/230	25	34.1	20.1	3/8	7/8							43	70	0
FFAL-040Z-TFC-071	ZF15K4E-TF5	208/230	25	34.1	20.1	3/8	7/8							30	45	0
FFAL-040Z-TFD-071	ZF15K4E-TFD	460	25	34.1	20.1	3/8	7/8							13.8	20	0
FFAL-050Z-TFC-071	ZF18K4E-TF5	208/230	25	34.1	20.1	3/8	7/8							32.7	50	0
FFAL-050Z-TFD-071	ZF18K4E-TFD	460	25	34.1	20.1	3/8	7/8							13.4	20	0
FFAM-008Z-CFV-072	ZB06KAE-PFV	208/230	24.1	18.5	16.3	3/8				4.9			5.1	8.9	15	0
FFAM-008Z-TFC-072	ZB06KAE-TF5	208/230	24.1	18.5	16.3	3/8				4.9			5.1	7.4	15	0
FFAM-010Z-CFV-072	ZB07KAE-PFV	208/230	24.1	18.5	16.3	3/8				4.9			5.1	9.7	15	0
FFAM-010Z-TFC-072	ZB07KAE-TF5	208/230	24.1	18.5	16.3	3/8				4.9			5.1	8	15	0
FFAM-012Z-CFV-072	ZB08KAE-PFV	208/230	24.1	18.5	16.3	3/8				4.9			5.1	11.4	15	0
FFAM-012Z-TFC-072	ZB08KAE-TF5	208/230	24.1	18.5	16.3	3/8				4.9			5.1	8.4	15	0
FFAM-071Z-TFC-071	ZB48KCE-TF5	208/230	27.8	44	36.7	5/8								40.8	50	0
FFAM-071Z-TFD-071	ZB48KCE-TFD	460	27.8	44	36.7	5/8								21.4	30	0
FFAM-081Z-TFC-071	ZB57KCE-TF5	208/230	27.8	44	36.7	5/8								53.4	70	0
FFAM-081Z-TFD-071	ZB57KCE-TFD	460	27.8	44	36.7	5/8								23.4	30	0
FFAM-091Z-TFC-071	ZB66K5E-TFC	208/230	27.8	44	36.7	5/8								58.1	80	0
FFAM-091Z-TFD-071	ZB66K5E-TFD	460	27.8	44	36.7	5/8								26	35	0
FFAM-101Z-TFC-071	ZB76K5E-TFC	208/230	27.8	44	36.7	5/8								62.8	90	0
FFAM-101Z-TFD-071	ZB76K5E-TFD	460	27.8	44	36.7	5/8								30.3	45	0
FFAP-015Z-CFV-072	ZS09KAE-PFV	208/230	24.1	18.3	16.6	3/8	7/8	7.5	7.4	6.4	7.1	7.0	6.8	13.9	20	110
FFAP-015Z-CFV-075	ZS09KAE-PFV	208/230	24.1	18.3	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	13.9	20	117
FFAP-015Z-TFC-072	ZS09KAE-TF5	208/230	24.1	18.3	16.6	3/8	7/8	7.5	7.4	6.4	7.1	7.0	6.8	11.4	15	110

Physical and Electrical Data

Copeland Scroll air-cooled condensing units

Model	Compressor	Voltage	Dimensions			Refrigerant Connections		Receiver Capacity (Lbs @ 90% Volume)						MCA	Max Fuse	Ship Weight
			L	W	H	Liquid	Suction	134a	22	404A	407A	407C	448A 449A			
FFAP-015Z-TFC-075	ZS09KAE-TF5	208/230	24.1	18.3	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	11.4	15	119
FFAP-015Z-TFD-072	ZS09KAE-TFD	460	24.1	18.3	16.6	3/8	7/8	7.5	7.4	6.4	7.1	7.0	6.8	6.4	15	117
FFAP-015Z-TFD-075	ZS09KAE-TFD	460	24.1	18.3	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	6.4	15	117
FFAP-017Z-CFV-072	ZS11KAE-PFV	208/230	24.1	18.3	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	17.2	25	114
FFAP-017Z-CFV-075	ZS11KAE-PFV	208/230	24.1	18.3	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	17.2	25	117
FFAP-017Z-TFC-072	ZS11KAE-TF5	208/230	24.1	18.3	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	14.4	20	114
FFAP-017Z-TFC-075	ZS11KAE-TF5	208/230	24.1	18.3	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	14.4	20	105
FFAP-017Z-TFD-072	ZS11KAE-TFD	460	24.1	18.3	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	7	15	75
FFAP-017Z-TFD-075	ZS11KAE-TFD	460	24.1	18.3	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	7	15	119
FFAP-018Z-CFV-072	ZS13KAE-PFV	208/230	24.07	18.33	16.62	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	16.4	25	112
FFAP-020Z-CFV-071	ZS13KAE-PFV	208/230	25.2	34.1	19	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	16.8	25	220
FFAP-020Z-CFV-072	ZS13KAE-PFV	208/230	25.2	34.1	19	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	16.8	25	186
FFAP-020Z-TFC-071	ZS13KAE-TF5	208/230	25.2	34.1	19	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	13.9	20	220
FFAP-020Z-TFC-072	ZS13KAE-TF5	208/230	25.2	34.1	19	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	13.9	20	180
FFAP-020Z-TFD-071	ZS13KAE-TFD	460	25.2	34.1	19	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	7.1	5	198
FFAP-020Z-TFD-072	ZS13KAE-TFD	460	25.2	34.1	19	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	7.1	15	193
FFAP-022Z-CFV-071	ZS15KAE-PFV	208/230	25.2	34.1	19	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	22.4	35	194
FFAP-022Z-CFV-072	ZS15KAE-PFV	208/230	25	34	19.02	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	22.4	35	183
FFAP-022Z-TFC-071	ZS15KAE-TF5	208/230	25.2	34.1	19	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	16.1	20	220
FFAP-022Z-TFC-072	ZS15KAE-TF5	208/230	25	34.06	19.02	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	16.1	20	186
FFAP-022Z-TFD-071	ZS15KAE-TFD	460	25.2	34.1	19	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	10	15	200
FFAP-030Z-CFV-071	ZS19KAE-PFV	208/230	25.2	34.1	19	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	25.3	40	219
FFAP-030Z-CFV-072	ZS19KAE-PFV	208/230	25	34.06	19.03	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	25.3	40	183
FFAP-030Z-TFC-071	ZS19KAE-TF5	208/230	25.2	34.1	19	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	19.9	30	202
FFAP-030Z-TFC-072	ZS19KAE-TF5	208/230	25	34.06	19.03	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	19.9	30	192
FFAP-030Z-TFD-071	ZS19KAE-TFD	460	25.2	34.1	19	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	11.3	15	220
FFAP-032Z-CFV-071	ZS21KAE-PFV	208/230	25.2	34.1	19	3/8	1 1/8	13	12.9	11.2	12.3	12.2	11.8	31.8	50	219
FFAP-032Z-CFV-072	ZS21KAE-PFV	208/230	34.06	25.05	18.86	3/8	1 1/8	13	12.9	11.2	12.3	12.2	11.8	31.8	50	120
FFAP-032Z-TFC-071	ZS21KAE-TF5	208/230	25.2	34.1	19	3/8	1 1/8	13	12.9	11.2	12.3	12.2	11.8	21.8	30	219
FFAP-032Z-TFC-072	ZS21KAE-TF5	208/230	19.5	28.08	12.23	3/8	1/2	13	12.9	11.2	12.3	12.2	11.8	21.8	30	201
FFAP-032Z-TFD-071	ZS21KAE-TFD	460	25.2	34.1	19	3/8	1 1/8	13	12.9	11.2	12.3	12.2	11.8	11.8	15	225
FFAP-035Z-CFV-071	ZS26KAE-PFV	208/230	25.26	34.06	19.04	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	32.3	50	223
FFAP-035Z-TFC-071	ZS26KAE-TF5	208/230	25.26	34.06	19.04	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	22.2	30	210
FFAP-040Z-CFV-071	ZS26KAE-PFV	208/230	28.2	44.1	26.8	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		33.1	50	322
FFAP-040Z-CFV-072	ZS26KAE-PFV	208/230	28.19	44.07	26.8	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		33.1	50	297
FFAP-040Z-TFC-071	ZS26KAE-TF5	208/230	28.2	44.1	26.8	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		23	30	325
FFAP-040Z-TFC-072	ZS26KAE-TF5	208/230	28.19	44.07	26.8	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		23	30	296
FFAP-040Z-TFD-071	ZS26KAE-TFD	460	28.2	44.1	26.8	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		11	15	305
FFAP-042Z-CFV-071	ZS33KAE-PFV	208/230	28.2	44.1	26.8	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		38.9	60	325
FFAP-042Z-CFV-072	ZS33KAE-PFV	208/230	28.2	44.1	26.8	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		38.9	60	321
FFAP-042Z-TFC-071	ZS33KAE-TF5	208/230	28.2	44.1	26.8	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		31.5	50	317
FFAP-042Z-TFC-072	ZS33KAE-TF5	208/230	28.2	44.1	26.8	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		31.5	50	308
FFAP-042Z-TFD-071	ZS33KAE-TFD	460	28.2	44.1	26.8	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		14.9	20	320
FFAP-050Z-CFV-071	ZS38K4E-PFV	208/230	28.2	44.1	26.8	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		43.4	70	320
FFAP-050Z-CFV-072	ZS38K4E-PFV	208/230	28.2	44.1	26.8	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		43.4	70	332
FFAP-050Z-TFC-071	ZS38K4E-TF5	208/230	28.2	44.1	26.8	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		30.4	45	362
FFAP-050Z-TFC-072	ZS38K4E-TF5	208/230	28.2	44.1	26.8	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		30.4	45	317
FFAP-050Z-TFD-071	ZS38K4E-TFD	460	28.2	44.1	26.8	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		14.4	20	331
FFAP-050Z-TFE-070	ZS38K4E-TFE	575	28.2	44.1	26.8	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		11.9	15	318
FFAP-050Z-TFE-075	ZS38K4E-TFE	575	28.2	44.1	26.8	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		11.9	15	324
FFAP-060Z-TFC-071	ZS45K4E-TF5	208/230	28.19	44.06	26.8	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		33.5	50	320
FFAP-060Z-TFD-071	ZS45K4E-TFD	460	28.19	44.06	26.8	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		14	20	342
FPAK-010Z-CFV-072	ZS09KAE-PFV	208/230	24	17.06	16.62	3/8	3/4	7.5		6.4				13.7	20	101
FPAK-010Z-TFC-072	ZS09KAE-TF5	208/230	24	17.06	16.62	3/8	3/4	7.5		6.4				11.2	15	100
FPAK-010Z-TFD-072	ZS09KAE-TFD	460	24	17.06	16.62	3/8	3/4	7.5		6.4				5.5	15	104

Physical and Electrical Data

Copeland Scroll air-cooled condensing units

Model	Compressor	Voltage	Dimensions			Refrigerant Connections		Receiver Capacity (Lbs @ 90% Volume)						MCA	Max Fuse	Ship Weight	
			L	W	H	Liquid	Suction	134a	22	404A	407A	407C	448A 449A				
FPAK-012Z-CFV-072	ZS11KAE-PFV	208/230	24	17.06	16.62	3/8	3/4	7.5	6.4						16.9	25	103
FPAK-012Z-CFV-212	ZS11KAE-PFV	208/230	24	17.06	16.62	3/8	5/8	7.5	6.4						16.9	25	0
FPAK-012Z-TFC-072	ZS11KAE-TF5	208/230	24	17.06	16.62	3/8	3/4	7.5	6.4						14.2	20	104
FPAK-012Z-TFD-072	ZS11KAE-TFD	460	24	17.06	16.62	3/8	3/4	7.5	6.4						6.2	15	104
FPAK-013Z-CFV-017	ZS15KAE-PFV	208/230	24.07	18.33	16.62	3/8	7/8								21	35	110
FPAK-013Z-CFV-072	ZS15KAE-PFV	208/230	24.1	18.3	16.6	3/8	7/8	7.5	6.4						21	35	114
FPAK-013Z-CFV-075	ZS15KAE-PFV	208/230	24.1	18.3	16.6	3/8	7/8	13	11.2						21	35	75
FPAK-013Z-TFC-017	ZS15KAE-TF5	208/230	24.07	18.33	16.62	3/8	7/8								14.7	20	0
FPAK-013Z-TFC-072	ZS15KAE-TF5	208/230	24.1	18.3	16.6	3/8	7/8	7.5	6.4						14.7	20	112
FPAK-013Z-TFC-075	ZS15KAE-TF5	208/230	24.1	18.3	16.6	3/8	7/8	13	11.2						14.7	20	113
FPAK-013Z-TFD-072	ZS15KAE-TFD	460	24.1	18.3	16.6	3/8	7/8	7.5	6.4						8.4	15	150
FPAK-013Z-TFD-075	ZS15KAE-TFD	460	24.1	18.3	16.6	3/8	7/8	13	11.2						8.4	15	122
FPAK-015Z-CFV-072	ZS19KAE-PFV	208/230	24.1	18.3	16.6	3/8	7/8	7.5	6.4						23.9	40	112
FPAK-015Z-CFV-075	ZS19KAE-PFV	208/230	24.1	18.3	16.6	3/8	7/8	13	11.2						23.9	40	116
FPAK-015Z-CFV-078	ZS19KAE-PFV	208/230	24.1	18.3	16.6	3/8	7/8	13	11.2						23.9	40	0
FPAK-015Z-TFC-072	ZS19KAE-TF5	208/230	24.1	18.3	16.6	3/8	7/8	7.5	6.4						18.5	30	117
FPAK-015Z-TFC-075	ZS19KAE-TF5	208/230	24.1	18.3	16.6	3/8	7/8	13	11.2						18.5	30	114
FPAK-015Z-TFC-078	ZS19KAE-TF5	208/230	24.1	18.3	16.6	3/8	7/8	13	11.2						18.5	30	0
FPAK-015Z-TFD-072	ZS19KAE-TFD	460	24.1	18.3	16.6	3/8	7/8	7.5	6.4						9.7	15	119
FPAK-015Z-TFD-075	ZS19KAE-TFD	460	24.1	18.3	16.6	3/8	7/8	13	11.2						9.7	15	0
FPAK-020Z-CFV-071	ZS21KAE-PFV	208/230	25	34.1	19	3/8	7/8	13	11.2						31.8	50	0
FPAK-020Z-CFV-072	ZS21KAE-PFV	208/230	25	34.1	19	3/8	7/8	13	11.2						31.8	50	204
FPAK-020Z-TFC-071	ZS21KAE-TF5	208/230	25	34.1	19	3/8	7/8	13	11.2						21.8	30	207
FPAK-020Z-TFC-072	ZS21KAE-TF5	208/230	25	34.1	19	3/8	7/8	13	11.2						21.8	30	220
FPAK-020Z-TFD-071	ZS21KAE-TFD	460	25	34.1	19	3/8	7/8	13	11.2						11.8	15	210
FPAK-020Z-TFD-072	ZS21KAE-TFD	460	25	34.1	19	3/8	7/8	13	11.2						11.8	15	201
FPAK-039Z-CFV-071	ZS29KAE-PFV	208/230	25.2	34.1	19	3/8	7/8	13	11.2						35.4	50	220
FPAK-039Z-TFC-071	ZS29KAE-TF5	208/230	25.2	34.1	19	3/8	7/8	13	11.2						28.4	45	220
FPAK-039Z-TFD-071	ZS29KAE-TFD	460	25.2	34.1	19	3/8	7/8	13	11.2						15	20	219
FPAK-E10Z-CFV-072	ZS09KAE-PFV	208/230	24	17.06	16.62	3/8	3/4	7.5	6.4						13.6	20	101

R-134a Low Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25														
90° Ambient																													
FFAL-010Z-CFV	ZF03KAE-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information																											
FFAL-010Z-TFC	ZF03KAE-TF5																												
FFAL-013Z-CFV	ZF04KAE-PFV																												
FFAL-013Z-TFC	ZF04KAE-TF5																												
FFAL-014Z-CFV	ZF05KAE-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information																											
FFAL-014Z-TFC	ZF05KAE-TF5																												
FFAL-015Z-CFV	ZF06K4E-PFV															2,400	2,760	3,170	3,620	4,130	4,700	5,330	6,020	6,780	7,610	8,510	9,480	10,500	11,600
FFAL-015Z-TFC	ZF06K4E-TF5															2,380	2,740	3,140	3,590	4,100	4,660	5,280	5,970	6,730	7,550	8,450	9,410	10,400	11,600
FFAL-015Z-TFD	ZF06K4E-TFD	2,380	2,740	3,140	3,590	4,100	4,660	5,280	5,970	6,730	7,550	8,450	9,410	10,400	11,600														
FFAL-017Z-CFV	ZF07KAE-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information																											
FFAL-017Z-TFC	ZF07KAE-TF5																												
FFAL-020Z-CFV	ZF08K4E-PFV															3,020	3,470	3,980	4,560	5,200	5,920	6,730	7,610	8,590	9,660	10,800	12,100	13,500	15,000
FFAL-020Z-TFC	ZF08K4E-TF5															3,000	3,450	3,950	4,520	5,170	5,880	6,680	7,560	8,530	9,600	10,800	12,000	13,400	14,900
FFAL-020Z-TFD	ZF08K4E-TFD	3,000	3,450	3,950	4,520	5,170	5,880	6,680	7,560	8,530	9,600	10,800	12,000	13,400	14,900														
FFAL-022Z-CFV	ZF09K4E-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information																											
FFAL-022Z-TFC	ZF09K4E-TF5																												
FFAL-022Z-TFD	ZF09K4E-TFD																												
FFAL-026Z-CFV	ZF11K4E-PFV															4,100	4,720	5,420	6,200	7,070	8,040	9,120	10,300	11,600	13,000	14,600	16,200	18,000	19,900
FFAL-026Z-TFC	ZF11K4E-TF5	4,100	4,720	5,420	6,200	7,070	8,040	9,120	10,300	11,600	13,000	14,600	16,200	18,000	19,900														
FFAL-026Z-TFD	ZF11K4E-TFD	4,100	4,720	5,420	6,200	7,070	8,040	9,120	10,300	11,600	13,000	14,600	16,200	18,000	19,900														
FFAL-030Z-CFV	ZF13K4E-PFV	4,740	5,450	6,250	7,160	8,180	9,300	10,500	11,900	13,400	15,000	16,800	18,700	20,700	22,800														
FFAL-030Z-TFC	ZF13K4E-TF5	4,850	5,610	6,440	7,370	8,400	9,520	10,800	12,100	13,600	15,200	16,900	18,700	20,700	22,800														
FFAL-030Z-TFD	ZF13K4E-TFD	4,850	5,610	6,440	7,370	8,400	9,520	10,800	12,100	13,600	15,200	16,900	18,700	20,700	22,800														
FFAL-040Z-CFV	ZF15K4E-PFV	5,750	6,610	7,590	8,680	9,910	11,300	12,800	14,400	16,200	18,100	20,100	22,300	24,700	27,200														
FFAL-040Z-TFC	ZF15K4E-TF5	5,950	6,860	7,860	8,980	10,200	11,600	13,100	14,700	16,400	18,300	20,300	22,500	24,800	27,300														
FFAL-040Z-TFD	ZF15K4E-TFD	5,950	6,860	7,860	8,980	10,200	11,600	13,100	14,700	16,400	18,300	20,300	22,500	24,800	27,300														
FFAL-050Z-TFC	ZF18K4E-TF5	6,900	7,990	9,200	10,500	12,000	13,600	15,300	17,200	19,200	21,400	23,700	26,200	28,900	31,700														
FFAL-050Z-TFD	ZF18K4E-TFD	6,900	7,990	9,200	10,500	12,000	13,600	15,300	17,200	19,200	21,400	23,700	26,200	28,900	31,700														
100° Ambient																													
FFAL-010Z-CFV	ZF03KAE-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information																											
FFAL-010Z-TFC	ZF03KAE-TF5																												
FFAL-013Z-CFV	ZF04KAE-PFV																												
FFAL-013Z-TFC	ZF04KAE-TF5																												
FFAL-014Z-CFV	ZF05KAE-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information																											
FFAL-014Z-TFC	ZF05KAE-TF5																												
FFAL-015Z-CFV	ZF06K4E-PFV															2,230	2,590	2,990	3,440	3,930	4,470	5,060	5,710	6,430	7,200	8,040	8,940	9,910	10,900
FFAL-015Z-TFC	ZF06K4E-TF5															2,210	2,570	2,970	3,410	3,890	4,430	5,020	5,670	6,380	7,150	7,980	8,880	9,840	10,900
FFAL-015Z-TFD	ZF06K4E-TFD	2,210	2,570	2,970	3,410	3,890	4,430	5,020	5,670	6,380	7,150	7,980	8,880	9,840	10,900														
FFAL-017Z-CFV	ZF07KAE-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information																											
FFAL-017Z-TFC	ZF07KAE-TF5																												
FFAL-020Z-CFV	ZF08K4E-PFV															2,810	3,270	3,770	4,330	4,950	5,640	6,400	7,230	8,150	9,150	10,200	11,400	12,700	14,100
FFAL-020Z-TFC	ZF08K4E-TF5															2,790	3,250	3,750	4,300	4,920	5,600	6,350	7,180	8,090	9,090	10,200	11,400	12,600	14,000
FFAL-020Z-TFD	ZF08K4E-TFD	2,790	3,250	3,750	4,300	4,920	5,600	6,350	7,180	8,090	9,090	10,200	11,400	12,600	14,000														
FFAL-022Z-CFV	ZF09K4E-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information																											
FFAL-022Z-TFC	ZF09K4E-TF5																												
FFAL-022Z-TFD	ZF09K4E-TFD																												
FFAL-026Z-CFV	ZF11K4E-PFV															3,820	4,450	5,130	5,890	6,720	7,640	8,660	9,770	11,000	12,300	13,700	15,300	16,900	18,700
FFAL-026Z-TFC	ZF11K4E-TF5	3,820	4,450	5,130	5,890	6,720	7,640	8,660	9,770	11,000	12,300	13,700	15,300	16,900	18,700														
FFAL-026Z-TFD	ZF11K4E-TFD	3,820	4,450	5,130	5,890	6,720	7,640	8,660	9,770	11,000	12,300	13,700	15,300	16,900	18,700														
FFAL-030Z-CFV	ZF13K4E-PFV	4,280	4,970	5,740	6,600	7,570	8,630	9,800	11,100	12,500	14,000	15,600	17,400	19,300	21,300														
FFAL-030Z-TFC	ZF13K4E-TF5	4,580	5,290	6,090	6,960	7,920	8,980	10,100	11,400	12,800	14,300	15,900	17,600	19,400	21,400														
FFAL-030Z-TFD	ZF13K4E-TFD	4,580	5,290	6,090	6,960	7,920	8,980	10,100	11,400	12,800	14,300	15,900	17,600	19,400	21,400														
FFAL-040Z-CFV	ZF15K4E-PFV	5,200	6,030	6,960	8,000	9,160	10,400	11,800	13,400	15,000	16,800	18,700	20,800	23,000	25,400														
FFAL-040Z-TFC	ZF15K4E-TF5	5,590	6,460	7,420	8,470	9,630	10,900	12,300	13,800	15,400	17,200	19,100	21,100	23,200	25,500														
FFAL-040Z-TFD	ZF15K4E-TFD	5,590	6,460	7,420	8,470	9,630	10,900	12,300	13,800	15,400	17,200	19,100	21,100	23,200	25,500														
FFAL-050Z-TFC	ZF18K4E-TF5	6,530	7,570	8,710	9,950	11,300	12,800	14,400	16,100	18,000	20,000	22,200	24,500	26,900	29,500														
FFAL-050Z-TFD	ZF18K4E-TFD	6,530	7,570	8,710	9,950	11,300	12,800	14,400	16,100	18,000	20,000	22,200	24,500	26,900	29,500														

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

R-134a Low Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25
110° Ambient															
FFAL-010Z-CFV	ZF03KAE-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information													
FFAL-010Z-TFC	ZF03KAE-TF5														
FFAL-013Z-CFV	ZF04KAE-PFV														
FFAL-013Z-TFC	ZF04KAE-TF5	Data not available at time of printing. See Emerson.com/OPI for updated information													
FFAL-014Z-CFV	ZF05KAE-PFV														
FFAL-014Z-TFC	ZF05KAE-TF5														
FFAL-015Z-CFV	ZF06K4E-PFV	2,070	2,430	2,830	3,250	3,720	4,230	4,790	5,400	6,060	6,780	7,550	8,390	9,280	10,200
FFAL-015Z-TFC	ZF06K4E-TF5	2,050	2,410	2,800	3,230	3,690	4,200	4,750	5,360	6,020	6,730	7,500	8,330	9,220	10,200
FFAL-015Z-TFD	ZF06K4E-TFD	2,050	2,410	2,800	3,230	3,690	4,200	4,750	5,360	6,020	6,730	7,500	8,330	9,220	10,200
FFAL-017Z-CFV	ZF07KAE-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information													
FFAL-017Z-TFC	ZF07KAE-TF5														
FFAL-020Z-CFV	ZF08K4E-PFV														
FFAL-020Z-TFC	ZF08K4E-TF5	2,620	3,070	3,560	4,090	4,680	5,320	6,030	6,810	7,650	8,570	9,580	10,700	11,800	13,100
FFAL-020Z-TFD	ZF08K4E-TFD	2,620	3,070	3,560	4,090	4,680	5,320	6,030	6,810	7,650	8,570	9,580	10,700	11,800	13,100
FFAL-022Z-CFV	ZF09K4E-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information													
FFAL-022Z-TFC	ZF09K4E-TF5														
FFAL-022Z-TFD	ZF09K4E-TFD														
FFAL-026Z-CFV	ZF11K4E-PFV	3,570	4,190	4,860	5,590	6,380	7,250	8,200	9,230	10,400	11,600	12,900	14,300	15,800	17,400
FFAL-026Z-TFC	ZF11K4E-TF5	3,570	4,190	4,860	5,590	6,380	7,250	8,200	9,230	10,400	11,600	12,900	14,300	15,800	17,400
FFAL-026Z-TFD	ZF11K4E-TFD	3,570	4,190	4,860	5,590	6,380	7,250	8,200	9,230	10,400	11,600	12,900	14,300	15,800	17,400
FFAL-030Z-CFV	ZF13K4E-PFV	3,960	4,610	5,330	6,140	7,030	8,020	9,110	10,300	11,600	13,000	14,500	16,200	17,900	19,800
FFAL-030Z-TFC	ZF13K4E-TF5	4,330	5,000	5,740	6,550	7,440	8,420	9,480	10,600	11,900	13,300	14,800	16,300	18,100	19,900
FFAL-030Z-TFD	ZF13K4E-TFD	4,330	5,000	5,740	6,550	7,440	8,420	9,480	10,600	11,900	13,300	14,800	16,300	18,100	19,900
FFAL-040Z-CFV	ZF15K4E-PFV	4,840	5,620	6,490	7,460	8,540	9,720	11,000	12,400	14,000	15,600	17,400	19,400	21,400	23,600
FFAL-040Z-TFC	ZF15K4E-TF5	5,240	6,060	6,960	7,950	9,030	10,200	11,500	12,900	14,400	16,000	17,700	19,600	21,600	23,700
FFAL-040Z-TFD	ZF15K4E-TFD	5,240	6,060	6,960	7,950	9,030	10,200	11,500	12,900	14,400	16,000	17,700	19,600	21,600	23,700
FFAL-050Z-TFC	ZF18K4E-TF5	6,160	7,140	8,200	9,350	10,600	12,000	13,400	15,000	16,700	18,600	20,500	22,700	24,900	
FFAL-050Z-TFD	ZF18K4E-TFD	6,160	7,140	8,200	9,350	10,600	12,000	13,400	15,000	16,700	18,600	20,500	22,700	24,900	

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

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
90° Ambient												
FFAM-008Z-CFV	ZB06KAE-PFV											
FFAM-008Z-TFC	ZB06KAE-TF5											
FFAM-010Z-CFV	ZB07KAE-PFV											
FFAM-010Z-TFC	ZB07KAE-TF5											
FFAM-012Z-CFV	ZB08KAE-PFV											
FFAM-012Z-TFC	ZB08KAE-TF5											
FFAK-010Z-CFV	ZS09KAE-PFV	4020	4520	5060	5620	6230	6870	7100	7810	8570	9370	10200
FFAK-010Z-TFC	ZS09KAE-TF5	4020	4520	5060	5620	6230	6870	7100	7810	8570	9370	10200
FFAK-010Z-TFD	ZS09KAE-TFD	4020	4520	5060	5620	6230	6870	7100	7810	8570	9370	10200
FFAP-015Z-CFV	ZS09KAE-PFV	4220	4770	5360	6000	6680	7420	7540	8340	9200	10100	11100
FFAP-015Z-TFC	ZS09KAE-TF5	4220	4770	5360	6000	6680	7420	7540	8340	9200	10100	11100
FFAP-015Z-TFD	ZS09KAE-TFD	4220	4770	5360	6000	6680	7420	7540	8340	9200	10100	11100
FFAK-012Z-CFV	ZS11KAE-PFV	4730	5300	5920	6560	7250	7980	8250	9060	9910	10800	11700
FFAK-012Z-TFC	ZS11KAE-TF5	4730	5300	5920	6560	7250	7980	8250	9060	9910	10800	11700
FFAK-012Z-TFD	ZS11KAE-TFD	4730	5300	5920	6560	7250	7980	8250	9060	9910	10800	11700
FFAP-017Z-CFV	ZS11KAE-PFV	5000	5640	6340	7080	7880	8750	8900	9840	10800	11900	13100
FFAP-017Z-TFC	ZS11KAE-TF5	5000	5640	6340	7080	7880	8750	8900	9840	10800	11900	13100
FFAP-017Z-TFD	ZS11KAE-TFD	5000	5640	6340	7080	7880	8750	8900	9840	10800	11900	13100
FFAP-018Z-CFV	ZS13KAE-PFV	5640	6350	7120	7940	8810	9750	9930	10900	12000	13200	14400
FFAP-020Z-CFV	ZS13KAE-PFV	5760	6500	7300	8160	9090	10100	10300	11400	12500	13800	15100
FFAP-020Z-TFC	ZS13KAE-TF5	5760	6500	7300	8160	9090	10100	10300	11400	12500	13800	15100
FFAP-020Z-TFD	ZS13KAE-TFD	5760	6500	7300	8160	9090	10100	10300	11400	12500	13800	15100
FFAK-013Z-CFV	ZS15KAE-PFV	6640	7470	8360	9300	10300	11400	11800	13000	14200	15600	17000
FFAK-013Z-TFC	ZS15KAE-TF5	6640	7470	8360	9300	10300	11400	11800	13000	14200	15600	17000
FFAK-013Z-TFD	ZS15KAE-TFD	6640	7470	8360	9300	10300	11400	11800	13000	14200	15600	17000
FFAP-022Z-CFV	ZS15KAE-PFV	6850	7730	8680	9690	10800	12000	12200	13400	14800	16300	17800
FFAP-022Z-TFC	ZS15KAE-TF5	6850	7730	8680	9690	10800	12000	12200	13400	14800	16300	17800
FFAP-022Z-TFD	ZS15KAE-TFD	6850	7730	8680	9690	10800	12000	12200	13400	14800	16300	17800
FFAK-015Z-CFV	ZS19KAE-PFV	7410	8330	9310	10300	11500	12600	13100	14300	15700	17200	18700
FFAK-015Z-TFC	ZS19KAE-TF5	7410	8330	9310	10300	11500	12600	13100	14300	15700	17200	18700
FFAK-015Z-TFD	ZS19KAE-TFD	7410	8330	9310	10300	11500	12600	13100	14300	15700	17200	18700
FFAP-030Z-CFV	ZS19KAE-PFV	8190	9250	10400	11600	13000	14400	14700	16200	17900	19700	21600
FFAP-030Z-TFC	ZS19KAE-TF5	8190	9250	10400	11600	13000	14400	14700	16200	17900	19700	21600
FFAP-030Z-TFD	ZS19KAE-TFD	8190	9250	10400	11600	13000	14400	14700	16200	17900	19700	21600
FFAK-020Z-CFV	ZS21KAE-PFV	10000	11300	12600	14000	15500	17200	17700	19500	21400	23400	25600
FFAK-020Z-TFC	ZS21KAE-TF5	10000	11300	12600	14000	15500	17200	17700	19500	21400	23400	25600
FFAK-020Z-TFD	ZS21KAE-TFD	10000	11300	12600	14000	15500	17200	17700	19500	21400	23400	25600
FFAP-032Z-CFV	ZS21KAE-PFV	10400	11800	13200	14700	16400	18200	18500	20400	22500	24700	27100
FFAP-032Z-TFC	ZS21KAE-TF5	10400	11800	13200	14700	16400	18200	18500	20400	22500	24700	27100
FFAP-032Z-TFD	ZS21KAE-TFD	10400	11800	13200	14700	16400	18200	18500	20400	22500	24700	27100
FFAP-035Z-CFV	ZS26KAE-PFV	11500	13000	14500	16200	18000	20000	20300	22500	24700	27200	29700
FFAP-035Z-TFC	ZS26KAE-TF5	11800	13400	15100	16900	18900	21000	21300	23700	26200	28900	31800
FFAP-040Z-CFV	ZS26KAE-PFV	11800	13400	15100	16900	18900	21000	21300	23700	26200	28900	31800
FFAP-040Z-TFC	ZS26KAE-TF5	11800	13400	15100	16900	18900	21000	21300	23700	26200	28900	31800
FFAP-040Z-TFD	ZS26KAE-TFD	11800	13400	15100	16900	18900	21000	21300	23700	26200	28900	31800
FFAK-039Z-CFV	ZS29KAE-PFV	11300	12800	14300	16000	17800	19700	22500	24800	27200	29800	32600
FFAK-039Z-TFC	ZS29KAE-TF5	11300	12800	14300	16000	17800	19700	22500	24800	27200	29800	32600
FFAK-039Z-TFD	ZS29KAE-TFD	11300	12800	14300	16000	17800	19700	22500	24800	27200	29800	32600
FFAP-042Z-CFV	ZS33KAE-PFV	14600	16500	18500	20700	23100	25700	26100	29000	32000	35200	38700
FFAP-042Z-TFC	ZS33KAE-TF5	14600	16500	18500	20700	23100	25700	26100	29000	32000	35200	38700
FFAP-042Z-TFD	ZS33KAE-TFD	14600	16500	18500	20700	23100	25700	26100	29000	32000	35200	38700
FFAP-060Z-TFC	ZS45K4E-TF5	16300	18400	20600	23000	25600	28300	28900	31900	35200	38600	42100
FFAP-050Z-CFV	ZS38K4E-PFV	16600	18700	20900	23400	26000	28900	29400	32500	35800	39300	43000
FFAP-050Z-TFC	ZS38K4E-TF5	16600	18700	20900	23400	26000	28900	29400	32500	35800	39300	43000
FFAP-050Z-TFD	ZS38K4E-TFD	16600	18700	20900	23400	26000	28900	29400	32500	35800	39300	43000
FFAP-050Z-TFE	ZS38K4E-TFE	16600	18700	20900	23400	26000	28900	29400	32500	35800	39300	43000
FFAP-060Z-TFD	ZS45K4E-TFD	19600	22100	24700	27600	30700	34000	34700	38300	42200	46300	50500
FFAM-071Z-TFC	ZB48KCE-TF5		25200	28200	31500	35000	38700	39500	43500	47900	52500	57500
FFAM-071Z-TFD	ZB48KCE-TFD		25200	28200	31500	35000	38700	39500	43500	47900	52500	57500
FFAM-081Z-TFC	ZB57KCE-TF5		26800	30400	34300	38700	43300	44200	49200	54500	60000	66000
FFAM-081Z-TFD	ZB57KCE-TFD		26800	30400	34300	38700	43300	44200	49200	54500	60000	66000
FFAM-091Z-TFC	ZB66K5E-TFC		30900	34600	38800	43300	48100	49100	54500	60000	65500	71500
FFAM-091Z-TFD	ZB66K5E-TFD		30900	34600	38800	43300	48100	49100	54500	60000	65500	71500
FFAM-101Z-TFC	ZB76K5E-TFC		35100	39400	44000	49000	54500	55500	61500	67500	73500	80000
FFAM-101Z-TFD	ZB76K5E-TFD		35100	39400	44000	49000	54500	55500	61500	67500	73500	80000

Data not available at time of printing. See Emerson.com/OPI for updated information

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.

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
100° Ambient												
FFAM-008Z-CFV	ZB06KAE-PFV											
FFAM-008Z-TFC	ZB06KAE-TF5											
FFAM-010Z-CFV	ZB07KAE-PFV											
FFAM-010Z-TFC	ZB07KAE-TF5											
FFAM-012Z-CFV	ZB08KAE-PFV											
FFAM-012Z-TFC	ZB08KAE-TF5											
FFAP-010Z-CFV	ZS09KAE-PFV		4260	4750	5280	5840	6440	6670	7340	8040	8790	9580
FFAP-010Z-TFC	ZS09KAE-TF5		4260	4750	5280	5840	6440	6670	7340	8040	8790	9580
FFAP-010Z-TFD	ZS09KAE-TFD		4260	4750	5280	5840	6440	6670	7340	8040	8790	9580
FFAP-015Z-CFV	ZS09KAE-PFV	4000	4510	5060	5660	6300	6990	7130	7890	8690	9560	10500
FFAP-015Z-TFC	ZS09KAE-TF5	4000	4510	5060	5660	6300	6990	7130	7890	8690	9560	10500
FFAP-015Z-TFD	ZS09KAE-TFD	4000	4510	5060	5660	6300	6990	7130	7890	8690	9560	10500
FFAP-012Z-CFV	ZS11KAE-PFV		4980	5550	6140	6780	7450	7740	8480	9270	10100	11000
FFAP-012Z-TFC	ZS11KAE-TF5		4980	5550	6140	6780	7450	7740	8480	9270	10100	11000
FFAP-012Z-TFD	ZS11KAE-TFD		4980	5550	6140	6780	7450	7740	8480	9270	10100	11000
FFAP-017Z-CFV	ZS11KAE-PFV	4730	5330	5980	6670	7420	8220	8400	9280	10200	11200	12300
FFAP-017Z-TFC	ZS11KAE-TF5	4730	5330	5980	6670	7420	8220	8400	9280	10200	11200	12300
FFAP-017Z-TFD	ZS11KAE-TFD	4730	5330	5980	6670	7420	8220	8400	9280	10200	11200	12300
FFAP-018Z-CFV	ZS13KAE-PFV	5330	6000	6710	7470	8290	9160	9370	10300	11300	12400	13600
FFAP-020Z-CFV	ZS13KAE-PFV	5440	6140	6890	7690	8560	9490	9700	10700	11800	13000	14200
FFAP-020Z-TFC	ZS13KAE-TF5	5440	6140	6890	7690	8560	9490	9700	10700	11800	13000	14200
FFAP-020Z-TFD	ZS13KAE-TFD	5440	6140	6890	7690	8560	9490	9700	10700	11800	13000	14200
FFAP-013Z-CFV	ZS15KAE-PFV		7040	7870	8750	9690	10700	11100	12200	13400	14600	16000
FFAP-013Z-TFC	ZS15KAE-TF5		7040	7870	8750	9690	10700	11100	12200	13400	14600	16000
FFAP-013Z-TFD	ZS15KAE-TFD		7040	7870	8750	9690	10700	11100	12200	13400	14600	16000
FFAP-022Z-CFV	ZS19KAE-PFV	6480	7310	8190	9140	10200	11300	11500	12700	14000	15400	16800
FFAP-022Z-TFC	ZS15KAE-TF5	6480	7310	8190	9140	10200	11300	11500	12700	14000	15400	16800
FFAP-022Z-TFD	ZS15KAE-TFD	6480	7310	8190	9140	10200	11300	11500	12700	14000	15400	16800
FFAP-015Z-CFV	ZS19KAE-PFV		7840	8750	9710	10700	11800	12300	13500	14800	16100	17600
FFAP-015Z-TFC	ZS19KAE-TF5		7840	8750	9710	10700	11800	12300	13500	14800	16100	17600
FFAP-015Z-TFD	ZS19KAE-TFD		7840	8750	9710	10700	11800	12300	13500	14800	16100	17600
FFAP-030Z-CFV	ZS19KAE-PFV	7810	8810	9890	11000	12300	13600	13900	15400	17000	18700	20500
FFAP-030Z-TFC	ZS19KAE-TFD	7810	8810	9890	11000	12300	13600	13900	15400	17000	18700	20500
FFAP-030Z-TFD	ZS19KAE-TFD	7810	8810	9890	11000	12300	13600	13900	15400	17000	18700	20500
FFAP-020Z-CFV	ZS21KAE-PFV		10600	11900	13200	14600	16100	16700	18400	20200	22100	24100
FFAP-020Z-TFC	ZS21KAE-TF5		10600	11900	13200	14600	16100	16700	18400	20200	22100	24100
FFAP-020Z-TFD	ZS21KAE-TFD		10600	11900	13200	14600	16100	16700	18400	20200	22100	24100
FFAP-032Z-CFV	ZS21KAE-PFV	9860	11100	12400	13900	15400	17100	17400	19300	21200	23300	25500
FFAP-032Z-TFC	ZS21KAE-TF5	9860	11100	12400	13900	15400	17100	17400	19300	21200	23300	25500
FFAP-032Z-TFD	ZS21KAE-TFD	9860	11100	12400	13900	15400	17100	17400	19300	21200	23300	25500
FFAP-035Z-CFV	ZS26KAE-PFV	10900	12200	13700	15300	17000	18800	19200	21200	23300	25600	28000
FFAP-035Z-TFC	ZS26KAE-TF5	10900	12200	13700	15300	17000	18800	19200	21200	23300	25600	28000
FFAP-040Z-CFV	ZS26KAE-PFV	11200	12700	14300	16000	17800	19900	20200	22400	24800	27400	30100
FFAP-040Z-TFC	ZS26KAE-TF5	11200	12700	14300	16000	17800	19900	20200	22400	24800	27400	30100
FFAP-040Z-TFD	ZS26KAE-TFD	11200	12700	14300	16000	17800	19900	20200	22400	24800	27400	30100
FFAP-039Z-CFV	ZS29KAE-PFV	10700	12100	13500	15000	16700	18500	21100	23300	25600	28000	30700
FFAP-039Z-TFC	ZS29KAE-TF5	10700	12100	13500	15000	16700	18500	21100	23300	25600	28000	30700
FFAP-039Z-TFD	ZS29KAE-TFD	10700	12100	13500	15000	16700	18500	21100	23300	25600	28000	30700
FFAP-042Z-CFV	ZS33KAE-PFV	13800	15600	17500	19600	21800	24300	24700	27400	30300	33300	36600
FFAP-042Z-TFC	ZS33KAE-TF5	13800	15600	17500	19600	21800	24300	24700	27400	30300	33300	36600
FFAP-042Z-TFD	ZS33KAE-TFD	13800	15600	17500	19600	21800	24300	24700	27400	30300	33300	36600
FFAP-050Z-CFV	ZS38K4E-PFV	15600	17600	19700	22000	24500	27200	27800	30800	33900	37200	40700
FFAP-050Z-TFC	ZS38K4E-TF5	15600	17600	19700	22000	24500	27200	27800	30800	33900	37200	40700
FFAP-050Z-TFD	ZS38K4E-TFD	15600	17600	19700	22000	24500	27200	27800	30800	33900	37200	40700
FFAP-050Z-TFE	ZS38K4E-TFE	15600	17600	19700	22000	24500	27200	27800	30800	33900	37200	40700
FFAP-060Z-TFC	ZS45K4E-TF5	18500	20900	23400	26100	29000	32100	32900	36300	39900	43800	48000
FFAP-060Z-TFD	ZS45K4E-TFD	18500	20900	23400	26100	29000	32100	32900	36300	39900	43800	48000
FFAM-071Z-TFC	ZB48KCE-TF5		23700	26500	29600	32900	36400	37200	41000	45100	49400	54000
FFAM-071Z-TFD	ZB48KCE-TFD		23700	26500	29600	32900	36400	37200	41000	45100	49400	54000
FFAM-081Z-TFC	ZB57KCE-TF5		24900	28300	32100	36200	40600	41500	46400	51500	57000	62500
FFAM-081Z-TFD	ZB57KCE-TFD		24900	28300	32100	36200	40600	41500	46400	51500	57000	62500
FFAM-091Z-TFC	ZB66K5E-TFC		28700	32200	36100	40300	44800	45900	51000	56000	61500	67000
FFAM-091Z-TFD	ZB66K5E-TFD		28700	32200	36100	40300	44800	45900	51000	56000	61500	67000
FFAM-101Z-TFC	ZB76K5E-TFC		32600	36600	41000	45700	51000	52000	57500	63000	69000	75500
FFAM-101Z-TFD	ZB76K5E-TFD		32600	36600	41000	45700	51000	52000	57500	63000	69000	75500

Data not available at time of printing. See Emerson.com/OPI for updated information

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.

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45											
110° Ambient																							
FFAM-008Z-CFV	ZB06KAE-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information																					
FFAM-008Z-TFC	ZB06KAE-TF5																						
FFAM-010Z-CFV	ZB07KAE-PFV																						
FFAM-010Z-TFC	ZB07KAE-TF5																						
FFAM-012Z-CFV	ZB08KAE-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information																					
FFAM-012Z-TFC	ZB08KAE-TF5																						
FFAP-015Z-TFC	ZS09KAE-TF5												3750	3420	3840	4290	4780	5300	5500	6090	6720	7390	8120
FPAK-010Z-CFV	ZS09KAE-PFV												Data not available at time of printing. See Emerson.com/OPI for updated information										
FPAK-010Z-TFC	ZS09KAE-TF5																						
FPAK-010Z-TFD	ZS09KAE-TFD																						
FFAP-017Z-TFC	ZS11KAE-TF5	4430	4150	4650	5180	5750	6370	6460	7140	7860	8640	9470											
FFAP-015Z-CFV	ZS09KAE-PFV	3750	4230	4740	5290	5880	6520	6690	7390	8150	8970	9840											
FFAP-015Z-TFD	ZS09KAE-TFD	3750	4230	4740	5290	5880	6520	6690	7390	8150	8970	9840											
FPAK-012Z-CFV	ZS11KAE-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information																					
FPAK-012Z-TFC	ZS11KAE-TF5																						
FPAK-012Z-TFD	ZS11KAE-TFD																						
FFAP-017Z-CFV	ZS11KAE-PFV												4430	4990	5590	6230	6920	7660	7860	8680	9560	10500	11500
FFAP-017Z-TFD	ZS11KAE-TFD	4430	4990	5590	6230	6920	7660	7860	8680	9560	10500	11500											
FFAP-018Z-CFV	ZS13KAE-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information																					
FFAP-020Z-CFV	ZS13KAE-PFV																						
FFAP-020Z-TFC	ZS13KAE-TF5												5750	6440	7180	7980	8840	9080	10000	11000	12100	13300	
FFAP-020Z-TFD	ZS13KAE-TFD												5750	6440	7180	7980	8840	9080	10000	11000	12100	13300	
FPAK-013Z-CFV	ZS15KAE-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information																					
FPAK-013Z-TFC	ZS15KAE-TF5																						
FPAK-013Z-TFD	ZS15KAE-TFD																						
FFAP-022Z-CFV	ZS19KAE-TF5												6840	7660	8540	9490	10500	10800	11900	13100	14400	15800	
FFAP-022Z-TFC	ZS15KAE-TF5	6840	7660	8540	9490	10500	10800	11900	13100	14400	15800												
FFAP-022Z-TFD	ZS15KAE-PFV	6840	7660	8540	9490	10500	10800	11900	13100	14400	15800												
FPAK-015Z-CFV	ZS19KAE-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information																					
FPAK-015Z-TFC	ZS19KAE-TF5																						
FPAK-015Z-TFD	ZS19KAE-TFD																						
FFAP-030Z-CFV	ZS19KAE-PFV												8340	9340	10400	11600	12800	13200	14500	16000	17600	19300	
FFAP-030Z-TFC	ZS15KAE-TFD	8340	9340	10400	11600	12800	13200	14500	16000	17600	19300												
FFAP-030Z-TFD	ZS19KAE-TFD	8340	9340	10400	11600	12800	13200	14500	16000	17600	19300												
FFAP-032Z-TFC	ZS21KAE-TF5	9230	8670	9670	10800	12000	13300	13600	15000	16500	18200	19900											
FPAK-020Z-CFV	ZS21KAE-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information																					
FPAK-020Z-TFC	ZS21KAE-TF5																						
FPAK-020Z-TFD	ZS21KAE-TFD																						
FFAP-032Z-CFV	ZS21KAE-PFV												9230	10400	11600	13000	14400	15900	16300	18000	19800	21800	23800
FFAP-032Z-TFD	ZS21KAE-TFD	9230	10400	11600	13000	14400	15900	16300	18000	19800	21800	23800											
FFAP-035Z-CFV	ZS26KAE-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information																					
FFAP-040Z-CFV	ZS26KAE-PFV																						
FFAP-040Z-TFC	ZS26KAE-TF5												10500	11900	13400	15000	16700	18600	19000	21100	23300	25700	28300
FFAP-040Z-TFD	ZS26KAE-TFD												10500	11900	13400	15000	16700	18600	19000	21100	23300	25700	28300
FPAK-039Z-CFV	ZS29KAE-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information																					
FPAK-039Z-TFC	ZS29KAE-TF5																						
FPAK-039Z-TFD	ZS29KAE-TFD																						
FFAP-042Z-CFV	ZS33KAE-PFV												12900	14600	16400	18400	20400	22700	23300	25800	28500	31300	34400
FFAP-042Z-TFC	ZS33KAE-TF5	12900	14600	16400	18400	20400	22700	23300	25800	28500	31300	34400											
FFAP-042Z-TFD	ZS33KAE-TFD	12900	14600	16400	18400	20400	22700	23300	25800	28500	31300	34400											
FFAP-050Z-CFV	ZS38K4E-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information																					
FFAP-050Z-TFC	ZS38K4E-TF5																						
FFAP-050Z-TFD	ZS38K4E-TFD																						
FFAP-050Z-TFE	ZS38K4E-TFE																						
FFAP-060Z-TFC	ZS45K4E-TF5	17400	19600	21900	24500	27200	30100	31000	34200	37600	41300	45200											
FFAP-060Z-TFD	ZS45K4E-TFD	17400	19600	21900	24500	27200	30100	31000	34200	37600	41300	45200											
FFAM-071Z-TFC	ZB48KCE-TF5	Data not available at time of printing. See Emerson.com/OPI for updated information																					
FFAM-071Z-TFD	ZB48KCE-TFD																						
FFAM-081Z-TFC	ZB57KCE-TF5																						
FFAM-081Z-TFD	ZB57KCE-TFD																						
FFAM-091Z-TFC	ZB66K5E-TFC	Data not available at time of printing. See Emerson.com/OPI for updated information																					
FFAM-091Z-TFD	ZB66K5E-TFD																						
FFAM-101Z-TFC	ZB76K5E-TFC																						
FFAM-101Z-TFD	ZB76K5E-TFD																						

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

R-22 Low Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25
90° Ambient															
FFAL-020Z-CFV	ZF08K4E-PFV	5,560	6,300	7,140	8,080	9,120	10,300	11,500	12,800	14,200	15,800	17,400	19,100	20,900	22,800
FFAL-020Z-TFC	ZF08K4E-TF5	5,560	6,300	7,140	8,080	9,120	10,300	11,500	12,800	14,200	15,800	17,400	19,100	20,900	22,800
FFAL-020Z-TFD	ZF08K4E-TFD	5,560	6,300	7,140	8,080	9,120	10,300	11,500	12,800	14,200	15,800	17,400	19,100	20,900	22,800
FFAL-022Z-CFV	ZF09K4E-PFV	6,280	7,170	8,120	9,150	10,300	11,500	12,800	14,200	15,700	17,300	19,000	20,800	22,800	24,900
FFAL-022Z-TFC	ZF09K4E-TF5	6,280	7,170	8,120	9,150	10,300	11,500	12,800	14,200	15,700	17,300	19,000	20,800	22,800	24,900
FFAL-022Z-TFD	ZF09K4E-TFD	6,280	7,170	8,120	9,150	10,300	11,500	12,800	14,200	15,700	17,300	19,000	20,800	22,800	24,900
FFAL-026Z-CFV	ZF11K4E-PFV	7,720	8,780	9,940	11,200	12,500	14,000	15,500	17,200	19,000	20,900	22,900	25,100	27,400	29,800
FFAL-026Z-TFC	ZF11K4E-TF5	7,720	8,780	9,940	11,200	12,500	14,000	15,500	17,200	19,000	20,900	22,900	25,100	27,400	29,800
FFAL-026Z-TFD	ZF11K4E-TFD	7,720	8,780	9,940	11,200	12,500	14,000	15,500	17,200	19,000	20,900	22,900	25,100	27,400	29,800
FFAL-030Z-CFV	ZF13K4E-PFV	8,910	10,100	11,400	12,800	14,400	16,000	17,800	19,700	21,800	24,000	26,300	28,700	31,300	34,000
FFAL-030Z-TFC	ZF13K4E-TF5	8,910	10,100	11,400	12,800	14,400	16,000	17,800	19,700	21,800	24,000	26,300	28,700	31,300	34,000
FFAL-030Z-TFD	ZF13K4E-TFD	8,910	10,100	11,400	12,800	14,400	16,000	17,800	19,700	21,800	24,000	26,300	28,700	31,300	34,000
FFAL-040Z-CFV	ZF15K4E-PFV	10,800	12,300	13,800	15,500	17,300	19,300	21,400	23,600	26,000	28,500	31,200	34,000	36,900	40,000
FFAL-040Z-TFC	ZF15K4E-TF5	10,800	12,300	13,800	15,500	17,300	19,300	21,400	23,600	26,000	28,500	31,200	34,000	36,900	40,000
FFAL-040Z-TFD	ZF15K4E-TFD	10,800	12,300	13,800	15,500	17,300	19,300	21,400	23,600	26,000	28,500	31,200	34,000	36,900	40,000
FFAL-050Z-TFC	ZF18K4E-TF5	12,500	14,200	16,000	17,900	20,100	22,300	24,800	27,300	30,100	32,900	36,000	39,200	42,500	45,900
FFAL-050Z-TFD	ZF18K4E-TFD	12,500	14,200	16,000	17,900	20,100	22,300	24,800	27,300	30,100	32,900	36,000	39,200	42,500	45,900
100° Ambient															
FFAL-020Z-CFV	ZF08K4E-PFV	5,370	6,080	6,880	7,770	8,750	9,830	11,000	12,200	13,600	15,000	16,500	18,200	19,800	21,600
FFAL-020Z-TFC	ZF08K4E-TF5	5,370	6,080	6,880	7,770	8,750	9,830	11,000	12,200	13,600	15,000	16,500	18,200	19,800	21,600
FFAL-020Z-TFD	ZF08K4E-TFD	5,370	6,080	6,880	7,770	8,750	9,830	11,000	12,200	13,600	15,000	16,500	18,200	19,800	21,600
FFAL-022Z-CFV	ZF09K4E-PFV	5,980	6,820	7,730	8,710	9,760	10,900	12,100	13,400	14,800	16,300	18,000	19,700	21,500	23,500
FFAL-022Z-TFC	ZF09K4E-TF5	5,980	6,820	7,730	8,710	9,760	10,900	12,100	13,400	14,800	16,300	18,000	19,700	21,500	23,500
FFAL-022Z-TFD	ZF09K4E-TFD	5,980	6,820	7,730	8,710	9,760	10,900	12,100	13,400	14,800	16,300	18,000	19,700	21,500	23,500
FFAL-026Z-CFV	ZF11K4E-PFV	7,310	8,320	9,400	10,600	11,800	13,200	14,700	16,200	17,900	19,700	21,600	23,600	25,800	28,000
FFAL-026Z-TFC	ZF11K4E-TF5	7,310	8,320	9,400	10,600	11,800	13,200	14,700	16,200	17,900	19,700	21,600	23,600	25,800	28,000
FFAL-026Z-TFD	ZF11K4E-TFD	7,310	8,320	9,400	10,600	11,800	13,200	14,700	16,200	17,900	19,700	21,600	23,600	25,800	28,000
FFAL-030Z-CFV	ZF13K4E-PFV	8,460	9,580	10,800	12,100	13,600	15,100	16,800	18,600	20,500	22,600	24,800	27,100	29,500	32,000
FFAL-030Z-TFC	ZF13K4E-TF5	8,460	9,580	10,800	12,100	13,600	15,100	16,800	18,600	20,500	22,600	24,800	27,100	29,500	32,000
FFAL-030Z-TFD	ZF13K4E-TFD	8,460	9,580	10,800	12,100	13,600	15,100	16,800	18,600	20,500	22,600	24,800	27,100	29,500	32,000
FFAL-040Z-CFV	ZF15K4E-PFV	10,300	11,600	13,100	14,600	16,400	18,200	20,200	22,200	24,500					
FFAL-040Z-TFC	ZF15K4E-TF5	10,300	11,600	13,100	14,600	16,400	18,200	20,200	22,200	24,500					
FFAL-040Z-TFD	ZF15K4E-TFD	10,300	11,600	13,100	14,600	16,400	18,200	20,200	22,200	24,500					
FFAL-050Z-TFC	ZF18K4E-TF5	11,800	13,400	15,100	16,900	18,900	21,000	23,300							
FFAL-050Z-TFD	ZF18K4E-TFD	11,800	13,400	15,100	16,900	18,900	21,000	23,300							
110° Ambient															
FFAL-020Z-CFV	ZF08K4E-PFV	5,160	5,830	6,580	7,410	8,330	9,330	10,400	11,600	12,800	14,100	15,500	17,000	18,600	20,200
FFAL-020Z-TFC	ZF08K4E-TF5	5,160	5,830	6,580	7,410	8,330	9,330	10,400	11,600	12,800	14,100	15,500	17,000	18,600	20,200
FFAL-020Z-TFD	ZF08K4E-TFD	5,160	5,830	6,580	7,410	8,330	9,330	10,400	11,600	12,800	14,100	15,500	17,000	18,600	20,200
FFAL-022Z-CFV	ZF09K4E-PFV	5,700	6,500	7,360	8,270	9,260	10,300	11,500	12,700	14,000	15,400	16,900	18,500	20,200	22,000
FFAL-022Z-TFC	ZF09K4E-TF5	5,700	6,500	7,360	8,270	9,260	10,300	11,500	12,700	14,000	15,400	16,900	18,500	20,200	22,000
FFAL-022Z-TFD	ZF09K4E-TFD	5,700	6,500	7,360	8,270	9,260	10,300	11,500	12,700	14,000	15,400	16,900	18,500	20,200	22,000
FFAL-026Z-CFV	ZF11K4E-PFV	6,930	7,870	8,870	9,960	11,100	12,400	13,700	15,200						
FFAL-026Z-TFC	ZF11K4E-TF5	6,930	7,870	8,870	9,960	11,100	12,400	13,700	15,200						
FFAL-026Z-TFD	ZF11K4E-TFD	6,930	7,870	8,870	9,960	11,100	12,400	13,700	15,200						
FFAL-030Z-CFV	ZF13K4E-PFV	7,960	9,010	10,100	11,400	12,700	14,200								
FFAL-030Z-TFC	ZF13K4E-TF5	7,960	9,010	10,100	11,400	12,700	14,200								
FFAL-030Z-TFD	ZF13K4E-TFD	7,960	9,010	10,100	11,400	12,700	14,200								
FFAL-040Z-CFV	ZF15K4E-PFV	9,640	10,900	12,200	13,700										
FFAL-040Z-TFC	ZF15K4E-TF5	9,640	10,900	12,200	13,700										
FFAL-040Z-TFD	ZF15K4E-TFD	9,640	10,900	12,200	13,700										
FFAL-050Z-TFC	ZF18K4E-TF5	11,000	12,500												
FFAL-050Z-TFD	ZF18K4E-TFD	11,000	12,500												

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

R-22 Medium Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
90° Ambient												
FFAP-015Z-CFV	ZS09KAE-PFV	6730	7630	8530	9450	10400	11400	11400	12400	13600	14800	16100
FFAP-015Z-TFC	ZS09KAE-TF5	6730	7630	8530	9450	10400	11400	11400	12400	13600	14800	16100
FFAP-015Z-TFD	ZS09KAE-TFD	6730	7630	8530	9450	10400	11400	11400	12400	13600	14800	16100
FFAP-017Z-CFV	ZS11KAE-PFV		8830	9860	10900	12000	13100	13100	14300	15600	17000	18400
FFAP-017Z-TFC	ZS11KAE-TF5		8830	9860	10900	12000	13100	13100	14300	15600	17000	18400
FFAP-017Z-TFD	ZS11KAE-TFD		8830	9860	10900	12000	13100	13100	14300	15600	17000	18400
FFAP-018Z-CFV	ZS13KAE-PFV		9860	11000	12200	13500	14700	14700	16000	17400	18900	20700
FFAP-020Z-CFV	ZS13KAE-PFV	8900	10100	11300	12500	13800	15200	15200	16600	18100	19700	21400
FFAP-020Z-TFC	ZS13KAE-TF5	8900	10100	11300	12500	13800	15200	15200	16600	18100	19700	21400
FFAP-020Z-TFD	ZS13KAE-TFD	8900	10100	11300	12500	13800	15200	15200	16600	18100	19700	21400
FFAP-022Z-CFV	ZS15KAE-PFV	10400	11900	13300	14700	16200	17800	17800	19400	21100	23000	25200
FFAP-022Z-TFC	ZS15KAE-TF5	10400	11900	13300	14700	16200	17800	17800	19400	21100	23000	25200
FFAP-022Z-TFD	ZS15KAE-TFD	10400	11900	13300	14700	16200	17800	17800	19400	21100	23000	25200
FFAP-030Z-CFV	ZS19KAE-PFV	12300	13900	15500	17200	19000	20800	20800	22700	24800	27000	29400
FFAP-030Z-TFD	ZS19KAE-TFD	12300	13900	15500	17200	19000	20800	20800	22700	24800	27000	29400
FFAP-030Z-TFC	ZS19KAE-TF5	12200	13900	15500	17200	19000	20900	20900	22900	25000	27300	29700
FFAP-032Z-CFV	ZS21KAE-PFV	15900	18100	20200	22400	24700	27100	27000	29500	32200	34900	38400
FFAP-032Z-TFD	ZS21KAE-TFD	15900	18100	20200	22400	24700	27100	27000	29500	32200	34900	38400
FFAP-032Z-TFC	ZS21KAE-TF5	16000	18100	20300	22500	24800	27200	27200	29800	32400	35200	38200
FFAP-035Z-CFV	ZS26KAE-PFV	17400	19800	22200	24600	27100	29600	29600	32300	35100	38100	41800
FFAP-035Z-TFC	ZS26KAE-TF5	17500	19900	22200	24600	27100	29700	29800	32500	35400	38400	41700
FFAP-040Z-CFV	ZS26KAE-PFV	18600	21100	23700	26300	29000	31900	31700	34800	38100	41600	45400
FFAP-040Z-TFD	ZS26KAE-TFD	18600	21100	23700	26300	29000	31900	31700	34800	38100	41600	45400
FFAP-040Z-TFC	ZS26KAE-TF5	18600	21100	23600	26300	29000	32000	32000	35100	38400	41900	45600
FFAP-042Z-CFV	ZS33KAE-PFV	22800	25900	28900	32100	35400	38800	38700	42400	46400	50500	55000
FFAP-042Z-TFD	ZS33KAE-TFD	22800	25900	28900	32100	35400	38800	38700	42400	46400	50500	55000
FFAP-042Z-TFC	ZS33KAE-TF5	22800	25800	28900	32100	35400	38900	39000	42700	46600	51000	55000
FFAP-050Z-CFV	ZS38K4E-PFV			32400	35700	39300	43100	43100	47100	51500	55500	60500
FFAP-050Z-TFC	ZS38K4E-TF5			32400	35700	39300	43100	43100	47100	51500	55500	60500
FFAP-050Z-TFD	ZS38K4E-TFD			32400	35700	39300	43100	43100	47100	51500	55500	60500
FFAP-050Z-TFE	ZS38K4E-TFE			32400	35700	39300	43100	43100	47100	51500	55500	60500
FFAP-060Z-TFC	ZS45K4E-TF5				42200	46300	50500	51000	55500	60000	65500	70500
FFAP-060Z-TFD	ZS45K4E-TFD							51000	55500	60500	66000	71500
FFAM-071Z-TFC	ZB48KCE-TF5			41600	46300	51500	56500	56500	62000	68000	74500	81000
FFAM-071Z-TFD	ZB48KCE-TFD			41600	46300	51500	56500	56500	62000	68000	74500	81000
FFAM-081Z-TFC	ZB57KCE-TF5				53000	58500	64500	64500	70500	77000	83500	90500
FFAM-081Z-TFD	ZB57KCE-TFD				53000	58500	64500	64500	70500	77000	83500	90500
FFAM-091Z-TFC	ZB66K5E-TFC					66000	72500	73000	80000	87000	94500	102000
FFAM-091Z-TFD	ZB66K5E-TFD					66000	72500	73000	80000	87000	94500	102000
FFAM-101Z-TFC	ZB76K5E-TFC						83500	84000	91500	99500	107000	116000
FFAM-101Z-TFD	ZB76K5E-TFD						83500	84000	91500	99500	107000	116000

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

R-22 Medium Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
100° Ambient												
FFAP-015Z-CFV	ZS09KAE-PFV		7140	8010	8900	9800	10700	10800	11800	12900	14000	15200
FFAP-015Z-TFC	ZS09KAE-TF5		7140	8010	8900	9800	10700	10800	11800	12900	14000	15200
FFAP-015Z-TFD	ZS09KAE-TFD		7140	8010	8900	9800	10700	10800	11800	12900	14000	15200
FFAP-017Z-CFV	ZS11KAE-PFV			9250	10300	11300	12400	12400	13600	14800	16100	17500
FFAP-017Z-TFD	ZS11KAE-TFD			9250	10300	11300	12400	12400	13600	14800	16100	17500
FFAP-017Z-TFC	ZS11KAE-TF5			9300	10300	11400	12500	12600	13800	15000	16300	17700
FFAP-018Z-CFV	ZS13KAE-PFV				11500	12600	13900	13900	15100	16500	17900	19600
FFAP-020Z-CFV	ZS13KAE-PFV			10600	11800	13000	14300	14400	15800	17200	18700	20300
FFAP-020Z-TFC	ZS13KAE-TF5			10600	11800	13000	14300	14400	15800	17200	18700	20300
FFAP-020Z-TFD	ZS13KAE-TFD			10600	11800	13000	14300	14400	15800	17200	18700	20300
FFAP-022Z-CFV	ZS15KAE-PFV			12500	13900	15300	16800	16800	18400	20000	21800	23900
FFAP-022Z-TFC	ZS15KAE-TF5			12500	13900	15300	16800	16800	18400	20000	21800	23900
FFAP-022Z-TFD	ZS15KAE-TFD			12500	13900	15300	16800	16800	18400	20000	21800	23900
FFAP-030Z-CFV	ZS19KAE-PFV		13000	14600	16200	17900	19600	19700	21500	23500	25600	27900
FFAP-030Z-TFD	ZS19KAE-TFD		13000	14600	16200	17900	19600	19700	21500	23500	25600	27900
FFAP-030Z-TFC	ZS19KAE-TF5		13000	14600	16200	18000	19700	19800	21700	23700	25800	28100
FFAP-032Z-CFV	ZS21KAE-PFV			18900	21100	23300	25500	25500	27900	30400	33000	36300
FFAP-032Z-TFD	ZS21KAE-TFD			18900	21100	23300	25500	25500	27900	30400	33000	36300
FFAP-032Z-TFC	ZS21KAE-TF5			19000	21100	23300	25600	25700	28100	30700	33300	36200
FFAP-035Z-CFV	ZS26KAE-PFV			20700	23100	25400	27900	27900	30500	33200	36100	39600
FFAP-035Z-TFC	ZS26KAE-TF5			20800	23100	25500	28000	28200	30700	33500	36400	39400
FFAP-040Z-CFV	ZS26KAE-PFV		19900	22300	24800	27400	30100	30100	33100	36200	39600	43200
FFAP-040Z-TFD	ZS26KAE-TFD		19900	22300	24800	27400	30100	30100	33100	36200	39600	43200
FFAP-040Z-TFC	ZS26KAE-TF5		19800	22300	24900	27500	30300	30400	33300	36400	39800	43400
FFAP-042Z-CFV	ZS33KAE-PFV		24300	27300	30300	33400	36700	36800	40300	44000	48000	52500
FFAP-042Z-TFD	ZS33KAE-TFD		24300	27300	30300	33400	36700	36800	40300	44000	48000	52500
FFAP-042Z-TFC	ZS33KAE-TF5		24200	27200	30300	33500	36900	37000	40500	44300	48200	52500
FFAP-050Z-CFV	ZS38K4E-PFV			30800	33900	37200	40800	40900	44700	48700	53000	57500
FFAP-050Z-TFC	ZS38K4E-TF5			30800	33900	37200	40800	40900	44700	48700	53000	57500
FFAP-050Z-TFD	ZS38K4E-TFD			30800	33900	37200	40800	40900	44700	48700	53000	57500
FFAP-050Z-TFE	ZS38K4E-TFE			30800	33900	37200	40800	40900	44700	48700	53000	57500
FFAP-060Z-TFC	ZS45K4E-TF5						47900	48100	52500	57000	62000	67000
FFAP-060Z-TFD	ZS45K4E-TFD						47900	48100	52500	57000	62000	67000
FFAM-071Z-TFC	ZB48KCE-TF5					48000	53000	53000	58500	64000	70000	76500
FFAM-071Z-TFD	ZB48KCE-TFD					48000	53000	53000	58500	64000	70000	76500
FFAM-081Z-TFC	ZB57KCE-TF5						60500	60500	66500	72500	79000	85500
FFAM-081Z-TFD	ZB57KCE-TFD						60500	60500	66500	72500	79000	85500
FFAM-091Z-TFC	ZB66K5E-TFC								75000	82000	89000	96500
FFAM-091Z-TFD	ZB66K5E-TFD								75000	82000	89000	96500
FFAM-101Z-TFC	ZB76K5E-TFC									93000	101000	109000
FFAM-101Z-TFD	ZB76K5E-TFD									93000	101000	109000

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

R-22 Medium Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
110° Ambient												
FFAP-015Z-CFV	ZS09KAE-PFV				8330	9190	10100	10300	11300	12300	13400	14600
FFAP-015Z-TFC	ZS09KAE-TF5				8330	9190	10100	10300	11300	12300	13400	14600
FFAP-015Z-TFD	ZS09KAE-TFD				8330	9190	10100	10300	11300	12300	13400	14600
FFAP-017Z-CFV	ZS11KAE-PFV					10700	11700	11900	13000	14100	15400	16700
FFAP-017Z-TFC	ZS11KAE-TF5					10700	11700	11900	13000	14100	15400	16700
FFAP-017Z-TFD	ZS11KAE-TFD					10700	11700	11900	13000	14100	15400	16700
FFAP-018Z-CFV	ZS13KAE-PFV						13000	13000	14300	15500	16900	18500
FFAP-020Z-CFV	ZS13KAE-PFV					12200	13400	13600	14900	16300	17700	19200
FFAP-020Z-TFC	ZS13KAE-TF5					12200	13400	13600	14900	16300	17700	19200
FFAP-020Z-TFD	ZS13KAE-TFD					12200	13400	13600	14900	16300	17700	19200
FFAP-022Z-CFV	ZS15KAE-PFV					14400	15800	15800	17300	18900	20600	22600
FFAP-022Z-TFC	ZS15KAE-TF5					14400	15800	15800	17300	18900	20600	22600
FFAP-022Z-TFD	ZS15KAE-TFD					14400	15800	15800	17300	18900	20600	22600
FFAP-030Z-CFV	ZS19KAE-PFV				15200	16800	18500	18700	20400	22300	24300	26500
FFAP-030Z-TFC	ZS19KAE-TF5				15200	16800	18500	18700	20400	22300	24300	26500
FFAP-030Z-TFD	ZS19KAE-TFD				15200	16800	18500	18700	20400	22300	24300	26500
FFAP-032Z-TFC	ZS21KAE-TF5					21800	24000	20000	21900	23900	26000	28600
FFAP-032Z-TFD	ZS21KAE-TFD					21800	24000	24000	26300	28700	31200	34300
FFAP-032Z-CFV	ZS21KAE-PFV					21800	24000	24200	26500	28900	31400	34100
FFAP-035Z-CFV	ZS26KAE-PFV					23800	26200	26300	28700	31300	34000	37400
FFAP-035Z-TFC	ZS26KAE-TF5						26200	26500	28900	31600	34300	37300
FFAP-040Z-CFV	ZS26KAE-PFV			20900	23300	25800	28400	28500	31300	34300	37500	40900
FFAP-040Z-TFD	ZS26KAE-TFD			20900	23300	25800	28400	28500	31300	34300	37500	40900
FFAP-040Z-TFC	ZS26KAE-TF5			20900	23300	25900	28500	28700	31500	34500	37600	41000
FFAP-042Z-CFV	ZS33KAE-PFV				28400	31500	34700	34900	38300	41800	45600	49600
FFAP-042Z-TFC	ZS33KAE-TF5				28400	31500	34700	34900	38300	41800	45600	49600
FFAP-042Z-TFD	ZS33KAE-TFD				28400	31500	34700	34900	38300	41800	45600	49600
FFAP-050Z-CFV	ZS38K4E-PFV					35100	38400	38600	42200	45900	49900	54000
FFAP-050Z-TFC	ZS38K4E-TF5					35100	38400	38600	42200	45900	49900	54000
FFAP-050Z-TFD	ZS38K4E-TFD					35100	38400	38600	42200	45900	49900	54000
FFAP-050Z-TFE	ZS38K4E-TFE					35100	38400	38600	42200	45900	49900	54000
FFAP-060Z-TFC	ZS45K4E-TF5							45400	49900	53500	58500	63000
FFAP-060Z-TFD	ZS45K4E-TFD							45400	49900	53500	58500	63000
FFAM-071Z-TFC	ZB48KCE-TF5								54500	60000	65500	71500
FFAM-071Z-TFD	ZB48KCE-TFD								54500	60000	65500	71500
FFAM-081Z-TFC	ZB57KCE-TF5									68000	74000	80500
FFAM-081Z-TFD	ZB57KCE-TFD									68000	74000	80500
FFAM-091Z-TFC	ZB66K5E-TFC										83500	91000
FFAM-091Z-TFD	ZB66K5E-TFD										83500	91000

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

R-404A EMT/Low Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25
90° Ambient															
FFAL-010Z-CFV	ZF03KAE-PFV	2060	2300	2570	2890	3250	3650	4110	4630	5210	5850	6570			
FFAL-010Z-TFC	ZF03KAE-TF5	2060	2300	2580	2890	3250	3650	4110	4630	5210	5860	6570			
FPAK-010Z-CFV	ZS09KAE-PFV			3410	3830	4290	4770	5290	5840	6410					
FPAK-010Z-TFC	ZS09KAE-TF5			3410	3830	4290	4770	5290	5840	6410					
FPAK-010Z-TFD	ZS09KAE-TFD			3410	3830	4290	4770	5290	5840	6410					
FFAL-013Z-CFV	ZF04KAE-PFV	2650	2970	3360	3810	4330	4910	5560	6260	7010	7830	8690			
FFAL-013Z-TFC	ZF04KAE-TF5	2650	2970	3360	3810	4330	4910	5560	6260	7020	7830	8690			
FFAP-015Z-CFV	ZS09KAE-PFV			3520	3980	4470	5010	5600	6230	6900	7660	8460	9320	10200	11200
FFAP-015Z-TFC	ZS09KAE-TF5			3520	3980	4470	5010	5600	6230	6900	7660	8460	9320	10200	11200
FFAP-015Z-TFD	ZS09KAE-TFD			3520	3980	4470	5010	5600	6230	6900	7660	8460	9320	10200	11200
FPAK-012Z-CFV	ZS11KAE-PFV			3950	4430	4940	5490	6060	6670	7290					
FPAK-012Z-TFC	ZS11KAE-TF5			3950	4430	4940	5490	6060	6670	7290					
FPAK-012Z-TFD	ZS11KAE-TFD			3950	4430	4940	5490	6060	6670	7290					
FFAP-017Z-CFV	ZS11KAE-PFV			4100	4630	5200	5820	6490	7210	7970	8830	9730	10700	11700	12800
FFAP-017Z-TFC	ZS11KAE-TF5			4100	4630	5200	5820	6490	7210	7970	8830	9730	10700	11700	12800
FFAP-017Z-TFD	ZS11KAE-TFD			4100	4630	5200	5820	6490	7210	7970	8830	9730	10700	11700	12800
FFAL-014Z-TFC	ZF05KAE-TF5	3170	3600	4090	4650	5260	5930	6650	7430	8250	9120	10000			
FFAL-014Z-CFV	ZF05KAE-PFV	3170	3600	4090	4650	5270	5930	6660	7430	8250	9110	10000			
FFAP-018Z-CFV	ZS13KAE-PFV			4720	5310	5960	6650	7400	8200	9040	9980	11000	12000	13100	14300
FFAP-020Z-CFV	ZS13KAE-PFV			4790	5400	6070	6800	7590	8440	9340	10400	11400	12600	13800	15100
FFAP-020Z-TFC	ZS13KAE-TF5			4790	5400	6070	6800	7590	8440	9340	10400	11400	12600	13800	15100
FFAP-020Z-TFD	ZS13KAE-TFD			4790	5400	6070	6800	7590	8440	9340	10400	11400	12600	13800	15100
FPAK-013Z-CFV	ZS15KAE-PFV			5680	6390	7150	7970	8850	9780	10800					
FPAK-013Z-TFC	ZS15KAE-TF5			5680	6390	7150	7970	8850	9780	10800					
FPAK-013Z-TFD	ZS15KAE-TFD			5680	6390	7150	7970	8850	9780	10800					
FFAP-022Z-CFV	ZS15KAE-PFV			6470	7270	8140	9080	10100	11200	12300	13600	15000	16400	17900	
FFAP-022Z-TFC	ZS15KAE-TF5			6470	7270	8140	9080	10100	11200	12300	13600	15000	16400	17900	
FFAP-022Z-TFD	ZS15KAE-TFD			6470	7270	8140	9080	10100	11200	12300	13600	15000	16400	17900	
FFAL-015Z-TFC	ZF06K4E-TF5	4570	5240	5930	6660	7440	8250	9100	10000	11000	11900	13000	14100	15200	16400
FFAL-015Z-TFD	ZF06K4E-TFD	4570	5240	5930	6660	7440	8250	9100	10000	11000	11900	13000	14100	15200	16400
FFAL-015Z-CFV	ZF06K4E-PFV	4640	5320	6030	6770	7550	8370	9240	10100	11100	12100	13200	14200	15400	16500
FPAK-015Z-CFV	ZS19KAE-PFV			6310	7090	7930	8810	9760	10800	11800					
FPAK-015Z-TFC	ZS19KAE-TF5			6310	7090	7930	8810	9760	10800	11800					
FPAK-015Z-TFD	ZS19KAE-TFD			6310	7090	7930	8810	9760	10800	11800					
FFAL-017Z-CFV	ZF07KAE-PFV	4750	5530	6330	7160	8020	8930	9900	10900	12100	13300	14600			
FFAL-017Z-TFC	ZF07KAE-TF5	4750	5540	6340	7160	8030	8940	9910	11000	12100	13300	14600			
FFAP-030Z-CFV	ZS19KAE-PFV				7370	8300	9310	10400	11600	12900	14300	15900	17500	19300	21200
FFAP-030Z-TFC	ZS19KAE-TF5				7370	8300	9310	10400	11600	12900	14300	15900	17500	19300	21200
FFAP-030Z-TFD	ZS19KAE-TFD				7370	8300	9310	10400	11600	12900	14300	15900	17500	19300	21200
FFAL-020Z-TFC	ZF08K4E-TF5	5890	6690	7560	8500	9510	10600	11800	13000	14400	15800	17300	18900	20600	22400
FFAL-020Z-TFD	ZF08K4E-TFD	5890	6690	7560	8500	9510	10600	11800	13000	14400	15800	17300	18900	20600	22400
FFAL-020Z-CFV	ZF08K4E-PFV	5990	6810	7690	8640	9670	10800	12000	13200	14600	16000	17600	19200	20900	22700
FFAL-022Z-TFC	ZF09K4E-TF5	6530	7440	8400	9430	10500	11700	13000	14300	15800	17300	18900	20700	22500	24400
FFAL-022Z-TFD	ZF09K4E-TFD	6530	7440	8400	9430	10500	11700	13000	14300	15800	17300	18900	20700	22500	24400
FFAL-022Z-CFV	ZF09K4E-PFV	6650	7570	8540	9590	10700	11900	13200	14500	16000	17600	19200	21000	22800	24700
FPAK-020Z-CFV	ZS21KAE-PFV			8520	9580	10700	12000	13300	14700	16100					
FPAK-020Z-TFC	ZS21KAE-TF5			8520	9580	10700	12000	13300	14700	16100					
FPAK-020Z-TFD	ZS21KAE-TFD			8520	9580	10700	12000	13300	14700	16100					
FFAP-032Z-CFV	ZS21KAE-PFV			8610	9720	10900	12200	13600	15100	16700	18500	20400	22400	24600	26900
FFAP-032Z-TFC	ZS21KAE-TF5			8610	9720	10900	12200	13600	15100	16700	18500	20400	22400	24600	26900
FFAP-032Z-TFD	ZS21KAE-TFD			8610	9720	10900	12200	13600	15100	16700	18500	20400	22400	24600	26900
FFAP-035Z-CFV	ZS26KAE-PFV			9550	10800	12000	13400	14900	16500	18200	20100	22000	24100	26300	28700
FFAP-035Z-TFC	ZS26KAE-TF5			9550	10800	12000	13400	14900	16500	18200	20100	22000	24100	26300	28700
FFAP-040Z-CFV	ZS26KAE-PFV			9810	11100	12500	14100	15700	17600	19600	21800	24200	26700	29500	32500
FFAP-040Z-TFC	ZS26KAE-TF5			9810	11100	12500	14100	15700	17600	19600	21800	24200	26700	29500	32500
FFAP-040Z-TFD	ZS26KAE-TFD			9810	11100	12500	14100	15700	17600	19600	21800	24200	26700	29500	32500
FFAL-026Z-TFC	ZF11K4E-TF5	8040	9130	10300	11500	12900	14300	15800	17500	19200	21000	22900	24900	27000	29200
FFAL-026Z-TFD	ZF11K4E-TFD	8040	9130	10300	11500	12900	14300	15800	17500	19200	21000	22900	24900	27000	29200
FFAL-026Z-CFV	ZF11K4E-PFV	8180	9290	10500	11700	13100	14500	16100	17700	19500	21300	23200	25200	27300	29500
FPAK-039Z-CFV	ZS29KAE-PFV			10800	12100	13600	15200	16900	18700	20500					
FPAK-039Z-TFC	ZS29KAE-TF5			10800	12100	13600	15200	16900	18700	20500					
FPAK-039Z-TFD	ZS29KAE-TFD			10800	12100	13600	15200	16900	18700	20500					

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

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

R-404A EMT/Low Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25
FFAL-030Z-TFC	ZF13K4E-TF5	8860	10100	11500	12900	14400	16100	17800	19600	21500	23600	25700	27900	30100	32500
FFAL-030Z-TFD	ZF13K4E-TFD	8860	10100	11500	12900	14400	16100	17800	19600	21500	23600	25700	27900	30100	32500
FFAL-030Z-CFV	ZF13K4E-PFV	8880	10200	11500	13000	14600	16300	18100	20000	22000	24100	26200	28400	30600	32900
FFAP-042Z-CFV	ZS33KAE-PFV			12200	13800	15500	17400	19500	21700	24200	26800	29700	32800	36100	39600
FFAP-042Z-TFC	ZS33KAE-TF5			12200	13800	15500	17400	19500	21700	24200	26800	29700	32800	36100	39600
FFAP-042Z-TFD	ZS33KAE-TFD			12200	13800	15500	17400	19500	21700	24200	26800	29700	32800	36100	39600
FFAL-040Z-TFC	ZF15K4E-TF5	11100	12600	14100	15700	17500	19300	21300	23300	25400	27700	29900	32300	34700	37200
FFAL-040Z-TFD	ZF15K4E-TFD	11100	12600	14100	15700	17500	19300	21300	23300	25400	27700	29900	32300	34700	37200
FFAL-040Z-CFV	ZF15K4E-PFV	11300	12800	14300	16000	17700	19600	21500	23600	25700	27900	30200	32600	35000	37400
FFAP-050Z-CFV	ZS38K4E-PFV			14600	16400	18400	20500	22700	25100	27700	30500	33400	36500	39800	43200
FFAP-050Z-TFC	ZS38K4E-TF5			14600	16400	18400	20500	22700	25100	27700	30500	33400	36500	39800	43200
FFAP-050Z-TFD	ZS38K4E-TFD			14600	16400	18400	20500	22700	25100	27700	30500	33400	36500	39800	43200
FFAP-050Z-TFE	ZS38K4E-TFE			14600	16400	18400	20500	22700	25100	27700	30500	33400	36500	39800	43200
FFAL-050Z-TFC	ZF18K4E-TF5	13200	15000	16800	18700	20700	22700	24900	27100	29400	31700	34200	36600	39100	41700
FFAL-050Z-TFD	ZF18K4E-TFD	13200	15000	16800	18700	20700	22700	24900	27100	29400	31700	34200	36600	39100	41700
FFAP-060Z-TFC	ZS45K4E-TF5				20000	22300	24700	27400	30100	33100	36200	39500	43000	46700	50500
FFAP-060Z-TFD	ZS45K4E-TFD				20000	22300	24700	27400	30100	33100	36200	39500	43000	46700	50500
100° Ambient															
FFAL-010Z-CFV	ZF03KAE-PFV	1920	2130	2370	2650	2970	3330	3750	4210	4740	5330	5980			
FFAL-010Z-TFC	ZF03KAE-TF5	1920	2130	2370	2650	2970	3330	3750	4220	4740	5330	5990			
FPAK-010Z-CFV	ZS09KAE-PFV				3560	3960	4390	4850	5340	5830					
FPAK-010Z-TFC	ZS09KAE-TF5				3560	3960	4390	4850	5340	5830					
FPAK-010Z-TFD	ZS09KAE-TFD				3560	3960	4390	4850	5340	5830					
FFAL-013Z-CFV	ZF04KAE-PFV	2440	2710	3060	3470	3940	4470	5060	5710	6420	7170	7980			
FFAL-013Z-TFC	ZF04KAE-TF5	2440	2720	3060	3470	3940	4470	5060	5710	6420	7180	7980			
FFAP-015Z-CFV	ZS09KAE-PFV				3710	4160	4650	5180	5750	6350	7040	7760	8530	9370	10300
FFAP-015Z-TFC	ZS09KAE-TF5				3710	4160	4650	5180	5750	6350	7040	7760	8530	9370	10300
FFAP-015Z-TFD	ZS09KAE-TFD				3710	4160	4650	5180	5750	6350	7040	7760	8530	9370	10300
FPAK-012Z-CFV	ZS11KAE-PFV				4100	4560	5030	5540	6070	6600					
FPAK-012Z-TFC	ZS11KAE-TF5				4100	4560	5030	5540	6070	6600					
FPAK-012Z-TFD	ZS11KAE-TFD				4100	4560	5030	5540	6070	6600					
FFAP-017Z-CFV	ZS11KAE-PFV				4310	4830	5390	5990	6640	7320	8090	8900	9770	10700	11700
FFAP-017Z-TFC	ZS11KAE-TF5				4310	4830	5390	5990	6640	7320	8090	8900	9770	10700	11700
FFAP-017Z-TFD	ZS11KAE-TFD				4310	4830	5390	5990	6640	7320	8090	8900	9770	10700	11700
FFAL-014Z-CFV	ZF05KAE-PFV	2900	3290	3740	4250	4810	5430	6090	6810	7570	8370	9210			
FFAL-014Z-TFC	ZF05KAE-TF5	2890	3280	3730	4240	4810	5420	6090	6810	7570	8370	9210			
FFAP-018Z-CFV	ZS13KAE-PFV				4950	5530	6150	6820	7540	8270	9120	10000	10900	11900	13000
FFAP-020Z-CFV	ZS13KAE-PFV				5040	5650	6300	7010	7780	8590	9500	10500	11500	12600	13800
FFAP-020Z-TFC	ZS13KAE-TF5				5040	5650	6300	7010	7780	8590	9500	10500	11500	12600	13800
FFAP-020Z-TFD	ZS13KAE-TFD				5040	5650	6300	7010	7780	8590	9500	10500	11500	12600	13800
FPAK-013Z-CFV	ZS15KAE-PFV				5940	6630	7360	8140	8970	9820					
FPAK-013Z-TFC	ZS15KAE-TF5				5940	6630	7360	8140	8970	9820					
FPAK-013Z-TFD	ZS15KAE-TFD				5940	6630	7360	8140	8970	9820					
FFAL-015Z-TFC	ZF06K4E-TF5	4160	4800	5460	6140	6850	7600	8380	9200	10100	11000	11900	12800	13800	14800
FFAL-015Z-TFD	ZF06K4E-TFD	4160	4800	5460	6140	6850	7600	8380	9200	10100	11000	11900	12800	13800	14800
FFAP-022Z-CFV	ZS15KAE-PFV				6040	6760	7540	8390	9300	10300	11300	12500	13700	15000	16400
FFAP-022Z-TFC	ZS15KAE-TF5				6040	6760	7540	8390	9300	10300	11300	12500	13700	15000	16400
FFAP-022Z-TFD	ZS15KAE-TFD				6040	6760	7540	8390	9300	10300	11300	12500	13700	15000	16400
FFAL-015Z-CFV	ZF06K4E-PFV	4230	4880	5550	6240	6960	7710	8500	9330	10200	11100	12000	13000	13900	14900
FPAK-015Z-CFV	ZS19KAE-PFV				6580	7330	8120	8960	9850	10800					
FPAK-015Z-TFC	ZS19KAE-TF5				6580	7330	8120	8960	9850	10800					
FPAK-015Z-TFD	ZS19KAE-TFD				6580	7330	8120	8960	9850	10800					
FFAL-017Z-CFV	ZF07KAE-PFV	4320	5060	5800	6560	7350	8170	9050	9990	11000	12100	13200			
FFAL-017Z-TFC	ZF07KAE-TF5	4320	5060	5800	6560	7350	8180	9060	10000	11000	12100	13200			
FFAP-030Z-CFV	ZS19KAE-PFV				6890	7730	8640	9630	10700	11900	13100	14500	15900	17500	19200
FFAP-030Z-TFC	ZS19KAE-TF5				6890	7730	8640	9630	10700	11900	13100	14500	15900	17500	19200
FFAP-030Z-TFD	ZS19KAE-TFD				6890	7730	8640	9630	10700	11900	13100	14500	15900	17500	19200
FFAL-020Z-TFC	ZF08K4E-TF5	5440	6180	6980	7830	8750	9730	10800	11900	13100	14400	15700	17100	18600	20200
FFAL-020Z-TFD	ZF08K4E-TFD	5440	6180	6980	7830	8750	9730	10800	11900	13100	14400	15700	17100	18600	20200
FFAL-020Z-CFV	ZF08K4E-PFV	5530	6290	7100	7960	8890	9890	10900	12100	13300	14600	15900	17400	18900	20500
FFAL-022Z-TFC	ZF09K4E-TF5	6050	6880	7760	8690	9690	10700	11900	13100	14400	15700	17200	18700	20300	22000
FFAL-022Z-TFD	ZF09K4E-TFD	6050	6880	7760	8690	9690	10700	11900	13100	14400	15700	17200	18700	20300	22000

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

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

R-404A EMT/Low Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25
FFAL-022Z-CFV	ZF09K4E-PFV	6150	7000	7890	8830	9840	10900	12100	13300	14600	15900	17400	18900	20600	22300
FFAL-022Z-TFC	ZS21KAE-PFV				8910	9940	11000	12200	13400	14700					
FFAL-022Z-TFD	ZS21KAE-TF5				8910	9940	11000	12200	13400	14700					
FFAP-032Z-CFV	ZS21KAE-PFV				9050	10100	11300	12600	13900	15300	17000	18700	20500	22400	24500
FFAP-032Z-TFC	ZS21KAE-TF5				9050	10100	11300	12600	13900	15300	17000	18700	20500	22400	24500
FFAP-032Z-TFD	ZS21KAE-TFD				9050	10100	11300	12600	13900	15300	17000	18700	20500	22400	24500
FFAP-035Z-CFV	ZS26KAE-PFV				10000	11200	12400	13700	15200	16600	18300	20000	21900	23800	25900
FFAP-035Z-TFC	ZS26KAE-TF5				10000	11200	12400	13700	15200	16600	18300	20000	21900	23800	25900
FFAL-026Z-TFC	ZF11K4E-TF5	7450	8440	9490	10600	11800	13100	14400	15900	17400	19000	20700	22400	24300	26200
FFAL-026Z-TFD	ZF11K4E-TFD	7450	8440	9490	10600	11800	13100	14400	15900	17400	19000	20700	22400	24300	26200
FFAL-026Z-CFV	ZF11K4E-PFV	7570	8570	9640	10800	12000	13300	14600	16100	17600	19200	20900	22700	24500	26500
FFAP-040Z-CFV	ZS26KAE-PFV			9190	10400	11700	13100	14600	16300	18100	20100	22300	24600	27100	29900
FFAP-040Z-TFC	ZS26KAE-TF5			9190	10400	11700	13100	14600	16300	18100	20100	22300	24600	27100	29900
FFAP-040Z-TFD	ZS26KAE-TFD			9190	10400	11700	13100	14600	16300	18100	20100	22300	24600	27100	29900
FFAL-039Z-CFV	ZS29KAE-PFV				11300	12600	14000	15500	17200	18800					
FFAL-039Z-TFC	ZS29KAE-TF5				11300	12600	14000	15500	17200	18800					
FFAL-039Z-TFD	ZS29KAE-TFD				11300	12600	14000	15500	17200	18800					
FFAL-030Z-TFC	ZF13K4E-TF5	8220	9300	10500	11700	13100	14500	16000	17600	19300	21100	23000	25000	27000	29100
FFAL-030Z-TFD	ZF13K4E-TFD	8220	9300	10500	11700	13100	14500	16000	17600	19300	21100	23000	25000	27000	29100
FFAL-030Z-CFV	ZF13K4E-PFV	8080	9250	10500	11800	13300	14800	16400	18100	19800	21600	23500	25400	27400	29400
FFAP-042Z-CFV	ZS33KAE-PFV			11400	12900	14500	16200	18100	20100	22300	24700	27300	30100	33100	36400
FFAP-042Z-TFC	ZS33KAE-TF5			11400	12900	14500	16200	18100	20100	22300	24700	27300	30100	33100	36400
FFAP-042Z-TFD	ZS33KAE-TFD			11400	12900	14500	16200	18100	20100	22300	24700	27300	30100	33100	36400
FFAL-040Z-TFC	ZF15K4E-TF5	10200	11500	12800	14300	15800	17400	19100	20900	22700	24700	26700	28700	30900	33100
FFAL-040Z-TFD	ZF15K4E-TFD	10200	11500	12800	14300	15800	17400	19100	20900	22700	24700	26700	28700	30900	33100
FFAL-040Z-CFV	ZF15K4E-PFV	10300	11600	13000	14500	16000	17600	19300	21100	23000	24900	26900	28900	31100	33300
FFAP-050Z-CFV	ZS38K4E-PFV				15200	16900	18800	20900	23000	25300	27900	30500	33300	36300	39400
FFAP-050Z-TFC	ZS38K4E-TF5				15200	16900	18800	20900	23000	25300	27900	30500	33300	36300	39400
FFAP-050Z-TFD	ZS38K4E-TFD				15200	16900	18800	20900	23000	25300	27900	30500	33300	36300	39400
FFAP-050Z-TFE	ZS38K4E-TFE				15200	16900	18800	20900	23000	25300	27900	30500	33300	36300	39400
FFAL-050Z-TFC	ZF18K4E-TF5	12200	13800	15400	17100	18800	20600	22400	24300	26300	28400	30500	32700	35000	37300
FFAL-050Z-TFD	ZF18K4E-TFD	12200	13800	15400	17100	18800	20600	22400	24300	26300	28400	30500	32700	35000	37300
FFAP-060Z-TFC	ZS45K4E-TF5				18500	20600	22800	25100	27600	30300	33100	36000	39200	42400	45900
FFAP-060Z-TFD	ZS45K4E-TFD				18500	20600	22800	25100	27600	30300	33100	36000	39200	42400	45900
110° Ambient															
FFAL-010Z-CFV	ZF03KAE-PFV	1850	2050	2280	2530	2820	3140	3510	3930	4390	4910	5480			
FFAL-010Z-TFC	ZF03KAE-TF5	1850	2050	2280	2530	2820	3150	3520	3930	4400	4910	5480			
FFAL-010Z-CFV	ZS09KAE-PFV						3960	4350	4760	5180					
FFAL-010Z-TFC	ZS09KAE-TF5						3960	4350	4760	5180					
FFAL-010Z-TFD	ZS09KAE-TFD						3960	4350	4760	5180					
FFAL-013Z-CFV	ZF04KAE-PFV	2330	2580	2880	3250	3670	4140	4660	5230	5840	6500	7190			
FFAL-013Z-TFC	ZF04KAE-TF5	2330	2580	2880	3250	3670	4140	4670	5240	5850	6500	7200			
FFAP-015Z-CFV	ZS09KAE-PFV				3410	3820	4250	4720	5220	5750	6360	7000	7680	8430	9220
FFAP-015Z-TFC	ZS09KAE-TF5				3410	3820	4250	4720	5220	5750	6360	7000	7680	8430	9220
FFAP-015Z-TFD	ZS09KAE-TFD				3410	3820	4250	4720	5220	5750	6360	7000	7680	8430	9220
FFAL-012Z-CFV	ZS11KAE-PFV							4930	5380	5820					
FFAL-012Z-TFC	ZS11KAE-TF5							4930	5380	5820					
FFAL-012Z-TFD	ZS11KAE-TFD							4930	5380	5820					
FFAP-017Z-CFV	ZS11KAE-PFV				4420	4910	5440	6010	6600	7290	8000	8770	9590	10500	
FFAP-017Z-TFC	ZS11KAE-TF5				4420	4910	5440	6010	6600	7290	8000	8770	9590	10500	
FFAP-017Z-TFD	ZS11KAE-TFD				4420	4910	5440	6010	6600	7290	8000	8770	9590	10500	
FFAL-014Z-TFC	ZF05KAE-TF5	2730	3080	3480	3930	4430	4970	5550	6160	6810	7490	8190			
FFAL-014Z-CFV	ZF05KAE-PFV	2740	3090	3490	3940	4440	4980	5560	6170	6810	7490	8180			
FFAP-018Z-CFV	ZS13KAE-PFV				5040	5580	6170	6790	7420	8170	8930	9740	10600	11600	
FFAP-020Z-CFV	ZS13KAE-PFV				5170	5750	6380	7050	7760	8570	9420	10300	11300	12400	
FFAP-020Z-TFC	ZS13KAE-TF5				5170	5750	6380	7050	7760	8570	9420	10300	11300	12400	
FFAP-020Z-TFD	ZS13KAE-TFD				5170	5750	6380	7050	7760	8570	9420	10300	11300	12400	
FFAL-013Z-CFV	ZS15KAE-PFV				6020	6650	7330	8040	8770						
FFAL-013Z-TFC	ZS15KAE-TF5				6020	6650	7330	8040	8770						
FFAL-013Z-TFD	ZS15KAE-TFD				6020	6650	7330	8040	8770						
FFAL-015Z-TFC	ZF06K4E-TF5	3870	4460	5050	5650	6260	6890	7530	8190	8860	9560	10300	11000	11800	12500

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

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

R-404A EMT/Low Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25
FFAL-015Z-TFD	ZF06K4E-TFD	3870	4460	5050	5650	6260	6890	7530	8190	8860	9560	10300	11000	11800	12500
FFAL-015Z-CFV	ZF06K4E-PFV	3930	4520	5120	5720	6340	6970	7610	8270	8950	9640	10400	11100	11800	
FFAP-022Z-CFV	ZS15KAE-PFV					6190	6880	7630	8430	9260	10200	11200	12300	13400	14700
FFAP-022Z-TFC	ZS15KAE-TF5					6190	6880	7630	8430	9260	10200	11200	12300	13400	14700
FFAP-022Z-TFD	ZS15KAE-TFD					6190	6880	7630	8430	9260	10200	11200	12300	13400	14700
FFAL-017Z-CFV	ZF07KAE-PFV	3970	4630	5270	5910	6560	7220	7910	8630	9410	10200	11100			
FFAL-017Z-TFC	ZF07KAE-TF5	3980	4640	5280	5910	6570	7230	7920	8650	9430	10300	11200			
FPAK-015Z-CFV	ZS19KAE-PFV						7310	8030	8790	9560					
FPAK-015Z-TFC	ZS19KAE-TF5						7310	8030	8790	9560					
FPAK-015Z-TFD	ZS19KAE-TFD						7310	8030	8790	9560					
FFAP-030Z-CFV	ZS19KAE-TF5					7040	7850	8730	9690	10700	11900	13100	14400	15900	17400
FFAP-030Z-TFC	ZS19KAE-PFV					7110	7930	8810	9770	10800	11900	13200	14500	15900	17400
FFAP-030Z-TFD	ZS19KAE-TFD					7110	7930	8810	9770	10800	11900	13200	14500	15900	17400
FFAL-020Z-TFC	ZF08K4E-TF5	4870	5560	6290	7070	7900	8790	9740	10800	11800	13000	14200	15500	16800	18300
FFAL-020Z-TFD	ZF08K4E-TFD	4870	5560	6290	7070	7900	8790	9740	10800	11800	13000	14200	15500	16800	18300
FFAL-020Z-CFV	ZF08K4E-PFV	4960	5660	6400	7190	8030	8930	9890	10900	12000	13200	14400	15700	17100	18500
FFAL-022Z-TFC	ZF09K4E-TF5	5460	6230	7030	7880	8780	9730	10700	11800	13000	14200	15600	16900	18400	20000
FFAL-022Z-TFD	ZF09K4E-TFD	5460	6230	7030	7880	8780	9730	10700	11800	13000	14200	15600	16900	18400	20000
FFAL-022Z-CFV	ZF09K4E-PFV	5550	6330	7150	8000	8920	9880	10900	12000	13200	14400	15800	17200	18600	20200
FPAK-020Z-CFV	ZS26KAE-TF5					9040	10000	11000	12100	13200					
FPAK-020Z-TFC	ZS21KAE-TF5					9040	10000	11000	12100	13200					
FPAK-020Z-TFD	ZS21KAE-PFV					9040	10000	11000	12100	13200					
FFAP-032Z-CFV	ZS21KAE-PFV					9270	10300	11400	12600	13800	15300	16800	18400	20100	22000
FFAP-032Z-TFC	ZS21KAE-TF5					9270	10300	11400	12600	13800	15300	16800	18400	20100	22000
FFAP-032Z-TFD	ZS21KAE-TFD					9270	10300	11400	12600	13800	15300	16800	18400	20100	22000
FFAP-035Z-CFV	ZS26KAE-PFV					10200	11300	12400	13600	14900	16300	17800	19400	21100	23000
FFAP-035Z-TFC	ZS26KAE-TF5					10200	11300	12400	13600	14900	16300	17800	19400	21100	23000
FFAL-026Z-TFC	ZF11K4E-TF5	6740	7640	8590	9600	10700	11800	13000	14300	15700	17100	18700	20200	21900	23500
FFAL-026Z-TFD	ZF11K4E-TFD	6740	7640	8590	9600	10700	11800	13000	14300	15700	17100	18700	20200	21900	23500
FFAL-026Z-CFV	ZF11K4E-PFV	6850	7760	8730	9750	10800	12000	13200	14500	15900	17300	18900	20400	22000	23700
FFAP-040Z-CFV	ZS26KAE-PFV				9600	10800	12000	13400	14900	16500	18300	20200	22300	24600	27100
FFAP-040Z-TFC	ZS21KAE-TFD				9600	10800	12000	13400	14900	16500	18300	20200	22300	24600	27100
FFAP-040Z-TFD	ZS26KAE-TFD				9600	10800	12000	13400	14900	16500	18300	20200	22300	24600	27100
FPAK-039Z-CFV	ZS29KAE-PFV					11500	12700	14000	15400	16900					
FPAK-039Z-TFC	ZS29KAE-TF5					11500	12700	14000	15400	16900					
FPAK-039Z-TFD	ZS29KAE-TFD					11500	12700	14000	15400	16900					
FFAL-030Z-TFC	ZF13K4E-TF5	7600	8510	9500	10600	11800	13000	14400	15800	17400	19000	20600	22400	24100	25900
FFAL-030Z-TFD	ZF13K4E-TFD	7600	8510	9500	10600	11800	13000	14400	15800	17400	19000	20600	22400	24100	25900
FFAL-030Z-CFV	ZF13K4E-PFV	7380	8440	9570	10800	12100	13400	14900	16400	17900	19500	21100	22700	24300	25900
FFAP-042Z-CFV	ZS33KAE-PFV				11900	13300	14900	16500	18400	20300	22500	24800	27300	30000	32900
FFAP-042Z-TFC	ZS33KAE-TF5				11900	13300	14900	16500	18400	20300	22500	24800	27300	30000	32900
FFAP-042Z-TFD	ZS33KAE-TFD				11900	13300	14900	16500	18400	20300	22500	24800	27300	30000	32900
FFAL-040Z-TFC	ZF15K4E-TF5	9200	10400	11600	12900	14300	15700	17200	18700	20300	21900	23500			
FFAL-040Z-TFD	ZF15K4E-TFD	9200	10400	11600	12900	14300	15700	17200	18700	20300	21900	23500			
FFAL-040Z-CFV	ZF15K4E-PFV	9340	10500	11800	13100	14500	15900	17300	18900	20400	22000	23600			
FFAP-050Z-CFV	ZS38K4E-PFV				13800	15400	17100	18900	20800	22800	25100	27500	30000	32700	35500
FFAP-050Z-TFC	ZS38K4E-TF5				13800	15400	17100	18900	20800	22800	25100	27500	30000	32700	35500
FFAP-050Z-TFD	ZS38K4E-TFD				13800	15400	17100	18900	20800	22800	25100	27500	30000	32700	35500
FFAP-050Z-TFE	ZS38K4E-TFE				13800	15400	17100	18900	20800	22800	25100	27500	30000	32700	35500
FFAL-050Z-TFC	ZF18K4E-TF5	11200	12700	14100	15600	21800				23400					
FFAL-050Z-TFD	ZF18K4E-TFD	11200	12700	14100	15600	21800				23400					
FFAP-060Z-TFC	ZS45K4E-TF5					18800	20700	22800	25000	27200	29600	32200	34800	37500	40200
FFAP-060Z-TFD	ZS45K4E-TFD					18800	20700	22800	25000	27200	29600	32200	34800	37500	40200

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

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

R-404A Medium Temp/High Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
90° Ambient												
FFAM-008Z-CFV	ZB06KAE-PFV	4460	5000	5590	6240	6950	7700	7970	8790	9650	10500	11500
FFAM-008Z-TFC	ZB06KAE-TF5	4470	5000	5600	6250	6950	7700	7970	8790	9650	10500	11500
FFAM-010Z-CFV	ZB07KAE-PFV	5310	5980	6700	7470	8300	9190	9510	10500	11600	12700	13900
FFAM-010Z-TFC	ZB07KAE-TF5	5320	5990	6700	7470	8310	9200	9520	10500	11600	12700	13900
FFAM-012Z-CFV	ZB08KAE-PFV	6240	6950	7700	8500	9370	10300	10700	11800	13000	14300	15700
FFAM-012Z-TFC	ZB08KAE-TF5	6240	6950	7700	8500	9370	10300	10700	11800	13000	14300	15700
FFAP-015Z-CFV	ZS09KAE-PFV	6900	7660	8460	9320	10200	11200	11500	12400	13400	14500	15600
FFAP-015Z-TFC	ZS09KAE-TF5	6900	7660	8460	9320	10200	11200	11500	12400	13400	14500	15600
FFAP-015Z-TFD	ZS09KAE-TFD	6900	7660	8460	9320	10200	11200	11500	12400	13400	14500	15600
FFAP-017Z-CFV	ZS11KAE-PFV	7970	8830	9730	10700	11700	12800	13100	14300	15500	16900	18500
FFAP-017Z-TFC	ZS11KAE-TF5	7970	8830	9730	10700	11700	12800	13100	14300	15500	16900	18500
FFAP-017Z-TFD	ZS11KAE-TFD	7970	8830	9730	10700	11700	12800	13100	14300	15500	16900	18500
FFAP-018Z-CFV	ZS13KAE-PFV	9040	9980	11000	12000	13100	14300	14600	15800	17000	18200	19500
FFAP-020Z-CFV	ZS13KAE-PFV	9340	10400	11400	12600	13800	15100	15300	16600	17900	19300	20800
FFAP-020Z-TFC	ZS13KAE-TF5	9340	10400	11400	12600	13800	15100	15300	16600	17900	19300	20800
FFAP-020Z-TFD	ZS13KAE-TFD	9340	10400	11400	12600	13800	15100	15300	16600	17900	19300	20800
FFAP-022Z-CFV	ZS15KAE-PFV	11200	12300	13600	15000	16400	17900	18300	19800	21400	23000	24600
FFAP-022Z-TFC	ZS15KAE-TF5	11200	12300	13600	15000	16400	17900	18300	19800	21400	23000	24600
FFAP-022Z-TFD	ZS15KAE-TFD	11200	12300	13600	15000	16400	17900	18300	19800	21400	23000	24600
FFAP-030Z-CFV	ZS19KAE-PFV	12900	14300	15900	17500	19300	21100	21600	23500	25400	27500	29600
FFAP-030Z-TFC	ZS19KAE-TF5	12900	14300	15900	17500	19300	21200	21600	23500	25400	27500	29600
FFAP-030Z-TFD	ZS19KAE-TFD	12900	14300	15900	17500	19300	21100	21600	23500	25400	27500	29600
FFAP-032Z-CFV	ZS21KAE-PFV	16700	18500	20400	22400	24600	26900	27900	30500	33300	36400	39700
FFAP-032Z-TFC	ZS21KAE-TF5	16700	18500	20400	22400	24600	26900	27900	30500	33300	36400	39700
FFAP-032Z-TFD	ZS21KAE-TFD	16700	18500	20400	22400	24600	26900	27900	30500	33300	36400	39700
FFAP-035Z-CFV	ZS26KAE-PFV	18200	20100	22000	24100	26300	28700	29500	31800	34200	36600	39200
FFAP-035Z-TFC	ZS26KAE-TF5	18200	20100	22000	24100	26300	28700	29500	31800	34200	36600	39200
FFAP-040Z-CFV	ZS26KAE-PFV	19600	21800	24200	26700	29500	32500	34200	37500	41000	44800	49500
FFAP-040Z-TFC	ZS26KAE-TF5	19600	21800	24200	26700	29500	32500	34200	37500	41000	44800	49500
FFAP-040Z-TFD	ZS26KAE-TFD	19600	21800	24200	26700	29500	32500	34200	37500	41000	44800	49500
FFAP-042Z-CFV	ZS33KAE-PFV	24200	26800	29700	32800	36100	39600	40800	44800	49100	54000	59000
FFAP-042Z-TFC	ZS33KAE-TF5	24200	26800	29700	32800	36100	39600	40800	44800	49100	54000	59000
FFAP-042Z-TFD	ZS33KAE-TFD	24200	26800	29700	32800	36100	39600	40800	44800	49100	54000	59000
FFAP-050Z-CFV	ZS38K4E-PFV	27700	30500	33400	36500	39800	43200	45400	49300	53500	57500	62000
FFAP-050Z-TFC	ZS38K4E-TF5	27700	30500	33400	36500	39800	43200	45400	49300	53500	57500	62000
FFAP-050Z-TFD	ZS38K4E-TFD	27700	30500	33400	36500	39800	43200	45400	49300	53500	57500	62000
FFAP-050Z-TFE	ZS38K4E-TFE	27700	30500	33400	36500	39800	43200	45400	49300	53500	57500	62000
FFAP-060Z-TFC	ZS45K4E-TF5	33100	36200	39500	43000	46700	50500	52500	57000	61000	65500	70500
FFAP-060Z-TFD	ZS45K4E-TFD	33100	36200	39500	43000	46700	50500	52500	57000	61000	65500	70500
FFAM-071Z-TFC	ZB48KCE-TF5	36700	40500	44600	48900	53500	58000	60500	65500	71000	76500	82000
FFAM-071Z-TFD	ZB48KCE-TFD	36700	40500	44600	48900	53500	58000	60500	65500	71000	76500	82000
FFAM-081Z-TFC	ZB57KCE-TF5	41400	45500	49900	54500	59500	64500	67000	72500	78000	83500	89500
FFAM-081Z-TFD	ZB57KCE-TFD	41400	45500	49900	54500	59500	64500	67000	72500	78000	83500	89500
FFAM-091Z-TFC	ZB66K5E-TFC	47600	52500	57500	62500	67500	73000	76500	82000	88000	94500	100000
FFAM-091Z-TFD	ZB66K5E-TFD	47600	52500	57500	62500	67500	73000	76500	82000	88000	94500	100000
FFAM-101Z-TFC	ZB76K5E-TFC	54000	59500	64500	70000	75500	81000	91000	97500	104000	110000	
FFAM-101Z-TFD	ZB76K5E-TFD	54000	59500	64500	70000	75500	81000	91000	97500	104000	110000	

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-404A Medium Temp/High Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
100° Ambient												
FFAM-008Z-CFV	ZB06KAE-PFV	4070	4580	5130	5730	6370	7050	7360	8100	8880	9690	10500
FFAM-008Z-TFC	ZB06KAE-TF5	4080	4580	5130	5730	6370	7060	7360	8110	8890	9690	10500
FFAM-010Z-CFV	ZB07KAE-PFV	4910	5530	6180	6880	7620	8420	8790	9680	10600	11700	12700
FFAM-010Z-TFC	ZB07KAE-TF5	4910	5530	6190	6890	7630	8430	8810	9700	10700	11700	12700
FFAM-012Z-CFV	ZB08KAE-PFV	5760	6420	7090	7820	8600	9450	9890	10900	11900	13100	14400
FFAM-012Z-TFC	ZB08KAE-TF5	5770	6420	7090	7820	8600	9460	9890	10900	12000	13100	14400
FFAP-015Z-CFV	ZS09KAE-PFV	6350	7040	7760	8530	9370	10300	10600	11500	12400	13300	14300
FFAP-015Z-TFC	ZS09KAE-TF5	6350	7040	7760	8530	9370	10300	10600	11500	12400	13300	14300
FFAP-015Z-TFD	ZS09KAE-TFD	6350	7040	7760	8530	9370	10300	10600	11500	12400	13300	14300
FFAP-017Z-CFV	ZS11KAE-PFV	7320	8090	8900	9770	10700	11700	12000	13100	14200	15500	17000
FFAP-017Z-TFC	ZS11KAE-TF5	7320	8090	8900	9770	10700	11700	12000	13100	14200	15500	17000
FFAP-017Z-TFD	ZS11KAE-TFD	7320	8090	8900	9770	10700	11700	12000	13100	14200	15500	17000
FFAP-018Z-CFV	ZS13KAE-PFV	8270	9120	10000	10900	11900	13000	13700	14700	15800	16900	18100
FFAP-020Z-CFV	ZS13KAE-PFV	8590	9500	10500	11500	12600	13800	14200	15400	16600	17800	19100
FFAP-020Z-TFC	ZS13KAE-TF5	8590	9500	10500	11500	12600	13800	14200	15400	16600	17800	19100
FFAP-020Z-TFD	ZS13KAE-TFD	8590	9500	10500	11500	12600	13800	14200	15400	16600	17800	19100
FFAP-022Z-CFV	ZS15KAE-PFV	10300	11300	12500	13700	15000	16400	17000	18400	19800	21200	22800
FFAP-022Z-TFC	ZS15KAE-TF5	10300	11300	12500	13700	15000	16400	17000	18400	19800	21200	22800
FFAP-022Z-TFD	ZS15KAE-TFD	10300	11300	12500	13700	15000	16400	17000	18400	19800	21200	22800
FFAP-030Z-TFC	ZS19KAE-TF5	11900	13100	14500	15900	17500	19200	19800	21500	23200	25000	26900
FFAP-030Z-CFV	ZS19KAE-PFV	11900	13200	14600	16000	17600	19400	20000	21700	23400	25300	27200
FFAP-030Z-TFD	ZS19KAE-TFD	11900	13200	14600	16000	17600	19400	20000	21700	23400	25300	27200
FFAP-032Z-CFV	ZS21KAE-PFV	15300	17000	18700	20500	22400	24500	25700	28100	30700	33500	36600
FFAP-032Z-TFC	ZS21KAE-TF5	15300	17000	18700	20500	22400	24500	25700	28100	30700	33500	36600
FFAP-032Z-TFD	ZS21KAE-TFD	15300	17000	18700	20500	22400	24500	25700	28100	30700	33500	36600
FFAP-035Z-CFV	ZS26KAE-PFV	16600	18300	20000	21900	23800	25900	27600	29700	31800	34000	36300
FFAP-035Z-TFC	ZS26KAE-TF5	16600	18300	20000	21900	23800	25900	27600	29700	31800	34000	36300
FFAP-040Z-CFV	ZS26KAE-PFV	18100	20100	22300	24600	27100	29900	31600	34600	37900	41400	45800
FFAP-040Z-TFC	ZS26KAE-TF5	18100	20100	22300	24600	27100	29900	31600	34600	37900	41400	45800
FFAP-040Z-TFD	ZS26KAE-TFD	18100	20100	22300	24600	27100	29900	31600	34600	37900	41400	45800
FFAP-042Z-CFV	ZS33KAE-PFV	22300	24700	27300	30100	33100	36400	37800	41400	45400	49900	54500
FFAP-042Z-TFC	ZS33KAE-TF5	22300	24700	27300	30100	33100	36400	37800	41400	45400	49900	54500
FFAP-042Z-TFD	ZS33KAE-TFD	22300	24700	27300	30100	33100	36400	37800	41400	45400	49900	54500
FFAP-050Z-CFV	ZS38K4E-PFV	25300	27900	30500	33300	36300	39400	41800	45300	49000	53000	57000
FFAP-050Z-TFC	ZS38K4E-TF5	25300	27900	30500	33300	36300	39400	41800	45300	49000	53000	57000
FFAP-050Z-TFD	ZS38K4E-TFD	25300	27900	30500	33300	36300	39400	41800	45300	49000	53000	57000
FFAP-050Z-TFE	ZS38K4E-TFE	25300	27900	30500	33300	36300	39400	41800	45300	49000	53000	57000
FFAP-060Z-TFC	ZS45K4E-TF5	30300	33100	36000	39200	42400	45900	48100	52000	56000	60000	64000
FFAP-060Z-TFD	ZS45K4E-TFD	30300	33100	36000	39200	42400	45900	48100	52000	56000	60000	64000
FFAM-071Z-TFC	ZB48KCE-TF5	33300	36800	40400	44300	48400	52500	55500	60000	65000	70000	75000
FFAM-071Z-TFD	ZB48KCE-TFD	33300	36800	40400	44300	48400	52500	55500	60000	65000	70000	75000
FFAM-081Z-TFC	ZB57KCE-TF5	37900	41700	45700	49800	54000	58500	61500	66000	71000	76000	81000
FFAM-081Z-TFD	ZB57KCE-TFD	37900	41700	45700	49800	54000	58500	61500	66000	71000	76000	81000
FFAM-091Z-TFC	ZB66K5E-TFC	43100	47500	52000	56500	61500	66000	69500	75000	80000	85500	91000
FFAM-091Z-TFD	ZB66K5E-TFD	43100	47500	52000	56500	61500	66000	69500	75000	80000	85500	91000
FFAM-101Z-TFC	ZB76K5E-TFC	49600	54000	59000	63500	68500	73500	83000	88000			
FFAM-101Z-TFD	ZB76K5E-TFD	49600	54000	59000	63500	68500	73500	83000	88000			

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-404A Medium Temp/High Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
110° Ambient												
FFAM-008Z-CFV	ZB06KAE-PFV	3800	4260	4760	5290	5840	6430	6750	7380	8030	8690	9360
FFAM-008Z-TFC	ZB06KAE-TF5	3810	4270	4760	5290	5850	6440	6760	7390	8040	8700	9360
FFAM-010Z-CFV	ZB07KAE-PFV	4600	5150	5720	6310	6920	7570	7970	8690	9450	10200	11100
FFAM-010Z-TFC	ZB07KAE-TF5	4610	5160	5730	6320	6940	7590	7990	8710	9480	10300	11100
FFAM-012Z-CFV	ZB08KAE-PFV	5350	5920	6490	7080	7720	8400	8860	9650	10500	11500	12500
FFAM-012Z-TFC	ZB08KAE-TF5	5360	5920	6490	7090	7730	8420	8880	9670	10500	11500	12500
FFAP-015Z-CFV	ZS09KAE-TFD	5750	6360	7000	7680	8430	9220	9910	10700	11500	12300	13200
FFAP-015Z-TFC	ZS09KAE-TF5	5750	6360	7000	7680	8430	9220	9910	10700	11500	12300	13200
FFAP-015Z-TFD	ZS11KAE-TF5	5750	6360	7000	7680	8430	9220	9910	10700	11500	12300	13200
FFAP-017Z-CFV	ZS13KAE-TF5	6600	7290	8000	8770	9590	10500	10800	11800	12900		
FFAP-017Z-TFC	ZS09KAE-PFV	6600	7290	8000	8770	9590	10500	10800	11800	12900		
FFAP-017Z-TFD	ZS11KAE-PFV	6600	7290	8000	8770	9590	10500	10800	11800	12900		
FFAP-018Z-CFV	ZS13KAE-PFV	7420	8170	8930	9740	10600	11600	13000	14000			
FFAP-020Z-CFV	ZS13KAE-PFV	7760	8570	9420	10300	11300	12400	13400	14400	15500	16600	17800
FFAP-020Z-TFC	ZS11KAE-TFD	7760	8570	9420	10300	11300	12400	13400	14400	15500	16600	17800
FFAP-020Z-TFD	ZS13KAE-TFD	7760	8570	9420	10300	11300	12400	13400	14400	15500	16600	17800
FFAP-022Z-CFV	ZS15KAE-PFV	9260	10200	11200	12300	13400	14700	16100	17300	18500	19800	21200
FFAP-022Z-TFC	ZS15KAE-TF5	9260	10200	11200	12300	13400	14700	16100	17300	18500	19800	21200
FFAP-022Z-TFD	ZS15KAE-TFD	9260	10200	11200	12300	13400	14700	16100	17300	18500	19800	21200
FFAP-030Z-CFV	ZS19KAE-PFV	10800	11900	13200	14500	15900	17400	18600	20100	21700	23300	25000
FFAP-030Z-TFC	ZS19KAE-TF5	10700	11900	13100	14400	15900	17400	18600	20000	21600	23200	24900
FFAP-030Z-TFD	ZS19KAE-TFD	10800	11900	13200	14500	15900	17400	18600	20100	21700	23300	25000
FFAP-032Z-CFV	ZS21KAE-PFV	13800	15300	16800	18400	20100	22000	23300	25500	27900	30500	
FFAP-032Z-TFC	ZS21KAE-TF5	13800	15300	16800	18400	20100	22000	23300	25500	27900	30500	
FFAP-032Z-TFD	ZS21KAE-TFD	13800	15300	16800	18400	20100	22000	23300	25500	27900	30500	
FFAP-035Z-CFV	ZS26KAE-PFV	14900	16300	17800	19400	21100	23000	26300				
FFAP-035Z-TFC	ZS26KAE-TF5	14900	16300	17800	19400	21100	23000	26300				
FFAP-040Z-CFV	ZS33KAE-TF5	16500	18300	20200	22300	24600	27100	28800	31600	34700	38000	42100
FFAP-040Z-TFC	ZS26KAE-TF5	16500	18300	20200	22300	24600	27100	28800	31600	34700	38000	42100
FFAP-040Z-TFD	ZS26KAE-PFV	16500	18300	20200	22300	24600	27100	28800	31600	34700	38000	42100
FFAP-042Z-CFV	ZS33KAE-PFV	20300	22500	24800	27300	30000	32900	34500	37900	41600	45700	50000
FFAP-042Z-TFC	ZS26KAE-TFD	20300	22500	24800	27300	30000	32900	34500	37900	41600	45700	50000
FFAP-042Z-TFD	ZS33KAE-TFD	20300	22500	24800	27300	30000	32900	34500	37900	41600	45700	50000
FFAP-050Z-CFV	ZS38K4E-PFV	22800	25100	27500	30000	32700	35500	37900	41100	44500	48100	52000
FFAP-050Z-TFC	ZS38K4E-TF5	22800	25100	27500	30000	32700	35500	37900	41100	44500	48100	52000
FFAP-050Z-TFD	ZS38K4E-TFD	22800	25100	27500	30000	32700	35500	37900	41100	44500	48100	52000
FFAP-050Z-TFE	ZS38K4E-TFE	22800	25100	27500	30000	32700	35500	37900	41100	44500	48100	52000
FFAP-060Z-TFC	ZS45K4E-TF5	27200	29600	32200	34800	37500	40200	42600	45500			
FFAP-060Z-TFD	ZS45K4E-TFD	27200	29600	32200	34800	37500	40200	42600	45500			
FFAM-071Z-TFC	ZB48KCE-TF5			35800	39300	42800	46600	49400	53500	58000	62500	67000
FFAM-071Z-TFD	ZB48KCE-TFD			35800	39300	42800	46600	49400	53500	58000	62500	67000
FFAM-081Z-TFC	ZB57KCE-TF5			40600	44100	47700	51500	54500	58500	62500		
FFAM-081Z-TFD	ZB57KCE-TFD			40600	44100	47700	51500	54500	58500	62500		
FFAM-091Z-TFC	ZB66K5E-TFC		41900	45900	49900	54000	58000	61500				
FFAM-091Z-TFD	ZB66K5E-TFD		41900	45900	49900	54000	58000	61500				
FFAM-101Z-TFC	ZB76K5E-TFC			52500	56500							
FFAM-101Z-TFD	ZB76K5E-TFD			52500	56500							

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-407A EMT/Low Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
90° Ambient										
FFAL-010Z-CFV	ZF03KAE-PFV	1780	1990	2230	2500	2810	3150	3550	3990	4490
FFAL-010Z-TFC	ZF03KAE-TF5	1780	1990	2230	2500	2800	3150	3550	3990	4490
FFAL-013Z-TFC	ZF04KAE-TF5	2210	2470	2800	3210	3680	4210	4810	5480	6200
FFAL-013Z-CFV	ZF04KAE-PFV	2210	2470	2810	3210	3680	4220	4820	5480	6200
FFAP-015Z-CFV	ZS09KAE-PFV				3400	4000	4610	5220	5860	6510
FFAP-015Z-TFC	ZS09KAE-TF5				3400	4000	4610	5220	5860	6510
FFAP-015Z-TFD	ZS09KAE-TFD				3400	4000	4610	5220	5860	6510
FFAL-014Z-CFV	ZF05KAE-PFV	2500	2850	3270	3770	4330	4970	5670	6430	7260
FFAL-014Z-TFC	ZF05KAE-TF5	2500	2850	3270	3770	4330	4970	5670	6430	7260
FFAP-017Z-CFV	ZS11KAE-PFV				4010	4730	5440	6150	6890	7650
FFAP-017Z-TFC	ZS11KAE-TF5				4010	4730	5440	6150	6890	7650
FFAP-017Z-TFD	ZS11KAE-TFD				4010	4730	5440	6150	6890	7650
FFAP-018Z-CFV	ZS13KAE-PFV					5320	6110	6910	7730	8560
FFAP-020Z-CFV	ZS13KAE-PFV				4640	5470	6290	7130	7990	8890
FFAP-020Z-TFC	ZS13KAE-TF5				4640	5470	6290	7130	7990	8890
FFAP-020Z-TFD	ZS13KAE-TFD				4640	5470	6290	7130	7990	8890
FFAL-015Z-CFV	ZF06K4E-PFV	3180	3730	4340	5030	5790	6630	7570	8610	9750
FFAL-015Z-TFC	ZF06K4E-TF5	3760	4340	4990	5700	6480	7310	8210	9160	10200
FFAL-015Z-TFD	ZF06K4E-TFD	3760	4340	4990	5700	6480	7310	8210	9160	10200
FFAP-022Z-CFV	ZS15KAE-PFV					6510	7500	8500	9530	10600
FFAP-022Z-TFC	ZS15KAE-TF5					6510	7500	8500	9530	10600
FFAP-022Z-TFD	ZS15KAE-TFD					6510	7500	8500	9530	10600
FFAL-017Z-CFV	ZF07KAE-PFV	3990	4670	5370	6110	6900	7750	8670	9680	10800
FFAL-017Z-TFC	ZF07KAE-TF5	3990	4670	5370	6110	6910	7760	8680	9680	10800
FFAP-030Z-CFV	ZS19KAE-PFV				6330	7460	8590	9740	10900	12200
FFAP-030Z-TFD	ZS19KAE-TFD				6330	7460	8590	9740	10900	12200
FFAP-030Z-TFC	ZS19KAE-TF5				6350	7490	8630	9780	11000	12200
FFAL-020Z-CFV	ZF08K4E-PFV	4670	5390	6200	7100	8080	9140	10300	11500	12800
FFAL-020Z-TFC	ZF08K4E-TF5	4670	5390	6200	7100	8080	9140	10300	11500	12800
FFAL-020Z-TFD	ZF08K4E-TFD	4670	5390	6200	7100	8080	9140	10300	11500	12800
FFAL-022Z-CFV	ZF09K4E-PFV	4650	5460	6340	7310	8380	9590	10900	12500	14200
FFAL-022Z-TFC	ZF09K4E-TF5	5390	6020	6860	7870	9000	10200	11500	12800	14000
FFAL-022Z-TFD	ZF09K4E-TFD	5390	6020	6860	7870	9000	10200	11500	12800	14000
FFAP-032Z-CFV	ZS21KAE-PFV				7130	8530	9990	11500	13100	14800
FFAP-032Z-TFC	ZS21KAE-TF5				7130	8530	9990	11500	13100	14800
FFAP-032Z-TFD	ZS21KAE-TFD				7130	8530	9990	11500	13100	14800
FFAP-035Z-CFV	ZS26KAE-PFV				8030	9520	11100	12800	14500	16400
FFAP-035Z-TFC	ZS26KAE-TF5				8030	9520	11100	12800	14500	16400
FFAL-026Z-CFV	ZF11K4E-PFV	5760	6740	7800	8990	10300	11800	13400	15300	17400
FFAL-026Z-TFC	ZF11K4E-TF5	6620	7390	8420	9660	11100	12600	14100	15700	17200
FFAL-026Z-TFD	ZF11K4E-TFD	6620	7390	8420	9660	11100	12600	14100	15700	17200
FFAP-040Z-CFV	ZS26KAE-PFV				9410	11100	12800	14500	16300	18200
FFAP-040Z-TFC	ZS26KAE-TF5				9410	11100	12800	14500	16300	18200
FFAP-040Z-TFD	ZS26KAE-TFD				9410	11100	12800	14500	16300	18200
FFAL-030Z-TFC	ZF13K4E-TF5	7580	8390	9470	10800	12300	14000	15800	17800	19800
FFAL-030Z-TFD	ZF13K4E-TFD	7580	8390	9470	10800	12300	14000	15800	17800	19800
FFAL-030Z-CFV	ZF13K4E-PFV	7530	8420	9600	11000	12700	14400	16400	18300	20400
FFAP-042Z-CFV	ZS33KAE-PFV				11900	14000	16100	18200	20500	22800
FFAP-042Z-TFC	ZS33KAE-TF5				11900	14000	16100	18200	20500	22800
FFAP-042Z-TFD	ZS33KAE-TFD				11900	14000	16100	18200	20500	22800
FFAL-040Z-TFC	ZF15K4E-TF5	9510	10500	11700	13200	14900	16800	19000	21200	23700
FFAL-040Z-TFD	ZF15K4E-TFD	9510	10500	11700	13200	14900	16800	19000	21200	23700
FFAL-040Z-CFV	ZF15K4E-PFV	9660	10700	12000	13600	15400	17400	19600	21800	24100
FFAP-050Z-CFV	ZS38K4E-PFV				13500	15900	18400	21000	23800	26700
FFAP-050Z-TFC	ZS38K4E-TF5				13500	15900	18400	21000	23800	26700
FFAP-050Z-TFD	ZS38K4E-TFD				13500	15900	18400	21000	23800	26700
FFAP-050Z-TFE	ZS38K4E-TFE				13500	15900	18400	21000	23800	26700
FFAL-050Z-TFC	ZF18K4E-TF5	11300	12500	14000	15700	17800	20000	22400	25000	27700
FFAL-050Z-TFD	ZF18K4E-TFD	11300	12500	14000	15700	17800	20000	22400	25000	27700
FFAP-060Z-TFC	ZS45K4E-TF5				16200	18400	21000	23800	26900	30300
FFAP-060Z-TFD	ZS45K4E-TFD				16200	18400	21000	23800	26900	30300

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

R-407A EMT/Low Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
100° Ambient										
FFAL-010Z-CFV	ZF03KAE-PFV	1660	1870	2090	2340	2630	2950	3310	3710	4160
FFAL-010Z-TFC	ZF03KAE-TF5	1660	1870	2090	2340	2630	2950	3310	3710	4160
FFAL-013Z-CFV	ZF04KAE-PFV	2080	2320	2620	2990	3420	3910	4470	5080	5750
FFAL-013Z-TFC	ZF04KAE-TF5	2080	2320	2620	2990	3420	3910	4470	5080	5750
FFAP-015Z-CFV	ZS09KAE-PFV							4850	5440	6050
FFAP-015Z-TFC	ZS09KAE-TF5							4850	5440	6050
FFAP-015Z-TFD	ZS09KAE-TFD							4850	5440	6050
FFAL-014Z-CFV	ZF05KAE-PFV	2360	2670	3050	3500	4020	4610	5250	5970	6740
FFAL-014Z-TFC	ZF05KAE-TF5	2360	2670	3050	3500	4020	4600	5250	5970	6740
FFAP-017Z-CFV	ZS13KAE-TF5							5710	6400	7100
FFAP-017Z-TFC	ZS11KAE-PFV							5710	6400	7100
FFAP-017Z-TFD	ZS11KAE-TF5							5710	6400	7100
FFAP-020Z-CFV	ZS13KAE-PFV							6600	7410	8240
FFAP-020Z-TFC	ZS11KAE-TFD							6600	7410	8240
FFAP-020Z-TFD	ZS13KAE-TFD							6600	7410	8240
FFAL-015Z-CFV	ZF06K4E-PFV	2990	3500	4070	4700	5420	6210	7100	8080	9160
FFAL-015Z-TFC	ZF06K4E-TF5	3500	4050	4650	5310	6030	6810	7640	8510	9440
FFAL-015Z-TFD	ZF06K4E-TFD	3500	4050	4650	5310	6030	6810	7640	8510	9440
FFAL-017Z-CFV	ZF07KAE-PFV	3710	4350	5010	5690	6420	7200	8040	8950	9940
FFAL-017Z-TFC	ZF07KAE-TF5	3710	4350	5010	5700	6430	7200	8040	8950	9950
FFAP-030Z-CFV	ZS19KAE-PFV							7970	9050	10200
FFAP-030Z-TFD	ZS19KAE-TFD							7970	9050	10200
FFAP-030Z-TFC	ZS19KAE-TF5						7980	9060	10200	11300
FFAL-020Z-CFV	ZF08K4E-PFV	4350	5030	5790	6620	7530	8510	9570	10700	11900
FFAL-020Z-TFC	ZF08K4E-TF5	4350	5030	5790	6620	7530	8510	9570	10700	11900
FFAL-020Z-TFD	ZF08K4E-TFD	4350	5030	5790	6620	7530	8510	9570	10700	11900
FFAL-022Z-CFV	ZF09K4E-PFV	4440	5160	5950	6830	7820	8950	10200	11700	13300
FFAP-032Z-CFV	ZS21KAE-PFV							10500	12100	13700
FFAP-032Z-TFC	ZS21KAE-TF5							10500	12100	13700
FFAP-032Z-TFD	ZS21KAE-TFD							10500	12100	13700
FFAL-022Z-TFC	ZF09K4E-TF5	5020	5630	6430	7390	8460	9590	10800	11900	13100
FFAL-022Z-TFD	ZF09K4E-TFD	5020	5630	6430	7390	8460	9590	10800	11900	13100
FFAP-035Z-CFV	ZS26KAE-PFV							11500	13200	15000
FFAP-035Z-TFC	ZS26KAE-TF5							11500	13200	15000
FFAL-026Z-CFV	ZF11K4E-PFV	5500	6360	7310	8370	9580	10900	12500	14200	16200
FFAL-026Z-TFC	ZF11K4E-TF5	6170	6910	7880	9050	10400	11700	13200	14600	15900
FFAL-026Z-TFD	ZF11K4E-TFD	6170	6910	7880	9050	10400	11700	13200	14600	15900
FFAP-040Z-CFV	ZS26KAE-PFV							11900	13500	15200
FFAP-040Z-TFC	ZS26KAE-TF5							11900	13500	15200
FFAP-040Z-TFD	ZS26KAE-TFD							11900	13500	15200
FFAL-030Z-TFC	ZF13K4E-TF5	7130	7780	8700	9870	11300	12800	14500	16400	18300
FFAL-030Z-TFD	ZF13K4E-TFD	7130	7780	8700	9870	11300	12800	14500	16400	18300
FFAL-030Z-CFV	ZF13K4E-PFV	7020	7810	8880	10200	11700	13400	15200	17000	18900
FFAP-042Z-CFV	ZS33KAE-PFV							17000	19100	21200
FFAP-042Z-TFC	ZS33KAE-TF5							17000	19100	21200
FFAP-042Z-TFD	ZS33KAE-TFD							17000	19100	21200
FFAL-040Z-TFC	ZF15K4E-TF5	8760	9580	10700	12000	13600	15400	17400	19500	21800
FFAL-040Z-TFD	ZF15K4E-TFD	8760	9580	10700	12000	13600	15400	17400	19500	21800
FFAL-040Z-CFV	ZF15K4E-PFV	9040	9910	11100	12500	14200	16100	18000	20100	22300
FFAP-050Z-CFV	ZS38K4E-PFV							17000	19800	22600
FFAP-050Z-TFC	ZS38K4E-TF5							17000	19800	22600
FFAP-050Z-TFD	ZS38K4E-TFD							17000	19800	22600
FFAP-050Z-TFE	ZS38K4E-TFE							17000	19800	22600
FFAL-050Z-TFC	ZF18K4E-TF5	10500	11500	12900	14500	16300	18400	20700	23000	25500
FFAL-050Z-TFD	ZF18K4E-TFD	10500	11500	12900	14500	16300	18400	20700	23000	25500
FFAP-060Z-TFC	ZS45K4E-TF5							22100	25000	28100
FFAP-060Z-TFD	ZS45K4E-TFD							22100	25000	28100

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

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

R-407A EMT/Low Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
110° Ambient										
FFAL-010Z-CFV	ZF03KAE-PFV	1550	1750	1970	2210	2470	2760	3080	3450	3850
FFAL-010Z-TFC	ZF03KAE-TF5	1550	1750	1970	2210	2470	2760	3080	3450	3850
FFAL-013Z-CFV	ZF04KAE-PFV	1950	2160	2430	2760	3150	3600	4110	4670	5290
FFAL-013Z-TFC	ZF04KAE-TF5	1950	2160	2430	2760	3150	3600	4110	4670	5280
FFAL-014Z-CFV	ZF05KAE-PFV	2210	2480	2820	3230	3700	4230	4830	5490	6200
FFAL-014Z-TFC	ZF05KAE-TF5	2210	2480	2820	3230	3700	4230	4830	5490	6200
FFAL-015Z-CFV	ZF06KAE-PFV	2840	3300	3810	4390	5040	5780	6610	7530	8540
FFAL-015Z-TFC	ZF06KAE-TF5	3220	3730	4290	4900	5560	6260	7020	7820	8660
FFAL-015Z-TFD	ZF06KAE-TFD	3220	3730	4290	4900	5560	6260	7020	7820	8660
FFAL-017Z-CFV	ZF07KAE-PFV	3370	3980	4590	5220	5880	6580	7340	8160	9050
FFAL-017Z-TFC	ZF07KAE-TF5	3380	3980	4590	5220	5890	6590	7340	8160	9050
FFAL-020Z-CFV	ZF08KAE-PFV	4010	4640	5340	6100	6930	7810	8770	9780	10900
FFAL-020Z-TFC	ZF08KAE-TF5	4010	4640	5340	6100	6930	7810	8770	9780	10900
FFAL-020Z-TFD	ZF08KAE-TFD	4010	4640	5340	6100	6930	7810	8770	9780	10900
FFAL-022Z-CFV	ZF09KAE-PFV	4180	4800	5480	6260	7150	8170	9340	10700	12200
FFAL-022Z-TFC	ZF09KAE-TF5	4670	5260	6020	6920	7910	8960	10000	11100	12100
FFAL-022Z-TFD	ZF09KAE-TFD	4670	5260	6020	6920	7910	8960	10000	11100	12100
FFAL-026Z-CFV	ZF11KAE-PFV	5160	5870	6660	7580	8640	9860	11300	12900	14700
FFAL-026Z-TFC	ZF11KAE-TF5	5740	6440	7350	8430	9630	10900	12200	13400	14600
FFAL-026Z-TFD	ZF11KAE-TFD	5740	6440	7350	8430	9630	10900	12200	13400	14600
FFAL-030Z-TFC	ZF13KAE-TF5	6590	7060	7820	8820	10100	13000	14700	16600	
FFAL-030Z-TFD	ZF13KAE-TFD	6590	7060	7820	8820	10100	13000	14700	16600	
FFAL-030Z-CFV	ZF13KAE-PFV	6740	7390	8330	9510	14100	15800	17600		

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

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

R-407A Medium Temp/High Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
90° Ambient												
FFAM-008Z-CFV	ZB06KAE-PFV	4010	4490	5040	5660	6340	7090	7200	8020	8890	9830	10800
FFAM-008Z-TFC	ZB06KAE-TF5	4010	4490	5040	5660	6340	7090	7200	8020	8900	9830	10800
FFAM-010Z-CFV	ZB07KAE-PFV	4820	5480	6180	6930	7730	8560	8690	9570	10500	11400	12400
FFAM-010Z-TFC	ZB07KAE-TF5	4820	5480	6180	6940	7730	8560	8700	9570	10500	11400	12400
FFAM-012Z-CFV	ZB08KAE-PFV	5730	6520	7330	8160	9010	9870	10000	10900	11900	12800	13700
FFAM-012Z-TFC	ZB08KAE-TF5	5730	6520	7330	8160	9010	9880	10000	10900	11900	12800	13700
FFAP-015Z-CFV	ZS09KAE-PFV	6510	7220	7970	8780	9650	10600	10700	11800	12900	14100	15400
FFAP-015Z-TFC	ZS09KAE-TF5	6510	7220	7970	8780	9650	10600	10700	11800	12900	14100	15400
FFAP-015Z-TFD	ZS09KAE-TFD	6510	7220	7970	8780	9650	10600	10700	11800	12900	14100	15400
FFAP-017Z-CFV	ZS11KAE-PFV	7650	8470	9340	10300	11300	12300	12500	13700	15000	16300	17800
FFAP-017Z-TFC	ZS11KAE-TF5	7650	8470	9340	10300	11300	12300	12500	13700	15000	16300	17800
FFAP-017Z-TFD	ZS11KAE-TFD	7650	8470	9340	10300	11300	12300	12500	13700	15000	16300	17800
FFAP-018Z-CFV	ZS13KAE-PFV	8560	9460	10400	11400	12500	13600	13900	15100	16500	18000	19500
FFAP-020Z-CFV	ZS13KAE-PFV	8890	9840	10900	11900	13100	14400	14600	16000	17500	19200	20900
FFAP-020Z-TFC	ZS13KAE-TF5	8890	9840	10900	11900	13100	14400	14600	16000	17500	19200	20900
FFAP-020Z-TFD	ZS13KAE-TFD	8890	9840	10900	11900	13100	14400	14600	16000	17500	19200	20900
FFAP-022Z-TFC	ZS15KAE-TF5	10600	11800	13000	14300	15700	17200	17500	19100	20900	22800	24800
FFAP-022Z-CFV	ZS15KAE-PFV	10600	11800	13000	14300	15800	17300	17600	19400	21300	23400	25700
FFAP-022Z-TFD	ZS15KAE-TFD	10600	11800	13000	14300	15800	17300	17600	19400	21300	23400	25700
FFAP-030Z-CFV	ZS19KAE-PFV	12200	13500	14900	16400	18100	19900	20200	22100	24200	26500	29000
FFAP-030Z-TFD	ZS19KAE-TFD	12200	13500	14900	16400	18100	19900	20200	22100	24200	26500	29000
FFAP-030Z-TFC	ZS19KAE-TF5	12200	13600	15000	16500	18200	20000	20300	22300	24400	26700	29200
FFAP-032Z-CFV	ZS21KAE-PFV	14800	16700	18600	20600	22700	25000	25700	28200	30700	33400	36300
FFAP-032Z-TFC	ZS21KAE-TF5	14800	16700	18600	20600	22700	25000	25700	28200	30700	33400	36300
FFAP-032Z-TFD	ZS21KAE-TFD	14800	16700	18600	20600	22700	25000	25700	28200	30700	33400	36300
FFAP-035Z-CFV	ZS26KAE-PFV	16400	18500	20600	23000	25400	28100	28500	31400	34400	37600	41000
FFAP-035Z-TFC	ZS26KAE-TF5	16400	18500	20600	23000	25400	28100	28500	31400	34400	37600	41000
FFAP-040Z-CFV	ZS26KAE-PFV	18200	20200	22400	24800	27300	30100	30600	33700	37000	40600	44300
FFAP-040Z-TFC	ZS26KAE-TF5	18200	20200	22400	24800	27300	30100	30600	33700	37000	40600	44300
FFAP-040Z-TFD	ZS26KAE-TFD	18200	20200	22400	24800	27300	30100	30600	33700	37000	40600	44300
FFAP-042Z-CFV	ZS33KAE-PFV	22800	25300	28000	30900	34000	37300	39200	43100	47200	51500	57000
FFAP-042Z-TFC	ZS33KAE-TF5	22800	25300	28000	30900	34000	37300	39200	43100	47200	51500	57000
FFAP-042Z-TFD	ZS33KAE-TFD	22800	25300	28000	30900	34000	37300	39200	43100	47200	51500	57000
FFAP-050Z-CFV	ZS38K4E-PFV	26700	29700	32800	35900	39000	42100	44200	48700	53500	58000	62500
FFAP-050Z-TFC	ZS38K4E-TF5	26700	29700	32800	35900	39000	42100	44200	48700	53500	58000	62500
FFAP-050Z-TFD	ZS38K4E-TFD	26700	29700	32800	35900	39000	42100	44200	48700	53500	58000	62500
FFAP-050Z-TFE	ZS38K4E-TFE	26700	29700	32800	35900	39000	42100	44200	48700	53500	58000	62500
FFAP-060Z-TFC	ZS45K4E-TF5	30300	33900	37700	41700	45900	50000	51000	56000	60500	65500	70000
FFAP-060Z-TFD	ZS45K4E-TFD	30300	33900	37700	41700	45900	50000	51000	56000	60500	65500	70000
FFAM-071Z-TFC	ZB48KCE-TF5	31800	35900	40300	45100	50000	55500	56500	62000	68000	74000	80500
FFAM-071Z-TFD	ZB48KCE-TFD	31800	35900	40300	45100	50000	55500	56500	62000	68000	74000	80500
FFAM-081Z-TFC	ZB57KCE-TF5	36900	41300	45900	51000	56000	61500	62500	68500	74500	81000	87500
FFAM-081Z-TFD	ZB57KCE-TFD	36900	41300	45900	51000	56000	61500	62500	68500	74500	81000	87500
FFAM-091Z-TFC	ZB66K5E-TFC	39700	44800	50000	56000	62000	68500	70000	77000	84000	91000	98500
FFAM-091Z-TFD	ZB66K5E-TFD	39700	44800	50000	56000	62000	68500	70000	77000	84000	91000	98500
FFAM-101Z-TFC	ZB76K5E-TFC	47800	54000	60000	66500	72500	79000	81000	87500	94500	102000	110000
FFAM-101Z-TFD	ZB76K5E-TFD	47800	54000	60000	66500	72500	79000	81000	87500	94500	102000	110000

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-407A Medium Temp/High Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
100° Ambient												
FFAM-008Z-CFV	ZB06KAE-PFV	3740	4190	4700	5270	5900	6600	6740	7500	8310	9180	10100
FFAM-008Z-TFC	ZB06KAE-TF5	3750	4190	4700	5270	5910	6600	6740	7500	8310	9180	10100
FFAM-010Z-CFV	ZB07KAE-PFV	4390	5040	5730	6460	7210	8000	8160	8990	9840	10700	11600
FFAM-010Z-TFC	ZB07KAE-TF5	4390	5040	5730	6460	7210	8000	8160	8990	9840	10700	11600
FFAM-012Z-CFV	ZB08KAE-PFV	5320	6060	6820	7600	8400	9210	9410	10300	11100	12000	12900
FFAM-012Z-TFC	ZB08KAE-TF5	5330	6070	6820	7600	8400	9210	9410	10300	11100	12000	12900
FFAP-015Z-CFV	ZS09KAE-PFV	6050	6710	7400	8150	8950	9820	10000	11000	12000	13100	14400
FFAP-015Z-TFC	ZS09KAE-TF5	6050	6710	7400	8150	8950	9820	10000	11000	12000	13100	14400
FFAP-015Z-TFD	ZS09KAE-TFD	6050	6710	7400	8150	8950	9820	10000	11000	12000	13100	14400
FFAP-017Z-CFV	ZS13KAE-TF5	7100	7870	8660	9510	10400	11400	11600	12700	13900	15200	16600
FFAP-017Z-TFC	ZS11KAE-PFV	7100	7870	8660	9510	10400	11400	11600	12700	13900	15200	16600
FFAP-017Z-TFD	ZS11KAE-TF5	7100	7870	8660	9510	10400	11400	11600	12700	13900	15200	16600
FFAP-018Z-CFV	ZS13KAE-PFV	7940	8780	9650	10600	11600	12600	12900	14100	15300	16700	18200
FFAP-020Z-CFV	ZS13KAE-PFV	8240	9120	10100	11100	12100	13300	13600	14900	16300	17800	19400
FFAP-020Z-TFC	ZS11KAE-TFD	8240	9120	10100	11100	12100	13300	13600	14900	16300	17800	19400
FFAP-020Z-TFD	ZS13KAE-TFD	8240	9120	10100	11100	12100	13300	13600	14900	16300	17800	19400
FFAP-022Z-TFC	ZS15KAE-TF5	9870	10900	12000	13200	14500	15900	16200	17700	19400	21200	23100
FFAP-022Z-CFV	ZS15KAE-PFV	9970	11100	12200	13500	14900	16400	16700	18400	20300	22300	24600
FFAP-022Z-TFD	ZS15KAE-TFD	9970	11100	12200	13500	14900	16400	16700	18400	20300	22300	24600
FFAP-030Z-CFV	ZS19KAE-PFV	11300	12600	13900	15300	16800	18400	18800	20600	22600	24700	27100
FFAP-030Z-TFC	ZS19KAE-TF5	11300	12500	13800	15200	16700	18400	18800	20600	22600	24700	27000
FFAP-030Z-TFD	ZS19KAE-TFD	11300	12600	13900	15300	16800	18400	18800	20600	22600	24700	27100
FFAP-032Z-CFV	ZS21KAE-PFV	13700	15500	17300	19200	21200	23300	24100	26400	28800	31300	33900
FFAP-032Z-TFC	ZS21KAE-TF5	13700	15500	17300	19200	21200	23300	24100	26400	28800	31300	33900
FFAP-032Z-TFD	ZS21KAE-TFD	13700	15500	17300	19200	21200	23300	24100	26400	28800	31300	33900
FFAP-035Z-CFV	ZS26KAE-PFV	15000	16900	19000	21200	23500	26000	26600	29300	32100	35200	38400
FFAP-035Z-TFC	ZS26KAE-TF5	15000	16900	19000	21200	23500	26000	26600	29300	32100	35200	38400
FFAP-040Z-CFV	ZS26KAE-PFV	17000	18800	20900	23000	25400	28000	28600	31500	34600	37800	41300
FFAP-040Z-TFC	ZS26KAE-TF5	17000	18800	20900	23000	25400	28000	28600	31500	34600	37800	41300
FFAP-040Z-TFD	ZS26KAE-TFD	17000	18800	20900	23000	25400	28000	28600	31500	34600	37800	41300
FFAP-042Z-CFV	ZS33KAE-PFV	21200	23600	26000	28700	31600	34700	36900	40500	44400	48500	53500
FFAP-042Z-TFC	ZS33KAE-TF5	21200	23600	26000	28700	31600	34700	36900	40500	44400	48500	53500
FFAP-042Z-TFD	ZS33KAE-TFD	21200	23600	26000	28700	31600	34700	36900	40500	44400	48500	53500
FFAP-050Z-CFV	ZS38K4E-PFV	25500	28400	31400	34400	37400	40300	41300	45600	50000	54500	59000
FFAP-050Z-TFC	ZS38K4E-TF5	25500	28400	31400	34400	37400	40300	41300	45600	50000	54500	59000
FFAP-050Z-TFD	ZS38K4E-TFD	25500	28400	31400	34400	37400	40300	41300	45600	50000	54500	59000
FFAP-050Z-TFE	ZS38K4E-TFE	25500	28400	31400	34400	37400	40300	41300	45600	50000	54500	59000
FFAP-060Z-TFC	ZS45K4E-TF5	28100	31500	35000	38800	42700	46800	47900	52000	56500	61000	66000
FFAP-060Z-TFD	ZS45K4E-TFD	28100	31500	35000	38800	42700	46800	47900	52000	56500	61000	66000
FFAM-071Z-TFC	ZB48KCE-TF5	29100	32900	36900	41300	46000	51000	52000	57500	63000	68500	74500
FFAM-071Z-TFD	ZB48KCE-TFD	29100	32900	36900	41300	46000	51000	52000	57500	63000	68500	74500
FFAM-081Z-TFC	ZB57KCE-TF5	34100	38200	42500	47000	52000	57000	58000	63500	69000	75000	81500
FFAM-081Z-TFD	ZB57KCE-TFD	34100	38200	42500	47000	52000	57000	58000	63500	69000	75000	81500
FFAM-091Z-TFC	ZB66K5E-TFC	36700	41100	46000	51000	57000	62500	64500	70500	77500	84000	
FFAM-091Z-TFD	ZB66K5E-TFD	36700	41100	46000	51000	57000	62500	64500	70500	77500	84000	
FFAM-101Z-TFC	ZB76K5E-TFC	43500	49700	55500	61500	67500	73000	75000	81000			
FFAM-101Z-TFD	ZB76K5E-TFD	43500	49700	55500	61500	67500	73000	75000	81000			

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-407A Medium Temp/High Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
110° Ambient												
FFAM-008Z-CFV	ZB06KAE-PFV	3480	3890	4360	4880	5470	6100	6270	6970	7720	8530	9380
FFAM-008Z-TFC	ZB06KAE-TF5	3490	3890	4360	4890	5470	6100	6270	6970	7720	8530	9380
FFAM-010Z-CFV	ZB07KAE-PFV	3920	4570	5250	5960	6690	7430	7630	8410	9210	10000	10800
FFAM-010Z-TFC	ZB07KAE-TF5	3920	4570	5250	5960	6680	7430	7630	8410	9210	10000	10800
FFAM-012Z-CFV	ZB08KAE-PFV	4920	5600	6310	7030	7770	8520	8750	9550	10400	11200	12000
FFAM-012Z-TFC	ZB08KAE-TF5	4920	5600	6310	7030	7770	8520	8750	9540	10400	11200	12000
FFAP-015Z-CFV	ZS09KAE-PFV			6840	7520	8250	9050	9270	10200	11100	12200	13300
FFAP-015Z-TFC	ZS09KAE-TF5			6840	7520	8250	9050	9270	10200	11100	12200	13300
FFAP-015Z-TFD	ZS09KAE-TFD			6840	7520	8250	9050	9270	10200	11100	12200	13300
FFAP-017Z-CFV	ZS13KAE-TF5		7270	8000	8770	9610	10500	10800	11800	12900	14100	15400
FFAP-017Z-TFC	ZS11KAE-PFV		7270	8000	8770	9610	10500	10800	11800	12900	14100	15400
FFAP-017Z-TFD	ZS11KAE-TF5		7270	8000	8770	9610	10500	10800	11800	12900	14100	15400
FFAP-018Z-CFV	ZS13KAE-PFV		8110	8900	9740	10600	11600	11900	13000	14200	15500	16800
FFAP-020Z-CFV	ZS13KAE-PFV	7580	8370	9210	10100	11100	12100	12500	13700	15000	16400	17900
FFAP-020Z-TFC	ZS11KAE-TFD	7580	8370	9210	10100	11100	12100	12500	13700	15000	16400	17900
FFAP-020Z-TFD	ZS13KAE-TFD	7580	8370	9210	10100	11100	12100	12500	13700	15000	16400	17900
FFAP-022Z-CFV	ZS15KAE-PFV		10400	11500	12700	14100	15500	15900	17500	19300	21300	23500
FFAP-022Z-TFC	ZS15KAE-TF5		10400	11500	12700	14100	15500	15900	17500	19300	21300	23500
FFAP-022Z-TFD	ZS15KAE-TFD		10400	11500	12700	14100	15500	15900	17500	19300	21300	23500
FFAP-030Z-TFC	ZS19KAE-TF5	10400	11500	12700	13900	15300	16700	17200	18900	20700	22700	24800
FFAP-030Z-CFV	ZS19KAE-PFV	10500	11600	12800	14100	15500	17000	17400	19100	20900	22900	25100
FFAP-030Z-TFD	ZS19KAE-TFD	10500	11600	12800	14100	15500	17000	17400	19100	20900	22900	25100
FFAP-032Z-CFV	ZS21KAE-PFV		14700	16400	18100	20000	21900	22900	25000	27200	29500	32000
FFAP-032Z-TFC	ZS21KAE-TF5		14700	16400	18100	20000	21900	22900	25000	27200	29500	32000
FFAP-032Z-TFD	ZS21KAE-TFD		14700	16400	18100	20000	21900	22900	25000	27200	29500	32000
FFAP-035Z-CFV	ZS26KAE-PFV		15400	17300	19400	21600	23900	24600				
FFAP-035Z-TFC	ZS26KAE-TF5		15400	17300	19400	21600	23900	24600				
FFAP-040Z-CFV	ZS26KAE-PFV	15700	17400	19300	21300	23500	25800	26800	29400	32300	35300	38500
FFAP-040Z-TFC	ZS26KAE-TF5	15700	17400	19300	21300	23500	25800	26800	29400	32300	35300	38500
FFAP-040Z-TFD	ZS26KAE-TFD	15700	17400	19300	21300	23500	25800	26800	29400	32300	35300	38500
FFAP-042Z-CFV	ZS33KAE-PFV	19600	21800	24100	26500	29100	32000	34900	38300	41900	45700	50000
FFAP-042Z-TFC	ZS33KAE-TF5	19600	21800	24100	26500	29100	32000	34900	38300	41900	45700	50000
FFAP-042Z-TFD	ZS33KAE-TFD	19600	21800	24100	26500	29100	32000	34900	38300	41900	45700	50000
FFAP-050Z-CFV	ZS38K4E-PFV	23800	26800	29700	32700	35600	38400	38300	42400	46600	51000	55000
FFAP-050Z-TFC	ZS38K4E-TF5	23800	26800	29700	32700	35600	38400	38300	42400	46600	51000	55000
FFAP-050Z-TFD	ZS38K4E-TFD	23800	26800	29700	32700	35600	38400	38300	42400	46600	51000	55000
FFAP-050Z-TFE	ZS38K4E-TFE	23800	26800	29700	32700	35600	38400	38300	42400	46600	51000	55000
FFAP-060Z-TFC	ZS45K4E-TF5	25900	29000	32300	35700	39300	43100	44400	48400			
FFAP-060Z-TFD	ZS45K4E-TFD	25900	29000	32300	35700	39300	43100	44400	48400			
FFAM-071Z-TFC	ZB48KCE-TF5	26300	29800	33500	37400	41700	46200	47600	52500	57500		
FFAM-071Z-TFD	ZB48KCE-TFD	26300	29800	33500	37400	41700	46200	47600	52500	57500		
FFAM-081Z-TFC	ZB57KCE-TF5		34900	38800	43000	47400	52000	53500				
FFAM-081Z-TFD	ZB57KCE-TFD		34900	38800	43000	47400	52000	53500				
FFAM-091Z-TFC	ZB66K5E-TFC		37900	42100	46700	51500						
FFAM-091Z-TFD	ZB66K5E-TFD		37900	42100	46700	51500						
FFAM-101Z-TFC	ZB76K5E-TFC			51000								
FFAM-101Z-TFD	ZB76K5E-TFD			51000								

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 EMT/Low Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
90° Ambient										
FFAL-010Z-CFV	ZF03KAE-PFV	1700	1890	2110	2350	2640	2960	3330	3750	4230
FFAL-010Z-TFC	ZF03KAE-TF5	1700	1890	2110	2350	2640	2960	3330	3750	4230
FFAL-013Z-CFV	ZF04KAE-PFV	2050	2300	2610	2980	3420	3920	4480	5100	5780
FFAL-013Z-TFC	ZF04KAE-TF5	2050	2300	2610	2980	3420	3920	4480	5100	5780
FFAL-014Z-CFV	ZF05KAE-PFV	2330	2660	3050	3520	4050	4650	5310	6030	6810
FFAL-014Z-TFC	ZF05KAE-TF5	2330	2660	3050	3520	4050	4650	5310	6030	6810
FFAL-015Z-CFV	ZF06K4E-PFV	3030	3560	4150	4810	5550	6370	7290	8300	9410
FFAL-015Z-TFC	ZF06K4E-TF5	3480	4050	4660	5320	6040	6820	7680	8620	9650
FFAL-015Z-TFD	ZF06K4E-TFD	3480	4050	4660	5320	6040	6820	7680	8620	9650
FFAL-017Z-CFV	ZF07KAE-PFV	3590	4310	4990	5660	6360	7100	7930	8870	9950
FFAL-017Z-TFC	ZF07KAE-TF5	3590	4310	4990	5660	6360	7110	7930	8870	9950
FFAL-020Z-CFV	ZF08K4E-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information								
FFAL-020Z-TFC	ZF08K4E-TF5									
FFAL-020Z-TFD	ZF08K4E-TFD									
FFAL-022Z-CFV	ZF09K4E-PFV	4320	5070	5890	6800	7820	8970	10300	11700	13400
FFAL-022Z-TFC	ZF09K4E-TF5	4940	5600	6410	7360	8420	9580	10800	12000	13300
FFAL-022Z-TFD	ZF09K4E-TFD	4940	5600	6410	7360	8420	9580	10800	12000	13300
FFAL-026Z-CFV	ZF11K4E-PFV	5350	6260	7260	8380	9640	11100	12600	14500	16500
FFAL-026Z-TFC	ZF11K4E-TF5	5350	6260	7260	8380	9640	11100	12600	14500	16500
FFAL-026Z-TFD	ZF11K4E-TFD	5350	6260	7260	8380	9640	11100	12600	14500	16500
FFAL-030Z-CFV	ZF13K4E-PFV	6990	7810	8920	10300	11800	13600	15400	17400	19400
FFAL-030Z-TFC	ZF13K4E-TF5	6950	7640	8630	9850	11300	12900	14700	16600	18500
FFAL-030Z-TFD	ZF13K4E-TFD	6950	7640	8630	9850	11300	12900	14700	16600	18500
FFAL-040Z-CFV	ZF15K4E-PFV	8990	9920	11200	12700	14500	16400	18500	20700	23000
FFAL-040Z-TFC	ZF15K4E-TF5	8720	9550	10700	12100	13800	15700	17800	20000	22300
FFAL-040Z-TFD	ZF15K4E-TFD	8720	9550	10700	12100	13800	15700	17800	20000	22300
FFAL-050Z-TFC	ZF18K4E-TF5	10500	11500	12900	14600	16600	18700	21100	23600	26200
FFAL-050Z-TFD	ZF18K4E-TFD	10500	11500	12900	14600	16600	18700	21100	23600	26200
100° Ambient										
FFAL-010Z-CFV	ZF03KAE-PFV	1610	1790	1990	2220	2480	2780	3120	3510	3940
FFAL-010Z-TFC	ZF03KAE-TF5	1610	1790	1990	2220	2480	2780	3120	3510	3950
FFAL-013Z-CFV	ZF04KAE-PFV	1960	2180	2460	2800	3200	3660	4180	4760	5390
FFAL-013Z-TFC	ZF04KAE-TF5	1960	2170	2450	2800	3200	3660	4180	4760	5390
FFAL-014Z-CFV	ZF05KAE-PFV	2210	2500	2870	3290	3790	4340	4950	5630	6350
FFAL-014Z-TFC	ZF05KAE-TF5	2210	2500	2870	3290	3780	4340	4950	5630	6350
FFAL-015Z-CFV	ZF06K4E-PFV	2860	3350	3900	4510	5210	5990	6860	7820	8890
FFAL-015Z-TFC	ZF06K4E-TF5	3260	3810	4390	5020	5690	6420	7210	8080	9030
FFAL-015Z-TFD	ZF06K4E-TFD	3260	3810	4390	5020	5690	6420	7210	8080	9030
FFAL-017Z-CFV	ZF07KAE-PFV	3350	4050	4700	5330	5970	6650	7410	8270	9270
FFAL-017Z-TFC	ZF07KAE-TF5	3350	4060	4700	5330	5970	6660	7410	8270	9270
FFAL-020Z-CFV	ZF08K4E-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information								
FFAL-020Z-TFC	ZF08K4E-TF5									
FFAL-020Z-TFD	ZF08K4E-TFD									
FFAL-022Z-CFV	ZF09K4E-PFV	4120	4790	5530	6370	7310	8390	9620	11000	12600
FFAL-022Z-TFC	ZF09K4E-TF5	4640	5270	6050	6950	7950	9020	10100	11300	12400
FFAL-022Z-TFD	ZF09K4E-TFD	4640	5270	6050	6950	7950	9020	10100	11300	12400
FFAL-026Z-CFV	ZF11K4E-PFV	5120	5920	6810	7820	8980	10300	11800	13500	15400
FFAL-026Z-TFC	ZF11K4E-TF5	5120	5920	6810	7820	8980	10300	11800	13500	15400
FFAL-026Z-TFD	ZF11K4E-TFD	5120	5920	6810	7820	8980	10300	11800	13500	15400
FFAL-030Z-CFV	ZF13K4E-PFV	6570	7290	8300	9560	11000	12700	14400	16300	18200
FFAL-030Z-TFC	ZF13K4E-TF5	6550	7110	7950	9060	10400	11900	13600	15400	17300
FFAL-030Z-TFD	ZF13K4E-TFD	6550	7110	7950	9060	10400	11900	13600	15400	17300
FFAL-040Z-CFV	ZF15K4E-PFV	8450	9260	10400	11800	13400	15300	17200	19300	21500
FFAL-040Z-TFC	ZF15K4E-TF5	8080	8790	9820	11100	12700	14500	16400	18500	20700
FFAL-040Z-TFD	ZF15K4E-TFD	8080	8790	9820	11100	12700	14500	16400	18500	20700
FFAL-050Z-TFC	ZF18K4E-TF5	9780	10700	11900	13500	15300	17400	19600	22000	24400
FFAL-050Z-TFD	ZF18K4E-TFD	9780	10700	11900	13500	15300	17400	19600	22000	24400

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

R-407C EMT/Low Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
110° Ambient										
FFAL-013Z-CFV	ZF04KAE-PFV	1870	2060	2310	2620	2990	3410	3890	4420	5000
FFAL-013Z-TFC	ZF04KAE-TF5	1870	2060	2310	2620	2980	3410	3890	4420	5000
FFAL-014Z-CFV	ZF05KAE-PFV	2090	2360	2680	3070	3530	4040	4600	5220	5900
FFAL-014Z-TFC	ZF05KAE-TF5	2090	2360	2680	3070	3520	4030	4600	5220	5900
FFAL-015Z-CFV	ZF06K4E-PFV	2730	3170	3670	4240	4890	5610	6430	7340	8360
FFAL-015Z-TFC	ZF06K4E-TF5	3020	3540	4090	4670	5300	5960	6690	7480	8340
FFAL-015Z-TFD	ZF06K4E-TFD	3020	3540	4090	4670	5300	5960	6690	7480	8340
FFAL-017Z-CFV	ZF07KAE-PFV	3110	3790	4410	4990	5580	6200	6890	7670	8570
FFAL-017Z-TFC	ZF07KAE-TF5	3110	3790	4410	4990	5580	6200	6890	7670	8570
FFAL-020Z-CFV	ZF08K4E-PFV	Data not available at time of printing. See Emerson.com/OPI for updated information								
FFAL-020Z-TFC	ZF08K4E-TF5									
FFAL-020Z-TFD	ZF08K4E-TFD									
FFAL-022Z-CFV	ZF09K4E-PFV	3880	4460	5110	5850	6720	7710	8860	10200	11700
FFAL-022Z-TFC	ZF09K4E-TF5	4380	4980	5720	6560	7490	8480	9510	10500	11600
FFAL-022Z-TFD	ZF09K4E-TFD	4380	4980	5720	6560	7490	8480	9510	10500	11600
FFAL-026Z-CFV	ZF11K4E-PFV	4800	5470	6230	7120	8150	9350	10700	12300	14100
FFAL-026Z-TFC	ZF11K4E-TF5	4800	5470	6230	7120	8150	9350	10700	12300	14100
FFAL-026Z-TFD	ZF11K4E-TFD	4800	5470	6230	7120	8150	9350	10700	12300	14100
FFAL-030Z-CFV	ZF13K4E-PFV	6370	6970	7860	9000	13500	15200	17000		
FFAL-030Z-TFC	ZF13K4E-TF5	6120	6520	7220	8190	12300	14000	15800		
FFAL-030Z-TFD	ZF13K4E-TFD	6120	6520	7220	8190	12300	14000	15800		
FFAL-040Z-CFV	ZF15K4E-PFV	7960	8650							19900
FFAL-040Z-TFC	ZF15K4E-TF5	7270	7860							18900
FFAL-040Z-TFD	ZF15K4E-TFD	7270	7860							18900
FFAL-050Z-TFC	ZF18K4E-TF5									
FFAL-050Z-TFD	ZF18K4E-TFD									

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

R-407C Medium Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
90° Ambient												
FFAM-008Z-CFV	ZB06KAE-PFV	3630	4160	4730	5330	5980	6680	6760	7510	8300	9150	10100
FFAM-008Z-TFC	ZB06KAE-TF5	3630	4160	4730	5330	5980	6680	6760	7510	8310	9160	10100
FFAM-010Z-CFV	ZB07KAE-PFV	4360	4970	5620	6330	7090	7910	8010	8870	9790	10700	11700
FFAM-010Z-TFC	ZB07KAE-TF5	4360	4970	5630	6340	7100	7910	8010	8870	9780	10700	11700
FFAM-012Z-CFV	ZB08KAE-PFV	5190	5860	6580	7360	8190	9090	9210	10200	11200	12300	13500
FFAM-012Z-TFC	ZB08KAE-TF5	5190	5860	6580	7360	8190	9090	9210	10200	11200	12300	13500
FFAP-015Z-CFV	ZS09KAE-PFV	5770	6630	7520	8440	9390	10400	10400	11400	12500	13600	14800
FFAP-015Z-TFC	ZS09KAE-TF5	5770	6630	7520	8440	9390	10400	10400	11400	12500	13600	14800
FFAP-015Z-TFD	ZS09KAE-TFD	5770	6630	7520	8440	9390	10400	10400	11400	12500	13600	14800
FFAP-017Z-CFV	ZS11KAE-PFV		7560	8590	9640	10700	11800	12500	13700	14900	16200	17500
FFAP-017Z-TFC	ZS11KAE-TF5		7560	8590	9640	10700	11800	12500	13700	14900	16200	17500
FFAP-017Z-TFD	ZS11KAE-TFD		7560	8590	9640	10700	11800	12500	13700	14900	16200	17500
FFAP-018Z-CFV	ZS13KAE-PFV	7460	8610	9770	11000	12200	13400	13600	14900	16200	17600	18900
FFAP-020Z-CFV	ZS13KAE-PFV	7660	8840	10100	11300	12600	13900	14100	15500	17000	18500	20000
FFAP-020Z-TFC	ZS13KAE-TF5	7660	8840	10100	11300	12600	13900	14100	15500	17000	18500	20000
FFAP-020Z-TFD	ZS13KAE-TFD	7660	8840	10100	11300	12600	13900	14100	15500	17000	18500	20000
FFAP-022Z-CFV	ZS15KAE-PFV	9160	10600	12000	13500	15000	16600	16800	18400	20100	21800	23600
FFAP-022Z-TFC	ZS15KAE-TF5	9160	10600	12000	13500	15000	16600	16800	18400	20100	21800	23600
FFAP-022Z-TFD	ZS15KAE-TFD	9160	10600	12000	13500	15000	16600	16800	18400	20100	21800	23600
FFAP-030Z-TFC	ZS19KAE-TF5	10500	12100	13800	15600	17400	19200	19500	21500	23500	25600	27900
FFAP-030Z-CFV	ZS19KAE-PFV	10800	12400	14000	15800	17600	19400	19700	21700	23700	26100	28700
FFAP-030Z-TFD	ZS19KAE-TFD	10800	12400	14000	15800	17600	19400	19700	21700	23700	26100	28700
FFAP-032Z-CFV	ZS21KAE-PFV	14200	16300	18400	20600	22900	25300	25400	27900	30400	33000	35800
FFAP-032Z-TFC	ZS21KAE-TF5	14200	16300	18400	20600	22900	25300	25400	27900	30400	33000	35800
FFAP-032Z-TFD	ZS21KAE-TFD	14200	16300	18400	20600	22900	25300	25400	27900	30400	33000	35800
FFAP-035Z-TFC	ZS26KAE-TF5	15200	17600	20000	22400	25000	27500	28000	30700	33400	36300	39200
FFAP-035Z-CFV	ZS26KAE-PFV	15800	18100	20500	23000	25500	28100	28400	31100	33900	36800	39700
FFAP-040Z-TFC	ZS26KAE-TF5	16000	18500	21000	23700	26500	29400	29700	32800	36000	39300	42800
FFAP-040Z-CFV	ZS26KAE-PFV	16300	18800	21300	24000	26800	29700	30700	33800	37100	41000	45200
FFAP-040Z-TFD	ZS26KAE-TFD	16300	18800	21300	24000	26800	29700	30700	33800	37100	41000	45200
FFAP-042Z-CFV	ZS33KAE-PFV	19400	22300	25400	28600	31900	35300	36300	39900	43800	47700	51900
FFAP-042Z-TFC	ZS33KAE-TF5	19600	22600	25800	29000	32400	35900	36300	40000	43800	47800	52000
FFAP-042Z-TFD	ZS33KAE-TFD	19400	22300	25400	28600	31900	35300	36300	39900	43800	47700	51900
FFAP-050Z-CFV	ZS38K4E-PFV	25000	28100	31300	34800	38400	42100	42700	46600	50500	54500	59000
FFAP-050Z-TFC	ZS38K4E-TF5	25000	28100	31300	34800	38400	42100	42700	46600	50500	54500	59000
FFAP-050Z-TFD	ZS38K4E-TFD	25000	28100	31300	34800	38400	42100	42700	46600	50500	54500	59000
FFAP-050Z-TFE	ZS38K4E-TFE	25000	28100	31300	34800	38400	42100	42700	46600	50500	54500	59000
FFAM-071Z-TFC	ZB48KCE-TF5							49900	56000	62000	68500	75500
FFAM-071Z-TFD	ZB48KCE-TFD							49900	56000	62000	68500	75500
FFAP-060Z-TFC	ZS45K4E-TF5	30300	33900	37700	41700	45900	50000	50500	55000	59500	64500	69000
FFAP-060Z-TFD	ZS45K4E-TFD	30300	33900	37700	41700	45900	50000	50500	55000	59500	64500	69000
FFAM-081Z-TFC	ZB57KCE-TF5							60000	66000	72500	79500	87000
FFAM-081Z-TFD	ZB57KCE-TFD							60000	66000	72500	79500	87000
FFAM-091Z-TFC	ZB66K5E-TFC							69500	76500	84000	92500	101000
FFAM-091Z-TFD	ZB66K5E-TFD							69500	76500	84000	92500	101000
FFAM-101Z-TFC	ZB76K5E-TFC		52500	58500	65000	71500	79000	80000	87500	96000	104000	113000
FFAM-101Z-TFD	ZB76K5E-TFD		52500	58500	65000	71500	79000	80000	87500	96000	104000	113000

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 Medium Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
100° Ambient												
FFAM-008Z-CFV	ZB06KAE-PFV	3370	3880	4410	4980	5590	6230	6340	7030	7770	8560	9400
FFAM-008Z-TFC	ZB06KAE-TF5	3370	3880	4410	4980	5590	6230	6340	7030	7780	8570	9410
FFAM-010Z-CFV	ZB07KAE-PFV	4050	4630	5250	5910	6620	7370	7490	8290	9130	10000	10900
FFAM-010Z-TFC	ZB07KAE-TF5	4050	4640	5260	5920	6620	7370	7500	8290	9130	10000	10900
FFAM-012Z-TFC	ZB08KAE-TF5	4870	5500	6160	6880	7640	8450	8600	9490	10400	11400	12500
FFAM-012Z-CFV	ZB08KAE-PFV	4870	5500	6160	6880	7640	8450	8610	9490	10400	11400	12500
FFAP-015Z-CFV	ZS09KAE-PFV		6230	7080	7950	8850	9780	9830	10800	11800	12800	13900
FFAP-015Z-TFC	ZS09KAE-TF5		6230	7080	7950	8850	9780	9830	10800	11800	12800	13900
FFAP-015Z-TFD	ZS09KAE-TFD		6230	7080	7950	8850	9780	9830	10800	11800	12800	13900
FFAP-017Z-CFV	ZS11KAE-PFV			8050	9060	10100	11100	11800	12900	14100	15300	16500
FFAP-017Z-TFC	ZS11KAE-TF5			8050	9060	10100	11100	11800	12900	14100	15300	16500
FFAP-017Z-TFD	ZS11KAE-TFD			8050	9060	10100	11100	11800	12900	14100	15300	16500
FFAP-018Z-CFV	ZS13KAE-PFV	6890	8010	9130	10300	11400	12600	12800	14000	15300	16500	17800
FFAP-020Z-CFV	ZS13KAE-PFV	7080	8240	9420	10600	11800	13100	13300	14700	16000	17400	18800
FFAP-020Z-TFC	ZS13KAE-TF5	7080	8240	9420	10600	11800	13100	13300	14700	16000	17400	18800
FFAP-020Z-TFD	ZS13KAE-TFD	7080	8240	9420	10600	11800	13100	13300	14700	16000	17400	18800
FFAP-022Z-CFV	ZS15KAE-PFV	8500	9870	11300	12700	14100	15600	15800	17400	19000	20600	22300
FFAP-022Z-TFC	ZS15KAE-TF5	8500	9870	11300	12700	14100	15600	15800	17400	19000	20600	22300
FFAP-022Z-TFD	ZS15KAE-TFD	8500	9870	11300	12700	14100	15600	15800	17400	19000	20600	22300
FFAP-030Z-CFV	ZS19KAE-PFV	9720	11300	12900	14600	16300	18100	18400	20200	22100	24100	26200
FFAP-030Z-TFC	ZS19KAE-TF5	9720	11300	12900	14600	16300	18100	18400	20200	22100	24100	26200
FFAP-030Z-TFD	ZS19KAE-TFD	9720	11300	12900	14600	16300	18100	18400	20200	22100	24100	26200
FFAP-032Z-CFV	ZS21KAE-PFV			17300	19400	21600	23800	24000	26300	28700	31200	33700
FFAP-032Z-TFC	ZS21KAE-TF5			17300	19400	21600	23800	24000	26300	28700	31200	33700
FFAP-032Z-TFD	ZS21KAE-TFD			17300	19400	21600	23800	24000	26300	28700	31200	33700
FFAP-035Z-TFC	ZS26KAE-TF5	14000	16300	18600	21000	23400	25800	26300	28800	31400	34000	36700
FFAP-035Z-CFV	ZS26KAE-PFV	14700	16900	19200	21600	24000	26400	26800	29300	32000	34600	37400
FFAP-040Z-CFV	ZS26KAE-PFV	14800	17300	19800	22300	25000	27700	28100	31000	34000	37100	40400
FFAP-040Z-TFC	ZS26KAE-TF5	14800	17300	19800	22300	25000	27700	28100	31000	34000	37100	40400
FFAP-040Z-TFD	ZS26KAE-TFD	14800	17300	19800	22300	25000	27700	28100	31000	34000	37100	40400
FFAP-042Z-CFV	ZS33KAE-PFV	18200	21100	24200	27300	30500	33800	34300	37800	41400	45100	48900
FFAP-042Z-TFC	ZS33KAE-TF5	18200	21100	24200	27300	30500	33800	34300	37800	41400	45100	48900
FFAP-042Z-TFD	ZS33KAE-TFD	18200	21100	24200	27300	30500	33800	34300	37800	41400	45100	48900
FFAP-050Z-CFV	ZS38K4E-PFV	23100	26000	29100	32300	35700	39200	39900	43600	47400	51500	55000
FFAP-050Z-TFC	ZS38K4E-TF5	23100	26000	29100	32300	35700	39200	39900	43600	47400	51500	55000
FFAP-050Z-TFD	ZS45K4E-TF5	23100	26000	29100	32300	35700	39200	39900	43600	47400	51500	55000
FFAP-050Z-TFE	ZS38K4E-TFD	23100	26000	29100	32300	35700	39200	39900	43600	47400	51500	55000
FFAM-071Z-TFC	ZB48KCE-TF5							46200	52000	57500	64000	70500
FFAM-071Z-TFD	ZB48KCE-TFD							46200	52000	57500	64000	70500
FFAP-060Z-TFC	ZS38K4E-TFE	28100	31500	35000	38800	42700	46800	47100	51500	56000	60500	65000
FFAP-060Z-TFD	ZS45K4E-TFD	28100	31500	35000	38800	42700	46800	47100	51500	56000	60500	65000
FFAM-081Z-TFC	ZB57KCE-TF5							56000	62000	68500	75000	82000
FFAM-081Z-TFD	ZB57KCE-TFD							56000	62000	68500	75000	82000
FFAM-091Z-TFC	ZB66K5E-TFC							65000	72000	79000	87000	
FFAM-091Z-TFD	ZB66K5E-TFD							65000	72000	79000	87000	
FFAM-101Z-TFC	ZB76K5E-TFC			55000	60500	67000	73500	75000	82500			
FFAM-101Z-TFD	ZB76K5E-TFD			55000	60500	67000	73500	75000	82500			

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 Medium Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
110° Ambient												
FFAM-008Z-CFV	ZB06KAE-PFV	3120	3610	4110	4650	5210	5800	5930	6570	7260	7980	8750
FFAM-008Z-TFC	ZB06KAE-TF5	3120	3610	4110	4640	5210	5800	5930	6570	7260	7980	8750
FFAM-010Z-CFV	ZB07KAE-PFV	3760	4310	4890	5510	6160	6840	7000	7730	8490	9290	10100
FFAM-010Z-TFC	ZB07KAE-TF5	3760	4320	4900	5520	6170	6850	7000	7730	8490	9280	10100
FFAM-012Z-CFV	ZB08KAE-PFV	4590	5180	5790	6440	7130	7860	8040	8840	9680	10600	11500
FFAM-012Z-TFC	ZB08KAE-TF5	4590	5180	5790	6440	7130	7860	8040	8830	9680	10600	11500
FFAP-015Z-CFV	ZS09KAE-PFV				7430	8290	9160	9290	10200	11200	12200	13200
FFAP-015Z-TFC	ZS09KAE-TF5				7430	8290	9160	9290	10200	11200	12200	13200
FFAP-015Z-TFD	ZS09KAE-TFD				7430	8290	9160	9290	10200	11200	12200	13200
FFAP-017Z-CFV	ZS11KAE-PFV					9420	10400	10900	11900	13000	14200	15300
FFAP-017Z-TFC	ZS11KAE-TF5					9420	10400	10900	11900	13000	14200	15300
FFAP-017Z-TFD	ZS11KAE-TFD					9420	10400	10900	11900	13000	14200	15300
FFAP-018Z-CFV	ZS13KAE-PFV		7340	8430	9520	10600	11700	12000	13100	14300	15500	16700
FFAP-020Z-CFV	ZS13KAE-PFV			8710	9870	11000	12200	12500	13800	15000	16300	17600
FFAP-020Z-TFC	ZS13KAE-TF5			8710	9870	11000	12200	12500	13800	15000	16300	17600
FFAP-020Z-TFD	ZS13KAE-TFD			8710	9870	11000	12200	12500	13800	15000	16300	17600
FFAP-022Z-CFV	ZS15KAE-PFV	7740	9090	10400	11800	13200	14600	14900	16300	17800	19300	20900
FFAP-022Z-TFC	ZS15KAE-TF5	7740	9090	10400	11800	13200	14600	14900	16300	17800	19300	20900
FFAP-022Z-TFD	ZS15KAE-TFD	7740	9090	10400	11800	13200	14600	14900	16300	17800	19300	20900
FFAP-030Z-CFV	ZS19KAE-PFV		10400	12000	13500	15200	16800	17200	18900	20700	22500	24400
FFAP-030Z-TFC	ZS19KAE-TF5		10400	12000	13500	15200	16800	17200	18900	20700	22500	24400
FFAP-030Z-TFD	ZS19KAE-TFD		10400	12000	13500	15200	16800	17200	18900	20700	22500	24400
FFAP-032Z-CFV	ZS21KAE-PFV				18100	20100	22200	22500	24700	27000	29300	31700
FFAP-032Z-TFC	ZS21KAE-TF5				18100	20100	22200	22500	24700	27000	29300	31700
FFAP-032Z-TFD	ZS21KAE-TFD				18100	20100	22200	22500	24700	27000	29300	31700
FFAP-035Z-CFV	ZS26KAE-PFV			17100	19300	21600	23900	24400	26800	29200	31700	34200
FFAP-035Z-TFC	ZS26KAE-TF5			17100	19300	21600	23900	24400	26800	29200	31700	34200
FFAP-040Z-CFV	ZS26KAE-PFV		16000	18400	20900	23400	26000	26500	29200	32100	35000	38000
FFAP-040Z-TFC	ZS26KAE-TF5		16000	18400	20900	23400	26000	26500	29200	32100	35000	38000
FFAP-040Z-TFD	ZS26KAE-TFD		16000	18400	20900	23400	26000	26500	29200	32100	35000	38000
FFAP-042Z-CFV	ZS33KAE-PFV		19500	22500	25500	28600	31700	32300	35600	39000	42500	46000
FFAP-042Z-TFC	ZS33KAE-TF5		19500	22500	25500	28600	31700	32300	35600	39000	42500	46000
FFAP-042Z-TFD	ZS33KAE-TFD		19500	22500	25500	28600	31700	32300	35600	39000	42500	46000
FFAP-050Z-CFV	ZS38K4E-PFV	21400	24000	26800	29900	33000	36300	37100	40600	44200	47800	51500
FFAP-050Z-TFC	ZS38K4E-TF5	21400	24000	26800	29900	33000	36300	37100	40600	44200	47800	51500
FFAP-050Z-TFD	ZS38K4E-TFD	21400	24000	26800	29900	33000	36300	37100	40600	44200	47800	51500
FFAP-050Z-TFE	ZS38K4E-TFE	21400	24000	26800	29900	33000	36300	37100	40600	44200	47800	51500
FFAP-060Z-TFC	ZS45K4E-TF5	25900	29000	32300	35700	39300	43100	43800	47800	52000	56000	60500
FFAP-060Z-TFD	ZS45K4E-TFD	25900	29000	32300	35700	39300	43100	43800	47800	52000	56000	60500
FFAM-071Z-TFC	ZB48KCE-TF5									53000	59000	65000
FFAM-071Z-TFD	ZB48KCE-TFD									53000	59000	65000
FFAM-081Z-TFC	ZB57KCE-TF5									63500	70000	76500
FFAM-081Z-TFD	ZB57KCE-TFD									63500	70000	76500

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-448A/449A Low Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
90° Ambient										
FFAL-010Z-CFV	ZF03KAE-PFV	1840	2080	2330	2620	2930	3290	3690	4140	4650
FFAL-010Z-TFC	ZF03KAE-TF5	1840	2080	2330	2620	2930	3290	3690	4140	4650
FFAP-015Z-CFV	ZS09KAE-PFV				3220	3720	4250	4800	5390	6030
FFAP-015Z-TFC	ZS09KAE-TF5				3220	3720	4250	4800	5390	6030
FFAP-015Z-TFD	ZS09KAE-TFD				3220	3720	4250	4800	5390	6030
FFAL-013Z-CFV	ZF04KAE-PFV	2280	2580	2940	3360	3850	4390	4990	5650	6360
FFAL-013Z-TFC	ZF04KAE-TF5	2280	2580	2940	3360	3850	4390	4990	5650	6360
FFAP-017Z-CFV	ZS11KAE-PFV					4500	5110	5750	6440	7190
FFAP-017Z-TFC	ZS11KAE-TF5					4500	5110	5750	6440	7190
FFAP-017Z-TFD	ZS11KAE-TFD					4500	5110	5750	6440	7190
FFAL-014Z-CFV	ZF05KAE-PFV	2630	3020	3470	3980	4560	5200	5890	6640	7440
FFAL-014Z-TFC	ZF05KAE-TF5	2630	3020	3470	3980	4560	5190	5890	6640	7440
FFAP-020Z-CFV	ZS13KAE-PFV				3680	4770	5740	6640	7500	8360
FFAP-020Z-TFC	ZS13KAE-TF5				3680	4770	5740	6640	7500	8360
FFAP-020Z-TFD	ZS13KAE-TFD				3680	4770	5740	6640	7500	8360
FFAP-022Z-CFV	ZS15KAE-PFV					6160	7020	7920	8870	9900
FFAP-022Z-TFC	ZS15KAE-TF5					6160	7020	7920	8870	9900
FFAP-022Z-TFD	ZS15KAE-TFD					6160	7020	7920	8870	9900
FFAL-015Z-CFV	ZF06K4E-PFV	3800	4430	5100	5810	6580	7410	8290	9240	10200
FFAL-015Z-TFC	ZF06K4E-TF5	3800	4430	5100	5810	6580	7410	8290	9240	10200
FFAL-015Z-TFD	ZF06K4E-TFD	3800	4430	5100	5810	6580	7410	8290	9240	10200
FFAL-017Z-CFV	ZF07KAE-PFV	4130	4800	5480	6190	6960	7790	8690	9700	10800
FFAL-017Z-TFC	ZF07KAE-TF5	4130	4800	5480	6200	6960	7790	8700	9700	10800
FFAP-030Z-CFV	ZS19KAE-PFV				4800	6310	7670	8930	10100	11400
FFAP-030Z-TFC	ZS19KAE-TF5				4800	6310	7670	8930	10100	11400
FFAP-030Z-TFD	ZS19KAE-TFD				4800	6310	7670	8930	10100	11400
FFAL-020Z-CFV	ZF08K4E-PFV	4860	5820	6750	7670	8600	9560	10600	11600	12800
FFAL-020Z-TFC	ZF08K4E-TF5	4920	5650	6470	7360	8350	9420	10600	11900	13200
FFAL-020Z-TFD	ZF08K4E-TFD	4920	5650	6470	7360	8350	9420	10600	11900	13200
FFAL-022Z-CFV	ZF09K4E-PFV	5420	6320	7240	8200	9220	10300	11500	12700	14100
FFAL-022Z-TFC	ZF09K4E-TF5	5510	6320	7220	8200	9260	10400	11700	13100	14500
FFAL-022Z-TFD	ZF09K4E-TFD	5510	6320	7220	8200	9260	10400	11700	13100	14500
FFAP-032Z-CFV	ZS21KAE-PFV					8680	10200	11900	13600	15400
FFAP-032Z-TFC	ZS21KAE-TF5					8680	10200	11900	13600	15400
FFAP-032Z-TFD	ZS21KAE-TFD					8680	10200	11900	13600	15400
FFAP-035Z-CFV	ZS26KAE-PFV					10800	11900	13200	14700	16400
FFAP-035Z-TFC	ZS26KAE-TF5					10800	11900	13200	14700	16400
FFAP-040Z-CFV	ZS26KAE-PFV				10100	11200	12400	13900	15500	17400
FFAP-040Z-TFC	ZS26KAE-TF5				10100	11200	12400	13900	15500	17400
FFAP-040Z-TFD	ZS26KAE-TFD				10100	11200	12400	13900	15500	17400
FFAL-026Z-CFV	ZF11K4E-PFV	6850	7770	8800	9930	11200	12600	14100	15700	17400
FFAL-026Z-TFC	ZF11K4E-TF5	6820	7810	8900	10100	11400	12800	14400	16000	17800
FFAL-026Z-TFD	ZF11K4E-TFD	6820	7810	8900	10100	11400	12800	14400	16000	17800
FFAL-030Z-CFV	ZF13K4E-PFV	7770	8820	10000	11400	12900	14600	16300	18300	20300
FFAL-030Z-TFC	ZF13K4E-TF5	7770	8820	10000	11400	12900	14600	16300	18300	20300
FFAL-030Z-TFD	ZF13K4E-TFD	7770	8820	10000	11400	12900	14600	16300	18300	20300
FFAP-050Z-CFV	ZS38K4E-PFV					12300	14300	16400	18700	21100
FFAP-050Z-TFC	ZS38K4E-TF5					12300	14300	16400	18700	21100
FFAP-042Z-CFV	ZS33KAE-PFV				10600	12700	14900	17300	19700	22400
FFAP-042Z-TFC	ZS33KAE-TF5				10600	12700	14900	17300	19700	22400
FFAP-042Z-TFD	ZS33KAE-TFD				10600	12700	14900	17300	19700	22400
FFAL-040Z-CFV	ZF15K4E-PFV	9470	10700	12100	13700	15500	17400	19500	21700	24000
FFAP-050Z-TFD	ZS38K4E-TFD					15000	17100	19500	22300	25300
FFAP-050Z-TFE	ZS38K4E-TFE					15000	17100	19500	22300	25300
FFAL-040Z-TFC	ZF15K4E-TF5	9760	11000	12400	14000	15800	17600	19700	21800	24100
FFAL-040Z-TFD	ZF15K4E-TFD	9760	11000	12400	14000	15800	17600	19700	21800	24100
FFAL-050Z-TFC	ZF18K4E-TF5	11800	13300	15000	16800	18800	20900	23200	25600	28100
FFAL-050Z-TFD	ZF18K4E-TFD	11800	13300	15000	16800	18800	20900	23200	25600	28100
FFAP-060Z-TFC	ZS45K4E-TF5					18100	20400	23200	26300	29800
FFAP-060Z-TFD	ZS45K4E-TFD					18100	20400	23200	26300	29800

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

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

R-448A/449A Low Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
100° Ambient										
FFAL-010Z-CFV	ZF03KAE-PFV	1720	1950	2200	2470	2760	3090	3460	3870	4340
FFAL-010Z-TFC	ZF03KAE-TF5	1720	1950	2200	2470	2760	3090	3460	3870	4340
FFAL-013Z-CFV	ZF04KAE-PFV	2160	2430	2760	3150	3600	4100	4660	5270	5930
FFAL-013Z-TFC	ZF04KAE-TF5	2160	2430	2760	3150	3600	4100	4660	5270	5930
FFAP-015Z-CFV	ZS09KAE-PFV							4660	5170	5720
FFAP-015Z-TFC	ZS09KAE-TF5							4660	5170	5720
FFAP-015Z-TFD	ZS09KAE-TFD							4660	5170	5720
FFAL-014Z-CFV	ZF05KAE-PFV	2480	2830	3240	3720	4250	4840	5490	6180	6930
FFAL-014Z-TFC	ZF05KAE-TF5	2470	2830	3240	3720	4250	4840	5490	6180	6930
FFAP-017Z-CFV	ZS11KAE-PFV							5570	6150	6790
FFAP-017Z-TFC	ZS11KAE-TF5							5570	6150	6790
FFAP-017Z-TFD	ZS11KAE-TFD							5570	6150	6790
FFAP-020Z-CFV	ZS13KAE-PFV							6320	7030	7750
FFAP-020Z-TFC	ZS13KAE-TF5							6320	7030	7750
FFAP-020Z-TFD	ZS13KAE-TFD							6320	7030	7750
FFAP-022Z-CFV	ZS15KAE-PFV							7660	8470	9350
FFAP-022Z-TFC	ZS15KAE-TF5							7660	8470	9350
FFAP-022Z-TFD	ZS15KAE-TFD							7660	8470	9350
FFAL-015Z-CFV	ZF06K4E-PFV	3570	4180	4830	5510	6240	7010	7830	8700	9630
FFAL-015Z-TFC	ZF06K4E-TF5	3570	4180	4830	5510	6240	7010	7830	8700	9630
FFAL-015Z-TFD	ZF06K4E-TFD	3570	4180	4830	5510	6240	7010	7830	8700	9630
FFAL-017Z-CFV	ZF07KAE-PFV	3880	4520	5150	5810	6510	7260	8090	9010	10000
FFAL-017Z-TFC	ZF07KAE-TF5	3880	4520	5150	5810	6510	7260	8090	9010	10000
FFAP-030Z-CFV	ZS19KAE-PFV							8460	9560	10700
FFAP-030Z-TFC	ZS19KAE-TF5							8460	9560	10700
FFAP-030Z-TFD	ZS19KAE-TFD							8460	9560	10700
FFAL-020Z-TFC	ZF08K4E-TF5	4600	5300	6070	6920	7840	8840	9920	11100	12400
FFAL-020Z-TFD	ZF08K4E-TFD	4600	5300	6070	6920	7840	8840	9920	11100	12400
FFAL-020Z-CFV	ZF08K4E-PFV	4540	5490	6390	7270	8150	9050	9980	11000	12000
FFAP-032Z-CFV	ZS26KAE-TF5							10400	12100	13800
FFAP-032Z-TFC	ZS21KAE-TF5							10400	12100	13800
FFAP-032Z-TFD	ZS21KAE-PFV							10400	12100	13800
FFAL-022Z-CFV	ZF09K4E-PFV	5070	5960	6860	7790	8750	9770	10800	12000	13200
FFAL-022Z-TFC	ZF09K4E-TF5	5200	5970	6810	7730	8720	9800	11000	12200	13600
FFAL-022Z-TFD	ZF09K4E-TFD	5200	5970	6810	7730	8720	9800	11000	12200	13600
FFAP-035Z-CFV	ZS26KAE-PFV							11800	13100	14500
FFAP-035Z-TFC	ZS26KAE-TF5							11800	13100	14500
FFAP-040Z-CFV	ZS26KAE-PFV						11400	12600	14100	15800
FFAP-040Z-TFC	ZS21KAE-TFD						11400	12600	14100	15800
FFAP-040Z-TFD	ZS26KAE-TFD						11400	12600	14100	15800
FFAL-026Z-CFV	ZF11K4E-PFV	6430	7290	8250	9300	10500	11700	13100	14600	16200
FFAL-026Z-TFC	ZF11K4E-TF5	6440	7370	8380	9490	10700	12000	13500	15000	16600
FFAL-026Z-TFD	ZF11K4E-TFD	6440	7370	8380	9490	10700	12000	13500	15000	16600
FFAL-030Z-CFV	ZF13K4E-PFV	7560	8400	9390	10500	11900	13300	14900	16600	18400
FFAL-030Z-TFC	ZF13K4E-TF5	7560	8400	9390	10500	11900	13300	14900	16600	18400
FFAL-030Z-TFD	ZF13K4E-TFD	7560	8400	9390	10500	11900	13300	14900	16600	18400
FFAP-042Z-CFV	ZS33KAE-PFV							15300	17800	20300
FFAP-042Z-TFC	ZS33KAE-TF5							15300	17800	20300
FFAP-042Z-TFD	ZS33KAE-TFD							15300	17800	20300
FFAL-040Z-TFC	ZF15K4E-TF5	9340	10400	11600	13000	14500	16100	17900	19800	21800
FFAL-040Z-TFD	ZF15K4E-TFD	9340	10400	11600	13000	14500	16100	17900	19800	21800
FFAL-040Z-CFV	ZF15K4E-PFV	9110	10200	11500	12900	14500	16200	18100	20100	22200
FFAP-050Z-CFV	ZS38K4E-PFV							18100	20500	23200
FFAP-050Z-TFC	ZS38K4E-TF5							18100	20500	23200
FFAP-050Z-TFD	ZS38K4E-TFD							18100	20500	23200
FFAP-050Z-TFE	ZS38K4E-TFE							18100	20500	23200
FFAL-050Z-TFC	ZF18K4E-TF5	11500	12800	14200	15800	17500	19300	21200	23300	25500
FFAL-050Z-TFD	ZF18K4E-TFD	11500	12800	14200	15800	17500	19300	21200	23300	25500
FFAP-060Z-TFC	ZS45K4E-TF5								24500	27500
FFAP-060Z-TFD	ZS45K4E-TFD								24500	27500

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

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

R-4448A/449A Low Temp

Copeland Scroll air-cooled condensing units

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
100° Ambient										
FFAL-010Z-CFV	ZF03KAE-PFV	1840	2080	2330	2620	2930	3290	3690	4650	
FFAL-010Z-CFV	ZF03KAE-PFV	1560	1800	2040	2290	2560	2850	3190	3980	
FFAL-010Z-TFC	ZF03KAE-TF5	1560	1800	2040	2290	2560	2850	3190	3980	
FFAL-013Z-CFV	ZF04KAE-PFV	2010	2250	2540	2890	3290	3750	4260	5420	
FFAL-013Z-TFC	ZF04KAE-TF5	2010	2250	2540	2890	3290	3750	4260	5430	
FFAL-014Z-CFV	ZF05KAE-PFV	2280	2590	2970	3400	3890	4430	5020	6360	
FFAL-014Z-TFC	ZF05KAE-TF5	2280	2590	2970	3400	3890	4430	5020	6360	
FFAL-015Z-CFV	ZF06K4E-PFV	3430	3870	4380	4950	5600	6310	7080	8820	
FFAL-015Z-TFC	ZF06K4E-TF5	3400	3990	4600	5250	5930	6650	7410	9070	
FFAL-015Z-TFD	ZF06K4E-TFD	3400	3990	4600	5250	5930	6650	7410	9070	
FFAL-017Z-CFV	ZF07KAE-PFV	3590	4190	4770	5380	6010	6700	7450	9230	
FFAL-017Z-TFC	ZF07KAE-TF5	3590	4190	4780	5380	6010	6700	7460	9230	
FFAL-020Z-TFC	ZF08K4E-TF5	4280	4940	5660	6440	7290	8210	9200	11400	
FFAL-020Z-TFD	ZF08K4E-TFD	4280	4940	5660	6440	7290	8210	9200	11400	
FFAL-020Z-CFV	ZF08K4E-PFV	4190	5130	6000	6840	7670	8500	9350	11200	
FFAL-022Z-CFV	ZF09K4E-PFV	4590	5480	6360	7250	8170	9120	10100	12300	
FFAL-022Z-TFC	ZF09K4E-TF5	4880	5610	6390	7230	8150	9140	10200	12600	
FFAL-022Z-TFD	ZF09K4E-TFD	4880	5610	6390	7230	8150	9140	10200	12600	
FFAL-026Z-CFV	ZF11K4E-PFV	5970	6770	7640	8600	12000	13400	14800	14800	
FFAL-026Z-TFC	ZF11K4E-TF5	6040	6890	7810	8830	12400	13800	15300		
FFAL-026Z-TFD	ZF11K4E-TFD	6040	6890	7810	8830	12400	13800	15300		

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

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

R-4448A/449A Medium Temp/High Temp Copeland Scroll air-cooled condensing units

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
90° Ambient												
FFAM-008Z-CFV	ZB06KAE-PFV	4150	4680	5250	5870	6530	7240	7360	8110	8920	9760	10600
FFAM-008Z-TFC	ZB06KAE-TF5	4160	4680	5250	5870	6530	7240	7360	8120	8910	9750	10600
FFAM-010Z-CFV	ZB07KAE-PFV	4890	5500	6170	6900	7690	8530	8670	9570	10500	11500	12500
FFAM-010Z-TFC	ZB07KAE-TF5	4890	5500	6170	6910	7690	8530	8680	9570	10500	11500	12500
FFAM-012Z-CFV	ZB08KAE-PFV	5720	6420	7190	8030	8930	9900	10100	11100	12200	13300	14400
FFAM-012Z-TFC	ZB08KAE-TF5	5720	6420	7190	8030	8930	9900	10100	11100	12200	13300	14400
FFAP-015Z-CFV	ZS09KAE-PFV	6030	6720	7490	8330	9250	10300	10500	11600	12800	14100	15500
FFAP-015Z-TFC	ZS09KAE-TF5	6030	6720	7490	8330	9250	10300	10500	11600	12800	14100	15500
FFAP-015Z-TFD	ZS09KAE-TFD	6030	6720	7490	8330	9250	10300	10500	11600	12800	14100	15500
FFAP-017Z-CFV	ZS11KAE-PFV	7190	8000	8890	9870	10900	12100	12300	13600	15000	16500	18100
FFAP-017Z-TFC	ZS11KAE-TF5	7190	8000	8890	9870	10900	12100	12300	13600	15000	16500	18100
FFAP-017Z-TFD	ZS11KAE-TFD	7190	8000	8890	9870	10900	12100	12300	13600	15000	16500	18100
FFAP-020Z-CFV	ZS13KAE-PFV	8360	9250	10200	11200	12300	13600	13800	15200	16800	18600	20500
FFAP-020Z-TFC	ZS13KAE-TF5	8360	9250	10200	11200	12300	13600	13800	15200	16800	18600	20500
FFAP-020Z-TFD	ZS13KAE-TFD	8360	9250	10200	11200	12300	13600	13800	15200	16800	18600	20500
FFAP-022Z-CFV	ZS15KAE-PFV	9900	11000	12200	13600	15000	16600	16900	18600	20500	22500	24700
FFAP-022Z-TFC	ZS15KAE-TF5	9900	11000	12200	13600	15000	16600	16900	18600	20500	22500	24700
FFAP-022Z-TFD	ZS15KAE-TFD	9900	11000	12200	13600	15000	16600	16900	18600	20500	22500	24700
FFAP-030Z-CFV	ZS19KAE-PFV	11400	12600	13900	15400	17000	18800	19100	21200	23400	26000	28800
FFAP-030Z-TFC	ZS19KAE-TF5	11400	12600	13900	15400	17000	18800	19100	21200	23400	26000	28800
FFAP-030Z-TFD	ZS19KAE-TFD	11400	12600	13900	15400	17000	18800	19100	21200	23400	26000	28800
FFAP-032Z-CFV	ZS21KAE-PFV	15400	17300	19400	21500	23700	26100	26600	29100	31800	34500	37400
FFAP-032Z-TFC	ZS21KAE-TF5	15400	17300	19400	21500	23700	26100	26600	29100	31800	34500	37400
FFAP-032Z-TFD	ZS21KAE-TFD	15400	17300	19400	21500	23700	26100	26600	29100	31800	34500	37400
FFAP-035Z-CFV	ZS26KAE-PFV	16400	18300	20400	22600	25100	27700	28100	30900	33900	37100	40400
FFAP-035Z-TFC	ZS26KAE-TF5	16400	18300	20400	22600	25100	27700	28100	30900	33900	37100	40400
FFAP-040Z-CFV	ZS26KAE-PFV	17400	19500	21900	24400	27200	30300	30800	34100	37600	41400	45500
FFAP-040Z-TFC	ZS26KAE-TF5	17400	19500	21900	24400	27200	30300	30800	34100	37700	41500	45600
FFAP-040Z-TFD	ZS26KAE-TFD	17400	19500	21900	24400	27200	30300	30800	34100	37600	41400	45500
FFAP-042Z-CFV	ZS33KAE-PFV	22400	25200	28200	31400	34700	38300	38900	42700	46700	51000	55500
FFAP-042Z-TFC	ZS33KAE-TF5	22400	25200	28200	31400	34700	38300	38900	42700	46700	51000	55500
FFAP-042Z-TFD	ZS33KAE-TFD	22400	25200	28200	31400	34700	38300	38900	42700	46700	51000	55500
FFAP-050Z-CFV	ZS38K4E-PFV	25300	28600	32100	35800	39700	43700	44600	48700	53000	57500	62000
FFAP-050Z-TFC	ZS38K4E-TF5	25300	28600	32100	35800	39700	43700	44600	48700	53000	57500	62000
FFAP-050Z-TFD	ZS38K4E-TFD	25300	28600	32100	35800	39700	43700	44600	48700	53000	57500	62000
FFAP-050Z-TFE	ZS38K4E-TFE	25300	28600	32100	35800	39700	43700	44600	48700	53000	57500	62000
FFAP-060Z-TFC	ZS45K4E-TF5	29800	33500	37500	41700	46100	50500	52000	56500	61500	66500	71500
FFAP-060Z-TFD	ZS45K4E-TFD	29800	33500	37500	41700	46100	50500	52000	56500	61500	66500	71500
FFAM-071Z-TFC	ZB48KCE-TF5	32300	36600	41100	45800	50500	56000	57000	62500	68500	75000	81500
FFAM-071Z-TFD	ZB48KCE-TFD	32300	36600	41100	45800	50500	56000	57000	62500	68500	75000	81500
FFAM-081Z-TFC	ZB57KCE-TF5	36800	41500	46400	51500	57000	62500	63500	69500	76000	82500	89000
FFAM-081Z-TFD	ZB57KCE-TFD	36800	41500	46400	51500	57000	62500	63500	69500	76000	82500	89000
FFAM-091Z-TFC	ZB66K5E-TFC	41200	47000	53000	59000	65500	72000	73500	80000	86500	93500	100000
FFAM-091Z-TFD	ZB66K5E-TFD	41200	47000	53000	59000	65500	72000	73500	80000	86500	93500	100000
FFAM-101Z-TFC	ZB76K5E-TFC	47400	54000	60500	67000	74000	81000	82500	89500	96500	104000	110000
FFAM-101Z-TFD	ZB76K5E-TFD	47400	54000	60500	67000	74000	81000	82500	89500	96500	104000	110000

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-4448A/449A Medium Temp/High Temp Copeland Scroll air-cooled condensing units

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
100° Ambient												
FFAM-008Z-CFV	ZB06KAE-PFV	3850	4340	4870	5450	6070	6730	6870	7590	8340	9140	9970
FFAM-008Z-TFC	ZB06KAE-TF5	3850	4340	4870	5450	6070	6730	6880	7590	8340	9130	9960
FFAM-010Z-CFV	ZB07KAE-PFV	4550	5130	5750	6430	7160	7930	8110	8940	9820	10700	11700
FFAM-010Z-TFC	ZB07KAE-TF5	4550	5120	5750	6430	7160	7930	8110	8940	9820	10700	11700
FFAM-012Z-CFV	ZB08KAE-PFV	5350	5990	6700	7470	8300	9180	9380	10300	11300	12300	13400
FFAM-012Z-TFC	ZB08KAE-TF5	5350	5990	6710	7480	8300	9180	9390	10300	11300	12300	13400
FFAP-015Z-CFV	ZS09KAE-PFV	5720	6330	7010	7760	8590	9510	9700	10700	11800	13000	14300
FFAP-015Z-TFC	ZS09KAE-TF5	5720	6330	7010	7760	8590	9510	9700	10700	11800	13000	14300
FFAP-015Z-TFD	ZS09KAE-TFD	5720	6330	7010	7760	8590	9510	9700	10700	11800	13000	14300
FFAP-017Z-CFV	ZS11KAE-PFV	6790	7500	8280	9140	10100	11100	11300	12500	13700	15000	16400
FFAP-017Z-TFC	ZS11KAE-TF5	6790	7500	8280	9140	10100	11100	11300	12500	13700	15000	16400
FFAP-017Z-TFD	ZS11KAE-TFD	6790	7500	8280	9140	10100	11100	11300	12500	13700	15000	16400
FFAP-020Z-CFV	ZS13KAE-PFV	7750	8500	9310	10200	11200	12400	12700	14000	15500	17200	19100
FFAP-020Z-TFC	ZS13KAE-TF5	7750	8500	9310	10200	11200	12400	12700	14000	15500	17200	19100
FFAP-020Z-TFD	ZS13KAE-TFD	7750	8500	9310	10200	11200	12400	12700	14000	15500	17200	19100
FFAP-022Z-CFV	ZS15KAE-PFV	9350	10300	11400	12600	13900	15300	15500	17100	18800	20500	22400
FFAP-022Z-TFC	ZS15KAE-TF5	9350	10300	11400	12600	13900	15300	15500	17100	18800	20500	22400
FFAP-022Z-TFD	ZS15KAE-TFD	9350	10300	11400	12600	13900	15300	15500	17100	18800	20500	22400
FFAP-030Z-CFV	ZS19KAE-PFV	10700	11800	13000	14300	15700	17300	17700	19500	21600	23900	26500
FFAP-030Z-TFC	ZS19KAE-TF5	10700	11800	13000	14300	15700	17300	17700	19500	21600	23900	26500
FFAP-030Z-TFD	ZS19KAE-TFD	10700	11800	13000	14300	15700	17300	17700	19500	21600	23900	26500
FFAP-032Z-CFV	ZS26KAE-TF5	13800	15700	17600	19600	21700	23900	24500	26900	29300	31900	34600
FFAP-032Z-TFC	ZS21KAE-TF5	13800	15700	17600	19600	21700	23900	24500	26900	29300	31900	34600
FFAP-032Z-TFD	ZS21KAE-PFV	13800	15700	17600	19600	21700	23900	24500	26900	29300	31900	34600
FFAP-035Z-CFV	ZS26KAE-PFV	14500	16200	18100	20100	22300	24700	25000	27500	30200	33000	35900
FFAP-035Z-TFC	ZS26KAE-TF5	14500	16200	18100	20100	22300	24700	25000	27500	30200	33000	35900
FFAP-040Z-CFV	ZS26KAE-PFV	15800	17800	19900	22400	25000	27900	28400	31500	34900	38600	42500
FFAP-040Z-TFC	ZS21KAE-TFD	15800	17800	19900	22400	25000	27900	28400	31600	35000	38700	42600
FFAP-040Z-TFD	ZS26KAE-TFD	15800	17800	19900	22400	25000	27900	28400	31500	34900	38600	42500
FFAP-042Z-CFV	ZS33KAE-PFV	20300	23100	25900	28900	32100	35500	36200	39800	43600	47600	51500
FFAP-042Z-TFC	ZS33KAE-TF5	20300	23100	25900	28900	32100	35500	36200	39800	43600	47600	51500
FFAP-042Z-TFD	ZS33KAE-TFD	20300	23100	25900	28900	32100	35500	36200	39800	43600	47600	51500
FFAP-050Z-CFV	ZS38K4E-PFV	23200	26100	29400	32800	36400	40200	41100	45100	49200	53500	57500
FFAP-050Z-TFC	ZS38K4E-TF5	23200	26100	29400	32800	36400	40200	41100	45100	49200	53500	57500
FFAP-050Z-TFD	ZS38K4E-TFD	23200	26100	29400	32800	36400	40200	41100	45100	49200	53500	57500
FFAP-050Z-TFE	ZS38K4E-TFE	23200	26100	29400	32800	36400	40200	41100	45100	49200	53500	57500
FFAP-060Z-TFC	ZS45K4E-TF5	27500	30800	34500	38400	42500	46700	47900	52500	57000	62000	67000
FFAP-060Z-TFD	ZS45K4E-TFD	27500	30800	34500	38400	42500	46700	47900	52500	57000	62000	67000
FFAM-071Z-TFC	ZB48KCE-TF5	29400	33500	37700	42100	46800	51500	53000	58000	63500	69500	76000
FFAM-071Z-TFD	ZB48KCE-TFD	29400	33500	37700	42100	46800	51500	53000	58000	63500	69500	76000
FFAM-081Z-TFC	ZB57KCE-TF5	33900	38400	43000	47700	52500	57500	59000	64500	70000	76000	82500
FFAM-081Z-TFD	ZB57KCE-TFD	33900	38400	43000	47700	52500	57500	59000	64500	70000	76000	82500
FFAM-091Z-TFC	ZB66K5E-TFC	36800	42600	48300	54000	60000	65500	67000	73000	79000		
FFAM-091Z-TFD	ZB66K5E-TFD	36800	42600	48300	54000	60000	65500	67000	73000	79000		
FFAM-101Z-TFC	ZB76K5E-TFC		49000	55000	61500	67500	73500	75000				
FFAM-101Z-TFD	ZB76K5E-TFD		49000	55000	61500	67500	73500	75000				

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-4448A/449A Medium Temp/High Temp Copeland Scroll air-cooled condensing units

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
100° Ambient												
FFAM-008Z-CFV	ZB06KAE-PFV	3460	3910	4410	4950	5530	6160	6330	7000	7720	8470	9260
FFAM-008Z-TFC	ZB06KAE-TF5	3460	3910	4410	4950	5540	6160	6330	7010	7720	8470	9260
FFAM-010Z-CFV	ZB07KAE-PFV	4170	4700	5270	5900	6570	7290	7500	8280	9100	9950	10800
FFAM-010Z-TFC	ZB07KAE-TF5	4170	4690	5270	5900	6570	7290	7500	8280	9100	9950	10800
FFAP-015Z-CFV	ZS09KAE-PFV	5140	5650	6230	6880	7620	8450	8620	9540	10500	11600	12700
FFAP-015Z-TFC	ZS09KAE-TF5	5140	5650	6230	6880	7620	8450	8620	9540	10500	11600	12700
FFAP-015Z-TFD	ZS09KAE-TFD	5140	5650	6230	6880	7620	8450	8620	9540	10500	11600	12700
FFAM-012Z-CFV	ZB08KAE-PFV	4920	5520	6170	6880	7630	8430	8680	9540	10400	11400	12300
FFAM-012Z-TFC	ZB08KAE-TF5	4920	5520	6170	6880	7630	8440	8680	9540	10400	11400	12300
FFAP-017Z-CFV	ZS11KAE-PFV	6070	6650	7320	8060	8900	9830	9970	11000	12000	13100	14200
FFAP-017Z-TFC	ZS11KAE-TF5	6070	6650	7320	8060	8900	9830	9970	11000	12000	13100	14200
FFAP-017Z-TFD	ZS11KAE-TFD	6070	6650	7320	8060	8900	9830	9970	11000	12000	13100	14200
FFAP-020Z-CFV	ZS13KAE-PFV	7040	7650	8320	9090	9960	11000	11300	12500	13800	15300	17000
FFAP-020Z-TFC	ZS13KAE-TF5	7040	7650	8320	9090	9960	11000	11300	12500	13800	15300	17000
FFAP-020Z-TFD	ZS13KAE-TFD	7040	7650	8320	9090	9960	11000	11300	12500	13800	15300	17000
FFAP-022Z-CFV	ZS15KAE-PFV	8460	9260	10200	11200	12300	13500	13600	14900	16300	17800	19300
FFAP-022Z-TFC	ZS15KAE-TF5	8460	9260	10200	11200	12300	13500	13600	14900	16300	17800	19300
FFAP-022Z-TFD	ZS15KAE-TFD	8460	9260	10200	11200	12300	13500	13600	14900	16300	17800	19300
FFAP-030Z-CFV	ZS19KAE-PFV	9590	10600	11600	12700	14000	15400	15700	17300	19200	21200	23500
FFAP-030Z-TFC	ZS19KAE-TF5	9590	10600	11600	12700	14000	15400	15700	17300	19200	21200	23500
FFAP-030Z-TFD	ZS19KAE-TFD	9590	10600	11600	12700	14000	15400	15700	17300	19200	21200	23500
FFAP-035Z-CFV	ZS26KAE-TF5		13300	14900	16700	18600	20800	20700	22900	25200	27700	30200
FFAP-035Z-TFC	ZS21KAE-PFV		13300	14900	16700	18600	20800	20700	22900	25200	27700	30200
FFAP-032Z-CFV	ZS21KAE-TFD		13800	15600	17500	19500	21500	22100	24400	26700	29100	31600
FFAP-032Z-TFC	ZS21KAE-TF5		13800	15600	17500	19500	21500	22100	24400	26700	29100	31600
FFAP-032Z-TFD	ZS26KAE-PFV		13800	15600	17500	19500	21500	22100	24400	26700	29100	31600
FFAP-040Z-CFV	ZS26KAE-PFV	13600	15400	17400	19600	22100	24800	25300	28300	31500	35000	38700
FFAP-040Z-TFD	ZS26KAE-TFD	13600	15400	17400	19600	22100	24800	25300	28300	31500	35000	38700
FFAP-040Z-TFC	ZS26KAE-TF5	13600	15400	17400	19600	22100	24800	25500	28500	31700	35200	39000
FFAP-042Z-CFV	ZS33KAE-PFV	18000	20600	23400	26300	29300	32500	33300	36700	40300	44100	48000
FFAP-042Z-TFC	ZS33KAE-TF5	18000	20600	23400	26300	29300	32500	33300	36700	40300	44100	48000
FFAP-042Z-TFD	ZS33KAE-TFD	18000	20600	23400	26300	29300	32500	33300	36700	40300	44100	48000
FFAP-050Z-CFV	ZS38K4E-PFV	21500	24100	26900	30000	33300	36800	37900	41600	45500	49400	53500
FFAP-050Z-TFC	ZS38K4E-TF5	21500	24100	26900	30000	33300	36800	37900	41600	45500	49400	53500
FFAP-050Z-TFD	ZS38K4E-TFD	21500	24100	26900	30000	33300	36800	37900	41600	45500	49400	53500
FFAP-050Z-TFE	ZS38K4E-TFE	21500	24100	26900	30000	33300	36800	37900	41600	45500	49400	53500
FFAP-060Z-TFC	ZS45K4E-TF5		28800	31900	35400	39200	43100	44400	48600	53000	57500	62000
FFAP-060Z-TFD	ZS45K4E-TFD		28800	31900	35400	39200	43100	44400	48600	53000	57500	62000
FFAM-071Z-TFC	ZB48KCE-TF5		30400	34400	38600	42900	47500	48900	54000	59000		
FFAM-071Z-TFD	ZB48KCE-TFD		30400	34400	38600	42900	47500	48900	54000	59000		
FFAM-081Z-TFC	ZB57KCE-TF5		35100	39400	43700	48200	53000	54500				
FFAM-081Z-TFD	ZB57KCE-TFD		35100	39400	43700	48200	53000	54500				
FFAM-091Z-TFC	ZB66K5E-TFC			42100	47400							
FFAM-091Z-TFD	ZB66K5E-TFD			42100	47400							
FFAM-101Z-TFC	ZB76K5E-TFC			48100								
FFAM-101Z-TFD	ZB76K5E-TFD			48100								

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.

Physical and Electrical Data

Copeland Scroll water-cooled condensing units

Model	Compressor	Voltage	Dimensions			Refrigerant Connections		Receiver Capacity (Lbs @ 90% Volume)						MCA	Max Fuse	Ship Weight
			L	W	H	Liquid	Suction	134a	22	404A	407A	407C	448A 449A			
FFWP-015Z-CFV-020	ZS09KAE-PFV	208/230	24	16.1	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	12.5	20	107
FFWP-015Z-TFC-020	ZS09KAE-TF5	208/230	24	16.1	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	10	15	107
FFWP-015Z-TFD-020	ZS09KAE-TFD	460	24	16.1	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	4.8	15	107
FFWP-017Z-CFV-020	ZS11KAE-PFV	208/230	24	16.1	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	15.8	25	105
FFWP-017Z-TFC-020	ZS11KAE-TF5	208/230	17	24	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	13	20	105
FFWP-017Z-TFD-020	ZS11KAE-TFD	460	17	24	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	5.4	15	105
FFWP-020Z-CFV-020	ZS13KAE-PFV	208/230	17	24	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	15	25	101
FFWP-020Z-TFC-020	ZS13KAE-TF5	208/230	17	24	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	12.1	20	107
FFWP-020Z-TFD-020	ZS13KAE-TFD	460	17	24	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	6	15	107
FFWP-021Z-TFC-020	ZS15K4E-TF5	208/230	24	16.1	16.8	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	11.6	20	140
FFWP-021Z-TFD-020	ZS15K4E-TFD	460	24	16.1	16.8	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	5.4	15	114
FFWP-022Z-CFV-020	ZS15KAE-PFV	208/230	17	24	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	19.6	35	105
FFWP-022Z-TFC-020	ZS15KAE-TF5	208/230	24	16.1	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	13.3	20	106
FFWP-022Z-TFD-020	ZS15KAE-TFD	460	24	16.1	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	6.8	15	106
FFWP-030Z-CFV-020	ZS19KAE-PFV	208/230	16	24.1	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	22.5	40	105
FFWP-030Z-TFC-020	ZS19KAE-TF5	208/230	16	24.1	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	17.1	30	75
FFWP-030Z-TFD-020	ZS19KAE-TFD	460	16	24.1	16.6	3/8	7/8	13	12.9	11.2	12.3	12.2	11.8	8.1	15	106
FFWP-032Z-CFV-020	ZS21KAE-PFV	208/230	27	21.5	18.2	3/8	1 1/8	13	12.9	11.2	12.3	12.2	11.8	29	50	171
FFWP-032Z-TFC-020	ZS21KAE-TF5	208/230	27	21.5	18.2	3/8	1 1/8	13	12.9	11.2	12.3	12.2	11.8	19	30	168
FFWP-032Z-TFD-020	ZS21KAE-TFD	460	27	21.5	18.2	3/8	1 1/8	13	12.9	11.2	12.3	12.2	11.8	8.6	15	168
FFWP-040Z-CFV-020	ZS26KAE-PFV	208/230	21	27.5	21.1	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		29.5	50	191
FFWP-040Z-TFC-020	ZS26KAE-TF5	208/230	21	27.5	21.1	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		19.4	30	191
FFWP-040Z-TFD-020	ZS26KAE-TFD	460	21	27.5	21.1	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		8.6	15	195
FFWP-042Z-CFV-020	ZS33KAE-PFV	208/230	27	21.6	21.1	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		35.3	60	197
FFWP-042Z-TFC-020	ZS33KAE-TF5	208/230	27	21.6	21.1	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		27.9	50	198
FFWP-042Z-TFD-020	ZS33KAE-TFD	460	21	27.5	21.1	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		12.5	20	220
FFWP-050Z-CFV-020	ZS38K4E-PFV	208/230	27.5	21.7	21.1	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		39.8	70	220
FFWP-050Z-TFC-020	ZS38K4E-TF5	208/230	27.5	21.7	21.1	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		26.8	45	209
FFWP-050Z-TFD-020	ZS38K4E-TFD	460	27.5	21.7	21.1	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		12	20	209
FFWP-050Z-TFE-020	ZS38K4E-TFE	575	27.5	21.7	21.1	1/2	1 1/8	21.5	21.2	18.4	20.3	20.2		9.9	15	0

R-134a Med/High Temp

Copeland Scroll™ water-cooled condensing units

Model	Compressor	0	5	10	15	20	20@40	25@65	30	35	40	45	0	25	45
BTU/H at 105° condensing, 75° water inlet - evaporator temp (°F)													Water flow (GPM) @ evap temp (°F)		
FFWP-015Z-CFV	ZS09KAE-PFV	4070	4620	5220	5870	6590	7380	7620	8500	9460	10500	11600	0.6	1.0	1.4
FFWP-015Z-TFC	ZS09KAE-TF5	4070	4620	5220	5870	6590	7380	7620	8500	9460	10500	11600	0.6	1.0	1.4
FFWP-015Z-TFD	ZS09KAE-TFD	4070	4620	5220	5870	6590	7380	7620	8500	9460	10500	11600	0.6	1.0	1.4
FFWP-017Z-CFV	ZS11KAE-PFV	4850	5510	6230	7010	7870	8810	9090	10100	11300	12500	13900	0.7	1.1	1.4
FFWP-017Z-TFC	ZS11KAE-TF5	4850	5510	6230	7010	7870	8810	9090	10100	11300	12500	13900	0.7	1.1	1.7
FFWP-017Z-TFD	ZS11KAE-TFD	4850	5510	6230	7010	7870	8810	9090	10100	11300	12500	13900	0.7	1.1	1.7
FFWP-020Z-CFV	ZS13KAE-PFV	5540	6290	7110	8010	8990	10100	10400	11600	12900	14300	15900	0.8	1.3	1.97
FFWP-020Z-TFC	ZS13KAE-TF5	5540	6290	7110	8010	8990	10100	10400	11600	12900	14300	15900	0.8	1.3	1.97
FFWP-020Z-TFD	ZS13KAE-TFD	5540	6290	7110	8010	8990	10100	10400	11600	12900	14300	15900	0.8	1.3	1.97
FFWP-021Z-TFC	ZS15K4E-TF5	6570	7440	8400	9450	10600	11900	12100	13500	15000	16700	18500	0.9	1.5	2.3
FFWP-021Z-TFD	ZS15K4E-TFD	6570	7440	8400	9450	10600	11900	12100	13500	15000	16700	18500	0.9	1.5	2.3
FFWP-022Z-CFV	ZS15KAE-PFV	6680	7590	8570	9650	10800	12100	12500	14000	15600	17300	19100	0.9	1.6	2.3
FFWP-022Z-TFC	ZS15KAE-TF5	6680	7590	8570	9650	10800	12100	12500	14000	15600	17300	19100	0.9	1.6	2.3
FFWP-022Z-TFD	ZS15KAE-TFD	6680	7590	8570	9650	10800	12100	12500	14000	15600	17300	19100	0.9	1.6	2.3
FFWP-030Z-CFV	ZS19KAE-PFV	7540	8560	9680	10900	12200	13700	14100	15800	17500	19500	21600	1.0	1.8	2.5
FFWP-030Z-TFC	ZS19KAE-TF5	7540	8560	9680	10900	12200	13700	14100	15800	17500	19500	21600	1.0	1.8	2.5
FFWP-030Z-TFD	ZS19KAE-TFD	7540	8560	9680	10900	12200	13700	14100	15800	17500	19500	21600	1.0	1.8	2.5
FFWP-032Z-CFV	ZS21KAE-PFV	10100	11500	13000	14600	16400	18400	19000	21200	23600	26200	29000	1.4	2.3	3.4
FFWP-032Z-TFC	ZS21KAE-TF5	10100	11500	13000	14600	16400	18400	19000	21200	23600	26200	29000	1.4	2.3	3.4
FFWP-032Z-TFD	ZS21KAE-TFD	10100	11500	13000	14600	16400	18400	19000	21200	23600	26200	29000	1.4	2.3	3.4
FFWP-040Z-CFV	ZS26KAE-PFV	11600	13200	14900	16800	18900	21100	21000	23500	26100	29000	32200	1.5	2.6	3.8
FFWP-040Z-TFC	ZS26KAE-TF5	11600	13200	14900	16800	18900	21100	21000	23500	26100	29000	32200	1.5	2.6	3.8
FFWP-040Z-TFD	ZS26KAE-TFD	11600	13200	14900	16800	18900	21100	21000	23500	26100	29000	32200	1.5	2.6	3.8
FFWP-042Z-CFV	ZS33KAE-PFV	14000	15800	17900	20200	22600	25300	26100	29200	32500	36100	40000	1.9	3.2	4.7
FFWP-042Z-TFC	ZS33KAE-TF5	14000	15800	17900	20200	22600	25300	26100	29200	32500	36100	40000	1.9	3.2	4.7
FFWP-042Z-TFD	ZS33KAE-TFD	14000	15800	17900	20200	22600	25300	26100	29200	32500	36100	40000	1.9	3.2	4.7
FFWP-050Z-CFV	ZS38K4E-PFV	16000	18100	20400	23000	25800	28800	30800	34300	38100	42300	47200	2.1	3.8	5.7
FFWP-050Z-TFC	ZS38K4E-TF5	16000	18100	20400	23000	25800	28800	30800	34300	38100	42300	47200	2.1	3.8	5.7
FFWP-050Z-TFD	ZS38K4E-TFD	16000	18100	20400	23000	25800	28800	30800	34300	38100	42300	47200	2.1	3.8	5.7
FFWP-050Z-TFE	ZS38K4E-TFE	16000	18100	20400	23000	25800	28800	30800	34300	38100	42300	47200	2.1	3.8	5.7

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

R-22 High Temp

Copeland Scroll™ water-cooled condensing units

Model	Compressor	0	5	10	15	20	20@40	25@65	30	35	40	45	0	25	45
BTU/H at 105° condensing, 75° water inlet - evaporator temp (°F)													Water flow (GPM) @ evap temp (°F)		
FFWP-015Z-CFV	ZS09KAE-PFV	6770	7740	8720	9750	10800	12000	12100	13300	14700	16100	17700	0.92	1.51	2.14
FFWP-015Z-TFC	ZS09KAE-TF5	6770	7740	8720	9750	10800	12000	12100	13300	14700	16100	17700	0.92	1.51	2.14
FFWP-015Z-TFD	ZS09KAE-TFD	6770	7740	8720	9750	10800	12000	12100	13300	14700	16100	17700	0.92	1.51	2.14
FFWP-017Z-CFV	ZS11KAE-PFV	7890	9040	10200	11400	12700	14100	14000	15500	17100	18800	21000	1.07	1.75	2.49
FFWP-017Z-TFC	ZS11KAE-TF5	7890	9040	10200	11400	12700	14100	14000	15500	17100	18800	21000	1.07	1.75	2.49
FFWP-017Z-TFD	ZS11KAE-TFD	7890	9040	10200	11400	12700	14100	14000	15500	17100	18800	21000	1.07	1.75	2.49
FFWP-020Z-CFV	ZS13KAE-PFV	9160	10500	11800	13200	14600	16200	16400	18000	19900	21800	24000	1.24	2.03	2.94
FFWP-020Z-TFC	ZS13KAE-TF5	9160	10500	11800	13200	14600	16200	16400	18000	19900	21800	24000	1.24	2.03	2.94
FFWP-020Z-TFD	ZS13KAE-TFD	9160	10500	11800	13200	14600	16200	16400	18000	19900	21800	24000	1.24	2.03	2.94
FFWP-021Z-TFC	ZS15K4E-TF5			13400	14900	16600	18300	18300	20200	22300	24500	26800		2.30	3.30
FFWP-021Z-TFD	ZS15K4E-TFD			13400	14900	16600	18300	18300	20200	22300	24500	26800		2.30	3.30
FFWP-022Z-CFV	ZS15KAE-PFV	10800	12300	13900	15500	17200	19100	19200	21200	23400	25700	28200	1.49	2.40	3.41
FFWP-022Z-TFC	ZS15KAE-TF5	10800	12300	13900	15500	17200	19100	19200	21200	23400	25700	28200	1.49	2.40	3.41
FFWP-022Z-TFD	ZS15KAE-TFD	10800	12300	13900	15500	17200	19100	19200	21200	23400	25700	28200	1.49	2.40	3.41
FFWP-030Z-CFV	ZS19KAE-PFV	12200	14000	15800	17600	19600	21600	21900	24100	26500	29200	32000	1.65	2.69	3.82
FFWP-030Z-TFC	ZS19KAE-TF5	12200	14000	15800	17600	19600	21600	21900	24100	26500	29200	32000	1.65	2.69	3.82
FFWP-030Z-TFD	ZS19KAE-TFD	12200	14000	15800	17600	19600	21600	21900	24100	26500	29200	32000	1.65	2.69	3.82
FFWP-032Z-CFV	ZS21KAE-PFV	16300	18600	21100	23600	26200	29100	29100	32100	35400	39000	42900	2.20	3.60	5.10
FFWP-032Z-TFC	ZS21KAE-TF5	16300	18600	21100	23600	26200	29100	29100	32100	35400	39000	42900	2.20	3.60	5.10
FFWP-032Z-TFD	ZS21KAE-TFD	16300	18600	21100	23600	26200	29100	29100	32100	35400	39000	42900	2.20	3.60	5.10
FFWP-040Z-CFV	ZS26KAE-PFV	18200	20800	23500	26200	29100	32200	32600	35900	39500	43400	47700	2.43	3.96	5.69
FFWP-040Z-TFC	ZS26KAE-TF5	18200	20800	23500	26200	29100	32200	32600	35900	39500	43400	47700	2.43	3.96	5.69
FFWP-040Z-TFD	ZS26KAE-TFD	18200	20800	23500	26200	29100	32200	32600	35900	39500	43400	47700	2.43	3.96	5.69
FFWP-042Z-CFV	ZS33KAE-PFV	22500	25700	29000	32500	36200	40100	40100	44300	48800	53500	59000	3.00	5.00	7.00
FFWP-042Z-TFC	ZS33KAE-TF5	22500	25700	29000	32500	36200	40100	40100	44300	48800	53500	59000	3.00	5.00	7.00
FFWP-042Z-TFD	ZS33KAE-TFD	22500	25700	29000	32500	36200	40100	40100	44300	48800	53500	59000	3.00	5.00	7.00
FFWP-050Z-CFV	ZS38K4E-PFV	26200	29300	32600	36300	40200	44400	44800	49400	54300	59500	65100	3.46	5.62	8.03
FFWP-050Z-TFC	ZS38K4E-TF5	26200	29300	32600	36300	40200	44400	44800	49400	54300	59500	65100	3.46	5.62	8.03
FFWP-050Z-TFD	ZS38K4E-TFD	26200	29300	32600	36300	40200	44400	44800	49400	54300	59500	65100	3.46	5.62	8.03
FFWP-050Z-TFE	ZS38K4E-TFE	26200	29300	32600	36300	40200	44400	44800	49400	54300	59500	65100	3.46	5.62	8.03

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

R-404A Low Temp

Copeland Scroll™ water-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	-30	-15	0
BTU/H at 105° condensing, 75° water inlet - evaporator temp (°F)									Water flow (GPM) @ evap temp (°F)		
FFWP-015Z-CFV	ZS09KAE-PFV	3230	3670	4140	4670	5240	5890	6590	0.5	0.7	1.0
FFWP-015Z-TFC	ZS09KAE-TF5	3230	3670	4140	4670	5240	5890	6590	0.5	0.7	1.0
FFWP-015Z-TFD	ZS09KAE-TFD	3230	3670	4140	4670	5240	5890	6590	0.5	0.7	1.0
FFWP-017Z-CFV	ZS11KAE-PFV	4010	4540	5130	5790	6500	7300	8180	0.6	0.8	1.1
FFWP-017Z-TFC	ZS11KAE-TF5	4010	4540	5130	5790	6500	7300	8180	0.6	0.8	1.1
FFWP-017Z-TFD	ZS11KAE-TFD	4010	4540	5130	5790	6500	7300	8180	0.6	0.8	1.1
FFWP-020Z-CFV	ZS13KAE-PFV	4400	4990	5640	6350	7140	8010	8980	0.7	0.9	1.3
FFWP-020Z-TFC	ZS13KAE-TF5	4400	4990	5640	6350	7140	8010	8980	0.7	0.9	1.3
FFWP-020Z-TFD	ZS13KAE-TFD	4400	4990	5640	6350	7140	8010	8980	0.7	0.9	1.3
FFWP-021Z-TFC	ZS15K4E-TF5		6520	7370	8300	9310		11600		1.2	1.6
FFWP-021Z-TFD	ZS15K4E-TFD		6520	7370	8300	9310		11600		1.2	1.6
FFWP-022Z-CFV	ZS15KAE-PFV	5350	6070	6860	7720	8680	9740	10900	0.8	1.1	1.5
FFWP-022Z-TFC	ZS15KAE-TF5	5350	6070	6860	7720	8680	9740	10900	0.8	1.1	1.5
FFWP-022Z-TFD	ZS15KAE-TFD	5350	6070	6860	7720	8680	9740	10900	0.8	1.1	1.5
FFWP-030Z-CFV	ZS19KAE-PFV	6340	7190	8120	9150	10300	11500	12900	1.0	1.3	1.7
FFWP-030Z-TFC	ZS19KAE-TF5	6340	7190	8120	9150	10300	11500	12900	1.0	1.3	1.7
FFWP-030Z-TFD	ZS19KAE-TFD	6340	7190	8120	9150	10300	11500	12900	1.0	1.3	1.7
FFWP-032Z-CFV	ZS21KAE-PFV	8030	9100	10300	11600	13000	14600	16400	1.2	1.7	2.3
FFWP-032Z-TFC	ZS21KAE-TF5	8030	9100	10300	11600	13000	14600	16400	1.2	1.7	2.3
FFWP-032Z-TFD	ZS21KAE-TFD	8030	9100	10300	11600	13000	14600	16400	1.2	1.7	2.3
FFWP-040Z-CFV	ZS26KAE-PFV	9390	10600	12000	13600	15200	17100	19200	1.5	2.0	2.6
FFWP-040Z-TFC	ZS26KAE-TF5	9390	10600	12000	13600	15200	17100	19200	1.5	2.0	2.6
FFWP-040Z-TFD	ZS26KAE-TFD	9390	10600	12000	13600	15200	17100	19200	1.5	2.0	2.6
FFWP-042Z-CFV	ZS33KAE-PFV	11200	12700	14400	16200	18200	20400	22900	1.7	2.3	3.1
FFWP-042Z-TFC	ZS33KAE-TF5	11200	12700	14400	16200	18200	20400	22900	1.7	2.3	3.1
FFWP-042Z-TFD	ZS33KAE-TFD	11200	12700	14400	16200	18200	20400	22900	1.7	2.3	3.1
FFWP-050Z-CFV	ZS38K4E-PFV	14000	15800	17700	19900	22200	24800	27600	2.1	2.8	3.8
FFWP-050Z-TFC	ZS38K4E-TF5	14000	15800	17700	19900	22200	24800	27600	2.1	2.8	3.8
FFWP-050Z-TFD	ZS38K4E-TFD	14000	15800	17700	19900	22200	24800	27600	2.1	2.8	3.8
FFWP-050Z-TFE	ZS38K4E-TFE	14000	15800	17700	19900	22200	24800	27600	2.1	2.8	3.8

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

R-404A Med/High Temp

Copeland Scroll™ water-cooled condensing units

Model	Compressor	0	5	10	15	20	20@40	25@65	30	35	40	45	0	25	45
BTU/H at 105° condensing, 75° water inlet - evaporator temp (°F)													Water flow (GPM) @ evap temp (°F)		
FFWP-015Z-CFV	ZS09KAE-PFV	6590	7370	8230	9180	10200	11400	12300	13600	14900	16400	18000	1.0	1.6	2.2
FFWP-015Z-TFC	ZS09KAE-TF5	6590	7370	8230	9180	10200	11400	12300	13600	14900	16400	18000	1.0	1.6	2.2
FFWP-015Z-TFD	ZS09KAE-TFD	6590	7370	8230	9180	10200	11400	12300	13600	14900	16400	18000	1.0	1.6	2.2
FFWP-017Z-CFV	ZS11KAE-PFV	8180	9150	10200	11400	12700	14100	14400	15900	17500	19300	21100	1.1	1.8	2.5
FFWP-017Z-TFC	ZS11KAE-TF5	8180	9150	10200	11400	12700	14100	14400	15900	17500	19300	21100	1.1	1.8	2.5
FFWP-017Z-TFD	ZS11KAE-TFD	8180	9150	10200	11400	12700	14100	14400	15900	17500	19300	21100	1.1	1.8	2.5
FFWP-020Z-CFV	ZS13KAE-PFV	8980	10000	11200	12500	13900	15500	16800	18500	20400	22400	24600	1.3	2.1	2.9
FFWP-020Z-TFC	ZS13KAE-TF5	8980	10000	11200	12500	13900	15500	16800	18500	20400	22400	24600	1.3	2.1	2.9
FFWP-020Z-TFD	ZS13KAE-TFD	8980	10000	11200	12500	13900	15500	16800	18500	20400	22400	24600	1.3	2.1	2.9
FFWP-021Z-TFC	ZS15K4E-TF5	11600	10400	14300	15900	17600	19400	20100	22100	24300	26600	29100	1.6	1.6	2.5
FFWP-021Z-TFD	ZS15K4E-TFD	11600	10400	14300	15900	17600	19400	20100	22100	24300	26600	29100	1.6	1.6	2.5
FFWP-022Z-CFV	ZS15KAE-PFV	10900	12200	13600	15200	16900	18800	20400	22500	24700	27200	29900	1.5	2.6	3.5
FFWP-022Z-TFC	ZS15KAE-TF5	10900	12200	13600	15200	16900	18800	20400	22500	24700	27200	29900	1.5	2.6	3.5
FFWP-022Z-TFD	ZS15KAE-TFD	10900	12200	13600	15200	16900	18800	20400	22500	24700	27200	29900	1.5	2.6	3.5
FFWP-030Z-CFV	ZS19KAE-PFV	12900	14500	16200	18000	20100	22300	22900	25200	27700	30500	33400	1.7	2.8	4.0
FFWP-030Z-TFC	ZS19KAE-TF5	12900	14500	16200	18000	20100	22300	22900	25200	27700	30500	33400	1.7	2.8	4.0
FFWP-030Z-TFD	ZS19KAE-TFD	12900	14500	16200	18000	20100	22300	22900	25200	27700	30500	33400	1.7	2.8	4.0
FFWP-032Z-CFV	ZS21KAE-PFV	16400	18300	20500	22800	25400	28200	30700	34100	37900	42100	46700	2.3	3.8	5.5
FFWP-032Z-TFC	ZS21KAE-TF5	16400	18300	20500	22800	25400	28200	30700	34100	37900	42100	46700	2.3	3.8	5.5
FFWP-032Z-TFD	ZS21KAE-TFD	16400	18300	20500	22800	25400	28200	30700	34100	37900	42100	46700	2.3	3.8	5.5
FFWP-040Z-CFV	ZS26KAE-PFV	19200	21400	23900	26700	29700	33000	32900	36500	40400	44700	49300	2.6	4.1	5.8
FFWP-040Z-TFC	ZS26KAE-TF5	19200	21400	23900	26700	29700	33000	32900	36500	40400	44700	49300	2.6	4.1	5.8
FFWP-040Z-TFD	ZS26KAE-TFD	19200	21400	23900	26700	29700	33000	32900	36500	40400	44700	49300	2.6	4.1	5.8
FFWP-042Z-CFV	ZS33KAE-PFV	22900	25600	28600	31900	35500	39400	43000	47700	53000	58800	65300	3.1	5.3	7.6
FFWP-042Z-TFC	ZS33KAE-TF5	22900	25600	28600	31900	35500	39400	43000	47700	53000	58800	65300	3.1	5.3	7.6
FFWP-042Z-TFD	ZS33KAE-TFD	22900	25600	28600	31900	35500	39400	43000	47700	53000	58800	65300	3.1	5.3	7.6
FFWP-050Z-CFV	ZS38K4E-PFV	27600	30600	33900	37500	41400	45600	51600	56800	62300	68300	75700	3.8	6.5	9.3
FFWP-050Z-TFC	ZS38K4E-TF5	27600	30600	33900	37500	41400	45600	51600	56800	62300	68300	75700	3.8	6.5	9.3
FFWP-050Z-TFD	ZS38K4E-TFD	27600	30600	33900	37500	41400	45600	51600	56800	62300	68300	75700	3.8	6.5	9.3
FFWP-050Z-TFE	ZS38K4E-TFE	27600	30600	33900	37500	41400	45600	51600	56800	62300	68300	75700	3.8	6.5	9.3

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

R-407A Low Temp

Copeland Scroll™ water-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0	5	-25	-10	5
BTU/H at 105° condensing, 75° water inlet - evaporator temp (°F)									Water flow (GPM) @ evap temp (°F)		
FFWP-015Z-CFV	ZS09KAE-PFV	3330	3960	4590	5240	5910	6630	7410	0.5	0.8	1.0
FFWP-015Z-TFC	ZS09KAE-TF5	3330	3960	4590	5240	5910	6630	7410	0.5	0.8	1.0
FFWP-015Z-TFD	ZS09KAE-TFD	3330	3960	4590	5240	5910	6630	7410	0.5	0.8	1.0
FFWP-017Z-CFV	ZS11KAE-PFV	3980	4720	5480	6250	7060	7920	8850	0.6	0.9	1.2
FFWP-017Z-TFC	ZS11KAE-TF5	3980	4720	5480	6250	7060	7920	8850	0.6	0.9	1.2
FFWP-017Z-TFD	ZS11KAE-TFD	3980	4720	5480	6250	7060	7920	8850	0.6	0.9	1.2
FFWP-020Z-CFV	ZS13KAE-PFV	4540	5390	6250	7140	8060	9050	10100	0.7	1.0	1.4
FFWP-020Z-TFC	ZS13KAE-TF5	4540	5390	6250	7140	8060	9050	10100	0.7	1.0	1.4
FFWP-020Z-TFD	ZS13KAE-TFD	4540	5390	6250	7140	8060	9050	10100	0.7	1.0	1.4
FFWP-022Z-CFV	ZS15KAE-PFV	5470	6500	7540	8610	9720	10900	12200	0.8	1.2	1.6
FFWP-022Z-TFC	ZS15KAE-TF5	5470	6500	7540	8610	9720	10900	12200	0.8	1.2	1.6
FFWP-022Z-TFD	ZS15KAE-TFD	5470	6500	7540	8610	9720	10900	12200	0.8	1.2	1.6
FFWP-030Z-CFV	ZS19KAE-PFV	6180	7340	8510	9710	11000	12300	13700	1.0	1.4	1.8
FFWP-030Z-TFC	ZS19KAE-TF5	6180	7340	8510	9710	11000	12300	13700	1.0	1.4	1.8
FFWP-030Z-TFD	ZS19KAE-TFD	6180	7340	8510	9710	11000	12300	13700	1.0	1.4	1.8
FFWP-032Z-CFV	ZS21KAE-PFV	7160	8680	10300	11900	13700	15600	17700	1.2	1.7	2.4
FFWP-032Z-TFC	ZS21KAE-TF5	7160	8680	10300	11900	13700	15600	17700	1.2	1.7	2.4
FFWP-032Z-TFD	ZS21KAE-TFD	7160	8680	10300	11900	13700	15600	17700	1.2	1.7	2.4
FFWP-040Z-CFV	ZS26KAE-PFV	7940	9640	11400	13300	15200	17400	19600	1.3	1.9	2.6
FFWP-040Z-TFC	ZS26KAE-TF5	7940	9640	11400	13300	15200	17400	19600	1.3	1.9	2.6
FFWP-040Z-TFD	ZS26KAE-TFD	7940	9640	11400	13300	15200	17400	19600	1.3	1.9	2.6
FFWP-042Z-CFV	ZS33KAE-PFV	10400	12700	15000	17400	20000	22800	25800	1.7	2.4	3.4
FFWP-042Z-TFC	ZS33KAE-TF5	10400	12700	15000	17400	20000	22800	25800	1.7	2.4	3.4
FFWP-042Z-TFD	ZS33KAE-TFD	10400	12700	15000	17400	20000	22800	25800	1.7	2.4	3.4

R-407A Med/High Temp

Copeland Scroll™ water-cooled condensing units

Model	Compressor	0	5	10	15	20	20@40	25@65	30	35	40	45	0	25	45
BTU/H at 105° condensing, 75° water inlet - evaporator temp (°F)													Water flow (GPM) @ evap temp (°F)		
FFWP-015Z-CFV	ZS09KAE-PFV	7620	8630	9700	10800	11100	12300	13600	15000	16500	1.1	1.4	2.0	1.0	1.4
FFWP-015Z-TFC	ZS09KAE-TF5	7620	8630	9700	10800	11100	12300	13600	15000	16500	1.1	1.4	2.0	1.0	1.4
FFWP-015Z-TFD	ZS09KAE-TFD	7620	8630	9700	10800	11100	12300	13600	15000	16500	1.1	1.4	2.0	1.0	1.4
FFWP-017Z-CFV	ZS11KAE-PFV	9100	10300	11600	12900	13300	14700	16300	18000	19700	1.2	1.7	2.3	1.1	1.4
FFWP-017Z-TFC	ZS11KAE-TF5	9100	10300	11600	12900	13300	14700	16300	18000	19700	1.2	1.7	2.3	1.1	1.7
FFWP-017Z-TFD	ZS11KAE-TFD	9100	10300	11600	12900	13300	14700	16300	18000	19700	1.2	1.7	2.3	1.1	1.7
FFWP-020Z-CFV	ZS13KAE-PFV	10400	11800	13200	14800	15100	16800	18600	20500	22500	1.4	1.9	2.7	1.3	1.97
FFWP-020Z-TFC	ZS13KAE-TF5	10400	11800	13200	14800	15100	16800	18600	20500	22500	1.4	1.9	2.7	1.3	1.97
FFWP-020Z-TFD	ZS13KAE-TFD	10400	11800	13200	14800	15100	16800	18600	20500	22500	1.4	1.9	2.7	1.3	1.97
FFWP-022Z-CFV	ZS15KAE-PFV	12500	14200	15900	17800	18300	20300	22400	24700	27200	1.7	2.3	3.2	1.5	2.3
FFWP-022Z-TFC	ZS15KAE-TF5	12500	14200	15900	17800	18300	20300	22400	24700	27200	1.7	2.3	3.2	1.5	2.3
FFWP-022Z-TFD	ZS15KAE-TFD	12500	14200	15900	17800	18300	20300	22400	24700	27200	1.7	2.3	3.2	1.6	2.3
FFWP-030Z-CFV	ZS19KAE-PFV	14500	16400	18500	20600	20600	22800	25300	27800	30600	1.9	2.6	3.6	1.6	2.3
FFWP-030Z-TFC	ZS19KAE-TF5	14500	16400	18500	20600	20600	22800	25300	27800	30600	1.9	2.6	3.6	1.6	2.3
FFWP-030Z-TFD	ZS19KAE-TFD	14500	16400	18500	20600	20600	22800	25300	27800	30600	1.9	2.6	3.6	1.8	2.5
FFWP-032Z-CFV	ZS21KAE-PFV	19000	21500	24200	27000	27700	30700	34000	37500	41200	2.5	3.4	4.8	1.8	2.5
FFWP-032Z-TFC	ZS21KAE-TF5	19000	21500	24200	27000	27700	30700	34000	37500	41200	2.5	3.4	4.8	1.8	2.5
FFWP-032Z-TFD	ZS21KAE-TFD	19000	21500	24200	27000	27700	30700	34000	37500	41200	2.5	3.4	4.8	2.3	3.4
FFWP-040Z-CFV	ZS26KAE-PFV	21600	24500	27500	30700	30600	34000	37600	41500	45600	2.8	3.8	5.3	2.3	3.4
FFWP-040Z-TFC	ZS26KAE-TF5	21600	24500	27500	30700	30600	34000	37600	41500	45600	2.8	3.8	5.3	2.3	3.4
FFWP-040Z-TFD	ZS26KAE-TFD	21600	24500	27500	30700	30600	34000	37600	41500	45600	2.8	3.8	5.3	2.6	3.8
FFWP-042Z-CFV	ZS33KAE-PFV	26200	29600	33300	37200	38100	42300	46800	51600	56800	3.4	4.7	6.6	2.6	3.8
FFWP-042Z-TFC	ZS33KAE-TF5	26200	29600	33300	37200	38100	42300	46800	51600	56800	3.4	4.7	6.6	2.6	3.8
FFWP-042Z-TFD	ZS33KAE-TFD	26200	29600	33300	37200	38100	42300	46800	51600	56800	3.4	4.7	6.6	3.2	4.7
FFWP-050Z-CFV	ZS38K4E-PFV	30400	35000	39900	45100	45000	50400	55900	61500	67200	3.7	5.3	7.8	3.2	4.7
FFWP-050Z-TFC	ZS38K4E-TF5	30400	35000	39900	45100	45000	50400	55900	61500	67200	3.7	5.3	7.8	3.2	4.7
FFWP-050Z-TFD	ZS38K4E-TFD	30400	35000	39900	45100	45000	50400	55900	61500	67200	3.7	5.3	7.8	3.8	5.7
FFWP-050Z-TFE	ZS38K4E-TFE	30400	35000	39900	45100	45000	50400	55900	61500	67200	3.7	5.3	7.8	3.8	5.7
FFWP-050Z-TFD	ZS38K4E-TFD	16000	18100	20400	23000	25800	28800	30800	34300	38100	42300	47200	2.1	3.8	5.7
FFWP-050Z-TFE	ZS38K4E-TFE	16000	18100	20400	23000	25800	28800	30800	34300	38100	42300	47200	2.1	3.8	5.7

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

R-407C Med/High Temp

Copeland Scroll™ water-cooled condensing units

Model	Compressor	0	5	10	15	20	20@40	25@65	30	35	40	45	0	25	45
BTU/H at 105° condensing, 75° water inlet - evaporator temp (°F)													Water flow (GPM) @ evap temp (°F)		
FFWP-042Z-CFV	ZS33KAE-PFV	19700	22900	26200	29600	33300	37200	38100	42300	46800	51600	56800	2.7	4.7	6.6
FFWP-042Z-TFC	ZS33KAE-TF5	19700	22900	26200	29600	33300	37200	38100	42300	46800	51600	56800	2.7	4.7	6.6
FFWP-042Z-TFD	ZS33KAE-TFD	19700	22900	26200	29600	33300	37200	38100	42300	46800	51600	56800	2.7	4.7	6.6
FFWP-050Z-CFV	ZS38K4E-PFV	22500	26200	30400	35000	39900	45100	45000	50400	55900	61500	67200	2.9	5.3	7.8
FFWP-050Z-TFC	ZS38K4E-TF5	22500	26200	30400	35000	39900	45100	45000	50400	55900	61500	67200	2.9	5.3	7.8
FFWP-050Z-TFD	ZS38K4E-TFD	22500	26200	30400	35000	39900	45100	45000	50400	55900	61500	67200	2.9	5.3	7.8
FFWP-050Z-TFE	ZS38K4E-TFE	22500	26200	30400	35000	39900	45100	45000	50400	55900	61500	67200	2.9	5.3	7.8

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-448A/R-449A Med/High Temp

Copeland Scroll™ water-cooled condensing units

Model	Compressor	0	5	10	15	20	20@40	25@65	30	35	40	45	0	25	45
BTU/H at 105° condensing, 75° water inlet - evaporator temp (°F)													Water flow (GPM) @ evap temp (°F)		
FFWP-015Z-CFV	ZS09KAE-PFV	4070	4620	5220	5870	6590	7380	7620	8500	9460	10500	11600	0.6	1.0	1.4
FFWP-015Z-TFC	ZS09KAE-TF5	4070	4620	5220	5870	6590	7380	7620	8500	9460	10500	11600	0.6	1.0	1.4
FFWP-015Z-TFD	ZS09KAE-TFD	4070	4620	5220	5870	6590	7380	7620	8500	9460	10500	11600	0.6	1.0	1.4
FFWP-017Z-CFV	ZS11KAE-PFV	4850	5510	6230	7010	7870	8810	9090	10100	11300	12500	13900	0.7	1.1	1.4
FFWP-017Z-TFC	ZS11KAE-TF5	4850	5510	6230	7010	7870	8810	9090	10100	11300	12500	13900	0.7	1.1	1.7
FFWP-017Z-TFD	ZS11KAE-TFD	4850	5510	6230	7010	7870	8810	9090	10100	11300	12500	13900	0.7	1.1	1.7
FFWP-020Z-CFV	ZS13KAE-PFV	5540	6290	7110	8010	8990	10100	10400	11600	12900	14300	15900	0.8	1.3	1.97
FFWP-020Z-TFC	ZS13KAE-TF5	5540	6290	7110	8010	8990	10100	10400	11600	12900	14300	15900	0.8	1.3	1.97
FFWP-020Z-TFD	ZS13KAE-TFD	5540	6290	7110	8010	8990	10100	10400	11600	12900	14300	15900	0.8	1.3	1.97
FFWP-021Z-TFC	ZS15K4E-TF5	6570	7440	8400	9450	10600	11900	12100	13500	15000	16700	18500	0.9	1.5	2.3
FFWP-021Z-TFD	ZS15K4E-TFD	6570	7440	8400	9450	10600	11900	12100	13500	15000	16700	18500	0.9	1.5	2.3
FFWP-022Z-CFV	ZS15KAE-PFV	6680	7590	8570	9650	10800	12100	12500	14000	15600	17300	19100	0.9	1.6	2.3
FFWP-022Z-TFC	ZS15KAE-TF5	6680	7590	8570	9650	10800	12100	12500	14000	15600	17300	19100	0.9	1.6	2.3
FFWP-022Z-TFD	ZS15KAE-TFD	6680	7590	8570	9650	10800	12100	12500	14000	15600	17300	19100	0.9	1.6	2.3
FFWP-030Z-CFV	ZS19KAE-PFV	7540	8560	9680	10900	12200	13700	14100	15800	17500	19500	21600	1.0	1.8	2.5
FFWP-030Z-TFC	ZS19KAE-TF5	7540	8560	9680	10900	12200	13700	14100	15800	17500	19500	21600	1.0	1.8	2.5
FFWP-030Z-TFD	ZS19KAE-TFD	7540	8560	9680	10900	12200	13700	14100	15800	17500	19500	21600	1.0	1.8	2.5
FFWP-032Z-CFV	ZS21KAE-PFV	10100	11500	13000	14600	16400	18400	19000	21200	23600	26200	29000	1.4	2.3	3.4
FFWP-032Z-TFC	ZS21KAE-TF5	10100	11500	13000	14600	16400	18400	19000	21200	23600	26200	29000	1.4	2.3	3.4
FFWP-032Z-TFD	ZS21KAE-TFD	10100	11500	13000	14600	16400	18400	19000	21200	23600	26200	29000	1.4	2.3	3.4
FFWP-040Z-CFV	ZS26KAE-PFV	11600	13200	14900	16800	18900	21100	21000	23500	26100	29000	32200	1.5	2.6	3.8
FFWP-040Z-TFC	ZS26KAE-TF5	11600	13200	14900	16800	18900	21100	21000	23500	26100	29000	32200	1.5	2.6	3.8
FFWP-040Z-TFD	ZS26KAE-TFD	11600	13200	14900	16800	18900	21100	21000	23500	26100	29000	32200	1.5	2.6	3.8
FFWP-042Z-CFV	ZS33KAE-PFV	14000	15800	17900	20200	22600	25300	26100	29200	32500	36100	40000	1.9	3.2	4.7
FFWP-042Z-TFC	ZS33KAE-TF5	14000	15800	17900	20200	22600	25300	26100	29200	32500	36100	40000	1.9	3.2	4.7
FFWP-042Z-TFD	ZS33KAE-TFD	14000	15800	17900	20200	22600	25300	26100	29200	32500	36100	40000	1.9	3.2	4.7
FFWP-050Z-CFV	ZS38K4E-PFV	16000	18100	20400	23000	25800	28800	30800	34300	38100	42300	47200	2.1	3.8	5.7
FFWP-050Z-TFC	ZS38K4E-TF5	16000	18100	20400	23000	25800	28800	30800	34300	38100	42300	47200	2.1	3.8	5.7
FFWP-050Z-TFD	ZS38K4E-TFD	16000	18100	20400	23000	25800	28800	30800	34300	38100	42300	47200	2.1	3.8	5.7
FFWP-050Z-TFE	ZS38K4E-TFE	16000	18100	20400	23000	25800	28800	30800	34300	38100	42300	47200	2.1	3.8	5.7

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

Copeland to Copeland Cross Reference

Old Model	New Model	Old Model	New Model	Old Model	New Model
DJAL-015Z-CFV-015	FFAL-015Z-CFV-072	DJAL-050Z-TFC-001	FFAL-050Z-TFC-071	FJAF-0108-CFV-052	M6KP-0106-CFV-072
DJAL-015Z-CFV-081	FFAL-015Z-CFV-072	DJAL-050Z-TFD-001	FFAL-050Z-TFD-071	FJAF-0108-CFV-072	M6KP-0106-CFV-072
DJAL-015Z-TFC-015	FFAL-015Z-TFC-072	DJAL-051Z-TFC-015	Contact AE	FJAF-0108-CFV-075	M6KP-0106-CFV-072
DJAL-015Z-TFC-072	FFAL-015Z-TFC-072	DJAL-051Z-TFC-020	Contact AE	FJAF-0108-CFV-076	M6KP-0106-CFV-072
DJAL-015Z-TFC-073	FFAL-015Z-TFC-072	DJAL-051Z-TFC-071	Contact AE	FJAF-0108-CFV-121	M6KP-0106-CFV-177
DJAL-015Z-TFC-081	FFAL-015Z-TFC-072	DJAL-051Z-TFC-072	Contact AE	FJAF-0108-CFV-160	M6KP-0106-CFV-177
DJAL-015Z-TFD-015	FFAL-015Z-TFD-072	DJAL-051Z-TFC-073	Contact AE	FJAF-0108-CFV-212	M6KP-0106-CFV-177
DJAL-015Z-TFD-073	FFAL-015Z-TFD-072	DJAL-051Z-TFC-081	Contact AE	FJAF-0108-TAC-020	M6KP-0106-TAC-072
DJAL-020Z-CFV-015	FFAL-020Z-CFV-071	DJAL-051Z-TFD-072	Contact AE	FJAF-0108-TAC-052	M6KP-0106-TAC-072
DJAL-020Z-CFV-081	FFAL-020Z-CFV-071	DJAL-051Z-TFD-081	Contact AE	FJAF-0110-CFV-021	M6KP-0116-CFV-072
DJAL-020Z-TFC-015	FFAL-020Z-TFC-071	DJAL-A60Z-TFC-071	Contact AE	FJAF-0125-CFV-020	M6KP-0112-CFV-072
DJAL-020Z-TFC-072	FFAL-020Z-TFC-071	DJAL-A60Z-TFD-071	Contact AE	FJAF-0125-CFV-072	M6KP-0112-CFV-072
DJAL-020Z-TFC-081	FFAL-020Z-TFC-071	F3AH-B100-CAV-072	Obsolete R22 Unit	FJAF-0125-CFV-075	M6KP-0112-CFV-072
DJAL-020Z-TFD-020	FFAL-020Z-TFD-071	F3AH-B100-CFA-020	Obsolete R22 Unit	FJAF-0125-CFV-077	M6KP-0112-CFV-072
DJAL-022Z-CFV-001	FFAL-022Z-CFV-071	F3AH-B105-CFV-020	Obsolete R22 Unit	FJAF-0125-TAC-020	M6KP-0112-TAC-072
DJAL-022Z-CFV-081	FFAL-022Z-CFV-071	F3AH-B105-TAC-020	Obsolete R22 Unit	FJAF-0125-TAC-060	M6KP-0112-TAC-072
DJAL-022Z-TFC-020	FFAL-022Z-TFC-071	F3AH-N100-CAV-199	Obsolete R22 Unit	FJAF-0125-TAC-061	M6KP-0112-TAC-072
DJAL-022Z-TFC-072	FFAL-022Z-TFC-071	F3AH-N100-CFA-199	Obsolete R22 Unit	FJAF-0125-TAC-072	M6KP-0112-TAC-072
DJAL-022Z-TFC-073	FFAL-022Z-TFC-071	F3AH-N110-CFV-199	Obsolete R22 Unit	FJAF-0125-TAC-075	M6KP-0112-TAC-072
DJAL-022Z-TFC-081	FFAL-022Z-TFC-071	F3AH-N120-CFV-199	Obsolete R22 Unit	FJAF-0125-TAC-076	M6KP-0112-TAC-072
DJAL-022Z-TFD-020	FFAL-022Z-TFD-071	F3AH-N125-CFV-199	Obsolete R22 Unit	FJAF-0125-TAC-077	M6KP-0112-TAC-072
DJAL-025Z-CFV-001	Contact AE	F3AH-N125-TAC-199	Obsolete R22 Unit	FJAF-0126-CFV-020	M6KP-0127-CFV-072
DJAL-025Z-TFC-001	Contact AE	F3WH-B105-CFV-020	Obsolete R22 Unit	FJAF-0126-TAC-020	M6KP-0127-TAC-072
DJAL-025Z-TFD-001	Contact AE	F3WH-B105-TAC-020	Obsolete R22 Unit	FJAF-0126-TAC-060	M6KP-0127-TAC-072
DJAL-026Z-CFV-081	FFAL-026Z-CFV-071	FBAH-C100-CFV-020	Obsolete R22 Unit	FJAF-0126-TAC-061	M6KP-0127-TAC-072
DJAL-026Z-TFC-015	FFAL-026Z-TFC-071	FEAF-0103-CAV-060	M6RP-H098-CAV-072	FJAF-0130-CFV-072	M6KP-0142-CFV-072
DJAL-026Z-TFC-072	FFAL-026Z-TFC-071	FEAF-0103-CAV-140	M6RP-H098-CAV-072	FJAF-0130-CFV-075	M6KP-0142-CFV-072
DJAL-026Z-TFC-073	FFAL-026Z-TFC-071	FEAF-A100-CFV-140	M6RP-H114-CFV-072	FJAF-0130-CFV-076	M6KP-0142-CFV-072
DJAL-026Z-TFC-081	FFAL-026Z-TFC-071	FEAM-0108-CFA-160	Obsolete	FJAF-0130-CFV-077	M6KP-0142-CFV-072
DJAL-026Z-TFD-020	FFAL-026Z-TFD-071	FEAM-0108-CFV-160	M6RP-H114-CFV-072	FJAF-0130-CFV-0H2	M6KP-0142-CFV-072
DJAL-030Z-CFV-001	FFAL-030Z-CFV-071	FEAM-0108-CFV-161	M6RP-H114-CFV-072	FJAF-0130-CFV-212	M6KP-0142-CFV-177
DJAL-030Z-CFV-015	FFAL-030Z-CFV-071	FEAM-A100-IAV-160	M6RP-H098-CAV-072	FJAF-0130-CFV-272	M6KP-0142-CFV-177
DJAL-030Z-CFV-081	FFAL-030Z-CFV-071	FEAM-A130-CFV-160	M6RP-H126-CFV-072	FJAF-0130-TAC-076	M6KP-0142-TAC-072
DJAL-030Z-TFC-001	FFAL-030Z-TFC-071	FJAF-0100-CAV-020	M6KP-0095-CFV-072	FJAF-0130-TAC-077	M6KP-0142-TAC-072
DJAL-030Z-TFC-015	FFAL-030Z-TFC-071	FJAF-0100-CAV-040	M6KP-0095-CFV-072	FJAF-0130-TAC-0H2	M6KP-0142-TAC-072
DJAL-030Z-TFC-073	FFAL-030Z-TFC-071	FJAF-0100-CAV-060	M6KP-0095-CFV-072	FJAF-B100-CFV-021	M6KP-0106-CFV-072
DJAL-030Z-TFC-081	FFAL-030Z-TFC-071	FJAF-0100-CAV-061	M6KP-0095-CFV-072	FJAF-B100-CFV-115	M6KP-0106-CFV-072
DJAL-030Z-TFD-001	FFAL-030Z-TFD-071	FJAF-0100-CAV-272	M6KP-0095-CFV-272	FJAF-B100-CFV-121	M6KP-0106-CFV-177
DJAL-030Z-TFD-020	FFAL-030Z-TFD-071	FJAF-0100-IAV-140	M6KP-0092-CAV-272	FJAF-B100-CFV-210	M6KP-0106-CFV-272
DJAL-030Z-TFD-073	FFAL-030Z-TFD-071	FJAF-0100-IAV-212	M6KP-0092-CAV-177	FJAF-B100-CFV-212	M6KP-0106-CFV-177
DJAL-040Z-CFV-001	FFAL-040Z-CFV-071	FJAF-0106-CAV-017	M6KP-0102-CAV-072	FJAF-B100-CFV-221	M6KP-0106-CFV-177
DJAL-040Z-TFC-001	FFAL-040Z-TFC-071	FJAF-0106-CAV-020	M6KP-0102-CAV-072	FJAF-B100-CFV-240	M6KP-0106-CFV-177
DJAL-041Z-CFV-020	Contact AE	FJAF-0106-CAV-022	M6KP-0102-CAV-072	FJAF-B100-CFV-245	M6KP-0106-CFV-272
DJAL-041Z-CFV-072	Contact AE	FJAF-0106-CAV-0H2	M6KP-0102-CAV-072	FJAF-E100-CAV-020	M6KP-0095-CFV-072
DJAL-041Z-CFV-081	Contact AE	FJAF-0106-CAV-0H3	M6KP-0102-CAV-072	FJAF-E100-CAV-040	M6KP-0095-CFV-072
DJAL-041Z-TFC-020	Contact AE	FJAF-0106-CAV-160	M6KP-0102-CAV-177	FJAF-E100-CAV-041	M6KP-0095-CFV-072
DJAL-041Z-TFC-072	Contact AE	FJAF-0106-CAV-208	M6KP-0102-CAV-179	FJAF-E108-CFV-020	M6KP-0106-CFV-177
DJAL-041Z-TFC-081	Contact AE	FJAF-0108-CFV-020	M6KP-0106-CFV-072	FJAF-E108-CFV-160	M6KP-0106-CFV-177
DJAL-041Z-TFD-020	Contact AE	FJAF-0108-CFV-021	M6KP-0106-CFV-072	FJAF-E110-CFV-021	M6KP-0106-CFV-072
DJAL-041Z-TFD-081	Contact AE	FJAF-0108-CFV-040	M6KP-0106-CFV-072	FJAF-E110-CFV-022	M6KP-0106-CFV-072

Copeland to Copeland Cross Reference

Old Model	New Model	Old Model	New Model	Old Model	New Model
FJAF-E110-CFV-040	M6KP-0106-CFV-072	FJAM-A60Z-TFC-020	Contact AE	FTAH-A15Z-CFV-020	Contact AE
FJAF-E110-CFV-121	M6KP-0106-CFV-072	FJAM-A60Z-TFC-072	Contact AE	FTAH-A15Z-CFV-072	Contact AE
FJAF-E110-CFV-212	M6KP-0106-CFV-177	FJAM-A60Z-TFC-073	Contact AE	FTAH-A15Z-TFC-020	Contact AE
FJAL-0105-CFV-020	M6KL-0123-CFV-072	FJAM-A60Z-TFD-015	Contact AE	FTAH-A15Z-TFD-020	Contact AE
FJAL-0105-CFV-040	M6KL-0123-CFV-072	FJCL-B100-CFV-212	Contact AE	FTAH-A15Z-TFD-072	Contact AE
FJAL-0105-CFV-044	M6KL-0123-CFV-072	FJCL-B100-CFV-215	Contact AE	FTAH-A20Z-CFV-020	Contact AE
FJAL-0105-CFV-072	M6KL-0123-CFV-072	FJEF-0100-CAV-160	M6BP-0096-CFV-177	FTAH-A20Z-CFV-071	Contact AE
FJAL-0105-CFV-075	M6KL-0123-CFV-072	FJEF-0100-CAV-260	M6BP-0096-CFV-177	FTAH-A20Z-CFV-072	Contact AE
FJAL-0105-CFV-077	M6KL-0123-CFV-072	FJEF-0100-CFA-121	M6BP-0092-CFA-177	FTAH-A20Z-CFV-073	Contact AE
FJAM-A20Z-CFV-072	Contact AE	FJEF-0108-CFV-060	M6BP-0106-CFV-272	FTAH-A20Z-TFC-020	Contact AE
FJAM-A20Z-CFV-073	Contact AE	FJEF-0108-CFV-121	M6BP-0106-CFV-177	FTAH-A20Z-TFC-071	Contact AE
FJAM-A20Z-TFC-015	Contact AE	FJEF-0108-CFV-212	M6BP-0106-CFV-177	FTAH-A20Z-TFD-015	Contact AE
FJAM-A20Z-TFC-073	Contact AE	FJEL-0105-CFV-060	M6BL-0123-CFV-072	FTAH-A20Z-TFD-020	Contact AE
FJAM-A20Z-TFD-015	Contact AE	FJEL-0105-CFV-160	M6BL-0123-CFV-177	FTAH-A25Z-CFV-015	Contact AE
FJAM-A25Z-CFV-020	Contact AE	FJWF-C106-CAV-020	M6WF-0106-CAV-020	FTAH-A25Z-CFV-072	Contact AE
FJAM-A25Z-CFV-071	Contact AE	FJWF-C125-CFV-020	M6WF-0125-CFV-020	FTAH-A25Z-CFV-078	Contact AE
FJAM-A25Z-CFV-072	Contact AE	FJWF-C125-TAC-020	M6WF-0125-TAC-020	FTAH-A25Z-TFC-020	Contact AE
FJAM-A25Z-CFV-073	Contact AE	FJWF-C125-TAC-060	M6WF-0125-TAC-020	FTAH-A25Z-TFC-071	Contact AE
FJAM-A25Z-TFC-015	Contact AE	FJWF-C126-CFV-020	M6WF-0126-CFV-020	FTAH-A25Z-TFC-072	Contact AE
FJAM-A25Z-TFC-020	Contact AE	FJWF-C126-CFV-276	M6WF-0126-CFV-020	FTAH-A30Z-CFV-015	Contact AE
FJAM-A25Z-TFC-071	Contact AE	FJWF-C126-TAC-020	M6WF-0126-TAC-020	FTAH-A30Z-CFV-073	Contact AE
FJAM-A25Z-TFC-073	Contact AE	FJWF-C126-TAC-060	M6WF-0126-TAC-020	FTAH-A30Z-TFC-015	Contact AE
FJAM-A25Z-TFD-015	Contact AE	FJWL-C105-CFV-020	M6WL-0105-CFV-020	FTAH-A30Z-TFC-020	Contact AE
FJAM-A30Z-CFV-020	Contact AE	FJWL-C105-TAC-020	M6WL-0105-TAC-020	FTAH-A30Z-TFD-015	Contact AE
FJAM-A30Z-CFV-071	Contact AE	FNAR-070Z-TFC-001	Contact AE	FTAH-A30Z-TFD-020	Contact AE
FJAM-A30Z-CFV-072	Contact AE	FNAR-070Z-TFD-001	Contact AE	FTAH-A35Z-CFV-015	Contact AE
FJAM-A30Z-TFC-020	Contact AE	FNAR-070Z-TFE-001	Contact AE	FTAH-A35Z-CFV-020	Contact AE
FJAM-A30Z-TFC-071	Contact AE	FNAR-080Z-TFC-001	Contact AE	FTAH-A35Z-CFV-073	Contact AE
FJAM-A30Z-TFC-072	Contact AE	FNAR-080Z-TFD-001	Contact AE	FTAH-A35Z-TFC-015	Contact AE
FJAM-A30Z-TFC-073	Contact AE	FNAR-080Z-TFE-001	Contact AE	FTAH-A35Z-TFC-020	Contact AE
FJAM-A35Z-TFC-072	Contact AE	FNAR-091Z-TFC-001	Contact AE	FTAH-A35Z-TFD-015	Contact AE
FJAM-A40Z-CFV-015	Contact AE	FNAR-091Z-TFD-001	Contact AE	FTAH-A35Z-TFD-020	Contact AE
FJAM-A40Z-CFV-072	Contact AE	FNAR-101Z-TFC-001	Contact AE	FTAH-A45Z-TFC-015	Contact AE
FJAM-A40Z-TFC-015	Contact AE	FNAR-101Z-TFD-001	Contact AE	FTAH-A45Z-TFC-020	Contact AE
FJAM-A40Z-TFC-072	Contact AE	FNAR-101Z-TFE-001	Contact AE	FTAH-A45Z-TFC-071	Contact AE
FJAM-A40Z-TFC-073	Contact AE	FPAN-070Z-TFC-071	FFAM-071Z-TFC-071	FTAH-A45Z-TFC-073	Contact AE
FJAM-A40Z-TFD-015	Contact AE	FPAN-070Z-TFD-071	FFAM-071Z-TFD-071	FTAH-A45Z-TFD-020	Contact AE
FJAM-A50Z-CFV-015	Contact AE	FPAN-070Z-TFD-073	FFAM-071Z-TFD-071	FTAH-A45Z-TFD-073	Contact AE
FJAM-A50Z-CFV-020	Contact AE	FPAN-080Z-TFC-071	FFAM-081Z-TFC-071	FTAH-A50Z-TFC-073	Contact AE
FJAM-A50Z-CFV-072	Contact AE	FPAN-080Z-TFD-071	FFAM-081Z-TFD-071	FTAH-A50Z-TFD-015	Contact AE
FJAM-A50Z-CFV-073	Contact AE	FPAN-080Z-TFD-073	FFAM-081Z-TFD-071	FTAH-C100-CFA-121	M7KH-0086-CFA-177
FJAM-A50Z-TFC-015	Contact AE	FPAN-091Z-TFC-071	FFAM-091Z-TFC-071	FTAH-C100-CFV-020	M7KH-0086-CFV-072
FJAM-A50Z-TFC-020	Contact AE	FPAN-091Z-TFD-071	FFAM-091Z-TFD-071	FTAH-C100-CFV-117	M7KH-0086-CFV-179
FJAM-A50Z-TFC-072	Contact AE	FPAN-101Z-TFC-071	FFAM-101Z-TFC-071	FTAH-C100-CFV-212	M7KH-0086-CFV-177
FJAM-A50Z-TFC-073	Contact AE	FPAN-101Z-TFD-071	FFAM-101Z-TFD-071	FTAH-C100-CFV-240	M7KH-0086-CFV-272
FJAM-A50Z-TFD-015	Contact AE	FPAN-101Z-TFD-073	FFAM-101Z-TFD-071		
FJAM-A50Z-TFD-020	Contact AE	FTAH-A13Z-CFV-020	Contact AE		
FJAM-A50Z-TFD-073	Contact AE	FTAH-A13Z-TFC-020	Contact AE		
FJAM-A50Z-TFE-015	Contact AE	FTAH-A13Z-TFC-072	Contact AE		
FJAM-A60Z-TFC-015	Contact AE	FTAH-A13Z-TFD-072	Contact AE		

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



Hold 3 Seconds to Enter Menu (PSI Light Will Flash) ▾ + SET

Cycle Through Menu Options ▲ ▾

Select Function SET

Adjust Value ▲ ▾

Store Function SET

Exit Menu ▲ + SET

Functions

[in]
Low Pressure Cut-In

[CoU]
Low Pressure Cut-Out

More information inside panel

Alarm	Description	Alarm	Description
PoF	Keypad locked	HP	High pressure trip alarm
Pon	Keypad unlocked	HA	High condenser temperature alarm
P1	Suction probe failure	HPL	High pressure trip lock-out alarm
P2	Condenser probe failure		
P3	DLT probe failure		
dLt	DLT temperature alarm		
dLL	DLT lock alarm		
EE	Module Failure		

Scan for Electronic Unit Controller Alarm Code and Service Information
052-7269-00

Note: After 15 seconds of inactivity the controller will revert to the default display

BUTTON	DESCRIPTION
SET	Displays set point In programming mode it confirms an operation.
RESTART	Allows a manual restart and a dead band reset
SERVICE	To enter the service menu.
Alarm menu	To enter the Alarm menu.

Note: Fan Cycling (If Present) is controlled by the Saturated Condenser Temperature for equal runtime

Default Factory Settings For Replacement Controller

Cin = 25	AC = 6	P1E = 135	dly = 0	bEn = 4
CoU = 15	ono = 0	P1d = 15	bMP = no	Di1 = YES
LS = 5	Con = 5	Unt = PSI	On = 2	i1P = CL
US = 135	CoF = 5	CF = F	oFF = 5	Di1 = no
odS = 2	P1i = -15	rES = in	Nub = 3	i2P = CL

Call 1-888-367-9950 or
see www.EmersonClimate.com/EUC for more details

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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Copeland™ M-Line

Air-cooled and water-cooled condensing units

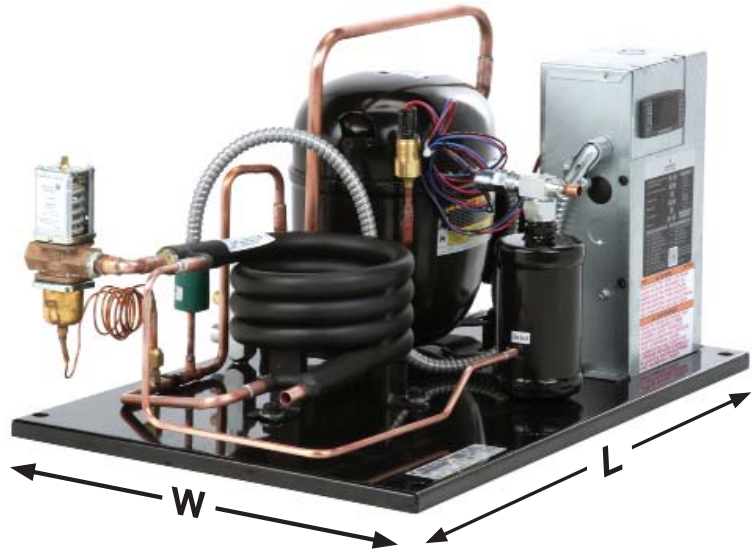
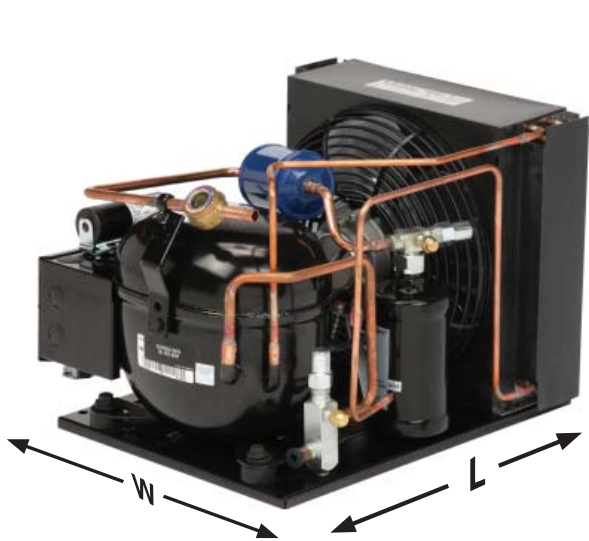
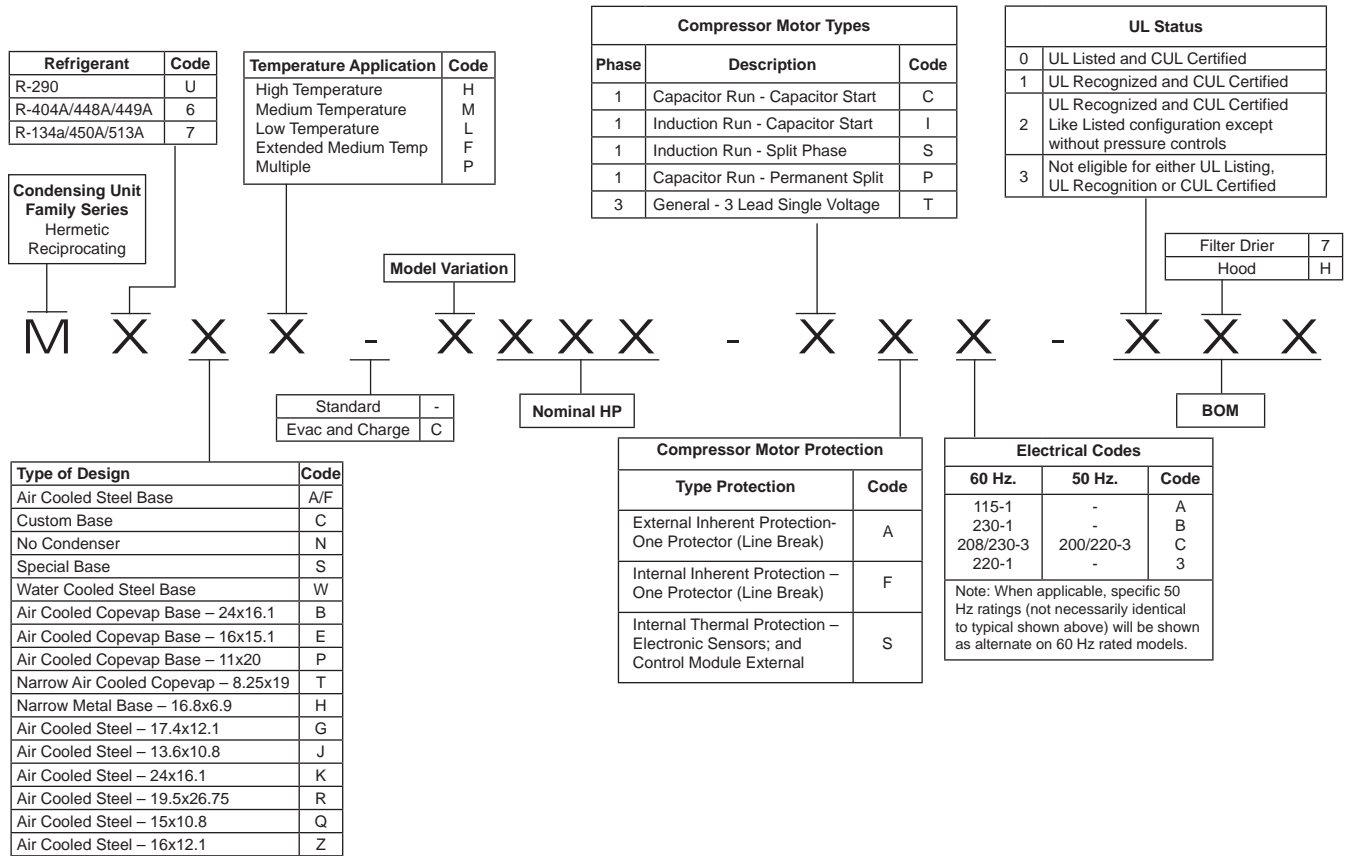


Product Information

Horsepower: 1/6 – 1 1/2
Refrigerants: R-134a, R-290, R-404A ,
R-448A, R-449A, R-450A, R-513A



Nomenclature • M-Line Units



Bill of Materials Matrix

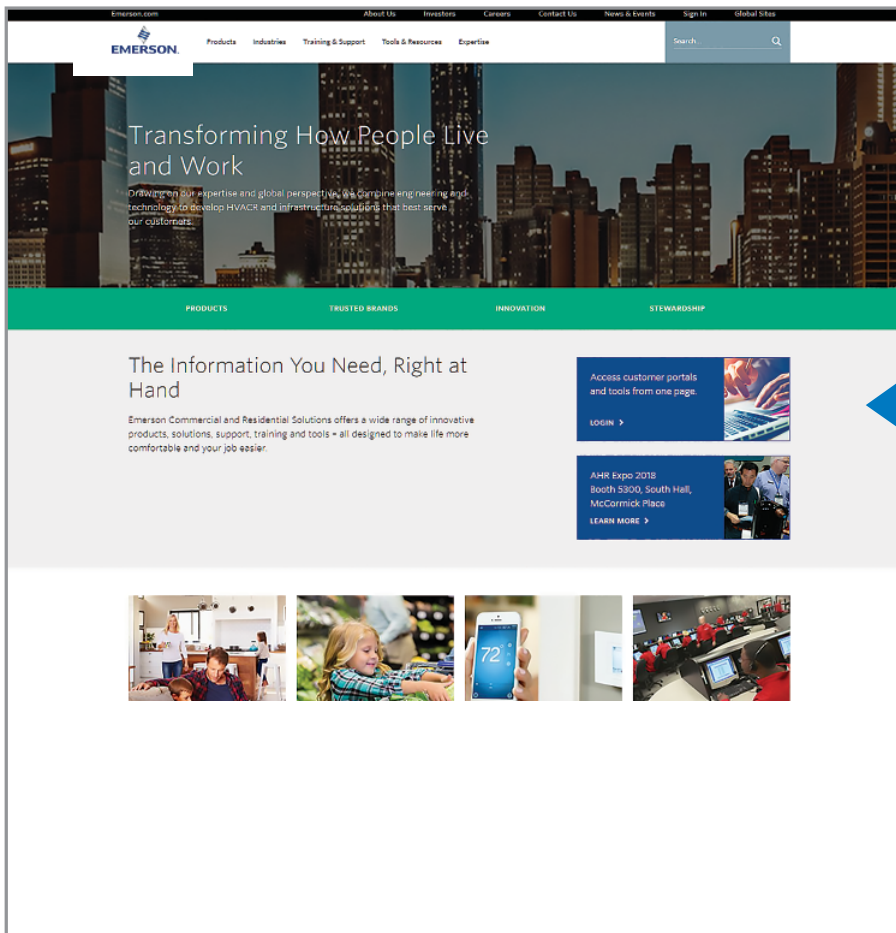
Features	Steel Base Standard BOMs			Condensate Base Standard BOMs						R-290 Units
	Air Cooled		Water Cooled	E Base		T Base		B/P Base		
	177	179	020	103	111	108	118	177	179	173
Receiver W/ Valve	X		X	X			X	X		
Suction Valve	X	X	X	X	X			X	X	
Liquid Base Valve		X			X				X	
Fan Guard	X	X				X	X	X	X	X
End Covers						X	X			X
Conduit			X							
Power Cord	X	X		X	X	X	X	X	X	X
Pressure Control/EUC										
Filter Drier	X	X						X	X	X
Moisture Indicator	X							X		
Water Valve			X							
UL Listed			X							
UL Recognized	X	X		X	X	X	X	X	X	X

Optional BOMs										
	020	028*	212	072	078*	272				
Receiver	X	X	X	X	X	X				
Suction Valve	X	X	X	X	X	X				
Fan Guard	X	X	X	X	X	X				
End Covers	X	X	X	X	X	X				
Power Cord										
Filter Drier				X	X	X				
Moisture Indicator				X	X	X				
Pressure Control/EUC	X			X						
Conduit	X	X	X	X	X	X				
UL Listed	X	X		X	X					
UL Recognized			X			X				

* Units with a compressor RLA under 6A do not require pressure controls for UL listing. xx8 will identify units under 6A that are listed, but do not have pressure controls.

Copeland™ air-cooled and water-cooled condensing units

Features	Benefits
<p>Copeland™ Hermetic Compressor and Heavy Duty Unit Bearing Fan Motor</p>	<p>Reliability</p> <p>High Energy Efficiency</p> <p>Low Sound & Vibration</p>
<p>Modular Components</p>	<p>Replacement Serviceability</p>
<p>Compact Design</p> <p>All Models Rated Up To 110°F Ambient</p>	<p>Application Flexibility</p>



Climate.Emerson.com

Register for more product information

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

Physical and Electrical Data

Copeland air-cooled condensing units

Model	Compressor Electrical	Length	Width	Height	Refrigerant Connections		Receiver Capacity (Lbs @ 90% Volume)					MCA	Max Fuse	Ship Weight
					Liquid	Suction	134a	404A	448A	449A	450A			
M6GL-H070-CAA	RFT22C1E-CAA	18.86	14.34	11.79	3/8	1/2	1.3	1.4	1.4			11.7	15	0
M6GL-H070-CAV	RFT22C1E-CAV	18.86	14.34	11.79	3/8	1/2	1.3	1.4	1.4			7.5	15	0
M6GL-H079-CAA	RFT26C1E-CAA	18.86	14.34	11.79	3/8	1/2	1.3	1.4	1.4			15.1	20	0
M6GL-H079-CAV	RFT26C1E-CAV	18.86	14.34	11.79	3/8	1/2	1.3	1.4	1.4			9	15	0
M6GP-H064-CAA	RST45C1E-CAA	18.86	14.34	11.79	3/8	1/2	1.3	1.4	1.4			14.8	20	0
M6GP-H064-CAV	RST45C1E-CAV	18.86	14.34	11.79	3/8	1/2	1.3	1.4	1.4			7.4	15	0
M6GP-H074-CAA	RST55C1E-CAA	18.86	14.34	11.79	3/8	1/2	1.3	1.4	1.4			20.5	30	0
M6GP-H074-CAV	RST55C1E-CAV	18.86	14.34	11.79	3/8	1/2	1.3	1.4	1.4			9.5	15	0
M6GP-H090-CAA	RST64C1E-CAA	18.82	14.34	12.29	3/8	1/2	1.3	1.4	1.4			12.3	20	0
M6GP-H090-CAV	RST64C1E-CAV	18.82	14.34	12.29	3/8	1/2	1.3	1.4	1.4			20	30	0
M6GP-H090-CFA	RST64C1E-CFA	18.82	14.34	12.29	3/8	1/2	1.3	1.4	1.4			20	30	0
M6JL-0021-IAA	AFE08C4E-IAA	14.1	11.45	11.37	1/4	5/16	1.3	1.4	1.4			5.5	15	0
M6JL-0026-IAA	AFE11C4E-IAA	14.1	11.45	11.37	1/4	5/16	1.3	1.4	1.4			5.9	15	0
M6JL-0039-IAA	AFE11C4E-IAA	14.1	11.45	11.37	1/4	5/16	1.3	1.4	1.4			10.4	15	0
M6JL-0039-IAV	AFE17C4E-IAV	14.1	11.45	11.37	1/4	5/16	1.3	1.4	1.4			5.6	15	0
M6JL-H023-IAA	AFE08C4E-IAA	14.11	11.45	11.37	1/4	3/8	1.3	1.4	1.4			5.5	15	0
M6JL-H030-IAA	AFE11C4E-IAA	14.11	11.45	11.37	1/4	3/8	1.3	1.4	1.4			5.9	15	0
M6JL-H038-IAA	AFE13C4E-IAA	14.39	11.57	11.37	1/4	3/8	1.3	1.4	1.4			7.7	15	0
M6JL-H041-IAA	AFE14C5E-IAA	14.39	11.57	11.37	1/4	3/8	1.3	1.4	1.4			8.2	15	0
M6JL-H041-IAV	AFE14C5E-IAV	14.39	11.57	11.37	1/4	3/8	1.3	1.4	1.4			4.3	15	0
M6JL-H048-IAA	AFE17C4E-IAA	14.39	11.57	11.37	1/4	3/8	1.3	1.4	1.4			10.4	15	0
M6JL-H048-IAV	AFE17C4E-IAV	14.39	11.57	11.37	1/4	3/8	1.3	1.4	1.4			5.6	15	0
M6JL-H052-IAA	AFE20C5E-IAA	14.39	11.45	11.37	1/4	3/8	1.3	1.4	1.4			8.5	15	0
M6JL-H052-IAV	AFE20C5E-IAV	14.39	11.45	11.37	1/4	3/8	1.3	1.4	1.4			5.9	15	0
M6JM-0017-IAA	ASE12C4E-IAA	14.1	11.45	11.37	1/4	5/16	1.3	1.4	1.4			5.4	15	0
M6JM-H020-IAA	ASE12C4E-IAA	14.11	11.45	11.37	1/4	3/8	1.3	1.4	1.4			5.4	15	0
M6JM-H023-IAA	ASE14C4E-IAA	14.11	11.45	11.37	1/4	3/8	1.3	1.4	1.4			6.7	15	0
M6JM-H028-IAA	ASE20C4E-IAA	14.11	11.45	11.37	1/4	3/8	1.3	1.4	1.4			8.2	15	0
M6JM-H028-IAV	ASE20C4E-IAV	14.11	11.45	11.37	1/4	3/8	1.3	1.4	1.4			4.4	15	0
M6JM-H030-IAA	ASE24C5E-IAA	14.39	11.57	11.37	1/4	3/8	1.3	1.4	1.4			8.4	15	0
M6JM-H035-IAA	ASE28C5E-IAA	14.39	11.57	11.37	1/4	3/8	1.3	1.4	1.4			9.7	15	0
M6JM-H035-IAV	ASE28C5E-IAV	14.39	11.57	11.37	1/4	3/8	1.3	1.4	1.4			5.6	15	0
M6JM-H043-IAA	ASE39C5E-IAA	14.39	11.45	11.37	1/4	3/8	1.3	1.4	1.4			13.2	20	0
M6KL-0123-CFA	RFT42C1E-PFA	24	16.39	13.08	3/8	1/2	2.8	3	3			21.4	30	0
M6KL-0123-CFV	RFT42C1E-PFV	24	16.39	13.08	3/8	3/8	2.8	3	3			11.2	15	0
M6KP-0064-CAA	RST45C1E-CAA	24	16.39	13.08	1/4	3/8	2.8	3	3			15.1	20	0
M6KP-0064-CAV	RST45C1E-CAV	24	16.39	13.08	1/4	3/8	2.8	3	3			7.5	15	0
M6KP-0075-CAA	RST55C1E-CAA	24	16.41	13.08	3/8	3/8	2.8	3	3			20.8	30	0
M6KP-0075-CAV	RST55C1E-CAV	24	16.39	13.08	1/4	3/8	2.8	3	3			9.7	15	0
M6KP-0092-CAV	RST64C1E-CAV	24	16.39	13.08	1/4	3/8	2.8	3	3			12.4	20	0
M6KP-0092-CFA	RST64C1E-CFA	24	16.39	13.08	3/8	3/8	2.8	3	3			20.3	30	0
M6KP-0095-CFV	RST70C1E-PFV	24	16.39	13.08	3/8	1/2	2.8	3	3			10.8	15	0
M6KP-0102-CAV	RST64C1E-CAV	24	18.42	16.16	3/8	1/2	4.9	5.1	5.1			12.7	20	0
M6KP-0102-CFA	RST64C1E-CFA	24	18.3	16.16	3/8	3/8	4.9	5.1	5.1			20.7	30	0
M6KP-0106-CFV	RST80C1E-PFV	24	16.39	13.08	3/8	1/2	2.8	3	3			12.8	20	0
M6KP-0112-CFV	RST70C1E-PFV	24	18.45	16.16	3/8	1/2	4.9	5.1	5.1			11	15	0
M6KP-0116-CFV	RST97C1E-PFV	24	16.39	13.08	3/8	1/2	2.8	3	3			13.7	20	0
M6KP-0127-CFV	RST80C1E-PFV	24	18.45	16.16	3/8	1/2	4.9	5.1	5.1			13	20	0
M6KP-0142-CFV	RST97C1E-PFV	24	18.45	16.16	3/8	1/2	4.9	5.1	5.1			13.9	20	0
M6ZL-0031-IAA	AFE11C4E-IAA	16.58	12.68	11.73	1/4	5/16	1.3	1.4	1.4			6.1	15	0
M6ZL-0040-IAA	AFE13C4E-IAA	16.58	12.68	11.73	1/4	5/16	1.3	1.4	1.4			7.9	15	0
M6ZL-0042-IAA	AFE14C5E-IAA	16.58	12.68	11.73	1/4	5/16	1.3	1.4	1.4			8.4	15	0
M6ZL-0042-IAV	AFE14C5E-IAV	16.58	12.68	11.73	1/4	5/16	1.3	1.4	1.4			4.4	15	0
M6ZL-0055-IAA	AFE20C5E-IAA	16.58	12.68	11.73	1/4	5/16	1.3	1.4	1.4			8.8	15	0
M6ZL-0055-IAV	AFE20C5E-IAV	16.58	12.68	11.73	1/4	5/16	1.3	1.4	1.4			6	15	0
M6ZL-0063-IAA	RFT22C1E-IAA	16.6	14.18	11.73	1/4	1/2						10.9	15	0
M6ZL-0063-IAV	RFT22C1E-IAV	16.6	14.1	11.73	1/4	1/2						7.1	15	0
M6ZL-0078-IAA	RFT26C1E-IAA	16.6	14.18	11.73	1/4	1/2						14.3	20	0
M6ZL-0078-IAV	RFT26C1E-IAV	16.6	14.1	11.73	1/4	1/2						8.6	15	0
M6ZL-0098-CFV	RST80C1E-PFV	17.31	13.81	12.29	3/8	1/2	1.3	1.4	1.4			12.2	20	0
M6ZL-H064-CAA	RFT22C1E-CAA	17.36	13.5	11.75	3/8	1/2	1.3	1.4	1.4			10.9	15	0
M6ZL-H064-CAV	RFT22C1E-CAV	17.36	13.45	11.75	3/8	1/2	1.3	1.4	1.4			7.1	15	0
M6ZL-H064-IAA	RFT22C1E-IAA	17.38	13.51	11.71	3/8	1/2	1.3	1.4	1.4			10.9	15	0
M6ZL-H064-IAV	RFT22C1E-IAV	17.45	13.46	11.71	3/8	1/2	1.3	1.4	1.4			7.1	15	0
M6ZL-H066-CAV	AFE23C5E-CAV	16.58	12.79	11.71	1/4	3/8	1.3	1.4	1.4			5.9	15	0
M6ZL-H076-CAV	AFE26C5E-CAV	16.58	12.79	11.71	1/4	3/8	1.3	1.4	1.4			6.5	15	0
M6ZL-H078-CAA	RFT26C1E-CAA	17.36	13.5	11.75	3/8	1/2	1.3	1.4	1.4			14.3	20	0
M6ZL-H078-CAV	RFT26C1E-CAV	17.36	13.45	11.75	3/8	1/2	1.3	1.4	1.4			8.6	15	0
M6ZL-H078-IAA	RFT26C1E-IAA	17.38	13.51	11.71	3/8	1/2	1.3	1.4	1.4			14.3	20	0
M6ZL-H078-IAV	RFT26C1E-IAV	17.45	13.46	11.71	3/8	1/2	1.3	1.4	1.4			8.6	15	0
M6ZM-0021-IAA	ASE12C4E-IAA	16.58	12.68	11.73	1/4	5/16	1.3	1.4	1.4			5.6	15	0

Physical and Electrical Data

Copeland air-cooled condensing units

Model	Compressor Electrical	Length	Width	Height	Refrigerant Connections		Receiver Capacity (Lbs @ 90% Volume)					MCA	Max Fuse	Ship Weight	
					Liquid	Suction	134a	404A	448A	449A	450A				513A
M6ZM-0025-IAA	ASE14C4E-IAA	16.58	12.68	11.73	1/4	5/16		1.3	1.4	1.4			6.9	15	0
M6ZM-0025-IAV	ASE20C4E-IAV	16.58	12.68	11.73	1/4	5/16		1.3	1.4	1.4			4.4	15	0
M6ZM-0031-IAA	ASE20C4E-IAA	16.58	12.68	11.73	1/4	5/16		1.3	1.4	1.4			8.4	15	0
M6ZM-0032-IAA	ASE24C5E-IAA	16.58	12.68	11.73	1/4	5/16		1.3	1.4	1.4			8.6	15	0
M6ZM-0038-IAA	ASE28C5E-IAA	16.58	12.68	11.73	1/4	5/16		1.3	1.4	1.4			9.9	15	0
M6ZM-0038-IAV	ASE28C5E-IAV	16.58	12.68	11.73	1/4	5/16		1.3	1.4	1.4			5.6	15	0
M6ZM-0048-IAA	ASE39C5E-IAA	16.58	12.68	11.73	1/4	5/16		1.3	1.4	1.4			13.4	20	0
M6ZM-H026-CAA	ASE20C4E-CAA	16.52	12.79	11.71	1/4	3/8		1.3	1.4	1.4			7.8	15	0
M6ZM-H054-CAV	ASE39C5E-CAV	16.58	12.79	11.71	1/4	3/8		1.3	1.4	1.4			7.7	15	0
M6ZP-0053-IAA	RST45C1E-IAA	17.36	13.52	11.75	3/8	1/2		1.3	1.4	1.4			14	20	0
M6ZP-0053-IAV	RST45C1E-IAV	17.36	13.55	11.75	3/8	1/2		1.3	1.4	1.4			7.2	15	0
M6ZP-H059-CAA	RST45C1E-CAA	17.36	13.5	11.75	3/8	1/2		1.3	1.4	1.4			14	20	0
M6ZP-H059-CAV	RST45C1E-CAV	17.36	13.45	11.75	3/8	1/2		1.3	1.4	1.4			7	15	0
M6ZP-H090-CFA	RST80C1E-PFA	17.31	13.81	12.29	3/8	1/2		1.3	1.4	1.4			15.4	15	0
M6ZP-H090-CFV	RST80C1E-PFV	17.31	13.81	12.29	3/8	1/2		1.3	1.4	1.4			12.2	20	0
M7GH-H057-CAA	RRT64C1E-CAA	18.86	14.34	11.79	3/8	1/2	1.5				1.5	1.5	15.5	20	0
M7GH-H057-CAV	RRT64C1E-CAV	18.86	14.34	11.79	3/8	1/2	1.5				1.5	1.5	9	15	0
M7GP-H066-CFA	RFT18C1E-PFA	18.82	14.34	12.29	3/8	1/2	1.5				1.5	1.5	13.8	20	0
M7JH-0012-IAA	ARE13C4E-IAA	14.1	11.45	11.37	1/4	5/16	1.5				1.5	1.5	5.9	15	0
M7JH-0014-IAA	ARE17C4E-IAA	14.1	11.45	11.37	1/4	5/16	1.5				1.5	1.5	5.9	15	0
M7JH-0018-IAA	ARE25C4E-IAA	14.1	11.45	11.37	1/4	5/16	1.5				1.5	1.5	6.8	15	0
M7JH-0021-IAA	ARE29C4E-IAA	14.1	11.45	11.37	1/4	5/16	1.5				1.5	1.5	5.5	15	0
M7JH-0026-IAA	ARE35C5E-IAA	14.1	11.45	11.37	1/4	5/16	1.5				1.5	1.5	9.3	15	0
M7JH-H012-IAA	ARE13C4E-IAA	14.11	11.45	11.37	1/4	3/8	1.5				1.5	1.5	5.9	15	0
M7JH-H015-IAA	ARE17C4E-IAA	14.11	11.45	11.37	1/4	3/8	1.5				1.5	1.5	5.9	15	0
M7JH-H020-IAA	ARE25C4E-IAA	14.11	11.45	11.37	1/4	3/8	1.5				1.5	1.5	6.8	15	0
M7JH-H024-IAA	ARE29C4E-IAA	14.11	11.45	11.37	1/4	3/8	1.5				1.5	1.5	5.5	15	0
M7JH-H029-IAA	ARE35C5E-IAA	14.39	11.57	11.37	1/4	3/8	1.5				1.5	1.5	9.3	15	0
M7JH-H034-IAV	ARE42C5E-IAV	14.39	11.57	11.37	1/4	3/8	1.5				1.5	1.5	5.1	15	0
M7JH-H038-IAA	ARE48C5E-IAA	14.39	11.45	11.37	1/4	3/8	1.5				1.5	1.5	10.7	15	0
M7JH-H038-IAV	ARE48C5E-IAV	14.39	11.45	11.37	1/4	3/8	1.5				1.5	1.5	6.8	15	0
M7JH-H042-IAA	ARE54C5E-IAA	14.39	11.45	11.37	1/4	3/8	1.5				1.5	1.5	6.8	15	0
M7JH-H042-IAV	ARE54C5E-IAV	14.39	11.45	11.37	1/4	3/8	1.5				1.5	1.5	6.8	15	0
M7JL-0034-IAA	AFE12C4E-IAA	14.1	11.45	11.37	1/4	5/16	1.5				1.5	1.5	8.8	15	0
M7JM-0019-IAA	AFE05C4E-IAA	14.1	11.45	11.37	1/4	5/16	1.5				1.5	1.5	5.3	15	0
M7JM-H020-IAA	AFE05C4E-IAA	14.11	11.45	11.37	1/4	3/8	1.5				1.5	1.5	5.3	15	0
M7JM-H036-IAA	AFE12C4E-IAA	14.39	11.57	11.37	1/4	3/8	1.5				1.5	1.5	8.8	15	0
M7JP-0020-IAA	AFF07C1E-IAA	14.37	12.11	11.38	1/4	5/16	1.5				1.5	1.5	5.9	15	0
M7JP-0029-IA3	AFF10C1E-IA3	14.37	12.11	11.38	1/4	5/16	1.5				1.5	1.5	5.2	15	0
M7JP-0029-IAA	AFF10C1E-IAA	14.37	12.11	11.38	1/4	5/16	1.5				1.5	1.5	4.9	15	0
M7JP-0031-IA3	AFF13C1E-IA3	14.37	12.11	11.38	1/4	5/16	1.5				1.5	1.5	5.4	15	0
M7JP-0031-IAA	AFF13C1E-IAA	14.37	12.11	11.38	1/4	5/16	1.5				1.5	1.5	11.3	15	0
M7KH-0060-CAA	RRT64C1E-CAA	24	16.39	13.08	1/4	3/8	3.3				3.2	3.2	15.8	20	0
M7KH-0060-CAV	RRT64C1E-CAV	24	16.39	13.08	1/4	3/8	3.3				3.2	3.2	9.2	15	0
M7KH-0064-CAA	RRT73C1E-CAA	24	16.39	13.08	1/4	3/8	3.3				3.2	3.2	15.8	20	0
M7KH-0064-CAV	RRT73C1E-CAV	24	16.39	13.08	1/4	3/8	3.3				3.2	3.2	11.8	15	0
M7KH-0075-CFA	RRT81C1E-PFA	24	16.39	13.08	3/8	1/2	3.3				3.2	3.2	18.3	25	0
M7KH-0075-CFV	RRT81C1E-PFV	24	16.39	13.08	3/8	1/2	3.3				3.2	3.2	9.3	15	0
M7KH-0083-CFA	RRT81C1E-PFA	24	18.45	16.16	3/8	1/2							18.7	25	0
M7KH-0083-CFV	RRT81C1E-PFV	24	18.45	16.16	3/8	1/2							9.5	15	0
M7KH-0086-CFA	RRT10K1E-PFA	24	16.39	13.08	3/8	1/2	3.3				3.2	3.2	19	30	0
M7KH-0086-CFV	RRT10K1E-PFV	24	16.39	13.08	3/8	1/2	3.3				3.2	3.2	11.2	15	0
M7KH-0096-CFA	RRT10K1E-PFA	24	18.45	16.16	3/8	1/2							19.4	30	0
M7KH-0096-CFV	RRT10K1E-PFV	24	18.45	16.16	3/8	1/2							11.4	15	0
M7ZH-0013-IAA	ARE13C4E-IAA	16.58	12.68	11.73	1/4	5/16	1.5				1.5	1.5	6.1	15	0
M7ZH-0016-IAA	ARE17C4E-IAA	16.58	12.68	11.73	1/4	5/16	1.5				1.5	1.5	6.1	15	0
M7ZH-0031-IAA	ARE35C5E-IAA	16.58	12.68	11.73	1/4	5/16	1.5				1.5	1.5	9.5	15	0
M7ZH-0037-IAV	ARE42C5E-IAV	16.58	12.68	11.73	1/4	5/16	1.5				1.5	1.5	5.1	15	0
M7ZH-0041-IAA	ARE48C5E-IAA	16.58	12.68	11.73	1/4	5/16	1.5				1.5	1.5	10.9	15	0
M7ZH-0041-IAV	ARE48C5E-IAV	16.58	12.68	11.73	1/4	5/16	1.5				1.5	1.5	6.9	15	0
M7ZH-0045-IAA	ARE54C5E-IAA	16.58	12.68	11.73	1/4	5/16	1.5				1.5	1.5	12.5	20	0
M7ZH-0045-IAV	ARE54C5E-IAV	16.58	12.68	11.73	1/4	5/16	1.5				1.5	1.5	6.9	15	0
M7ZH-0051-IAA	RRT64C1E-IAA	17.36	13.52	11.75	3/8	1/2	1.5				1.5	1.5	14.6	20	0
M7ZH-0051-IAV	RRT64C1E-IAV	17.36	13.55	11.75	3/8	1/2	1.5				1.5	1.5	8.6	15	0
M7ZH-0062-CFA	RRT81C1E-PFA	17.31	13.82	12.29	3/8	1/2	1.5				1.5	1.5	17.1	25	0
M7ZH-0062-CFV	RRT81C1E-PFV	17.31	13.81	12.29	3/8	1/2	1.5				1.5	1.5	8.7	15	0
M7ZH-0070-CFA	RRT10K1E-PFA	17.31	13.82	12.29	3/8	1/2	1.5				1.5	1.5	17.9	30	0
M7ZH-0070-CFV	RRT10K1E-PFV	17.31	13.81	12.29	3/8	1/2	1.5				1.5	1.5	10.6	15	0
M7ZH-H046-IAA	RRT62C1E-IAA	17.45	13.46	11.71	3/8	1/2	1.5				1.5	1.5	12.8	20	0
M7ZH-H046-IAV	RRT62C1E-IAV	17.45	13.46	11.71	3/8	1/2	1.5				1.5	1.5	6	15	0

Physical and Electrical Data

Copeland air-cooled condensing units

Model	Compressor Electrical	Length	Width	Height	Refrigerant Connections		Receiver Capacity (Lbs @ 90% Volume)					MCA	Max Fuse	Ship Weight	
					Liquid	Suction	134a	404A	448A	449A	450A				513A
M7ZH-H055-CAA	RRT64C1E-CAA	17.36	13.45	11.75	3/8	1/2	1.5				1.5	1.5	14.6	20	0
M7ZH-H055-CAV	RRT64C1E-CAV	17.36	13.45	11.75	3/8	1/2	1.5				1.5	1.5	8.6	15	0
M7ZH-H067-CFA	RRT81C1E-PFA	17.31	13.81	12.29	3/8	1/2	1.5				1.5	1.5	17.1	25	0
M7ZH-H067-CFV	RRT81C1E-PFV	17.31	13.81	12.29	3/8	1/2	1.5				1.5	1.5	8.7	15	0
M7ZH-H076-CFA	RRT10K1E-PFA	17.31	13.81	12.29	3/8	1/2	1.5				1.5	1.5	17.9	30	0
M7ZH-H076-CFV	RRT10K1E-PFV	17.31	13.81	12.29	3/8	1/2	1.5				1.5	1.5	10.6	15	0
M7ZM-0043-IAA	AFE13C5E-IAA	16.58	12.68	11.73	1/4	5/16	1.5				1.5	1.5	8.4	15	0
M7ZP-0021-IAA	AFE05C4E-IAA	16.58	12.68	11.73	1/4	5/16	1.5				1.5	1.5	5.5	15	0
M7ZP-0041-IAA	AFE12C4E-IAA	16.58	12.68	11.73	1/4	5/16	1.5				1.5	1.5	9	15	0
M7ZP-H062-CFA	RFT18C1E-PFA	17.32	13.82	12.29	3/8	1/2	1.5				1.5	1.5	13	20	0
MUGL-H045-IAA	AFE13C4U-IAA	17.68	14.34	11.79	1/4	5/16							9.2	15	
MUGL-H070-IAV	RFT22C1U-IAV	18.5	14.34	11.79	1/4	3/8							7	15	
MUGL-H082-CAA	RFT26C1U-CAA	18.11	14.34	11.79	1/4	3/8							12.7	15	
MUGL-H082-IAV	RFT26C1U-IAV	18.5	14.34	11.79	1/4	3/8							8.1	15	
MUGL-H086-CAA	RFT30C1U-CAA	18.1	14.34	11.79	1/4	3/8							13.7	20	
MUGL-H106-CFA	RFT37C1U-CFA	18.1	14.34	11.79	1/4	3/8							17.3	25	
MUGL-H106-CFV	RFT37C1U-CFV	18.1	14.34	11.79	1/4	3/8							11.3	15	
MUGM-H024-IAA	ASE12C4U-IAA	17.65	14.34	11.79	1/4	5/16							7.3	15	
MUGM-H028-IAA	ASE17C4U-IAA	17.65	14.34	11.79	1/4	5/16							8	15	
MUGM-H038-IAA	ASE24C4U-IAA	17.68	14.34	11.79	1/4	5/16							9.2	15	
MUGM-H049-IAA	ASE32C4U-IAA	17.68	14.34	11.79	1/4	5/16							14.2	20	
MUGP-H054-CAA	RST37C1U-CAA	18.11	14.34	11.79	1/4	3/8							13.3	20	
MUGP-H065-CAA	RST44C1U-CAA	18.1	14.34	11.79	1/4	3/8							13	20	
MUGP-H073-CAA	RST53C1U-CAA	18.1	14.34	11.79	1/4	3/8							13.8	20	
MUGP-H081-CAV	RST58C1U-CAV	18.11	14.34	11.79	1/4	3/8							8.5	15	
MUJL-0028-IAA	AFF10C1U-IAA	14.09	12.42	9.63	1/4	5/16							11.3	15	
MUJL-0036-IAA	AFE13C4U-IAA	13.98	11.67	9.64	1/4	5/16							8.2	15	
MUJL-H029-IAA	AFF10C1U-IAA	14.19	11.77	9.63	1/4	5/16							11.3	15	
MUJL-H040-IAA	AFE13C4U-IAA	14.04	9.62	11.67	1/4	5/16							8.2	15	
MUJM-0019-IAA	ASE12C4U-IAA	13.96	11.66	9.64	1/4	5/16							6.3	15	
MUJM-0022-IAA	ASE17C4U-IAA	13.96	11.66	9.64	1/4	5/16							6.9	15	
MUJM-0028-IAA	ASE24C4U-IAA	13.98	11.67	9.64	1/4	5/16							8.2	15	
MUJM-H022-IAA	ASE12C4U-IAA	14	11.67	9.63	1/4	5/16							6.3	15	
MUJM-H024-IAA	ASE17C4U-IAA	14	11.67	9.63	1/4	5/16							6.9	15	
MUJM-H032-IAA	ASE24C4U-IAA	14.04	9.62	11.67	1/4	5/16							8.2	15	
MUJM-H039-IAA	ASE32C4U-IAA	14.04	9.62	11.67	1/4	5/16							13.2	20	
MUZL-0030-IAA	AFF10C1U-IAA	16.69	13.28	11.7	1/4	5/16							11.5	15	
MUZL-0044-IAA	AFE13C4U-IAA	16.18	13.05	11.7	1/4	5/16							8.4	15	
MUZL-0066-IAV	RFT22C1U-IAV	16.99	13.42	11.7	1/4	3/8							6.6	15	
MUZL-0077-CAA	RFT26C1U-CAA	16.61	13.56	11.7	1/4	3/8							11.9	15	
MUZL-0077-IAV	RFT26C1U-IAV	16.99	13.42	11.7	1/4	3/8							7.7	15	
MUZL-0081-CAA	RFT30C1U-CAA	16.6	13.56	11.7	1/4	3/8							12.9	20	
MUZL-0098-CFA	RFT37C1U-CFA	16.6	13.56	11.7	1/4	3/8							16.5	25	
MUZL-0098-CFV	RFT37C1U-CFV	16.6	13.56	11.7	1/4	3/8							10.9	15	
MUZL-H030-IAA	AFF10C1U-IAA	16.69	13.19	11.7	1/4	5/16							11.5	15	
MUZL-H044-IAA	AFE13C4U-IAA	16.18	13.05	11.7	1/4	5/16							8.4	15	
MUZL-H067-IAV	RFT22C1U-IAV	16.92	13.3	11.7	1/4	3/8							6.6	15	
MUZL-H078-CAA	RFT26C1U-CAA	16.61	13.56	11.7	1/4	3/8							11.9	15	
MUZL-H078-IAV	RFT26C1U-IAV	16.92	13.3	11.7	1/4	3/8							7.7	15	
MUZL-H082-CAA	RFT30C1U-CAA	16.6	13.56	11.7	1/4	3/8							12.9	20	
MUZL-H100-CFA	RFT37C1U-CFA	16.6	13.56	11.7	1/4	3/8							16.5	25	
MUZL-H100-CFV	RFT37C1U-CFV	16.6	13.56	11.7	1/4	3/8							10.9	15	
MUZM-0023-IAA	ASE12C4U-IAA	16.15	13.05	11.7	1/4	5/16							6.5	15	
MUZM-0026-IAA	ASE17C4U-IAA	16.15	13.05	11.7	1/4	5/16							7.1	15	
MUZM-0036-IAA	ASE24C4U-IAA	16.18	13.05	11.7	1/4	5/16							8.4	15	
MUZM-0046-IAA	ASE32C4U-IAA	16.18	13.05	11.7	1/4	5/16							13.4	20	
MUZM-H024-IAA	ASE12C4U-IAA	16.15	13.05	11.7	1/4	5/16							6.5	15	
MUZM-H027-IAA	ASE17C4U-IAA	16.15	13.05	11.7	1/4	5/16							7.1	15	
MUZM-H036-IAA	ASE24C4U-IAA	16.18	13.05	11.7	1/4	5/16							8.4	15	
MUZM-H047-IAA	ASE32C4U-IAA	16.18	13.05	11.7	1/4	5/16							13.4	20	
MUZP-0050-CAA	RST37C1U-CAA	16.61	13.56	11.7	1/4	3/8							12.5	20	
MUZP-0059-CAA	RST44C1U-CAA	16.6	13.56	11.7	1/4	3/8							12.1	20	
MUZP-0066-CAA	RST53C1U-CAA	16.6	13.56	11.7	1/4	3/8							13	20	
MUZP-0072-CAV	RST58C1U-CAV	16.61	13.56	11.7	1/4	3/8							8.1	15	
MUZP-H051-CAA	RST37C1U-CAA	16.61	13.56	11.7	1/4	3/8							12.5	20	
MUZP-H061-CAA	RST44C1U-CAA	16.6	13.56	11.7	1/4	3/8							12.1	20	
MUZP-H068-CAA	RST53C1U-CAA	16.6	13.56	11.7	1/4	3/8							13	20	
MUZP-H074-CAV	RST58C1U-CAV	16.61	13.56	11.7	1/4	3/8							8.1	15	

R-134a LT/MT/EMT

Copeland air-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0	5	10	15	20	25	30
90° Ambient													
M7JM-0019-IAA	AFE05C4E-IAA	441	531	629	734	848	972	1110	1250	1410	1580		
M7JM-H020-IAA	AFE05C4E-IAA	462	558	662	775	897	1030	1170	1330	1500	1680		
M7ZP-0021-IAA	AFE05C4E-IAA	468	567	673	789	913	1050	1200	1360	1530	1720		
M7JP-0020-IAA	AFF07C1E-IAA	524	614	714	825	946	1080	1220	1380	1540	1720	1910	
M7JP-0029-IA3	AFF10C1E-IA3	783	919	1070	1230	1410	1600	1810	2020	2260	2500	2750	
M7JP-0029-IAA	AFF10C1E-IAA	783	919	1070	1230	1410	1600	1810	2020	2260	2500	2750	
M7JP-0031-IA3	AFF13C1E-IA3	898	1050	1220	1400	1600	1810	2040	2280	2530	2790	3070	
M7JP-0031-IAA	AFF13C1E-IAA	898	1050	1220	1400	1600	1810	2040	2280	2530	2790	3070	
M7JL-0034-IAA	AFE12C4E-IAA	936	1080	1250	1440	1640	1860	2080	2310	2540	2760		
M7JM-H036-IAA	AFE12C4E-IAA	995	1160	1350	1560	1800	2050	2320	2610	2910	3210		
M7ZP-0041-IAA	AFE12C4E-IAA	1020	1190	1380	1600	1850	2120	2400	2710	3030	3360		
M7ZM-0043-IAA	AFE13C5E-IAA	1030	1210	1420	1650	1910	2180	2480	2790	3120	3460		
M7ZP-H062-CFA	RFT18C1E-PFA	1460	1820	2180	2550	2930	3310	3710	4110	4510	4930	5350	5780
M7GP-H066-CFA	RFT18C1E-PFA	1520	1890	2270	2650	3060	3470	3890	4330	4780	5240	5710	6200
100° Ambient													
M7JM-0019-IAA	AFE05C4E-IAA	392	474	563	661	768	885	1010	1150	1300	1470		
M7JM-H020-IAA	AFE05C4E-IAA	412	500	597	702	817	944	1080	1230	1400	1580		
M7ZP-0021-IAA	AFE05C4E-IAA	419	510	608	716	835	964	1110	1260	1430	1610		
M7JP-0020-IAA	AFF07C1E-IAA	473	557	651	754	867	990	1120	1270	1420	1590	1760	
M7JP-0029-IA3	AFF10C1E-IA3	700	827	966	1120	1280	1460	1650	1850	2070	2290	2530	
M7JP-0029-IAA	AFF10C1E-IAA	700	827	966	1120	1280	1460	1650	1850	2070	2290	2530	
M7JP-0031-IA3	AFF13C1E-IA3	802	946	1100	1270	1460	1650	1860	2080	2310	2560		
M7JP-0031-IAA	AFF13C1E-IAA	802	946	1100	1270	1460	1650	1860	2080	2310	2560		
M7JL-0034-IAA	AFE12C4E-IAA	863	996	1150	1320	1500	1690	1890	2090	2290			
M7JM-H036-IAA	AFE12C4E-IAA	914	1070	1240	1440	1660	1890	2140	2400	2670	2950		
M7ZP-0041-IAA	AFE12C4E-IAA	934	1090	1270	1480	1710	1960	2230	2510	2810	3120		
M7ZM-0043-IAA	AFE13C5E-IAA	944	1110	1310	1520	1760	2020	2290	2580	2880	3200		
M7ZP-H062-CFA	RFT18C1E-PFA	1230	1580	1930	2280	2650	3020	3390	3770	4160	4560	4960	5370
M7GP-H066-CFA	RFT18C1E-PFA	1300	1660	2020	2400	2780	3180	3580	3990	4410	4850	5290	5750
110° Ambient													
M7JM-0019-IAA	AFE05C4E-IAA	341	414	495	584	683	792	913	1040	1190	1350		
M7JM-H020-IAA	AFE05C4E-IAA	356	436	524	621	730	850	982	1130	1290	1460		
M7ZP-0021-IAA	AFE05C4E-IAA	367	449	539	640	751	874	1010	1160	1320	1500		
M7JP-0020-IAA	AFF07C1E-IAA	424	502	589	684	789	903	1030	1160	1300	1460	1620	
M7JP-0029-IA3	AFF10C1E-IA3		736	864	1000	1150	1320	1490	1680				
M7JP-0029-IAA	AFF10C1E-IAA		736	864	1000	1150	1320	1490	1680				
M7JP-0031-IA3	AFF13C1E-IA3		840	983	1140	1310	1490	1680					
M7JP-0031-IAA	AFF13C1E-IAA		840	983	1140	1310	1490	1680					
M7JL-0034-IAA	AFE12C4E-IAA			1040	1190	1350	1510						
M7JM-H036-IAA	AFE12C4E-IAA		973	1130	1310	1510	1720	1950	2180	2430	2670		
M7ZP-0041-IAA	AFE12C4E-IAA	858	999	1160	1350	1560	1790	2040	2290	2570	2850		
M7ZM-0043-IAA	AFE13C5E-IAA	854	1010	1190	1390	1620	1850	2110	2370	2650	2940		
M7ZP-H062-CFA	RFT18C1E-PFA			1650	2000	2360	2720	3090	3460	3840	4220		
M7GP-H066-CFA	RFT18C1E-PFA			1740	2110	2490	2870	3260	3660	4060	4470	4900	5330

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

Model	Compressor	-10	-5	0	5	10	15	20	25	30	35	40	45
90° Ambient													
M7JH-0012-IAA	ARE13C4E-IAA			604	695	794	902	1020	1150	1280	1430	1590	1750
M7JH-H012-IAA	ARE13C4E-IAA			630	727	832	948	1070	1210	1360	1520	1700	1890
M7ZH-0013-IAA	ARE13C4E-IAA			639	737	845	963	1090	1230	1390	1560	1740	1930
M7JH-0014-IAA	ARE17C4E-IAA			748	855	970	1100	1230	1380	1530	1700	1870	2060
M7JH-H015-IAA	ARE17C4E-IAA			781	895	1020	1150	1300	1460	1630	1820	2010	2230
M7ZH-0016-IAA	ARE17C4E-IAA			792	908	1040	1170	1320	1490	1670	1860	2060	2280
M7JH-0018-IAA	ARE25C4E-IAA			1020	1160	1310	1470	1640	1820	2020	2230	2450	2690
M7JH-H020-IAA	ARE25C4E-IAA			1070	1230	1390	1570	1760	1970	2190	2430	2680	2960
M7JH-0021-IAA	ARE29C4E-IAA			1230	1370	1520	1700	1890	2090	2300	2520	2740	2970
M7JH-H024-IAA	ARE29C4E-IAA			1300	1450	1630	1830	2050	2290	2540	2810	3090	3390
M7JH-0026-IAA	ARE35C5E-IAA			1350	1530	1730	1940	2170	2410	2660	2920	3190	3480
M7JH-H029-IAA	ARE35C5E-IAA			1450	1640	1860	2100	2360	2640	2930	3240	3570	3920
M7ZH-0031-IAA	ARE35C5E-IAA			1480	1680	1910	2160	2430	2720	3030	3360	3710	4080
M7JH-H038-IAA	ARE48C5E-IAA			1930	2200	2490	2800	3120	3450	3800	4170	4540	4930
M7JH-H038-IAV	ARE48C5E-IAV			1930	2200	2490	2800	3120	3450	3800	4170	4540	4930
M7ZH-0041-IAA	ARE48C5E-IAA			1980	2260	2570	2890	3240	3600	3980	4380	4800	5230
M7ZH-0041-IAV	ARE48C5E-IAV			1980	2260	2570	2890	3240	3600	3980	4380	4800	5230
M7JH-H042-IAA	ARE54C5E-IAA			2140	2450	2770	3110	3460	3830	4210	4590	4980	5380
M7JH-H042-IAV	ARE54C5E-IAV			2140	2450	2770	3110	3460	3830	4210	4590	4980	5380
M7ZH-0045-IAA	ARE54C5E-IAA			2210	2530	2870	3230	3610	4010	4420	4860	5300	5760
M7ZH-0045-IAV	ARE54C5E-IAV			2210	2530	2870	3230	3610	4010	4420	4860	5300	5760
M7ZH-H046-IAA	RRT62C1E-IAA		2100	2380	2690	3030	3400	3790	4210	4640	5090	5550	6020
M7ZH-H046-IAV	RRT62C1E-IAV		2100	2380	2690	3030	3400	3790	4210	4640	5090	5550	6020
M7ZH-0051-IAV	RRT64C1E-IAV		2380	2690	3040	3410	3810	4240	4680	5150	5630	6130	6640
M7ZH-0051-IAA	RRT64C1E-IAA		2460	2790	3150	3540	3960	4400	4860	5320	5790	6250	6710
M7ZH-H055-CAA	RRT64C1E-CAA		2480	2810	3180	3570	4000	4450	4930	5430	5950	6490	7050
M7ZH-H055-CAV	RRT64C1E-CAV		2480	2810	3180	3570	4000	4450	4930	5430	5950	6490	7050
M7GH-H057-CAA	RRT64C1E-CAA	2190	2490	2830	3210	3620	4070	4550	5060	5600			
M7GH-H057-CAV	RRT64C1E-CAV	2190	2490	2830	3210	3620	4070	4550	5060	5600			
M7KH-0060-CAA	RRT64C1E-CAA	2300	2620	2970	3360	3790	4260	4760	5290	5860	6440	7060	7690
M7KH-0060-CAV	RRT64C1E-CAV	2300	2620	2970	3360	3790	4260	4760	5290	5860	6440	7060	7690
M7ZH-0062-CFA	RRT81C1E-PFA			3150	3570	4080	4640	5240	5870	6520	7180	7840	
M7ZH-0062-CFV	RRT81C1E-PFV			3150	3570	4080	4640	5240	5870	6520	7180	7840	
M7KH-0064-CAA	RRT73C1E-CAA	2420	2850	3290	3760	4250	4770	5310	5890	6490	7130	7800	8490
M7KH-0064-CAV	RRT73C1E-CAV	2420	2850	3290	3760	4250	4770	5310	5890	6490	7130	7800	8490
M7ZH-H067-CFA	RRT81C1E-PFA		2890	3240	3690	4210	4800	5420	6070	6730	7400	8070	8720
M7ZH-H067-CFV	RRT81C1E-PFV		2890	3240	3690	4210	4800	5420	6070	6730	7400	8070	8720
M7KH-0075-CFA	RRT81C1E-PFA		3060	3480	4000	4600	5270	5980	6720	7470	8230	8980	9700
M7KH-0075-CFV	RRT81C1E-PFV		3060	3480	4000	4600	5270	5980	6720	7470	8230	8980	9700
M7ZH-0070-CFA	RRT10K1E-PFA				4550	5080	5600	6130	6650	7180	7700		
M7ZH-0070-CFV	RRT10K1E-PFV				4550	5080	5600	6130	6650	7180	7700		
M7ZH-H076-CFA	RRT10K1E-PFA			4130	4680	5220	5770	6310	6860	7410	7960		
M7ZH-H076-CFV	RRT10K1E-PFV			4130	4680	5220	5770	6310	6860	7410	7960		
M7KH-0083-CFA	RRT81C1E-PFA	2850	3190	3680	4290	5000	5780	6600	7440	8300			
M7KH-0083-CFV	RRT81C1E-PFV	2850	3190	3680	4290	5000	5780	6600	7440	8300			
M7KH-0086-CFA	RRT10K1E-PFA		3840	4430	5040	5660	6290	6940	7610	8300	9010	9750	10500
M7KH-0086-CFV	RRT10K1E-PFV		3840	4430	5040	5660	6290	6940	7610	8300	9010	9750	10500
M7KH-0096-CFA	RRT10K1E-PFA	3390	4040	4700	5380	6090	6830	7610	8440	9330			
M7KH-0096-CFV	RRT10K1E-PFV	3390	4040	4700	5380	6090	6830	7610	8440	9330			

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

Model	Compressor	-10	-5	0	5	10	15	20	25	30	35	40	45
100° Ambient													
M7JH-0012-IAA	ARE13C4E-IAA			553	638	730	830	938	1050	1180	1320	1460	1620
M7JH-H012-IAA	ARE13C4E-IAA			578	669	767	876	994	1120	1260	1410	1580	1750
M7ZH-0013-IAA	ARE13C4E-IAA			587	680	781	892	1010	1150	1290	1450	1620	1800
M7JH-0014-IAA	ARE17C4E-IAA			690	789	897	1010	1140	1270	1420	1570	1740	1910
M7JH-H015-IAA	ARE17C4E-IAA			723	830	946	1070	1210	1360	1520	1700	1880	2080
M7ZH-0016-IAA	ARE17C4E-IAA			735	844	963	1090	1240	1390	1560	1740	1930	2140
M7JH-0018-IAA	ARE25C4E-IAA			942	1070	1200	1350	1510	1680	1860	2050	2260	2470
M7JH-H020-IAA	ARE25C4E-IAA			996	1140	1290	1450	1640	1830	2040	2270	2510	2770
M7JH-0021-IAA	ARE29C4E-IAA			1140	1270	1410	1560	1730	1910	2100	2300	2500	
M7JH-H024-IAA	ARE29C4E-IAA			1210	1350	1510	1700	1900	2120	2350	2600	2860	3130
M7JH-0026-IAA	ARE35C5E-IAA				1420	1600	1800	2010	2240	2470			
M7JH-H029-IAA	ARE35C5E-IAA			1340	1530	1740	1960	2200	2470	2740	3040	3350	3680
M7ZH-0031-IAA	ARE35C5E-IAA			1370	1570	1780	2020	2270	2550	2840	3160	3490	3840
M7JH-H038-IAA	ARE48C5E-IAA			1810	2070	2330	2620	2910	3220	3540	3870	4210	
M7JH-H038-IAV	ARE48C5E-IAV			1810	2070	2330	2620	2910	3220	3540	3870	4210	
M7ZH-0041-IAA	ARE48C5E-IAA			1850	2120	2410	2710	3030	3360	3720	4090	4480	4880
M7ZH-0041-IAV	ARE48C5E-IAV			1850	2120	2410	2710	3030	3360	3720	4090	4480	4880
M7JH-H042-IAA	ARE54C5E-IAA			1990	2280	2590	2900	3230	3570	3910	4260		
M7JH-H042-IAV	ARE54C5E-IAV			1990	2280	2590	2900	3230	3570	3910	4260		
M7ZH-0045-IAA	ARE54C5E-IAA			2050	2360	2690	3030	3380	3750	4140	4530	4950	5370
M7ZH-0045-IAV	ARE54C5E-IAV			2050	2360	2690	3030	3380	3750	4140	4530	4950	5370
M7ZH-H046-IAA	RRT62C1E-IAA			2190	2470	2790	3130	3490	3880	4290	4700	5130	5570
M7ZH-H046-IAV	RRT62C1E-IAV			2190	2470	2790	3130	3490	3880	4290	4700	5130	5570
M7ZH-0051-IAV	RRT64C1E-IAV				2790	3130	3510	3900	4320	4760	5210	5680	
M7ZH-0051-IAA	RRT64C1E-IAA				2890	3260	3650	4050	4460	4880	5290	5700	
M7ZH-H055-CAA	RRT64C1E-CAA			2540	2890	3260	3670	4110	4570	5050	5550	6070	6610
M7ZH-H055-CAV	RRT64C1E-CAV			2540	2890	3260	3670	4110	4570	5050	5550	6070	6610
M7GH-H057-CAA	RRT64C1E-CAA			2530	2890	3280	3700	4160	4640	5140			
M7GH-H057-CAV	RRT64C1E-CAV			2530	2890	3280	3700	4160	4640	5140			
M7KH-0060-CAA	RRT64C1E-CAA			2680	3050	3460	3900	4380	4890	5420	5980	6560	7170
M7KH-0060-CAV	RRT64C1E-CAV			2680	3050	3460	3900	4380	4890	5420	5980	6560	7170
M7ZH-0062-CFA	RRT81C1E-PFA				3170	3620	4140	4710	5320	5950			
M7ZH-0062-CFV	RRT81C1E-PFV				3170	3620	4140	4710	5320	5950			
M7ZH-H067-CFA	RRT81C1E-PFA				3260	3740	4280	4870	5500	6150	6800		
M7ZH-H067-CFV	RRT81C1E-PFV				3260	3740	4280	4870	5500	6150	6800		
M7KH-0064-CAA	RRT73C1E-CAA			2970	3410	3890	4380	4900	5440	6010	6610	7230	7880
M7KH-0064-CAV	RRT73C1E-CAV			2970	3410	3890	4380	4900	5440	6010	6610	7230	7880
M7KH-0075-CFA	RRT81C1E-PFA			3080	3530	4090	4710	5390	6110	6850	7590	8340	9060
M7KH-0075-CFV	RRT81C1E-PFV			3080	3530	4090	4710	5390	6110	6850	7590	8340	9060
M7ZH-0070-CFA	RRT10K1E-PFA						5130	5610					
M7ZH-0070-CFV	RRT10K1E-PFV						5130	5610					
M7ZH-H076-CFA	RRT10K1E-PFA					4780	5280	5790	6290				
M7ZH-H076-CFV	RRT10K1E-PFV					4780	5280	5790	6290				
M7KH-0083-CFA	RRT81C1E-PFA		2800	3210	3760	4410	5150	5950	6780	7630			
M7KH-0083-CFV	RRT81C1E-PFV		2800	3210	3760	4410	5150	5950	6780	7630			
M7KH-0086-CFA	RRT10K1E-PFA				4620	5200	5790	6390	7010	7640	8300	8970	9670
M7KH-0086-CFV	RRT10K1E-PFV				4620	5200	5790	6390	7010	7640	8300	8970	9670
M7KH-0096-CFA	RRT10K1E-PFA		3640	4270	4920	5590	6280	7010	7770	8580			
M7KH-0096-CFV	RRT10K1E-PFV		3640	4270	4920	5590	6280	7010	7770	8580			

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

R-134a High Temp

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30	35	40	45
110° Ambient													
M7JH-0012-IAA	ARE13C4E-IAA				581	664	755	853	959	1070	1200	1330	1470
M7JH-H012-IAA	ARE13C4E-IAA			524	608	699	798	907	1030	1160	1300	1450	1610
M7ZH-0013-IAA	ARE13C4E-IAA			535	621	715	817	930	1050	1190	1330	1490	1660
M7JH-0014-IAA	ARE17C4E-IAA					821	928	1040	1170	1300	1450	1600	1760
M7JH-H015-IAA	ARE17C4E-IAA			660	760	868	987	1120	1260	1410	1570	1750	1930
M7ZH-0016-IAA	ARE17C4E-IAA			674	777	888	1010	1140	1290	1440	1610	1800	1990
M7JH-0018-IAA	ARE25C4E-IAA						1220	1360	1510	1680	1850		
M7JH-H020-IAA	ARE25C4E-IAA			911	1040	1180	1330	1500	1680	1880	2090	2320	2570
M7JH-0021-IAA	ARE29C4E-IAA								1740				
M7JH-H024-IAA	ARE29C4E-IAA				1250	1400	1560	1740	1940	2160	2380	2620	2860
M7JH-H029-IAA	ARE35C5E-IAA					1610	1820	2050	2300	2560	2840	3130	
M7ZH-0031-IAA	ARE35C5E-IAA			1270	1450	1650	1880	2120	2380	2650	2950	3260	3600
M7JH-H038-IAA	ARE48C5E-IAA							2700	2980				
M7JH-H038-IAV	ARE48C5E-IAV							2700	2980				
M7ZH-0041-IAA	ARE48C5E-IAA				2250	2530	2820	3120	3450	3780	4140		
M7ZH-0041-IAV	ARE48C5E-IAV				2250	2530	2820	3120	3450	3780	4140		
M7ZH-0045-IAA	ARE54C5E-IAA					2810	3140	3480	3830				
M7ZH-0045-IAV	ARE54C5E-IAV					2810	3140	3480	3830				
M7ZH-H046-IAA	RRT62C1E-IAA				2560	2870	3210	3570	3940	4330			
M7ZH-H046-IAV	RRT62C1E-IAV				2560	2870	3210	3570	3940	4330			
M7ZH-0051-IAV	RRT64C1E-IAV				2860	3210	3580	3970					
M7ZH-0051-IAA	RRT64C1E-IAA				2950	3300	3670	4040					
M7GH-H057-CAA	RRT64C1E-CAA			2590	2970	3370	3800	4260	4740				
M7GH-H057-CAV	RRT64C1E-CAV			2590	2970	3370	3800	4260	4740				
M7ZH-H055-CAA	RRT64C1E-CAA				3000	3400	3820	4260	4730				
M7ZH-H055-CAV	RRT64C1E-CAV				3000	3400	3820	4260	4730				
M7KH-0060-CAA	RRT64C1E-CAA			2770	3160	3580	4030	4520	5020	5560	6120	6700	
M7KH-0060-CAV	RRT64C1E-CAV			2770	3160	3580	4030	4520	5020	5560	6120	6700	
M7ZH-0062-CFA	RRT81C1E-PFA						3690	4230					
M7ZH-0062-CFV	RRT81C1E-PFV						3690	4230					
M7ZH-H067-CFA	RRT81C1E-PFA				3310	3810	4360	4960					
M7ZH-H067-CFV	RRT81C1E-PFV				3310	3810	4360	4960					
M7KH-0064-CAA	RRT73C1E-CAA			3110	3550	4010	4490	5000	5530	6080	6660	7260	
M7KH-0064-CAV	RRT73C1E-CAV			3110	3550	4010	4490	5000	5530	6080	6660	7260	
M7KH-0075-CFA	RRT81C1E-PFA			3110	3600	4170	4810	5500	6210	6950	7680		
M7KH-0075-CFV	RRT81C1E-PFV			3110	3600	4170	4810	5500	6210	6950	7680		
M7KH-0083-CFA	RRT81C1E-PFA			2790	3250	3830	4510	5270	6070	6910			
M7KH-0083-CFV	RRT81C1E-PFV			2790	3250	3830	4510	5270	6070	6910			
M7KH-0086-CFA	RRT10K1E-PFA					4740	5280	5840	6410	6990			
M7KH-0086-CFV	RRT10K1E-PFV					4740	5280	5840	6410	6990			
M7KH-0096-CFA	RRT10K1E-PFA			4450	5070	5720	6390	7080	7820				
M7KH-0096-CFV	RRT10K1E-PFV			4450	5070	5720	6390	7080	7820				

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

R-290 Low Temp

Copeland air-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25
90° Ambient													
MUJL-0028-IAA	AFF10C1U-IAA		912	1020	1150	1280	1430	1590	1750	1930	2120	2310	2520
MUJL-H029-IAA	AFF10C1U-IAA		961	1080	1220	1370	1540	1720	1910	2120	2340	2580	2830
MUZL-0030-IAA	AFF10C1U-IAA		978	1110	1250	1410	1580	1770	1970	2190	2430	2680	2950
MUZL-H030-IAA	AFF10C1U-IAA		987	1120	1260	1420	1600	1790	2000	2230	2470	2730	3000
MUJL-0036-IAA	AFF13C4U-IAA	978	1110	1250	1400	1550	1720	1900					
MUJL-H040-IAA	AFF13C4U-IAA	1040	1180	1340	1510	1690	1880	2090					
MUZL-0044-IAA	AFF13C4U-IAA	1060	1210	1370	1540	1730	1940	2160	2390	2650			
MUZL-H044-IAA	AFF13C4U-IAA	1070	1220	1380	1560	1760	1970	2190	2430	2690			
MUGL-H045-IAA	AFF13C4U-IAA	1090	1240	1410	1590	1790	2010	2250	2500	2780			
MUZL-0066-IAV	RFT22C1U-IAV	1500	1730	1980	2250	2530	2840	3170	3520	3880			
MUZL-H067-IAV	RFT22C1U-IAV	1520	1760	2010	2290	2580	2900	3240	3600	3980			
MUGL-H070-IAV	RFT22C1U-IAV	1560	1810	2080	2370	2690	3030	3400	3800	4220			
MUZL-0077-CAA	RFT26C1U-CAA	1910	2170	2440	2740	3060	3410	3770					
MUZL-0077-IAV	RFT26C1U-IAV	1910	2170	2440	2740	3060	3410	3770	4160	4570			
MUZL-H078-CAA	RFT26C1U-CAA	1950	2200	2490	2800	3130	3490	3870	4270	4690			
MUZL-H078-IAV	RFT26C1U-IAV	1950	2200	2490	2800	3130	3490	3870	4270	4690			
MUZL-0081-CAA	RFT30C1U-CAA	2030	2290	2580	2900	3230	3580	3960					
MUGL-H082-CAA	RFT26C1U-CAA	2000	2280	2580	2910	3270	3660	4070	4520	5000			
MUGL-H082-IAV	RFT26C1U-IAV	2000	2280	2580	2910	3270	3660	4070	4520	5000			
MUZL-H082-CAA	RFT30C1U-CAA	2060	2330	2630	2950	3300	3670	4060	4470	4890			
MUGL-H086-CAA	RFT30C1U-CAA	2120	2410	2730	3070	3450	3850	4290	4750	5250			
MUZL-0098-CFA	RFT37C1U-CFA	2480	2790	3140	3510	3900	4310	4730	5150	5590			
MUZL-0098-CFV	RFT37C1U-CFV	2480	2790	3140	3510	3900	4310	4730	5150	5590			
MUZL-H100-CFA	RFT37C1U-CFA	2530	2850	3210	3600	4000	4430	4870	5310	5770			
MUZL-H100-CFV	RFT37C1U-CFV	2530	2850	3210	3600	4000	4430	4870	5310	5770			
MUGL-H106-CFA	RFT37C1U-CFA	2620	2980	3370	3800	4250	4730	5230	5750	6290			
MUGL-H106-CFV	RFT37C1U-CFV	2620	2980	3370	3800	4250	4730	5230	5750	6290			
100° Ambient													
MUJL-0028-IAA	AFF10C1U-IAA		839	941	1050	1170	1310	1450	1600	1760	1930	2110	2300
MUJL-H029-IAA	AFF10C1U-IAA		886	998	1120	1260	1410	1580	1760	1950	2150	2370	2590
MUZL-0030-IAA	AFF10C1U-IAA		903	1020	1150	1290	1450	1620	1810	2010	2230	2460	2710
MUZL-H030-IAA	AFF10C1U-IAA		911	1030	1160	1310	1470	1650	1840	2050	2270	2510	2760
MUJL-0036-IAA	AFF13C4U-IAA	892	1010	1140	1280	1420	1570	1730					
MUJL-H040-IAA	AFF13C4U-IAA	951	1080	1230	1380	1550	1730	1920					
MUZL-0044-IAA	AFF13C4U-IAA	972	1110	1260	1420	1600	1790	1990	2200	2430			
MUZL-H044-IAA	AFF13C4U-IAA	983	1120	1270	1440	1620	1810	2020	2240	2480			
MUGL-H045-IAA	AFF13C4U-IAA	998	1140	1300	1470	1660	1860	2080	2310	2570			
MUZL-0066-IAV	RFT22C1U-IAV	1360	1570	1800	2040	2300	2580	2880	3200	3540			
MUZL-H067-IAV	RFT22C1U-IAV	1380	1600	1830	2080	2350	2640	2950	3280	3630			
MUGL-H070-IAV	RFT22C1U-IAV	1420	1640	1890	2160	2450	2760	3100	3470	3860			
MUZL-0077-CAA	RFT26C1U-CAA	1740	1970	2220	2500	2790	3100	3440					
MUZL-0077-IAV	RFT26C1U-IAV	1740	1970	2220	2500	2790	3100	3440	3790	4160			
MUZL-H078-CAA	RFT26C1U-CAA	1770	2010	2270	2550	2860	3180	3530	3900	4280			
MUZL-H078-IAV	RFT26C1U-IAV	1770	2010	2270	2550	2860	3180	3530	3900	4280			
MUZL-0081-CAA	RFT30C1U-CAA	1850	2100	2370	2650	2950	3270	3600					
MUGL-H082-CAA	RFT26C1U-CAA	1820	2080	2360	2660	2990	3350	3740	4150	4590			
MUGL-H082-IAV	RFT26C1U-IAV	1820	2080	2360	2660	2990	3350	3740	4150	4590			
MUZL-H082-CAA	RFT30C1U-CAA	1880	2140	2410	2710	3020	3350	3700	4070	4450			
MUGL-H086-CAA	RFT30C1U-CAA	1950	2210	2510	2830	3170	3540	3940	4360	4800			
MUZL-0098-CFA	RFT37C1U-CFA	2260	2540	2850	3190	3540	3920	4300	4690	5080			
MUZL-0098-CFV	RFT37C1U-CFV	2260	2540	2850	3190	3540	3920	4300	4690	5080			
MUZL-H100-CFA	RFT37C1U-CFA	2300	2600	2920	3270	3640	4030	4430	4840	5250			
MUZL-H100-CFV	RFT37C1U-CFV	2300	2600	2920	3270	3640	4030	4430	4840	5250			
MUGL-H106-CFA	RFT37C1U-CFA	2400	2720	3080	3470	3880	4320	4780	5260	5760			
MUGL-H106-CFV	RFT37C1U-CFV	2400	2720	3080	3470	3880	4320	4780	5260	5760			

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

R-290 Low Temp

Copeland air-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25
110° Ambient													
MUJL-0028-IAA	AFF10C1U-IAA			853	953	1060	1180	1310	1450	1590	1750		
MUJL-H029-IAA	AFF10C1U-IAA		807	909	1020	1150	1290	1440	1600	1780	1960	2160	2370
MUZL-0030-IAA	AFF10C1U-IAA		828	934	1050	1180	1330	1480	1660	1840	2040	2250	2480
MUZL-H030-IAA	AFF10C1U-IAA		836	942	1060	1200	1340	1500	1680	1870	2070	2290	2520
MUJL-0036-IAA	AFF13C4U-IAA			1030	1160	1280	1420	1560					
MUJL-H040-IAA	AFF13C4U-IAA	860	983	1120	1260	1410	1570	1750					
MUZL-0044-IAA	AFF13C4U-IAA	885	1010	1150	1300	1460	1630	1810	2010	2220			
MUZL-H044-IAA	AFF13C4U-IAA	894	1020	1160	1320	1480	1660	1840	2050	2260			
MUGL-H045-IAA	AFF13C4U-IAA	909	1040	1190	1350	1520	1700	1900	2120	2350			
MUZL-0066-IAV	RFT22C1U-IAV		1410	1620	1840	2070	2330	2600	2890	3200			
MUZL-H067-IAV	RFT22C1U-IAV	1250	1440	1650	1880	2120	2380	2670	2970	3290			
MUGL-H070-IAV	RFT22C1U-IAV	1280	1480	1710	1950	2210	2500	2810	3140	3500			
MUZL-0077-CAA	RFT26C1U-CAA		1770	2000	2240	2510	2790	3090					
MUZL-0077-IAV	RFT26C1U-IAV		1770	2000	2240	2510	2790	3090	3400	3730			
MUZL-H078-CAA	RFT26C1U-CAA		1800	2040	2300	2570	2870	3180	3510	3860			
MUZL-H078-IAV	RFT26C1U-IAV		1800	2040	2300	2570	2870	3180	3510	3860			
MUZL-0081-CAA	RFT30C1U-CAA		1890	2140	2390	2660	2940	3230					
MUGL-H082-CAA	RFT26C1U-CAA	1640	1870	2130	2410	2710	3040	3390	3760	4170			
MUGL-H082-IAV	RFT26C1U-IAV	1640	1870	2130	2410	2710	3040	3390	3760	4170			
MUZL-H082-CAA	RFT30C1U-CAA		1930	2180	2450	2730	3020	3330	3650	3990			
MUGL-H086-CAA	RFT30C1U-CAA	1760	2010	2280	2570	2880	3210	3570	3940	4340			
MUZL-0098-CFA	RFT37C1U-CFA			2560	2870	3190	3520	3870					
MUZL-0098-CFV	RFT37C1U-CFV			2560	2870	3190	3520	3870					
MUZL-H100-CFA	RFT37C1U-CFA		2340	2630	2950	3280	3630	3990					
MUZL-H100-CFV	RFT37C1U-CFV		2340	2630	2950	3280	3630	3990					
MUGL-H106-CFA	RFT37C1U-CFA		2460	2780	3130	3510	3910	4330	4770	5220			
MUGL-H106-CFV	RFT37C1U-CFV		2460	2780	3130	3510	3910	4330	4770	5220			

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

R-290 Medium Temp

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30
90° Ambient										
MUJM-0019-IAA	ASE12C4U-IAA	861	969	1090	1220	1360	1500	1660	1820	
MUJM-H022-IAA	ASE12C4U-IAA	922	1040	1160	1310	1460	1630	1800	1990	
MUJM-0022-IAA	ASE17C4U-IAA	1040	1150	1270	1400	1550	1710	1870	2040	
MUZM-0023-IAA	ASE12C4U-IAA	943	1060	1190	1340	1500	1670	1860	2050	2260
MUZM-H024-IAA	ASE12C4U-IAA	955	1070	1210	1350	1520	1690	1880	2080	2300
MUGM-H024-IAA	ASE12C4U-IAA	972	1090	1230	1380	1550	1730	1920	2130	2360
MUJM-H024-IAA	ASE17C4U-IAA	1100	1220	1360	1510	1680	1860	2050	2250	
MUZM-0026-IAA	ASE17C4U-IAA	1120	1240	1390	1550	1720	1910	2110	2330	2550
MUZM-H027-IAA	ASE17C4U-IAA	1130	1260	1400	1570	1740	1940	2140	2360	2590
MUGM-H028-IAA	ASE17C4U-IAA	1150	1280	1430	1600	1780	1980	2200	2420	2670
MUJM-0028-IAA	ASE24C4U-IAA	1330	1500	1680	1870	2050	2250	2440	2650	
MUJM-H032-IAA	ASE24C4U-IAA	1430	1630	1830	2050	2270	2510	2750	3010	
MUZM-0036-IAA	ASE24C4U-IAA	1460	1670	1890	2110	2350	2600	2860	3140	3430
MUZM-H036-IAA	ASE24C4U-IAA	1480	1690	1910	2140	2390	2640	2910	3200	3500
MUGM-H038-IAA	ASE24C4U-IAA	1510	1720	1950	2200	2450	2720	3010	3310	3630
MUJM-H039-IAA	ASE32C4U-IAA	1970	2170	2390	2640	2910	3200	3500	3800	
MUZM-0046-IAA	ASE32C4U-IAA	2060	2260	2500	2760	3050	3360	3690	4040	4390
MUZM-H047-IAA	ASE32C4U-IAA	2100	2310	2540	2810	3110	3430	3770	4130	4500
MUGM-H049-IAA	ASE32C4U-IAA	2190	2390	2640	2920	3230	3570	3940	4340	4750
MUZP-0050-CAA	RST37C1U-CAA	2010	2270	2560	2870	3210	3570	3960	4380	
MUZP-H051-CAA	RST37C1U-CAA	2060	2330	2630	2940	3290	3660	4070	4500	4950
MUGP-H054-CAA	RST37C1U-CAA	2180	2460	2760	3090	3460	3860	4300	4780	5300
MUZP-0059-CAA	RST44C1U-CAA	2310	2690	3080	3470	3870	4280	4710	5160	
MUZP-H061-CAA	RST44C1U-CAA	2340	2740	3140	3550	3960	4390	4840	5320	5820
MUGP-H065-CAA	RST44C1U-CAA	2410	2840	3280	3730	4190	4670	5180	5720	6300
MUZP-0066-CAA	RST53C1U-CAA	3020	3250	3550	3920	4340	4790	5270	5750	
MUZP-H068-CAA	RST53C1U-CAA	3110	3340	3650	4020	4450	4920	5420	5930	6430
MUZP-0072-CAV	RST58C1U-CAV	3170	3520	3920	4350	4800	5280	5770	6260	
MUGP-H073-CAA	RST53C1U-CAA	3290	3530	3850	4250	4730	5260	5840	6440	7070
MUZP-H074-CAV	RST58C1U-CAV	3240	3610	4030	4470	4950	5440	5950	6460	6970
MUGP-H081-CAV	RST58C1U-CAV	3400	3810	4270	4770	5310	5870	6450	7030	7620
100° Ambient										
MUJM-0019-IAA	ASE12C4U-IAA	779	881	992	1110	1240	1370	1510	1650	
MUJM-H022-IAA	ASE12C4U-IAA	828	939	1060	1190	1340	1490	1650	1830	
MUJM-0022-IAA	ASE17C4U-IAA	955	1050	1170	1290	1420	1560	1700	1850	
MUZM-0023-IAA	ASE12C4U-IAA	847	961	1090	1220	1370	1540	1710	1890	2080
MUZM-H024-IAA	ASE12C4U-IAA	857	971	1100	1240	1390	1560	1730	1920	2110
MUGM-H024-IAA	ASE12C4U-IAA	870	987	1120	1260	1420	1590	1770	1970	2170
MUJM-H024-IAA	ASE17C4U-IAA	1010	1120	1250	1390	1540	1710	1880	2070	
MUZM-0026-IAA	ASE17C4U-IAA	1030	1150	1280	1430	1590	1760	1950	2140	2350
MUZM-H027-IAA	ASE17C4U-IAA	1040	1160	1300	1440	1610	1790	1980	2180	2390
MUGM-H028-IAA	ASE17C4U-IAA	1060	1180	1320	1470	1640	1830	2030	2240	2470
MUJM-0028-IAA	ASE24C4U-IAA	1210	1370	1530	1700	1870	2040	2220	2400	
MUJM-H032-IAA	ASE24C4U-IAA	1320	1500	1690	1880	2090	2300	2530	2760	
MUZM-0036-IAA	ASE24C4U-IAA	1350	1540	1740	1950	2170	2400	2640	2900	3170
MUZM-H036-IAA	ASE24C4U-IAA	1370	1560	1770	1980	2200	2440	2690	2950	3230
MUGM-H038-IAA	ASE24C4U-IAA	1390	1600	1810	2030	2270	2520	2790	3070	3370
MUJM-H039-IAA	ASE32C4U-IAA	1770	1970	2190	2420	2670	2930	3200	3460	
MUZM-0046-IAA	ASE32C4U-IAA	1850	2060	2290	2540	2810	3100	3400	3700	4020
MUZM-H047-IAA	ASE32C4U-IAA	1890	2100	2330	2590	2870	3160	3480	3800	4130
MUZP-0050-CAA	RST37C1U-CAA	1720	1990	2280	2590	2900	3240	3590	3960	
MUGM-H049-IAA	ASE32C4U-IAA	1960	2170	2420	2690	2990	3310	3650	4010	4390
MUZP-H051-CAA	RST37C1U-CAA	1760	2040	2340	2650	2970	3320	3690	4070	4480
MUGP-H054-CAA	RST37C1U-CAA	1850	2140	2440	2770	3130	3510	3920	4350	4820
MUZP-0059-CAA	RST44C1U-CAA	2110	2460	2810	3160	3520	3890	4290	4700	
MUZP-H061-CAA	RST44C1U-CAA	2150	2510	2870	3230	3610	4000	4410	4840	5300
MUGP-H065-CAA	RST44C1U-CAA	2220	2610	3000	3400	3820	4260	4720	5220	5750
MUZP-0066-CAA	RST53C1U-CAA	2610	2870	3180	3540	3940	4370	4800	5230	
MUZP-H068-CAA	RST53C1U-CAA	2700	2960	3280	3650	4060	4490	4950	5400	5840
MUZP-0072-CAV	RST58C1U-CAV	2880	3190	3540	3930	4350	4790	5240	5700	
MUGP-H073-CAA	RST53C1U-CAA	2900	3160	3490	3880	4330	4820	5340	5880	6430
MUZP-H074-CAV	RST58C1U-CAV	2950	3280	3640	4050	4490	4950	5420	5890	6380
MUGP-H081-CAV	RST58C1U-CAV	3100	3470	3890	4350	4850	5370	5910	6470	7030

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

R-290 Medium Temp

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30
110° Ambient										
MUJM-0019-IAA	ASE12C4U-IAA	709	803	904	1010	1120	1240	1360	1480	
MUJM-H022-IAA	ASE12C4U-IAA	746	850	963	1090	1220	1360	1500	1660	
MUJM-0022-IAA	ASE17C4U-IAA	881	968	1070	1170	1290	1410	1540	1670	
MUZM-0023-IAA	ASE12C4U-IAA	766	873	990	1120	1250	1400	1560	1720	1890
MUZM-H024-IAA	ASE12C4U-IAA	773	881	1000	1130	1270	1420	1580	1750	1920
MUGM-H024-IAA	ASE12C4U-IAA	785	896	1020	1150	1300	1450	1620	1800	1980
MUJM-H024-IAA	ASE17C4U-IAA	929	1030	1140	1270	1410	1560	1710	1880	
MUZM-0026-IAA	ASE17C4U-IAA	951	1060	1180	1310	1450	1610	1780	1960	2140
MUZM-H027-IAA	ASE17C4U-IAA	960	1070	1190	1320	1470	1630	1810	1990	2180
MUGM-H028-IAA	ASE17C4U-IAA	974	1090	1210	1350	1510	1680	1860	2050	2260
MUJM-0028-IAA	ASE24C4U-IAA	1090	1230	1380	1520	1670				
MUJM-H032-IAA	ASE24C4U-IAA	1190	1360	1530	1710	1900	2100	2300	2510	
MUZM-0036-IAA	ASE24C4U-IAA	1230	1410	1590	1780	1980	2190	2410	2640	2890
MUZM-H036-IAA	ASE24C4U-IAA	1250	1430	1610	1810	2010	2230	2460	2700	2960
MUGM-H038-IAA	ASE24C4U-IAA	1280	1460	1660	1870	2080	2310	2560	2820	3090
MUJM-H039-IAA	ASE32C4U-IAA	1600	1790	1990	2210	2430	2660	2890		
MUZM-0046-IAA	ASE32C4U-IAA	1670	1860	2080	2320	2560	2820	3090	3350	3620
MUZM-H047-IAA	ASE32C4U-IAA	1700	1900	2120	2360	2620	2890	3170	3450	3730
MUZP-0050-CAA	RST37C1U-CAA	1500	1770	2050	2330	2620	2920	3220	3530	
MUZP-H051-CAA	RST37C1U-CAA	1530	1810	2090	2380	2680	2990	3310	3640	3990
MUGM-H049-IAA	ASE32C4U-IAA	1760	1970	2200	2460	2740	3030	3350	3670	4000
MUGP-H054-CAA	RST37C1U-CAA	1590	1880	2180	2490	2820	3160	3530	3910	4320
MUZP-0059-CAA	RST44C1U-CAA	1890	2210	2520	2840	3170	3510	3870	4260	
MUZP-H061-CAA	RST44C1U-CAA	1940	2260	2590	2920	3250	3610	3990	4380	4810
MUGP-H065-CAA	RST44C1U-CAA	2020	2370	2720	3080	3460	3860	4280	4730	5220
MUZP-0066-CAA	RST53C1U-CAA	2160	2440	2770	3140	3530	3930			
MUZP-H068-CAA	RST53C1U-CAA	2250	2540	2870	3240	3640	4060	4470		
MUZP-0072-CAV	RST58C1U-CAV	2590	2850	3150	3500	3880				
MUGP-H073-CAA	RST53C1U-CAA	2450	2740	3090	3480	3920	4380	4850	5330	5810
MUZP-H074-CAV	RST58C1U-CAV	2660	2930	3260	3620	4010	4440			
MUGP-H081-CAV	RST58C1U-CAV	2800	3120	3490	3910	4370	4850	5360	5880	6410

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

R-404A Low Temp/EMT

Copeland air-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30
90° Ambient														
M6JL-0021-IAA	AFE08C4E-IAA		619	698	782	872	967	1070	1170	1270	1370			
M6JL-H023-IAA	AFE08C4E-IAA		651	739	834	939	1050	1170	1290	1420	1550			
M6JL-0026-IAA	AFE11C4E-IAA		787	891	1010	1130	1260	1390	1530	1670	1810			
M6JL-H030-IAA	AFE11C4E-IAA		853	971	1100	1240	1400	1560	1740	1920	2110			
M6QL-H032-IAA	AFE11C4E-IAA		863	982	1120	1260	1420	1590	1760	1950	2140			
M6ZL-0031-IAA	AFE11C4E-IAA		865	987	1120	1270	1430	1610	1790	1990	2190			
M6JL-H038-IAA	AFE13C4E-IAA		1120	1270	1430	1610	1800	2000	2200	2420	2640			
M6JL-0039-IAA	AFE17C4E-IAA		1190	1330	1470	1620	1770	1920	2060	2190	2310			
M6JL-0039-IAV	AFE17C4E-IAV		1190	1330	1470	1620	1770	1920	2060	2190	2310			
M6ZL-0040-IAA	AFE13C4E-IAA		1140	1300	1470	1660	1860	2070	2300	2530	2770			
M6JL-H041-IAA	AFE14C5E-IAA		1190	1350	1530	1730	1930	2150	2370	2610	2860			
M6JL-H041-IAV	AFE14C5E-IAV		1190	1350	1530	1730	1930	2150	2370	2610	2860			
M6ZL-0042-IAA	AFE14C5E-IAA		1210	1390	1580	1780	2000	2240	2490	2750	3030			
M6ZL-0042-IAV	AFE14C5E-IAV		1210	1390	1580	1780	2000	2240	2490	2750	3030			
M6JL-H048-IAA	AFE17C4E-IAA		1360	1540	1730	1940	2150	2380	2610	2850	3090			
M6JL-H048-IAV	AFE17C4E-IAV		1360	1540	1730	1940	2150	2380	2610	2850	3090			
M6JL-H052-IAA	AFE20C5E-IAA		1550	1770	2000	2240	2490	2740	3010	3270	3540			
M6JL-H052-IAV	AFE20C5E-IAV		1550	1770	2000	2240	2490	2740	3010	3270	3540			
M6ZL-0055-IAA	AFE20C5E-IAA		1600	1840	2080	2350	2630	2930	3230	3550	3880			
M6ZL-0055-IAV	AFE20C5E-IAV		1600	1840	2080	2350	2630	2930	3230	3550	3880			
M6ZP-0053-IAA	RST45C1E-IAA		1380	1740	2100	2460	2810	3170	3530	3890	4250	4610	4980	5340
M6ZP-0053-IAV	RST45C1E-IAV		1380	1740	2100	2460	2810	3170	3530	3890	4250	4610	4980	5340
M6ZP-H059-CAA	RST45C1E-CAA		1410	1770	2130	2480	2840	3190	3550	3920	4290	4670	5060	5450
M6ZP-H059-CAV	RST45C1E-CAV		1410	1770	2130	2480	2840	3190	3550	3920	4290	4670	5060	5450
M6GP-H064-CAA	RST45C1E-CAA		1460	1830	2210	2580	2970	3360	3760	4170	4600	5040	5490	5970
M6GP-H064-CAV	RST45C1E-CAV		1460	1830	2210	2580	2970	3360	3760	4170	4600	5040	5490	5970
M6KP-0064-CAA	RST45C1E-CAA		1470	1840	2220	2600	2980	3380	3790	4200	4640	5090	5560	6050
M6KP-0064-CAV	RST45C1E-CAV		1470	1840	2220	2600	2980	3380	3790	4200	4640	5090	5560	6050
M6ZL-H064-CAA	RFT22C1E-CAA	1470	1740	2030	2340	2660	2990	3350	3710	4080				
M6ZL-H064-CAV	RFT22C1E-CAV	1470	1740	2030	2340	2660	2990	3350	3710	4080				
M6ZL-H064-IAA	RFT22C1E-IAA	1470	1740	2030	2340	2660	2990	3350	3710	4080				
M6ZL-H064-IAV	RFT22C1E-IAV	1470	1740	2030	2340	2660	2990	3350	3710	4080				
M6GL-H070-CAA	RFT22C1E-CAA	1560	1840	2130	2450	2780	3140	3510	3900	4300				
M6GL-H070-CAV	RFT22C1E-CAV	1560	1840	2130	2450	2780	3140	3510	3900	4300				
M6ZL-H066-CAV	AFE23C5E-CAV		2110	2400	2710	3040	3400	3770	3770	3770	3770			
M6ZL-H076-CAV	AFE26C5E-CAV		2120	2420	2740	3070	3430	3800	4180	4580	4980			
M6ZL-H078-CAA	RFT26C1E-CAA	1790	2090	2410	2750	3100	3460	3840	4220	4620				
M6ZL-H078-CAV	RFT26C1E-CAV	1790	2090	2410	2750	3100	3460	3840	4220	4620				
M6ZL-H078-IAA	RFT26C1E-IAA	1790	2090	2410	2750	3100	3460	3840	4220	4620				
M6ZL-H078-IAV	RFT26C1E-IAV	1790	2090	2410	2750	3100	3460	3840	4220	4620				
M6ZL-0078-IAA	RFT26C1E-IAA	1790	2090	2420	2770	3130	3500	3870	4250	4610				
M6ZL-0078-IAV	RFT26C1E-IAV	1790	2090	2420	2770	3130	3500	3870	4250	4610				
M6GP-H074-CAA	RST55C1E-CAA		2280	2570	2900	3260	3660	4090	4540	5020	5510	6020	6550	7070
M6GP-H074-CAV	RST55C1E-CAV		2280	2570	2900	3260	3660	4090	4540	5020	5510	6020	6550	7070
M6GL-H079-CAA	RFT26C1E-CAA	1860	2180	2530	2890	3280	3690	4110	4560	5020				
M6GL-H079-CAV	RFT26C1E-CAV	1860	2180	2530	2890	3280	3690	4110	4560	5020				
M6KP-0075-CAA	RST55C1E-CAA		2300	2590	2920	3290	3690	4130	4590	5080	5590	6120	6660	7210
M6KP-0075-CAV	RST55C1E-CAV		2300	2590	2920	3290	3690	4130	4590	5080	5590	6120	6660	7210
M6GP-H090-CAV	RST64C1E-CAV		2650	3090	3550	4010	4490	4980	5480	6000	6520	7050	7580	8130
M6GP-H090-CFA	RST64C1E-CFA		2650	3090	3550	4010	4490	4980	5480	6000	6520	7050	7580	8130
M6KP-0092-CAV	RST64C1E-CAV		2660	3110	3580	4050	4540	5040	5560	6090	6630	7190	7750	8330
M6KP-0092-CFA	RST64C1E-CFA		2660	3110	3580	4050	4540	5040	5560	6090	6630	7190	7750	8330
M6KP-0095-CFV	RST70C1E-PFV		2620	3080	3570	4100	4650	5230	5820	6430	7050	7680	8310	8940
M6ZL-0098-CFV	RST80C1E-PFV		2870	3290	3730	4190	4640	5100	5560	6000	6420	6820	7210	
M6ZP-H090-CFA	RST80C1E-PFA		2930	3370	3810	4280	4760	5240	5730	6220	6710	7190	7680	8150
M6ZP-H090-CFV	RST80C1E-PFV		2930	3370	3810	4280	4760	5240	5730	6220	6710	7190	7680	8150
M6KP-0102-CAV	RST64C1E-CAV		2850	3350	3870	4420	4990	5600	6240	6910	7620	8370	9150	9970
M6KP-0102-CFA	RST64C1E-CFA		2850	3350	3870	4420	4990	5600	6240	6910	7620	8370	9150	9970
M6KP-0112-CFV	RST70C1E-PFV		2940	3460	4010	4580	5200	5840	6530	7250	8010	8810	9650	10500
M6KP-0106-CFV	RST80C1E-PFV		3130	3620	4140	4690	5270	5870	6490	7120	7770	8430	9100	9770
M6KL-0123-CFA	RFT42C1E-PFA	2840	3310	3820	4350	4900	5470	6040	6630	7210				
M6KL-0123-CFV	RFT42C1E-PFV	2840	3310	3820	4350	4900	5470	6040	6630	7210				
M6KP-0116-CFV	RST97C1E-PFV		3600	4120	4660	5240	5840	6460	7090	7730	8370	9000	9620	10200
M6KP-0127-CFV	RST80C1E-PFV		3420	3990	4610	5270	5980	6720	7510	8330	9190	10100	11000	12000
M6KP-0142-CFV	RST97C1E-PFV		3970	4570	5220	5920	6670	7460	8290	9150	10000	11000	11900	12900

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

R-404A Low Temp/EMT

Copeland air-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30
100° Ambient														
M6JL-0021-IAA	AFE08C4E-IAA		542	614	691	773	860	949	1040	1140	1230			
M6JL-H023-IAA	AFE08C4E-IAA		592	673	761	855	956	1060	1170	1290	1400			
M6JL-0026-IAA	AFE11C4E-IAA		699	794	897	1010	1120	1240	1360	1480	1600			
M6JL-H030-IAA	AFE11C4E-IAA		762	872	993	1120	1270	1410	1570	1730	1900			
M6QL-H032-IAA	AFE11C4E-IAA		763	875	1000	1140	1280	1440	1600	1770	1950			
M6ZL-0031-IAA	AFE11C4E-IAA		766	880	1010	1150	1300	1460	1630	1810	1990			
M6JL-0039-IAA	AFE17C4E-IAA				1290	1420	1560	1690						
M6JL-0039-IAV	AFE17C4E-IAV				1290	1420	1560	1690						
M6JL-H038-IAA	AFE13C4E-IAA		1000	1150	1300	1460	1630	1810	2000	2190	2380			
M6ZL-0040-IAA	AFE13C4E-IAA		1020	1170	1330	1510	1700	1890	2100	2320	2540			
M6JL-H041-IAA	AFE14C5E-IAA		1060	1210	1380	1550	1730	1920	2120	2330	2550			
M6JL-H041-IAV	AFE14C5E-IAV		1060	1210	1380	1550	1730	1920	2120	2330	2550			
M6ZL-0042-IAA	AFE14C5E-IAA		1080	1240	1420	1610	1810	2030	2260	2500	2750			
M6ZL-0042-IAV	AFE14C5E-IAV		1080	1240	1420	1610	1810	2030	2260	2500	2750			
M6JL-H048-IAA	AFE17C4E-IAA		1210	1370	1540	1730	1920	2110	2310	2520	2720			
M6JL-H048-IAV	AFE17C4E-IAV		1210	1370	1540	1730	1920	2110	2310	2520	2720			
M6JL-H052-IAA	AFE20C5E-IAA		1390	1580	1780	1990	2210	2430	2650	2870	3100			
M6JL-H052-IAV	AFE20C5E-IAV		1390	1580	1780	1990	2210	2430	2650	2870	3100			
M6ZL-0055-IAA	AFE20C5E-IAA		1440	1650	1880	2120	2370	2630	2900	3190	3470			
M6ZL-0055-IAV	AFE20C5E-IAV		1440	1650	1880	2120	2370	2630	2900	3190	3470			
M6ZP-0053-IAA	RST45C1E-IAA		1160	1510	1850	2180	2510	2830	3150	3470	3790	4100	4410	4710
M6ZP-0053-IAV	RST45C1E-IAV		1160	1510	1850	2180	2510	2830	3150	3470	3790	4100	4410	4710
M6ZP-H059-CAA	RST45C1E-CAA		1180	1520	1870	2200	2540	2870	3200	3540	3870	4210	4550	4890
M6ZP-H059-CAV	RST45C1E-CAV		1180	1520	1870	2200	2540	2870	3200	3540	3870	4210	4550	4890
M6GP-H064-CAA	RST45C1E-CAA		1220	1580	1940	2290	2650	3010	3380	3750	4140	4540	4950	5380
M6GP-H064-CAV	RST45C1E-CAV		1220	1580	1940	2290	2650	3010	3380	3750	4140	4540	4950	5380
M6KP-0064-CAA	RST45C1E-CAA		1220	1590	1940	2300	2660	3030	3400	3790	4180	4590	5020	5460
M6KP-0064-CAV	RST45C1E-CAV		1220	1590	1940	2300	2660	3030	3400	3790	4180	4590	5020	5460
M6ZL-H064-CAA	RFT22C1E-CAA	1260	1500	1770	2050	2340	2660	2980	3320	3670				
M6ZL-H064-CAV	RFT22C1E-CAV	1260	1500	1770	2050	2340	2660	2980	3320	3670				
M6ZL-H064-IAA	RFT22C1E-IAA	1260	1500	1770	2050	2340	2660	2980	3320	3670				
M6ZL-H064-IAV	RFT22C1E-IAV	1260	1500	1770	2050	2340	2660	2980	3320	3670				
M6GL-H070-CAA	RFT22C1E-CAA	1360	1610	1870	2160	2460	2790	3130	3490	3860				
M6GL-H070-CAV	RFT22C1E-CAV	1360	1610	1870	2160	2460	2790	3130	3490	3860				
M6ZL-H078-CAA	RFT26C1E-CAA	1560	1830	2130	2440	2760	3100	3440	3800	4160				
M6ZL-H078-CAV	RFT26C1E-CAV	1560	1830	2130	2440	2760	3100	3440	3800	4160				
M6ZL-H078-IAA	RFT26C1E-IAA	1560	1830	2130	2440	2760	3100	3440	3800	4160				
M6ZL-H078-IAV	RFT26C1E-IAV	1560	1830	2130	2440	2760	3100	3440	3800	4160				
M6ZL-0078-IAA	RFT26C1E-IAA	1560	1840	2140	2450	2770	3100	3410	3730	4020				
M6ZL-0078-IAV	RFT26C1E-IAV	1560	1840	2140	2450	2770	3100	3410	3730	4020				
M6ZL-H076-CAV	AFE26C5E-CAV		1900	2180	2480	2790	3120	3460	3810	4160	4520			
M6ZL-H066-CAV	AFE23C5E-CAV		1930	2200	2500	2810	3150	3500	3800	4160	4520			
M6GP-H074-CAA	RST55C1E-CAA		1990	2240	2530	2850	3210	3600	4020	4460	4920	5390	5870	6350
M6GP-H074-CAV	RST55C1E-CAV		1990	2240	2530	2850	3210	3600	4020	4460	4920	5390	5870	6350
M6KP-0075-CAA	RST55C1E-CAA		2000	2250	2540	2870	3240	3640	4070	4520	4990	5480	5980	6490
M6KP-0075-CAV	RST55C1E-CAV		2000	2250	2540	2870	3240	3640	4070	4520	4990	5480	5980	6490
M6GL-H079-CAA	RFT26C1E-CAA	1620	1910	2220	2560	2910	3290	3680	4090	4510				
M6GL-H079-CAV	RFT26C1E-CAV	1620	1910	2220	2560	2910	3290	3680	4090	4510				
M6GP-H090-CAV	RST64C1E-CAV		2320	2740	3160	3590	4030	4480	4930	5390	5860	6330	6790	7250
M6GP-H090-CFA	RST64C1E-CFA		2320	2740	3160	3590	4030	4480	4930	5390	5860	6330	6790	7250
M6KP-0092-CAV	RST64C1E-CAV		2340	2760	3190	3630	4080	4540	5010	5490	5980	6480	6980	7490
M6KP-0092-CFA	RST64C1E-CFA		2340	2760	3190	3630	4080	4540	5010	5490	5980	6480	6980	7490
M6KP-0095-CFV	RST70C1E-PFV		2240	2670	3140	3630	4150	4690	5240	5800	6370	6930	7490	8050
M6ZL-0098-CFV	RST80C1E-PFV		2520	2900	3280	3680	4080	4480	4860	5230				
M6ZP-H090-CFA	RST80C1E-PFA		2580	2980	3390	3810	4240	4670	5090	5490	5870			
M6ZP-H090-CFV	RST80C1E-PFV		2580	2980	3390	3810	4240	4670	5090	5490	5870			
M6KP-0102-CAV	RST64C1E-CAV		2500	2960	3450	3960	4490	5050	5630	6250	6910	7590	8310	9070
M6KP-0102-CFA	RST64C1E-CFA		2500	2960	3450	3960	4490	5050	5630	6250	6910	7590	8310	9070
M6KP-0112-CFV	RST70C1E-PFV		2490	2990	3500	4050	4620	5220	5860	6530	7230	7970	8740	9560
M6KP-0106-CFV	RST80C1E-PFV		2730	3170	3650	4150	4680	5230	5800	6380	6970	7560	8160	8750
M6KL-0123-CFA	RFT42C1E-PFA	2520	2960	3420	3900	4400	4900	5420	5940	6450				
M6KL-0123-CFV	RFT42C1E-PFV	2520	2960	3420	3900	4400	4900	5420	5940	6450				
M6KP-0127-CFV	RST80C1E-PFV		2950	3470	4030	4640	5290	5990	6720	7490	8300	9140	10000	10900
M6KP-0116-CFV	RST97C1E-PFV		3130	3620	4130	4660	5220	5790	6370	6950	7510	8070	8600	9110
M6KP-0142-CFV	RST97C1E-PFV		3440	4000	4610	5260	5950	6690	7460	8260	9080	9930	10800	11700

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

R-404A Low Temp/EMT

Copeland air-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30
110° Ambient														
M6JL-0021-IAA	AFE08C4E-IAA			516	592	673	758	846	937	1030	1120			
M6JL-H023-IAA	AFE08C4E-IAA		508	586	670	759	853	952	1050	1160	1260			
M6JL-0026-IAA	AFE11C4E-IAA				808	905	1010	1110	1220	1330	1430			
M6JL-H030-IAA	AFE11C4E-IAA		681	781	891	1010	1130	1270	1410	1550	1690			
M6QL-H032-IAA	AFE11C4E-IAA		685	787	899	1020	1150	1290	1430	1580	1740			
M6ZL-0031-IAA	AFE11C4E-IAA		686	790	905	1030	1170	1310	1460	1620	1790			
M6JL-H038-IAA	AFE13C4E-IAA			1030	1170	1310	1470	1630	1790	1950	2120			
M6ZL-0040-IAA	AFE13C4E-IAA		913	1050	1200	1360	1530	1710	1900	2090	2280			
M6JL-H041-IAA	AFE14C5E-IAA			1070	1210	1370	1520	1690	1860	2040	2230			
M6JL-H041-IAV	AFE14C5E-IAV			1070	1210	1370	1520	1690	1860	2040	2230			
M6ZL-0042-IAA	AFE14C5E-IAA		955	1100	1260	1430	1610	1800	2000	2220	2440			
M6ZL-0042-IAV	AFE14C5E-IAV		955	1100	1260	1430	1610	1800	2000	2220	2440			
M6JL-H048-IAA	AFE17C4E-IAA			1210	1360	1520	1680	1850	2020	2180	2340			
M6JL-H048-IAV	AFE17C4E-IAV			1210	1360	1520	1680	1850	2020	2180	2340			
M6JL-H052-IAA	AFE20C5E-IAA			1390	1570	1740	1920	2110	2290	2460				
M6JL-H052-IAV	AFE20C5E-IAV			1390	1570	1740	1920	2110	2290	2460				
M6ZL-0055-IAA	AFE20C5E-IAA			1460	1660	1870	2090	2310	2540	2780	3010			
M6ZL-0055-IAV	AFE20C5E-IAV			1460	1660	1870	2090	2310	2540	2780	3010			
M6ZP-0053-IAA	RST45C1E-IAA			1280	1590	1890	2180	2460	2730	3000	3260	3510	3760	
M6ZP-0053-IAV	RST45C1E-IAV			1280	1590	1890	2180	2460	2730	3000	3260	3510	3760	
M6ZP-H059-CAA	RST45C1E-CAA		962	1290	1610	1920	2220	2520	2810	3100	3380	3660	3940	4200
M6ZP-H059-CAV	RST45C1E-CAV		962	1290	1610	1920	2220	2520	2810	3100	3380	3660	3940	4200
M6GP-H064-CAA	RST45C1E-CAA		991	1330	1670	2000	2330	2650	2990	3320	3670	4020	4380	4750
M6GP-H064-CAV	RST45C1E-CAV		991	1330	1670	2000	2330	2650	2990	3320	3670	4020	4380	4750
M6KP-0064-CAA	RST45C1E-CAA		996	1340	1680	2010	2340	2670	3010	3350	3700	4070	4440	4830
M6KP-0064-CAV	RST45C1E-CAV		996	1340	1680	2010	2340	2670	3010	3350	3700	4070	4440	4830
M6ZL-H064-CAA	RFT22C1E-CAA	1060	1270	1500	1740	2010	2280	2570	2870	3170				
M6ZL-H064-CAV	RFT22C1E-CAV	1060	1270	1500	1740	2010	2280	2570	2870	3170				
M6ZL-H064-IAA	RFT22C1E-IAA	1060	1270	1500	1740	2010	2280	2570	2870	3170				
M6ZL-H064-IAV	RFT22C1E-IAV	1060	1270	1500	1740	2010	2280	2570	2870	3170				
M6GL-H070-CAA	RFT22C1E-CAA	1150	1370	1610	1870	2150	2440	2750	3080	3430				
M6GL-H070-CAV	RFT22C1E-CAV	1150	1370	1610	1870	2150	2440	2750	3080	3430				
M6ZL-H078-IAA	RFT26C1E-IAA		1590	1850	2110	2370	2630	2880	3110	3320				
M6ZL-H078-IAV	RFT26C1E-IAV		1590	1850	2110	2370	2630	2880	3110	3320				
M6ZL-H078-CAA	RFT26C1E-CAA		1580	1840	2110	2400	2700	3000	3310	3620				
M6ZL-H078-CAV	RFT26C1E-CAV		1580	1840	2110	2400	2700	3000	3310	3620				
M6ZL-H078-IAA	RFT26C1E-IAA		1580	1840	2110	2400	2700	3000	3310	3620				
M6ZL-H078-IAV	RFT26C1E-IAV		1580	1840	2110	2400	2700	3000	3310	3620				
M6GP-H074-CAA	RST55C1E-CAA			1930	2180	2470	2790	3140	3520	3920	4330	4750	5170	5600
M6GP-H074-CAV	RST55C1E-CAV			1930	2180	2470	2790	3140	3520	3920	4330	4750	5170	5600
M6ZL-H076-CAV	AFE26C5E-CAV			1940	2200	2480	2770	3060	3360	3660	3950			
M6KP-0075-CAA	RST55C1E-CAA		1730	1940	2190	2490	2810	3170	3550	3960	4390	4830	5280	5740
M6KP-0075-CAV	RST55C1E-CAV		1730	1940	2190	2490	2810	3170	3550	3960	4390	4830	5280	5740
M6GL-H079-CAA	RFT26C1E-CAA	1380	1640	1920	2230	2550	2880	3240	3610	3990				
M6GL-H079-CAV	RFT26C1E-CAV	1380	1640	1920	2230	2550	2880	3240	3610	3990				
M6ZL-H066-CAV	AFE23C5E-CAV			2000	2270	2560	2860	3180	3180	3180	3180			
M6KP-0095-CFV	RST70C1E-PFV			2250	2680	3140	3620	4100	4600	5100	5600	6090	6560	7010
M6GP-H090-CAV	RST64C1E-CAV			2370	2760	3150	3550	3940	4340	4730	5120	5480	5810	
M6GP-H090-CFA	RST64C1E-CFA			2370	2760	3150	3550	3940	4340	4730	5120	5480	5810	
M6ZL-0098-CFV	RST80C1E-PFV				2840	3170	3500	3830						
M6KP-0092-CAV	RST64C1E-CAV			2390	2780	3180	3590	4000	4410	4830	5250	5680	6090	6480
M6KP-0092-CFA	RST64C1E-CFA			2390	2780	3180	3590	4000	4410	4830	5250	5680	6090	6480
M6ZP-H090-CFA	RST80C1E-PFA				2950	3300	3660	4010	4340					
M6ZP-H090-CFV	RST80C1E-PFV				2950	3300	3660	4010	4340					
M6KP-0106-CFV	RST80C1E-PFV			2760	3170	3620	4090	4570	5070	5580	6090	6590	7080	
M6KP-0102-CAV	RST64C1E-CAV		2330	2760	3200	3650	4120	4600	5110	5630	6170	6740	7320	7930
M6KP-0102-CFA	RST64C1E-CFA		2330	2760	3200	3650	4120	4600	5110	5630	6170	6740	7320	7930
M6KP-0112-CFV	RST70C1E-PFV		2290	2740	3220	3700	4210	4740	5290	5860	6450	7070	7710	8370
M6KL-0123-CFA	RFT42C1E-PFA		2610	3020	3440	3870	4310	4750	5180	5600				
M6KL-0123-CFV	RFT42C1E-PFV		2610	3020	3440	3870	4310	4750	5180	5600				
M6KP-0116-CFV	RST97C1E-PFV			3110	3580	4070	4580	5080	5590	6090	6560			
M6KP-0127-CFV	RST80C1E-PFV		2730	3180	3680	4200	4760	5350	5970	6610	7280	7970	8680	9410
M6KP-0142-CFV	RST97C1E-PFV		3140	3640	4170	4740	5340	5960	6600	7260	7930	8610	9290	9970

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

R-404A Medium Temp

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30
90° Ambient										
M6JM-0017-IAA	ASE12C4E-IAA	785	883	989	1100	1220	1350	1480	1620	1750
M6JM-H020-IAA	ASE12C4E-IAA	855	967	1090	1230	1370	1530	1700	1880	2060
M6ZM-0021-IAA	ASE12C4E-IAA	868	983	1110	1250	1410	1580	1760	1950	2150
M6JM-H023-IAA	ASE14C4E-IAA	1060	1190	1320	1470	1640	1810	1990	2180	2380
M6JM-H028-IAA	ASE20C4E-IAA	1230	1470	1690	1900	2100	2300	2510	2730	2960
M6JM-H028-IAV	ASE20C4E-IAV	1230	1470	1690	1900	2100	2300	2510	2730	2960
M6ZM-0031-IAA	ASE20C4E-IAA	1200	1440	1670	1900	2110	2340	2570	2810	3080
M6JM-H030-IAA	ASE24C5E-IAA	1290	1560	1790	1990	2180	2390	2620	2890	3210
M6ZM-0025-IAA	ASE14C4E-IAA	1240	1490	1730	1960	2190	2420	2650	2910	3180
M6ZM-0025-IAV	ASE20C4E-IAV	1240	1490	1730	1960	2190	2420	2650	2910	3180
M6ZM-H026-CAA	ASE20C4E-CAA	1480	1600	1770	1970	2200	2450	2710	2980	3260
M6ZM-0032-IAA	ASE24C5E-IAA	1340	1610	1850	2070	2280	2510	2770	3080	3450
M6ZM-H035-IAA	ASE24C5E-IAA	1380	1650	1890	2110	2320	2560	2820	3140	3510
M6JM-H035-IAA	ASE28C5E-IAA	1880	1950	2070	2240	2470	2740	3050	3390	3760
M6JM-H035-IAV	ASE28C5E-IAV	1880	1950	2070	2240	2470	2740	3050	3390	3760
M6ZM-0038-IAA	ASE28C5E-IAA	1950	2030	2160	2360	2610	2910	3270	3660	4090
M6ZM-0038-IAV	ASE28C5E-IAV	1950	2030	2160	2360	2610	2910	3270	3660	4090
M6JM-H043-IAA	ASE39C5E-IAA		2560	2730	2950	3210	3510	3830	4170	4510
M6ZM-0048-IAA	ASE39C5E-IAA	2580	2710	2900	3160	3460	3810	4200	4620	5050
M6ZM-H054-CAV	ASE39C5E-CAV	2570	2740	2970	3240	3560	3910	4290	4680	5090
100° Ambient										
M6JM-0017-IAA	ASE12C4E-IAA		776	871	972	1080	1190	1300	1420	1530
M6JM-H020-IAA	ASE12C4E-IAA	757	860	973	1100	1230	1370	1520	1680	1840
M6ZM-0021-IAA	ASE12C4E-IAA	761	868	987	1120	1260	1410	1580	1750	1930
M6JM-H023-IAA	ASE14C4E-IAA		1070	1190	1330	1470	1620	1780	1950	2130
M6JM-H028-IAA	ASE20C4E-IAA		1410	1580	1750	1900	2060	2220	2400	2590
M6JM-H028-IAV	ASE20C4E-IAV		1410	1580	1750	1900	2060	2220	2400	2590
M6ZM-0031-IAA	ASE20C4E-IAA		1380	1560	1750	1930	2110	2310	2520	2750
M6JM-H030-IAA	ASE24C5E-IAA		1380	1600	1780	1950	2130	2330	2560	2840
M6ZM-0025-IAA	ASE14C4E-IAA		1430	1620	1810	1990	2180	2380	2600	2830
M6ZM-0025-IAV	ASE20C4E-IAV		1430	1620	1810	1990	2180	2380	2600	2830
M6ZM-H026-CAA	ASE20C4E-CAA	1320	1420	1570	1750	1960	2190	2440	2690	2950
M6ZM-0032-IAA	ASE24C5E-IAA		1430	1660	1870	2060	2260	2500	2770	3100
M6ZM-H035-IAA	ASE24C5E-IAA	1180	1460	1690	1900	2100	2310	2550	2830	3180
M6JM-H035-IAA	ASE28C5E-IAA		1740	1840	1990	2190	2420	2690	2990	3320
M6JM-H035-IAV	ASE28C5E-IAV		1740	1840	1990	2190	2420	2690	2990	3320
M6ZM-0038-IAA	ASE28C5E-IAA		1820	1940	2120	2350	2620	2940	3300	3690
M6ZM-0038-IAV	ASE28C5E-IAV		1820	1940	2120	2350	2620	2940	3300	3690
M6JM-H043-IAA	ASE39C5E-IAA			2440	2620	2840	3090	3350	3630	3900
M6ZM-0048-IAA	ASE39C5E-IAA		2450	2630	2860	3130	3440	3780	4140	4510
M6ZM-H054-CAV	ASE39C5E-CAV		2480	2680	2930	3220	3550	3900	4260	4630
110° Ambient										
M6JM-0017-IAA	ASE12C4E-IAA			859	952	1050	1150	1250	1350	
M6JM-H020-IAA	ASE12C4E-IAA			861	970	1090	1210	1340	1480	1620
M6ZM-0021-IAA	ASE12C4E-IAA			875	992	1120	1250	1400	1550	1710
M6JM-H023-IAA	ASE14C4E-IAA			1060	1180	1310	1440	1580	1720	1880
M6JM-H028-IAA	ASE20C4E-IAA				1600	1700	1810	1930	2060	2200
M6JM-H028-IAV	ASE20C4E-IAV				1600	1700	1810	1930	2060	2200
M6ZM-0031-IAA	ASE20C4E-IAA			1470	1600	1740	1880	2030	2190	2380
M6JM-H030-IAA	ASE24C5E-IAA				1580	1730	1880	2040	2230	2460
M6ZM-0025-IAA	ASE14C4E-IAA			1520	1660	1790	1940	2090	2260	2450
M6ZM-0025-IAV	ASE20C4E-IAV			1520	1660	1790	1940	2090	2260	2450
M6ZM-H026-CAA	ASE20C4E-CAA			1400	1560	1740	1950	2170	2390	2620
M6ZM-0032-IAA	ASE24C5E-IAA			1470	1660	1830	2010	2200	2440	2720
M6ZM-H035-IAA	ASE24C5E-IAA			1500	1690	1870	2050	2260	2510	2810
M6JM-H035-IAA	ASE28C5E-IAA				1740	1900	2100	2340	2590	2870
M6JM-H035-IAV	ASE28C5E-IAV				1740	1900	2100	2340	2590	2870
M6ZM-0038-IAA	ASE28C5E-IAA			1710	1870	2060	2300	2580	2890	3230
M6ZM-0038-IAV	ASE28C5E-IAV			1710	1870	2060	2300	2580	2890	3230
M6JM-H043-IAA	ASE39C5E-IAA					2440				
M6ZM-0048-IAA	ASE39C5E-IAA				2520	2750	3000	3280	3570	3860
M6ZM-H054-CAV	ASE39C5E-CAV				2610	2860	3150	3460	3780	4100

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

R-448A Low Temp

Copeland air-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15
90° Ambient											
M6JL-0021-IAA	AFE08C4E-IAA		615	692	785	891	1010	1140	1270	1410	1560
M6JL-H023-IAA	AFE08C4E-IAA		609	698	804	926	1060	1210	1380	1550	1730
M6JL-0026-IAA	AFE11C4E-IAA		701	790	896	1020	1150	1300	1450	1610	1770
M6JL-H030-IAA	AFE11C4E-IAA		710	812	935	1080	1230	1410	1590	1790	1990
M6QL-H032-IAA	AFE11C4E-IAA		710	813	937	1080	1240	1410	1600	1800	2010
M6ZL-0031-IAA	AFE11C4E-IAA		710	814	940	1080	1250	1430	1620	1830	2040
M6JL-H038-IAA	AFE13C4E-IAA		915	1050	1200	1380	1580	1790	2020	2260	2510
M6ZL-0040-IAA	AFE13C4E-IAA		921	1060	1220	1400	1610	1840	2080	2340	2610
M6JL-0039-IAA	AFE17C4E-IAA		1050	1180	1330	1500	1680	1870	2070	2280	2490
M6JL-0039-IAV	AFE17C4E-IAV		1050	1180	1330	1500	1680	1870	2070	2280	2490
M6ZL-0042-IAA	AFE14C5E-IAA		1040	1180	1350	1530	1730	1950	2190	2440	2700
M6ZL-0042-IAV	AFE14C5E-IAV		1040	1180	1350	1530	1730	1950	2190	2440	2700
M6JL-H041-IAA	AFE14C5E-IAA		1030	1190	1370	1570	1780	2010	2260	2510	2770
M6JL-H041-IAV	AFE14C5E-IAV		1030	1190	1370	1570	1780	2010	2260	2510	2770
M6JL-H048-IAA	AFE17C4E-IAA		1140	1300	1490	1700	1930	2180	2430	2700	2960
M6JL-H048-IAV	AFE17C4E-IAV		1140	1300	1490	1700	1930	2180	2430	2700	2960
M6JL-H052-IAA	AFE20C5E-IAA		1350	1560	1790	2040	2300	2590	2880	3170	3460
M6JL-H052-IAV	AFE20C5E-IAV		1350	1560	1790	2040	2300	2590	2880	3170	3460
M6ZL-0055-IAA	AFE20C5E-IAA		1380	1590	1840	2110	2400	2710	3030	3360	3700
M6ZL-0055-IAV	AFE20C5E-IAV		1380	1590	1840	2110	2400	2710	3030	3360	3700
M6ZL-H064-CAA	RFT22C1E-CAA	1160	1350	1570	1840	2140	2470	2830	3220	3620	
M6ZL-H064-CAV	RFT22C1E-CAV	1160	1350	1570	1840	2140	2470	2830	3220	3620	
M6ZL-H064-IAA	RFT22C1E-IAA	1160	1350	1570	1840	2140	2470	2830	3220	3620	
M6ZL-H064-IAV	RFT22C1E-IAV	1160	1350	1570	1840	2140	2470	2830	3220	3620	
M6ZL-0063-IAA	RFT22C1E-IAA	1170	1360	1590	1850	2150	2480	2840	3220	3620	
M6ZL-0063-IAV	RFT22C1E-IAV	1170	1360	1590	1850	2150	2480	2840	3220	3620	
M6GL-H070-CAA	RFT22C1E-CAA	1240	1440	1680	1970	2300	2660	3060	3500	3960	
M6GL-H070-CAV	RFT22C1E-CAV	1240	1440	1680	1970	2300	2660	3060	3500	3960	
M6ZL-H066-CAV	AFE23C5E-CAV		1620	1880	2160	2470	2810	3170	3550	3950	4360
M6ZL-0078-IAA	RFT26C1E-IAA	1400	1620	1890	2200	2550	2930	3330	3770	4210	
M6ZL-0078-IAV	RFT26C1E-IAV	1400	1620	1890	2200	2550	2930	3330	3770	4210	
M6ZL-H078-CAA	RFT26C1E-CAA	1490	1730	2010	2340	2720	3130	3570	4030	4520	
M6ZL-H078-CAV	RFT26C1E-CAV	1490	1730	2010	2340	2720	3130	3570	4030	4520	
M6ZL-H078-IAA	RFT26C1E-IAA	1490	1730	2010	2340	2720	3130	3570	4030	4520	
M6ZL-H078-IAV	RFT26C1E-IAV	1490	1730	2010	2340	2720	3130	3570	4030	4520	
M6ZL-H076-CAV	AFE26C5E-CAV		1800	2090	2400	2750	3120	3520	3940	4370	4810
M6GL-H079-CAA	RFT26C1E-CAA	1520	1770	2070	2420	2820	3260	3740	4250	4800	
M6GL-H079-CAV	RFT26C1E-CAV	1520	1770	2070	2420	2820	3260	3740	4250	4800	
M6ZL-0098-CFV	RST80C1E-PFV								5150	5700	6270
M6KL-0123-CFA	RFT42C1E-PFA	2660	2900	3270	3720	4250	4840	5460	6110	6780	
M6KL-0123-CFV	RFT42C1E-PFV	2660	2900	3270	3720	4250	4840	5460	6110	6780	

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

R-448A Low Temp

Copeland air-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15
100° Ambient											
M6JL-0021-IAA	AFE08C4E-IAA		567	638	722	819	927	1040	1170	1300	1430
M6JL-H023-IAA	AFE08C4E-IAA		552	637	736	851	978	1120	1270	1420	1590
M6JL-0026-IAA	AFE11C4E-IAA		641	723	820	931	1050	1190	1320	1470	1620
M6JL-H030-IAA	AFE11C4E-IAA		642	740	856	988	1130	1290	1460	1640	1830
M6QL-H032-IAA	AFE11C4E-IAA		643	741	858	991	1140	1300	1470	1660	1850
M6ZL-0031-IAA	AFE11C4E-IAA		642	742	860	996	1150	1310	1490	1680	1880
M6JL-H038-IAA	AFE13C4E-IAA		825	950	1100	1260	1450	1650	1860	2080	2310
M6ZL-0040-IAA	AFE13C4E-IAA		831	960	1110	1290	1480	1690	1920	2150	2400
M6JL-0039-IAA	AFE17C4E-IAA				1200	1350	1510	1690			
M6JL-0039-IAV	AFE17C4E-IAV				1200	1350	1510	1690			
M6ZL-0042-IAA	AFE14C5E-IAA		929	1070	1230	1400	1590	1800	2010	2240	2480
M6ZL-0042-IAV	AFE14C5E-IAV		929	1070	1230	1400	1590	1800	2010	2240	2480
M6JL-H041-IAA	AFE14C5E-IAA		921	1070	1230	1420	1620	1830	2060	2290	2530
M6JL-H041-IAV	AFE14C5E-IAV		921	1070	1230	1420	1620	1830	2060	2290	2530
M6JL-H048-IAA	AFE17C4E-IAA		1050	1190	1350	1550	1760	1990	2230	2470	2720
M6JL-H048-IAV	AFE17C4E-IAV		1050	1190	1350	1550	1760	1990	2230	2470	2720
M6JL-H052-IAA	AFE20C5E-IAA		1220	1410	1620	1850	2090	2350	2610	2880	3140
M6JL-H052-IAV	AFE20C5E-IAV		1220	1410	1620	1850	2090	2350	2610	2880	3140
M6ZL-0055-IAA	AFE20C5E-IAA		1240	1440	1670	1910	2180	2460	2750	3050	3360
M6ZL-0055-IAV	AFE20C5E-IAV		1240	1440	1670	1910	2180	2460	2750	3050	3360
M6ZL-H064-CAA	RFT22C1E-CAA		1210	1420	1670	1940	2250	2580	2930	3310	
M6ZL-H064-CAV	RFT22C1E-CAV		1210	1420	1670	1940	2250	2580	2930	3310	
M6ZL-H064-IAA	RFT22C1E-IAA		1210	1420	1670	1940	2250	2580	2930	3310	
M6ZL-H064-IAV	RFT22C1E-IAV		1210	1420	1670	1940	2250	2580	2930	3310	
M6ZL-0063-IAA	RFT22C1E-IAA		1220	1430	1670	1950	2250	2580	2930	3290	
M6ZL-0063-IAV	RFT22C1E-IAV		1220	1430	1670	1950	2250	2580	2930	3290	
M6GL-H070-CAA	RFT22C1E-CAA		1290	1520	1790	2090	2430	2800	3200	3630	
M6GL-H070-CAV	RFT22C1E-CAV		1290	1520	1790	2090	2430	2800	3200	3630	
M6ZL-H066-CAV	AFE23C5E-CAV		1470	1710	1970	2260	2570	2910	3260	3620	4000
M6ZL-0078-IAA	RFT26C1E-IAA			1700	1980	2300	2650	3020	3410	3820	
M6ZL-0078-IAV	RFT26C1E-IAV			1700	1980	2300	2650	3020	3410	3820	
M6ZL-H078-CAA	RFT26C1E-CAA		1550	1820	2120	2460	2840	3240	3670	4110	
M6ZL-H078-CAV	RFT26C1E-CAV		1550	1820	2120	2460	2840	3240	3670	4110	
M6ZL-H078-IAA	RFT26C1E-IAA		1550	1820	2120	2460	2840	3240	3670	4110	
M6ZL-H078-IAV	RFT26C1E-IAV		1550	1820	2120	2460	2840	3240	3670	4110	
M6ZL-H076-CAV	AFE26C5E-CAV		1640	1900	2190	2510	2860	3220	3600	4000	4400
M6GL-H079-CAA	RFT26C1E-CAA		1590	1870	2200	2560	2970	3410	3890	4390	
M6GL-H079-CAV	RFT26C1E-CAV		1590	1870	2200	2560	2970	3410	3890	4390	
M6ZL-0098-CFV	RST80C1E-PFV									5200	
M6KL-0123-CFA	RFT42C1E-PFA			3150	3500	3930	4430	4980	5570	6180	
M6KL-0123-CFV	RFT42C1E-PFV			3150	3500	3930	4430	4980	5570	6180	

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

R-448A Low Temp

Copeland air-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15
110° Ambient											
M6JL-0021-IAA	AFE08C4E-IAA				612	711	819	934	1050	1180	1300
M6JL-H023-IAA	AFE08C4E-IAA		501	582	676	783	902	1030	1170	1310	1460
M6JL-0026-IAA	AFE11C4E-IAA				699	812	933	1060	1190	1330	
M6QL-H032-IAA	AFE11C4E-IAA			655	767	894	1030	1180	1340	1510	1690
M6ZL-0031-IAA	AFE11C4E-IAA			654	769	899	1040	1200	1360	1540	1720
M6JL-H030-IAA	AFE11C4E-IAA		579	672	781	905	1040	1190	1340	1500	1670
M6JL-H038-IAA	AFE13C4E-IAA			851	989	1140	1310	1490	1690	1880	2090
M6ZL-0040-IAA	AFE13C4E-IAA			843	990	1160	1340	1540	1740	1960	2190
M6ZL-0042-IAA	AFE14C5E-IAA			941	1100	1270	1450	1640	1840	2050	2270
M6ZL-0042-IAV	AFE14C5E-IAV			941	1100	1270	1450	1640	1840	2050	2270
M6JL-H041-IAA	AFE14C5E-IAA			968	1120	1290	1470	1660	1860	2080	2290
M6JL-H041-IAV	AFE14C5E-IAV			968	1120	1290	1470	1660	1860	2080	2290
M6JL-H048-IAA	AFE17C4E-IAA				1230	1400	1590	1790	2010	2230	
M6JL-H048-IAV	AFE17C4E-IAV				1230	1400	1590	1790	2010	2230	
M6JL-H052-IAA	AFE20C5E-IAA				1470	1680	1900	2120	2360	2600	
M6JL-H052-IAV	AFE20C5E-IAV				1470	1680	1900	2120	2360	2600	
M6ZL-0055-IAA	AFE20C5E-IAA				1510	1730	1970	2230	2490	2760	3030
M6ZL-0055-IAV	AFE20C5E-IAV				1510	1730	1970	2230	2490	2760	3030
M6ZL-0063-IAA	RFT22C1E-IAA				1490	1740	2010	2310	2620	2950	
M6ZL-0063-IAV	RFT22C1E-IAV				1490	1740	2010	2310	2620	2950	
M6ZL-H064-CAA	RFT22C1E-CAA				1480	1740	2010	2320	2640	2970	
M6ZL-H064-CAV	RFT22C1E-CAV				1480	1740	2010	2320	2640	2970	
M6ZL-H064-IAA	RFT22C1E-IAA				1480	1740	2010	2320	2640	2970	
M6ZL-H064-IAV	RFT22C1E-IAV				1480	1740	2010	2320	2640	2970	
M6GL-H070-CAA	RFT22C1E-CAA			1360	1600	1880	2190	2530	2890	3280	
M6GL-H070-CAV	RFT22C1E-CAV			1360	1600	1880	2190	2530	2890	3280	
M6ZL-0078-IAA	RFT26C1E-IAA				1760	2040	2360	2690	3040	3400	
M6ZL-0078-IAV	RFT26C1E-IAV				1760	2040	2360	2690	3040	3400	
M6ZL-H066-CAV	AFE23C5E-CAV				1790	2050	2340	2640	2960	3300	3640
M6ZL-H078-CAA	RFT26C1E-CAA				1880	2190	2530	2890	3270	3670	
M6ZL-H078-CAV	RFT26C1E-CAV				1880	2190	2530	2890	3270	3670	
M6ZL-H078-IAA	RFT26C1E-IAA				1880	2190	2530	2890	3270	3670	
M6ZL-H078-IAV	RFT26C1E-IAV				1880	2190	2530	2890	3270	3670	
M6ZL-H076-CAV	AFE26C5E-CAV				1990	2280	2600	2930	3280	3640	4000
M6GL-H079-CAA	RFT26C1E-CAA				1960	2300	2670	3070	3500	3960	
M6GL-H079-CAV	RFT26C1E-CAV				1960	2300	2670	3070	3500	3960	
M6KL-0123-CFA	RFT42C1E-PFA				3390	3710	4100	4570	5070	5610	
M6KL-0123-CFV	RFT42C1E-PFV				3390	3710	4100	4570	5070	5610	

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

R-448A Medium Temp/EMT

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30
90° Ambient										
M6ZM-0048-IAA	ASE39C5E-IAA		2520	2630	2890	3240	3670	4120	4580	5000
M6ZP-0053-IAA	RST45C1E-IAA	1970	2280	2610	2960	3320	3720	4140	4590	5070
M6ZP-0053-IAV	RST45C1E-IAV	1970	2280	2610	2960	3320	3720	4140	4590	5070
M6ZM-H054-CAV	ASE39C5E-CAV	2090	2450	2830	3220	3610	3990	4370	4730	5070
M6ZP-H059-CAA	RST45C1E-CAA	2050	2370	2720	3090	3510	3950	4420	4930	5460
M6ZP-H059-CAV	RST45C1E-CAV	2050	2370	2720	3090	3510	3950	4420	4930	5460
M6GP-H064-CAA	RST45C1E-CAA	2120	2460	2830	3240	3690	4180	4710	5290	5900
M6GP-H064-CAV	RST45C1E-CAV	2120	2460	2830	3240	3690	4180	4710	5290	5900
M6KP-0064-CAA	RST45C1E-CAA	2120	2460	2840	3260	3710	4210	4750	5340	5970
M6KP-0064-CAV	RST45C1E-CAV	2120	2460	2840	3260	3710	4210	4750	5340	5970
M6GP-H074-CAA	RST55C1E-CAA	2680	3020	3440	3910	4440	5030	5660	6340	7060
M6GP-H074-CAV	RST55C1E-CAV	2680	3020	3440	3910	4440	5030	5660	6340	7060
M6KP-0075-CAA	RST55C1E-CAA	2690	3040	3460	3940	4490	5090	5740	6430	7170
M6KP-0075-CAV	RST55C1E-CAV	2690	3040	3460	3940	4490	5090	5740	6430	7170
M6ZP-H090-CFA	RST80C1E-PFA			4750	5310	5880	6470	7070	7680	
M6ZP-H090-CFV	RST80C1E-PFV			4750	5310	5880	6470	7070	7680	
M6GP-H090-CAV	RST64C1E-CAV		4020	4530	5090	5680	6310	6990	7720	8500
M6GP-H090-CFA	RST64C1E-CFA		4020	4530	5090	5680	6310	6990	7720	8500
M6KP-0095-CFV	RST70C1E-PFV	3440	3990	4580	5180	5810	6460	7140	7830	8530
M6KP-0092-CAV	RST64C1E-CAV	3550	4040	4570	5140	5740	6400	7100	7860	8670
M6KP-0092-CFA	RST64C1E-CFA	3550	4040	4570	5140	5740	6400	7100	7860	8670
M6KP-0102-CAV	RST64C1E-CAV	3790	4340	4950	5600	6330	7120	8000	8960	10000
M6KP-0102-CFA	RST64C1E-CFA	3790	4340	4950	5600	6330	7120	8000	8960	10000
M6KP-0106-CFV	RST80C1E-PFV		4660	5310	6000	6710	7460	8230	9020	9820
M6KP-0112-CFV	RST70C1E-PFV	3890	4500	5160	5860	6610	7410	8250	9140	10100
M6KP-0116-CFV	RST97C1E-PFV		5200	5890	6610	7350	8110	8870	9640	10400
M6KP-0127-CFV	RST80C1E-PFV	4470	5180	5940	6760	7620	8540	9490	10500	11500
M6KP-0142-CFV	RST97C1E-PFV	5040	5810	6620	7490	8410	9360	10300	11400	12400
M6KP-0064-CAV	RST45C1E-CAV	2120	2460	2840	3260	3710	4210	4750	5340	5970
M6GP-H074-CAA	RST55C1E-CAA	2680	3020	3440	3910	4440	5030	5660	6340	7060
M6GP-H074-CAV	RST55C1E-CAV	2680	3020	3440	3910	4440	5030	5660	6340	7060
M6KP-0075-CAA	RST55C1E-CAA	2690	3040	3460	3940	4490	5090	5740	6430	7170
M6KP-0075-CAV	RST55C1E-CAV	2690	3040	3460	3940	4490	5090	5740	6430	7170
M6ZP-H090-CFA	RST80C1E-PFA			4750	5310	5880	6470	7070	7680	
M6ZP-H090-CFV	RST80C1E-PFV			4750	5310	5880	6470	7070	7680	
M6GP-H090-CAV	RST64C1E-CAV		4020	4530	5090	5680	6310	6990	7720	8500
M6GP-H090-CFA	RST64C1E-CFA		4020	4530	5090	5680	6310	6990	7720	8500
M6KP-0095-CFV	RST70C1E-PFV	3440	3990	4580	5180	5810	6460	7140	7830	8530
M6KP-0092-CAV	RST64C1E-CAV	3550	4040	4570	5140	5740	6400	7100	7860	8670
M6KP-0092-CFA	RST64C1E-CFA	3550	4040	4570	5140	5740	6400	7100	7860	8670
M6KP-0102-CAV	RST64C1E-CAV	3790	4340	4950	5600	6330	7120	8000	8960	10000
M6KP-0102-CFA	RST64C1E-CFA	3790	4340	4950	5600	6330	7120	8000	8960	10000
M6KP-0106-CFV	RST80C1E-PFV		4660	5310	6000	6710	7460	8230	9020	9820
M6KP-0112-CFV	RST70C1E-PFV	3890	4500	5160	5860	6610	7410	8250	9140	10100
M6KP-0116-CFV	RST97C1E-PFV		5200	5890	6610	7350	8110	8870	9640	10400
M6KP-0127-CFV	RST80C1E-PFV	4470	5180	5940	6760	7620	8540	9490	10500	11500
M6KP-0142-CFV	RST97C1E-PFV	5040	5810	6620	7490	8410	9360	10300	11400	12400

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

R-448A Medium Temp/EMT

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30
100° Ambient										
M6JM-0017-IAA	ASE12C4E-IAA		715	819	929	1050	1170	1300	1440	1580
M6JM-H020-IAA	ASE12C4E-IAA		730	856	990	1130	1280	1440	1610	1800
M6ZM-0021-IAA	ASE12C4E-IAA		731	861	999	1150	1300	1470	1650	1850
M6JM-H023-IAA	ASE14C4E-IAA		915	1060	1210	1360	1530	1700	1900	2100
M6QM-H025-IAA	ASE14C4E-IAA		918	1060	1210	1370	1540	1720	1910	2120
M6JM-H028-IAA	ASE20C4E-IAA			1430	1610	1780	1960	2150	2350	2570
M6JM-H028-IAV	ASE20C4E-IAV			1430	1610	1780	1960	2150	2350	2570
M6ZM-0031-IAA	ASE20C4E-IAA		1200	1400	1580	1770	1960	2160	2390	2630
M6ZM-0025-IAA	ASE14C4E-IAA			1440	1640	1830	2030	2240	2460	2710
M6ZM-0025-IAV	ASE20C4E-IAV			1440	1640	1830	2030	2240	2460	2710
M6ZM-H026-CAA	ASE20C4E-CAA		1210	1380	1570	1790	2030	2290	2560	2850
M6JM-H030-IAA	ASE24C5E-IAA		1300	1480	1670	1880	2100	2340	2600	2880
M6ZM-0032-IAA	ASE24C5E-IAA		1330	1510	1720	1940	2180	2450	2730	3030
M6ZM-H035-IAA	ASE24C5E-IAA		1350	1540	1750	1980	2230	2500	2790	3100
M6JM-H035-IAA	ASE28C5E-IAA			1780	1950	2170	2430	2730	3070	3450
M6JM-H035-IAV	ASE28C5E-IAV			1780	1950	2170	2430	2730	3070	3450
M6ZM-0038-IAA	ASE28C5E-IAA			1830	2020	2250	2530	2860	3240	3670
M6ZM-0038-IAV	ASE28C5E-IAV			1830	2020	2250	2530	2860	3240	3670
M6JM-H043-IAA	ASE39C5E-IAA				2510	2780	3120	3480	3840	
M6ZP-0053-IAA	RST45C1E-IAA			2370	2680	3010	3360	3730	4130	4560
M6ZP-0053-IAV	RST45C1E-IAV			2370	2680	3010	3360	3730	4130	4560
M6ZM-0048-IAA	ASE39C5E-IAA			2430	2640	2950	3340	3750	4170	4560
M6ZM-H054-CAV	ASE39C5E-CAV			2580	2940	3300	3660	4020	4360	4690
M6ZP-H059-CAA	RST45C1E-CAA			2440	2790	3160	3560	3990	4450	4940
M6ZP-H059-CAV	RST45C1E-CAV			2440	2790	3160	3560	3990	4450	4940
M6GP-H064-CAA	RST45C1E-CAA		2200	2550	2920	3330	3780	4270	4790	5360
M6GP-H064-CAV	RST45C1E-CAV		2200	2550	2920	3330	3780	4270	4790	5360
M6KP-0064-CAA	RST45C1E-CAA		2210	2550	2930	3350	3810	4310	4840	5420
M6KP-0064-CAV	RST45C1E-CAV		2210	2550	2930	3350	3810	4310	4840	5420
M6GP-H074-CAA	RST55C1E-CAA			3040	3480	3970	4510	5110	5740	6420
M6GP-H074-CAV	RST55C1E-CAV			3040	3480	3970	4510	5110	5740	6420
M6KP-0075-CAA	RST55C1E-CAA		2680	3060	3500	4010	4560	5170	5830	6520
M6KP-0075-CAV	RST55C1E-CAV		2680	3060	3500	4010	4560	5170	5830	6520
M6GP-H090-CAV	RST64C1E-CAV			4150	4650	5190	5770	6400	7070	7780
M6GP-H090-CFA	RST64C1E-CFA			4150	4650	5190	5770	6400	7070	7780
M6KP-0092-CAV	RST64C1E-CAV			4180	4700	5260	5860	6500	7200	7950
M6KP-0092-CFA	RST64C1E-CFA			4180	4700	5260	5860	6500	7200	7950
M6ZP-H090-CFA	RST80C1E-PFA					5350	5900			
M6ZP-H090-CFV	RST80C1E-PFV					5350	5900			
M6KP-0095-CFV	RST70C1E-PFV			4140	4720	5320	5930	6560	7200	7860
M6KP-0106-CFV	RST80C1E-PFV			4760	5400	6070	6760	7480	8230	8980
M6KP-0102-CAV	RST64C1E-CAV		3980	4540	5150	5810	6540	7350	8240	9210
M6KP-0102-CFA	RST64C1E-CFA		3980	4540	5150	5810	6540	7350	8240	9210
M6KP-0112-CFV	RST70C1E-PFV		4040	4670	5330	6030	6780	7560	8390	9260
M6KP-0116-CFV	RST97C1E-PFV				5990	6690	7400	8110	8820	
M6KP-0127-CFV	RST80C1E-PFV		4630	5340	6110	6920	7790	8690	9640	10600
M6KP-0142-CFV	RST97C1E-PFV		5230	6000	6820	7670	8560	9480	10400	11400

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

R-448A Medium Temp/EMT

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30
110° Ambient										
M6JM-0017-IAA	ASE12C4E-IAA				818	931	1050	1170	1300	1440
M6JM-H020-IAA	ASE12C4E-IAA			779	900	1030	1160	1310	1460	1620
M6ZM-0021-IAA	ASE12C4E-IAA			767	893	1030	1170	1330	1490	1670
M6JM-H023-IAA	ASE14C4E-IAA			962	1100	1240	1390	1550	1730	1920
M6QM-H025-IAA	ASE14C4E-IAA			954	1090	1240	1390	1560	1740	1940
M6JM-H028-IAA	ASE20C4E-IAA						1770	1920	2080	2270
M6JM-H028-IAV	ASE20C4E-IAV						1770	1920	2080	2270
M6ZM-H026-CAA	ASE20C4E-CAA		1240	1410	1610	1830	2070	2320	2580	
M6ZM-0031-IAA	ASE20C4E-IAA				1470	1620	1780	1940	2130	2340
M6ZM-0025-IAA	ASE14C4E-IAA					1680	1840	2010	2200	2420
M6ZM-0025-IAV	ASE20C4E-IAV					1680	1840	2010	2200	2420
M6JM-H030-IAA	ASE24C5E-IAA				1500	1690	1890	2110	2340	2590
M6ZM-0032-IAA	ASE24C5E-IAA					1540	1740	1970	2210	2470
M6ZM-H035-IAA	ASE24C5E-IAA		1380	1570	1780	2000	2250	2520	2810	
M6JM-H035-IAA	ASE28C5E-IAA				1780	1980	2210	2480		
M6JM-H035-IAV	ASE28C5E-IAV				1780	1980	2210	2480		
M6ZM-0038-IAA	ASE28C5E-IAA				1840	2060	2320	2620	2960	3350
M6ZM-0038-IAV	ASE28C5E-IAV				1840	2060	2320	2620	2960	3350
M6JM-H043-IAA	ASE39C5E-IAA					2470				
M6ZP-0053-IAA	RST45C1E-IAA					2660	2970	3290		
M6ZP-0053-IAV	RST45C1E-IAV					2660	2970	3290		
M6ZM-0048-IAA	ASE39C5E-IAA				2390	2660	2990	3370		
M6ZP-H059-CAA	RST45C1E-CAA				2480	2810	3180	3570	3990	
M6ZP-H059-CAV	RST45C1E-CAV				2480	2810	3180	3570	3990	
M6GP-H064-CAA	RST45C1E-CAA				2610	2980	3390	3830	4310	4820
M6GP-H064-CAV	RST45C1E-CAV				2610	2980	3390	3830	4310	4820
M6KP-0064-CAA	RST45C1E-CAA				2620	3000	3420	3870	4360	4890
M6KP-0064-CAV	RST45C1E-CAV				2620	3000	3420	3870	4360	4890
M6ZM-H054-CAV	ASE39C5E-CAV				2690	3020	3370	3710	4040	
M6GP-H074-CAA	RST55C1E-CAA				3090	3540	4050	4600	5200	5850
M6GP-H074-CAV	RST55C1E-CAV				3090	3540	4050	4600	5200	5850
M6KP-0075-CAA	RST55C1E-CAA				3110	3570	4090	4660	5280	5940
M6KP-0075-CAV	RST55C1E-CAV				3110	3570	4090	4660	5280	5940
M6GP-H090-CAV	RST64C1E-CAV					4720	5250	5810		
M6GP-H090-CFA	RST64C1E-CFA					4720	5250	5810		
M6KP-0092-CAV	RST64C1E-CAV				4280	4780	5330	5920		
M6KP-0092-CFA	RST64C1E-CFA				4280	4780	5330	5920		
M6KP-0095-CFV	RST70C1E-PFV				4250	4820	5390	5980	6580	
M6KP-0102-CAV	RST64C1E-CAV			4060	4620	5220	5890	6640	7460	8360
M6KP-0102-CFA	RST64C1E-CFA			4060	4620	5220	5890	6640	7460	8360
M6KP-0112-CFV	RST70C1E-PFV			4060	4690	5350	6050	6790	7580	8390
M6KP-0106-CFV	RST80C1E-PFV					5440	6080			
M6KP-0116-CFV	RST97C1E-PFV					6040				
M6KP-0127-CFV	RST80C1E-PFV				5370	6130	6950	7810	8710	9650
M6KP-0142-CFV	RST97C1E-PFV				6060	6870	7720	8590	9480	10400

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

R-449A Low Temp

Copeland air-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15
90° Ambient											
M6JL-0021-IAA	AFE08C4E-IAA		610	689	784	891	1010	1140	1280	1420	1570
M6JL-H023-IAA	AFE08C4E-IAA		611	700	806	928	1070	1220	1380	1550	1730
M6JL-0026-IAA	AFE11C4E-IAA		698	789	897	1020	1150	1300	1450	1610	1780
M6JL-H030-IAA	AFE11C4E-IAA		711	814	937	1080	1240	1410	1590	1790	1990
M6QL-H032-IAA	AFE11C4E-IAA		711	814	938	1080	1240	1420	1600	1800	2010
M6ZL-0031-IAA	AFE11C4E-IAA		712	816	942	1090	1250	1430	1620	1830	2050
M6JL-H038-IAA	AFE13C4E-IAA		917	1050	1200	1380	1580	1800	2020	2260	2510
M6ZL-0040-IAA	AFE13C4E-IAA		923	1060	1220	1400	1610	1840	2080	2340	2610
M6JL-0039-IAA	AFE17C4E-IAA		1060	1190	1330	1500	1680	1880	2080	2290	2500
M6JL-0039-IAV	AFE17C4E-IAV		1060	1190	1330	1500	1680	1880	2080	2290	2500
M6ZL-0042-IAA	AFE14C5E-IAA		1040	1180	1350	1530	1730	1950	2190	2440	2700
M6ZL-0042-IAV	AFE14C5E-IAV		1040	1180	1350	1530	1730	1950	2190	2440	2700
M6JL-H041-IAA	AFE14C5E-IAA		1030	1190	1370	1570	1790	2020	2260	2510	2770
M6JL-H041-IAV	AFE14C5E-IAV		1030	1190	1370	1570	1790	2020	2260	2510	2770
M6JL-H048-IAA	AFE17C4E-IAA		1140	1300	1490	1710	1940	2180	2440	2700	2960
M6JL-H048-IAV	AFE17C4E-IAV		1140	1300	1490	1710	1940	2180	2440	2700	2960
M6JL-H052-IAA	AFE20C5E-IAA		1350	1560	1790	2040	2310	2590	2880	3170	3470
M6JL-H052-IAV	AFE20C5E-IAV		1350	1560	1790	2040	2310	2590	2880	3170	3470
M6ZL-0055-IAA	AFE20C5E-IAA		1380	1600	1840	2110	2400	2710	3040	3370	3710
M6ZL-0055-IAV	AFE20C5E-IAV		1380	1600	1840	2110	2400	2710	3040	3370	3710
M6ZL-H064-CAA	RFT22C1E-CAA	1160	1350	1570	1840	2140	2470	2830	3220	3630	
M6ZL-H064-CAV	RFT22C1E-CAV	1160	1350	1570	1840	2140	2470	2830	3220	3630	
M6ZL-H064-IAA	RFT22C1E-IAA	1160	1350	1570	1840	2140	2470	2830	3220	3630	
M6ZL-H064-IAV	RFT22C1E-IAV	1160	1350	1570	1840	2140	2470	2830	3220	3630	
M6ZL-0063-IAA	RFT22C1E-IAA	1170	1360	1590	1850	2150	2480	2840	3220	3620	
M6ZL-0063-IAV	RFT22C1E-IAV	1170	1360	1590	1850	2150	2480	2840	3220	3620	
M6GL-H070-CAA	RFT22C1E-CAA	1240	1440	1680	1970	2300	2670	3070	3500	3960	
M6GL-H070-CAV	RFT22C1E-CAV	1240	1440	1680	1970	2300	2670	3070	3500	3960	
M6ZL-H066-CAV	AFE23C5E-CAV		1630	1880	2160	2480	2810	3170	3550	3950	4360
M6ZL-0078-IAA	RFT26C1E-IAA	1400	1620	1890	2200	2550	2930	3340	3770	4210	
M6ZL-0078-IAV	RFT26C1E-IAV	1400	1620	1890	2200	2550	2930	3340	3770	4210	
M6ZL-H078-CAA	RFT26C1E-CAA	1490	1730	2020	2350	2720	3130	3570	4030	4520	
M6ZL-H078-CAV	RFT26C1E-CAV	1490	1730	2020	2350	2720	3130	3570	4030	4520	
M6ZL-H078-IAA	RFT26C1E-IAA	1490	1730	2020	2350	2720	3130	3570	4030	4520	
M6ZL-H078-IAV	RFT26C1E-IAV	1490	1730	2020	2350	2720	3130	3570	4030	4520	
M6ZL-H076-CAV	AFE26C5E-CAV		1810	2090	2410	2750	3130	3520	3940	4370	4810
M6GL-H079-CAA	RFT26C1E-CAA	1530	1770	2070	2420	2820	3260	3740	4260	4800	
M6GL-H079-CAV	RFT26C1E-CAV	1530	1770	2070	2420	2820	3260	3740	4260	4800	
M6ZL-0098-CFV	RST80C1E-PFV								5140	5700	6260
M6KL-0123-CFA	RFT42C1E-PFA	2660	2910	3270	3730	4250	4840	5460	6110	6780	
M6KL-0123-CFV	RFT42C1E-PFV	2660	2910	3270	3730	4250	4840	5460	6110	6780	

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

R-449A Low Temp

Copeland air-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15
100° Ambient											
M6JL-0021-IAA	AFE08C4E-IAA		559	633	720	819	928	1050	1170	1300	1430
M6JL-H023-IAA	AFE08C4E-IAA		554	638	738	853	980	1120	1270	1430	1590
M6JL-0026-IAA	AFE11C4E-IAA		636	720	820	933	1060	1190	1330	1470	1620
M6JL-H030-IAA	AFE11C4E-IAA		644	742	858	990	1140	1300	1470	1650	1830
M6QL-H032-IAA	AFE11C4E-IAA		644	743	859	993	1140	1300	1480	1660	1850
M6ZL-0031-IAA	AFE11C4E-IAA		643	743	862	998	1150	1320	1490	1680	1880
M6JL-H038-IAA	AFE13C4E-IAA		827	952	1100	1270	1450	1650	1860	2080	2310
M6ZL-0040-IAA	AFE13C4E-IAA		832	961	1110	1290	1480	1690	1920	2150	2400
M6JL-0039-IAA	AFE17C4E-IAA				1210	1360	1520	1690			
M6JL-0039-IAV	AFE17C4E-IAV				1210	1360	1520	1690			
M6ZL-0042-IAA	AFE14C5E-IAA		931	1070	1230	1410	1600	1800	2020	2250	2490
M6ZL-0042-IAV	AFE14C5E-IAV		931	1070	1230	1410	1600	1800	2020	2250	2490
M6JL-H041-IAA	AFE14C5E-IAA		923	1070	1240	1420	1620	1830	2060	2290	2530
M6JL-H041-IAV	AFE14C5E-IAV		923	1070	1240	1420	1620	1830	2060	2290	2530
M6JL-H048-IAA	AFE17C4E-IAA		1050	1190	1360	1550	1760	1990	2230	2470	2720
M6JL-H048-IAV	AFE17C4E-IAV		1050	1190	1360	1550	1760	1990	2230	2470	2720
M6JL-H052-IAA	AFE20C5E-IAA		1220	1410	1620	1850	2100	2350	2610	2880	3140
M6JL-H052-IAV	AFE20C5E-IAV		1220	1410	1620	1850	2100	2350	2610	2880	3140
M6ZL-0055-IAA	AFE20C5E-IAA		1240	1440	1670	1910	2180	2460	2750	3050	3360
M6ZL-0055-IAV	AFE20C5E-IAV		1240	1440	1670	1910	2180	2460	2750	3050	3360
M6ZL-0063-IAA	RFT22C1E-IAA		1220	1430	1680	1950	2250	2580	2930	3290	
M6ZL-0063-IAV	RFT22C1E-IAV		1220	1430	1680	1950	2250	2580	2930	3290	
M6ZL-H064-CAA	RFT22C1E-CAA		1210	1420	1670	1950	2250	2580	2940	3310	
M6ZL-H064-CAV	RFT22C1E-CAV		1210	1420	1670	1950	2250	2580	2940	3310	
M6ZL-H064-IAA	RFT22C1E-IAA		1210	1420	1670	1950	2250	2580	2940	3310	
M6ZL-H064-IAV	RFT22C1E-IAV		1210	1420	1670	1950	2250	2580	2940	3310	
M6GL-H070-CAA	RFT22C1E-CAA		1290	1520	1790	2100	2430	2810	3200	3630	
M6GL-H070-CAV	RFT22C1E-CAV		1290	1520	1790	2100	2430	2810	3200	3630	
M6ZL-H066-CAV	AFE23C5E-CAV		1480	1710	1970	2260	2570	2910	3260	3620	4000
M6ZL-0078-IAA	RFT26C1E-IAA			1700	1990	2300	2650	3020	3410	3820	
M6ZL-0078-IAV	RFT26C1E-IAV			1700	1990	2300	2650	3020	3410	3820	
M6ZL-H078-CAA	RFT26C1E-CAA		1550	1820	2120	2470	2840	3240	3670	4100	
M6ZL-H078-CAV	RFT26C1E-CAV		1550	1820	2120	2470	2840	3240	3670	4100	
M6ZL-H078-IAA	RFT26C1E-IAA		1550	1820	2120	2470	2840	3240	3670	4100	
M6ZL-H078-IAV	RFT26C1E-IAV		1550	1820	2120	2470	2840	3240	3670	4100	
M6ZL-H076-CAV	AFE26C5E-CAV		1640	1900	2190	2510	2860	3220	3600	4000	4400
M6GL-H079-CAA	RFT26C1E-CAA		1600	1870	2200	2570	2970	3420	3890	4390	
M6GL-H079-CAV	RFT26C1E-CAV		1600	1870	2200	2570	2970	3420	3890	4390	
M6ZL-0098-CFV	RST80C1E-PFV									5190	
M6KL-0123-CFA	RFT42C1E-PFA			3150	3500	3930	4430	4980	5570	6170	
M6KL-0123-CFV	RFT42C1E-PFV			3150	3500	3930	4430	4980	5570	6170	

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

R-449A Low Temp

Copeland air-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15
110° Ambient											
M6JL-0021-IAA	AFE08C4E-IAA				614	713	821	936	1060	1180	1300
M6JL-H023-IAA	AFE08C4E-IAA		502	583	678	785	903	1030	1170	1310	1460
M6JL-0026-IAA	AFE11C4E-IAA				701	814	936	1060	1200	1330	
M6QL-H032-IAA	AFE11C4E-IAA			657	769	896	1040	1190	1350	1510	1690
M6ZL-0031-IAA	AFE11C4E-IAA			656	771	901	1040	1200	1360	1540	1720
M6JL-H030-IAA	AFE11C4E-IAA		580	674	783	906	1040	1190	1340	1510	1670
M6JL-H038-IAA	AFE13C4E-IAA			853	991	1150	1320	1500	1690	1890	2090
M6ZL-0040-IAA	AFE13C4E-IAA			845	992	1160	1340	1540	1750	1970	2190
M6ZL-0042-IAA	AFE14C5E-IAA			943	1100	1270	1450	1640	1840	2050	2270
M6ZL-0042-IAV	AFE14C5E-IAV			943	1100	1270	1450	1640	1840	2050	2270
M6JL-H041-IAA	AFE14C5E-IAA			970	1120	1290	1470	1660	1870	2080	2300
M6JL-H041-IAV	AFE14C5E-IAV			970	1120	1290	1470	1660	1870	2080	2300
M6JL-H048-IAA	AFE17C4E-IAA				1230	1400	1590	1790	2010	2230	
M6JL-H048-IAV	AFE17C4E-IAV				1230	1400	1590	1790	2010	2230	
M6JL-H052-IAA	AFE20C5E-IAA				1470	1680	1900	2130	2360	2600	
M6JL-H052-IAV	AFE20C5E-IAV				1470	1680	1900	2130	2360	2600	
M6ZL-0055-IAA	AFE20C5E-IAA				1510	1730	1980	2230	2490	2760	3030
M6ZL-0055-IAV	AFE20C5E-IAV				1510	1730	1980	2230	2490	2760	3030
M6ZL-0063-IAA	RFT22C1E-IAA				1490	1740	2010	2310	2620	2950	
M6ZL-0063-IAV	RFT22C1E-IAV				1490	1740	2010	2310	2620	2950	
M6ZL-H064-CAA	RFT22C1E-CAA				1490	1740	2020	2320	2640	2970	
M6ZL-H064-CAV	RFT22C1E-CAV				1490	1740	2020	2320	2640	2970	
M6ZL-H064-IAA	RFT22C1E-IAA				1490	1740	2020	2320	2640	2970	
M6ZL-H064-IAV	RFT22C1E-IAV				1490	1740	2020	2320	2640	2970	
M6GL-H070-CAA	RFT22C1E-CAA			1360	1600	1880	2190	2530	2890	3280	
M6GL-H070-CAV	RFT22C1E-CAV			1360	1600	1880	2190	2530	2890	3280	
M6ZL-0078-IAA	RFT26C1E-IAA				1760	2040	2360	2690	3040	3400	
M6ZL-0078-IAV	RFT26C1E-IAV				1760	2040	2360	2690	3040	3400	
M6ZL-H066-CAV	AFE23C5E-CAV				1790	2050	2340	2640	2970	3300	3640
M6ZL-H078-CAA	RFT26C1E-CAA				1880	2190	2530	2890	3270	3670	
M6ZL-H078-CAV	RFT26C1E-CAV				1880	2190	2530	2890	3270	3670	
M6ZL-H078-IAA	RFT26C1E-IAA				1880	2190	2530	2890	3270	3670	
M6ZL-H078-IAV	RFT26C1E-IAV				1880	2190	2530	2890	3270	3670	
M6ZL-H076-CAV	AFE26C5E-CAV				1990	2280	2600	2930	3280	3640	4000
M6GL-H079-CAA	RFT26C1E-CAA				1960	2300	2670	3070	3500	3960	
M6GL-H079-CAV	RFT26C1E-CAV				1960	2300	2670	3070	3500	3960	
M6KL-0123-CFA	RFT42C1E-PFA				3390	3710	4100	4560	5070	5600	
M6KL-0123-CFV	RFT42C1E-PFV				3390	3710	4100	4560	5070	5600	

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

R-449A Medium Temp/EMT

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30
90° Ambient										
M6JM-0017-IAA	ASE12C4E-IAA	681	791	907	1030	1160	1300	1440	1590	1750
M6JM-H020-IAA	ASE12C4E-IAA	690	818	954	1100	1250	1420	1590	1780	1980
M6ZM-0021-IAA	ASE12C4E-IAA	689	820	960	1110	1270	1440	1630	1820	2030
M6JM-H023-IAA	ASE14C4E-IAA	859	1010	1170	1330	1500	1680	1870	2080	2300
M6QM-H025-IAA	ASE14C4E-IAA	860	1010	1170	1330	1510	1690	1890	2100	2320
M6JM-H028-IAA	ASE20C4E-IAA			1510	1730	1940	2150	2370	2610	2860
M6JM-H028-IAV	ASE20C4E-IAV			1510	1730	1940	2150	2370	2610	2860
M6ZM-0031-IAA	ASE20C4E-IAA	984	1240	1480	1700	1920	2150	2390	2640	2920
M6ZM-0025-IAA	ASE14C4E-IAA			1530	1760	1990	2220	2470	2730	3010
M6ZM-0025-IAV	ASE20C4E-IAV			1530	1760	1990	2220	2470	2730	3010
M6ZM-H026-CAA	ASE20C4E-CAA	1170	1330	1520	1740	1980	2240	2520	2810	3110
M6JM-H030-IAA	ASE24C5E-IAA	1270	1450	1640	1850	2080	2320	2580	2860	3160
M6ZM-0032-IAA	ASE24C5E-IAA	1290	1470	1680	1900	2150	2410	2690	3000	3320
M6ZM-H035-IAA	ASE24C5E-IAA	1300	1490	1700	1930	2180	2450	2740	3060	3390
M6JM-H035-IAA	ASE28C5E-IAA	1710	1800	1940	2130	2360	2640	2970	3350	3770
M6JM-H035-IAV	ASE28C5E-IAV	1710	1800	1940	2130	2360	2640	2970	3350	3770
M6ZM-0038-IAA	ASE28C5E-IAA	1760	1850	2000	2190	2440	2750	3110	3530	3990
M6ZM-0038-IAV	ASE28C5E-IAV	1760	1850	2000	2190	2440	2750	3110	3530	3990
M6JM-H043-IAA	ASE39C5E-IAA		2450	2540	2760	3070	3450	3850	4250	4620
M6ZM-0048-IAA	ASE39C5E-IAA		2520	2640	2890	3250	3670	4120	4580	5000
M6ZP-0053-IAA	RST45C1E-IAA	1970	2280	2610	2960	3330	3720	4140	4590	5070
M6ZP-0053-IAV	RST45C1E-IAV	1970	2280	2610	2960	3330	3720	4140	4590	5070
M6ZM-H054-CAV	ASE39C5E-CAV	2090	2450	2830	3220	3610	3990	4370	4730	5070
M6ZP-H059-CAA	RST45C1E-CAA	2060	2370	2720	3100	3510	3950	4420	4930	5460
M6ZP-H059-CAV	RST45C1E-CAV	2060	2370	2720	3100	3510	3950	4420	4930	5460
M6GP-H064-CAA	RST45C1E-CAA	2120	2460	2830	3240	3690	4180	4720	5290	5900
M6GP-H064-CAV	RST45C1E-CAV	2120	2460	2830	3240	3690	4180	4720	5290	5900
M6KP-0064-CAA	RST45C1E-CAA	2130	2470	2840	3260	3720	4210	4760	5340	5970
M6KP-0064-CAV	RST45C1E-CAV	2130	2470	2840	3260	3720	4210	4760	5340	5970
M6GP-H074-CAA	RST55C1E-CAA	2680	3030	3440	3910	4450	5030	5660	6340	7050
M6GP-H074-CAV	RST55C1E-CAV	2680	3030	3440	3910	4450	5030	5660	6340	7050
M6KP-0075-CAA	RST55C1E-CAA	2690	3040	3460	3950	4490	5090	5740	6430	7170
M6KP-0075-CAV	RST55C1E-CAV	2690	3040	3460	3950	4490	5090	5740	6430	7170
M6ZP-H090-CFA	RST80C1E-PFA			4750	5310	5880	6460	7060	7670	
M6ZP-H090-CFV	RST80C1E-PFV			4750	5310	5880	6460	7060	7670	
M6GP-H090-CAV	RST64C1E-CAV		4020	4540	5090	5680	6310	6990	7720	8490
M6GP-H090-CFA	RST64C1E-CFA		4020	4540	5090	5680	6310	6990	7720	8490
M6KP-0095-CFV	RST70C1E-PFV	3450	4000	4580	5180	5810	6460	7140	7820	8530
M6KP-0092-CAV	RST64C1E-CAV	3550	4050	4570	5140	5740	6400	7100	7850	8660
M6KP-0092-CFA	RST64C1E-CFA	3550	4050	4570	5140	5740	6400	7100	7850	8660
M6KP-0102-CAV	RST64C1E-CAV	3800	4350	4960	5610	6340	7130	8010	8970	10000
M6KP-0102-CFA	RST64C1E-CFA	3800	4350	4960	5610	6340	7130	8010	8970	10000
M6KP-0106-CFV	RST80C1E-PFV		4660	5310	6000	6710	7460	8220	9010	9810
M6KP-0112-CFV	RST70C1E-PFV	3900	4510	5170	5870	6620	7420	8260	9140	10100
M6KP-0116-CFV	RST97C1E-PFV		5200	5890	6610	7350	8110	8870	9630	10400
M6KP-0127-CFV	RST80C1E-PFV	4480	5190	5950	6760	7630	8540	9500	10500	11500
M6KP-0142-CFV	RST97C1E-PFV	5060	5820	6630	7500	8410	9360	10300	11400	12400

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

R-449A Medium Temp/EMT

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30
100° Ambient										
M6JM-0017-IAA	ASE12C4E-IAA		712	818	930	1050	1170	1300	1440	1590
M6JM-H020-IAA	ASE12C4E-IAA		732	858	992	1130	1290	1450	1620	1800
M6ZM-0021-IAA	ASE12C4E-IAA		733	862	1000	1150	1310	1480	1660	1850
M6JM-H023-IAA	ASE14C4E-IAA		917	1060	1210	1360	1530	1710	1900	2100
M6QM-H025-IAA	ASE14C4E-IAA		919	1060	1210	1370	1540	1720	1920	2130
M6JM-H028-IAA	ASE20C4E-IAA			1430	1610	1790	1960	2150	2350	2570
M6JM-H028-IAV	ASE20C4E-IAV			1430	1610	1790	1960	2150	2350	2570
M6ZM-0031-IAA	ASE20C4E-IAA		1200	1400	1590	1770	1960	2170	2390	2630
M6ZM-0025-IAA	ASE14C4E-IAA			1450	1640	1830	2030	2240	2460	2710
M6ZM-0025-IAV	ASE20C4E-IAV			1450	1640	1830	2030	2240	2460	2710
M6ZM-H026-CAA	ASE20C4E-CAA		1210	1380	1580	1790	2030	2290	2560	2850
M6JM-H030-IAA	ASE24C5E-IAA		1310	1480	1670	1880	2110	2350	2610	2880
M6ZM-0032-IAA	ASE24C5E-IAA		1330	1510	1720	1940	2190	2450	2730	3030
M6ZM-H035-IAA	ASE24C5E-IAA		1350	1540	1750	1980	2230	2500	2790	3100
M6JM-H035-IAA	ASE28C5E-IAA			1780	1950	2170	2430	2730	3070	3450
M6JM-H035-IAV	ASE28C5E-IAV			1780	1950	2170	2430	2730	3070	3450
M6ZM-0038-IAA	ASE28C5E-IAA			1830	2020	2250	2530	2860	3240	3670
M6ZM-0038-IAV	ASE28C5E-IAV			1830	2020	2250	2530	2860	3240	3670
M6JM-H043-IAA	ASE39C5E-IAA				2510	2790	3120	3480	3840	
M6ZP-0053-IAA	RST45C1E-IAA			2370	2680	3010	3360	3730	4130	4550
M6ZP-0053-IAV	RST45C1E-IAV			2370	2680	3010	3360	3730	4130	4550
M6ZM-0048-IAA	ASE39C5E-IAA			2430	2640	2950	3340	3750	4170	4560
M6ZM-H054-CAV	ASE39C5E-CAV			2590	2940	3300	3660	4020	4360	4690
M6ZP-H059-CAA	RST45C1E-CAA			2440	2790	3160	3560	3990	4450	4940
M6ZP-H059-CAV	RST45C1E-CAV			2440	2790	3160	3560	3990	4450	4940
M6GP-H064-CAA	RST45C1E-CAA		2210	2550	2920	3330	3780	4270	4790	5360
M6GP-H064-CAV	RST45C1E-CAV		2210	2550	2920	3330	3780	4270	4790	5360
M6KP-0064-CAA	RST45C1E-CAA		2210	2560	2940	3360	3810	4310	4840	5420
M6KP-0064-CAV	RST45C1E-CAV		2210	2560	2940	3360	3810	4310	4840	5420
M6GP-H074-CAA	RST55C1E-CAA			3050	3480	3970	4510	5110	5740	6420
M6GP-H074-CAV	RST55C1E-CAV			3050	3480	3970	4510	5110	5740	6420
M6KP-0075-CAA	RST55C1E-CAA		2690	3070	3510	4010	4560	5170	5830	6520
M6KP-0075-CAV	RST55C1E-CAV		2690	3070	3510	4010	4560	5170	5830	6520
M6GP-H090-CAV	RST64C1E-CAV			4150	4660	5190	5770	6400	7060	7770
M6GP-H090-CFA	RST64C1E-CFA			4150	4660	5190	5770	6400	7060	7770
M6KP-0092-CAV	RST64C1E-CAV			4180	4700	5260	5860	6500	7190	7940
M6KP-0092-CFA	RST64C1E-CFA			4180	4700	5260	5860	6500	7190	7940
M6ZP-H090-CFA	RST80C1E-PFA					5350	5900			
M6ZP-H090-CFV	RST80C1E-PFV					5350	5900			
M6KP-0095-CFV	RST70C1E-PFV			4150	4720	5320	5930	6560	7200	7860
M6KP-0102-CAV	RST64C1E-CAV		3940	4500	5100	5770	6500	7310	8200	9180
M6KP-0102-CFA	RST64C1E-CFA		3940	4500	5100	5770	6500	7310	8200	9180
M6KP-0106-CFV	RST80C1E-PFV			4760	5400	6060	6760	7480	8220	8970
M6KP-0112-CFV	RST70C1E-PFV		3990	4610	5280	5980	6730	7520	8350	9230
M6KP-0116-CFV	RST97C1E-PFV				5990	6690	7390	8110	8810	
M6KP-0127-CFV	RST80C1E-PFV		4570	5290	6060	6880	7740	8660	9610	10600
M6KP-0142-CFV	RST97C1E-PFV		5170	5950	6770	7630	8530	9460	10400	11400

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

R-449A Medium Temp/EMT

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30
110° Ambient										
M6JM-0017-IAA	ASE12C4E-IAA				820	933	1050	1180	1300	1440
M6JM-H020-IAA	ASE12C4E-IAA			780	901	1030	1170	1310	1460	1630
M6ZM-0021-IAA	ASE12C4E-IAA			768	895	1030	1170	1330	1490	1670
M6JM-H023-IAA	ASE14C4E-IAA			964	1100	1240	1390	1560	1730	1920
M6QM-H025-IAA	ASE14C4E-IAA			955	1090	1240	1400	1560	1740	1940
M6JM-H028-IAA	ASE20C4E-IAA						1780	1920	2090	2270
M6JM-H028-IAV	ASE20C4E-IAV						1780	1920	2090	2270
M6ZM-0031-IAA	ASE20C4E-IAA				1470	1620	1780	1950	2130	2340
M6ZM-0025-IAA	ASE14C4E-IAA					1680	1840	2010	2200	2420
M6ZM-0025-IAV	ASE20C4E-IAV					1680	1840	2010	2200	2420
M6ZM-H026-CAA	ASE20C4E-CAA			1240	1410	1610	1830	2070	2320	2580
M6JM-H030-IAA	ASE24C5E-IAA				1510	1690	1890	2110	2340	2590
M6ZM-0032-IAA	ASE24C5E-IAA				1540	1750	1970	2210	2470	2750
M6ZM-H035-IAA	ASE24C5E-IAA			1380	1570	1780	2010	2250	2520	2810
M6JM-H035-IAA	ASE28C5E-IAA				1780	1980	2210	2480		
M6JM-H035-IAV	ASE28C5E-IAV				1780	1980	2210	2480		
M6ZM-0038-IAA	ASE28C5E-IAA				1840	2060	2320	2620	2960	3350
M6ZM-0038-IAV	ASE28C5E-IAV				1840	2060	2320	2620	2960	3350
M6JM-H043-IAA	ASE39C5E-IAA					2480				
M6ZP-0053-IAA	RST45C1E-IAA					2660	2960	3290		
M6ZP-0053-IAV	RST45C1E-IAV					2660	2960	3290		
M6ZM-0048-IAA	ASE39C5E-IAA				2390	2660	2990	3370		
M6ZP-H059-CAA	RST45C1E-CAA				2480	2820	3180	3570	3980	
M6ZP-H059-CAV	RST45C1E-CAV				2480	2820	3180	3570	3980	
M6ZM-H054-CAV	ASE39C5E-CAV				2690	3020	3370	3710	4040	
M6GP-H064-CAA	RST45C1E-CAA				2610	2980	3390	3830	4310	4820
M6GP-H064-CAV	RST45C1E-CAV				2610	2980	3390	3830	4310	4820
M6KP-0064-CAA	RST45C1E-CAA				2620	3000	3420	3870	4360	4890
M6KP-0064-CAV	RST45C1E-CAV				2620	3000	3420	3870	4360	4890
M6GP-H074-CAA	RST55C1E-CAA				3090	3540	4050	4600	5200	5850
M6GP-H074-CAV	RST55C1E-CAV				3090	3540	4050	4600	5200	5850
M6KP-0075-CAA	RST55C1E-CAA				3110	3570	4090	4660	5270	5930
M6KP-0075-CAV	RST55C1E-CAV				3110	3570	4090	4660	5270	5930
M6GP-H090-CAV	RST64C1E-CAV					4720	5240	5810		
M6GP-H090-CFA	RST64C1E-CFA					4720	5240	5810		
M6KP-0092-CAV	RST64C1E-CAV					4780	5330	5910		
M6KP-0092-CFA	RST64C1E-CFA					4780	5330	5910		
M6KP-0095-CFV	RST70C1E-PFV				4250	4820	5390	5980	6580	
M6KP-0102-CAV	RST64C1E-CAV			4120	4680	5290	5950	6690	7500	8400
M6KP-0102-CFA	RST64C1E-CFA			4120	4680	5290	5950	6690	7500	8400
M6KP-0106-CFV	RST80C1E-PFV					5430	6080			
M6KP-0112-CFV	RST70C1E-PFV			4140	4760	5420	6120	6850	7620	8430
M6KP-0116-CFV	RST97C1E-PFV					6030				
M6KP-0127-CFV	RST80C1E-PFV			4730	5440	6200	7010	7850	8740	9660
M6KP-0142-CFV	RST97C1E-PFV				6120	6930	7760	8620	9500	10400

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

R-450A Medium Temp/EMT

Copeland air-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0	5	10	15	20	25	30
90° Ambient													
M7JM-0019-IAA	AFE05C4E-IAA	406	487	574	669	771	883	1000	1140	1280	1430		
M7JM-H020-IAA	AFE05C4E-IAA	424	509	601	702	810	929	1060	1200	1350	1510		
M7JP-0020-IAA	AFF07C1E-IAA	451	531	617	709	808	916	1030	1160	1300	1440	1600	
M7ZP-0021-IAA	AFE05C4E-IAA	428	515	609	711	821	942	1070	1210	1370	1540		
M7JP-0029-IAA	AFF10C1E-IAA	682	807	939	1080	1230	1390	1560	1750	1940	2150	2370	
M7JP-0031-IAA	AFF13C1E-IAA	790	934	1090	1250	1420	1600	1790	2000	2210	2440	2680	
M7JL-0034-IAA	AFE12C4E-IAA	871	1010	1160	1340	1530	1730	1940	2160	2380	2600		
M7JM-H036-IAA	AFE12C4E-IAA	920	1070	1240	1430	1650	1880	2130	2390	2670	2960		
M7ZP-0041-IAA	AFE12C4E-IAA	935	1090	1260	1460	1690	1930	2190	2470	2760	3070		
M7ZM-0043-IAA	AFE13C5E-IAA	949	1110	1300	1510	1740	1980	2250	2540	2840	3150		
M7ZP-H062-CFA	RFT18C1E-PFA	1360	1670	2000	2330	2670	3030	3390	3760	4150	4540	4950	5360
M7GP-H066-CFA	RFT18C1E-PFA	1400	1720	2060	2410	2770	3140	3530	3930	4350	4780	5220	5680
100° Ambient													
M7JM-0019-IAA	AFE05C4E-IAA	365	439	520	608	705	811	927	1050	1190	1340		
M7JM-H020-IAA	AFE05C4E-IAA	382	461	547	641	744	858	981	1120	1260	1420		
M7ZP-0021-IAA	AFE05C4E-IAA	387	467	555	651	756	872	998	1140	1290	1450		
M7JP-0020-IAA	AFF07C1E-IAA	414	493	576	664	758	859	969	1090	1210	1350	1500	
M7JP-0029-IAA	AFF10C1E-IAA	621	743	870	1000	1150	1300	1460	1630	1810	2000	2200	
M7JP-0031-IAA	AFF13C1E-IAA	717	858	1000	1160	1320	1490	1670	1850	2050	2260	2480	
M7JL-0034-IAA	AFE12C4E-IAA	809	933	1080	1230	1410	1590	1780	1970	2170			
M7JM-H036-IAA	AFE12C4E-IAA	851	989	1150	1330	1530	1750	1980	2220	2480	2740		
M7ZP-0041-IAA	AFE12C4E-IAA	865	1010	1170	1360	1570	1800	2040	2300	2580	2860		
M7ZM-0043-IAA	AFE13C5E-IAA	873	1030	1200	1400	1610	1840	2090	2360	2640	2930		
M7ZP-H062-CFA	RFT18C1E-PFA	1160	1470	1780	2110	2440	2780	3130	3490	3850	4230	4610	5010
M7GP-H066-CFA	RFT18C1E-PFA	1210	1530	1860	2190	2540	2900	3270	3650	4040	4450	4870	5300
110° Ambient													
M7JM-0019-IAA	AFE05C4E-IAA	321	388	462	544	634	734	844	965	1100	1240		
M7JM-H020-IAA	AFE05C4E-IAA	336	407	486	574	672	780	899	1030	1170	1330		
M7ZP-0021-IAA	AFE05C4E-IAA	343	417	498	587	687	797	918	1050	1200	1360		
M7JP-0020-IAA	AFF07C1E-IAA	375	453	533	618	707	802	903	1010	1130	1260	1390	
M7JP-0029-IAA	AFF10C1E-IAA		673	795	922	1050	1190	1340	1500	1670			
M7JP-0031-IAA	AFF13C1E-IAA		774	914	1060	1210	1370	1530	1700				
M7JL-0034-IAA	AFE12C4E-IAA			984	1120	1280	1440						
M7JM-H036-IAA	AFE12C4E-IAA		912	1060	1220	1400	1600	1810	2040	2270	2510		
M7ZP-0041-IAA	AFE12C4E-IAA	801	931	1080	1250	1450	1660	1880	2120	2370	2640		
M7ZM-0043-IAA	AFE13C5E-IAA	798	942	1110	1290	1490	1710	1940	2180	2440	2710		
M7ZP-H062-CFA	RFT18C1E-PFA			1550	1870	2190	2530	2870	3220	3570	3940	4320	
M7GP-H066-CFA	RFT18C1E-PFA			1620	1950	2290	2640	3000	3370	3750	4130	4540	4950

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

R-450A High Temp

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30	35	40	45
90° Ambient													
M7JH-0012-IAA	ARE13C4E-IAA			528	608	695	791	894	1010	1130	1260	1400	1550
M7JH-H012-IAA	ARE13C4E-IAA			550	635	727	828	939	1060	1190	1340	1490	1660
M7ZH-0013-IAA	ARE13C4E-IAA			556	642	736	839	952	1080	1210	1360	1520	1690
M7JH-0014-IAA	ARE17C4E-IAA			654	749	851	961	1080	1210	1350	1500	1650	1820
M7JH-H015-IAA	ARE17C4E-IAA			682	782	890	1010	1140	1280	1430	1590	1770	1950
M7ZH-0016-IAA	ARE17C4E-IAA			689	791	902	1020	1160	1300	1450	1620	1800	2000
M7JH-0018-IAA	ARE25C4E-IAA			895	1020	1150	1290	1450	1610	1790	1980	2180	2390
M7JH-H020-IAA	ARE25C4E-IAA			939	1070	1220	1370	1540	1730	1920	2130	2360	2600
M7JH-0021-IAA	ARE29C4E-IAA			1080	1200	1340	1500	1670	1850	2040	2250	2450	2660
M7JH-H024-IAA	ARE29C4E-IAA			1140	1270	1430	1610	1800	2020	2240	2480	2730	3000
M7JH-0026-IAA	ARE35C5E-IAA			1190	1350	1530	1720	1920	2140	2360	2600	2850	3110
M7JH-H029-IAA	ARE35C5E-IAA			1270	1440	1640	1850	2070	2320	2580	2860	3160	3470
M7ZH-0031-IAA	ARE35C5E-IAA			1290	1470	1670	1890	2130	2380	2660	2950	3260	3590
M7JH-H038-IAA	ARE48C5E-IAA			1690	1940	2190	2470	2750	3060	3370	3710	4050	4410
M7JH-H038-IAV	ARE48C5E-IAV			1690	1940	2190	2470	2750	3060	3370	3710	4050	4410
M7ZH-0041-IAA	ARE48C5E-IAA			1730	1980	2250	2540	2840	3170	3510	3870	4250	4640
M7ZH-0041-IAV	ARE48C5E-IAV			1730	1980	2250	2540	2840	3170	3510	3870	4250	4640
M7JH-H042-IAA	ARE54C5E-IAA			1890	2160	2450	2750	3070	3400	3740	4100	4460	4840
M7ZH-0045-IAA	ARE54C5E-IAA			1940	2220	2520	2840	3180	3540	3910	4300	4710	5130
M7ZH-0045-IAV	ARE54C5E-IAV			1940	2220	2520	2840	3180	3540	3910	4300	4710	5130
M7ZH-H046-IAV	RRT62C1E-IAV		1880	2120	2400	2710	3050	3410	3790	4190	4600	5020	5460
M7ZH-H046-IAA	RRT62C1E-IAA		1830	2120	2420	2740	3080	3430	3800	4190	4600	5040	5490
M7ZH-0051-IAV	RRT64C1E-IAV		2130	2410	2730	3070	3430	3820	4230	4660	5110	5570	6050
M7ZH-0051-IAA	RRT64C1E-IAA		2210	2500	2820	3180	3560	3970	4390	4820	5260	5700	6140
M7ZH-H055-CAV	RRT64C1E-CAV		2220	2520	2850	3210	3600	4020	4450	4910	5390	5890	6400
M7ZH-H055-CAA	RRT64C1E-CAA		2260	2560	2890	3260	3660	4080	4530	4980	5450	5920	6390
M7GH-H057-CAV	RRT64C1E-CAV	2040	2310	2630	2980	3360	3780	4230	4700	5200	5730	6280	6850
M7GH-H057-CAA	RRT64C1E-CAA	2060	2330	2630	2980	3370	3800	4260	4740	5250	5780	6320	6880
M7KH-0060-CAV	RRT64C1E-CAV	2050	2330	2650	3000	3390	3810	4260	4740	5250	5790	6350	6930
M7KH-0060-CAA	RRT64C1E-CAA	2070	2330	2640	3000	3390	3820	4280	4780	5300	5840	6390	6960
M7KH-0064-CAA	RRT73C1E-CAA	2250	2540	2880	3260	3670	4120	4590	5090	5610	6150	6710	7280
M7KH-0064-CAV	RRT73C1E-CAV	2160	2540	2930	3360	3800	4270	4760	5290	5840	6420	7030	7670
M7ZH-0062-CFV	RRT81C1E-PFV			2830	3230	3690	4210	4770	5350	5960	6570	7170	7770
M7ZH-0062-CFA	RRT81C1E-PFA			3030	3460	3920	4400	4900	5430	5970	6530	7090	7660
M7ZH-H067-CFV	RRT81C1E-PFV		2590	2910	3330	3810	4350	4920	5530	6140	6760	7370	7970
M7ZH-H067-CFA	RRT81C1E-PFA		2700	3100	3540	4010	4510	5030	5570	6130	6710	7290	7880
M7KH-0075-CFA	RRT81C1E-PFA		2840	3270	3750	4260	4810	5390	6010	6650	7320	8020	8730
M7KH-0075-CFV	RRT81C1E-PFV		2730	3100	3570	4120	4730	5380	6050	6740	7430	8110	8770
M7ZH-0070-CFV	RRT10K1E-PFV				4120	4600	5090	5580	6080	6580	7090		
M7ZH-0070-CFA	RRT10K1E-PFA			3560	4040	4530	5050	5580	6120	6680	7230		
M7ZH-H076-CFV	RRT10K1E-PFV			3730	4230	4730	5230	5740	6260	6780	7310	7860	
M7ZH-H076-CFA	RRT10K1E-PFA			3650	4140	4650	5180	5730	6300	6870	7450	8030	
M7KH-0083-CFA	RRT81C1E-PFA	2590	3020	3500	4020	4600	5220	5890	6610	7370	8170	9020	9900
M7KH-0083-CFV	RRT81C1E-PFV	2610	2920	3370	3920	4560	5260	6000	6770	7550	8310	9050	9730
M7KH-0086-CFA	RRT10K1E-PFA		3370	3870	4410	4980	5580	6210	6860	7540	8230	8940	9660
M7KH-0086-CFV	RRT10K1E-PFV		3430	3970	4520	5080	5650	6250	6860	7500	8160	8850	9560
M7KH-0096-CFA	RRT10K1E-PFA	3090	3600	4160	4770	5420	6120	6860	7630	8440	9290	10200	11100
M7KH-0096-CFV	RRT10K1E-PFV	3110	3690	4290	4900	5550	6230	6950	7710	8520	9380	10300	11300

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

R-450A High Temp

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30	35	40	45
100° Ambient													
M7JH-0012-IAA	ARE13C4E-IAA			484	558	640	728	824	928	1040	1160	1290	1430
M7JH-H012-IAA	ARE13C4E-IAA			505	584	671	766	869	982	1110	1240	1380	1540
M7ZH-0013-IAA	ARE13C4E-IAA			511	591	680	777	883	999	1130	1260	1410	1580
M7JH-0014-IAA	ARE17C4E-IAA			604	692	788	891	1000	1120	1250	1390	1540	1690
M7JH-H015-IAA	ARE17C4E-IAA			632	725	827	939	1060	1190	1330	1490	1650	1830
M7ZH-0016-IAA	ARE17C4E-IAA			639	735	839	953	1080	1210	1360	1520	1690	1870
M7JH-0018-IAA	ARE25C4E-IAA			827	938	1060	1190	1330	1490	1650	1830	2010	2210
M7JH-H020-IAA	ARE25C4E-IAA			871	994	1130	1280	1440	1610	1800	2000	2210	2440
M7JH-0021-IAA	ARE29C4E-IAA			1010	1120	1240	1380	1540	1700	1880	2060	2240	2440
M7JH-H024-IAA	ARE29C4E-IAA			1060	1180	1330	1490	1670	1860	2070	2300	2530	2770
M7JH-0026-IAA	ARE35C5E-IAA			1100	1250	1420	1600	1790	1990	2200	2430		
M7JH-H029-IAA	ARE35C5E-IAA			1180	1340	1520	1720	1940	2170	2420	2690	2960	3260
M7ZH-0031-IAA	ARE35C5E-IAA			1200	1370	1560	1770	1990	2230	2500	2770	3070	3380
M7JH-H038-IAA	ARE48C5E-IAA			1590	1820	2050	2310	2570	2850	3140	3450	3770	4090
M7JH-H038-IAV	ARE48C5E-IAV			1590	1820	2050	2310	2570	2850	3140	3450	3770	4090
M7ZH-0041-IAA	ARE48C5E-IAA			1620	1860	2110	2380	2660	2960	3280	3620	3970	4340
M7ZH-0041-IAV	ARE48C5E-IAV			1620	1860	2110	2380	2660	2960	3280	3620	3970	4340
M7JH-H042-IAA	ARE54C5E-IAA			1750	2010	2280	2570	2860	3170	3490	3810	4150	
M7ZH-0045-IAA	ARE54C5E-IAA			1800	2070	2360	2660	2980	3310	3660	4020	4400	4790
M7ZH-0045-IAV	ARE54C5E-IAV			1800	2070	2360	2660	2980	3310	3660	4020	4400	4790
M7ZH-H046-IAA	RRT62C1E-IAA			1930	2210	2500	2810	3130	3480	3840	4230	4630	5060
M7ZH-H046-IAV	RRT62C1E-IAV			1960	2210	2500	2810	3140	3490	3860	4250	4650	5050
M7ZH-0051-IAV	RRT64C1E-IAV				2500	2820	3160	3520	3910	4310	4730	5170	5610
M7ZH-0051-IAA	RRT64C1E-IAA				2590	2930	3290	3660	4040	4430	4820	5210	5600
M7ZH-H055-CAV	RRT64C1E-CAV			2270	2590	2930	3300	3700	4120	4560	5020	5490	5990
M7ZH-H055-CAA	RRT64C1E-CAA			2350	2670	3020	3390	3780	4180	4600	5020	5440	5850
M7GH-H057-CAV	RRT64C1E-CAV			2370	2700	3070	3460	3890	4340	4820	5320	5840	6380
M7KH-0060-CAV	RRT64C1E-CAV			2380	2720	3090	3490	3920	4380	4860	5370	5900	6460
M7GH-H057-CAA	RRT64C1E-CAA			2430	2770	3140	3540	3970	4420	4890	5370	5860	6360
M7KH-0060-CAA	RRT64C1E-CAA			2440	2780	3160	3560	4000	4450	4930	5430	5930	6450
M7KH-0064-CAA	RRT73C1E-CAA			2690	3040	3420	3840	4280	4750	5240	5750	6280	6820
M7ZH-0062-CFV	RRT81C1E-PFV				2860	3280	3760	4290	4850	5430	6030		
M7KH-0064-CAV	RRT73C1E-CAV			2640	3050	3470	3920	4390	4880	5400	5950	6520	7120
M7ZH-0062-CFA	RRT81C1E-PFA				3140	3570	4030	4500	4990	5500	6020		
M7ZH-H067-CFV	RRT81C1E-PFV				2940	3380	3880	4430	5000	5600	6210		
M7ZH-H067-CFA	RRT81C1E-PFA				3220	3660	4130	4620	5130	5650	6190		
M7KH-0075-CFV	RRT81C1E-PFV			2750	3160	3660	4230	4850	5500	6180	6860	7540	8200
M7KH-0075-CFA	RRT81C1E-PFA			2960	3420	3900	4420	4980	5560	6160	6790	7440	8110
M7ZH-0070-CFV	RRT10K1E-PFV					4210	4660	5120	5570				
M7ZH-0070-CFA	RRT10K1E-PFA					4140	4620	5110	5620				
M7ZH-H076-CFV	RRT10K1E-PFV					4330	4800	5270	5740	6220			
M7ZH-H076-CFA	RRT10K1E-PFA					4250	4750	5260	5790	6320			
M7KH-0083-CFA	RRT81C1E-PFA		2710	3170	3670	4220	4810	5450	6120	6850	7610	8410	9240
M7KH-0083-CFV	RRT81C1E-PFV		2600	2970	3460	4050	4720	5440	6200	6980	7750	8510	9230
M7KH-0086-CFV	RRT10K1E-PFV				4140	4670	5210	5760	6330	6910	7520	8160	8810
M7KH-0086-CFA	RRT10K1E-PFA			3540	4040	4580	5150	5740	6360	7000	7650	8320	9000
M7KH-0096-CFA	RRT10K1E-PFA		3280	3810	4390	5010	5670	6370	7100	7880	8680	9520	10400
M7KH-0096-CFV	RRT10K1E-PFV		3350	3920	4510	5120	5760	6430	7130	7880	8680	9530	10400

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

R-450A High Temp

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30	35	40	45
110° Ambient													
M7JH-0012-IAA	ARE13C4E-IAA				508	583	663	750	845	947	1060	1180	1300
M7JH-H012-IAA	ARE13C4E-IAA			457	531	611	698	794	899	1010	1140	1270	1420
M7ZH-0013-IAA	ARE13C4E-IAA			466	541	623	712	811	918	1040	1160	1300	1450
M7JH-0014-IAA	ARE17C4E-IAA				633	722	817	921	1030	1150	1280	1420	1560
M7JH-H015-IAA	ARE17C4E-IAA			577	664	760	864	977	1100	1230	1380	1530	1700
M7ZH-0016-IAA	ARE17C4E-IAA			588	677	775	881	998	1120	1260	1410	1570	1740
M7JH-0018-IAA	ARE25C4E-IAA					960	1080	1210	1340	1490	1660	1830	
M7JH-H020-IAA	ARE25C4E-IAA			797	909	1030	1170	1320	1480	1650	1840	2050	2270
M7JH-0021-IAA	ARE29C4E-IAA							1400	1550	1700			
M7JH-H024-IAA	ARE29C4E-IAA				1090	1220	1370	1540	1710	1900	2110	2320	2540
M7JH-H029-IAA	ARE35C5E-IAA				1240	1410	1600	1800	2020	2260	2510	2770	3050
M7ZH-0031-IAA	ARE35C5E-IAA			1110	1270	1450	1640	1850	2080	2330	2590	2870	3170
M7JH-H038-IAA	ARE48C5E-IAA						2150	2390	2640	2910			
M7JH-H038-IAV	ARE48C5E-IAV						2150	2390	2640	2910			
M7ZH-0041-IAA	ARE48C5E-IAA				1740	1970	2220	2480	2750	3050	3350	3680	4010
M7ZH-0041-IAV	ARE48C5E-IAV				1740	1970	2220	2480	2750	3050	3350	3680	4010
M7JH-H042-IAA	ARE54C5E-IAA								2930				
M7ZH-0045-IAA	ARE54C5E-IAA				2190	2480	2770	3080	3400	3730			
M7ZH-0045-IAV	ARE54C5E-IAV				2190	2480	2770	3080	3400	3730			
M7ZH-H046-IAA	RRT62C1E-IAA				2280	2570	2870	3180	3520	3880	4270		
M7ZH-H046-IAV	RRT62C1E-IAV				2290	2580	2880	3210	3560	3910	4280		
M7ZH-0051-IAV	RRT64C1E-IAV				2570	2890	3230	3590	3970				
M7ZH-0051-IAA	RRT64C1E-IAA				2650	2980	3320	3670					
M7ZH-H055-CAA	RRT64C1E-CAA				2740	3090	3440	3810	4180	4560			
M7ZH-H055-CAV	RRT64C1E-CAV				2690	3050	3430	3840	4260	4710			
M7GH-H057-CAV	RRT64C1E-CAV				2450	2800	3180	3580	4010	4470	4940	5440	5960
M7KH-0060-CAV	RRT64C1E-CAV				2470	2820	3200	3610	4040	4500	4990	5490	6020
M7GH-H057-CAA	RRT64C1E-CAA				2530	2880	3250	3640	4060	4480	4920	5360	5810
M7KH-0060-CAA	RRT64C1E-CAA				2540	2900	3270	3670	4090	4530	4980	5430	5900
M7KH-0064-CAA	RRT73C1E-CAA				2790	3160	3550	3970	4420	4890	5380	5890	6420
M7KH-0064-CAV	RRT73C1E-CAV				2770	3170	3590	4030	4490	4970	5480	6010	6570
M7ZH-H067-CFV	RRT81C1E-PFV				2990	3440	3960	4510					
M7ZH-H067-CFA	RRT81C1E-PFA				3330	3760	4220	4690					
M7KH-0075-CFV	RRT81C1E-PFV			2780	3220	3740	4330	4950	5610	6280	6950		
M7KH-0075-CFA	RRT81C1E-PFA				3550	4030	4550	5090	5660	6250	6860		
M7KH-0083-CFV	RRT81C1E-PFV			3030	3560	4180	4860	5600	6360	7130	7890	8630	
M7KH-0083-CFA	RRT81C1E-PFA			3320	3840	4390	4990	5630	6310	7020	7780	8560	
M7KH-0086-CFV	RRT10K1E-PFV				4250	4750	5260	5780	6320	6880			
M7KH-0086-CFA	RRT10K1E-PFA				4160	4690	5250	5830	6430				
M7KH-0096-CFV	RRT10K1E-PFV			4110	4680	5270	5890	6540	7230	7960	8730	9560	
M7KH-0096-CFA	RRT10K1E-PFA			3990	4570	5200	5860	6550	7290	8050	8840	9660	
M7ZH-0062-CFA	RRT81C1E-PFA						3670	4110					
M7ZH-0062-CFV	RRT81C1E-PFV				2900	3340	3840						
M7ZH-H076-CFA	RRT10K1E-PFA						4310						
M7ZH-H076-CFV	RRT10K1E-PFV						4370						

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

R-513A High Temp

Copeland air-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0	5	10	15	20	25	30
90° Ambient													
M7JM-0019-IAA	AFE05C4E-IAA	478	576	681	795	918	1050	1200	1350	1520	1710		
M7JM-H020-IAA	AFE05C4E-IAA	504	609	723	845	978	1120	1280	1450	1630	1830		
M7JP-0020-IAA	AFF07C1E-IAA	577	668	767	874	990	1110	1250	1390	1540	1690	1860	
M7ZP-0021-IAA	AFE05C4E-IAA	551	662	781	911	1050	1200	1370	1550	1750	1960		
M7JP-0029-IAA	AFF10C1E-IAA	864	1000	1150	1310	1480	1660	1850	2050	2250	2460	2680	
M7JP-0031-IAA	AFF13C1E-IAA	994	1150	1320	1500	1690	1890	2100	2310	2530	2760	3000	
M7JL-0034-IAA	AFE12C4E-IAA	1010	1170	1350	1550	1760	1990	2220	2450	2680	2900		
M7JM-H036-IAA	AFE12C4E-IAA	1080	1260	1470	1700	1950	2220	2520	2820	3140	3460		
M7ZP-0041-IAA	AFE12C4E-IAA	1110	1290	1510	1750	2010	2300	2610	2940	3290	3650		
M7ZM-0043-IAA	AFE13C5E-IAA	1130	1320	1550	1800	2080	2370	2690	3030	3380	3740		
M7ZP-H062-CFA	RFT18C1E-PFA	1740	2150	2560	2970	3400	3840	4290	4750	5210	5690	6180	6670
M7GP-H066-CFA	RFT18C1E-PFA	1810	2230	2660	3100	3560	4030	4510	5010	5530	6050	6590	7150
100° Ambient													
M7JM-0019-IAA	AFE05C4E-IAA	425	513	610	715	830	957	1090	1240	1410	1580		
M7JM-H020-IAA	AFE05C4E-IAA	450	546	651	766	891	1030	1180	1340	1520	1720		
M7JP-0020-IAA	AFF07C1E-IAA	533	618	711	811	919	1030	1160	1290	1430	1570	1720	
M7ZP-0021-IAA	AFE05C4E-IAA	498	601	712	835	968	1110	1280	1450	1640	1850		
M7JP-0029-IAA	AFF10C1E-IAA	787	917	1060	1200	1360	1530	1700	1880	2070	2270	2470	
M7JP-0031-IAA	AFF13C1E-IAA	903	1050	1210	1370	1550	1730	1920	2120	2320			
M7JL-0034-IAA	AFE12C4E-IAA	934	1080	1240	1410	1610	1800	2010	2210				
M7JM-H036-IAA	AFE12C4E-IAA	997	1160	1350	1560	1800	2050	2320	2600	2890	3180		
M7ZP-0041-IAA	AFE12C4E-IAA	1020	1190	1390	1610	1860	2130	2420	2730	3040	3370		
M7ZM-0043-IAA	AFE13C5E-IAA	1030	1220	1430	1660	1920	2190	2490	2800	3130	3470		
M7ZP-H062-CFA	RFT18C1E-PFA	1480	1880	2280	2680	3100	3520	3960	4400	4850	5320	5790	6280
M7GP-H066-CFA	RFT18C1E-PFA	1560	1970	2390	2820	3260	3710	4180	4660	5140	5650	6160	6700
110° Ambient													
M7JM-0019-IAA	AFE05C4E-IAA	368	447	534	630	737	855	985	1130	1280	1450		
M7JM-H020-IAA	AFE05C4E-IAA	391	477	573	679	797	927	1070	1230	1400	1590		
M7JP-0020-IAA	AFF07C1E-IAA		565	651	744	843	950	1060	1180	1310	1450	1590	
M7ZP-0021-IAA	AFE05C4E-IAA	444	538	641	755	881	1020	1170	1340	1530	1730		
M7JP-0029-IAA	AFF10C1E-IAA			951	1090	1230	1380	1540	1710				
M7JP-0031-IAA	AFF13C1E-IAA			1080	1230	1390	1560	1740					
M7JL-0034-IAA	AFE12C4E-IAA			1120	1270	1440							
M7JM-H036-IAA	AFE12C4E-IAA		1060	1230	1420	1640	1860	2100	2360	2610	2880		
M7ZP-0041-IAA	AFE12C4E-IAA	940	1090	1270	1480	1700	1950	2210	2490	2780	3080		
M7ZM-0043-IAA	AFE13C5E-IAA	934	1110	1300	1520	1760	2020	2290	2580	2880	3190		
M7ZP-H062-CFA	RFT18C1E-PFA				2370	2780	3210	3640	4080	4530			
M7GP-H066-CFA	RFT18C1E-PFA			2080	2510	2940	3390	3840	4310	4780	5270	5770	6290

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

Model	Compressor	-10	-5	0	5	10	15	20	25	30	35	40	45
90° Ambient													
M7JH-0012-IAA	ARE13C4E-IAA			669	760	858	963	1080	1200	1330	1470	1620	1770
M7JH-H012-IAA	ARE13C4E-IAA			701	799	905	1020	1150	1280	1430	1590	1760	1950
M7ZH-0013-IAA	ARE13C4E-IAA			710	810	920	1040	1170	1310	1470	1630	1810	2010
M7JH-0014-IAA	ARE17C4E-IAA			829	934	1050	1170	1300	1430	1580	1730	1900	2070
M7JH-H015-IAA	ARE17C4E-IAA			869	984	1110	1240	1390	1540	1710	1890	2080	2280
M7ZH-0016-IAA	ARE17C4E-IAA			880	999	1130	1270	1420	1580	1750	1940	2140	2360
M7JH-0018-IAA	ARE25C4E-IAA			1130	1260	1400	1550	1710	1890	2070	2260	2460	2670
M7JH-H020-IAA	ARE25C4E-IAA			1190	1350	1510	1680	1870	2070	2290	2510	2760	3020
M7JH-0021-IAA	ARE29C4E-IAA			1350	1480	1630	1790	1960	2140	2330	2530	2730	2940
M7JH-H024-IAA	ARE29C4E-IAA			1440	1600	1770	1960	2170	2400	2640	2890	3160	3430
M7JH-0026-IAA	ARE35C5E-IAA			1450	1640	1840	2060	2280	2500	2730	2950	3170	3380
M7JH-H029-IAA	ARE35C5E-IAA			1560	1770	2010	2260	2530	2810	3100	3400	3710	4020
M7ZH-0031-IAA	ARE35C5E-IAA			1600	1820	2060	2330	2610	2910	3230	3550	3890	4230
M7JH-H034-IAV	ARE42C5E-IAV			1780	2010	2260	2520	2800	3090	3390			
M7ZH-0037-IAV	ARE42C5E-IAV			1830	2070	2340	2620	2920	3240	3570			
M7JH-H038-IAA	ARE48C5E-IAA			2140	2380	2650	2940	3250	3570	3910	4250	4590	4940
M7JH-H038-IAV	ARE48C5E-IAV			2140	2380	2650	2940	3250	3570	3910	4250	4590	4940
M7ZH-0041-IAA	ARE48C5E-IAA			2200	2450	2740	3060	3390	3750	4120	4510	4900	5300
M7ZH-0041-IAV	ARE48C5E-IAV			2200	2450	2740	3060	3390	3750	4120	4510	4900	5300
M7JH-H042-IAA	ARE54C5E-IAA			2300	2630	2970	3320	3670	4020	4370	4710	5030	5340
M7JH-H042-IAV	ARE54C5E-IAV			2300	2630	2970	3320	3670	4020	4370	4710	5030	5340
M7ZH-0045-IAA	ARE54C5E-IAA			2380	2730	3090	3470	3850	4250	4650	5050	5450	5840
M7ZH-0045-IAV	ARE54C5E-IAV			2380	2730	3090	3470	3850	4250	4650	5050	5450	5840
M7ZH-H046-IAA	RRT62C1E-IAA		2290	2570	2880	3230	3610	4020	4440	4870	5310	5750	6190
M7ZH-H046-IAV	RRT62C1E-IAV		2290	2570	2880	3230	3610	4020	4440	4870	5310	5750	6190
M7ZH-0051-IAV	RRT64C1E-IAV			2900	3250	3630	4030	4460	4900	5360	5830	6290	6760
M7ZH-0051-IAA	RRT64C1E-IAA		2560	2910	3300	3710	4140	4580	5020	5470	5920	6350	6770
M7ZH-H055-CAA	RRT64C1E-CAA		2690	3030	3400	3800	4230	4690	5160	5650	6150	6650	7150
M7ZH-0055-CAV	RRT64C1E-CAV		2690	3030	3400	3800	4230	4690	5160	5650	6150	6650	7150
M7GH-H057-CAA	RRT64C1E-CAA	2330	2630	2980	3370	3790	4250	4740	5250	5780			
M7GH-H057-CAV	RRT64C1E-CAV	2330	2630	2980	3370	3790	4250	4740	5250	5780			
M7KH-0060-CAA	RRT64C1E-CAA	2470	2800	3160	3570	4020	4500	5010	5550	6120	6700	7300	7910
M7KH-0060-CAV	RRT64C1E-CAV	2470	2800	3160	3570	4020	4500	5010	5550	6120	6700	7300	7910
M7ZH-0062-CFA	RRT81C1E-PFA			3200	3610	4110	4680	5310	5980	6680	7380	8090	
M7ZH-0062-CFV	RRT81C1E-PFV			3200	3610	4110	4680	5310	5980	6680	7380	8090	
M7KH-0064-CAA	RRT73C1E-CAA		3040	3510	3990	4500	5040	5590	6170	6780	7400	8050	8710
M7KH-0064-CAV	RRT73C1E-CAV		3040	3510	3990	4500	5040	5590	6170	6780	7400	8050	8710
M7ZH-H067-CFA	RRT81C1E-PFA		3000	3300	3730	4250	4850	5500	6180	6880	7600	8310	
M7ZH-H067-CFV	RRT81C1E-PFV		3000	3300	3730	4250	4850	5500	6180	6880	7600	8310	
M7ZH-0070-CFA	RRT10K1E-PFA				4610	5130	5670	6230	6790	7360			
M7ZH-0070-CFV	RRT10K1E-PFV				4610	5130	5670	6230	6790	7360			
M7KH-0075-CFA	RRT81C1E-PFA		3180	3550	4050	4660	5340	6080	6850	7650	8450	9240	9990
M7KH-0075-CFV	RRT81C1E-PFV		3180	3550	4050	4660	5340	6080	6850	7650	8450	9240	9990
M7ZH-H076-CFA	RRT10K1E-PFA			4220	4740	5280	5840	6410	6990	7580	8180		
M7ZH-H076-CFV	RRT10K1E-PFV			4220	4740	5280	5840	6410	6990	7580	8180		
M7KH-0083-CFA	RRT81C1E-PFA	3020	3280	3730	4330	5040	5840	6690	7570	8450			
M7KH-0083-CFV	RRT81C1E-PFV	3020	3280	3730	4330	5040	5840	6690	7570	8450			
M7KH-0086-CFA	RRT10K1E-PFA		3980	4520	5110	5730	6370	7050	7760	8490	9240	10000	10800
M7KH-0086-CFV	RRT10K1E-PFV		3980	4520	5110	5730	6370	7050	7760	8490	9240	10000	10800
M7KH-0096-CFA	RRT10K1E-PFA	3590	4150	4760	5420	6130	6890	7700	8570	9480			
M7KH-0096-CFV	RRT10K1E-PFV	3590	4150	4760	5420	6130	6890	7700	8570	9480			

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

Model	Compressor	-10	-5	0	5	10	15	20	25	30	35	40	45
100° Ambient													
M7JH-0012-IAA	ARE13C4E-IAA			612	695	784	880	983	1090	1210	1340	1470	1620
M7JH-H012-IAA	ARE13C4E-IAA			646	736	834	940	1060	1180	1310	1460	1620	1790
M7ZH-0013-IAA	ARE13C4E-IAA			657	749	850	960	1080	1210	1350	1500	1670	1850
M7JH-0014-IAA	ARE17C4E-IAA			761	858	962	1070	1190	1320	1450	1600	1750	1910
M7JH-H015-IAA	ARE17C4E-IAA			806	912	1030	1150	1280	1430	1580	1750	1920	2110
M7ZH-0016-IAA	ARE17C4E-IAA			821	930	1050	1180	1320	1470	1630	1800	1990	2190
M7JH-0018-IAA	ARE25C4E-IAA			1030	1150	1280	1420	1560	1720	1890	2060	2250	2450
M7JH-H020-IAA	ARE25C4E-IAA			1110	1240	1390	1550	1730	1910	2110	2330	2560	2800
M7JH-0021-IAA	ARE29C4E-IAA				1370	1500	1640	1790	1960	2130	2310	2500	
M7JH-H024-IAA	ARE29C4E-IAA			1340	1480	1630	1810	2000	2200	2420	2650	2890	3140
M7JH-0026-IAA	ARE35C5E-IAA					1690	1890	2080	2280	2480			
M7JH-H029-IAA	ARE35C5E-IAA			1440	1640	1860	2100	2340	2600	2870	3140	3420	3700
M7ZH-0031-IAA	ARE35C5E-IAA			1480	1690	1920	2170	2430	2710	3000	3300	3610	3920
M7JH-H034-IAV	ARE42C5E-IAV			1620	1840	2070	2320	2580	2840	3120			
M7ZH-0037-IAV	ARE42C5E-IAV			1680	1910	2150	2420	2700	2990	3290			
M7JH-H038-IAA	ARE48C5E-IAA			2050	2250	2490	2740	3020	3310	3610	3910	4210	
M7JH-H038-IAV	ARE48C5E-IAV			2050	2250	2490	2740	3020	3310	3610	3910	4210	
M7ZH-0041-IAA	ARE48C5E-IAA			2080	2310	2570	2850	3160	3480	3820	4170	4530	4880
M7ZH-0041-IAV	ARE48C5E-IAV			2080	2310	2570	2850	3160	3480	3820	4170	4530	4880
M7JH-H042-IAA	ARE54C5E-IAA			2140	2440	2750	3070	3380	3690	3990	4280		
M7JH-H042-IAV	ARE54C5E-IAV			2140	2440	2750	3070	3380	3690	3990	4280		
M7ZH-0045-IAA	ARE54C5E-IAA			2210	2540	2870	3220	3580	3930	4290	4640	4990	5320
M7ZH-0045-IAV	ARE54C5E-IAV			2210	2540	2870	3220	3580	3930	4290	4640	4990	5320
M7ZH-H046-IAA	RRT62C1E-IAA			2370	2660	2970	3320	3690	4070	4470	4870	5270	5670
M7ZH-H046-IAV	RRT62C1E-IAV			2370	2660	2970	3320	3690	4070	4470	4870	5270	5670
M7ZH-0051-IAV	RRT64C1E-IAV				2980	3330	3700	4090	4500	4920	5350	5770	
M7ZH-0051-IAA	RRT64C1E-IAA				2980	3360	3750	4140	4530	4920	5290	5650	
M7ZH-H055-CAA	RRT64C1E-CAA				3120	3490	3890	4310	4740	5190	5650	6110	6570
M7ZH-H055-CAV	RRT64C1E-CAV				3120	3490	3890	4310	4740	5190	5650	6110	6570
M7GH-H057-CAA	RRT64C1E-CAA			2720	3080	3460	3880	4330	4800	5290			
M7GH-H057-CAV	RRT64C1E-CAV			2720	3080	3460	3880	4330	4800	5290			
M7KH-0060-CAA	RRT64C1E-CAA			2910	3290	3700	4140	4620	5120	5640	6190	6740	7310
M7KH-0060-CAV	RRT64C1E-CAV			2910	3290	3700	4140	4620	5120	5640	6190	6740	7310
M7ZH-0062-CFA	RRT81C1E-PFA				3210	3660	4200	4800	5440	6120			
M7ZH-0062-CFV	RRT81C1E-PFV				3210	3660	4200	4800	5440	6120			
M7ZH-H067-CFA	RRT81C1E-PFA				3310	3780	4340	4950	5620	6310			
M7ZH-H067-CFV	RRT81C1E-PFV				3310	3780	4340	4950	5620	6310			
M7KH-0064-CAA	RRT73C1E-CAA			3230	3680	4150	4650	5160	5690	6240	6810	7390	7990
M7KH-0064-CAV	RRT73C1E-CAV			3230	3680	4150	4650	5160	5690	6240	6810	7390	7990
M7KH-0075-CFA	RRT81C1E-PFA			3140	3570	4130	4770	5480	6230	7020	7810	8600	9360
M7KH-0075-CFV	RRT81C1E-PFV			3140	3570	4130	4770	5480	6230	7020	7810	8600	9360
M7ZH-0070-CFA	RRT10K1E-PFA						5220	5740					
M7ZH-0070-CFV	RRT10K1E-PFV						5220	5740					
M7ZH-H076-CFA	RRT10K1E-PFA				4850	5370	5900	6430					
M7ZH-H076-CFV	RRT10K1E-PFV				4850	5370	5900	6430					
M7KH-0083-CFA	RRT81C1E-PFA		2880	3230	3750	4410	5160	5990	6860	7750			
M7KH-0083-CFV	RRT81C1E-PFV		2880	3230	3750	4410	5160	5990	6860	7750			
M7KH-0086-CFA	RRT10K1E-PFA				4680	5260	5870	6510	7160	7840	8540	9250	
M7KH-0086-CFV	RRT10K1E-PFV				4680	5260	5870	6510	7160	7840	8540	9250	
M7KH-0096-CFA	RRT10K1E-PFA		3730	4300	4920	5590	6300	7050	7860	8700			
M7KH-0096-CFV	RRT10K1E-PFV		3730	4300	4920	5590	6300	7050	7860	8700			

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

R-513A High Temp

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30	35	40	45
110° Ambient													
M7JH-0012-IAA	ARE13C4E-IAA				628	709	796	889	988	1100	1210	1330	1460
M7JH-H012-IAA	ARE13C4E-IAA			584	666	756	852	957	1070	1190	1330	1470	1630
M7ZH-0013-IAA	ARE13C4E-IAA			599	684	776	876	985	1100	1230	1370	1520	1690
M7JH-0014-IAA	ARE17C4E-IAA					875	978	1090	1210	1330	1460	1610	1760
M7JH-H015-IAA	ARE17C4E-IAA			733	831	937	1050	1180	1310	1450	1610	1770	1950
M7ZH-0016-IAA	ARE17C4E-IAA			752	854	963	1080	1210	1350	1500	1660	1830	2020
M7JH-0018-IAA	ARE25C4E-IAA							1400	1550	1700			
M7JH-H020-IAA	ARE25C4E-IAA				1130	1270	1410	1570	1740	1930	2130	2340	2570
M7JH-H024-IAA	ARE29C4E-IAA				1360	1500	1650	1830	2010	2210	2420	2640	2870
M7JH-H029-IAA	ARE35C5E-IAA					1710	1930	2150	2390	2630	2870	3120	
M7ZH-0031-IAA	ARE35C5E-IAA				1560	1770	2000	2240	2490	2760	3030	3310	3590
M7JH-H034-IAV	ARE42C5E-IAV						2110	2350	2590	2840			
M7ZH-0037-IAV	ARE42C5E-IAV				1740	1960	2210	2460	2730	3000			
M7JH-H038-IAA	ARE48C5E-IAA								3040				
M7JH-H038-IAV	ARE48C5E-IAV								3040				
M7ZH-0041-IAA	ARE48C5E-IAA					2410	2660	2930	3210	3510	3820	4130	
M7ZH-0041-IAV	ARE48C5E-IAV					2410	2660	2930	3210	3510	3820	4130	
M7ZH-0045-IAA	ARE54C5E-IAA						2960	3270	3580	3890			
M7ZH-0045-IAV	ARE54C5E-IAV						2960	3270	3580	3890			
M7ZH-H046-IAA	RRT62C1E-IAA					2720	3030	3370	3710	4070	4440		
M7ZH-H046-IAV	RRT62C1E-IAV					2720	3030	3370	3710	4070	4440		
M7ZH-0051-IAA	RRT64C1E-IAA						3330	3670	4000				
M7ZH-0051-IAV	RRT64C1E-IAV						3370	3720					
M7ZH-H055-CAA	RRT64C1E-CAA					3180	3540	3930	4320	4740			
M7ZH-H055-CAV	RRT64C1E-CAV					3180	3540	3930	4320	4740			
M7GH-H057-CAA	RRT64C1E-CAA				2780	3140	3520	3930	4350	4800			
M7GH-H057-CAV	RRT64C1E-CAV				2780	3140	3520	3930	4350	4800			
M7KH-0060-CAA	RRT64C1E-CAA				3000	3380	3790	4220	4680	5170	5670	6180	6710
M7KH-0060-CAV	RRT64C1E-CAV				3000	3380	3790	4220	4680	5170	5670	6180	6710
M7ZH-0062-CFA	RRT81C1E-PFA						3760	4330					
M7ZH-0062-CFV	RRT81C1E-PFV						3760	4330					
M7ZH-H067-CFA	RRT81C1E-PFA					3370	3870	4460					
M7ZH-H067-CFV	RRT81C1E-PFV					3370	3870	4460					
M7KH-0064-CAA	RRT73C1E-CAA					3790	4230	4690	5160	5650	6160	6670	
M7KH-0064-CAV	RRT73C1E-CAV					3790	4230	4690	5160	5650	6160	6670	
M7KH-0075-CFA	RRT81C1E-PFA				3160	3640	4230	4900	5630	6390	7180		
M7KH-0075-CFV	RRT81C1E-PFV				3160	3640	4230	4900	5630	6390	7180		
M7KH-0083-CFA	RRT81C1E-PFA			2810	3230	3810	4500	5290	6130	7000			
M7KH-0083-CFV	RRT81C1E-PFV			2810	3230	3810	4500	5290	6130	7000			
M7KH-0086-CFA	RRT10K1E-PFA					4820	5380	5970	6570				
M7KH-0086-CFV	RRT10K1E-PFV					4820	5380	5970	6570				
M7KH-0096-CFA	RRT10K1E-PFA				4440	5060	5710	6410	7150	7930			
M7KH-0096-CFV	RRT10K1E-PFV				4440	5060	5710	6410	7150	7930			

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

Physical and Electrical Data

Copevap welded air-cooled condensing units

Model	Compressor Electrical	Length	Width	Height	Refrigerant* Connections		Receiver Capacity (Lbs @ 90% Volume)					MCA	Max Fuse	Ship Weight
					Liquid	Suction	134a	404A	448A	449A	450A			
B Chassis														
M6BL-0123-CFA	RFT42C1E-PFA	24	16.29	13.64	3/8	3/8	2.8	3	3			21.4	30	0
M6BL-0123-CFV	RFT42C1E-PFV	24	16.29	13.64	3/8	3/8	2.8	3	3			11.2	15	0
M6BP-0064-CAA	RST45C1E-CAA	24	16.69	13.64	3/8	3/8	2.8	3	3			15.1	20	0
M6BP-0064-CAV	RST45C1E-CAV	24	16.69	13.64	3/8	3/8	2.8	3	3			7.5	15	0
M6BP-0075-CAA	RST55C1E-CAA	24	16.69	13.64	3/8	3/8	2.8	3	3			20.8	30	0
M6BP-0075-CAV	RST55C1E-CAV	24	16.69	13.64	3/8	3/8	2.8	3	3			9.7	15	0
M6BP-0092-CAV	RST64C1E-CAV	24	16.72	13.64	3/8	3/8	2.8	3	3			12.4	20	0
M6BP-0092-CFA	RST64C1E-CFA	24	16.29	13.64	3/8	3/8	2.8	3	3			20.3	30	0
M6BP-0096-CFV	RST70C1E-PFV	24	16.29	13.64	3/8	1/2	2.8	3	3			10.8	15	0
M6BP-0106-CFV	RST80C1E-PFV	24	16.29	13.64	3/8	1/2	2.8	3	3			12.8	20	0
M6BP-0116-CFV	RST97C1E-PFV	24	16.29	13.64	3/8	1/2	2.8	3	3			13.7	20	0
M7BH-0060-CAA	RRT64C1E-CAA	24	16.69	13.64	3/8	3/8	3.3			3.2	3.2	15.8	20	0
M7BH-0060-CAV	RRT64C1E-CAV	24	16.69	13.64	3/8	3/8	3.3			3.2	3.2	9.2	15	0
M7BH-0064-CAA	RRT73C1E-CAA	24	16.69	13.64	1/4	3/8	3.3			3.2	3.2	15.8	20	0
M7BH-0064-CAV	RRT73C1E-CAV	24	16.69	13.64	3/8	3/8	3.3			3.2	3.2	11.8	15	0
M7BH-0075-CFA	RRT81C1E-PFA	24	16.29	13.64	3/8	1/2	3.3			3.2	3.2	18.3	25	0
M7BH-0075-CFV	RRT81C1E-PFV	24	16.29	13.64	3/8	1/2	3.3			3.2	3.2	9.3	15	0
M7BH-0086-CFA	RRT10K1E-PFA	24	16.29	13.64	3/8	1/2	3.3			3.2	3.2	19	30	0
M7BH-0086-CFV	RRT10K1E-PFV	24	16.29	13.64	3/8	1/2	3.3			3.2	3.2	11.2	15	0
E Chassis														
M6EL-0030-IAA	AFE11C4E-IAA	16	14.25	10.52	1/4	5/16	1.3	1.4	1.4			5.9	15	0
M6EL-0038-IAA	AFE13C4E-IAA	16	14.25	10.52	1/4	5/16	1.3	1.4	1.4			7.7	15	0
M6EL-0041-IAA	AFE14C5E-IAA	16	14.25	10.52	1/4	5/16	1.3	1.4	1.4			8.2	15	0
M6EL-0048-CAA	AFE17C4E-CAA	16	14.25	10.47	1/4	5/16	1.3	1.4	1.4			10.4	15	0
M6EL-0052-IAA	AFE20C5E-IAA	16	14.25	10.52	1/4	5/16	1.3	1.4	1.4			8.5	15	0
M6EL-0068-CAA	AFE26C5E-CAA	16	14.25	10.47	1/4	5/16	1.3	1.4	1.4			12.3	20	0
M6EL-H032-IAA	AFE11C4E-IAA	16.06	15.12	11.75	1/4	5/16	1.3	1.4	1.4			6.1	15	0
M6EL-H042-IAA	AFE13C4E-IAA	16.06	15.12	11.75	1/4	5/16	1.3	1.4	1.4			7.9	15	0
M6EL-H043-IAA	AFE14C5E-IAA	16.06	15.12	11.75	1/4	5/16	1.3	1.4	1.4			8.4	15	0
M6EL-H043-IAV	AFE14C5E-IAV	16.06	15.12	11.75	1/4	5/16	1.3	1.4	1.4			4.4	15	0
M6EL-H054-CAA	AFE17C4E-CAA	16.06	15.12	11.75	1/4	3/8	1.3	1.4	1.4			10.6	15	0
M6EL-H054-IAA	AFE17C4E-IAA	16.06	15.12	11.75	1/4	5/16	1.3	1.4	1.4			10.6	15	0
M6EL-H054-IAV	AFE17C4E-IAV	16.06	15.12	11.75	1/4	5/16	1.3	1.4	1.4			5.6	15	0
M6EL-H056-IAA	AFE20C5E-IAA	16.06	15.12	11.75	1/4	5/16	1.3	1.4	1.4			8.8	15	0
M6EL-H056-IAV	AFE20C5E-IAV	16.06	15.12	11.75	1/4	5/16	1.3	1.4	1.4			6	15	0
M6EL-H065-CAA	AFE23C5E-CAA	16.06	15.12	11.75	1/4	5/16	1.3	1.4	1.4			10.3	15	0
M6EL-H074-CAA	AFE26C5E-CAA	16.06	15.12	11.75	1/4	5/16	1.3	1.4	1.4			12.5	20	0
M6EM-0020-IAA	ASE12C4E-IAA	16	14.25	10.52	1/4	5/16	1.3	1.4	1.4			5.4	15	0
M6EM-0023-IAA	ASE14C4E-IAA	16	14.25	10.52	1/4	5/16	1.3	1.4	1.4			6.7	15	0
M6EM-0028-IAA	ASE20C4E-IAA	16	14.25	10.52	1/4	5/16	1.3	1.4	1.4			8.2	15	0
M6EM-0034-IAA	ASE28C5E-IAA	16	14.25	10.52	1/4	5/16	1.3	1.4	1.4			9.7	15	0
M6EM-0045-IAA	ASE39C5E-IAA	16	14.25	10.52	1/4	5/16	1.3	1.4	1.4			13.2	20	0
M6EM-H022-IAA	ASE12C4E-IAA	16.06	15.12	11.75	1/4	5/16	1.3	1.4	1.4			5.6	15	0
M6EM-H026-IAA	ASE14C4E-IAA	16.06	15.12	11.75	1/4	5/16	1.3	1.4	1.4			6.7	15	0
M6EM-H032-CAA	ASE20C4E-CAA	16.06	15.12	11.75	1/4	5/16	1.3	1.4	1.4			7.8	15	0
M6EM-H034-IAA	ASE24C5E-IAA	16.06	15.12	11.75	1/4	5/16	1.3	1.4	1.4			8.6	15	0
M6EM-H040-IAA	ASE28C5E-IAA	16.06	15.12	11.75	1/4	5/16	1.3	1.4	1.4			9.9	15	0
M6EM-H051-IAA	ASE39C5E-IAA	16.06	15.12	11.75	1/4	5/16	1.3	1.4	1.4			13.4	20	0
M6EP-H056-CAA	RST45C1E-CAA	16.26	15.62	11.75	1/4	3/8	1.3	1.4	1.4			14	20	0
M6EP-H056-IAA	RST45C1E-IAA	16.26	15.66	11.75	1/4	3/8	1.3	1.4	1.4			14	20	0
M7EH-0020-IAA	ARE25C4E-IAA	16	14.25	10.52	1/4	5/16	1.5			1.5	1.5	6.8	15	0
M7EH-0024-IAA	ARE29C4E-IAA	16	14.25	10.52	1/4	5/16	1.5			1.5	1.5	5.5	15	0
M7EH-0029-IAA	ARE35C5E-IAA	16	14.25	10.52	1/4	5/16	1.5			1.5	1.5	9.3	15	0
M7EH-0037-IAA	ARE48C5E-IAA	16	14.25	10.52	1/4	5/16	1.5			1.5	1.5	10.7	15	0
M7EH-0041-IAA	ARE54C5E-IAA	16	14.25	10.52	1/4	5/16	1.5			1.5	1.5	12.3	20	0

Connections listed for -177 (B and P Chassis), -103 (E Chassis), and -118 (T Chassis) BOMs. See OPI for connections for other specific BOMs

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

Physical and Electrical Data

Copevap welded air-cooled condensing units

Model	Compressor Electrical	Length	Width	Height	Refrigerant* Connections		Receiver Capacity (Lbs @ 90% Volume)					MCA	Max Fuse	Ship Weight
					Liquid	Suction	134a	404A	448A	449A	450A			
E Chassis (cont)														
M7EH-H016-IAA	ARE17C4E-IAA	16.06	15.12	11.75	1/4	5/16	1.5		1.5	1.5	6.1	15	0	
M7EH-H022-IAA	ARE25C4E-IAA	16.06	15.12	11.75	1/4	5/16	1.5		1.5	1.5	7	15	0	
M7EH-H026-IAA	ARE29C4E-IAA	16.06	15.12	11.75	1/4	5/16	1.5		1.5	1.5	5.8	15	0	
M7EH-H032-IAA	ARE35C5E-IAA	16.06	15.12	11.75	1/4	5/16	1.5		1.5	1.5	9.5	15	0	
M7EH-H041-IAA	ARE48C5E-IAA	16.06	15.12	11.75	1/4	5/16	1.5		1.5	1.5	10.9	15	0	
M7EH-H041-IAV	ARE48C5E-IAV	16.06	15.12	11.75	1/4	5/16	1.5		1.5	1.5	6.9	15	0	
M7EH-H044-IAA	RRT62C1E-IAA	16.62	15.27	11.75	1/4	3/8	1.5		1.5	1.5	12.8	20	0	
M7EH-H044-IAV	RRT62C1E-IAV	16.62	15.27	11.75	1/4	3/8	1.5		1.5	1.5	6	15	0	
M7EH-H046-IAA	ARE54C5E-IAA	16.06	15.12	11.75	1/4	5/16	1.5		1.5	1.5	12.5	20	0	
M7EH-H046-IAV	ARE54C5E-IAV	16.06	15.12	11.75	1/4	5/16	1.5		1.5	1.5	6.9	15	0	
M7EH-H049-CAA	ARE51C4E-CAA	16.06	15.12	11.75	1/4	5/16	1.5		1.5	1.5	14	20	0	
M7EH-H053-CAA	RRT64C1E-CAA	16.26	15.58	11.75	1/4	3/8	1.5		1.5	1.5	14.6	20	0	
M7EH-H053-CAV	RRT64C1E-CAV	16.26	15.58	11.75	1/4	3/8	1.5		1.5	1.5	8.6	15	0	
M7EH-H053-IAA	RRT64C1E-IAA	16.26	15.62	11.75	1/4	3/8	1.5		1.5	1.5	14.6	20	0	
M7EH-H053-IAV	RRT64C1E-IAV	16.71	15.43	11.75	1/4	3/8	1.5		1.5	1.5	8.6	15	0	
M7EM-0040-IAA	AFE13C5E-IAA	16	14.25	10.52	1/4	5/16	1.5		1.5	1.5	8.2	15	0	
M7EM-H043-IAA	AFE13C5E-IAA	16.06	15.12	11.75	1/4	5/16	1.5		1.5	1.5	8.4	15	0	
M7EP-0021-IAA	AFF07C1E-IAA	16	14.25	10.52	1/4	5/16	1.5		1.5	1.5	5.9	15	0	
M7EP-0032-IAA	AFF10C1E-IAA	16	14.25	10.52	1/4	5/16	1.5		1.5	1.5	4.9	15	0	
M7EP-0034-IAA	AFF13C1E-IAA	16	14.25	10.52	1/4	5/16	1.5		1.5	1.5	11.3	15	0	
M7EP-H022-IAA	AFF07C1E-IAA	16.43	15.12	11.75	1/4	5/16	1.5		1.5	1.5	6.1	15	0	
M7EP-H034-IAA	AFF10C1E-IAA	16.43	15.12	11.75	1/4	5/16	1.5		1.5	1.5	5.1	15	0	
M7EP-H036-IAA	AFF13C1E-IAA	16.43	15.12	11.75	1/4	5/16	1.5		1.5	1.5	11.5	15	0	
M7EP-H059-CFA	RFT18C1E-PFA	16.26	15.59	12.46	1/4	3/8	1.5		1.5	1.5	13	20	0	
P Chassis														
M6PL-0023-IAA	AFE08C4E-IAA	19.88	11.06	10.65	1/4	5/16	1.3	1.4	1.4		5.5	15	0	
M6PL-0030-IAA	AFE11C4E-IAA	19.88	11.06	10.65	1/4	5/16	1.3	1.4	1.4		5.9	15	0	
M6PL-0038-IAA	AFE13C4E-IAA	19.88	11.06	11.16	1/4	5/16	1.3	1.4	1.4		7.7	15	0	
M6PL-0041-IAA	AFE14C5E-IAA	19.88	11.06	11.16	1/4	5/16	1.3	1.4	1.4		8.2	15	0	
M6PL-0052-IAA	AFE20C5E-IAA	19.88	11.06	11.16	1/4	5/16	1.3	1.4	1.4		8.5	15	0	
M6PL-0060-CAV	AFE23C5E-CAV	19.88	11.36	10.65	1/4	5/16	1.3	1.4	1.4		5.8	15	0	
M6PM-0020-IAA	ASE12C4E-IAA	19.88	11.06	10.65	1/4	5/16	1.3	1.4	1.4		5.4	15	0	
M6PM-0023-IAA	ASE14C4E-IAA	19.88	11.06	10.65	1/4	5/16	1.3	1.4	1.4		6.7	15	0	
M6PM-0028-CAA	ASE20C4E-CAA	19.88	11.36	10.65	1/4	5/16	1.3	1.4	1.4		7.5	15	0	
M6PM-0028-IAA	ASE20C4E-IAA	19.88	11.06	10.65	1/4	5/16	1.3	1.4	1.4		8.2	15	0	
M6PM-0030-IAA	ASE24C5E-IAA	19.88	11.06	11.16	1/4	5/16	1.3	1.4	1.4		8.4	15	0	
M7PH-0012-IAA	ARE13C4E-IAA	19.88	11.06	10.65	1/4	5/16	1.5		1.5	1.5	5.9	15	0	
M7PH-0015-IAA	ARE17C4E-IAA	19.88	11.06	10.65	1/4	5/16	1.5		1.5	1.5	5.9	15	0	
M7PH-0020-IAA	ARE25C4E-IAA	19.88	11.06	10.65	1/4	5/16	1.5		1.5	1.5	6.8	15	0	
M7PH-0024-IAA	ARE29C4E-IAA	19.88	11.06	10.65	1/4	5/16	1.5		1.5	1.5	4.4	15	0	
M7PH-0029-IAA	ARE35C5E-IAA	19.88	11.06	11.16	1/4	5/16	1.5		1.5	1.5	9.3	15	0	
M7PH-0038-IAA	ARE48C5E-IAA	19.88	11.06	11.16	1/4	5/16	1.5		1.5	1.5	10.7	15	0	
M7PH-0042-IAA	ARE54C5E-IAA	19.88	11.06	11.16	1/4	5/16	1.5		1.5	1.5	12.3	20	0	
M7PM-0036-IAA	AFE12C4E-IAA	19.88	11.06	11.16	1/4	5/16	1.5		1.5	1.5	8.8	15	0	
M7PP-0021-IAA	AFF07C1E-IAA	19.9	11.06	11.69	1/4	5/16	1.5		1.5	1.5	5.9	15	0	
M7PP-0032-IA3	AFF10C1E-IA3	19.9	11.06	11.69	1/4	5/16	1.5		1.5	1.5	5.2	15	0	
M7PP-0032-IAA	AFF10C1E-IAA	19.9	11.06	11.69	1/4	5/16	1.5		1.5	1.5	4.9	15	0	
M7PP-0034-IAA	AFF13C1E-IAA	19.9	11.06	11.69	1/4	5/16	1.5		1.5	1.5	11.3	15	0	
MUPL-0024-IAA	AFM06C1U-IAA	19.88	11.66	10.46	1/4	1/4					5.7	15		
MUPL-0029-IAA	AFF10C1U-IAA	20.12	11.66	10.47	1/4	5/16					11.3	15		
MUPL-0041-IAA	AFF12C1U-IAA	20.12	11.66	10.47	1/4	5/16					11.3	15		
MUPL-0045-IAA	AFE15C5U-IAA	19.88	11.66	10.46	1/4	5/16					8.2	15		
MUPL-0057-IAA	AFE20C5U-IAA	19.88	11.66	10.46	1/4	5/16					9.2	15		
MUPL-0058-CAA	AFE20C5U-CAA	19.88	11.84	10.46	1/4	5/16					9.2	15		
MUPL-0070-CAA	AFE25C5U-CAA	19.88	11.84	10.46	1/4	5/16					9.5	15		

Connections listed for -177 (B and P Chassis), -103 (E Chassis), and -118 (T Chassis) BOMs. See OPI for connections for other specific BOMs

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

Physical and Electrical Data

Copevap welded air-cooled condensing units

Model	Compressor Electrical	Length	Width	Height	Refrigerant* Connections		Receiver Capacity (Lbs @ 90% Volume)						MCA	Max Fuse	Ship Weight
					Liquid	Suction	134a	404A	448A	449A	450A	513A			
P Chassis (cont)															
MUPM-0022-IAA	ASE12C4U-IAA	19.88	11.66	10.46	1/4	5/16							6.3	15	
MUPM-0024-IAA	ASE17C4U-IAA	19.88	11.66	10.46	1/4	5/16							6.9	15	
MUPM-0031-IAA	ASE21C5U-IAA	19.88	11.66	10.46	1/4	5/16							6.9	15	
MUPM-0039-IAA	ASE32C4U-IAA	19.88	11.66	10.46	1/4	5/16							13.2	20	
MUPM-0047-IAA	ASE37C5U-IAA	19.88	11.66	10.46	1/4	5/16							9.7	15	
MUPM-0048-CAA	ASE37C5U-CAA	19.88	11.84	10.46	1/4	5/16							9.7	15	
T Chassis															
M6TL-0018-IAA	AFE06C4E-IAA	19	9.41	10.53	1/4	5/16	1.3	1.4	1.4				4.5	15	0
M6TL-0022-IAA	AFE08C4E-IAA	19	9.41	10.53	1/4	5/16	1.3	1.4	1.4				5.5	15	0
M6TL-0029-IAA	AFE11C4E-IAA	19	9.41	10.53	1/4	5/16	1.3	1.4	1.4				5.9	15	0
M6TL-0037-IAA	AFE13C4E-IAA	19	9.41	10.53	1/4	5/16	1.3	1.4	1.4				7.7	15	0
M6TL-0040-IAA	AFE14C5E-IAA	19	9.41	10.53	1/4	5/16	1.3	1.4	1.4				8.2	15	0
M6TL-0040-IAV	AFE14C5E-IAV	19.04	8.47	10.53	1/4	5/16	1.3	1.4	1.4				4.3	15	0
M6TL-0051-IAA	AFE20C5E-IAA	19	9.41	10.53	1/4	5/16	1.3	1.4	1.4				8.5	15	0
M6TL-0051-IAV	AFE20C5E-IAV	19	9.41	10.53	1/4	5/16	1.3	1.4	1.4				5.9	15	0
M6TM-0020-IAA	ASE12C4E-IAA	19	9.41	10.53	1/4	5/16	1.3	1.4	1.4				5.4	15	0
M6TM-0022-IAA	ASE14C4E-IAA	19	9.41	10.53	1/4	5/16	1.3	1.4	1.4				6.7	15	0
M6TM-0027-IAA	ASE20C4E-IAA	19	9.41	10.53	1/4	5/16	1.3	1.4	1.4				8.2	15	0
M6TM-0027-IAV	ASE20C4E-IAV	19	9.41	10.53	1/4	5/16	1.3	1.4	1.4				4.3	15	0
M6TM-0028-IAA	ASE24C5E-IAA	19	9.41	10.53	1/4	5/16	1.3	1.4	1.4				8.4	15	0
M6TM-0032-IAA	ASE28C5E-IAA	19	9.41	10.53	1/4	5/16	1.3	1.4	1.4				9.7	15	0
M6TM-0032-IAV	ASE28C5E-IAV	19	9.41	10.53	1/4	5/16	1.3	1.4	1.4				5.6	15	0
M7TH-0012-IAA	ARE13C4E-IAA	19	9.41	10.53	1/4	5/16	1.5			1.5	1.5		5.9	15	0
M7TH-0015-IAA	ARE17C4E-IAA	19	9.41	10.53	1/4	5/16	1.5			1.5	1.5		5.9	15	0
M7TH-0020-IAA	ARE25C4E-IAA	19	9.41	10.53	1/4	5/16	1.5			1.5	1.5		6.8	15	0
M7TH-0023-IAA	ARE29C4E-IAA	19	9.41	10.53	1/4	5/16	1.5			1.5	1.5		5.5	15	0
M7TH-0025-IAA	ARE34C4E-IAA	19	9.41	10.53	1/4	5/16	1.5			1.5	1.5		6.4	15	0
M7TH-0025-IAV	ARE34C4E-IAV	19	9.41	10.53	1/4	5/16	1.5			1.5	1.5		4.9	15	0
M7TH-0028-IAA	ARE35C5E-IAA	19	9.41	10.53	1/4	5/16	1.5			1.5	1.5		9.3	15	0
M7TH-0033-IAV	ARE42C5E-IAV	19	9.41	10.53	1/4	5/16	1.5			1.5	1.5		5.1	15	0
M7TH-0036-IAA	ARE48C5E-IAA	19	9.41	10.53	1/4	5/16	1.5			1.5	1.5		10.7	15	0
M7TH-0036-IAV	ARE48C5E-IAV	19	9.41	10.53	1/4	5/16	1.5			1.5	1.5		6.8	15	0
M7TM-0035-IAA	AFE12C4E-IAA	19	9.41	10.53	1/4	5/16	1.5			1.5	1.5		8.8	15	0
M7TP-0020-IAA	AFF07C1E-IAA	19.34	9.41	10.53	1/4	5/16	1.5			1.5	1.5		5.9	15	38
M7TP-0032-IA3	AFF10C1E-IA3	19.34	9.14	10.53	1/4	1/4	1.5			1.5	1.5		5.2	15	0
M7TP-0032-IAA	AFF10C1E-IAA	19.34	9.41	10.53	1/4	5/16	1.5			1.5	1.5		4.9	15	0
M7TP-0033-IAA	AFF13C1E-IAA	19.34	9.41	10.53	1/4	5/16	1.5			1.5	1.5		11.3	15	0

Connections listed for -177 (B and P Chassis), -103 (E Chassis), and -118 (T Chassis) BOMs. See OPI for connections for other specific BOMs

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

R-134a Condensate Base MT/EMT

Copevap welded air-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0	5	10	15	20	25	30
90° Ambient													
M7TP-0020-IAA	AFF07C1E-IAA	544	638	743	859	987	1130	1280	1450	1630	1820	2030	
M7EP-0021-IAA	AFF07C1E-IAA	548	643	749	867	997	1140	1300	1470	1650	1850	2060	
M7PP-0021-IAA	AFF07C1E-IAA	548	643	749	867	997	1140	1300	1470	1650	1850	2060	
M7EP-H022-IAA	AFF07C1E-IAA	555	651	759	879	1010	1160	1320	1490	1680	1880	2100	
M7TP-0032-IA3	AFF10C1E-IA3	824	969	1130	1310	1500	1710	1940	2190	2450	2730	3030	
M7TP-0032-IAA	AFF10C1E-IAA	824	969	1130	1310	1500	1710	1940	2190	2450	2730	3030	
M7EP-0032-IAA	AFF10C1E-IAA	834	982	1150	1330	1530	1740	1980	2230	2500	2790	3100	
M7PP-0032-IA3	AFF10C1E-IA3	834	982	1150	1330	1530	1740	1980	2230	2500	2790	3100	
M7PP-0032-IAA	AFF10C1E-IAA	834	982	1150	1330	1530	1740	1980	2230	2500	2790	3100	
M7EP-H034-IAA	AFF10C1E-IAA	849	1000	1170	1350	1560	1780	2030	2290	2570	2880	3200	
M7TP-0033-IAA	AFF13C1E-IAA	951	1120	1300	1500	1720	1960	2210	2490	2780	3090	3420	
M7TM-0035-IAA	AFF13C1E-IAA	983	1140	1330	1540	1760	2010	2270	2550	2830	3120		
M7EP-0034-IAA	AFF13C1E-IAA	964	1130	1320	1530	1750	2000	2260	2550	2850	3180	3520	
M7PP-0034-IAA	AFF13C1E-IAA	964	1130	1320	1530	1750	2000	2260	2550	2850	3180	3520	
M7PM-0036-IAA	AFF13C1E-IAA	995	1160	1350	1560	1800	2050	2320	2610	2910	3210		
M7EP-H036-IAA	AFF13C1E-IAA	984	1160	1350	1560	1800	2050	2330	2630	2950	3290	3650	
M7EM-H043-IAA	AFF13C5E-IAA	1030	1210	1410	1640	1900	2170	2460	2770	3090	3420		
M7EP-H059-CFA	RFT18C1E-PFA	1420	1760	2110	2470	2830	3200	3570	3950	4340	4730	5120	5530
100° Ambient													
M7TP-0020-IAA	AFF07C1E-IAA	491	579	677	786	906	1040	1180	1340	1500	1690	1880	
M7EP-0021-IAA	AFF07C1E-IAA	494	584	683	794	916	1050	1200	1360	1530	1710	1910	
M7PP-0021-IAA	AFF07C1E-IAA	494	584	683	794	916	1050	1200	1360	1530	1710	1910	
M7EP-H022-IAA	AFF07C1E-IAA	501	592	693	806	930	1070	1220	1380	1560	1750	1950	
M7TP-0032-IA3	AFF10C1E-IA3	738	873	1020	1190	1370	1570	1780	2010	2250	2510	2790	
M7TP-0032-IAA	AFF10C1E-IAA	738	873	1020	1190	1370	1570	1780	2010	2250	2510	2790	
M7EP-0032-IAA	AFF10C1E-IAA	747	885	1040	1210	1390	1600	1810	2050	2300	2580	2860	
M7PP-0032-IA3	AFF10C1E-IA3	747	885	1040	1210	1390	1600	1810	2050	2300	2580	2860	
M7PP-0032-IAA	AFF10C1E-IAA	747	885	1040	1210	1390	1600	1810	2050	2300	2580	2860	
M7EP-H034-IAA	AFF10C1E-IAA	761	903	1060	1230	1430	1640	1860	2110	2370	2660	2960	
M7TP-0033-IAA	AFF13C1E-IAA	850	1010	1180	1360	1570	1790	2030	2280	2560	2850	3150	
M7TM-0035-IAA	AFF13C1E-IAA	903	1050	1220	1410	1620	1850	2090	2340	2590	2860		
M7EP-0034-IAA	AFF13C1E-IAA	863	1020	1200	1390	1600	1830	2080	2340	2620	2930	3250	
M7PP-0034-IAA	AFF13C1E-IAA	863	1020	1200	1390	1600	1830	2080	2340	2620	2930	3250	
M7PM-0036-IAA	AFF13C1E-IAA	914	1070	1240	1440	1660	1890	2140	2400	2670	2950		
M7EP-H036-IAA	AFF13C1E-IAA	882	1040	1220	1420	1640	1880	2140	2420	2720	3030	3370	
M7EM-H043-IAA	AFF13C5E-IAA	940	1110	1300	1520	1750	2000	2270	2560	2850	3160		
M7EP-H059-CFA	RFT18C1E-PFA		1510	1850	2200	2550	2900	3260	3630	4000	4380	4770	5160
110° Ambient													
M7TP-0020-IAA	AFF07C1E-IAA	437	519	611	712	824	947	1080	1230	1380	1550	1730	
M7EP-0021-IAA	AFF07C1E-IAA	440	523	616	719	833	957	1090	1240	1400	1580	1770	
M7PP-0021-IAA	AFF07C1E-IAA	440	523	616	719	833	957	1090	1240	1400	1580	1770	
M7EP-H022-IAA	AFF07C1E-IAA	449	533	628	733	849	977	1120	1270	1440	1610	1810	
M7TP-0032-IA3	AFF10C1E-IA3	651	777	916	1070	1240	1420	1620	1830	2060	2300	2560	
M7TP-0032-IAA	AFF10C1E-IAA	651	777	916	1070	1240	1420	1620	1830	2060	2300	2560	
M7EP-0032-IAA	AFF10C1E-IAA	659	787	930	1090	1260	1450	1650	1870	2110	2360	2630	
M7PP-0032-IA3	AFF10C1E-IA3	659	787	930	1090	1260	1450	1650	1870	2110	2360	2630	
M7PP-0032-IAA	AFF10C1E-IAA	659	787	930	1090	1260	1450	1650	1870	2110	2360	2630	
M7EP-H034-IAA	AFF10C1E-IAA	675	807	953	1110	1290	1490	1700	1930	2180	2440	2730	
M7TP-0033-IAA	AFF13C1E-IAA	751	895	1050	1230	1420	1620	1840	2080	2330	2600	2880	
M7TM-0035-IAA	AFF13C1E-IAA		960	1110	1280	1470	1680	1890	2110	2340			
M7EP-0034-IAA	AFF13C1E-IAA	761	909	1070	1250	1450	1660	1890	2140	2400	2680	2980	
M7PP-0034-IAA	AFF13C1E-IAA	761	909	1070	1250	1450	1660	1890	2140	2400	2680	2980	
M7PM-0036-IAA	AFF13C1E-IAA		973	1130	1310	1510	1720	1950	2180	2430	2670		
M7EP-H036-IAA	AFF13C1E-IAA	781	933	1100	1290	1490	1710	1950	2210	2490	2790	3100	
M7EM-H043-IAA	AFF13C5E-IAA	850	1010	1190	1390	1600	1840	2090	2350	2630	2910		
M7EP-H059-CFA	RFT18C1E-PFA				1920	2270	2620	2980	3340	3710			

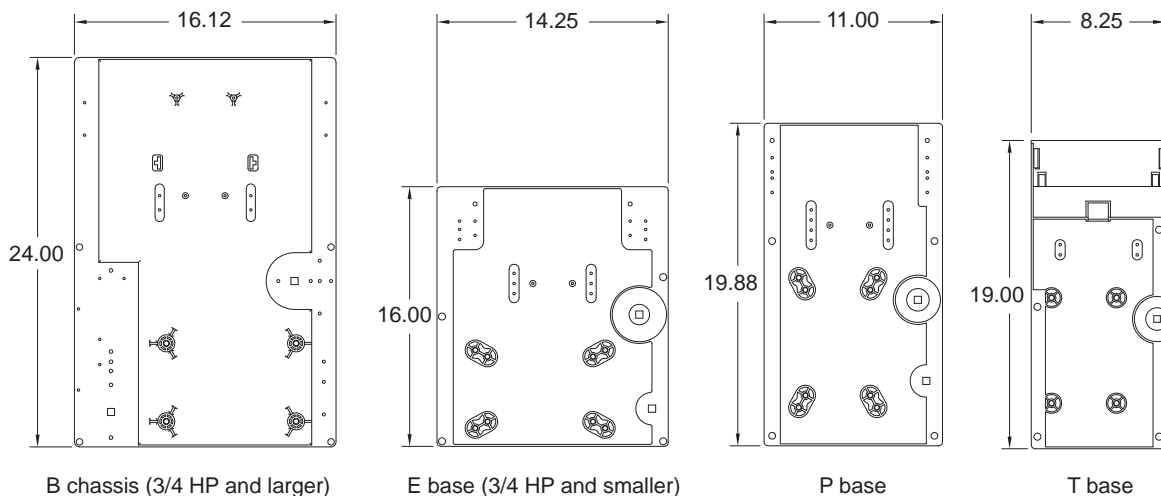
Capacities rated at 40°F return gas, 5°F subcooling

R-134a Condensate Base HT

Copevap welded air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30	35	40	45
110° Ambient													
M7TH-0012-IAA	ARE13C4E-IAA			520	603	692	790	897	1010	1140	1280	1420	1580
M7PH-0012-IAA	ARE13C4E-IAA			524	608	699	798	907	1030	1160	1300	1450	1610
M7EH-H016-IAA	ARE17C4E-IAA			634	732	840	957	1090	1220	1380			
M7TH-0015-IAA	ARE17C4E-IAA			654	752	859	975	1100	1240	1390	1540	1710	1900
M7PH-0015-IAA	ARE17C4E-IAA			660	760	868	987	1120	1260	1410	1570	1750	1930
M7EH-H022-IAA	ARE25C4E-IAA			871	996	1140	1290	1450	1640	1830			
M7TH-0020-IAA	ARE25C4E-IAA				1020	1160	1310	1470	1650	1840	2040	2260	2500
M7EH-0020-IAA	ARE25C4E-IAA			911	1040	1180	1330	1500	1680	1880	2090	2320	2570
M7PH-0020-IAA	ARE25C4E-IAA			911	1040	1180	1330	1500	1680	1880	2090	2320	2570
M7TH-0023-IAA	ARE29C4E-IAA					1370	1530	1710	1900	2100	2320	2540	2770
M7TH-0025-IAA	ARE34C4E-IAA				1220	1360	1530	1700	1900	2110	2330	2570	2810
M7TH-0025-IAV	ARE34C4E-IAV				1220	1360	1530	1700	1900	2110	2330	2570	2810
M7EH-H026-IAA	ARE29C4E-IAA			1090	1220	1360	1530	1720	1920	2140			
M7EH-0024-IAA	ARE29C4E-IAA				1250	1400	1560	1740	1940	2160	2380	2620	2860
M7PH-0024-IAA	ARE29C4E-IAA				1250	1400	1560	1740	1940	2160	2380	2620	2860
M7TH-0028-IAA	ARE35C5E-IAA					1580	1790	2010	2250	2500	2770		
M7EH-H032-IAA	ARE35C5E-IAA				1370	1570	1780	2010	2260	2530			
M7EH-0029-IAA	ARE35C5E-IAA					1610	1820	2050	2300	2560	2840	3130	
M7PH-0029-IAA	ARE35C5E-IAA					1610	1820	2050	2300	2560	2840	3130	
M7EH-H041-IAA	ARE48C5E-IAA					2120	2380	2660	2940	3250			
M7EH-H041-IAV	ARE48C5E-IAV					2120	2380	2660	2940	3250			
M7EH-0037-IAA	ARE48C5E-IAA							2700	2980				
M7PH-0038-IAA	ARE48C5E-IAA							2700	2980				
M7EH-H044-IAA	RRT62C1E-IAA					2340	2630	2930	3260	3590			
M7EH-H044-IAV	RRT62C1E-IAV					2340	2630	2930	3260	3590			
M7EH-H046-IAA	ARE54C5E-IAA						2640	2940	3260	3580			
M7EH-H046-IAV	ARE54C5E-IAV						2640	2940	3260	3580			
M7EH-H053-CAA	RRT64C1E-CAA					2660	2980	3330	3680				
M7EH-H053-CAV	RRT64C1E-CAV					2660	2980	3330	3680				
M7EH-H053-IAA	RRT64C1E-IAA					2660	2980	3330	3680				
M7EH-H053-IAV	RRT64C1E-IAV					2660	2980	3330	3680				
M7BH-0060-CAA	RRT64C1E-CAA				2770	3160	3580	4030	4520	5020	5560	6120	6700
M7BH-0060-CAV	RRT64C1E-CAV				2770	3160	3580	4030	4520	5020	5560	6120	6700
M7BH-0064-CAA	RRT73C1E-CAA				3110	3550	4010	4490	5000	5530	6080	6660	7260
M7BH-0064-CAV	RRT73C1E-CAV				3110	3550	4010	4490	5000	5530	6080	6660	7260
M7BH-0075-CFA	RRT81C1E-PFA				3110	3600	4170	4810	5500	6210	6950	7680	
M7BH-0075-CFV	RRT81C1E-PFV				3110	3600	4170	4810	5500	6210	6950	7680	
M7BH-0086-CFA	RRT10K1E-PFA					4740	5280	5840	6410	6990			
M7BH-0086-CFV	RRT10K1E-PFV					4740	5280	5840	6410	6990			

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



R-134a Condensate Base HT

Copevap welded air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30	35	40	45
90° Ambient													
M7TH-0012-IAA	ARE13C4E-IAA			626	721	825	939	1060	1200	1350	1500	1680	1860
M7PH-0012-IAA	ARE13C4E-IAA			630	727	832	948	1070	1210	1360	1520	1700	1890
M7EH-H016-IAA	ARE17C4E-IAA			756	869	992	1130	1270	1430	1610			
M7TH-0015-IAA	ARE17C4E-IAA			775	887	1010	1140	1290	1440	1610	1790	1980	2190
M7PH-0015-IAA	ARE17C4E-IAA			781	895	1020	1150	1300	1460	1630	1820	2010	2230
M7EH-H022-IAA	ARE25C4E-IAA			1030	1180	1350	1520	1710	1920	2140			
M7TH-0020-IAA	ARE25C4E-IAA			1060	1210	1370	1550	1730	1940	2150	2390	2640	2900
M7EH-0020-IAA	ARE25C4E-IAA			1070	1230	1390	1570	1760	1970	2190	2430	2680	2960
M7PH-0020-IAA	ARE25C4E-IAA			1070	1230	1390	1570	1760	1970	2190	2430	2680	2960
M7TH-0023-IAA	ARE29C4E-IAA			1280	1440	1610	1800	2020	2250	2490	2750	3020	3300
M7TH-0025-IAA	ARE34C4E-IAA			1290	1440	1610	1800	2020	2250	2500	2760	3040	3330
M7TH-0025-IAV	ARE34C4E-IAV			1290	1440	1610	1800	2020	2250	2500	2760	3040	3330
M7EH-H026-IAA	ARE29C4E-IAA			1270	1430	1610	1810	2040	2280	2540			
M7EH-0024-IAA	ARE29C4E-IAA			1300	1450	1630	1830	2050	2290	2540	2810	3090	3390
M7PH-0024-IAA	ARE29C4E-IAA			1300	1450	1630	1830	2050	2290	2540	2810	3090	3390
M7TH-0028-IAA	ARE35C5E-IAA			1430	1620	1830	2070	2320	2590	2870	3170	3490	3830
M7EH-H032-IAA	ARE35C5E-IAA			1410	1610	1830	2070	2330	2610	2910			
M7EH-0029-IAA	ARE35C5E-IAA			1450	1640	1860	2100	2360	2640	2930	3240	3570	3920
M7PH-0029-IAA	ARE35C5E-IAA			1450	1640	1860	2100	2360	2640	2930	3240	3570	3920
M7TH-0036-IAA	ARE48C5E-IAA			1900	2170	2450	2740	3050	3370	3700	4050	4400	4770
M7TH-0036-IAV	ARE48C5E-IAV			1900	2170	2450	2740	3050	3370	3700	4050	4400	4770
M7EH-H041-IAA	ARE48C5E-IAA			1880	2150	2450	2760	3090	3430	3790			
M7EH-H041-IAV	ARE48C5E-IAV			1880	2150	2450	2760	3090	3430	3790			
M7EH-0037-IAA	ARE48C5E-IAA			1930	2200	2490	2800	3120	3450	3800	4170	4540	4930
M7PH-0038-IAA	ARE48C5E-IAA			1930	2200	2490	2800	3120	3450	3800	4170	4540	4930
M7EH-H046-IAA	ARE54C5E-IAA			2090	2400	2720	3060	3420	3800	4190			
M7EH-H046-IAV	ARE54C5E-IAV			2090	2400	2720	3060	3420	3800	4190			
M7EH-0041-IAA	ARE54C5E-IAA			2140	2450	2770	3110	3460	3830	4210	4590	4980	5380
M7PH-0042-IAA	ARE54C5E-IAA			2140	2450	2770	3110	3460	3830	4210	4590	4980	5380
M7EH-H044-IAA	RRT62C1E-IAA		1960	2210	2500	2810	3150	3510	3890	4280			
M7EH-H044-IAV	RRT62C1E-IAV		1960	2210	2500	2810	3150	3510	3890	4280			
M7EH-H053-CAA	RRT64C1E-CAA		2240	2540	2860	3220	3600	3990	4410	4850			
M7EH-H053-CAV	RRT64C1E-CAV		2240	2540	2860	3220	3600	3990	4410	4850			
M7EH-H053-IAA	RRT64C1E-IAA		2240	2540	2860	3220	3600	3990	4410	4850			
M7EH-H053-IAV	RRT64C1E-IAV		2240	2540	2860	3220	3600	3990	4410	4850			
M7BH-0060-CAA	RRT64C1E-CAA	2300	2620	2970	3360	3790	4260	4760	5290	5860	6440	7060	7690
M7BH-0060-CAV	RRT64C1E-CAV	2300	2620	2970	3360	3790	4260	4760	5290	5860	6440	7060	7690
M7BH-0064-CAA	RRT73C1E-CAA	2420	2850	3290	3760	4250	4770	5310	5890	6490	7130	7800	8490
M7BH-0064-CAV	RRT73C1E-CAV	2420	2850	3290	3760	4250	4770	5310	5890	6490	7130	7800	8490
M7BH-0075-CFA	RRT81C1E-PFA		3060	3480	4000	4600	5270	5980	6720	7470	8230	8980	9700
M7BH-0075-CFV	RRT81C1E-PFV		3060	3480	4000	4600	5270	5980	6720	7470	8230	8980	9700
M7BH-0086-CFA	RRT10K1E-PFA		3840	4430	5040	5660	6290	6940	7610	8300	9010	9750	10500
M7BH-0086-CFV	RRT10K1E-PFV		3840	4430	5040	5660	6290	6940	7610	8300	9010	9750	10500

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

R-134a Condensate Base HT

Copevap welded air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30	35	40	45
100° Ambient													
M7TH-0012-IAA	ARE13C4E-IAA			574	663	760	867	982	1110	1250	1390	1550	1720
M7PH-0012-IAA	ARE13C4E-IAA			578	669	767	876	994	1120	1260	1410	1580	1750
M7EH-H016-IAA	ARE17C4E-IAA			697	802	918	1040	1180	1330	1490			
M7TH-0015-IAA	ARE17C4E-IAA			717	822	936	1060	1200	1340	1500	1670	1850	2040
M7PH-0015-IAA	ARE17C4E-IAA			723	830	946	1070	1210	1360	1520	1700	1880	2080
M7EH-H022-IAA	ARE25C4E-IAA			955	1090	1250	1410	1590	1790	2000			
M7TH-0020-IAA	ARE25C4E-IAA			985	1120	1270	1430	1610	1800	2000	2220	2460	2710
M7EH-0020-IAA	ARE25C4E-IAA			996	1140	1290	1450	1640	1830	2040	2270	2510	2770
M7PH-0020-IAA	ARE25C4E-IAA			996	1140	1290	1450	1640	1830	2040	2270	2510	2770
M7TH-0023-IAA	ARE29C4E-IAA			1190	1330	1490	1670	1860	2070	2300	2530	2780	3040
M7TH-0025-IAA	ARE34C4E-IAA			1190	1330	1480	1660	1860	2070	2310	2550	2810	3070
M7TH-0025-IAV	ARE34C4E-IAV			1190	1330	1480	1660	1860	2070	2310	2550	2810	3070
M7EH-H026-IAA	ARE29C4E-IAA			1180	1320	1490	1670	1880	2100	2340			
M7EH-0024-IAA	ARE29C4E-IAA			1210	1350	1510	1700	1900	2120	2350	2600	2860	3130
M7PH-0024-IAA	ARE29C4E-IAA			1210	1350	1510	1700	1900	2120	2350	2600	2860	3130
M7TH-0028-IAA	ARE35C5E-IAA			1320	1510	1710	1930	2160	2420	2690	2970	3270	3590
M7EH-H032-IAA	ARE35C5E-IAA			1310	1490	1700	1930	2170	2440	2720			
M7EH-0029-IAA	ARE35C5E-IAA			1340	1530	1740	1960	2200	2470	2740	3040	3350	3680
M7PH-0029-IAA	ARE35C5E-IAA			1340	1530	1740	1960	2200	2470	2740	3040	3350	3680
M7TH-0036-IAA	ARE48C5E-IAA			1790	2030	2290	2560	2840	3130	3440	3750		
M7TH-0036-IAV	ARE48C5E-IAV			1790	2030	2290	2560	2840	3130	3440	3750		
M7EH-H041-IAA	ARE48C5E-IAA			1750	2010	2280	2570	2870	3190	3520			
M7EH-H041-IAV	ARE48C5E-IAV			1750	2010	2280	2570	2870	3190	3520			
M7EH-0037-IAA	ARE48C5E-IAA			1810	2070	2330	2620	2910	3220	3540	3870	4210	
M7PH-0038-IAA	ARE48C5E-IAA			1810	2070	2330	2620	2910	3220	3540	3870	4210	
M7EH-H046-IAA	ARE54C5E-IAA			1930	2220	2530	2850	3190	3540	3890			
M7EH-H046-IAV	ARE54C5E-IAV			1930	2220	2530	2850	3190	3540	3890			
M7EH-H044-IAA	RRT62C1E-IAA			2030	2280	2570	2880	3210	3560	3930			
M7EH-H044-IAV	RRT62C1E-IAV			2030	2280	2570	2880	3210	3560	3930			
M7EH-0041-IAA	ARE54C5E-IAA			1990	2280	2590	2900	3230	3570	3910	4260		
M7PH-0042-IAA	ARE54C5E-IAA			1990	2280	2590	2900	3230	3570	3910	4260		
M7EH-H053-CAA	RRT64C1E-CAA				2610	2930	3280	3660	4040	4450			
M7EH-H053-CAV	RRT64C1E-CAV				2610	2930	3280	3660	4040	4450			
M7EH-H053-IAA	RRT64C1E-IAA				2610	2930	3280	3660	4040	4450			
M7EH-H053-IAV	RRT64C1E-IAV				2610	2930	3280	3660	4040	4450			
M7BH-0060-CAA	RRT64C1E-CAA			2680	3050	3460	3900	4380	4890	5420	5980	6560	7170
M7BH-0060-CAV	RRT64C1E-CAV			2680	3050	3460	3900	4380	4890	5420	5980	6560	7170
M7BH-0064-CAA	RRT73C1E-CAA			2970	3410	3890	4380	4900	5440	6010	6610	7230	7880
M7BH-0064-CAV	RRT73C1E-CAV			2970	3410	3890	4380	4900	5440	6010	6610	7230	7880
M7BH-0075-CFA	RRT81C1E-PFA			3080	3530	4090	4710	5390	6110	6850	7590	8340	9060
M7BH-0075-CFV	RRT81C1E-PFV			3080	3530	4090	4710	5390	6110	6850	7590	8340	9060
M7BH-0086-CFA	RRT10K1E-PFA				4620	5200	5790	6390	7010	7640	8300	8970	9670
M7BH-0086-CFV	RRT10K1E-PFV				4620	5200	5790	6390	7010	7640	8300	8970	9670

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

R-290 Low Temp

Copevap welded air-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25
90° Ambient													
MUPL-0024-IAA	AFM06C1U-IAA		678	763	856	960	1070	1200	1340	1490	1650	1830	2010
MUPL-0029-IAA	AFF10C1U-IAA		961	1080	1220	1370	1540	1720	1910	2120	2340	2580	2830
MUPL-0041-IAA	AFF12C1U-IAA		1170	1320	1480	1660	1850	2050	2260	2490	2720	2970	3240
MUPL-0045-IAA	AFE15C5U-IAA	1080	1240	1420	1600	1800	2020	2240	2480	2730			
MUPL-0057-IAA	AFE20C5U-IAA	1390	1590	1810	2040	2290	2550	2820	3110	3420			
MUPL-0058-CAA	AFE20C5U-CAA	1380	1580	1810	2050	2320	2600	2890	3200	3520			
MUPL-0070-CAA	AFE25C5U-CAA	1700	1950	2220	2500	2800	3120	3450	3790	4140			
100° Ambient													
MUPL-0024-IAA	AFM06C1U-IAA		625	703	789	884	988	1100	1230	1360	1510	1670	1840
MUPL-0029-IAA	AFF10C1U-IAA		886	998	1120	1260	1410	1580	1760	1950	2150	2370	2590
MUPL-0041-IAA	AFF12C1U-IAA		1090	1230	1380	1550	1720	1910	2110	2330	2550	2780	3030
MUPL-0045-IAA	AFE15C5U-IAA	986	1130	1290	1460	1640	1840	2050	2270	2500			
MUPL-0057-IAA	AFE20C5U-IAA	1260	1450	1650	1870	2100	2340	2600	2870	3150			
MUPL-0058-CAA	AFE20C5U-CAA	1260	1440	1660	1890	2130	2390	2660	2940	3230			
MUPL-0070-CAA	AFE25C5U-CAA	1560	1790	2030	2290	2560	2850	3130	3430	3730			
110° Ambient													
MUPL-0024-IAA	AFM06C1U-IAA		568	640	719	805	900	1000	1120	1240	1380	1520	1680
MUPL-0029-IAA	AFF10C1U-IAA		807	909	1020	1150	1290	1440	1600	1780	1960	2160	2370
MUPL-0041-IAA	AFF12C1U-IAA			1130	1280	1430	1600	1780	1970	2160	2370	2590	2820
MUPL-0045-IAA	AFE15C5U-IAA		1020	1160	1320	1490	1670	1870	2080	2300			
MUPL-0057-IAA	AFE20C5U-IAA	1140	1310	1490	1690	1910							
MUPL-0058-CAA	AFE20C5U-CAA		1320	1520	1730	1950	2190	2430	2680	2930			
MUPL-0070-CAA	AFE25C5U-CAA		1630	1850	2070	2310	2550	2790	3030				

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

R-290 Medium Temp

Copevap welded air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30
90° Ambient										
MUJM-0019-IAA	ASE12C4U-IAA	861	969	1090	1220	1360	1500	1660	1820	
MUPM-0022-IAA	ASE12C4U-IAA	922	1040	1160	1310	1460	1630	1800	1990	2190
MUPM-0024-IAA	ASE17C4U-IAA	1100	1220	1360	1510	1680	1860	2050	2250	2460
MUPM-0031-IAA	ASE21C5U-IAA	1290	1450	1630	1830	2040	2270	2510	2760	3030
MUPM-0039-IAA	ASE32C4U-IAA	1970	2170	2390	2640	2910	3200	3500	3800	4110
MUPM-0047-IAA	ASE37C5U-IAA	2140	2380	2630	2900	3190	3490	3800	4120	4460
MUPM-0048-CAA	ASE37C5U-CAA	2170	2410	2660	2940	3230	3540	3860	4190	4530
100° Ambient										
MUPM-0022-IAA	ASE12C4U-IAA	828	939	1060	1190	1340	1490	1650	1830	2000
MUPM-0024-IAA	ASE17C4U-IAA	1010	1120	1250	1390	1540	1710	1880	2070	2260
MUPM-0031-IAA	ASE21C5U-IAA	1190	1340	1510	1700	1890	2100	2320	2550	2790
MUPM-0039-IAA	ASE32C4U-IAA	1770	1970	2190	2420	2670	2930	3200	3460	3720
MUPM-0047-IAA	ASE37C5U-IAA	1960	2180	2410	2660	2930	3210			
MUPM-0048-CAA	ASE37C5U-CAA	2000	2210	2450	2700	2970	3250			
100° Ambient										
MUPM-0022-IAA	ASE12C4U-IAA	746	850	963	1090	1220	1360	1500	1660	1810
MUPM-0024-IAA	ASE17C4U-IAA	929	1030	1140	1270	1410	1560	1710	1880	2050
MUPM-0031-IAA	ASE21C5U-IAA	1100	1240	1390	1550	1720	1900	2090		
MUPM-0039-IAA	ASE32C4U-IAA	1600	1790	1990	2210	2430	2660	2890		
MUPM-0047-IAA	ASE37C5U-IAA	1780	1980							
MUPM-0048-CAA	ASE37C5U-CAA	1830	2030							

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

R-404A Condensate Base LT/EMT

Copevap welded air-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30
90° Ambient														
M6TL-0018-IAA	AFE06C4E-IAA	512	582	661	748	842	943	1050	1160	1280				
M6TL-0022-IAA	AFE08C4E-IAA	645	731	825	927	1030	1150	1270	1390	1520				
M6PL-0023-IAA	AFE08C4E-IAA	651	739	834	939	1050	1170	1290	1420	1550				
M6TL-0029-IAA	AFE11C4E-IAA	840	955	1080	1220	1370	1530	1700	1880	2060				
M6EL-0030-IAA	AFE11C4E-IAA	853	971	1100	1240	1400	1560	1740	1920	2110				
M6PL-0030-IAA	AFE11C4E-IAA	853	971	1100	1240	1400	1560	1740	1920	2110				
M6EL-H032-IAA	AFE11C4E-IAA	872	993	1130	1270	1430	1600	1790	1980	2170				
M6TL-0037-IAA	AFE13C4E-IAA	1100	1250	1410	1580	1760	1950	2150	2350	2560				
M6EL-0038-IAA	AFE13C4E-IAA	1120	1270	1430	1610	1800	2000	2200	2420	2640				
M6PL-0038-IAA	AFE13C4E-IAA	1120	1270	1430	1610	1800	2000	2200	2420	2640				
M6EL-H042-IAA	AFE13C4E-IAA	1140	1300	1470	1650	1850	2060	2280	2500	2740				
M6TL-0040-IAA	AFE14C5E-IAA	1160	1330	1500	1690	1880	2090	2310	2530	2760				
M6TL-0040-IAV	AFE14C5E-IAV	1160	1330	1500	1690	1880	2090	2310	2530	2760				
M6EL-0041-IAA	AFE14C5E-IAA	1190	1350	1530	1730	1930	2150	2370	2610	2860				
M6PL-0041-IAA	AFE14C5E-IAA	1190	1350	1530	1730	1930	2150	2370	2610	2860				
M6EL-H043-IAA	AFE14C5E-IAA	1220	1390	1580	1780	1990	2220	2460	2720	2980				
M6EL-H043-IAV	AFE14C5E-IAV	1220	1390	1580	1780	1990	2220	2460	2720	2980				
M6EL-H054-CAA	AFE17C4E-CAA	1400	1590	1790	2010	2240	2490	2740	3000	3270				
M6EL-H054-IAA	AFE17C4E-IAA	1400	1590	1790	2010	2240	2490	2740	3000	3270				
M6EL-H054-IAV	AFE17C4E-IAV	1400	1590	1790	2010	2240	2490	2740	3000	3270				
M6EL-0048-CAA	AFE17C4E-CAA	1440	1640	1840	2070	2300	2550	2800	3060	3320				
M6EL-0052-IAA	AFE20C5E-IAA	1550	1770	2000	2240	2490	2740	3010	3270	3540				
M6PL-0052-IAA	AFE20C5E-IAA	1550	1770	2000	2240	2490	2740	3010	3270	3540				
M6EL-H056-IAA	AFE20C5E-IAA	1600	1830	2070	2330	2600	2880	3170	3470	3780				
M6EL-H056-IAV	AFE20C5E-IAV	1600	1830	2070	2330	2600	2880	3170	3470	3780				
M6EP-H056-CAA	RST45C1E-CAA	1540	1790	2050	2340	2640	2960	3290	3630	3970	4320	4660	5000	
M6EP-H056-IAA	RST45C1E-IAA	1540	1790	2050	2340	2640	2960	3290	3630	3970	4320	4660	5000	
M6BP-0064-CAA	RST45C1E-CAA	1470	1840	2220	2600	2980	3380	3790	4200	4640	5090	5560	6050	
M6BP-0064-CAV	RST45C1E-CAV	1470	1840	2220	2600	2980	3380	3790	4200	4640	5090	5560	6050	
M6PL-0060-CAV	AFE23C5E-CAV	2000	2270	2550	2850	3170	3500	3500	3500	3500				
M6EL-0068-CAA	AFE26C5E-CAA	2170	2460	2770	3090	3420	3770	3770	3770	3770				
M6BP-0075-CAA	RST55C1E-CAA	2300	2590	2920	3290	3690	4130	4590	5080	5590	6120	6660	7210	
M6BP-0075-CAV	RST55C1E-CAV	2300	2590	2920	3290	3690	4130	4590	5080	5590	6120	6660	7210	
M6BP-0092-CAV	RST64C1E-CAV	2660	3110	3580	4050	4540	5040	5560	6090	6630	7190	7750	8330	
M6BP-0092-CFA	RST64C1E-CFA	2660	3110	3580	4050	4540	5040	5560	6090	6630	7190	7750	8330	
M6BP-0096-CFV	RST70C1E-PFV	2620	3080	3570	4100	4650	5230	5820	6430	7050	7680	8310	8940	
M6BP-0106-CFV	RST80C1E-PFV	3150	3650	4170	4720	5300	5900	6520	7160	7810	8460	9120	9800	
M6BL-0123-CFA	RFT42C1E-PFA	2840	3310	3820	4350	4900	5470	6040	6630	7210				
M6BL-0123-CFV	RFT42C1E-PFV	2840	3310	3820	4350	4900	5470	6040	6630	7210				
M6BP-0116-CFV	RST97C1E-PFV	3580	4090	4650	5260	5900	6560	7240	7920	8590	9240	9890	10500	

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



R-404A Condensate Base LT/EMT

Copevap welded air-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30
100° Ambient														
M6TL-0018-IAA	AFE06C4E-IAA	466	531	604	683	768	859	956	1060	1160				
M6TL-0022-IAA	AFE08C4E-IAA	589	667	752	844	941	1040	1150	1260	1370				
M6PL-0023-IAA	AFE08C4E-IAA	592	673	761	855	956	1060	1170	1290	1400				
M6TL-0029-IAA	AFE11C4E-IAA	754	861	977	1100	1240	1380	1530	1680	1840				
M6EL-0030-IAA	AFE11C4E-IAA	762	872	993	1120	1270	1410	1570	1730	1900				
M6PL-0030-IAA	AFE11C4E-IAA	762	872	993	1120	1270	1410	1570	1730	1900				
M6EL-H032-IAA	AFE11C4E-IAA	767	881	1010	1140	1290	1450	1620	1800	1980				
M6TL-0037-IAA	AFE13C4E-IAA	985	1120	1270	1420	1590	1760	1930	2110	2290				
M6EL-0038-IAA	AFE13C4E-IAA	1000	1150	1300	1460	1630	1810	2000	2190	2380				
M6PL-0038-IAA	AFE13C4E-IAA	1000	1150	1300	1460	1630	1810	2000	2190	2380				
M6EL-H042-IAA	AFE13C4E-IAA	1020	1170	1330	1500	1690	1880	2090	2300	2510				
M6TL-0040-IAA	AFE14C5E-IAA	1040	1190	1340	1500	1670	1850	2040	2230	2430				
M6TL-0040-IAV	AFE14C5E-IAV	1040	1190	1340	1500	1670	1850	2040	2230	2430				
M6EL-0041-IAA	AFE14C5E-IAA	1060	1210	1380	1550	1730	1920	2120	2330	2550				
M6PL-0041-IAA	AFE14C5E-IAA	1060	1210	1380	1550	1730	1920	2120	2330	2550				
M6EL-H043-IAA	AFE14C5E-IAA	1080	1240	1420	1600	1800	2010	2230	2470	2720				
M6EL-H043-IAV	AFE14C5E-IAV	1080	1240	1420	1600	1800	2010	2230	2470	2720				
M6EL-H054-CAA	AFE17C4E-CAA	1250	1420	1610	1810	2020	2240	2480	2710	2950				
M6EL-H054-IAA	AFE17C4E-IAA	1250	1420	1610	1810	2020	2240	2480	2710	2950				
M6EL-H054-IAV	AFE17C4E-IAV	1250	1420	1610	1810	2020	2240	2480	2710	2950				
M6EL-0048-CAA	AFE17C4E-CAA	1290	1460	1650	1850	2050	2270	2490	2720	2950				
M6EL-0052-IAA	AFE20C5E-IAA	1390	1580	1780	1990	2210	2430	2650	2870	3100				
M6PL-0052-IAA	AFE20C5E-IAA	1390	1580	1780	1990	2210	2430	2650	2870	3100				
M6EP-H056-CAA	RST45C1E-CAA	1310	1540	1780	2050	2330	2620	2920	3230	3540	3850	4150	4440	
M6EP-H056-IAA	RST45C1E-IAA	1310	1540	1780	2050	2330	2620	2920	3230	3540	3850	4150	4440	
M6EL-H056-IAA	AFE20C5E-IAA	1430	1640	1860	2100	2340	2600	2860	3120	3390				
M6EL-H056-IAV	AFE20C5E-IAV	1430	1640	1860	2100	2340	2600	2860	3120	3390				
M6BP-0064-CAA	RST45C1E-CAA	1220	1590	1940	2300	2660	3030	3400	3790	4180	4590	5020	5460	
M6BP-0064-CAV	RST45C1E-CAV	1220	1590	1940	2300	2660	3030	3400	3790	4180	4590	5020	5460	
M6PL-0060-CAV	AFE23C5E-CAV	1820	2070	2320	2590	2870	3170	3170	3170	3170				
M6EL-0068-CAA	AFE26C5E-CAA	1970	2230	2510	2800	3100	3410	3410	3410	3410				
M6BP-0075-CAA	RST55C1E-CAA	2000	2250	2540	2870	3240	3640	4070	4520	4990	5480	5980	6490	
M6BP-0075-CAV	RST55C1E-CAV	2000	2250	2540	2870	3240	3640	4070	4520	4990	5480	5980	6490	
M6BP-0092-CAV	RST64C1E-CAV	2340	2760	3190	3630	4080	4540	5010	5490	5980	6480	6980	7490	
M6BP-0092-CFA	RST64C1E-CFA	2340	2760	3190	3630	4080	4540	5010	5490	5980	6480	6980	7490	
M6BP-0096-CFV	RST70C1E-PFV	2240	2670	3140	3630	4150	4690	5240	5800	6370	6930	7490	8050	
M6BP-0106-CFV	RST80C1E-PFV	2750	3190	3670	4180	4710	5260	5830	6410	7000	7590	8180	8760	
M6BL-0123-CFA	RFT42C1E-PFA	2520	2960	3420	3900	4400	4900	5420	5940	6450				
M6BL-0123-CFV	RFT42C1E-PFV	2520	2960	3420	3900	4400	4900	5420	5940	6450				
M6BP-0116-CFV	RST97C1E-PFV	3110	3580	4100	4660	5250	5860	6480	7100	7690	8260	8800	9300	

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

R-404A Condensate Base LT/EMT

Copevap welded air-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30
110° Ambient														
M6TL-0018-IAA	AFE06C4E-IAA	410	470	535	607	685	768	855	946	1040				
M6TL-0022-IAA	AFE08C4E-IAA	493	571	653	741	834	930	1030	1130	1230				
M6PL-0023-IAA	AFE08C4E-IAA	508	586	670	759	853	952	1050	1160	1260				
M6TL-0029-IAA	AFE11C4E-IAA		766	873	987	1110	1240	1370	1500	1640				
M6EL-0030-IAA	AFE11C4E-IAA	681	781	891	1010	1130	1270	1410	1550	1690				
M6PL-0030-IAA	AFE11C4E-IAA	681	781	891	1010	1130	1270	1410	1550	1690				
M6EL-H032-IAA	AFE11C4E-IAA	686	790	904	1030	1160	1310	1460	1610	1780				
M6TL-0037-IAA	AFE13C4E-IAA		1000	1140	1280	1430	1580	1730	1880	2030				
M6EL-0038-IAA	AFE13C4E-IAA		1030	1170	1310	1470	1630	1790	1950	2120				
M6PL-0038-IAA	AFE13C4E-IAA		1030	1170	1310	1470	1630	1790	1950	2120				
M6TL-0040-IAA	AFE14C5E-IAA		1040	1180	1320	1470	1630	1790	1950	2120				
M6TL-0040-IAV	AFE14C5E-IAV		1040	1180	1320	1470	1630	1790	1950	2120				
M6EL-H042-IAA	AFE13C4E-IAA	911	1050	1200	1360	1520	1700	1880	2070	2260				
M6EL-0041-IAA	AFE14C5E-IAA		1070	1210	1370	1520	1690	1860	2040	2230				
M6PL-0041-IAA	AFE14C5E-IAA		1070	1210	1370	1520	1690	1860	2040	2230				
M6EL-H043-IAA	AFE14C5E-IAA	953	1100	1250	1420	1600	1790	1980	2190	2410				
M6EL-H043-IAV	AFE14C5E-IAV	953	1100	1250	1420	1600	1790	1980	2190	2410				
M6EL-H054-CAA	AFE17C4E-CAA		1260	1420	1600	1790	1980	2180	2380	2580				
M6EL-H054-IAA	AFE17C4E-IAA		1260	1420	1600	1790	1980	2180	2380	2580				
M6EL-H054-IAV	AFE17C4E-IAV		1260	1420	1600	1790	1980	2180	2380	2580				
M6EL-0048-CAA	AFE17C4E-CAA		1290	1460	1630	1820	2000	2200	2390	2580				
M6EL-0052-IAA	AFE20C5E-IAA		1390	1570	1740	1920	2110	2290	2460					
M6PL-0052-IAA	AFE20C5E-IAA		1390	1570	1740	1920	2110	2290	2460					
M6EP-H056-CAA	RST45C1E-CAA		1300	1520	1760	2010	2270	2530	2800	3070	3330	3590		
M6EP-H056-IAA	RST45C1E-IAA		1300	1520	1760	2010	2270	2530	2800	3070	3330	3590		
M6EL-H056-IAA	AFE20C5E-IAA		1460	1650	1850	2060	2280	2500	2730	2950				
M6EL-H056-IAV	AFE20C5E-IAV		1460	1650	1850	2060	2280	2500	2730	2950				
M6BP-0064-CAA	RST45C1E-CAA	996	1340	1680	2010	2340	2670	3010	3350	3700	4070	4440	4830	
M6BP-0064-CAV	RST45C1E-CAV	996	1340	1680	2010	2340	2670	3010	3350	3700	4070	4440	4830	
M6PL-0060-CAV	AFE23C5E-CAV			2080	2320	2570	2820	2820	2820					
M6BP-0075-CAA	RST55C1E-CAA	1730	1940	2190	2490	2810	3170	3550	3960	4390	4830	5280	5740	
M6BP-0075-CAV	RST55C1E-CAV	1730	1940	2190	2490	2810	3170	3550	3960	4390	4830	5280	5740	
M6EL-0068-CAA	AFE26C5E-CAA				2500	2770								
M6BP-0096-CFV	RST70C1E-PFV		2250	2680	3140	3620	4100	4600	5100	5600	6090	6560	7010	
M6BP-0092-CAV	RST64C1E-CAV		2390	2780	3180	3590	4000	4410	4830	5250	5680	6090	6480	
M6BP-0092-CFA	RST64C1E-CFA		2390	2780	3180	3590	4000	4410	4830	5250	5680	6090	6480	
M6BP-0106-CFV	RST80C1E-PFV		2780	3200	3640	4110	4600	5100	5600	6110	6600	7090		
M6BL-0123-CFA	RFT42C1E-PFA	2610	3020	3440	3870	4310	4750	5180	5600					
M6BL-0123-CFV	RFT42C1E-PFV	2610	3020	3440	3870	4310	4750	5180	5600					
M6BP-0116-CFV	RST97C1E-PFV		3080	3550	4050	4580	5120	5670	6190	6680				

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

R-404A Condensate Base MT

Copevap welded air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30
90° Ambient										
M6TM-0020-IAA	ASE12C4E-IAA	841	950	1070	1200	1350	1500	1660	1830	2010
M6PM-0020-IAA	ASE12C4E-IAA	855	967	1090	1230	1370	1530	1700	1880	2060
M6EM-H022-IAA	ASE12C4E-IAA	875	989	1120	1260	1410	1570	1750	1940	2130
M6TM-0022-IAA	ASE14C4E-IAA	1040	1160	1300	1450	1600	1760	1940	2120	2310
M6PM-0023-IAA	ASE14C4E-IAA	1060	1190	1320	1470	1640	1810	1990	2180	2380
M6EM-H026-IAA	ASE14C4E-IAA	1080	1210	1360	1510	1680	1860	2060	2260	2480
M6TM-0027-IAA	ASE20C4E-IAA	1190	1410	1610	1800	1990	2170	2360	2550	2760
M6TM-0027-IAV	ASE20C4E-IAV	1190	1410	1610	1800	1990	2170	2360	2550	2760
M6PM-0028-CAA	ASE20C4E-CAA	1190	1420	1640	1840	2040	2230	2430	2650	2870
M6PM-0028-IAA	ASE20C4E-IAA	1190	1420	1640	1840	2040	2230	2430	2650	2870
M6TM-0028-IAA	ASE24C5E-IAA	1260	1520	1740	1940	2120	2320	2540	2790	3090
M6PM-0030-IAA	ASE24C5E-IAA	1290	1560	1790	1990	2180	2390	2620	2890	3210
M6EM-H032-CAA	ASE20C4E-CAA	1440	1560	1720	1910	2130	2370	2630	2890	3150
M6EM-H034-IAA	ASE24C5E-IAA	1340	1610	1840	2050	2260	2480	2730	3030	3390
M6TM-0032-IAA	ASE28C5E-IAA	1840	1900	2010	2180	2390	2640	2930	3260	3600
M6TM-0032-IAV	ASE28C5E-IAV	1840	1900	2010	2180	2390	2640	2930	3260	3600
M6EM-H040-IAA	ASE28C5E-IAA	1960	2030	2150	2340	2580	2870	3200	3580	4000
M6EM-H051-IAA	ASE39C5E-IAA	2550	2670	2860	3100	3390	3720	4090	4480	4890
100° Ambient										
M6TM-0020-IAA	ASE12C4E-IAA	749	848	957	1080	1200	1340	1480	1620	1780
M6PM-0020-IAA	ASE12C4E-IAA	757	860	973	1100	1230	1370	1520	1680	1840
M6EM-H022-IAA	ASE12C4E-IAA	762	868	987	1120	1260	1410	1570	1740	1920
M6TM-0022-IAA	ASE14C4E-IAA		1050	1170	1290	1430	1570	1720	1880	2040
M6PM-0023-IAA	ASE14C4E-IAA		1070	1190	1330	1470	1620	1780	1950	2130
M6EM-H026-IAA	ASE14C4E-IAA	965	1090	1220	1360	1510	1680	1850	2040	2230
M6TM-0027-IAA	ASE20C4E-IAA		1350	1510	1650	1780	1920	2060	2210	2380
M6TM-0027-IAV	ASE20C4E-IAV		1350	1510	1650	1780	1920	2060	2210	2380
M6PM-0028-CAA	ASE20C4E-CAA		1360	1530	1690	1840	2000	2160	2330	2510
M6PM-0028-IAA	ASE20C4E-IAA		1360	1530	1690	1840	2000	2160	2330	2510
M6TM-0028-IAA	ASE24C5E-IAA		1340	1550	1720	1880	2050	2230	2440	2690
M6PM-0030-IAA	ASE24C5E-IAA		1380	1600	1780	1950	2130	2330	2560	2840
M6EM-H032-CAA	ASE20C4E-CAA		1400	1540	1710	1910	2130	2370	2610	2850
M6EM-H034-IAA	ASE24C5E-IAA		1430	1650	1850	2040	2240	2470	2730	3050
M6TM-0032-IAA	ASE28C5E-IAA			1770	1910	2090	2310	2560	2840	3140
M6TM-0032-IAV	ASE28C5E-IAV			1770	1910	2090	2310	2560	2840	3140
M6EM-H040-IAA	ASE28C5E-IAA		1830	1940	2100	2320	2580	2890	3240	3620
M6EM-H051-IAA	ASE39C5E-IAA			2590	2810	3070	3370	3690	4030	4370
110° Ambient										
M6TM-0020-IAA	ASE12C4E-IAA			841	947	1060	1180	1300	1430	1560
M6PM-0020-IAA	ASE12C4E-IAA			861	970	1090	1210	1340	1480	1620
M6EM-H022-IAA	ASE12C4E-IAA			874	990	1120	1250	1390	1540	1700
M6TM-0022-IAA	ASE14C4E-IAA			1040	1150	1270	1390	1530	1670	1810
M6PM-0023-IAA	ASE14C4E-IAA			1060	1180	1310	1440	1580	1720	1880
M6EM-H026-IAA	ASE14C4E-IAA			1090	1220	1350	1500	1650	1810	1990
M6TM-0027-IAA	ASE20C4E-IAA				1510	1600	1700	1790	1900	2030
M6TM-0027-IAV	ASE20C4E-IAV				1510	1600	1700	1790	1900	2030
M6PM-0028-CAA	ASE20C4E-CAA				1550	1650	1760	1870	2000	2140
M6PM-0028-IAA	ASE20C4E-IAA				1550	1650	1760	1870	2000	2140
M6TM-0028-IAA	ASE24C5E-IAA				1530	1670	1810	1960	2130	2350
M6PM-0030-IAA	ASE24C5E-IAA				1580	1730	1880	2040	2230	2460
M6EM-H032-CAA	ASE20C4E-CAA				1370	1520	1700	1890	2090	2510
M6EM-H034-IAA	ASE24C5E-IAA				1470	1650	1820	1990	2180	2410
M6TM-0032-IAA	ASE28C5E-IAA					1670	1820	2010	2220	
M6TM-0032-IAV	ASE28C5E-IAV					1670	1820	2010	2220	
M6EM-H040-IAA	ASE28C5E-IAA				1720	1860	2040	2270	2540	2850
M6EM-H051-IAA	ASE39C5E-IAA					2480	2700	2940	3200	3470

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

R-448A Condensate Base LT

Copeland air-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0	5	10	15
90° Ambient										
M6TL-0018-IAA	AFE06C4E-IAA	418	478	552	638	735	843	960	1090	1220
M6TL-0022-IAA	AFE08C4E-IAA	605	692	796	917	1050	1200	1360	1520	1700
M6PL-0023-IAA	AFE08C4E-IAA	609	698	804	926	1060	1210	1380	1550	1730
M6TL-0029-IAA	AFE11C4E-IAA	703	804	925	1060	1220	1380	1560	1750	1950
M6EL-0030-IAA	AFE11C4E-IAA	710	812	935	1080	1230	1410	1590	1790	1990
M6EL-H032-IAA	AFE11C4E-IAA	711	815	940	1080	1250	1420	1620	1820	2030
M6PL-0030-IAA	AFE11C4E-IAA	710	812	935	1080	1230	1410	1590	1790	1990
M6TL-0037-IAA	AFE13C4E-IAA	904	1030	1180	1360	1550	1760	1980	2210	2450
M6EL-0038-IAA	AFE13C4E-IAA	915	1050	1200	1380	1580	1790	2020	2260	2510
M6PL-0038-IAA	AFE13C4E-IAA	915	1050	1200	1380	1580	1790	2020	2260	2510
M6EL-H042-IAA	AFE13C4E-IAA	921	1050	1210	1400	1600	1830	2070	2320	2590
M6TL-0040-IAA	AFE14C5E-IAA	1020	1150	1310	1480	1670	1870	2080	2300	2530
M6TL-0040-IAV	AFE14C5E-IAV	1020	1150	1310	1480	1670	1870	2080	2300	2530
M6EL-0041-IAA	AFE14C5E-IAA	1030	1170	1330	1500	1700	1900	2120	2360	2600
M6PL-0041-IAA	AFE14C5E-IAA	1030	1170	1330	1500	1700	1900	2120	2360	2600
M6EL-H043-IAA	AFE14C5E-IAA	1040	1200	1390	1600	1820	2060	2320	2590	2870
M6EL-H043-IAV	AFE14C5E-IAV	1040	1200	1390	1600	1820	2060	2320	2590	2870
M6EL-H054-CAA	AFE17C4E-CAA	1150	1320	1520	1740	1990	2250	2520	2800	3080
M6EL-H054-IAA	AFE17C4E-IAA	1150	1320	1520	1740	1990	2250	2520	2800	3080
M6EL-H054-IAV	AFE17C4E-IAV	1150	1320	1520	1740	1990	2250	2520	2800	3080
M6EL-0048-CAA	AFE17C4E-CAA	1260	1430	1640	1880	2130	2400	2680	2970	3260
M6EL-0052-IAA	AFE20C5E-IAA	1350	1540	1740	1970	2210	2460	2730	3000	3270
M6PL-0052-IAA	AFE20C5E-IAA	1350	1540	1740	1970	2210	2460	2730	3000	3270
M6TL-0051-IAA	AFE20C5E-IAA	1330	1520	1750	1990	2240	2510	2790	3070	3350
M6TL-0051-IAV	AFE20C5E-IAV	1330	1520	1750	1990	2240	2510	2790	3070	3350
M6EL-H056-IAA	AFE20C5E-IAA	1370	1590	1830	2090	2380	2680	3000	3320	3650
M6EL-H056-IAV	AFE20C5E-IAV	1370	1590	1830	2090	2380	2680	3000	3320	3650
M6PL-0060-CAV	AFE23C5E-CAV	1560	1790	2050	2340	2640	2960	3290	3630	3980
M6EL-H065-CAA	AFE23C5E-CAA	1650	1910	2190	2490	2810	3150	3500	3870	4240
M6EL-0068-CAA	AFE26C5E-CAA	1800	2070	2360	2670	2990	3330	3670	4020	4360
M6EL-H074-CAA	AFE26C5E-CAA	1840	2130	2440	2770	3110	3480	3850	4230	4620
M6BL-0123-CFA	RFT42C1E-PFA	2900	3270	3720	4250	4840	5460	6110	6780	
M6BL-0123-CFV	RFT42C1E-PFV	2900	3270	3720	4250	4840	5460	6110	6780	

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

R-448A Condensate Base LT

Copeland air-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0	5	10	15
100° Ambient										
M6TL-0018-IAA	AFE06C4E-IAA	383	439	507	586	675	773	879	992	1110
M6TL-0022-IAA	AFE08C4E-IAA	552	635	733	845	969	1100	1250	1400	1560
M6PL-0023-IAA	AFE08C4E-IAA	552	637	736	851	978	1120	1270	1420	1590
M6TL-0029-IAA	AFE11C4E-IAA	640	736	849	978	1120	1280	1440	1610	1790
M6EL-0030-IAA	AFE11C4E-IAA	642	740	856	988	1130	1290	1460	1640	1830
M6PL-0030-IAA	AFE11C4E-IAA	642	740	856	988	1130	1290	1460	1640	1830
M6EL-H032-IAA	AFE11C4E-IAA	642	742	860	995	1150	1310	1490	1670	1870
M6TL-0037-IAA	AFE13C4E-IAA	817	939	1080	1240	1420	1610	1820	2030	2240
M6EL-0038-IAA	AFE13C4E-IAA	825	950	1100	1260	1450	1650	1860	2080	2310
M6PL-0038-IAA	AFE13C4E-IAA	825	950	1100	1260	1450	1650	1860	2080	2310
M6EL-H042-IAA	AFE13C4E-IAA	830	958	1110	1280	1470	1680	1900	2140	2380
M6TL-0040-IAA	AFE14C5E-IAA	910	1040	1190	1360	1530	1710	1910	2110	2320
M6TL-0040-IAV	AFE14C5E-IAV	910	1040	1190	1360	1530	1710	1910	2110	2320
M6EL-0041-IAA	AFE14C5E-IAA	921	1060	1210	1380	1560	1750	1950	2160	2380
M6PL-0041-IAA	AFE14C5E-IAA	921	1060	1210	1380	1560	1750	1950	2160	2380
M6EL-H043-IAA	AFE14C5E-IAA	928	1080	1250	1440	1650	1880	2120	2360	2620
M6EL-H043-IAV	AFE14C5E-IAV	928	1080	1250	1440	1650	1880	2120	2360	2620
M6EL-H054-CAA	AFE17C4E-CAA	1060	1200	1380	1580	1810	2050	2310	2570	2830
M6EL-H054-IAA	AFE17C4E-IAA	1060	1200	1380	1580	1810	2050	2310	2570	2830
M6EL-H054-IAV	AFE17C4E-IAV	1060	1200	1380	1580	1810	2050	2310	2570	2830
M6EL-0048-CAA	AFE17C4E-CAA	1150	1310	1490	1710	1940	2190	2450	2720	2990
M6EL-0052-IAA	AFE20C5E-IAA	1210	1390	1590	1800	2020	2250	2490	2730	2970
M6PL-0052-IAA	AFE20C5E-IAA	1210	1390	1590	1800	2020	2250	2490	2730	2970
M6TL-0051-IAA	AFE20C5E-IAA	1200	1380	1580	1800	2040	2280	2530	2780	3030
M6TL-0051-IAV	AFE20C5E-IAV	1200	1380	1580	1800	2040	2280	2530	2780	3030
M6EL-H056-IAA	AFE20C5E-IAA	1240	1440	1660	1900	2160	2440	2720	3010	3310
M6EL-H056-IAV	AFE20C5E-IAV	1240	1440	1660	1900	2160	2440	2720	3010	3310
M6PL-0060-CAV	AFE23C5E-CAV	1420	1630	1870	2130	2410	2700	3010	3320	3640
M6EL-H065-CAA	AFE23C5E-CAA	1490	1740	2000	2280	2580	2890	3210	3540	3880
M6EL-0068-CAA	AFE26C5E-CAA		1890	2160	2440	2740	3040	3350	3670	
M6EL-H074-CAA	AFE26C5E-CAA	1670	1940	2230	2530	2860	3190	3530	3880	4230
M6BL-0123-CFA	RFT42C1E-PFA		3150	3500	3930	4430	4980	5570	6180	
M6BL-0123-CFV	RFT42C1E-PFV		3150	3500	3930	4430	4980	5570	6180	

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

R-448A Condensate Base LT

Copeland air-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0	5	10	15
110° Ambient										
M6TL-0018-IAA	AFE06C4E-IAA	394	437	495	564	642	729	823	923	1030
M6PL-0023-IAA	AFE08C4E-IAA	501	582	676	783	902	1030	1170	1310	1460
M6TL-0022-IAA	AFE08C4E-IAA	535	607	694	794	905	1030	1150	1290	1430
M6EL-H032-IAA	AFE11C4E-IAA		656	770	899	1040	1190	1360	1530	1710
M6EL-0030-IAA	AFE11C4E-IAA	579	672	781	905	1040	1190	1340	1500	1670
M6PL-0030-IAA	AFE11C4E-IAA	579	672	781	905	1040	1190	1340	1500	1670
M6TL-0029-IAA	AFE11C4E-IAA	607	692	792	907	1030	1170	1320	1470	1630
M6TL-0037-IAA	AFE13C4E-IAA		856	983	1130	1290	1460	1640	1820	2020
M6EL-0038-IAA	AFE13C4E-IAA		851	989	1140	1310	1490	1690	1880	2090
M6PL-0038-IAA	AFE13C4E-IAA		851	989	1140	1310	1490	1690	1880	2090
M6EL-H042-IAA	AFE13C4E-IAA		842	989	1150	1330	1530	1730	1950	2170
M6TL-0040-IAA	AFE14C5E-IAA		947	1080	1230	1390	1550	1720	1900	2080
M6TL-0040-IAV	AFE14C5E-IAV		947	1080	1230	1390	1550	1720	1900	2080
M6EL-0041-IAA	AFE14C5E-IAA		946	1090	1250	1420	1590	1770	1960	2160
M6PL-0041-IAA	AFE14C5E-IAA		946	1090	1250	1420	1590	1770	1960	2160
M6EL-H043-IAA	AFE14C5E-IAA		966	1120	1300	1490	1700	1920	2150	2390
M6EL-H043-IAV	AFE14C5E-IAV		966	1120	1300	1490	1700	1920	2150	2390
M6EL-H054-CAA	AFE17C4E-CAA			1250	1430	1640	1860	2090	2340	2590
M6EL-H054-IAA	AFE17C4E-IAA			1250	1430	1640	1860	2090	2340	2590
M6EL-H054-IAV	AFE17C4E-IAV			1250	1430	1640	1860	2090	2340	2590
M6EL-0048-CAA	AFE17C4E-CAA			1350	1540	1750	1980	2210	2460	
M6EL-0052-IAA	AFE20C5E-IAA			1410	1610	1820	2030	2240	2440	
M6PL-0052-IAA	AFE20C5E-IAA			1410	1610	1820	2030	2240	2440	
M6TL-0051-IAA	AFE20C5E-IAA				1640	1840	2060			
M6TL-0051-IAV	AFE20C5E-IAV				1640	1840	2060			
M6EL-H056-IAA	AFE20C5E-IAA			1500	1720	1960	2210	2470	2730	2990
M6EL-H056-IAV	AFE20C5E-IAV			1500	1720	1960	2210	2470	2730	2990
M6PL-0060-CAV	AFE23C5E-CAV				1930	2180	2440			
M6EL-H065-CAA	AFE23C5E-CAA			1810	2070	2340	2620	2910	3200	
M6EL-0068-CAA	AFE26C5E-CAA					2470				
M6EL-H074-CAA	AFE26C5E-CAA				2300	2600	2900	3210		
M6BL-0123-CFA	RFT42C1E-PFA			3390	3710	4100	4570	5070	5610	
M6BL-0123-CFV	RFT42C1E-PFV			3390	3710	4100	4570	5070	5610	

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

R-448A Condensate Base MT/EMT

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30
90° Ambient										
M6TM-0020-IAA	ASE12C4E-IAA	681	806	939	1080	1230	1390	1560	1740	1930
M6EM-0020-IAA	ASE12C4E-IAA	688	815	952	1100	1250	1420	1590	1780	1970
M6PM-0020-IAA	ASE12C4E-IAA	688	815	952	1100	1250	1420	1590	1780	1970
M6EM-H022-IAA	ASE12C4E-IAA	688	818	957	1110	1270	1440	1620	1810	2020
M6TM-0022-IAA	ASE14C4E-IAA	848	995	1150	1300	1470	1640	1830	2030	2240
M6EM-0023-IAA	ASE14C4E-IAA	857	1010	1160	1320	1490	1670	1870	2070	2300
M6PM-0023-IAA	ASE14C4E-IAA	857	1010	1160	1320	1490	1670	1870	2070	2300
M6EM-H026-IAA	ASE14C4E-IAA	861	1010	1170	1340	1520	1710	1910	2130	2360
M6TM-0027-IAA	ASE20C4E-IAA	983	1220	1440	1650	1840	2040	2240	2450	2690
M6TM-0027-IAV	ASE20C4E-IAV	983	1220	1440	1650	1840	2040	2240	2450	2690
M6EM-0028-IAA	ASE20C4E-IAA	984	1230	1460	1670	1880	2080	2300	2530	2770
M6PM-0028-CAA	ASE20C4E-CAA	984	1230	1460	1670	1880	2080	2300	2530	2770
M6PM-0028-IAA	ASE20C4E-IAA	984	1230	1460	1670	1880	2080	2300	2530	2770
M6EM-H032-CAA	ASE20C4E-CAA	1150	1310	1490	1700	1930	2180	2450	2730	3020
M6TM-0028-IAA	ASE24C5E-IAA	1240	1420	1600	1810	2030	2260	2510	2780	3070
M6PM-0030-IAA	ASE24C5E-IAA	1260	1440	1640	1850	2070	2320	2580	2860	3160
M6EM-H034-IAA	ASE24C5E-IAA	1280	1470	1670	1890	2130	2390	2670	2970	3280
M6TM-0032-IAA	ASE28C5E-IAA		1770	1900	2080	2300	2570	2890	3250	3650
M6TM-0032-IAV	ASE28C5E-IAV		1770	1900	2080	2300	2570	2890	3250	3650
M6EM-0034-IAA	ASE28C5E-IAA		1850	1910	2080	2340	2650	3000	3370	3740
M6EM-H040-IAA	ASE28C5E-IAA	1940	1880	1950	2140	2420	2750	3120	3520	3910
M6EM-H051-IAA	ASE39C5E-IAA		2500	2610	2860	3210	3620	4060	4500	4910
M6EP-H056-CAA	RST45C1E-CAA		2300	2610	2950	3310	3690	4100	4540	5000
M6EP-H056-IAA	RST45C1E-IAA		2300	2610	2950	3310	3690	4100	4540	5000
M6BP-0064-CAA	RST45C1E-CAA	2120	2460	2840	3260	3710	4210	4750	5340	5970
M6BP-0064-CAV	RST45C1E-CAV	2120	2460	2840	3260	3710	4210	4750	5340	5970
M6BP-0075-CAA	RST55C1E-CAA	2690	3040	3460	3940	4490	5090	5740	6430	7170
M6BP-0075-CAV	RST55C1E-CAV	2690	3040	3460	3940	4490	5090	5740	6430	7170
M6BP-0096-CFV	RST70C1E-PFV	3440	3990	4580	5180	5810	6460	7140	7830	8530
M6BP-0092-CAV	RST64C1E-CAV	3550	4040	4570	5140	5740	6400	7100	7860	8670
M6BP-0092-CFA	RST64C1E-CFA	3550	4040	4570	5140	5740	6400	7100	7860	8670
M6BP-0106-CFV	RST80C1E-PFV		4580	5200	5850	6520	7230	7960	8720	9500
M6BP-0116-CFV	RST97C1E-PFV		5140	5840	6570	7310	8070	8830	9600	10300

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

R-448A Condensate Base MT/EMT

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30
100° Ambient										
M6TM-0020-IAA	ASE12C4E-IAA		726	849	979	1120	1260	1420	1580	1760
M6EM-0020-IAA	ASE12C4E-IAA		730	856	990	1130	1280	1440	1610	1800
M6PM-0020-IAA	ASE12C4E-IAA		730	856	990	1130	1280	1440	1610	1800
M6EM-H022-IAA	ASE12C4E-IAA		731	860	998	1140	1300	1470	1650	1840
M6TM-0022-IAA	ASE14C4E-IAA		905	1040	1190	1340	1500	1670	1850	2050
M6EM-0023-IAA	ASE14C4E-IAA		915	1060	1210	1360	1530	1700	1900	2100
M6PM-0023-IAA	ASE14C4E-IAA		915	1060	1210	1360	1530	1700	1900	2100
M6EM-H026-IAA	ASE14C4E-IAA		921	1070	1220	1380	1560	1740	1940	2160
M6TM-0027-IAA	ASE20C4E-IAA			1370	1530	1690	1850	2020	2200	2400
M6TM-0027-IAV	ASE20C4E-IAV			1370	1530	1690	1850	2020	2200	2400
M6EM-0028-IAA	ASE20C4E-IAA		1190	1380	1560	1730	1900	2080	2280	2490
M6PM-0028-CAA	ASE20C4E-CAA		1190	1380	1560	1730	1900	2080	2280	2490
M6PM-0028-IAA	ASE20C4E-IAA		1190	1380	1560	1730	1900	2080	2280	2490
M6EM-H032-CAA	ASE20C4E-CAA		1190	1350	1540	1750	1980	2230	2490	2760
M6TM-0028-IAA	ASE24C5E-IAA			1450	1630	1830	2050	2280	2520	2790
M6PM-0030-IAA	ASE24C5E-IAA		1300	1480	1670	1880	2100	2340	2600	2880
M6EM-H034-IAA	ASE24C5E-IAA		1320	1510	1710	1930	2170	2420	2700	3000
M6TM-0032-IAA	ASE28C5E-IAA			1740	1910	2110	2360	2650	2970	3340
M6TM-0032-IAV	ASE28C5E-IAV			1740	1910	2110	2360	2650	2970	3340
M6EM-0034-IAA	ASE28C5E-IAA			1760	1900	2120	2400	2730	3080	3430
M6EM-H040-IAA	ASE28C5E-IAA			1800	1940	2180	2490	2840	3210	3590
M6EP-H056-CAA	RST45C1E-CAA			2350	2660	2980	3330	3700	4090	4500
M6EP-H056-IAA	RST45C1E-IAA			2350	2660	2980	3330	3700	4090	4500
M6EM-H051-IAA	ASE39C5E-IAA			2410	2610	2910	3290	3690	4090	4470
M6BP-0064-CAA	RST45C1E-CAA		2210	2550	2930	3350	3810	4310	4840	5420
M6BP-0064-CAV	RST45C1E-CAV		2210	2550	2930	3350	3810	4310	4840	5420
M6BP-0075-CAA	RST55C1E-CAA		2680	3060	3500	4010	4560	5170	5830	6520
M6BP-0075-CAV	RST55C1E-CAV		2680	3060	3500	4010	4560	5170	5830	6520
M6BP-0092-CAV	RST64C1E-CAV			4180	4700	5260	5860	6500	7200	7950
M6BP-0092-CFA	RST64C1E-CFA			4180	4700	5260	5860	6500	7200	7950
M6BP-0096-CFV	RST70C1E-PFV			4140	4720	5320	5930	6560	7200	7860
M6BP-0106-CFV	RST80C1E-PFV			4690	5300	5940	6600	7290	8000	8740
M6BP-0116-CFV	RST97C1E-PFV				5980	6680	7400	8110	8830	

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

R-448A Condensate Base MT/EMT

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30
110° Ambient										
M6TM-0020-IAA	ASE12C4E-IAA			790	904	1020	1150	1290	1430	1590
M6EM-0020-IAA	ASE12C4E-IAA			779	900	1030	1160	1310	1460	1620
M6PM-0020-IAA	ASE12C4E-IAA			779	900	1030	1160	1310	1460	1620
M6EM-H022-IAA	ASE12C4E-IAA			767	893	1030	1170	1320	1480	1660
M6TM-0022-IAA	ASE14C4E-IAA			960	1090	1220	1370	1520	1690	1870
M6EM-0023-IAA	ASE14C4E-IAA			962	1100	1240	1390	1550	1730	1920
M6PM-0023-IAA	ASE14C4E-IAA			962	1100	1240	1390	1550	1730	1920
M6EM-H026-IAA	ASE14C4E-IAA			959	1100	1250	1410	1580	1770	1970
M6TM-0027-IAA	ASE20C4E-IAA				1430	1550	1680	1800	1950	2120
M6TM-0027-IAV	ASE20C4E-IAV				1430	1550	1680	1800	1950	2120
M6EM-0028-IAA	ASE20C4E-IAA				1450	1580	1720	1860	2020	2200
M6PM-0028-CAA	ASE20C4E-CAA				1450	1580	1720	1860	2020	2200
M6PM-0028-IAA	ASE20C4E-IAA				1450	1580	1720	1860	2020	2200
M6EM-H032-CAA	ASE20C4E-CAA				1380	1570	1780	2010	2250	2510
M6TM-0028-IAA	ASE24C5E-IAA				1470	1640	1830	2040	2260	
M6PM-0030-IAA	ASE24C5E-IAA				1500	1690	1890	2110	2340	2590
M6EM-H034-IAA	ASE24C5E-IAA				1530	1730	1950	2190	2440	2720
M6TM-0032-IAA	ASE28C5E-IAA					1920	2140			
M6TM-0032-IAV	ASE28C5E-IAV					1920	2140			
M6EM-0034-IAA	ASE28C5E-IAA				1730	1910	2160	2460	2790	
M6EM-H040-IAA	ASE28C5E-IAA				1770	1970	2250	2580	2930	3290
M6EP-H056-CAA	RST45C1E-CAA					2670	2980	3300		
M6EP-H056-IAA	RST45C1E-IAA					2670	2980	3300		
M6EM-H051-IAA	ASE39C5E-IAA					2620	2950	3310		
M6BP-0064-CAA	RST45C1E-CAA				2620	3000	3420	3870	4360	4890
M6BP-0064-CAV	RST45C1E-CAV				2620	3000	3420	3870	4360	4890
M6BP-0075-CAA	RST55C1E-CAA				3110	3570	4090	4660	5280	5940
M6BP-0075-CAV	RST55C1E-CAV				3110	3570	4090	4660	5280	5940
M6BP-0096-CFV	RST70C1E-PFV				4250	4820	5390	5980	6580	
M6BP-0092-CAV	RST64C1E-CAV				4280	4780	5330	5920		
M6BP-0092-CFA	RST64C1E-CFA				4280	4780	5330	5920		
M6BP-0106-CFV	RST80C1E-PFV					5380	6000			
M6BP-0116-CFV	RST97C1E-PFV					6080				

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

R-449A Condensate Base LT

Copeland air-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0	5	10	15
90° Ambient										
M6TL-0018-IAA	AFE06C4E-IAA	419	479	553	639	737	845	962	1090	1220
M6TL-0022-IAA	AFE08C4E-IAA	606	693	798	918	1050	1200	1360	1520	1700
M6PL-0023-IAA	AFE08C4E-IAA	611	700	806	928	1070	1220	1380	1550	1730
M6TL-0029-IAA	AFE11C4E-IAA	705	806	926	1060	1220	1390	1570	1760	1950
M6EL-0030-IAA	AFE11C4E-IAA	711	814	937	1080	1240	1410	1590	1790	1990
M6PL-0030-IAA	AFE11C4E-IAA	711	814	937	1080	1240	1410	1590	1790	1990
M6QL-H032-IAA	AFE11C4E-IAA	711	814	938	1080	1240	1420	1600	1800	2010
M6EL-H032-IAA	AFE11C4E-IAA	712	816	941	1090	1250	1430	1620	1820	2040
M6TL-0037-IAA	AFE13C4E-IAA	906	1030	1190	1360	1550	1760	1980	2220	2450
M6EL-0038-IAA	AFE13C4E-IAA	917	1050	1200	1380	1580	1800	2020	2260	2510
M6PL-0038-IAA	AFE13C4E-IAA	917	1050	1200	1380	1580	1800	2020	2260	2510
M6EL-H042-IAA	AFE13C4E-IAA	922	1060	1220	1400	1610	1830	2070	2320	2590
M6TL-0040-IAA	AFE14C5E-IAA	1020	1160	1310	1480	1670	1870	2080	2310	2540
M6EL-0040-IAV	AFE14C5E-IAV	1020	1160	1310	1480	1670	1870	2080	2310	2540
M6EL-0041-IAA	AFE14C5E-IAA	1030	1170	1330	1510	1700	1910	2130	2360	2600
M6PL-0041-IAA	AFE14C5E-IAA	1030	1170	1330	1510	1700	1910	2130	2360	2600
M6EL-H043-IAA	AFE14C5E-IAA	1040	1200	1390	1600	1820	2070	2320	2590	2870
M6EL-H043-IAV	AFE14C5E-IAV	1040	1200	1390	1600	1820	2070	2320	2590	2870
M6EL-H054-CAA	AFE17C4E-CAA	1150	1320	1520	1740	1990	2250	2520	2800	3080
M6EL-H054-IAA	AFE17C4E-IAA	1150	1320	1520	1740	1990	2250	2520	2800	3080
M6EL-H054-IAV	AFE17C4E-IAV	1150	1320	1520	1740	1990	2250	2520	2800	3080
M6EL-0048-CAA	AFE17C4E-CAA	1260	1440	1650	1880	2130	2400	2680	2970	3260
M6EL-0052-IAA	AFE20C5E-IAA	1360	1540	1750	1970	2210	2470	2730	3000	3270
M6PL-0052-IAA	AFE20C5E-IAA	1360	1540	1750	1970	2210	2470	2730	3000	3270
M6TL-0051-IAA	AFE20C5E-IAA	1330	1530	1750	1990	2250	2520	2790	3070	3350
M6TL-0051-IAV	AFE20C5E-IAV	1330	1530	1750	1990	2250	2520	2790	3070	3350
M6EL-H056-IAA	AFE20C5E-IAA	1380	1590	1830	2100	2380	2690	3000	3320	3650
M6EL-H056-IAV	AFE20C5E-IAV	1380	1590	1830	2100	2380	2690	3000	3320	3650
M6PL-0060-CAV	AFE23C5E-CAV	1560	1800	2060	2340	2640	2960	3290	3630	3980
M6EL-H065-CAA	AFE23C5E-CAA	1650	1910	2190	2490	2820	3150	3510	3870	4240
M6EL-0068-CAA	AFE26C5E-CAA	1800	2070	2370	2670	3000	3330	3670	4020	4360
M6EL-H074-CAA	AFE26C5E-CAA	1840	2130	2440	2770	3120	3480	3850	4230	4620
M6BL-0123-CFA	RFT42C1E-PFA	2910	3270	3730	4250	4840	5460	6110	6780	
M6BL-0123-CFV	RFT42C1E-PFV	2910	3270	3730	4250	4840	5460	6110	6780	

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

R-449A Condensate Base LT

Copeland air-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0	5	10	15
100° Ambient										
M6TL-0018-IAA	AFE06C4E-IAA	383	440	508	586	676	774	880	994	1110
M6TL-0022-IAA	AFE08C4E-IAA	553	636	734	846	971	1110	1250	1400	1560
M6PL-0023-IAA	AFE08C4E-IAA	554	638	738	853	980	1120	1270	1430	1590
M6TL-0029-IAA	AFE11C4E-IAA	641	737	850	980	1120	1280	1440	1620	1800
M6EL-0030-IAA	AFE11C4E-IAA	644	742	858	990	1140	1300	1470	1650	1830
M6PL-0030-IAA	AFE11C4E-IAA	644	742	858	990	1140	1300	1470	1650	1830
M6QL-H032-IAA	AFE11C4E-IAA	644	743	859	993	1140	1300	1480	1660	1850
M6EL-H032-IAA	AFE11C4E-IAA	644	744	862	997	1150	1310	1490	1680	1870
M6TL-0037-IAA	AFE13C4E-IAA	818	940	1080	1250	1420	1620	1820	2030	2250
M6EL-0038-IAA	AFE13C4E-IAA	827	952	1100	1270	1450	1650	1860	2080	2310
M6PL-0038-IAA	AFE13C4E-IAA	827	952	1100	1270	1450	1650	1860	2080	2310
M6EL-H042-IAA	AFE13C4E-IAA	832	961	1110	1280	1480	1680	1910	2140	2380
M6TL-0040-IAA	AFE14C5E-IAA	911	1050	1200	1360	1530	1720	1910	2110	2320
M6TL-0040-IAV	AFE14C5E-IAV	911	1050	1200	1360	1530	1720	1910	2110	2320
M6EL-0041-IAA	AFE14C5E-IAA	923	1060	1210	1380	1560	1750	1960	2170	2390
M6PL-0041-IAA	AFE14C5E-IAA	923	1060	1210	1380	1560	1750	1960	2170	2390
M6EL-H043-IAA	AFE14C5E-IAA	931	1080	1260	1450	1660	1880	2120	2370	2630
M6EL-H043-IAV	AFE14C5E-IAV	931	1080	1260	1450	1660	1880	2120	2370	2630
M6EL-H054-CAA	AFE17C4E-CAA	1060	1210	1380	1590	1810	2050	2310	2570	2840
M6EL-H054-IAA	AFE17C4E-IAA	1060	1210	1380	1590	1810	2050	2310	2570	2840
M6EL-H054-IAV	AFE17C4E-IAV	1060	1210	1380	1590	1810	2050	2310	2570	2840
M6EL-0048-CAA	AFE17C4E-CAA	1160	1310	1500	1710	1940	2190	2450	2720	2990
M6EL-0052-IAA	AFE20C5E-IAA	1210	1390	1590	1800	2030	2260	2490	2730	2970
M6PL-0052-IAA	AFE20C5E-IAA	1210	1390	1590	1800	2030	2260	2490	2730	2970
M6TL-0051-IAA	AFE20C5E-IAA	1200	1380	1590	1810	2040	2280	2530	2780	3030
M6TL-0051-IAV	AFE20C5E-IAV	1200	1380	1590	1810	2040	2280	2530	2780	3030
M6EL-H056-IAA	AFE20C5E-IAA	1240	1440	1660	1900	2160	2440	2720	3010	3310
M6EL-H056-IAV	AFE20C5E-IAV	1240	1440	1660	1900	2160	2440	2720	3010	3310
M6PL-0060-CAV	AFE23C5E-CAV	1420	1630	1870	2130	2410	2700	3010	3320	3640
M6EL-H065-CAA	AFE23C5E-CAA	1500	1740	2010	2290	2580	2890	3210	3540	3880
M6EL-0068-CAA	AFE26C5E-CAA		1890	2160	2450	2740	3050	3350	3670	
M6EL-H074-CAA	AFE26C5E-CAA	1670	1940	2230	2540	2860	3190	3530	3880	4230
M6BL-0123-CFA	RFT42C1E-PFA		3150	3500	3930	4430	4980	5570	6170	
M6BL-0123-CFV	RFT42C1E-PFV		3150	3500	3930	4430	4980	5570	6170	

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

R-449A Condensate Base LT

Copeland air-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0	5	10	15
110° Ambient										
M6TL-0018-IAA	AFE06C4E-IAA	383	432	492	562	641	729	823	924	1030
M6PL-0023-IAA	AFE08C4E-IAA	502	583	678	785	903	1030	1170	1310	1460
M6TL-0022-IAA	AFE08C4E-IAA	531	605	693	793	905	1030	1160	1290	1430
M6QL-H032-IAA	AFE11C4E-IAA		657	769	896	1040	1190	1350	1510	1690
M6EL-H032-IAA	AFE11C4E-IAA		657	771	900	1040	1200	1360	1530	1710
M6EL-0030-IAA	AFE11C4E-IAA	580	674	783	906	1040	1190	1340	1510	1670
M6PL-0030-IAA	AFE11C4E-IAA	580	674	783	906	1040	1190	1340	1510	1670
M6TL-0029-IAA	AFE11C4E-IAA	605	691	792	908	1040	1170	1320	1480	1630
M6TL-0037-IAA	AFE13C4E-IAA		856	984	1130	1290	1460	1640	1830	2020
M6EL-0038-IAA	AFE13C4E-IAA		853	991	1150	1320	1500	1690	1890	2090
M6EL-H042-IAA	AFE13C4E-IAA		844	990	1150	1340	1530	1740	1950	2170
M6PL-0038-IAA	AFE13C4E-IAA		853	991	1150	1320	1500	1690	1890	2090
M6TL-0040-IAA	AFE14C5E-IAA		948	1080	1230	1390	1550	1730	1900	2090
M6EL-0040-IAV	AFE14C5E-IAV		948	1080	1230	1390	1550	1730	1900	2090
M6EL-0041-IAA	AFE14C5E-IAA		948	1090	1250	1420	1590	1780	1970	2160
M6PL-0041-IAA	AFE14C5E-IAA		948	1090	1250	1420	1590	1780	1970	2160
M6EL-H043-IAA	AFE14C5E-IAA		967	1130	1300	1500	1700	1920	2150	2390
M6EL-H043-IAV	AFE14C5E-IAV		967	1130	1300	1500	1700	1920	2150	2390
M6EL-H054-CAA	AFE17C4E-CAA			1250	1430	1640	1860	2100	2340	2590
M6EL-H054-IAA	AFE17C4E-IAA			1250	1430	1640	1860	2100	2340	2590
M6EL-H054-IAV	AFE17C4E-IAV			1250	1430	1640	1860	2100	2340	2590
M6EL-0048-CAA	AFE17C4E-CAA			1360	1540	1750	1980	2220	2460	
M6EL-0052-IAA	AFE20C5E-IAA			1420	1610	1820	2030	2240	2440	
M6PL-0052-IAA	AFE20C5E-IAA			1420	1610	1820	2030	2240	2440	
M6TL-0051-IAA	AFE20C5E-IAA				1640	1850	2060			
M6TL-0051-IAV	AFE20C5E-IAV				1640	1850	2060			
M6EL-H056-IAA	AFE20C5E-IAA			1500	1720	1960	2210	2470	2730	2990
M6EL-H056-IAV	AFE20C5E-IAV			1500	1720	1960	2210	2470	2730	2990
M6PL-0060-CAV	AFE23C5E-CAV				1930	2180	2450			
M6EL-H065-CAA	AFE23C5E-CAA			1810	2070	2340	2620	2910	3200	
M6EL-0068-CAA	AFE26C5E-CAA					2470				
M6EL-H074-CAA	AFE26C5E-CAA				2300	2600	2900	3210		
M6BL-0123-CFA	RFT42C1E-PFA			3390	3710	4100	4560	5070	5600	
M6BL-0123-CFV	RFT42C1E-PFV			3390	3710	4100	4560	5070	5600	

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

R-449A Condensate Base MT/EMT

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30
90° Ambient										
M6TM-0020-IAA	ASE12C4E-IAA	682	808	942	1080	1230	1400	1570	1750	1940
M6EM-0020-IAA	ASE12C4E-IAA	690	818	954	1100	1250	1420	1590	1780	1980
M6PM-0020-IAA	ASE12C4E-IAA	690	818	954	1100	1250	1420	1590	1780	1980
M6EM-H022-IAA	ASE12C4E-IAA	690	820	959	1110	1270	1440	1620	1820	2020
M6TM-0022-IAA	ASE14C4E-IAA	850	997	1150	1310	1470	1650	1830	2030	2250
M6EM-0023-IAA	ASE14C4E-IAA	859	1010	1170	1330	1500	1680	1870	2080	2300
M6PM-0023-IAA	ASE14C4E-IAA	859	1010	1170	1330	1500	1680	1870	2080	2300
M6QM-H025-IAA	ASE14C4E-IAA	860	1010	1170	1330	1510	1690	1890	2100	2320
M6EM-H026-IAA	ASE14C4E-IAA	862	1020	1180	1340	1520	1710	1910	2130	2360
M6TM-0027-IAA	ASE20C4E-IAA	983	1230	1440	1650	1840	2040	2240	2460	2690
M6TM-0027-IAV	ASE20C4E-IAV	983	1230	1440	1650	1840	2040	2240	2460	2690
M6EM-0028-IAA	ASE20C4E-IAA	984	1230	1460	1670	1880	2090	2300	2530	2770
M6PM-0028-CAA	ASE20C4E-CAA	984	1230	1460	1670	1880	2090	2300	2530	2770
M6PM-0028-IAA	ASE20C4E-IAA	984	1230	1460	1670	1880	2090	2300	2530	2770
M6EM-H032-CAA	ASE20C4E-CAA	1160	1310	1490	1700	1930	2180	2450	2730	3030
M6TM-0028-IAA	ASE24C5E-IAA	1250	1420	1610	1810	2030	2270	2520	2790	3070
M6PM-0030-IAA	ASE24C5E-IAA	1270	1450	1640	1850	2080	2320	2580	2860	3160
M6EM-H034-IAA	ASE24C5E-IAA	1280	1470	1670	1890	2130	2390	2670	2970	3290
M6TM-0032-IAA	ASE28C5E-IAA		1770	1900	2080	2310	2580	2890	3250	3650
M6TM-0032-IAV	ASE28C5E-IAV		1770	1900	2080	2310	2580	2890	3250	3650
M6EM-0034-IAA	ASE28C5E-IAA		1850	1920	2090	2340	2650	3010	3370	3740
M6EM-H040-IAA	ASE28C5E-IAA	1940	1880	1960	2150	2420	2750	3130	3520	3910
M6EM-H051-IAA	ASE39C5E-IAA		2500	2610	2860	3210	3620	4060	4500	4910
M6EP-H056-CAA	RST45C1E-CAA		2300	2620	2950	3310	3690	4100	4540	4990
M6EP-H056-IAA	RST45C1E-IAA		2300	2620	2950	3310	3690	4100	4540	4990
M6BP-0064-CAA	RST45C1E-CAA	2130	2470	2840	3260	3720	4210	4760	5340	5970
M6BP-0064-CAV	RST45C1E-CAV	2130	2470	2840	3260	3720	4210	4760	5340	5970
M6BP-0075-CAA	RST55C1E-CAA	2690	3040	3460	3950	4490	5090	5740	6430	7170
M6BP-0075-CAV	RST55C1E-CAV	2690	3040	3460	3950	4490	5090	5740	6430	7170
M6BP-0096-CFV	RST70C1E-PFV	3450	4000	4580	5180	5810	6460	7140	7820	8530
M6BP-0092-CAV	RST64C1E-CAV	3550	4050	4570	5140	5740	6400	7100	7850	8660
M6BP-0092-CFA	RST64C1E-CFA	3550	4050	4570	5140	5740	6400	7100	7850	8660
M6BP-0106-CFV	RST80C1E-PFV		4580	5200	5850	6520	7220	7960	8710	9490
M6BP-0116-CFV	RST97C1E-PFV		5140	5840	6570	7310	8070	8820	9590	10300

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

R-449A Condensate Base MT/EMT

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30
100° Ambient										
M6TM-0020-IAA	ASE12C4E-IAA		727	850	981	1120	1270	1420	1580	1760
M6EM-0020-IAA	ASE12C4E-IAA		732	858	992	1130	1290	1450	1620	1800
M6PM-0020-IAA	ASE12C4E-IAA		732	858	992	1130	1290	1450	1620	1800
M6EM-H022-IAA	ASE12C4E-IAA		734	863	1000	1150	1300	1470	1650	1840
M6TM-0022-IAA	ASE14C4E-IAA		907	1050	1190	1340	1500	1670	1860	2060
M6EM-0023-IAA	ASE14C4E-IAA		917	1060	1210	1360	1530	1710	1900	2100
M6PM-0023-IAA	ASE14C4E-IAA		917	1060	1210	1360	1530	1710	1900	2100
M6QM-H025-IAA	ASE14C4E-IAA		919	1060	1210	1370	1540	1720	1920	2130
M6EM-H026-IAA	ASE14C4E-IAA		923	1070	1220	1390	1560	1740	1950	2160
M6TM-0027-IAA	ASE20C4E-IAA			1370	1530	1700	1860	2020	2210	2410
M6TM-0027-IAV	ASE20C4E-IAV			1370	1530	1700	1860	2020	2210	2410
M6EM-0028-IAA	ASE20C4E-IAA		1190	1380	1560	1730	1900	2080	2280	2490
M6PM-0028-CAA	ASE20C4E-CAA		1190	1380	1560	1730	1900	2080	2280	2490
M6PM-0028-IAA	ASE20C4E-IAA		1190	1380	1560	1730	1900	2080	2280	2490
M6EM-H032-CAA	ASE20C4E-CAA		1190	1350	1540	1750	1980	2230	2490	2770
M6TM-0028-IAA	ASE24C5E-IAA			1450	1630	1830	2050	2280	2530	2790
M6PM-0030-IAA	ASE24C5E-IAA		1310	1480	1670	1880	2110	2350	2610	2880
M6EM-H034-IAA	ASE24C5E-IAA		1330	1510	1710	1930	2170	2430	2700	3000
M6TM-0032-IAA	ASE28C5E-IAA			1740	1910	2120	2360	2650	2980	3340
M6TM-0032-IAV	ASE28C5E-IAV			1740	1910	2120	2360	2650	2980	3340
M6EM-0034-IAA	ASE28C5E-IAA			1760	1900	2120	2400	2730	3080	3440
M6EM-H040-IAA	ASE28C5E-IAA			1800	1950	2190	2490	2840	3220	3590
M6EM-H051-IAA	ASE39C5E-IAA			2410	2610	2920	3290	3690	4090	4460
M6EP-H056-CAA	RST45C1E-CAA			2360	2660	2990	3330	3700	4090	4500
M6EP-H056-IAA	RST45C1E-IAA			2360	2660	2990	3330	3700	4090	4500
M6BP-0064-CAA	RST45C1E-CAA		2210	2560	2940	3360	3810	4310	4840	5420
M6BP-0064-CAV	RST45C1E-CAV		2210	2560	2940	3360	3810	4310	4840	5420
M6BP-0075-CAA	RST55C1E-CAA		2690	3070	3510	4010	4560	5170	5830	6520
M6BP-0075-CAV	RST55C1E-CAV		2690	3070	3510	4010	4560	5170	5830	6520
M6BP-0092-CAV	RST64C1E-CAV			4180	4700	5260	5860	6500	7190	7940
M6BP-0092-CFA	RST64C1E-CFA			4180	4700	5260	5860	6500	7190	7940
M6BP-0096-CFV	RST70C1E-PFV			4150	4720	5320	5930	6560	7200	7860
M6BP-0106-CFV	RST80C1E-PFV			4690	5300	5940	6600	7290	8000	8740
M6BP-0116-CFV	RST97C1E-PFV				5970	6680	7390	8110	8820	

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

R-449A Condensate Base MT/EMT

Copeland air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30
110° Ambient										
M6TM-0020-IAA	ASE12C4E-IAA			790	904	1030	1150	1290	1440	1590
M6EM-0020-IAA	ASE12C4E-IAA			780	901	1030	1170	1310	1460	1630
M6PM-0020-IAA	ASE12C4E-IAA			780	901	1030	1170	1310	1460	1630
M6EM-H022-IAA	ASE12C4E-IAA			769	895	1030	1170	1320	1490	1660
M6TM-0022-IAA	ASE14C4E-IAA			961	1090	1220	1370	1520	1690	1870
M6EM-0023-IAA	ASE14C4E-IAA			964	1100	1240	1390	1560	1730	1920
M6PM-0023-IAA	ASE14C4E-IAA			964	1100	1240	1390	1560	1730	1920
M6QM-H025-IAA	ASE14C4E-IAA			955	1090	1240	1400	1560	1740	1940
M6EM-H026-IAA	ASE14C4E-IAA			961	1100	1250	1410	1590	1770	1970
M6TM-0027-IAA	ASE20C4E-IAA				1430	1560	1680	1810	1950	2120
M6TM-0027-IAV	ASE20C4E-IAV				1430	1560	1680	1810	1950	2120
M6EM-0028-IAA	ASE20C4E-IAA				1450	1590	1720	1870	2030	2210
M6PM-0028-CAA	ASE20C4E-CAA				1450	1590	1720	1870	2030	2210
M6PM-0028-IAA	ASE20C4E-IAA				1450	1590	1720	1870	2030	2210
M6EM-H032-CAA	ASE20C4E-CAA				1380	1580	1790	2010	2250	2510
M6TM-0028-IAA	ASE24C5E-IAA				1470	1650	1830	2040	2260	
M6PM-0030-IAA	ASE24C5E-IAA				1510	1690	1890	2110	2340	2590
M6EM-H034-IAA	ASE24C5E-IAA				1540	1730	1950	2190	2440	2720
M6TM-0032-IAA	ASE28C5E-IAA					1920	2150			
M6TM-0032-IAV	ASE28C5E-IAV					1920	2150			
M6EM-0034-IAA	ASE28C5E-IAA				1730	1910	2170	2460	2790	
M6EM-H040-IAA	ASE28C5E-IAA				1770	1980	2250	2580	2930	3290
M6EM-H051-IAA	ASE39C5E-IAA					2620	2940	3300		
M6EP-H056-CAA	RST45C1E-CAA					2670	2970			
M6EP-H056-IAA	RST45C1E-IAA					2670	2970			
M6BP-0064-CAA	RST45C1E-CAA				2620	3000	3420	3870	4360	4890
M6BP-0064-CAV	RST45C1E-CAV				2620	3000	3420	3870	4360	4890
M6BP-0075-CAA	RST55C1E-CAA				3110	3570	4090	4660	5270	5930
M6BP-0075-CAV	RST55C1E-CAV				3110	3570	4090	4660	5270	5930
M6BP-0092-CAV	RST64C1E-CAV					4780	5330	5910		
M6BP-0092-CFA	RST64C1E-CFA					4780	5330	5910		
M6BP-0096-CFV	RST70C1E-PFV				4250	4820	5390	5980	6580	
M6BP-0106-CFV	RST80C1E-PFV					5380	6000			
M6BP-0116-CFV	RST97C1E-PFV					6080				

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

R-450A Condensate Base MT/EMT

Copevap welded air-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0	5	10	15	20	25	30
90° Ambient													
M7JM-0019-IAA	AFE05C4E-IAA	406	487	574	669	771	883	1000	1140	1280	1430		
M7JM-H020-IAA	AFE05C4E-IAA	424	509	601	702	810	929	1060	1200	1350	1510		
M7JP-0020-IAA	AFF07C1E-IAA	451	531	617	709	808	916	1030	1160	1300	1440	1600	
M7ZP-0021-IAA	AFE05C4E-IAA	428	515	609	711	821	942	1070	1210	1370	1540		
M7TP-0020-IAA	AFF07C1E-IAA	465	547	635	730	834	946	1070	1200	1350	1510	1680	
M7EP-0021-IAA	AFF07C1E-IAA	468	550	639	735	839	954	1080	1220	1370	1530	1710	
M7PP-0021-IAA	AFF07C1E-IAA	468	550	639	735	839	954	1080	1220	1370	1530	1710	
M7JP-0029-IAA	AFF10C1E-IAA	682	807	939	1080	1230	1390	1560	1750	1940	2150	2370	
M7PP-0032-IA3	AFF10C1E-IA3	696	820	958	1110	1280	1460	1660	1880	2110	2360	2630	
M7TP-0032-IAA	AFF10C1E-IAA	711	840	978	1130	1280	1460	1640	1850	2070	2300	2550	
M7EP-0032-IAA	AFF10C1E-IAA	717	848	987	1140	1300	1480	1670	1870	2100	2340	2600	
M7PP-0032-IAA	AFF10C1E-IAA	717	848	987	1140	1300	1480	1670	1870	2100	2340	2600	
M7JP-0031-IAA	AFF13C1E-IAA	790	934	1090	1250	1420	1600	1790	2000	2210	2440	2680	
M7TP-0033-IAA	AFF13C1E-IAA	826	976	1130	1300	1490	1680	1900	2130	2370	2640	2920	
M7EP-0034-IAA	AFF13C1E-IAA	835	986	1150	1320	1510	1710	1930	2160	2420	2690	2990	
M7PP-0034-IAA	AFF13C1E-IAA	835	986	1150	1320	1510	1710	1930	2160	2420	2690	2990	
M7JL-0034-IAA	AFE12C4E-IAA	871	1010	1160	1340	1530	1730	1940	2160	2380	2600		
M7TM-0035-IAA	AFE12C4E-IAA	910	1060	1220	1410	1620	1850	2090	2340	2610	2880		
M7JM-H036-IAA	AFE12C4E-IAA	920	1070	1240	1430	1650	1880	2130	2390	2670	2960		
M7PM-0036-IAA	AFE12C4E-IAA	920	1070	1240	1430	1650	1880	2130	2390	2670	2960		
M7ZP-0041-IAA	AFE12C4E-IAA	935	1090	1260	1460	1690	1930	2190	2470	2760	3070		
M7ZM-0043-IAA	AFE13C5E-IAA	949	1110	1300	1510	1740	1980	2250	2540	2840	3150		
M7ZP-H062-CFA	RFT18C1E-PFA	1360	1670	2000	2330	2670	3030	3390	3760	4150	4540	4950	5360
M7GP-H066-CFA	RFT18C1E-PFA	1400	1720	2060	2410	2770	3140	3530	3930	4350	4780	5220	5680
100° Ambient													
M7JM-0019-IAA	AFE05C4E-IAA	365	439	520	608	705	811	927	1050	1190	1340		
M7JM-H020-IAA	AFE05C4E-IAA	382	461	547	641	744	858	981	1120	1260	1420		
M7ZP-0021-IAA	AFE05C4E-IAA	387	467	555	651	756	872	998	1140	1290	1450		
M7JP-0020-IAA	AFF07C1E-IAA	414	493	576	664	758	859	969	1090	1210	1350	1500	
M7TP-0020-IAA	AFF07C1E-IAA	428	508	593	684	782	888	1000	1130	1270	1410	1580	
M7EP-0021-IAA	AFF07C1E-IAA	430	511	596	688	787	894	1010	1140	1280	1430	1600	
M7PP-0021-IAA	AFF07C1E-IAA	430	511	596	688	787	894	1010	1140	1280	1430	1600	
M7JP-0029-IAA	AFF10C1E-IAA	621	743	870	1000	1150	1300	1460	1630	1810	2000	2200	
M7PP-0032-IA3	AFF10C1E-IA3	625	742	871	1010	1170	1350	1530	1740	1960	2190	2440	
M7TP-0032-IAA	AFF10C1E-IAA	649	775	907	1050	1200	1360	1540	1720	1930	2150	2380	
M7EP-0032-IAA	AFF10C1E-IAA	654	782	916	1060	1210	1380	1560	1750	1960	2190	2430	
M7PP-0032-IAA	AFF10C1E-IAA	654	782	916	1060	1210	1380	1560	1750	1960	2190	2430	
M7JP-0031-IAA	AFF13C1E-IAA	717	858	1000	1160	1320	1490	1670	1850	2050	2260	2480	
M7TP-0033-IAA	AFF13C1E-IAA	753	899	1050	1210	1390	1570	1770	1980	2210	2460	2720	
M7EP-0034-IAA	AFF13C1E-IAA	762	909	1060	1230	1410	1600	1800	2020	2260	2510	2780	
M7JL-0034-IAA	AFE12C4E-IAA	809	933	1080	1230	1410	1590	1780	1970	2170			
M7PP-0034-IAA	AFF13C1E-IAA	762	909	1060	1230	1410	1600	1800	2020	2260	2510	2780	
M7TM-0035-IAA	AFE12C4E-IAA	842	978	1130	1310	1500	1710	1930	2170	2410	2670		
M7JM-H036-IAA	AFE12C4E-IAA	851	989	1150	1330	1530	1750	1980	2220	2480	2740		
M7PM-0036-IAA	AFE12C4E-IAA	851	989	1150	1330	1530	1750	1980	2220	2480	2740		
M7ZP-0041-IAA	AFE12C4E-IAA	865	1010	1170	1360	1570	1800	2040	2300	2580	2860		
M7ZM-0043-IAA	AFE13C5E-IAA	873	1030	1200	1400	1610	1840	2090	2360	2640	2930		
M7ZP-H062-CFA	RFT18C1E-PFA	1160	1470	1780	2110	2440	2780	3130	3490	3850	4230	4610	5010
M7GP-H066-CFA	RFT18C1E-PFA	1210	1530	1860	2190	2540	2900	3270	3650	4040	4450	4870	5300

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

R-450A Condensate Base MT/EMT

Copevap welded air-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0	5	10	15	20	25	30
110° Ambient													
M7JM-0019-IAA	AFE05C4E-IAA	321	388	462	544	634	734	844	965	1100	1240		
M7JM-H020-IAA	AFE05C4E-IAA	336	407	486	574	672	780	899	1030	1170	1330		
M7ZP-0021-IAA	AFE05C4E-IAA	343	417	498	587	687	797	918	1050	1200	1360		
M7JP-0020-IAA	AFF07C1E-IAA	375	453	533	618	707	802	903	1010	1130	1260	1390	
M7TP-0020-IAA	AFF07C1E-IAA	387	466	549	636	729	829	937	1050	1180	1320	1470	
M7EP-0021-IAA	AFF07C1E-IAA	389	469	552	640	734	835	945	1060	1190	1340	1490	
M7PP-0021-IAA	AFF07C1E-IAA	389	469	552	640	734	835	945	1060	1190	1340	1490	
M7PP-0032-IA3	AFF10C1E-IA3	554	663	784	918	1070	1230	1400	1590	1800	2020	2260	
M7JP-0029-IAA	AFF10C1E-IAA		673	795	922	1050	1190	1340	1500	1670			
M7TP-0032-IAA	AFF10C1E-IAA	580	704	833	968	1110	1260	1430	1600	1790	1990	2210	
M7EP-0032-IAA	AFF10C1E-IAA	586	711	842	979	1120	1280	1450	1630	1820	2030	2260	
M7PP-0032-IAA	AFF10C1E-IAA	586	711	842	979	1120	1280	1450	1630	1820	2030	2260	
M7JP-0031-IAA	AFF13C1E-IAA		774	914	1060	1210	1370	1530	1700				
M7JL-0034-IAA	AFE12C4E-IAA			984	1120	1280	1440						
M7TP-0033-IAA	AFF13C1E-IAA	673	817	965	1120	1280	1460	1640	1840	2050	2280	2520	
M7EP-0034-IAA	AFF13C1E-IAA	682	827	978	1140	1300	1480	1670	1880	2100	2330	2580	
M7PP-0034-IAA	AFF13C1E-IAA	682	827	978	1140	1300	1480	1670	1880	2100	2330	2580	
M7TM-0035-IAA	AFE12C4E-IAA		901	1040	1200	1380	1570	1770	1990	2200	2430		
M7JM-H036-IAA	AFE12C4E-IAA		912	1060	1220	1400	1600	1810	2040	2270	2510		
M7PM-0036-IAA	AFE12C4E-IAA		912	1060	1220	1400	1600	1810	2040	2270	2510		
M7ZP-0041-IAA	AFE12C4E-IAA	801	931	1080	1250	1450	1660	1880	2120	2370	2640		
M7ZM-0043-IAA	AFE13C5E-IAA	798	942	1110	1290	1490	1710	1940	2180	2440	2710		
M7ZP-H062-CFA	RFT18C1E-PFA			1550	1870	2190	2530	2870	3220	3570	3940	4320	
M7GP-H066-CFA	RFT18C1E-PFA			1620	1950	2290	2640	3000	3370	3750	4130	4540	4950

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

R-450A Condensate Base HT

Copevap welded air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30	35	40	45
90° Ambient													
M7TH-0012-IAA	ARE13C4E-IAA			547	630	721	821	931	1050	1180	1320	1470	1630
M7PH-0012-IAA	ARE13C4E-IAA			550	635	727	828	939	1060	1190	1340	1490	1660
M7TH-0015-IAA	ARE17C4E-IAA			677	776	883	1000	1130	1260	1410	1570	1740	1930
M7PH-0015-IAA	ARE17C4E-IAA			682	782	890	1010	1140	1280	1430	1590	1770	1950
M7TH-0020-IAA	ARE25C4E-IAA			931	1060	1200	1360	1520	1700	1890	2100	2320	2560
M7EH-0020-IAA	ARE25C4E-IAA			939	1070	1220	1370	1540	1730	1920	2130	2360	2600
M7PH-0020-IAA	ARE25C4E-IAA			939	1070	1220	1370	1540	1730	1920	2130	2360	2600
M7TH-0023-IAA	ARE29C4E-IAA			1120	1260	1410	1590	1770	1980	2200	2430	2670	2930
M7EH-0024-IAA	ARE29C4E-IAA			1140	1270	1430	1610	1800	2020	2240	2480	2730	3000
M7PH-0024-IAA	ARE29C4E-IAA			1140	1270	1430	1610	1800	2020	2240	2480	2730	3000
M7TH-0025-IAA	ARE34C4E-IAA			1270	1420	1590	1780	1990	2220	2470	2730	3000	3280
M7TH-0028-IAA	ARE35C5E-IAA			1250	1420	1610	1820	2040	2280	2540	2810	3090	3400
M7EH-0029-IAA	ARE35C5E-IAA			1270	1440	1640	1850	2070	2320	2580	2860	3160	3470
M7PH-0029-IAA	ARE35C5E-IAA			1270	1440	1640	1850	2070	2320	2580	2860	3160	3470
M7TH-0036-IAA	ARE48C5E-IAA			1670	1910	2160	2420	2700	2990	3290	3610	3940	4280
M7EH-0037-IAA	ARE48C5E-IAA			1690	1940	2190	2470	2750	3060	3370	3710	4050	4410
M7PH-0038-IAA	ARE48C5E-IAA			1690	1940	2190	2470	2750	3060	3370	3710	4050	4410
M7EH-0041-IAA	ARE54C5E-IAA			1890	2160	2450	2750	3070	3400	3740	4100	4460	4840
M7PH-0042-IAA	ARE54C5E-IAA			1890	2160	2450	2750	3070	3400	3740	4100	4460	4840
M7BH-0060-CAV	RRT64C1E-CAV	2050	2330	2650	3000	3390	3810	4260	4740	5250	5790	6350	6930
M7BH-0060-CAA	RRT64C1E-CAA	2070	2330	2640	3000	3390	3820	4280	4780	5300	5840	6390	6960
M7BH-0064-CAA	RRT73C1E-CAA	2250	2540	2880	3260	3670	4120	4590	5090	5610	6150	6710	7280
M7BH-0064-CAV	RRT73C1E-CAV	2160	2540	2930	3360	3800	4270	4760	5290	5840	6420	7030	7670
M7BH-0075-CFA	RRT81C1E-PFA		2840	3270	3750	4260	4810	5390	6010	6650	7320	8020	8730
M7BH-0075-CFV	RRT81C1E-PFV		2730	3100	3570	4120	4730	5380	6050	6740	7430	8110	8770
M7BH-0086-CFA	RRT10K1E-PFA		3370	3870	4410	4980	5580	6210	6860	7540	8230	8940	9660
M7BH-0086-CFV	RRT10K1E-PFV		3430	3970	4520	5080	5650	6250	6860	7500	8160	8850	9560
100° Ambient													
M7TH-0012-IAA	ARE13C4E-IAA			501	580	665	759	861	972	1090	1220	1360	1520
M7PH-0012-IAA	ARE13C4E-IAA			505	584	671	766	869	982	1110	1240	1380	1540
M7TH-0015-IAA	ARE17C4E-IAA			627	719	820	929	1050	1180	1320	1470	1630	1800
M7PH-0015-IAA	ARE17C4E-IAA			632	725	827	939	1060	1190	1330	1490	1650	1830
M7TH-0020-IAA	ARE25C4E-IAA			862	983	1120	1260	1410	1580	1770	1960	2170	2400
M7EH-0020-IAA	ARE25C4E-IAA			871	994	1130	1280	1440	1610	1800	2000	2210	2440
M7PH-0020-IAA	ARE25C4E-IAA			871	994	1130	1280	1440	1610	1800	2000	2210	2440
M7TH-0023-IAA	ARE29C4E-IAA			1050	1170	1310	1470	1640	1830	2030	2250	2470	2700
M7EH-0024-IAA	ARE29C4E-IAA			1060	1180	1330	1490	1670	1860	2070	2300	2530	2770
M7PH-0024-IAA	ARE29C4E-IAA			1060	1180	1330	1490	1670	1860	2070	2300	2530	2770
M7TH-0025-IAA	ARE34C4E-IAA			1180	1310	1470	1640	1840	2050	2270	2510	2760	3030
M7TH-0028-IAA	ARE35C5E-IAA			1160	1320	1500	1700	1910	2130	2370	2630	2900	3190
M7EH-0029-IAA	ARE35C5E-IAA			1180	1340	1520	1720	1940	2170	2420	2690	2960	3260
M7PH-0029-IAA	ARE35C5E-IAA			1180	1340	1520	1720	1940	2170	2420	2690	2960	3260
M7TH-0036-IAA	ARE48C5E-IAA			1570	1790	2020	2260	2520	2780	3060	3350	3650	
M7EH-0037-IAA	ARE48C5E-IAA			1590	1820	2050	2310	2570	2850	3140	3450	3770	4090
M7PH-0038-IAA	ARE48C5E-IAA			1590	1820	2050	2310	2570	2850	3140	3450	3770	4090
M7EH-0041-IAA	ARE54C5E-IAA			1750	2010	2280	2570	2860	3170	3490	3810	4150	
M7PH-0042-IAA	ARE54C5E-IAA			1750	2010	2280	2570	2860	3170	3490	3810	4150	
M7BH-0060-CAV	RRT64C1E-CAV			2380	2720	3090	3490	3920	4380	4860	5370	5900	6460
M7BH-0060-CAA	RRT64C1E-CAA			2440	2780	3160	3560	4000	4450	4930	5430	5930	6450
M7BH-0064-CAA	RRT73C1E-CAA			2690	3040	3420	3840	4280	4750	5240	5750	6280	6820
M7BH-0064-CAV	RRT73C1E-CAV			2640	3050	3470	3920	4390	4880	5400	5950	6520	7120
M7BH-0075-CFV	RRT81C1E-PFV			2750	3160	3660	4230	4850	5500	6180	6860	7540	8200
M7BH-0075-CFA	RRT81C1E-PFA			2960	3420	3900	4420	4980	5560	6160	6790	7440	8110
M7BH-0086-CFV	RRT10K1E-PFV				4140	4670	5210	5760	6330	6910	7520	8160	8810
M7BH-0086-CFA	RRT10K1E-PFA			3540	4040	4580	5150	5740	6360	7000	7650	8320	9000

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

R-450A Condensate Base HT

Copevap welded air-cooled condensing units

Model	Compressor	-10	-5	0	5	10	15	20	25	30	35	40	45
110° Ambient													
M7TH-0012-IAA	ARE13C4E-IAA			454	527	606	692	786	888	1000	1120	1250	1390
M7PH-0012-IAA	ARE13C4E-IAA			457	531	611	698	794	899	1010	1140	1270	1420
M7TH-0015-IAA	ARE17C4E-IAA			573	659	753	855	966	1090	1220	1360	1510	1670
M7PH-0015-IAA	ARE17C4E-IAA			577	664	760	864	977	1100	1230	1380	1530	1700
M7TH-0020-IAA	ARE25C4E-IAA				898	1020	1150	1290	1450	1620	1810	2000	2220
M7EH-0020-IAA	ARE25C4E-IAA			797	909	1030	1170	1320	1480	1650	1840	2050	2270
M7PH-0020-IAA	ARE25C4E-IAA			797	909	1030	1170	1320	1480	1650	1840	2050	2270
M7TH-0023-IAA	ARE29C4E-IAA				1080	1210	1350	1510	1680	1860	2060	2260	2470
M7EH-0024-IAA	ARE29C4E-IAA				1090	1220	1370	1540	1710	1900	2110	2320	2540
M7PH-0024-IAA	ARE29C4E-IAA				1090	1220	1370	1540	1710	1900	2110	2320	2540
M7TH-0025-IAA	ARE34C4E-IAA					1350	1510	1680	1870	2080	2300	2530	2760
M7TH-0028-IAA	ARE35C5E-IAA					1390	1570	1770	1990	2210	2460	2710	
M7EH-0029-IAA	ARE35C5E-IAA			1240	1410	1600	1800	2020	2260	2510	2770	3050	
M7PH-0029-IAA	ARE35C5E-IAA			1240	1410	1600	1800	2020	2260	2510	2770	3050	
M7TH-0036-IAA	ARE48C5E-IAA							2340	2570				
M7EH-0037-IAA	ARE48C5E-IAA						2150	2390	2640	2910			
M7PH-0038-IAA	ARE48C5E-IAA						2150	2390	2640	2910			
M7EH-0041-IAA	ARE54C5E-IAA								2930				
M7PH-0042-IAA	ARE54C5E-IAA								2930				
M7BH-0060-CAV	RRT64C1E-CAV				2470	2820	3200	3610	4040	4500	4990	5490	6020
M7BH-0060-CAA	RRT64C1E-CAA				2540	2900	3270	3670	4090	4530	4980	5430	5900
M7BH-0064-CAA	RRT73C1E-CAA				2790	3160	3550	3970	4420	4890	5380	5890	6420
M7BH-0064-CAV	RRT73C1E-CAV				2770	3170	3590	4030	4490	4970	5480	6010	6570
M7BH-0075-CFV	RRT81C1E-PFV				2780	3220	3740	4330	4950	5610	6280	6950	
M7BH-0075-CFA	RRT81C1E-PFA					3550	4030	4550	5090	5660	6250	6860	
M7BH-0086-CFV	RRT10K1E-PFV					4250	4750	5260	5780	6320	6880		
M7BH-0086-CFA	RRT10K1E-PFA					4160	4690	5250	5830	6430			

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

R-513A Medium Temp/EMT

Copevap welded air-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0	5	10	15	20	25
90° Ambient												
M7TP-0020-IAA	AFF07C1E-IAA	595	690	794	907	1030	1160	1300	1450	1620	1790	1970
M7EP-0021-IAA	AFF07C1E-IAA	600	695	800	915	1040	1170	1320	1470	1640	1810	2000
M7PP-0021-IAA	AFF07C1E-IAA	600	695	800	915	1040	1170	1320	1470	1640	1810	2000
M7PP-0032-IA3	AFF10C1E-IA3	898	1050	1210	1390	1580	1790	2010	2250	2500	2760	3040
M7TP-0032-IAA	AFF10C1E-IAA	905	1050	1210	1390	1570	1770	1980	2210	2440	2690	2950
M7EP-0032-IAA	AFF10C1E-IAA	916	1070	1230	1410	1600	1800	2020	2250	2490	2750	3020
M7PP-0032-IAA	AFF10C1E-IAA	916	1070	1230	1410	1600	1800	2020	2250	2490	2750	3020
M7TP-0033-IAA	AFF13C1E-IAA	1050	1220	1400	1600	1810	2040	2280	2530	2790	3070	3360
M7EP-0034-IAA	AFF13C1E-IAA	1060	1240	1420	1630	1840	2080	2320	2580	2860	3150	3450
M7PP-0034-IAA	AFF13C1E-IAA	1060	1240	1420	1630	1840	2080	2320	2580	2860	3150	3450
M7TM-0035-IAA	AFE12C4E-IAA	1070	1240	1440	1670	1910	2180	2460	2750	3050	3360	
M7PM-0036-IAA	AFE12C4E-IAA	1080	1260	1470	1700	1950	2220	2520	2820	3140	3460	
M7EM-H043-IAA	AFE13C5E-IAA	1120	1320	1540	1790	2060	2360	2670	3000	3340	3700	
100° Ambient												
M7TP-0020-IAA	AFF07C1E-IAA	552	640	737	843	957	1080	1210	1350	1510	1670	1840
M7EP-0021-IAA	AFF07C1E-IAA	556	645	743	851	967	1090	1230	1370	1530	1690	1870
M7PP-0021-IAA	AFF07C1E-IAA	556	645	743	851	967	1090	1230	1370	1530	1690	1870
M7PP-0032-IA3	AFF10C1E-IA3	808	946	1100	1270	1450	1640	1850	2070	2300	2550	2800
M7TP-0032-IAA	AFF10C1E-IAA	830	967	1120	1280	1450	1640	1830	2040	2260	2490	2740
M7EP-0032-IAA	AFF10C1E-IAA	841	981	1130	1300	1480	1670	1870	2080	2310	2550	2810
M7PP-0032-IAA	AFF10C1E-IAA	841	981	1130	1300	1480	1670	1870	2080	2310	2550	2810
M7TP-0033-IAA	AFF13C1E-IAA	961	1120	1290	1470	1670	1880	2100	2330	2580	2840	3110
M7EP-0034-IAA	AFF13C1E-IAA	976	1140	1310	1500	1700	1920	2150	2390	2650	2910	3200
M7PP-0034-IAA	AFF13C1E-IAA	976	1140	1310	1500	1700	1920	2150	2390	2650	2910	3200
M7TM-0035-IAA	AFE12C4E-IAA	983	1140	1320	1530	1760	2000	2250	2520	2790	3070	
M7PM-0036-IAA	AFE12C4E-IAA	997	1160	1350	1560	1800	2050	2320	2600	2890	3180	
M7EM-H043-IAA	AFE13C5E-IAA	1030	1210	1420	1650	1900	2180	2470	2770	3090	3420	
110° Ambient												
M7TP-0020-IAA	AFF07C1E-IAA	504	587	677	775	882	997	1120	1250	1390	1540	1700
M7EP-0021-IAA	AFF07C1E-IAA	508	592	683	783	892	1010	1140	1270	1420	1570	1730
M7PP-0021-IAA	AFF07C1E-IAA	508	592	683	783	892	1010	1140	1270	1420	1570	1730
M7PP-0032-IA3	AFF10C1E-IA3	714	843	985	1140	1310	1490	1680	1890	2110	2330	2570
M7TP-0032-IAA	AFF10C1E-IAA		876	1020	1160	1330	1500	1680	1870	2080	2290	2520
M7EP-0032-IAA	AFF10C1E-IAA	760	890	1030	1180	1350	1530	1720	1920	2130	2350	2590
M7PP-0032-IAA	AFF10C1E-IAA	760	890	1030	1180	1350	1530	1720	1920	2130	2350	2590
M7TP-0033-IAA	AFF13C1E-IAA		1010	1170	1340	1520	1720	1920	2140	2360	2600	2850
M7EP-0034-IAA	AFF13C1E-IAA		1030	1190	1370	1560	1760	1970	2190	2430	2680	2940
M7PP-0034-IAA	AFF13C1E-IAA		1030	1190	1370	1560	1760	1970	2190	2430	2680	2940
M7TM-0035-IAA	AFE12C4E-IAA		1040	1210	1390	1590	1810	2040	2280	2520		
M7PM-0036-IAA	AFE12C4E-IAA		1060	1230	1420	1640	1860	2100	2360	2610	2880	
M7EM-H043-IAA	AFE13C5E-IAA	930	1100	1300	1510	1750	2000	2270	2550	2850	3150	

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

R-513A Condensate Base HT

Copevap welded air-cooled condensing units

Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45
90° Ambient												
M7TH-0012-IAA	ARE13C4E-IAA		695	791	896	1010	1130	1270	1410	1570	1730	1910
M7PH-0012-IAA	ARE13C4E-IAA		701	799	905	1020	1150	1280	1430	1590	1760	1950
M7EH-H016-IAA	ARE17C4E-IAA		834	947	1070	1200	1350	1500	1670			
M7TH-0015-IAA	ARE17C4E-IAA		861	974	1100	1230	1370	1520	1680	1860	2040	2240
M7PH-0015-IAA	ARE17C4E-IAA		869	984	1110	1240	1390	1540	1710	1890	2080	2280
M7EH-H022-IAA	ARE25C4E-IAA		1140	1290	1450	1630	1810	2010	2230			
M7TH-0020-IAA	ARE25C4E-IAA		1180	1330	1490	1660	1840	2030	2240	2460	2700	2950
M7EH-0020-IAA	ARE25C4E-IAA		1190	1350	1510	1680	1870	2070	2290	2510	2760	3020
M7PH-0020-IAA	ARE25C4E-IAA		1190	1350	1510	1680	1870	2070	2290	2510	2760	3020
M7TH-0023-IAA	ARE29C4E-IAA		1420	1570	1740	1930	2130	2350	2580	2820	3070	3330
M7TH-0025-IAA	ARE34C4E-IAA		1430	1570	1740	1930	2130	2350	2590	2830	3090	3360
M7TH-0025-IAV	ARE34C4E-IAV		1430	1570	1740	1930	2130	2350	2590	2830	3090	3360
M7EH-H026-IAA	ARE29C4E-IAA		1400	1560	1730	1930	2140	2370	2620			
M7EH-0024-IAA	ARE29C4E-IAA		1440	1600	1770	1960	2170	2400	2640	2890	3160	3430
M7PH-0024-IAA	ARE29C4E-IAA		1440	1600	1770	1960	2170	2400	2640	2890	3160	3430
M7TH-0028-IAA	ARE35C5E-IAA		1530	1740	1970	2220	2480	2750	3030	3310	3600	3900
M7EH-H032-IAA	ARE35C5E-IAA		1510	1720	1960	2210	2480	2770	3070			
M7EH-0029-IAA	ARE35C5E-IAA		1560	1770	2010	2260	2530	2810	3100	3400	3710	4020
M7PH-0029-IAA	ARE35C5E-IAA		1560	1770	2010	2260	2530	2810	3100	3400	3710	4020
M7TH-0036-IAA	ARE48C5E-IAA		2110	2340	2600	2880	3170	3470	3790	4110	4430	4750
M7TH-0036-IAV	ARE48C5E-IAV		2110	2340	2600	2880	3170	3470	3790	4110	4430	4750
M7EH-H041-IAA	ARE48C5E-IAA		2000	2300	2610	2930	3270	3610	3960			
M7EH-H041-IAV	ARE48C5E-IAV		2000	2300	2610	2930	3270	3610	3960			
M7EH-0037-IAA	ARE48C5E-IAA		2070	2370	2680	2990	3320	3650	3980	4310	4640	4960
M7PH-0038-IAA	ARE48C5E-IAA		2070	2370	2680	2990	3320	3650	3980	4310	4640	4960
M7EH-0041-IAA	ARE54C5E-IAA		2300	2630	2970	3320	3670	4020	4370	4710	5030	5340
M7PH-0042-IAA	ARE54C5E-IAA		2300	2630	2970	3320	3670	4020	4370	4710	5030	5340
M7EH-H046-IAA	ARE54C5E-IAA		2260	2590	2940	3300	3660	4030	4400			
M7EH-H046-IAV	ARE54C5E-IAV		2260	2590	2940	3300	3660	4030	4400			
M7EH-H044-IAA	RRT62C1E-IAA	2110	2360	2650	2960	3310	3670	4040	4420			
M7EH-H044-IAV	RRT62C1E-IAV	2110	2360	2650	2960	3310	3670	4040	4420			
M7EH-H053-CAA	RRT64C1E-CAA		2700	3030	3380	3760	4150	4560	4980			
M7EH-H053-CAV	RRT64C1E-CAV		2700	3030	3380	3760	4150	4560	4980			
M7EH-H053-IAA	RRT64C1E-IAA		2700	3030	3380	3760	4150	4560	4980			
M7EH-H053-IAV	RRT64C1E-IAV		2700	3030	3380	3760	4150	4560	4980			
M7BH-0060-CAA	RRT64C1E-CAA	2800	3160	3570	4020	4500	5010	5550	6120	6700	7300	7910
M7BH-0060-CAV	RRT64C1E-CAV	2800	3160	3570	4020	4500	5010	5550	6120	6700	7300	7910
M7BH-0064-CAA	RRT73C1E-CAA	3040	3510	3990	4500	5040	5590	6170	6780	7400	8050	8710
M7BH-0064-CAV	RRT73C1E-CAV	3040	3510	3990	4500	5040	5590	6170	6780	7400	8050	8710
M7BH-0075-CFA	RRT81C1E-PFA	3180	3550	4050	4660	5340	6080	6850	7650	8450	9240	9990
M7BH-0075-CFV	RRT81C1E-PFV	3180	3550	4050	4660	5340	6080	6850	7650	8450	9240	9990
M7BH-0086-CFA	RRT10K1E-PFA	3980	4520	5110	5730	6370	7050	7760	8490	9240	10000	10800
M7BH-0086-CFV	RRT10K1E-PFV	3980	4520	5110	5730	6370	7050	7760	8490	9240	10000	10800

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

R-513A Condensate Base HT

Copevap welded air-cooled condensing units

Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45
100° Ambient												
M7TH-0012-IAA	ARE13C4E-IAA	639	728	824	928	1040	1160	1290	1430	1590	1750	
M7PH-0012-IAA	ARE13C4E-IAA	646	736	834	940	1060	1180	1310	1460	1620	1790	
M7EH-H016-IAA	ARE17C4E-IAA	773	877	989	1110	1240	1390	1540				
M7TH-0015-IAA	ARE17C4E-IAA	797	901	1010	1130	1260	1400	1550	1710	1890	2070	
M7PH-0015-IAA	ARE17C4E-IAA	806	912	1030	1150	1280	1430	1580	1750	1920	2110	
M7EH-H022-IAA	ARE25C4E-IAA	1060	1190	1340	1500	1670	1850	2050				
M7TH-0020-IAA	ARE25C4E-IAA	1090	1230	1370	1520	1690	1870	2070	2270	2490	2730	
M7EH-0020-IAA	ARE25C4E-IAA	1110	1240	1390	1550	1730	1910	2110	2330	2560	2800	
M7PH-0020-IAA	ARE25C4E-IAA	1110	1240	1390	1550	1730	1910	2110	2330	2560	2800	
M7TH-0023-IAA	ARE29C4E-IAA	1320	1450	1600	1770	1950	2150	2360	2580	2810	3050	
M7TH-0025-IAA	ARE34C4E-IAA	1320	1450	1600	1760	1950	2150	2370	2590	2830	3080	
M7TH-0025-IAV	ARE34C4E-IAV	1320	1450	1600	1760	1950	2150	2370	2590	2830	3080	
M7EH-H026-IAA	ARE29C4E-IAA	1300	1440	1590	1770	1960	2170	2390				
M7EH-0024-IAA	ARE29C4E-IAA	1340	1480	1630	1810	2000	2200	2420	2650	2890	3140	
M7PH-0024-IAA	ARE29C4E-IAA	1340	1480	1630	1810	2000	2200	2420	2650	2890	3140	
M7TH-0028-IAA	ARE35C5E-IAA	1420	1620	1830	2050	2290	2540	2790	3050	3320	3580	
M7EH-H032-IAA	ARE35C5E-IAA	1390	1590	1810	2040	2300	2560	2830				
M7EH-0029-IAA	ARE35C5E-IAA	1440	1640	1860	2100	2340	2600	2870	3140	3420	3700	
M7PH-0029-IAA	ARE35C5E-IAA	1440	1640	1860	2100	2340	2600	2870	3140	3420	3700	
M7TH-0036-IAA	ARE48C5E-IAA		2220	2440	2680	2940	3210	3490	3770			
M7TH-0036-IAV	ARE48C5E-IAV		2220	2440	2680	2940	3210	3490	3770			
M7EH-H041-IAA	ARE48C5E-IAA	1870	2140	2420	2710	3010	3320	3620				
M7EH-H041-IAV	ARE48C5E-IAV	1870	2140	2420	2710	3010	3320	3620				
M7EH-0037-IAA	ARE48C5E-IAA	1950	2220	2490	2780	3060	3350	3640	3930	4210		
M7PH-0038-IAA	ARE48C5E-IAA	1950	2220	2490	2780	3060	3350	3640	3930	4210		
M7EH-H044-IAA	RRT62C1E-IAA		2420	2700	3010	3340	3670	4020				
M7EH-H044-IAV	RRT62C1E-IAV		2420	2700	3010	3340	3670	4020				
M7EH-0041-IAA	ARE54C5E-IAA	2140	2440	2750	3070	3380	3690	3990	4280			
M7PH-0042-IAA	ARE54C5E-IAA	2140	2440	2750	3070	3380	3690	3990	4280			
M7EH-H046-IAA	ARE54C5E-IAA	2080	2390	2710	3040	3370	3700	4020				
M7EH-H046-IAV	ARE54C5E-IAV	2080	2390	2710	3040	3370	3700	4020				
M7EH-H053-CAA	RRT64C1E-CAA		2750	3070	3420	3780	4150	4530				
M7EH-H053-CAV	RRT64C1E-CAV		2750	3070	3420	3780	4150	4530				
M7EH-H053-IAA	RRT64C1E-IAA		2750	3070	3420	3780	4150	4530				
M7EH-H053-IAV	RRT64C1E-IAV		2750	3070	3420	3780	4150	4530				
M7BH-0060-CAA	RRT64C1E-CAA	2910	3290	3700	4140	4620	5120	5640	6190	6740	7310	
M7BH-0060-CAV	RRT64C1E-CAV	2910	3290	3700	4140	4620	5120	5640	6190	6740	7310	
M7BH-0064-CAA	RRT73C1E-CAA	3230	3680	4150	4650	5160	5690	6240	6810	7390	7990	
M7BH-0064-CAV	RRT73C1E-CAV	3230	3680	4150	4650	5160	5690	6240	6810	7390	7990	
M7BH-0075-CFA	RRT81C1E-PFA	3140	3570	4130	4770	5480	6230	7020	7810	8600	9360	
M7BH-0075-CFV	RRT81C1E-PFV	3140	3570	4130	4770	5480	6230	7020	7810	8600	9360	
M7BH-0086-CFA	RRT10K1E-PFA		4680	5260	5870	6510	7160	7840	8540	9250		
M7BH-0086-CFV	RRT10K1E-PFV		4680	5260	5870	6510	7160	7840	8540	9250		

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

R-513A Condensate Base HT

Copevap welded air-cooled condensing units

Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45
110° Ambient												
M7TH-0012-IAA	ARE13C4E-IAA		578	659	746	841	943	1050	1170	1300	1440	1590
M7PH-0012-IAA	ARE13C4E-IAA		584	666	756	852	957	1070	1190	1330	1470	1630
M7EH-H016-IAA	ARE17C4E-IAA		702	797	901	1010	1130	1260	1410			
M7TH-0015-IAA	ARE17C4E-IAA		724	821	924	1040	1160	1290	1430	1570	1730	1910
M7PH-0015-IAA	ARE17C4E-IAA		733	831	937	1050	1180	1310	1450	1610	1770	1950
M7EH-H022-IAA	ARE25C4E-IAA		962	1080	1210	1360	1510	1680	1870			
M7TH-0020-IAA	ARE25C4E-IAA			1110	1240	1380	1540	1700	1880	2070	2280	2500
M7EH-0020-IAA	ARE25C4E-IAA			1130	1270	1410	1570	1740	1930	2130	2340	2570
M7PH-0020-IAA	ARE25C4E-IAA			1130	1270	1410	1570	1740	1930	2130	2340	2570
M7EH-H026-IAA	ARE29C4E-IAA	1200	1320	1450	1610	1780	1960	2160				
M7TH-0023-IAA	ARE29C4E-IAA			1470	1620	1780	1960	2150	2350	2560	2780	
M7TH-0025-IAA	ARE34C4E-IAA			1460	1610	1780	1960	2160	2370	2590	2820	
M7TH-0025-IAV	ARE34C4E-IAV			1460	1610	1780	1960	2160	2370	2590	2820	
M7EH-0024-IAA	ARE29C4E-IAA		1360	1500	1650	1830	2010	2210	2420	2640	2870	
M7PH-0024-IAA	ARE29C4E-IAA		1360	1500	1650	1830	2010	2210	2420	2640	2870	
M7TH-0028-IAA	ARE35C5E-IAA				1880	2100	2320	2550	2780			
M7EH-H032-IAA	ARE35C5E-IAA		1460	1660	1870	2100	2340	2580				
M7EH-0029-IAA	ARE35C5E-IAA			1710	1930	2150	2390	2630	2870	3120		
M7PH-0029-IAA	ARE35C5E-IAA			1710	1930	2150	2390	2630	2870	3120		
M7EH-H041-IAA	ARE48C5E-IAA			2230	2480	2740	3000	3270				
M7EH-H041-IAV	ARE48C5E-IAV			2230	2480	2740	3000	3270				
M7EH-0037-IAA	ARE48C5E-IAA					2790	3040					
M7PH-0038-IAA	ARE48C5E-IAA					2790	3040					
M7EH-H044-IAA	RRT62C1E-IAA			2450	2730	3020	3320	3640				
M7EH-H044-IAV	RRT62C1E-IAV			2450	2730	3020	3320	3640				
M7EH-H046-IAA	ARE54C5E-IAA				2770	3060	3340	3620				
M7EH-H046-IAV	ARE54C5E-IAV				2770	3060	3340	3620				
M7EH-H053-CAA	RRT64C1E-CAA				3080	3410						
M7EH-H053-CAV	RRT64C1E-CAV				3080	3410						
M7EH-H053-IAA	RRT64C1E-IAA				3080	3410						
M7EH-H053-IAV	RRT64C1E-IAV				3080	3410						
M7BH-0060-CAA	RRT64C1E-CAA		3000	3380	3790	4220	4680	5170	5670	6180	6710	
M7BH-0060-CAV	RRT64C1E-CAV		3000	3380	3790	4220	4680	5170	5670	6180	6710	
M7BH-0064-CAA	RRT73C1E-CAA			3790	4230	4690	5160	5650	6160	6670		
M7BH-0064-CAV	RRT73C1E-CAV			3790	4230	4690	5160	5650	6160	6670		
M7BH-0075-CFA	RRT81C1E-PFA		3160	3640	4230	4900	5630	6390	7180			
M7BH-0075-CFV	RRT81C1E-PFV		3160	3640	4230	4900	5630	6390	7180			
M7BH-0086-CFA	RRT10K1E-PFA			4820	5380	5970	6570					
M7BH-0086-CFV	RRT10K1E-PFV			4820	5380	5970	6570					

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

Physical and Electrical Data

Copeland welded water-cooled condensing units

Model	Compressor Electrical	Length	Width	Height	Refrigerant Connections		Receiver Capacity (Lbs @ 90% Volume)						MCA	Max Fuse	Ship Weight
					Liquid	Suction	134a	404A	448A	449A	450A	513A			
M6WF-0056-IAA	RST45C1E-IAA	18.3	12.87	9.99	3/8	1/2	1.5	1.3	1.4	1.4	1.5	1.5	13.1	20	0
M6WF-0056-IAV	RST45C1E-IAV	18.3	12.87	9.99	3/8	1/2	1.5	1.3	1.4	1.4	1.5	1.5	6.6	15	0
M6WF-0075-CAA	RST55C1E-CAA	24.23	16.1	11.85	3/8	1/2	1.5	1.3	1.4	1.4	1.5	1.5	18.8	30	0
M6WF-0075-CAV	RST55C1E-CAV	24.23	16.1	11.85	3/8	1/2	1.5	1.3	1.4	1.4	1.5	1.5	8.5	15	0
M6WF-0106-CAV	RST64C1E-CAV	24.23	16.1	11.85	3/8	1/2		4.9	5.1	5.1			11.3	20	0
M6WF-0125-CFV	RST70C1E-PFV	24.24	16.1	13.2	3/8	5/8		4.9	5.1	5.1			9.6	15	0
M6WF-0125-TAC	RST70C1E-TA5	24.24	16.1	13.2	3/8	5/8		4.9	5.1	5.1			6.9	15	0
M6WF-0126-CFV	RST80C1E-PFV	24.24	16.1	13.2	3/8	5/8		4.9	5.1	5.1			11.6	20	0
M6WF-0126-TAC	RST80C1E-TA5	24.24	16.1	13.2	3/8	5/8		4.9	5.1	5.1			7.1	15	0
M6WH-0025-IAA	ASE20C4E-IAA	18.18	13.2	9.42	1/4	3/8	1.5	1.3	1.4	1.4	1.5	1.5	7.5	15	0
M6WH-0036-IAA	ASE24C5E-IAA	18.18	13.21	9.92	1/4	3/8	1.5	1.3	1.4	1.4	1.5	1.5	7.8	15	0
M6WH-0050-CAA	ASE32C5E-CAA	18.18	12.97	9.92	1/4	3/8	1.5	1.3	1.4	1.4	1.5	1.5	9.4	15	0
M6WL-0025-IAA	AFE08C4E-IAA	24	16.41	9.73	1/4	3/8	1.5	1.3	1.4	1.4	1.5	1.5	5.5	15	0
M6WL-0033-IAA	AFE11C4E-IAA	24	16.41	9.73	1/4	3/8	1.5	1.3	1.4	1.4	1.5	1.5	5.9	15	0
M6WL-0040-IAA	AFE14C5E-IAA	24	16.41	10.23	1/4	3/8	1.5	1.3	1.4	1.4	1.5	1.5	8.2	15	0
M6WL-0051-IAA	AFE17C4E-IAA	24	16.41	10.18	1/4	3/8	1.5	1.3	1.4	1.4	1.5	1.5	10.4	15	0
M6WL-0067-CAA	RFT26C1E-CAA	24	16.41	11.87	3/8	1/2	1.5	1.3	1.4	1.4	1.5	1.5	14	20	0
M6WL-0075-CFA	RST64C1E-CFA	24	16.41	11.87	3/8	1/2	1.5	1.3	1.4	1.4	1.5	1.5	18.9	30	0
M6WL-0075-IAV	RST64C1E-IAV	24	16.41	10.46	3/8	1/2	1.5	1.3	1.4	1.4	1.5	1.5	11.8	20	0
M6WL-0105-CFV	RST80C1E-PFV	24	16.43	12.47	3/8	5/8		4.9	5.1	5.1			12.2	20	0
M6WL-0105-TAC	RST80C1E-TA5	24	16.43	12.47	3/8	5/8		4.9	5.1	5.1			7.7	15	0
M7WH-0026-IAA	ARE29C4E-IAA	18.18	13.2	9.42	1/4	3/8	1.5	1.3	1.4	1.4	1.5	1.5	4.9	15	0
M7WH-0033-IAA	ARE35C5E-IAA	18.18	13.21	9.92	1/4	3/8	1.5	1.3	1.4	1.4	1.5	1.5	8.6	15	0
M7WH-0040-IAA	ARE40C4E-IAA	18.18	13.21	9.92	1/4	3/8	1.5	1.3	1.4	1.4	1.5	1.5	8.8	15	0
M7WH-0049-IAV	ARE51C4E-IAV	18.18	13.21	9.92	1/4	3/8	1.5	1.3	1.4	1.4	1.5	1.5	6.1	15	0
M7WH-0050-IAA	RRT62C1E-IAA	18.55	13.44	9.68	3/8	1/2	1.5	1.3	1.4	1.4	1.5	1.5	11.9	20	0
M7WH-0050-IAV	RRT62C1E-IAV	18.55	13.44	9.68	3/8	1/2	1.5	1.3	1.4	1.4	1.5	1.5	5.4	15	0
M7WH-0056-IAA	RRT64C1E-IAA	18.3	12.87	9.99	3/8	1/2	1.5	1.3	1.4	1.4	1.5	1.5	13.8	20	0
M7WH-0056-IAV	RRT64C1E-IAV	18.3	12.87	9.99	3/8	1/2	1.5	1.3	1.4	1.4	1.5	1.5	8	15	0
M7WM-0075-CFA	RRT10K1E-PFA	24.24	16.1	13.2	3/8	5/8	1.5	1.3	1.4	1.4	1.5	1.5	17	30	0
M7WM-0075-CFV	RRT10K1E-PFV	24.24	16.1	13.2	3/8	5/8	1.5	1.3	1.4	1.4	1.5	1.5	10	15	0

R-134a

Copeland™ water-cooled condensing units

Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45	0	25	45
BTU/H at 105° condensing, 75° water inlet - evaporator temp (°F)													Water flow (GPM) @evap temp (°F)		
M7WH-0026-IAA	ARE29C4E-IAA	1270	1430	1620	1840	2090	2360	2660	2990	3340	3710		0.2	0.3	0.5
M7WH-0033-IAA	ARE35C5E-IAA	1430	1640	1880	2150	2440	2760	3110	3490	3900	4340		0.2	0.4	0.6
M7WH-0040-IAA	ARE40C4E-IAA	1700	1950	2240	2550	2890	3270	3670	4100	4560	5040		0.2	0.5	0.7
M7WH-0049-IAV	ARE51C4E-IAV	2030	2330	2670	3040	3460	3920	4410	4940	5510	6120		0.3	0.6	0.9
M7WH-0050-IAV	RRT62C1E-IAV	2060	2350	2700	3100	3540	4030	4560	5140	5760	6420	7120	0.3	0.6	0.9
M7WH-0050-IAA	RRT62C1E-IAA	1990	2350	2730	3150	3590	4080	4610	5180	5800	6480	7210	0.3	0.6	1.0
M7WH-0056-IAV	RRT64C1E-IAV	2410	2780	3190	3660	4170	4740	5360	6020	6740	7510	8340	0.4	0.7	1.1
M7WH-0056-IAA	RRT64C1E-IAA	2500	2870	3300	3770	4300	4880	5510	6190	6930	7730	8580	0.4	0.8	1.1
M7WM-0075-CFA	RRT10K1E-PFA	3770	4410	5110	5870	6700	7580	8530	9520	10600	11700	12800	0.6	1.1	1.6
M7WM-0075-CFV	RRT10K1E-PFV	3860	4550	5270	6030	6830	7700	8630	9640	10700	11900	13300	0.6	1.1	1.7

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

R-404A

Copeland™ water-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	-25	0	25
BTU/H at 105° condensing, 75° water inlet - evaporator temp (°F)															Water flow (GPM) @evap temp (°F)		
M6WL-0025-IAA	AFE08C4E-IAA	613	700	797	902	1020	1140	1270	1410	1560					0.1	0.2	
M6WH-0025-IAA	ASE20C4E-IAA				1180	1420	1650	1870	2110	2350	2620	2910	3230			0.3	0.4
M6WL-0033-IAA	AFE11C4E-IAA	801	924	1060	1210	1380	1560	1750	1960	2180					0.1	0.2	
M6WH-0036-IAA	ASE24C5E-IAA				1270	1560	1820	2050	2290	2550	2850	3220	3680			0.3	0.5
M6WL-0040-IAA	AFE14C5E-IAA	1150	1330	1530	1750	1980	2240	2520	2820	3150					0.2	0.3	
M6WL-0051-IAA	AFE17C4E-IAA	1420	1630	1870	2130	2420	2730	3070	3430	3810					0.2	0.4	
M6WH-0050-CAA	ASE32C5E-CAA				2210	2390	2610	2900	3250	3650	4110	4620	5200			0.4	0.6
M6WF-0056-IAA	RST45C1E-IAA	1490	1770	2080	2430	2820	3230	3690	4180	4710	5270	5860	6500		0.3	0.5	0.8
M6WF-0056-IAV	RST45C1E-IAV	1310	1710	2110	2520	2940	3380	3840	4330	4850	5410	6010	6660		0.2	0.5	0.8
M6WF-0075-CAA	RST55C1E-CAA	1690	2100	2530	3000	3500	4040	4620	5230	5890	6580	7320	8110		0.3	0.6	1.0
M6WL-0067-CAA	RFT26C1E-CAA	1750	2040	2360	2710	3100	3520	3980	4500	5060					0.3	0.6	
M6WF-0075-CAV	RST55C1E-CAV	2150	2450	2800	3210	3680	4190	4760	5380	6040	6760	7520	8330		0.3	0.6	1.0
M6WL-0075-IAV	RST64C1E-IAV	2590	3040	3530	4080	4670	5310	5990	6730	7510	8340	9220	10100		0.4	0.8	1.3
M6WF-0106-CAV	RST64C1E-CAV	2470	2970	3510	4090	4720	5390	6110	6870	7680	8530	9420	10400		0.4	0.8	1.3
M6WL-0075-CFA	RST64C1E-CFA	2550	3050	3570	4120	4700	5330	5990	6710	7480	8310	9210	10200		0.4	0.8	1.3
M6WF-0125-CFV	RST70C1E-PFV	2490	2990	3550	4160	4830	5540	6300	7120	7990	8900	9870	10900		0.4	0.8	1.3
M6WF-0125-TAC	RST70C1E-TA5	2560	3080	3640	4230	4860	5530	6250	7020	7850	8740	9690	10700		0.4	0.8	1.3
M6WF-0126-TAC	RST80C1E-TA5	3050	3610	4240	4920	5650	6450	7310	8220	9190	10200	11300	12500		0.5	0.9	1.5
M6WL-0105-TAC	RST80C1E-TA5	3050	3610	4240	4920	5650	6450	7310	8220	9190	10200	11300	12500		0.5	0.9	1.5
M6WF-0126-CFV	RST80C1E-PFV	3080	3650	4280	4960	5710	6520	7380	8300	9280	10300	11400	12600		0.5	0.9	1.5
M6WL-0105-CFV	RST80C1E-PFV	3080	3650	4280	4960	5710	6520	7380	8300	9280	10300	11400	12600		0.5	0.9	1.5

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

R-448A

Copeland™ water-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	-25	0	25
BTU/H at 105° condensing, 75° water inlet - evaporator temp (°F)															Water flow (GPM) at evaporator temp (°F)		
M6WL-0025-IAA	AFE08C4E-IAA	588	679	789	917	1060	1220	1400	1600	1810					0.1	0.2	
M6WL-0033-IAA	AFE11C4E-IAA	691	797	926	1080	1250	1440	1650	1880	2120					0.1	0.2	
M6WH-0025-IAA	ASE20C4E-IAA				983	1240	1480	1730	1980	2240	2520	2830	3180		0.2	0.4	
M6WH-0036-IAA	ASE24C5E-IAA				1280	1480	1710	1960	2240	2550	2880	3250	3650		0.2	0.4	
M6WL-0040-IAA	AFE14C5E-IAA	1020	1180	1350	1550	1770	2010	2280	2570	2900					0.2	0.3	
M6WH-0050-CAA	ASE32C5E-CAA				2270	2280	2460	2760	3170	3640	4160	4690	5200		0.3	0.6	
M6WL-0051-IAA	AFE17C4E-IAA	1260	1460	1700	1980	2290	2630	2980	3360	3750					0.2	0.4	
M6WF-0056-IAV	RST45C1E-IAV				2050	2420	2820	3250	3740	4270	4880	5550	6310		0.4	0.8	
M6WF-0056-IAA	RST45C1E-IAA				2150	2500	2890	3330	3830	4390	5030	5740	6540		0.4	0.8	
M6WF-0075-CAA	RST55C1E-CAA				2640	3070	3560	4100	4710	5410	6190	7060	8050		0.5	0.9	
M6WF-0075-CAV	RST55C1E-CAV				2760	3170	3670	4260	4930	5700	6560	7500	8530		0.5	1.0	
M6WL-0067-CAA	RFT26C1E-CAA	1470	1720	2040	2410	2840	3330	3870	4470	5130					0.3	0.6	
M6WL-0075-IAV	RST64C1E-IAV				3370	3890	4470	5100	5810	6610	7500	8510	9630		0.7	1.2	
M6WF-0125-CFV	RST70C1E-PFV				3630	4270	4960	5690	6480	7320	8220	9170	10200		0.7	1.2	
M6WL-0075-CFA	RST64C1E-CFA				3720	4300	4930	5630	6420	7300	8280	9390	10600		0.7	1.3	
M6WF-0106-CAV	RST64C1E-CAV				3520	4070	4720	5470	6310	7250	8270	9400	10600		0.7	1.3	
M6WF-0125-TAC	RST70C1E-TA5				3800	4450	5150	5900	6720	7600	8540	9550	10600		0.7	1.2	
M6WF-0126-CFV	RST80C1E-PFV				4330	5060	5830	6660	7560	8510	9540	10600	11800		0.8	1.4	
M6WL-0105-CFV	RST80C1E-PFV				4330	5060	5830	6660	7560	8510	9540	10600	11800		0.8	1.4	
M6WF-0126-TAC	RST80C1E-TA5				4420	5180	6000	6900	7860	8890	9990	11100	12400		0.8	1.4	
M6WL-0105-TAC	RST80C1E-TA5				4420	5180	6000	6900	7860	8890	9990	11100	12400		0.8	1.4	

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

R-449A

Copeland™ water-cooled condensing units

Model	Compressor	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	-25	0	25
BTU/H at 105° condensing, 75° water inlet - evaporator temp (°F)															Water flow (GPM) at evaporator temp (°F)		
M6WL-0025-IAA	AFE08C4E-IAA	588	679	789	917	1060	1230	1400	1600	1810					0.1	0.2	
M6WL-0033-IAA	AFE11C4E-IAA	691	798	927	1080	1250	1440	1650	1880	2120					0.1	0.2	
M6WH-0025-IAA	ASE20C4E-IAA				984	1240	1480	1730	1980	2240	2520	2840	3180		0.2	0.4	
M6WH-0036-IAA	ASE24C5E-IAA				1280	1480	1710	1960	2240	2550	2880	3250	3660		0.2	0.4	
M6WL-0040-IAA	AFE14C5E-IAA	1030	1180	1350	1550	1770	2010	2280	2580	2900					0.2	0.3	
M6WH-0050-CAA	ASE32C5E-CAA				2270	2290	2460	2760	3170	3650	4160	4690	5200		0.3	0.6	
M6WL-0051-IAA	AFE17C4E-IAA	1260	1460	1700	1980	2290	2630	2990	3360	3750					0.2	0.4	
M6WF-0056-IAV	RST45C1E-IAV				2050	2420	2820	3250	3740	4280	4880	5560	6310		0.4	0.8	
M6WF-0056-IAA	RST45C1E-IAA				2150	2500	2890	3330	3830	4390	5030	5740	6540		0.4	0.8	
M6WF-0075-CAA	RST55C1E-CAA				2640	3070	3560	4100	4720	5410	6190	7070	8050		0.5	0.9	
M6WF-0075-CAV	RST55C1E-CAV				2760	3170	3670	4260	4940	5710	6560	7510	8530		0.5	1.0	
M6WL-0067-CAA	RFT26C1E-CAA	1470	1720	2040	2410	2840	3330	3870	4470	5130					0.3	0.6	
M6WL-0075-IAV	RST64C1E-IAV				3370	3890	4470	5110	5820	6610	7510	8510	9630		0.7	1.2	
M6WF-0106-CAV	RST64C1E-CAV				3520	4070	4720	5470	6310	7250	8280	9400	10600		0.7	1.3	
M6WF-0125-CFV	RST70C1E-PFV				3630	4270	4960	5700	6480	7320	8220	9180	10200		0.7	1.2	
M6WL-0075-CFA	RST64C1E-CFA				3720	4300	4930	5640	6420	7300	8290	9390	10600		0.7	1.3	
M6WF-0125-TAC	RST70C1E-TA5				3800	4450	5150	5910	6720	7600	8540	9560	10600		0.7	1.2	
M6WF-0126-CFV	RST80C1E-PFV				4330	5060	5830	6670	7560	8510	9540	10600	11800		0.8	1.4	
M6WL-0105-CFV	RST80C1E-PFV				4330	5060	5830	6670	7560	8510	9540	10600	11800		0.8	1.4	
M6WF-0126-TAC	RST80C1E-TA5				4420	5180	6010	6900	7870	8900	9990	11200	12400		0.8	1.5	
M6WL-0105-TAC	RST80C1E-TA5				4420	5180	6010	6900	7870	8900	9990	11200	12400		0.8	1.5	

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

R-450A

Copeland™ water-cooled condensing units

Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45	0	25	45
BTU/H at 105° condensing, 75° water inlet - evaporator temp (°F)													Water flow (GPM) at evaporator temp (°F)		
M7WH-0026-IAA	ARE29C4E-IAA		1100	1250	1410	1600	1820	2060	2320	2600	2900	3230	0.2	0.3	0.4
M7WH-0033-IAA	ARE35C5E-IAA		1240	1430	1640	1870	2130	2400	2710	3040	3400	3780	0.2	0.3	0.5
M7WH-0040-IAA	ARE40C4E-IAA		1480	1700	1950	2220	2520	2850	3200	3570	3970	4390	0.2	0.4	0.6
M7WH-0049-IAV	ARE51C4E-IAV		1760	2030	2320	2650	3010	3410	3840	4300	4800	5330	0.3	0.5	0.8
M7WH-0050-IAV	RRT62C1E-IAV	1830	2100	2410	2760	3150	3590	4060	4580	5130	5720	6340	0.3	0.6	0.8
M7WH-0050-IAA	RRT62C1E-IAA	1780	2090	2430	2800	3200	3630	4100	4610	5170	5770	6430	0.3	0.6	0.9
M7WH-0056-IAV	RRT64C1E-IAV	2150	2470	2840	3260	3720	4220	4770	5370	6010	6690	7430	0.4	0.7	1.0
M7WH-0056-IAA	RRT64C1E-IAA	2230	2560	2940	3360	3830	4340	4910	5520	6180	6880	7640	0.4	0.7	1.0
M7WM-0075-CFA	RRT10K1E-PFA	3350	3920	4550	5230	5970	6760	7590	8480	9420	10400	11400	0.5	1.0	1.4
M7WM-0075-CFV	RRT10K1E-PFV	3440	4060	4700	5370	6090	6860	7690	8580	9570	10600	11800	0.6	1.0	1.5

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

R-513A

Copeland™ water-cooled condensing units

Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45	0	25	45
BTU/H at 105° condensing, 75° water inlet - evaporator temp (°F)													Water flow (GPM) at evaporator temp (°F)		
M7WH-0026-IAA	ARE29C4E-IAA		1420	1590	1780	2000	2240	2510	2810	3140	3480	3860	0.2	0.3	0.5
M7WH-0033-IAA	ARE35C5E-IAA		1550	1780	2040	2330	2650	2990	3350	3740	4160	4600	0.2	0.4	0.6
M7WH-0040-IAA	ARE40C4E-IAA		1910	2170	2450	2760	3110	3480	3880	4300	4760	5240	0.3	0.5	0.7
M7WH-0049-IAV	ARE51C4E-IAV		2390	2710	3070	3460	3900	4370	4890	5450	6040	6680	0.4	0.6	0.9
M7WH-0050-IAV	RRT62C1E-IAV	2260	2570	2930	3350	3820	4330	4890	5500	6150	6840	7570	0.4	0.7	1.0
M7WH-0050-IAA	RRT62C1E-IAA	2100	2510	2940	3390	3870	4380	4930	5530	6180	6880	7640	0.4	0.7	1.0
M7WH-0056-IAV	RRT64C1E-IAV	2650	3030	3470	3960	4500	5100	5740	6450	7200	8000	8860	0.5	0.8	1.2
M7WH-0056-IAA	RRT64C1E-IAA	2630	3070	3540	4060	4620	5230	5890	6610	7380	8200	9090	0.4	0.8	1.2
M7WM-0075-CFA	RRT10K1E-PFA	3920	4540	5230	5980	6800	7690	8660	9710	10800	12100	13400	0.7	1.2	1.7
M7WM-0075-CFV	RRT10K1E-PFV	4030	4680	5390	6160	7010	7920	8920	10000	11200	12400	13800	0.7	1.2	1.7

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

Copeland to Copeland Cross Reference

Old Model	Compressor Model	Length	Width	Height	Liquid Conn.	Suction Conn.	MCA	Old Rated Capacities			
								LT_134A	LT_404A	MT_134A	MT_404A
F3AH-B100-CAV-072	RST64C1-CAV-198	24.30	17.20	13.10	3/8	5/8	12.4				
F3AH-B100-CFA-020	RST64C1-CFA-198	24.30	17.10	13.10	3/8	5/8	20.3				
F3AH-B105-CFV-020	RST70C1-PFV-199	24.00	18.30	16.20	3/8	5/8	11				
F3AH-B105-TAC-020	RST70C1-TA5-199	24.00	18.30	16.20	3/8	5/8	7.5				
F3AH-N100-CAV-199	RST64C1-CAV-198						9.1				
F3AH-N100-CFA-199	RST64C1-CFA-198						18.3				
F3AH-N110-CFV-199	RST80C1-PFV-199						11.6				
F3AH-N120-CFV-199	RST97C1-PFV-199						12.5				
F3AH-N125-CFV-199	RST10K1-PFV-199						13.1				
F3AH-N125-TAC-199	RST10K1-TA5-199						8.3				
F3WH-B105-CFV-020	RST70C1-PFV-199	19.10	24.20	12.80	3/8	5/8	9.6				
F3WH-B105-TAC-020	RST70C1-TA5-199	24.23	19.07	12.76	3/8	5/8	6.1				
FBAH-C100-CFV-020	RRT10K1-PFV-199	24.00	17.47	13.06	3/8	5/8	11.2				
FEAF-0103-CAV-060	RST64C1E-CAV-108						13.3		3850		7700
FEAF-0103-CAV-140	RST64C1E-CAV-108	17.40	26.60	11.80	1/4	1/2	13.3		3850		7700
FEAF-A100-CFV-140	RST97C1E-PFV-150	24.00	27.00	15.98	1/2	1/2	13.7		5120		9780
FEAM-0108-CFA-160	RST80C1E-PFA-150	19.50	27.92	13.13	3/8	5/8	24.5		5020		9930
FEAM-0108-CFV-160	RST80C1E-PFV-150	19.97	27.73	12.04	3/8	5/8	12.8		5020		9930
FEAM-0108-CFV-161	RST80C1E-PFV-150						12.8		5020		9930
FEAM-A100-IAV-160	RST64C1E-IAV-108	19.50	27.70	11.90	3/8	5/8	12.5				
FEAM-A130-CFV-160	RST97C1E-PFV-150	19.50	27.70	12.00	3/8	5/8	13.7				10700
FJAF-0100-CAV-020	RST64C1E-CAV-108	24.00	17.04	13.38	3/8	5/8	12.4		4010		8080
FJAF-0100-CAV-040	RST64C1E-CAV-108	24.00	17.06	13.38	3/8	5/8	12.4		4010		8080
FJAF-0100-CAV-060	RST64C1E-CAV-108	24.00	16.90	13.10	3/8	1/2	12.4		4010		8080
FJAF-0100-CAV-061	RST64C1E-CAV-102	24.00	17.10	18.00	3/8	1/2	12.4		4010		8080
FJAF-0100-CAV-272	RST64C1E-CAV-108	24.00	17.06	13.02	3/8	5/8	12.4		4010		8080
FJAF-0100-IAV-140	RST64C1E-IAV-108	24.00	16.80	13.10	3/8	5/8	12.4		4010		8080
FJAF-0100-IAV-212	RST64C1E-IAV-108	24.00	16.90	13.10	3/8	5/8	12.4		4010		8080
FJAF-0106-CAV-017	RST64C1E-CAV-108	24.00	18.30	16.10	3/8	7/8	12.7		4090		8500
FJAF-0106-CAV-020	RST64C1E-CAV-108	24.00	18.30	16.10	3/8	7/8	12.7		4090		8500
FJAF-0106-CAV-022	RST64C1E-CAV-108						12.7		4090		8500
FJAF-0106-CAV-0H2	RST64C1E-CAV-108	30.50	25.60	22.60	3/8	7/8	12.7		4090		8500
FJAF-0106-CAV-0H3	RST64C1E-CAV-108	30.50	25.30	22.60	3/8	5/8	12.7		4090		8500
FJAF-0106-CAV-160	RST64C1E-CAV-108	24.00	18.33	16.10	3/8	1/2	12.7		4090		8500
FJAF-0106-CAV-208	RST64C1E-CAV-108						12.7		4090		8500
FJAF-0108-CFV-020	RST80C1E-PFV-150	24.00	17.30	13.00	3/8	5/8	12.8		4690		9230
FJAF-0108-CFV-021	RST80C1E-PFV-150	24.00	17.46	13.01	3/8	5/8	12.8		4690		9230
FJAF-0108-CFV-040	RST80C1E-PFV-150	24.00	16.01	13.01	3/8	5/8	12.8		4690		9230
FJAF-0108-CFV-052	RST80C1E-PFV-150	24.00	17.29	13.01	3/8	5/8	12.8		4690		9230
FJAF-0108-CFV-072	RST80C1E-PFV-150	24.00	17.50	13.01	3/8	5/8	12.8		4690		9230
FJAF-0108-CFV-075	RST80C1E-PFV-150	17.50	24.00	13.01	3/8	5/8	12.8		4690		9230
FJAF-0108-CFV-076	RST80C1E-PFV-150						12.8		4690		9230
FJAF-0108-CFV-121	RST80C1E-PFV-150	24.00	17.44	13.01	3/8	5/8	12.8		4690		9230
FJAF-0108-CFV-160	RST80C1E-PFV-150	24.00	17.60	13.00	3/8	1/2	12.8		4690		9230
FJAF-0108-CFV-212	RST80C1E-PFV-150	24.00	17.50	13.00	3/8	5/8	12.8		4690		9230
FJAF-0108-TAC-020	RST80C1E-TA5-150	24.00	17.28	13.01	3/8	5/8	8.3		4690		9230
FJAF-0108-TAC-052	RST80C1E-TA5-150	24.00	17.28	13.01	3/8	5/8	8.3		4690		9230
FJAF-0110-CFV-021	RST97C1E-PFV-150	24.00	17.27	13.06	3/8	5/8	13.7				
FJAF-0125-CFV-020	RST70C1E-PFV-150	24.00	18.33	16.08	3/8	5/8	11		4310		9330
FJAF-0125-CFV-072	RST70C1E-PFV-150	24.00	18.31	16.08	3/8	5/8	11		4310		9330
FJAF-0125-CFV-075	RST70C1E-PFV-150	24.00	18.97	16.08	3/8	5/8	11		4310		9330
FJAF-0125-CFV-077	RST70C1E-PFV-150	24.00	18.97	16.08	3/8	1/2	11		4310		9330
FJAF-0125-TAC-020	RST70C1E-TA5-150	24.00	18.33	16.08	3/8	5/8	8.3		4310		9330
FJAF-0125-TAC-060	RST70C1E-TA5-150	24.00	18.33	16.08	3/8	1/2	8.3		4310		9330
FJAF-0125-TAC-061	RST70C1E-TA5-150	24.00	18.30	16.10	3/8	1/2	8.3		4310		9330
FJAF-0125-TAC-072	RST70C1E-TA5-150	24.00	18.29	16.08	3/8	5/8	8.3		4310		9330
FJAF-0125-TAC-075	RST70C1E-TA5-150	24.00	18.89	16.08	3/8	5/8	8.3		4310		9330
FJAF-0125-TAC-076	RST70C1E-TA5-150	24.00	18.44	16.15	3/8	5/8	8.3		4310		9330
FJAF-0125-TAC-077	RST70C1E-TA5-150	24.00	18.89	16.08	3/8	1/2	8.3		4310		9330
FJAF-0126-CFV-020	RST80C1E-PFV-150	24.00	18.33	16.50	3/8	5/8	13		5030		10500
FJAF-0126-TAC-020	RST80C1E-TA5-150	24.00	18.33	16.15	3/8	5/8	8.5		5030		10500
FJAF-0126-TAC-060	RST80C1E-TA5-150	24.00	18.33	16.15	3/8	1/2	8.5		5030		10500

New Model	New Compressor Model	New Length	New Width	New Height	New Liquid	New Suction	New MCA	New Rated Capacities			
								LT_134a	LT_404A	MT_134a	MT_404A
Obsolete R22 Unit											
Obsolete R22 Unit											
Obsolete R22 Unit											
Obsolete R22 Unit											
Obsolete R22 Unit											
Obsolete R22 Unit											
Obsolete R22 Unit											
Obsolete R22 Unit											
Obsolete R22 Unit											
Obsolete R22 Unit											
Obsolete R22 Unit											
Obsolete R22 Unit											
Obsolete R22 Unit											
M6RP-H098-CAV-072	RST64C1E-CAV-102	19.50	28.08	12.23	3/8	1/2	12.5		4240		8350
M6RP-H098-CAV-072	RST64C1E-CAV-102	19.50	28.08	12.23	3/8	1/2	12.5		4240		8350
M6RP-H114-CFV-072	RST80C1E-PFV-150	28.00	19.50	11.89	3/8	5/8	12.8		4980		9890
Obsolete											
M6RP-H114-CFV-072	RST80C1E-PFV-150	19.50	28.00	11.89	3/8	5/8	12.8		4980		9890
M6RP-H114-CFV-072	RST80C1E-PFV-150	19.50	28.00	11.89	3/8	5/8	12.8		4980		9890
M6RP-H098-CAV-072	RST64C1E-CAV-102	19.50	28.08	12.23	3/8	1/2	12.5		4240		8350
M6RP-H126-CFV-072	RST97C1E-PFV-150	28.00	19.50	11.89	3/8	5/8	13.7		5570		10500
M6KP-0095-CFV-072	RST70C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	10.8		4100		8310
M6KP-0095-CFV-072	RST70C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	10.8		4100		8310
M6KP-0095-CFV-072	RST70C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	10.8		4100		8310
M6KP-0095-CFV-072	RST70C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	10.8		4100		8310
M6KP-0095-CFV-072	RST70C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	10.8		4100		8310
M6KP-0095-CFV-272	RST70C1E-PFV-150	16.39	24.00	13.08	3/8	5/8	10.8		4100		8310
M6KP-0092-CAV-272	RST64C1E-CAV-102	24.00	16.39	13.08	3/8	3/8	12.4		4050		7750
M6KP-0092-CAV-177	RST64C1E-CAV-102	24.00	16.39	13.08	1/4	3/8	12.4		4050		7750
M6KP-0102-CAV-072	RST64C1E-CAV-102	24.00	18.30	16.16	3/8	3/8	12.7		4420		9150
M6KP-0102-CAV-072	RST64C1E-CAV-102	24.00	18.30	16.16	3/8	3/8	12.7		4420		9150
M6KP-0102-CAV-072	RST64C1E-CAV-102	24.00	18.30	16.16	3/8	3/8	12.7		4420		9150
M6KP-0102-CAV-072	RST64C1E-CAV-102	24.00	18.30	16.16	3/8	3/8	12.7		4420		9150
M6KP-0102-CAV-072	RST64C1E-CAV-102	24.00	18.42	16.16	3/8	1/2	12.7		4420		9150
M6KP-0102-CAV-177	RST64C1E-CAV-102	24.00	18.42	16.16	3/8	1/2	12.7		4420		9150
M6KP-0102-CAV-179	RST64C1E-CAV-102	24.00	18.30	16.16	1/4		12.7		4420		9150
M6KP-0106-CFV-072	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	12.8		4690		9100
M6KP-0106-CFV-072	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	12.8		4690		9100
M6KP-0106-CFV-072	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	12.8		4690		9100
M6KP-0106-CFV-072	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	12.8		4690		9100
M6KP-0106-CFV-072	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	12.8		4690		9100
M6KP-0106-CFV-072	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	12.8		4690		9100
M6KP-0106-CFV-072	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	12.8		4690		9100
M6KP-0106-CFV-177	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	1/2	12.8		4690		9100
M6KP-0106-CFV-177	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	1/2	12.8		4690		9100
M6KP-0106-CFV-177	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	1/2	12.8		4690		9100
M6KP-0106-CFV-177	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	1/2	12.8		4690		9100
M6KP-0106-TAC-072	RST80C1E-TA5-150	24.00	16.41	13.08	3/8	1/2	8.3		4690		9100
M6KP-0106-TAC-072	RST80C1E-TA5-150	24.00	16.41	13.08	3/8	1/2	8.3		4690		9100
M6KP-0116-CFV-072	RST97C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	13.7		5240		9620
M6KP-0112-CFV-072	RST70C1E-PFV-150	24.00	18.30	16.16	3/8	1/2	11		4580		9650
M6KP-0112-CFV-072	RST70C1E-PFV-150	24.00	18.30	16.16	3/8	1/2	11		4580		9650
M6KP-0112-CFV-072	RST70C1E-PFV-150	24.00	18.30	16.16	3/8	1/2	11		4580		9650
M6KP-0112-CFV-072	RST70C1E-PFV-150	24.00	18.30	16.16	3/8	1/2	11		4580		9650
M6KP-0112-TAC-072	RST70C1E-TA5-150	24.00	18.33	16.16	3/8	1/2	8.3		4580		9650
M6KP-0112-TAC-072	RST70C1E-TA5-150	24.00	18.33	16.16	3/8	1/2	8.3		4580		9650
M6KP-0112-TAC-072	RST70C1E-TA5-150	24.00	18.33	16.16	3/8	1/2	8.3		4580		9650
M6KP-0112-TAC-072	RST70C1E-TA5-150	24.00	18.33	16.16	3/8	1/2	8.3		4580		9650
M6KP-0112-TAC-072	RST70C1E-TA5-150	24.00	18.33	16.16	3/8	1/2	8.3		4580		9650
M6KP-0112-TAC-072	RST70C1E-TA5-150	24.00	18.33	16.16	3/8	1/2	8.3		4580		9650
M6KP-0112-TAC-072	RST70C1E-TA5-150	24.00	18.33	16.16	3/8	1/2	8.3		4580		9650
M6KP-0112-TAC-072	RST70C1E-TA5-150	24.00	18.33	16.16	3/8	1/2	8.3		4580		9650
M6KP-0112-TAC-072	RST70C1E-TA5-150	24.00	18.33	16.16	3/8	1/2	8.3		4580		9650
M6KP-0127-CFV-072	RST80C1E-PFV-150	24.00	18.30	16.16	3/8	1/2	13		5270		11000
M6KP-0127-TAC-072	RST80C1E-TA5-150	24.00	18.33	16.16	3/8	1/2	8.5		5270		11000
M6KP-0127-TAC-072	RST80C1E-TA5-150	24.00	18.33	16.16	3/8	1/2	8.5		5270		11000

Copeland to Copeland Cross Reference

Old Model	Compressor Model	Length	Width	Height	Liquid Conn.	Suction Conn.	MCA	Old Rated Capacities			
								LT_134A	LT_404A	MT_134A	MT_404A
FJAF-0126-TAC-061	RST80C1E-TA5-150	24.00	18.33	16.15	3/8	1/2	8.5		5030		10500
FJAF-0130-CFV-072	RST97C1E-PFV-150	24.00	18.33	16.15	3/8	5/8	13.9		5720		11800
FJAF-0130-CFV-075	RST97C1E-PFV-150	24.00	18.91	16.15	3/8	5/8	13.9		5720		11800
FJAF-0130-CFV-076	RST97C1E-PFV-150	24.00	18.30	16.10	1/4	1/2	13.9		5720		11800
FJAF-0130-CFV-077	RST97C1E-PFV-150	24.00	18.90	16.10	3/8	1/2	13.9		5720		11800
FJAF-0130-CFV-0H2	RST97C1E-PFV-150	30.50	25.20	22.60	3/8	5/8	13.9		5720		11800
FJAF-0130-CFV-212	RST97C1E-PFV-150	24.00	18.30	16.10	3/8	5/8	13.9		5720		11800
FJAF-0130-CFV-272	RST97C1E-PFV-150	24.00	18.33	16.15	3/8	5/8	20		5720		11800
FJAF-0130-TAC-076	RST97C1E-TA5-150	24.00	24.00	16.20	3/8	1/2	8.9		5720		11800
FJAF-0130-TAC-077	RST97C1E-TA5-150	24.00	18.90	16.10	3/8	1/2	8.9		5720		11800
FJAF-0130-TAC-0H2	RST97C1E-TA5-150	30.50	25.20	22.60	3/8	5/8	8.9		5720		11800
FJAF-B100-CFV-021	RST97C1E-PFV-150	24.00	17.27	13.01	3/8	5/8	13.7		5230		10100
FJAF-B100-CFV-115	RST97C1E-PFV-150	24.00	17.18	13.06	3/8	5/8	13.7		5230		10100
FJAF-B100-CFV-121	RST97C1E-PFV-150	24.00	17.40	13.10	3/8	5/8	13.7		5230		10100
FJAF-B100-CFV-210	RST97C1E-PFV-150	24.00	16.71	13.01	3/8	5/8	13.7		5230		10100
FJAF-B100-CFV-212	RST97C1E-PFV-150	24.00	17.47	13.05	3/8	5/8	13.7		5230		10100
FJAF-B100-CFV-221	RST97C1E-PFV-150						13.7		5230		10100
FJAF-B100-CFV-240	RST97C1E-PFV-150	24.00	22.99	13.01	3/8	5/8	13.7		5230		10100
FJAF-B100-CFV-245	RST97C1E-PFV-150	24.00	17.41	13.01	3/8	5/8	13.7		5230		10100
FJAF-E100-CAV-020	RST64C1E-CAV-108	24.00	17.04	13.38	3/8	5/8	12.3				
FJAF-E100-CAV-040	RST64C1E-CAV-108	24.00	17.06	13.38	3/8	5/8	12.3				
FJAF-E100-CAV-041	RST64C1E-CAV-108						12.3				
FJAF-E108-CFV-020	RST80C1E-PFV-150	24.00	17.30	13.00	3/8	5/8	12.7		4690		9230
FJAF-E108-CFV-160	RST80C1E-PFV-150	24.00	17.60	13.00	3/8	1/2	12.7		4690		9230
FJAF-E110-CFV-021	RST97C1E-PFV-150	24.00	17.27	13.01	3/8	5/8	13.6		5230		10100
FJAF-E110-CFV-022	RST97C1E-PFV-150						13.6		5230		10100
FJAF-E110-CFV-040	RST97C1E-PFV-150	24.00	17.45	13.06	3/8	5/8	13.6		5230		10100
FJAF-E110-CFV-121	RST97C1E-PFV-150	24.00	17.40	13.10	3/8	5/8	13.6		5230		10100
FJAF-E110-CFV-212	RST97C1E-PFV-150	24.00	17.47	13.05	3/8	5/8	13.6		5230		10100
FJAL-0105-CFV-020	RFT42C1E-PFV-102	24.00	17.32	13.01	3/8	5/8	11.2		4960		
FJAL-0105-CFV-040	RFT42C1E-PFV-102	28.37	18.08	14.51	5/8	1 1/8	11.2		4960		
FJAL-0105-CFV-044	RFT42C1E-PFV-102	28.40	19.00	14.50	5/8	1 1/8	11.2		4960		
FJAL-0105-CFV-072	RFT42C1E-PFV-102	24.00	17.46	13.01	3/8	5/8	11.2		4960		
FJAL-0105-CFV-075	RFT42C1E-PFV-102	24.00	17.50	13.01	3/8	5/8	11.2		4960		
FJAL-0105-CFV-077	RFT42C1E-PFV-102	24.00	17.50	13.01	3/8	3/8	11.2		4960		
FJCL-B100-CFV-212	RST97C1E-PFV-150	23.56	13.33	11.86	1/4	5/8	13.5		4760		
FJCL-B100-CFV-215	RST97C1E-PFV-150	22.28	13.03	11.73	1/4	1/2	13.5		4760		
FJEF-0100-CAV-160	RST64C1E-CAV-102	24.00	16.30	13.58	3/8	1/2	12.4		3940		7900
FJEF-0100-CAV-260	RST64C1E-CAV-108	24.00	17.10	14.00	3/8	1/2	12.4		3940		7900
FJEF-0100-CFA-121	RST64C1E-CFA-102	24.00	16.30	13.70	1/2	3/8	20.3		3940		7900
FJEF-0108-CFV-060	RST80C1E-PFV-150	24.00	17.11	13.63	3/8	1/2	12.8		4650		9060
FJEF-0108-CFV-121	RST80C1E-PFV-150	24.00	17.11	13.63	3/8	1/2	12.8		4650		9060
FJEF-0108-CFV-212	RST80C1E-PFV-150	24.00	17.11	13.59	3/8	5/8	12.8		4650		9060
FJEL-0105-CFV-060	RFT42C1E-PFV-102	25.01	17.11	13.58	3/8	5/8	11.2		4920		
FJEL-0105-CFV-160	RFT42C1E-PFV-102	24.00	16.30	13.58	3/8	5/8	11.2		4920		
FJWF-C106-CAV-020	RST64C1E-CAV-108	24.20	17.20	10.70	3/8	7/8	11.3		4120		9470
FJWF-C125-CFV-020	RST70C1E-PFV-150	24.23	19.06	12.75	3/8	5/8	9.6		4160		9870
FJWF-C125-TAC-020	RST70C1E-TA5-150	24.23	19.06	12.75	3/8	5/8	6.9		4160		9870
FJWF-C125-TAC-060											
FJWF-C126-CFV-020	RST80C1E-PFV-150	24.23	17.79	12.75	3/8	5/8	11.6		4960		11400
FJWF-C126-CFV-276	RST80C1E-PFV-150	24.23	17.69	14.31	3/8	1/2	11.6				
FJWF-C126-TAC-020	RST80C1E-TA5-150	24.23	18.03	12.75	3/8	5/8	7.1		4960		11400
FJWF-C126-TAC-060											
FJWL-C105-CFV-020	RST80C1E-PFV-150	24.00	16.43	12.05	3/8	5/8	12.2		4960		
FJWL-C105-TAC-020	RST80C1E-TA5-150	24.00	16.55	12.00	3/8	5/8	7.7		4960		
FTAH-C100-CFA-121	RRT10K1E-PFA-150	24.00	17.28	13.01	3/8	5/8	19			7620	
FTAH-C100-CFV-020	RRT10K1E-PFV-150	24.00	17.29	13.01	3/8	5/8	11.2			7620	
FTAH-C100-CFV-117	RRT10K1E-PFV-150	24.00	16.50	13.01	1/4	1/2	11.2			7620	
FTAH-C100-CFV-212	RRT10K1E-PFV-150	24.00	17.46	13.01	3/8	5/8	11.2			7620	
FTAH-C100-CFV-240	RRT10K1E-PFV-150	24.00	16.87	13.01	3/8	5/8	11.2			7620	
M2CH-0024-IAA-121	ARE25C3E-IAA-103						6.6			1530	
M2CH-0040-IAA-060	ARE41C3E-IAA-103	17.38	13.57	9.79	1/4	3/8	10.2			2730	

New Model	New Compressor Model	New Length	New Width	New Height	New Liquid	New Suction	New MCA	New Rated Capacities			
								LT_134a	LT_404A	MT_134a	MT_404A
M6KP-0127-TAC-072	RST80C1E-TA5-150	24.00	18.33	16.16	3/8	1/2	8.5		5270		11000
M6KP-0142-CFV-072	RST97C1E-PFV-150	24.00	18.30	16.16	3/8	1/2	13.9		5920		11900
M6KP-0142-CFV-072	RST97C1E-PFV-150	24.00	18.30	16.16	3/8	1/2	13.9		5920		11900
M6KP-0142-CFV-072	RST97C1E-PFV-150	24.00	18.30	16.16	3/8	1/2	13.9		5920		11900
M6KP-0142-CFV-072	RST97C1E-PFV-150	24.00	18.30	16.16	3/8	1/2	13.9		5920		11900
M6KP-0142-CFV-072	RST97C1E-PFV-150	24.00	18.30	16.16	3/8	1/2	13.9		5920		11900
M6KP-0142-CFV-177	RST97C1E-PFV-150	24.00	18.45	16.16	3/8	1/2	13.9		5920		11900
M6KP-0142-CFV-177	RST97C1E-PFV-150	24.00	18.45	16.16	3/8	1/2	13.9		5920		11900
M6KP-0142-TAC-072	RST97C1E-TA5-150	24.00	18.33	16.16	3/8	1/2	8.9		5920		11900
M6KP-0142-TAC-072	RST97C1E-TA5-150	24.00	18.33	16.16	3/8	1/2	8.9		5920		11900
M6KP-0142-TAC-072	RST97C1E-TA5-150	24.00	18.33	16.16	3/8	1/2	8.9		5920		11900
M6KP-0106-CFV-072	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	12.8		4690		9100
M6KP-0106-CFV-072	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	12.8		4690		9100
M6KP-0106-CFV-177	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	1/2	12.8		4690		9100
M6KP-0106-CFV-272	RST80C1E-PFV-150	16.39	24.00	13.08	3/8	5/8	12.8		4690		9100
M6KP-0106-CFV-177	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	1/2	12.8		4690		9100
M6KP-0106-CFV-177	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	1/2	12.8		4690		9100
M6KP-0106-CFV-177	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	1/2	12.8		4690		9100
M6KP-0106-CFV-272	RST80C1E-PFV-150	16.39	24.00	13.08	3/8	5/8	12.8		4690		9100
M6KP-0095-CFV-072	RST70C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	10.8		4100		8310
M6KP-0095-CFV-072	RST70C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	10.8		4100		8310
M6KP-0095-CFV-072	RST70C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	10.8		4100		8310
M6KP-0106-CFV-177	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	12.8		4690		9100
M6KP-0106-CFV-177	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	12.8		4690		9100
M6KP-0106-CFV-072	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	12.8		4690		9100
M6KP-0106-CFV-072	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	12.8		4690		9100
M6KP-0106-CFV-072	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	12.8		4690		9100
M6KP-0106-CFV-072	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	12.8		4690		9100
M6KP-0106-CFV-072	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	12.8		4690		9100
M6KP-0106-CFV-177	RST80C1E-PFV-150	24.00	16.39	13.08	3/8	1/2	12.8		4690		9100
M6KL-0123-CFV-072	RFT42C1E-PFV-102	24.00	16.39	13.08	3/8	3/8	11.2		4900		
M6KL-0123-CFV-072	RFT42C1E-PFV-102	24.00	16.39	13.08	3/8	3/8	11.2		4900		
M6KL-0123-CFV-072	RFT42C1E-PFV-102	24.00	16.39	13.08	3/8	3/8	11.2		4900		
M6KL-0123-CFV-072	RFT42C1E-PFV-102	24.00	16.39	13.08	3/8	3/8	11.2		4900		
M6KL-0123-CFV-072	RFT42C1E-PFV-102	24.00	16.39	13.08	3/8	3/8	11.2		4900		
M6KL-0123-CFV-072	RFT42C1E-PFV-102	24.00	16.39	13.08	3/8	3/8	11.2		4900		
M6KL-0123-CFV-072	RFT42C1E-PFV-102	24.00	16.39	13.08	3/8	3/8	11.2		4900		
M6GP-H103-CFV-272	RST80C1E-PFV-150	18.83	14.34	12.29	3/8	1/2	12.6		4670		8880
M6GP-H103-CFV-272	RST80C1E-PFV-150	18.83	14.34	12.29	3/8	1/2	12.6		4670		8880
M6BP-0096-CFV-177	RST70C1E-PFV-150	24.00	16.29	13.64	3/8	1/2	10.8		4100		8310
M6BP-0096-CFV-177	RST70C1E-PFV-150	24.00	16.29	13.64	3/8	1/2	10.8		4100		8310
M6BP-0092-CFA-177	RST64C1E-CFA-102	24.00	16.29	13.64	3/8	3/8	20.3		4050		7750
M6BP-0106-CFV-272	RST80C1E-PFV-150	24.00	16.42	13.64	3/8	1/2	12.8		4720		9120
M6BP-0106-CFV-177	RST80C1E-PFV-150	24.00	16.29	13.64	3/8	1/2	12.8		4720		9120
M6BP-0106-CFV-177	RST80C1E-PFV-150	24.00	16.29	13.64	3/8	1/2	12.8		4720		9120
M6BL-0123-CFV-072	RFT42C1E-PFV-102	24.00	16.29	13.64	3/8	3/8	11.2		4900		
M6BL-0123-CFV-177	RFT42C1E-PFV-102	24.00	16.29	13.64	3/8	3/8	11.2		4900		
M6WF-0106-CAV-020	RST64C1E-CAV-102	24.23	16.10	11.85	3/8	1/2	11.3				
M6WF-0125-CFV-020	RST70C1E-PFV-150	24.24	16.10	13.20	3/8	5/8	9.6				
M6WF-0125-TAC-020	RST70C1E-TA5-150	24.24	16.10	13.20	3/8	5/8	6.9				
M6WF-0125-TAC-020	RST70C1E-TA5-150	24.24	16.10	13.20	3/8	5/8	6.9				
M6WF-0126-CFV-020	RST80C1E-PFV-150	24.24	16.10	13.20	3/8	5/8	11.6				
M6WF-0126-CFV-020	RST80C1E-PFV-150	24.24	16.10	13.20	3/8	5/8	11.6				
M6WF-0126-TAC-020	RST80C1E-TA5-150	24.24	16.10	13.20	3/8	5/8	7.1				
M6WF-0126-TAC-020	RST80C1E-TA5-150	24.24	16.10	13.20	3/8	5/8	7.1				
M6WL-0105-CFV-020	RST80C1E-PFV-150	24.00	16.43	12.47	3/8	5/8	12.2				
M6WL-0105-TAC-020	RST80C1E-TA5-150	24.00	16.43	12.47	3/8	5/8	7.7				
M7KH-0086-CFA-177	RRT10K1E-PFA-150	24.00	16.39	13.08	3/8	1/2	19			7610	
M7KH-0086-CFV-072	RRT10K1E-PFV-150	24.00	16.39	13.08	3/8	5/8	11.2			7610	
M7KH-0086-CFV-179	RRT10K1E-PFV-150	24.00	16.27	13.08	1/4	5/8	11.2			7610	
M7KH-0086-CFV-177	RRT10K1E-PFV-150	24.00	16.39	13.08	3/8	1/2	11.2			7610	
M7KH-0086-CFV-272	RRT10K1E-PFV-150	16.39	24.00	13.08	3/8	5/8	11.2			7610	
Obsolete											
M7QH-H031-IAA-272	ARE35C5E-IAA-103	15.67	12.12	11.37	1/4	5/16	9.5				

Copeland to Copeland Cross Reference

Old Model	Compressor Model	Length	Width	Height	Liquid Conn.	Suction Conn.	MCA	Old Rated Capacities			
								LT_134A	LT_404A	MT_134A	MT_404A
M2CH-0068-IAA-121	RRT73C1E-IAA-102	11.66	21.00	11.75	1/4	3/8	15.5				5210
M2CH-0068-IAV-221	RRT73C1E-IAV-104						11.6				5210
M2CH-0074-CFV-140	RRT81C1E-PFV-150	17.83	13.23	11.91	1/4	5/8	9.3				6470
M2CH-0074-CFV-141	RRT81C1E-PFV-150	17.38	12.73	11.76	1/4	1/2	9.3				6470
M2CH-A054-IAA-144	RRT64C1E-IAA-104						15.5				4990
M2CH-H024-IAV-321	ARE25C4E-IAV-103						3.4				
M2CH-H047-CAA-121	ARE51C4E-CAA-103	19.80	11.00	9.60	1/4	3/8	14				3640
M2CH-H049-CAA-121	ARE51C4E-CAA-103	19.00	12.87	11.74	1/4	3/8	14				3690
M2CH-H049-CAA-122	ARE51C4E-CAA-103						14				3690
M2CL-0050-CFA-121	RFT18C1E-PFA-102						13	2390			
M2CL-A025-IAA-111	AFE10C3E-IAA-103	17.38	12.09	9.73	1/4	3/8	6.9	1070			
M2CL-A025-IAA-143	AFE10C3E-IAA-103	13.64	11.58	9.67	1/4	5/16	6.9	1070			
M2CL-A025-IAA-146	AFE10C3E-IAA-103	17.38	12.04	9.73	3/8	3/8	6.9	1070			
M2CL-A025-IAA-147	AFE10C3E-IAA-103						6.9	1070			
M2CL-A025-IAA-148	AFE10C3E-IAA-103						6.9	1070			
M2CL-A025-IAA-149	AFE10C3E-IAA-103						6.9	1070			
M2CL-A025-IAA-150	AFE10C3E-IAA-103						6.9	1070			
M2CL-B033-IAA-111	AFE12C3E-IAA-103	17.38	12.00	9.73	1/4	3/8	6.7	1240			
M2CL-B033-IAA-122	AFE12C3E-IAA-103	17.40	12.10	9.70	3/8	3/8	6.7	1240			
M2CL-B033-IAA-146	AFE12C3E-IAA-103	17.38	12.04	9.73	3/8	3/8	6.7	1240			
M2CL-B033-IAA-147	AFE12C3E-IAA-103						6.7	1240			
M2CL-B033-IAA-148	AFE12C3E-IAA-103						6.7	1240			
M2CL-B033-IAA-149	AFE12C3E-IAA-103						6.7	1240			
M2CL-B033-IAA-150	AFE12C3E-IAA-103						6.7	1240			
M2CL-H034-IAA-121	AFE12C4E-IAA-103	14.30	12.10	9.70	1/4	5/16	8.9				
M2CM-0054-IAA-123	RRT64C1E-IAA-104						14.6				4640
M2CM-0054-IAA-124	RRT64C1E-IAA-104						14.6				4640
M2EH-0024-SAA-102	ARE25C3E-SAA-103	10.52	16.00	14.25	1/4	5/16	6.3				1810
M2EH-0026-IAA-020	ARE27C3E-IAA-103	16.00	14.25	10.52	1/4	3/8	6.9				2080
M2EH-0026-IAA-021	ARE27C3E-IAA-103	16.00	14.25	10.52	1/4	3/8	6.9				2080
M2EH-0026-IAA-103	ARE27C3E-IAA-103	16.00	14.25	10.52	1/4	3/8	6.9				2080
M2EH-0026-IAA-111	ARE27C3E-IAA-103	16.00	14.25	10.52	1/4	3/8	6.9				2080
M2EH-0026-IAA-121	ARE27C3E-IAA-103	16.00	14.25	10.52	1/4	3/8	6.9				2080
M2EH-0070-CAA-121	RRT73C1E-CAA-102	24.00	17.00	13.60	1/4	3/8	15.8				5490
M2EH-0075-CFA-210	RRT81C1E-PFA-150	24.00	17.12	13.59	3/8	1/2	18.3				6430
M2EH-0075-CFA-212	RRT81C1E-PFA-150	24.00	17.12	13.58	3/8	5/8	18.3				6430
M2EH-0075-CFV-121	RRT81C1E-PFV-150	24.00	16.75	13.58	1/4	1/2	9.3				6430
M2EH-0075-CFV-140	RRT81C1E-PFV-150	24.00	17.11	13.58	3/8	3/8	9.3				6430
M2EH-0090-CFV-208	RRT10K1E-PFV-150	24.00	16.80	13.58	3/8	5/8	11.2				7610
M2EH-A033-IAA-121	ARE37C3E-IAA-103	10.52	14.25	16.00	1/4	3/8	9.9				2620
M2EH-A033-IAA-208	ARE37C3E-IAA-103	14.25	16.00	10.52	1/4	3/8	9.9				2620
M2EH-A033-IAA-212	ARE37C3E-IAA-103	16.00	14.30	10.60	1/4	3/8	9.9				2620
M2EH-A033-IAA-221	ARE37C3E-IAA-103	16.00	14.25	10.52	1/4	3/8	9.9				2620
M2EH-H047-CAA-212	ARE51C4E-CAA-103	16.00	15.10	11.80	1/4	5/16	14				
M2EL-0050-CFA-212	RFT18C1E-PFA-102	17.36	15.53	13.31	1/4	1/2	13	2360			
M2EL-B033-IAA-020	AFE12C3E-IAA-103	16.00	14.25	10.52	1/4	3/8	6.7	1240			
M2EM-0052-IAA-103	RRT64C1E-IAA-109	17.00	15.50	11.80	1/4	1/2	14.6				4540
M2EM-0052-IAA-144	RRT64C1E-IAA-104	16.90	15.60	11.80	3/8	1/2	14.6				4540
M2EM-0052-IAA-208	RRT64C1E-IAA-109	16.90	15.60	11.80	3/8	1/2	14.6				4540
M2EM-0052-IAA-212	RRT64C1E-IAA-109	16.90	15.60	11.80	1/4	1/2	14.6				4540
M2EM-0052-IAA-252	RRT64C1E-IAA-109	16.90	15.80	11.80	1/4	1/2	14.6				4540
M2EM-0052-IAV-144	RRT64C1E-IAV-104						8.6				4540
M2EM-0059-IAA-140	RRT64C1E-IAA-109	24.00	17.00	13.60	3/8	5/8	15.8				5130
M2EM-0059-IAV-102	RRT64C1E-IAV-104	24.00	17.00	13.60	3/8	5/8	9.2				5130
M2EM-0075-CFA-140	RRT10K1E-PFA-150	24.00	17.13	13.58	3/8	5/8	19				7160
M2EM-0075-CFA-212	RRT10K1E-PFA-150	24.00	16.80	13.58	3/8	5/8	19				7160
M2EM-0075-CFV-212	RRT10K1E-PFV-150	24.00	16.75	13.58	3/8	5/8	11.2				7160
M2EM-0075-CFV-215	RRT10K1E-PFV-150	24.00	16.75	13.58	3/8	1/2	11.2				7160
M2EM-0078-CFV-212	RRT10K1E-PFV-150	24.00	17.11	13.59	3/8	5/8	11.2				7460
M2EM-0078-CFV-260	RRT10K1E-PFV-150	24.89	17.11	13.70	3/8	5/8	11.2				7460
M2EM-A048-IAA-111	RRT62C1E-IAA-104	16.50	15.10	11.80	1/4	3/8	12.8				3740
M2EM-A048-IAA-121	RRT62C1E-IAA-104	16.60	15.50	11.80	1/4	3/8	12.8				3740

Copeland to Copeland Cross Reference

Old Model	Compressor Model	Length	Width	Height	Liquid Conn.	Suction Conn.	MCA	Old Rated Capacities			
								LT_134A	LT_404A	MT_134A	MT_404A
M2EM-A048-IAA-122	RRT62C1E-IAA-104	16.62	15.20	11.77	1/4	3/8	12.8				3740
M2EM-A048-IAA-140	RRT62C1E-IAA-104	16.50	15.10	11.80	1/4	3/8	12.8				3740
M2EM-A048-IAA-141	RRT62C1E-IAA-104	16.60	15.50	11.80	1/4	3/8	12.8				3740
M2EM-A048-IAA-144	RRT62C1E-IAA-104	16.60	15.50	11.80	1/4	3/8	12.8				3740
M2EM-A048-IAA-212	RRT62C1E-IAA-104	16.26	15.12	11.83	1/4	3/8	12.8				3740
M2EM-A048-IAA-215	RRT62C1E-IAA-104	16.10	15.10	11.80	1/4	3/8	12.8				3740
M2EM-A048-IAA-247	RRT62C1E-IAA-104	16.26	15.12	11.83	1/4	3/8	12.8				3740
M2EM-A048-IAV-103	RRT62C1E-IAV-104	16.00	15.43	11.77	1/4	3/8	6				3740
M2EM-A048-IAV-111	RRT62C1E-IAV-104						6				3740
M2EM-A048-IAV-208	RRT62C1E-IAV-104						6				3740
M2EM-A048-IAV-212	RRT62C1E-IAV-104	16.00	15.52	11.77	1/4	3/8	6				3740
M2EM-A049-IAA-221	RRT62C1E-IAA-104	16.20	15.20	12.60	1/4	3/8	12.8				
M2FF-0056-CFA-121	RFT18C1E-PFA-102	17.38	13.99	12.56	1/4	5/8	13.8	2580			5520
M2FF-0056-CFA-212	RFT18C1E-PFA-102	17.38	14.38	12.56	1/4	5/8	13.8	2580			5520
M2FF-0056-CFA-252	RFT18C1E-PFA-102	17.50	14.38	12.56	1/4	5/8	13.8	2580			5520
M2FF-E056-CFA-121	RFT18C1E-PFA-102	17.49	14.03	11.82	1/4	5/8	13.5	2580			5520
M2FF-E056-CFA-140	RFT18C1E-PFA-102	17.50	14.38	10.50	1/4	5/8	13.5	2580			5520
M2FF-E056-CFA-212	RFT18C1E-PFA-102	17.50	14.38	11.82	1/4	5/8	13.5	2580			5520
M2FF-E056-CFA-221	RFT18C1E-PFA-102						13.5	2580			5520
M2FH-0024-IAA-119	ARE25C3E-IAA-103	13.96	11.47	9.67	1/4	5/16	6.6				1810
M2FH-0024-SAA-102	ARE25C3E-SAA-103	13.80	11.05	9.67	1/4	5/16	6.3				1810
M2FH-0024-SAA-111	ARE25C3E-SAA-103						6.3				1810
M2FH-0024-SAA-140	ARE25C3E-SAA-103	13.82	11.20	9.67	3/8	3/8	6.3				1810
M2FH-0024-SAA-143	ARE25C3E-SAA-103	14.00	11.40	9.60	1/4	3/8	6.3				1810
M2FH-0025-IAA-018	ARE27C3E-IAA-103	13.67	11.48	9.60	1/4	5/16	6.9				1950
M2FH-0025-IAA-040	ARE27C3E-IAA-103	13.90	11.49	10.00	1/4	3/8	6.9				1950
M2FH-0025-IAA-121	ARE27C3E-IAA-103	21.90	11.50	9.60	1/4	3/8	6.9				1950
M2FH-0026-IAA-020	ARE27C3E-IAA-103	13.90	11.90	9.60	1/4	3/8	6.9				2080
M2FH-0026-IAA-072	ARE27C3E-IAA-103	14.50	12.00	11.40	1/4	3/8	6.9				2080
M2FH-0026-IAA-102	ARE27C3E-IAA-103	13.60	11.10	9.70	1/4	5/16	6.9				2080
M2FH-0026-IAA-103	ARE27C3E-IAA-103	13.80	11.50	9.70	1/4	3/8	6.9				2080
M2FH-0026-IAA-111	ARE27C3E-IAA-103	13.80	11.30	9.70	1/4	3/8	6.9				2080
M2FH-0026-IAA-122	ARE27C3E-IAA-103	13.80	11.80	9.70	1/4	3/8	6.9				2080
M2FH-0026-IAA-127	ARE27C3E-IAA-103	13.82	11.10	9.67	1/4	5/16	6.9				2080
M2FH-0026-IAA-128	ARE27C3E-IAA-103	13.82	11.10	9.67	1/4	5/16	6.9				2080
M2FH-0026-IAA-129	ARE27C3E-IAA-103	13.82	11.30	9.67	1/4	3/8	6.9				2080
M2FH-0026-IAA-130	ARE27C3E-IAA-103	13.80	11.30	9.70	1/4	3/8	6.9				2080
M2FH-0026-IAA-131	ARE27C3E-IAA-103	13.80	11.40	9.70	3/8	3/8	6.9				2080
M2FH-0026-IAA-141	ARE27C3E-IAA-103	13.80	11.21	9.60	1/4	5/16	6.9				2080
M2FH-0026-IAA-144	ARE27C3E-IAA-103	13.85	11.86	9.67	1/4	5/16	6.9				2080
M2FH-0033-IAA-121	ARE37C3E-IAA-103	13.90	11.40	9.70	3/8	3/8	9.7				2370
M2FH-0033-IAA-140	ARE37C3E-IAA-103	13.90	11.40	9.60	1/4	3/8	9.7				2370
M2FH-0033-IAV-140	ARE37C3E-IAV-103	13.80	11.80	9.70	1/4	5/16	4.8				2370
M2FH-0033-IAV-141	ARE37C3E-IAV-103						4.8				2370
M2FH-0039-IAA-0H2	ARE37C3E-IAA-103	24.50	20.96	18.60	1/4	1/2	10.6				2980
M2FH-0040-IAA-143	ARE41C3E-IAA-103	16.30	13.10	9.73	1/4	3/8	10.2				2870
M2FH-0040-IAA-160	ARE41C3E-IAA-103	16.60	13.40	9.60	3/8	3/8	10.2				2870
M2FH-0040-IAA-212	ARE41C3E-IAA-103	16.30	12.50	9.73	1/4	3/8	10.2				2870
M2FH-0040-IAV-160	ARE41C3E-IAV-103	16.80	12.80	9.90	3/8	3/8	5.5				2870
M2FH-0040-IAV-212	ARE41C3E-IAV-103	16.52	12.52	9.73	1/4	3/8	5.5				2870
M2FH-0050-IAA-127	ART62C1E-IAA-103	16.20	12.10	11.70	1/4	3/8	13.6				4230
M2FH-0050-IAA-128	ART62C1E-IAA-103	16.20	12.70	11.80	1/4	3/8	13.6				4230
M2FH-0074-CFA-140	RRT81C1E-PFA-150	17.50	13.99	11.82	1/4	1/2	18				6370
M2FH-0074-CFA-141	RRT81C1E-PFA-150	17.50	14.39	11.82	3/8	1/2	18				6370
M2FH-0074-CFA-144	RRT81C1E-PFA-150	22.03	15.25	16.63	1/4	5/8	18				6370
M2FH-0074-CFA-145	RRT81C1E-PFA-150	17.38	13.99	11.82	1/4	1/2	18				6370
M2FH-0074-CFA-212	RRT81C1E-PFA-150	17.50	14.39	11.92	1/4	5/8	18				6370
M2FH-0074-CFA-272	RRT81C1E-PFA-150	17.50	14.39	12.50	1/4	5/8	18				6370
M2FH-0074-CFV-144	RRT81C1E-PFV-150	19.77	15.25	16.52	1/4	5/8	9.1				6370
M2FH-0074-CFV-145	RRT81C1E-PFV-150	17.38	13.99	11.82	1/4	1/2	9.1				6370
M2FH-0074-CFV-160	RRT81C1E-PFV-150	17.38	14.38	11.96	3/8	5/8	9.1				6370
M2FH-0074-CFV-212	RRT81C1E-PFV-150	17.38	14.39	11.82	1/4	5/8	9.1				6370

New Model	New Compressor Model	New Length	New Width	New Height	New Liquid	New Suction	New MCA	New Rated Capacities			
								LT_134a	LT_404A	MT_134a	MT_404A
M7EH-H044-IAA-103	RRT62C1E-IAA-104	16.67	15.36	11.75	1/4	1/2	12.8				3890
M7EH-H044-IAA-103	RRT62C1E-IAA-104	16.67	15.36	11.75	1/4	1/2	12.8				3890
M7EH-H044-IAA-103	RRT62C1E-IAA-104	16.67	15.36	11.75	1/4	1/2	12.8				3890
M7EH-H044-IAA-111	RRT62C1E-IAA-104	16.67	15.36	11.75	1/4	1/2	12.8				3890
M7EH-H044-IAA-103	RRT62C1E-IAA-104	16.62	15.27	11.75	1/4	3/8	12.8				3890
M7EH-H044-IAA-111	RRT62C1E-IAA-104	16.67	15.36	11.75	1/4	1/2	12.8				3890
M7EH-H044-IAA-212	RRT62C1E-IAA-104	16.25	15.55	11.86	1/4	3/8	12.8				3890
M7EH-H044-IAV-103	RRT62C1E-IAV-104	16.62	15.27	11.75	1/4	3/8	6				3890
M7EH-H044-IAV-111	RRT62C1E-IAV-104	16.67	15.36	11.75	1/4	1/2	6				3890
M7EH-H044-IAV-111	RRT62C1E-IAV-104	16.67	15.36	11.75	1/4	1/2	6				3890
M7EH-H044-IAA-103	RRT62C1E-IAA-104	16.62	15.27	11.75	1/4	3/8	12.8				3890
M7GP-H066-CFA-177	RFT18C1E-PFA-102	18.82	14.34	12.29	3/8		13.8	2650			5710
M7GP-H066-CFA-177	RFT18C1E-PFA-102	18.82	14.34	12.29	3/8		13.8	2650			5710
M7GP-H066-CFA-272	RFT18C1E-PFA-102	18.82	14.34	12.29	3/8	1/2	13.8	2650			5710
M7GP-H066-CFA-177	RFT18C1E-PFA-102	18.82	14.34	12.29	3/8		13.8	2650			5710
M7GP-H066-CFA-272	RFT18C1E-PFA-102	18.82	14.34	12.29	3/8	1/2	13.8	2650			5710
M7GP-H066-CFA-272	RFT18C1E-PFA-102	18.82	14.34	12.29	3/8	1/2	13.8	2650			5710
M7GP-H066-CFA-177	RFT18C1E-PFA-102	18.82	14.34	12.29	3/8		13.8	2650			5710
M7JH-0021-IAA-177	ARE29C4E-IAA-103	14.10	11.45	11.37	1/4	5/16	5.5				2090
M7JH-0018-IAA-078	ARE25C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	6.8				1820
M7JH-0018-IAA-179	ARE25C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	6.8				1820
M7JH-0018-IAA-179	ARE25C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	6.8				1820
M7JH-0018-IAA-179	ARE25C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	6.8				1820
M7JH-0020-IAA-078	ARE25C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	6.8				1970
M7JH-0020-IAA-078	ARE25C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	6.8				1970
M7JH-0020-IAA-179	ARE25C4E-IAA-103	13.91	11.46	9.67	1/4		6.8				1970
M7JH-0018-IAA-078	ARE25C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	6.8				1820
M7JH-0018-IAA-078	ARE25C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	6.8				1820
M7JH-0018-IAA-179	ARE25C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	6.8				1820
M7JH-0018-IAA-177	ARE25C4E-IAA-103	14.10	11.45	11.37	1/4	5/16	6.8				1820
M7JH-0018-IAA-179	ARE25C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	6.8				1820
M7JH-0018-IAA-179	ARE25C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	6.8				1820
M7JH-0018-IAA-179	ARE25C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	6.8				1820
M7JH-0018-IAA-179	ARE25C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	6.8				1820
M7JH-0018-IAA-179	ARE25C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	6.8				1820
M7JH-0018-IAA-179	ARE25C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	6.8				1820
M7JH-0018-IAA-179	ARE25C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	6.8				1820
M7JH-0018-IAA-179	ARE25C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	6.8				1820
M7JH-0018-IAA-179	ARE25C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	6.8				1820
M7JH-0018-IAA-179	ARE25C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	6.8				1820
M7JH-0026-IAA-179	ARE35C5E-IAA-103	13.94	11.46	9.61	1/4	3/8	9.3				2410
M7JH-0026-IAA-179	ARE35C5E-IAA-103	13.94	11.46	9.61	1/4	3/8	9.3				2410
M7JH-H038-IAV-179	ARE48C5E-IAV-103	13.96	11.46	9.67	1/4		6.8				3450
M7JH-H038-IAV-179	ARE48C5E-IAV-103	13.96	11.46	9.67	1/4		6.8				3450
M7ZH-H032-IAA-272	ARE35C5E-IAA-103	16.58	13.09	11.70	1/4	3/8	9.5				
M7JH-H029-IAA-177	ARE35C5E-IAA-103	14.39	11.57	11.37	1/4	3/8	9.3				2640
M7JH-H029-IAA-177	ARE35C5E-IAA-103	14.39	11.57	11.37	1/4	3/8	9.3				2640
M7JH-H029-IAA-177	ARE35C5E-IAA-103	14.39	11.57	11.37	1/4	3/8	9.3				2640
M7ZH-0041-IAV-078	ARE48C5E-IAV-103	16.58	13.09	11.71	1/4	5/16	6.9				3600
M7ZH-0041-IAV-177	ARE48C5E-IAV-103	16.58	12.68	11.73	1/4	5/16	6.9				3600
M7ZH-0045-IAA-177	ARE54C5E-IAA-103	16.58	12.68	11.73	1/4	5/16	12.5				4010
M7ZH-0045-IAA-177	ARE54C5E-IAA-103	16.58	12.68	11.73	1/4	5/16	12.5				4010
M7ZH-H067-CFA-179	RRT81C1E-PFA-150	16.46	14.16	12.18	1/4		17.1				6070
M7ZH-H067-CFA-179	RRT81C1E-PFA-150	16.46	14.16	12.18	1/4		17.1				6070
M7ZH-H067-CFA-179	RRT81C1E-PFA-150	16.46	14.16	12.18	1/4		17.1				6070
M7ZH-H067-CFA-272	RRT81C1E-PFA-150	17.31	13.82	12.29	3/8	3/8	17.1				6070
M7ZH-H067-CFA-272	RRT81C1E-PFA-150	17.31	13.82	12.29	3/8	3/8	17.1				6070
M7ZH-H067-CFA-272	RRT81C1E-PFA-150	17.31	13.82	12.29	3/8	3/8	17.1				6070
M7ZH-H067-CFV-179	RRT81C1E-PFV-150	16.46	14.16	12.18	1/4		8.7				6070
M7ZH-H067-CFV-179	RRT81C1E-PFV-150	16.46	14.16	12.18	1/4		8.7				6070
M7ZH-H067-CFV-179	RRT81C1E-PFV-150	16.46	14.16	12.18	1/4		8.7				6070
M7ZH-H067-CFV-272	RRT81C1E-PFV-150	17.31	13.82	12.29	3/8	5/8	8.7				6070

Copeland to Copeland Cross Reference

Old Model	Compressor Model	Length	Width	Height	Liquid Conn.	Suction Conn.	MCA	Old Rated Capacities			
								LT_134A	LT_404A	MT_134A	MT_404A
M2FH-0074-CFV-272	RRT81C1E-PFV-150	17.50	14.39	12.50	1/4	5/8	9.1				6370
M2FH-0075-CFA-115	RRT81C1E-PFA-150	24.00	16.66	13.07	1/4	1/2	18.3				6420
M2FH-0075-CFA-212	RRT81C1E-PFA-150	24.00	17.33	13.07	3/8	5/8	18.3				6420
M2FH-0075-CFV-020	RRT81C1E-PFV-150	24.00	17.49	13.07	3/8	5/8	9.3				6420
M2FH-0075-CFV-115	RRT81C1E-PFV-150	24.00	16.66	13.07	1/4	1/2	9.3				6420
M2FH-0075-CFV-212	RRT81C1E-PFV-150	24.00	17.49	13.07	3/8	5/8	9.3				6420
M2FH-A025-IAA-140	ARE27C3E-IAA-103	13.90	11.48	9.67	1/4	5/16	7.1				2060
M2FH-A033-IAA-102	ARE37C3E-IAA-103	13.80	11.10	9.70	1/4	5/16	9.9				2620
M2FH-A033-IAA-103	ARE37C3E-IAA-103	13.80	11.50	9.70	1/4	3/8	9.9				2620
M2FH-A033-IAA-111	ARE37C3E-IAA-103	13.80	11.30	9.70	1/4	3/8	9.9				2620
M2FH-A033-IAA-122	ARE37C3E-IAA-103	13.80	11.40	9.70	1/4	3/8	9.9				2620
M2FH-A033-IAA-123	ARE37C3E-IAA-103	13.60	11.30	9.70	3/8	3/8	9.9				2620
M2FH-A033-IAA-126	ARE37C3E-IAA-103	13.85	12.05	9.67	1/4	3/8	9.9				2620
M2FH-A033-IAA-127	ARE37C3E-IAA-103	13.80	11.30	9.70	1/4	3/8	9.9				2620
M2FH-A033-IAA-128	ARE37C3E-IAA-103	14.00	11.30	9.60	1/4	5/16	9.9				2620
M2FH-A033-IAA-129	ARE37C3E-IAA-103	13.90	11.30	9.70	1/4	3/8	9.9				2620
M2FH-A033-IAA-140	ARE37C3E-IAA-103	13.82	11.48	9.67	1/4	5/16	9.9				2620
M2FH-A033-IAA-141	ARE37C3E-IAA-103	13.80	11.30	9.70	1/4	5/16	9.9				2620
M2FH-A033-IAA-144	ARE37C3E-IAA-103	13.85	11.94	9.67	1/4	5/16	9.9				2620
M2FH-A033-IAA-208	ARE37C3E-IAA-103	13.90	11.70	9.60	1/4	3/8	9.9				2620
M2FH-A033-IAA-212	ARE37C3E-IAA-103	13.90	11.90	9.60	1/4	3/8	9.9				2620
M2FH-A033-IAA-221	ARE37C3E-IAA-103	13.91	11.50	9.60	1/4	5/16	9.9				2620
M2FH-A033-IAA-222	ARE37C3E-IAA-103	13.80	11.80	9.70	1/4	3/8	9.9				2620
M2FH-A033-IAA-272	ARE37C3E-IAA-103	14.50	12.00	11.40	1/4	3/8	9.9				2620
M2FH-A033-IAA-340	ARE37C3E-IAA-103	13.80	12.80	9.70	1/4	3/8	9				2620
M2FH-A033-IAV-103	ARE37C3E-IAV-103	13.80	11.80	9.70	1/4	3/8	4.9				2620
M2FH-A033-IAV-111	ARE37C3E-IAV-103	13.80	11.80	9.70	1/4	3/8	4.9				2620
M2FH-A033-IAV-121	ARE37C3E-IAV-103	14.00	11.30	9.60	1/4	5/16	4.9				2620
M2FH-A033-IAV-126	ARE37C3E-IAV-103	13.85	12.04	9.67	1/4	3/8	4.9				2620
M2FH-A033-IAV-141	ARE37C3E-IAV-103	13.80	11.80	9.70	1/4	5/16	4.9				2620
M2FH-A033-IAV-208	ARE37C3E-IAV-103	13.80	11.80	9.70	1/4	3/8	4.9				2620
M2FH-A033-IAV-212	ARE37C3E-IAV-103	13.80	11.80	9.70	1/4	3/8	4.9				2620
M2FH-A033-IAV-272	ARE37C3E-IAV-103	14.50	12.00	11.40	1/4	3/8	4.9				2620
M2FH-A050-IAA-103	RRT62C1E-IAA-104	17.30	14.10	11.70	1/4	3/8	12.8				4060
M2FH-A050-IAA-111	RRT62C1E-IAA-104	17.50	13.70	11.70	1/4	3/8	12.8				4060
M2FH-A050-IAA-121	RRT62C1E-IAA-104	17.30	14.10	11.70	1/4	3/8	12.8				4060
M2FH-A050-IAA-122	RRT62C1E-IAA-104	17.50	13.80	11.70	3/8	1/2	12.8				4060
M2FH-A050-IAA-126	RRT62C1E-IAA-104	17.50	13.90	11.70	1/4	3/8	12.8				4060
M2FH-A050-IAA-140	RRT62C1E-IAA-104	16.60	13.80	11.70	1/4	3/8	12.8				4060
M2FH-A050-IAA-144	RRT62C1E-IAA-104	16.60	13.80	11.70	1/4	3/8	12.8				4060
M2FH-A050-IAA-145	RRT62C1E-IAA-104	19.00	14.10	15.00	1/4	5/8	12.8				4060
M2FH-A050-IAA-176	RRT62C1E-IAA-104	16.64	13.80	11.64	1/4	3/8	12.8				4060
M2FH-A050-IAA-212	RRT62C1E-IAA-104	16.60	13.80	11.70	1/4	3/8	12.8				4060
M2FH-A050-IAA-272	RRT62C1E-IAA-104	16.60	13.80	11.70	1/4	3/8	12.8				4060
M2FH-A050-IAV-103	RRT62C1E-IAV-104	17.10	13.70	11.80	1/4	3/8	6				4060
M2FH-A050-IAV-144	RRT62C1E-IAV-104	18.90	14.80	14.90	1/4	5/8	6				4060
M2FH-A050-IAV-145	RRT62C1E-IAV-104	17.30	13.20	11.80	1/4	3/8	6				4060
M2FH-A050-IAV-212	RRT62C1E-IAV-104	16.60	13.70	11.70	1/4	3/8	6				4060
M2FH-A056-IAA-0H2	RRT64C1E-IAA-109	24.50	21.10	18.60	1/4	1/2	15.4				5100
M2FH-A056-IAA-103	RRT64C1E-IAA-104	17.80	14.20	11.80	1/4	3/8	15.5				5100
M2FH-A056-IAA-111	RRT64C1E-IAA-104	17.80	14.20	11.80	1/4	3/8	15.5				5100
M2FH-A056-IAA-121	RRT64C1E-IAA-104						15.5				5100
M2FH-A056-IAA-122	RRT64C1E-IAA-104						15.5				5100
M2FH-A056-IAA-123	RRT64C1E-IAA-104						15.5				5100
M2FH-A056-IAA-140	RRT64C1E-IAA-104	17.80	14.20	11.80	1/4	3/8	15.5				5100
M2FH-A056-IAA-212	RRT64C1E-IAA-104	17.80	14.20	11.80	1/4	3/8	15.5				5100
M2FH-A056-IAA-272	RRT64C1E-IAA-104	17.80	14.50	11.80	1/4	3/8	15.5				5100
M2FH-A056-IAV-103	RRT64C1E-IAV-104	17.80	14.20	11.80	1/4	3/8	9				5100
M2FH-A056-IAV-140	RRT64C1E-IAV-104	17.80	14.20	11.80	1/4	3/8	9				5100
M2FH-A056-IAV-212	RRT64C1E-IAV-104	17.80	14.20	11.80	1/4	3/8	9				5100
M2FH-A056-IAV-272	RRT64C1E-IAV-104	17.50	14.50	11.80	1/4	3/8	9				5100
M2FH-B051-IAA-140	RRT64C1E-IAA-104	16.60	14.00	11.80	1/4	3/8	14.9				4670

New Model	New Compressor Model	New Length	New Width	New Height	New Liquid	New Suction	New MCA	New Rated Capacities			
								LT_134a	LT_404A	MT_134a	MT_404A
M7ZH-H067-CFV-272	RRT81C1E-PFV-150	17.31	13.82	12.29	3/8	5/8	8.7				6070
M7KH-0075-CFA-179	RRT81C1E-PFA-150	24.00	16.27	13.08	1/4	5/8	18.3				6720
M7KH-0075-CFA-179	RRT81C1E-PFA-150	24.00	16.27	13.08	1/4	5/8	18.3				6720
M7KH-0075-CFV-072	RRT81C1E-PFV-150	24.00	16.39	13.08	3/8	5/8	9.3				6720
M7KH-0075-CFV-179	RRT81C1E-PFV-150	24.00	16.27	13.08	1/4	5/8	9.3				6720
M7KH-0075-CFV-177	RRT81C1E-PFV-150	24.00	16.39	13.08	3/8	1/2	9.3				6720
M7JH-0021-IAA-179	ARE29C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.5				2090
M7JH-H029-IAA-179	ARE35C5E-IAA-103	13.96	11.56	9.67	1/4		9.3				2640
M7JH-H029-IAA-177	ARE35C5E-IAA-103	14.39	11.57	11.37	1/4	3/8	9.3				2640
M7JH-H029-IAA-179	ARE35C5E-IAA-103	13.96	11.56	9.67	1/4		9.3				2640
M7JH-H029-IAA-179	ARE35C5E-IAA-103	13.96	11.56	9.67	1/4		9.3				2640
M7JH-H029-IAA-179	ARE35C5E-IAA-103	13.96	11.56	9.67	1/4		9.3				2640
M7JH-H029-IAA-177	ARE35C5E-IAA-103	14.39	11.57	11.37	1/4	3/8	9.3				2640
M7JH-H029-IAA-179	ARE35C5E-IAA-103	13.96	11.56	9.67	1/4		9.3				2640
M7JH-H029-IAA-179	ARE35C5E-IAA-103	13.96	11.56	9.67	1/4		9.3				2640
M7JH-H029-IAA-179	ARE35C5E-IAA-103	13.96	11.56	9.67	1/4		9.3				2640
M7JH-H029-IAA-179	ARE35C5E-IAA-103	13.96	11.56	9.67	1/4		9.3				2640
M7JH-H029-IAA-179	ARE35C5E-IAA-103	13.96	11.56	9.67	1/4		9.3				2640
M7JH-H029-IAA-179	ARE35C5E-IAA-103	13.96	11.56	9.67	1/4		9.3				2640
M7JH-H029-IAA-179	ARE35C5E-IAA-103	13.96	11.56	9.67	1/4		9.3				2640
M7JH-H029-IAA-179	ARE35C5E-IAA-103	13.96	11.56	9.67	1/4		9.3				2640
M7JH-H029-IAA-179	ARE35C5E-IAA-103	13.96	11.56	9.67	1/4		9.3				2640
M7JH-H029-IAA-179	ARE35C5E-IAA-103	13.96	11.56	9.67	1/4		9.3				2640
M7JH-H029-IAA-177	ARE35C5E-IAA-103	14.39	11.57	11.37	1/4	3/8	9.3				2640
M7JH-H029-IAA-272	ARE35C5E-IAA-103	14.41	12.12	11.37	1/4	3/8	9.3				2640
M7JH-H029-IAA-272	ARE35C5E-IAA-103	14.41	12.12	11.37	1/4	3/8	9.3				2640
M7JH-H029-IAA-177	ARE35C5E-IAA-103	14.39	11.57	11.37	1/4	3/8	9.3				2640
M7JH-H029-IAA-177	ARE35C5E-IAA-103	14.39	11.57	11.37	1/4	3/8	9.3				2640
M7JH-H038-IAV-177	ARE48C5E-IAV-103	14.39	11.45	11.37	1/4	3/8	6.8				3450
M7JH-H038-IAV-179	ARE48C5E-IAV-103	13.96	11.46	9.67	1/4		6.8				3450
M7JH-H038-IAV-179	ARE48C5E-IAV-103	13.96	11.46	9.67	1/4		6.8				3450
M7JH-H038-IAV-177	ARE48C5E-IAV-103	14.39	11.45	11.37	1/4	3/8	6.8				3450
M7JH-H038-IAV-179	ARE48C5E-IAV-103	13.96	11.46	9.67	1/4		6.8				3450
M7JH-H038-IAV-078	ARE48C5E-IAV-103	14.41	12.12	11.37	1/4	3/8	6.8				3450
M7JH-H038-IAV-177	ARE48C5E-IAV-103	14.39	11.45	11.37	1/4	3/8	6.8				3450
M7JH-H038-IAV-177	ARE48C5E-IAV-103	14.39	11.45	11.37	1/4	3/8	6.8				3450
M7ZH-H046-IAA-177	RRT62C1E-IAA-104	17.45	13.46	11.71	3/8		12.8				4210
M7ZH-H046-IAA-179	RRT62C1E-IAA-104	16.60	14.09	11.71	1/4		12.8				4210
M7ZH-H046-IAA-177	RRT62C1E-IAA-104	17.45	13.46	11.71	3/8		12.8				4210
M7ZH-H046-IAA-179	RRT62C1E-IAA-104	16.60	14.09	11.71	1/4		12.8				4210
M7ZH-H046-IAA-179	RRT62C1E-IAA-104	16.60	14.09	11.71	1/4		12.8				4210
M7ZH-H046-IAA-177	RRT62C1E-IAA-104	17.45	13.46	11.71	3/8		12.8				4210
M7ZH-H046-IAA-179	RRT62C1E-IAA-104	16.60	14.09	11.71	1/4		12.8				4210
M7ZH-H046-IAA-179	RRT62C1E-IAA-104	16.60	14.09	11.71	1/4		12.8				4210
M7ZH-H046-IAA-272	RRT62C1E-IAA-104	17.45	13.57	11.71	3/8	3/8	12.8				4210
M7ZH-H046-IAA-272	RRT62C1E-IAA-104	17.45	13.57	11.71	3/8	3/8	12.8				4210
M7ZH-H046-IAA-272	RRT62C1E-IAA-104	17.45	13.57	11.71	3/8	3/8	12.8				4210
M7ZH-H046-IAV-177	RRT62C1E-IAV-104	17.45	13.46	11.71	3/8		6				4210
M7ZH-H046-IAV-179	RRT62C1E-IAV-104	16.60	14.09	11.71	1/4		6				4210
M7ZH-H046-IAV-179	RRT62C1E-IAV-104	16.60	14.09	11.71	1/4		6				4210
M7ZH-H046-IAV-177	RRT62C1E-IAV-104	17.45	13.46	11.71	3/8		6				4210
M7GH-H057-CAA-272	RRT64C1E-CAA-104	18.88	14.34	11.83	3/8	5/16	15.5	2190			5060
M7GH-H057-CAA-177	RRT64C1E-CAA-104	18.86	14.34	11.79	3/8		15.5	2190			5060
M7GH-H057-CAA-179	RRT64C1E-CAA-104	18.10	14.34	11.79	1/4		15.5	2190			5060
M7GH-H057-CAA-179	RRT64C1E-CAA-104	18.10	14.34	11.79	1/4		15.5	2190			5060
M7GH-H057-CAA-179	RRT64C1E-CAA-104	18.10	14.34	11.79	1/4		15.5	2190			5060
M7GH-H057-CAA-177	RRT64C1E-CAA-104	18.86	14.34	11.79	3/8		15.5	2190			5060
M7GH-H057-CAA-272	RRT64C1E-CAA-104	18.88	14.34	11.83	3/8	5/16	15.5	2190			5060
M7GH-H057-CAA-272	RRT64C1E-CAA-104	18.88	14.34	11.83	3/8	5/16	15.5	2190			5060
M7ZH-H055-CAV-177	RRT64C1E-CAV-104	17.36	13.45	11.75	3/8		14.6				4930
M7ZH-H055-CAV-177	RRT64C1E-CAV-104	17.36	13.45	11.75	3/8		14.6				4930
M7ZH-H055-CAV-177	RRT64C1E-CAV-104	17.36	13.45	11.75	3/8		14.6				4930
M7ZH-H055-CAV-177	RRT64C1E-CAV-104	17.36	13.45	11.75	3/8		14.6				4930
M7ZH-H055-CAV-177	RRT64C1E-CAV-104	16.60	14.11	11.71	1/4		14.6				4930

Copeland to Copeland Cross Reference

Old Model	Compressor Model	Length	Width	Height	Liquid Conn.	Suction Conn.	MCA	Old Rated Capacities			
								LT_134A	LT_404A	MT_134A	MT_404A
M2FH-E020-IAA-212	ARE17C4E-IAA-103						5.9				
M2FH-E026-IAA-020	ARE27C3E-IAA-103	13.95	11.81	9.67	1/4	3/8	6.8				
M2FH-E033-IAA-122	ARE37C3E-IAA-103	13.94	11.47	9.67	1/4	3/8	9.6				
M2FH-E033-IAA-212	ARE37C3E-IAA-103	13.95	11.81	9.67	1/4	3/8	9.6				
M2FH-E049-CAA-212	ARE51C4E-CAA-103	16.14	13.13	11.73	1/4	3/8	13.7				
M2FH-E050-IAA-121	RRT62C1E-IAA-104	17.45	14.07	11.70	1/4	3/8	12.5			4160	
M2FH-E050-IAA-122	RRT62C1E-IAA-104						12.5			4160	
M2FH-E056-IAA-140	RRT64C1E-IAA-104	17.76	14.46	11.82	1/4	3/8	15.2			5080	
M2FH-E056-IAA-212	RRT64C1E-IAA-104	17.38	14.46	11.82	1/4	3/8	15.2			5080	
M2FH-E056-IAA-221	RRT64C1E-IAA-104						15.2			5080	
M2FH-E074-CFA-212	RRT81C1E-PFA-150	17.50	14.38	11.82	1/4	5/8	17.7			6370	
M2FH-E074-CFA-221	RRT81C1E-PFA-150						17.7			6370	
M2FH-H017-IAA-102	ARE13C4E-IAA-103						6			1170	
M2FH-H017-IAA-103	ARE13C4E-IAA-103	13.94	11.47	9.67	1/4	3/8	6			1170	
M2FH-H017-IAA-111	ARE13C4E-IAA-103						6			1170	
M2FH-H020-IAA-102	ARE17C4E-IAA-103						6			1440	
M2FH-H020-IAA-111	ARE17C4E-IAA-103						6			1440	
M2FH-H020-IAA-121	ARE17C4E-IAA-103	13.68	11.54	9.63	1/4	3/8	6			1440	
M2FH-H020-IAA-126	ARE17C4E-IAA-103	13.98	11.42	9.62	1/4	3/8	6			1440	
M2FH-H020-IAA-176	ARE17C4E-IAA-103	14.44	12.35	9.67	1/4	3/8	6			1440	
M2FH-H040-IAA-176	ARE40C4E-IAA-103	16.55	12.40	9.84	1/4	3/8	9.6			2860	
M2FH-H040-IAA-272	ARE40C4E-IAA-103	17.00	13.40	9.70	1/4	3/8	9.6			2860	
M2FH-H048-CAA-121	ARE51C4E-CAA-103	16.20	12.70	11.70	1/4	3/8	14.8			3780	
M2FH-H049-CAA-103	ARE51C4E-CAA-103	16.20	12.90	11.70	1/4	3/8	14			3690	
M2FH-H049-CAA-111	ARE51C4E-CAA-103				1/4	3/8	14			3690	
M2FH-H049-CAA-141	ARE51C4E-CAA-103	16.00	12.70	11.70	1/4	5/16	14			3690	
M2FH-H049-CAA-143	ARE51C4E-CAA-103	16.00	12.90	11.70	1/4	5/16	14			3690	
M2FH-H049-CAA-212	ARE51C4E-CAA-103	16.18	13.08	11.73	1/4	3/8	14			3690	
M2FH-H049-CAA-214	ARE51C4E-CAA-103	16.20	12.70	11.80	1/4	5/16	14			3690	
M2FH-H049-CAA-272	ARE51C4E-CAA-103	16.30	12.90	11.80	1/4	3/8	14			3690	
M2FH-H049-IAV-121	ARE51C4E-IAV-103	16.20	13.10	11.70	1/4	5/16	6.7			3690	
M2FH-H049-IAV-141	ARE51C4E-IAV-103	16.20	12.70	11.70	1/4	5/16	6.7			3690	
M2FH-H049-IAV-212	ARE51C4E-IAV-103	16.18	13.08	11.74	1/4	3/8	6.7			3690	
M2FH-H049-IAV-214	ARE51C4E-IAV-103	16.20	13.10	11.70	1/4	5/16	6.7			3690	
M2FH-H052-CAA-212	ARE51C4E-CAA-103	16.20	13.10	11.70	1/4	3/8	14			3810	
M2FL-0024-IAA-140	AFE07C3E-IAA-103	13.80	11.30	9.70	1/4	3/8	6.2	860			
M2FL-0050-CFA-111	RFT18C1E-PFA-102	16.13	12.68	12.50	1/4	1/2	13	2390			
M2FL-0050-CFA-116	RFT18C1E-PFA-102	16.13	12.68	12.50	1/4	1/2	13	2390			
M2FL-0050-CFA-117	RFT18C1E-PFA-102	16.13	12.50	12.56	3/8	1/2	13	2390			
M2FL-0050-CFA-119	RFT18C1E-PFA-102	16.13	13.08	12.50	1/4	1/2	13	2390			
M2FL-0050-CFA-124	RFT18C1E-PFA-102	16.13	13.08	12.50	1/4	1/2	13	2390			
M2FL-0050-CFA-212	RFT18C1E-PFA-102	16.00	13.08	12.50	1/4	1/2	13	2390			
M2FL-A025-IAA-020	AFE10C3E-IAA-103	13.80	11.70	9.60	1/4	3/8	6.9	1070			
M2FL-A025-IAA-072	AFE10C3E-IAA-103	14.49	12.91	9.64	1/4	3/8	6.9	1070			
M2FL-A025-IAA-103	AFE10C3E-IAA-103	13.80	11.60	9.70	1/4	3/8	6.9	1070			
M2FL-A025-IAA-111	AFE10C3E-IAA-103	13.82	11.30	9.70	1/4	3/8	6.9	1070			
M2FL-A025-IAA-122	AFE10C3E-IAA-103	13.60	11.30	9.70	1/4	3/8	6.9	1070			
M2FL-A025-IAA-123	AFE10C3E-IAA-103	13.80	11.30	9.60	1/4	3/8	6.9	1070			
M2FL-B033-IAA-020	AFE12C3E-IAA-103	13.90	11.77	9.67	1/4	3/8	6.7	1240			
M2FL-B033-IAA-103	AFE12C3E-IAA-103	13.82	11.66	9.70	1/4	3/8	6.7	1240			
M2FL-B033-IAA-111	AFE12C3E-IAA-103	13.82	11.30	9.70	1/4	3/8	6.7	1240			
M2FL-B033-IAA-122	AFE12C3E-IAA-103	13.60	11.30	9.70	1/4	3/8	6.7	1240			
M2FL-B033-IAA-123	AFE12C3E-IAA-103						6.7	1240			
M2FL-B033-IAA-140	AFE12C3E-IAA-103	13.80	11.30	9.70	1/4	3/8	6.7	1240			
M2FL-H023-IAA-111	AFE05C4E-IAA-103						5.4	740			
M2FL-H023-IAA-140	AFE05C4E-IAA-103						5.4	740			
M2FL-H023-IAA-141	AFE05C4E-IAA-103						5.4	740			
M2FL-H036-IAA-122	AFE12C4E-IAA-103	16.00	12.70	11.70	3/8	3/8	9				
M2FL-H040-IAA-103	AFE12C4E-IAA-103	16.50	12.40	9.70	1/4	3/8	9				
M2FL-H040-IAA-111	AFE12C4E-IAA-103	16.50	12.20	9.70	1/4	3/8	9				
M2FL-H040-IAA-122	AFE12C4E-IAA-103	16.60	12.20	9.60	1/4	3/8	9				
M2FL-H040-IAA-212	AFE12C4E-IAA-103	16.60	12.40	9.60	1/4	3/8	9				

New Model	New Compressor Model	New Length	New Width	New Height	New Liquid	New Suction	New MCA	New Rated Capacities			
								LT_134a	LT_404A	MT_134a	MT_404A
M7JH-0014-IAA-177	ARE17C4E-IAA-103	14.10	11.45	11.37	1/4	5/16	5.9				1380
M7JH-H020-IAA-078	ARE25C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	6.8				1970
M7JH-0026-IAA-177	ARE35C5E-IAA-103	14.10	11.45	11.37	1/4	5/16	9.3				2410
M7JH-0026-IAA-272	ARE35C5E-IAA-103	14.41	12.12	11.37	1/4	3/8	9.3				2410
M7ZH-H042-IAA-272	ARE48C5E-IAA-103	16.58	13.09	11.70	1/4	3/8	10.9				3660
M7ZH-H046-IAA-177	RRT62C1E-IAA-104	17.45	13.46	11.71	3/8		12.8				4210
M7ZH-H046-IAA-177	RRT62C1E-IAA-104	17.45	13.46	11.71	3/8		12.8				4210
M7ZH-H055-CAA-272	RRT64C1E-CAA-104	17.36	13.62	11.71	3/8	5/16	14.6				4930
M7ZH-H055-CAA-272	RRT64C1E-CAA-104	17.36	13.62	11.71	3/8	5/16	14.6				4930
M7ZH-H055-CAA-272	RRT64C1E-CAA-104	17.36	13.62	11.71	3/8	5/16	14.6				4930
M7GH-H072-CFA-272	RRT81C1E-PFA-150	18.83	14.34	12.29	1/2	5/8	18				6450
M7GH-H072-CFA-272	RRT81C1E-PFA-150	18.83	14.34	12.29	1/2	5/8	18				6450
M7JH-0012-IAA-179	ARE13C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.9				1150
M7JH-0012-IAA-177	ARE13C4E-IAA-103	14.10	11.45	11.37	1/4	5/16	5.9				1150
M7JH-0012-IAA-179	ARE13C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.9				1150
M7JH-0014-IAA-179	ARE17C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.9				1380
M7JH-0014-IAA-179	ARE17C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.9				1380
M7JH-0014-IAA-177	ARE17C4E-IAA-103	14.10	11.45	11.37	1/4	5/16	5.9				1380
M7JH-0014-IAA-179	ARE17C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.9				1380
M7JH-0014-IAA-177	ARE17C4E-IAA-103	14.10	11.45	11.37	1/4	5/16	5.9				1380
M7JH-H038-IAA-177	ARE48C5E-IAA-103	14.39	11.45	11.37	1/4	3/8	10.7				3450
M7JH-H038-IAA-177	ARE48C5E-IAA-103	14.39	11.45	11.37	1/4	3/8	10.7				3450
M7ZH-0045-IAA-272	ARE54C5E-IAA-103	16.58	13.09	11.71	1/4	5/16	12.5				4010
M7JH-H042-IAA-177	ARE54C5E-IAA-103	14.39	11.45	11.37	1/4	3/8	6.8				3830
M7JH-H042-IAA-179	ARE54C5E-IAA-103	13.96	11.46	9.67	1/4		6.8				3830
M7JH-H042-IAA-179	ARE54C5E-IAA-103	13.96	11.46	9.67	1/4		6.8				3830
M7JH-H042-IAA-177	ARE54C5E-IAA-103	14.39	11.45	11.37	1/4	3/8	6.8				3830
M7JH-H042-IAA-177	ARE54C5E-IAA-103	14.39	11.45	11.37	1/4	3/8	6.8				3830
M7JH-H042-IAA-272	ARE54C5E-IAA-103	14.41	12.12	11.37	1/4	3/8	12.3				3830
M7JH-H042-IAA-177	ARE54C5E-IAA-103	14.39	11.45	11.37	1/4	3/8	6.8				3830
M7ZH-0041-IAV-078	ARE48C5E-IAV-103	16.58	13.09	11.71	1/4	5/16	6.9				3600
M7ZH-0041-IAV-179	ARE48C5E-IAV-103	16.18	13.32	11.73	1/4	5/16	6.9				3600
M7ZH-0041-IAV-078	ARE48C5E-IAV-103	16.58	13.09	11.71	1/4	5/16	6.9				3600
M7ZH-0041-IAV-078	ARE48C5E-IAV-103	16.58	13.09	11.71	1/4	5/16	6.9				3600
M7ZH-0045-IAA-177	ARE54C5E-IAA-103	16.58	12.68	11.73	1/4	5/16	12.5				4010
M7JP-0020-IAA-177	AFF07C1E-IAA-100	14.37	12.11	11.38	1/4	5/16	5.9	825			1910
M7ZP-H062-CFA-179	RFT18C1E-PFA-102	16.60	14.15	11.70	1/4	3/8	13	2550			5350
M7ZP-H062-CFA-179	RFT18C1E-PFA-102	16.60	14.15	11.70	1/4	3/8	13	2550			5350
M7ZP-H062-CFA-179	RFT18C1E-PFA-102	16.60	14.15	11.70	1/4	3/8	13	2550			5350
M7ZP-H062-CFA-272	RFT18C1E-PFA-102	17.30	13.77	12.29	3/8	1/2	13	2550			5350
M7ZP-H062-CFA-179	RFT18C1E-PFA-102	16.60	14.15	11.70	1/4	3/8	13	2550			5350
M7ZP-H062-CFA-177	RFT18C1E-PFA-102	17.32	13.82	12.29	3/8		13	2550			5350
M7JP-0029-IAA-078	AFF10C1E-IAA-100	14.48	12.11	11.37	1/4	3/8	4.9	1230			2750
M7JP-0029-IAA-078	AFF10C1E-IAA-100	14.48	12.11	11.37	1/4	3/8	4.9	1230			2750
M7JP-0029-IAA-177	AFF10C1E-IAA-100	14.37	12.11	11.38	1/4	5/16	4.9	1230			2750
M7JP-0029-IAA-179	AFF10C1E-IAA-100	14.08	12.12	9.66	1/4	5/16	4.9	1230			2750
M7JP-0029-IAA-179	AFF10C1E-IAA-100	14.08	12.12	9.66	1/4	5/16	4.9	1230			2750
M7JP-0029-IAA-179	AFF10C1E-IAA-100	14.08	12.12	9.66	1/4	5/16	4.9	1230			2750
M7JP-0029-IAA-078	AFF10C1E-IAA-100	14.48	12.11	11.37	1/4	3/8	4.9	1230			2750
M7JP-0029-IAA-177	AFF10C1E-IAA-100	14.37	12.11	11.38	1/4	5/16	4.9	1230			2750
M7JP-0029-IAA-179	AFF10C1E-IAA-100	14.08	12.12	9.66	1/4	5/16	4.9	1230			2750
M7JP-0029-IAA-179	AFF10C1E-IAA-100	14.08	12.12	9.66	1/4	5/16	4.9	1230			2750
M7JP-0029-IAA-177	AFF10C1E-IAA-100	14.37	12.11	11.38	1/4	5/16	4.9	1230			2750
M7JM-0019-IAA-179	AFE05C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.3	734			734
M7JM-0019-IAA-179	AFE05C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.3	734			734
M7JM-0019-IAA-179	AFE05C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.3	734			734
M7ZP-0041-IAA-179	AFE12C4E-IAA-103	16.18	13.32	11.73	1/4	5/16	9	1600			1600
M7ZP-0041-IAA-177	AFE12C4E-IAA-103	16.58	12.68	11.73	1/4	5/16	9	1600			1600
M7ZP-0041-IAA-179	AFE12C4E-IAA-103	16.18	13.32	11.73	1/4	5/16	9	1600			1600
M7ZP-0041-IAA-179	AFE12C4E-IAA-103	16.18	13.32	11.73	1/4	5/16	9	1600			1600
M7ZP-0041-IAA-177	AFE12C4E-IAA-103	16.58	12.68	11.73	1/4	5/16	9	1600			1600

Copeland to Copeland Cross Reference

Old Model	Compressor Model	Length	Width	Height	Liquid Conn.	Suction Conn.	MCA	Old Rated Capacities			
								LT_134A	LT_404A	MT_134A	MT_404A
M2FM-0050-IAA-123	RRT64C1E-IAA-109	16.00	12.70	11.74	3/8	3/8	14.6				4350
M2FM-0050-IAA-212	RRT64C1E-IAA-109	16.20	13.70	11.70	1/4	1/2	14.6				4350
M2FM-0050-IAA-252	RRT64C1E-IAA-109	16.20	13.70	11.70	1/4	1/2	14.6				4350
M2FM-0050-IAV-212	RRT64C1E-IAV-109	16.16	13.68	11.70	1/4	1/2	8.6				4350
M2FM-0054-IAA-123	RRT64C1E-IAA-109						14.6				4530
M2FM-0059-IAA-102	RRT64C1E-IAA-104	17.40	14.00	11.80	1/4	3/8	15.5				4830
M2FM-0059-IAA-215	RRT64C1E-IAA-104	17.40	14.40	11.80	1/4	3/8	15.5				4830
M2FM-0074-CFA-115	RRT10K1E-PFA-150	17.50	14.03	11.87	1/4	1/2	18.7				7050
M2FM-0074-CFA-212	RRT10K1E-PFA-150	24.00	17.58	12.10	3/8	5/8	18.7				7050
M2FM-0074-CFA-252	RRT10K1E-PFA-150	17.50	14.38	11.92	1/4	5/8	18.7				7050
M2FM-0075-CFA-020	RRT10K1E-PFA-150	24.00	17.49	13.07	3/8	5/8	19				7140
M2FM-0075-CFA-121	RRT10K1E-PFA-150	24.00	16.67	13.07	3/8	1/2	19				7140
M2FM-0075-CFA-221	RRT10K1E-PFA-150	24.00	17.49	13.07	3/8	1/2	19				7140
M2FM-0075-CFV-020	RRT10K1E-PFV-150	24.00	17.49	13.07	3/8	5/8	11.2				7140
M2FM-0075-CFV-115	RRT10K1E-PFV-150	24.00	16.76	13.07	3/8	5/8	11.2				7140
M2FM-0075-CFV-212	RRT10K1E-PFV-150	24.00	17.49	13.07	3/8	5/8	11.2				7140
M2FM-0076-CFA-221	RRT10K1E-PFA-150	24.00	17.60	13.10	3/8	1/2	19				7470
M2FM-E076-CFA-221	RRT10K1E-PFA-150	24.00	17.60	13.10	3/8	1/2	18.2				7470
M2HH-0024-IAA-140	ARE25C3E-IAA-103	16.70	6.90	10.80	1/4	3/8	6.5				1260
M2HH-0024-SAA-102	ARE25C3E-SAA-103	16.40	7.00	10.70	3/8	3/8	6.3				1260
M2HH-H016-IAA-140	ARE13C4E-IAA-103						5.7				1030
M2HH-H017-IAA-102	ARE13C4E-IAA-103						6				1030
M2HH-H024-IAV-340	ARE25C4E-IAV-103						3.4				1510
M2NH-H017-IAA-300	ARE13C4E-IAA-103	13.90	11.50	8.40	1/4	3/8	5.3				
M2PH-0026-IAA-020	ARE27C3E-IAA-103	19.90	11.10	10.60	1/4	3/8	6.9				2080
M2PH-0026-IAA-103	ARE27C3E-IAA-103	19.88	11.10	10.52	1/4	3/8	6.9				2080
M2PH-0026-IAA-121	ARE27C3E-IAA-103	19.88	11.00	10.52	1/4	5/16	6.9				2080
M2PH-0026-IAA-122	ARE27C3E-IAA-103	19.88	11.72	10.52	1/4	5/16	6.9				2080
M2PH-0026-IAA-123	ARE27C3E-IAA-103						6.9				2080
M2PH-0026-IAA-140	ARE27C3E-IAA-103	19.88	11.00	10.52	1/4	3/8	6.9				2080
M2PH-0026-IAA-144	ARE27C3E-IAA-103	19.88	11.06	10.52	1/4	5/16	6.9				2080
M2PH-0040-IAA-208	ARE41C3E-IAA-103	19.88	11.01	10.52	1/4	3/8	10.2				2870
M2PH-0040-IAA-214	ARE41C3E-IAA-103						10.2				2870
M2PH-A025-IAA-140	ARE27C3E-IAA-103	19.88	11.00	10.52	1/4	5/16	7.1				
M2PH-A033-IAA-103	ARE37C3E-IAA-103	18.80	10.00	10.52	1/4	3/8	9.9				2620
M2PH-A033-IAA-111	ARE37C3E-IAA-103	19.88	11.00	10.52	1/4	3/8	9.9				2620
M2PH-A033-IAA-121	ARE37C3E-IAA-103	19.88	11.00	10.52	1/4	5/16	9.9				2620
M2PH-A033-IAA-144	ARE37C3E-IAA-103	19.88	11.06	10.52	1/4	5/16	9.9				2620
M2PH-A033-IAA-160	ARE37C3E-IAA-103	19.90	11.00	10.50	1/4	5/16	9.9				2620
M2PH-A033-IAA-161	ARE37C3E-IAA-103	19.90	11.30	10.50	1/4	5/16	9.9				2620
M2PH-A033-IAA-162	ARE37C3E-IAA-103	19.88	11.70	10.52	1/4	5/16	9.9				2620
M2PH-A033-IAA-176	ARE37C3E-IAA-103	19.88	11.00	10.52	1/4	5/16	9.9				2620
M2PH-A033-IAA-208	ARE37C3E-IAA-103	19.88	11.06	10.52	1/4	3/8	9.9				2620
M2PH-A033-IAA-212	ARE37C3E-IAA-103	19.88	11.06	10.52	1/4	3/8	9.9				2620
M2PH-A033-IAV-103	ARE37C3E-IAV-103	19.88	11.10	10.52	1/4	3/8	4.9				2620
M2PH-A033-IAV-121	ARE37C3E-IAV-103						4.9				2620
M2PH-A033-IAV-122	ARE37C3E-IAV-103	19.88	11.19	10.47	1/4	5/16	4.9				2620
M2PH-A033-IAV-160	ARE37C3E-IAV-103						4.9				2620
M2PH-A033-IAV-208	ARE37C3E-IAV-103	19.88	11.06	10.52	1/4	3/8	4.9				2620
M2PH-A033-IAV-212	ARE37C3E-IAV-103	19.88	11.06	10.52	1/4	3/8	4.9				2620
M2PH-H020-IAA-121	ARE17C4E-IAA-103						6				1410
M2PH-H024-IAV-321	ARE25C4E-IAV-103						3.4				1860
M2PH-H047-CAA-144	ARE51C4E-CAA-103	19.90	11.90	10.40	1/4	3/8	14				
M2PH-H047-CAA-208	ARE51C4E-CAA-103	19.90	11.10	10.40	1/4	3/8	14				
M2PH-H047-CAA-212	ARE51C4E-CAA-103	19.90	11.10	10.40	1/4	3/8	14				
M2PH-H047-IAV-212	ARE51C4E-IAV-103	20.00	11.20	10.50	1/4	3/8	6.7				
M2PH-M033-IAA-103	ARE37C3E-IAA-103	20.00	11.00	10.50	1/4	3/8	9.7				2370
M2PL-A025-IAA-212	AFE10C3E-IAA-103	19.88	11.06	10.52	1/4	3/8	6.9	1070			
M2PL-B033-IAA-020	AFE12C3E-IAA-103	19.88	11.06	10.52	1/4	3/8	6.7	1240			
M2PL-H040-IAA-103	AFE12C4E-IAA-103	19.90	11.10	10.50	1/4	1/4	9	1530			
M2PL-H040-IAA-212	AFE12C4E-IAA-103	19.88	11.15	10.46	1/4	3/8	9	1530			
M2SH-A033-IAA-140	ARE37C3E-IAA-103	13.64	10.74	9.62	3/8	3/8	9.9				2620

New Model	New Compressor Model	New Length	New Width	New Height	New Liquid	New Suction	New MCA	New Rated Capacities			
								LT_134a	LT_404A	MT_134a	MT_404A
M7ZH-H055-CAA-179	RRT64C1E-CAA-104	16.60	14.11	11.71	1/4		14.6				4930
M7ZH-H055-CAA-272	RRT64C1E-CAA-104	17.36	13.62	11.71	3/8	5/16	14.6				4930
M7ZH-H055-CAA-272	RRT64C1E-CAA-104	17.36	13.62	11.71	3/8	5/16	14.6				4930
M7ZH-H055-CAV-272	RRT64C1E-CAV-104	17.36	13.62	11.71	3/8	5/16	8.6				4930
M7ZH-H055-CAA-272	RRT64C1E-CAA-104	17.36	13.62	11.71	3/8	5/16	14.6				4930
M7ZH-H055-CAA-179	RRT64C1E-CAA-104	16.60	14.11	11.71	1/4		14.6				4930
M7ZH-H055-CAA-179	RRT64C1E-CAA-104	16.60	14.11	11.71	1/4		14.6				4930
M7GH-H083-CFA-272	RRT10K1E-PFA-150	18.83	14.34	12.29	1/2	5/8	18.7				7280
M7GH-H083-CFA-272	RRT10K1E-PFA-150	18.83	14.34	12.29	1/2	5/8	18.7				7280
M7GH-H083-CFA-272	RRT10K1E-PFA-150	18.83	14.34	12.29	1/2	5/8	18.7				7280
M7KH-0086-CFA-072	RRT10K1E-PFA-150	24.00	16.39	13.08	3/8	5/8	19				7610
M7KH-0086-CFA-179	RRT10K1E-PFA-150	24.00	16.27	13.08	1/4	5/8	19				7610
M7KH-0086-CFA-272	RRT10K1E-PFA-150	16.39	24.00	13.08	3/8	5/8	19				7610
M7KH-0086-CFV-072	RRT10K1E-PFV-150	24.00	16.39	13.08	3/8	5/8	11.2				7610
M7KH-0086-CFV-179	RRT10K1E-PFV-150	24.00	16.27	13.08	1/4	5/8	11.2				7610
M7KH-0086-CFV-177	RRT10K1E-PFV-150	24.00	16.39	13.08	3/8	1/2	11.2				7610
M7KH-0086-CFA-272	RRT10K1E-PFA-150	16.39	24.00	13.08	3/8	5/8	19				7610
M7KH-0086-CFA-272	RRT10K1E-PFA-150	16.39	24.00	13.08	3/8	5/8	19				7610
M7JH-0014-IAA-179	ARE17C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.9				1380
M7JH-0014-IAA-179	ARE17C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.9				1380
M7JH-0012-IAA-179	ARE13C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.9				1150
M7JH-0012-IAA-179	ARE13C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.9				1150
M7JH-0018-IAV-078											
M7JH-0012-IAA-177	ARE13C4E-IAA-103	14.10	11.45	11.37	1/4	5/16	5.9				1150
M7PH-0020-IAA-078	ARE25C4E-IAA-103	19.90	11.16	10.65	1/4	5/16	6.8				1970
M7PH-0020-IAA-177	ARE25C4E-IAA-103	19.88	11.06	10.65	1/4	5/16	6.8				1970
M7PH-0020-IAA-179	ARE25C4E-IAA-103	19.88	11.02	10.48	1/4	5/16	6.8				1970
M7PH-0020-IAA-179	ARE25C4E-IAA-103	19.88	11.02	10.48	1/4	5/16	6.8				1970
M7PH-0020-IAA-179	ARE25C4E-IAA-103	19.88	11.02	10.48	1/4	5/16	6.8				1970
M7PH-0020-IAA-179	ARE25C4E-IAA-103	19.88	11.02	10.48	1/4	5/16	6.8				1970
M7PH-0020-IAA-179	ARE25C4E-IAA-103	19.88	11.02	10.48	1/4	5/16	6.8				1970
M7PH-0029-IAA-179	ARE35C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	9.3				2640
M7PH-0029-IAA-179	ARE35C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	9.3				2640
M7PH-H021-IAA-078	ARE25C4E-IAA-103	19.90	11.21	10.65	1/4	5/16	7				1980
M7PH-0029-IAA-078	ARE35C5E-IAA-103	19.86	11.16	11.16	1/4	5/16	9.3				2640
M7PH-0029-IAA-179	ARE35C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	9.3				2640
M7PH-0029-IAA-078	ARE35C5E-IAA-103	19.86	11.16	11.16	1/4	5/16	9.3				2640
M7PH-0029-IAA-179	ARE35C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	9.3				2640
M7PH-0029-IAA-179	ARE35C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	9.3				2640
M7PH-0029-IAA-179	ARE35C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	9.3				2640
M7PH-0029-IAA-177	ARE35C5E-IAA-103	19.88	11.06	11.16	1/4	5/16	9.3				2640
M7PH-0029-IAA-179	ARE35C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	9.3				2640
M7PH-0029-IAA-179	ARE35C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	9.3				2640
M7PH-0029-IAA-078	ARE35C5E-IAA-103	19.86	11.16	11.16	1/4	5/16	9.3				2640
M7PH-0029-IAB-078											
M7PH-0029-IAB-078											
M7PH-0029-IAB-078											
M7PH-0029-IAB-078											
M7PH-0029-IAB-078											
M7PH-0029-IAB-078											
M7PH-0012-IAA-179	ARE13C4E-IAA-103	19.88	11.02	10.48	1/4	5/16	5.9				1210
M7PH-0020-IAV-078											
M7PH-0042-IAA-179	ARE54C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	12.3				3830
M7PH-0042-IAA-179	ARE54C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	12.3				3830
M7PH-0042-IAA-177	ARE54C5E-IAA-103	19.88	11.06	11.16	1/4	5/16	12.3				3830
M7PH-0042-IAA-177	ARE54C5E-IAA-103	19.88	11.06	11.16	1/4	5/16	12.3				3830
M7PH-0024-IAA-177	ARE29C4E-IAA-103	19.88	11.06	10.65	1/4	5/16	4.4				2290
M7PP-0032-IAA-177	AFF10C1E-IAA-100	19.90	11.06	11.69	1/4	5/16	4.9	1330			3100
M7PP-0032-IAA-078	AFF10C1E-IAA-100	19.90	11.16	11.69	1/4	3/8	4.9	1330			3100
M7PM-0036-IAA-177	AFE12C4E-IAA-103	19.88	11.06	11.16	1/4	5/16	8.8	1560			
M7PM-H040-IAA-272	AFE12C4E-IAA-103	19.88	11.21	11.14	1/4	5/16	9	1580			
M7JH-0026-IAA-179	ARE35C5E-IAA-103	13.94	11.46	9.61	1/4	3/8	9.3				2410

Copeland to Copeland Cross Reference

Old Model	Compressor Model	Length	Width	Height	Liquid Conn.	Suction Conn.	MCA	Old Rated Capacities			
								LT_134A	LT_404A	MT_134A	MT_404A
M2TH-0024-IAA-108	ARE25C3E-IAA-103	19.00	8.50	10.50	1/4	5/16	6.7				1730
M2TH-0024-IAA-118	ARE25C3E-IAA-103	19.00	9.40	10.50	1/4	5/16	6.7				1730
M2TH-0024-IAA-122	ARE25C3E-IAA-103						6.7				1730
M2TH-0024-IAA-128	ARE25C3E-IAA-103	19.30	8.70	10.50	1/4	5/16	6.7				1730
M2TH-0024-IAA-160	ARE25C3E-IAA-103	19.00	9.35	10.53	1/4		6.7				1730
M2TH-0024-IAA-908	ARE25C3E-IAA-103	19.00	8.50	10.50	1/4	5/16	6.7				1730
M2TH-0024-IAA-918	ARE25C3E-IAA-103	19.00	9.40	10.50	1/4	5/16	6.7				1730
M2TH-0026-IAA-108	ARE27C3E-IAA-103						7.1				1970
M2TH-0026-IAA-118	ARE27C3E-IAA-103	19.00	9.40	10.50	1/4	5/16	15				1970
M2TH-0026-IAA-908	ARE27C3E-IAA-103						7.1				1970
M2TH-0026-IAA-918	ARE27C3E-IAA-103	19.00	9.40	10.50	1/4	5/16	7.1				1970
M2TH-0034-IAA-108	ARE37C3E-IAA-103						9.9				2310
M2TH-0034-IAA-118	ARE37C3E-IAA-103	19.00	9.40	10.50	1/4	5/16	9.9				2310
M2TH-0034-IAA-128	ARE37C3E-IAA-103						9.9				2310
M2TH-0034-IAA-908	ARE37C3E-IAA-103						9.9				2310
M2TH-0034-IAA-918	ARE37C3E-IAA-103	19.00	9.40	10.50	1/4	5/16	9.9				2310
M2TH-0035-IAA-122	ARE37C3E-IAA-103						10.1				
M2TH-0035-IAA-128	ARE37C3E-IAA-103						10.1				
M2TH-H017-IAA-908	ARE13C4E-IAA-103						6.1				1160
M2TH-H017-IAA-918	ARE13C4E-IAA-103	19.00	9.46	10.53	1/4	5/16	6.1				1160
M2TH-H020-IAA-108	ARE17C4E-IAA-103						6.1				1390
M2TH-H020-IAA-160	ARE17C4E-IAA-103	19.00	9.35	10.53	1/4	3/8	6.1				1390
M2TH-H020-IAA-908	ARE17C4E-IAA-103						6.1				1390
M2TH-H020-IAA-918	ARE17C4E-IAA-103	19.00	9.46	10.53	1/4	5/16	6.1				1390
M2TH-H033-IAA-108	ARE34C4E-IAA-103	19.00	8.50	10.50	1/4	5/16	6.6				2320
M2TH-H033-IAA-118	ARE34C4E-IAA-103	19.00	8.50	10.50	1/4	5/16	6.6				2320
M2TH-H033-IAA-121	ARE34C4E-IAA-103	19.00	8.50	10.50	1/4	5/16	6.6				2320
M2TH-H033-IAA-140	ARE34C4E-IAA-103						6.6				2320
M2TH-H033-IAA-908	ARE34C4E-IAA-103	19.00	8.50	10.50	1/4	5/16	6.6				2320
M2TH-H033-IAA-918	ARE34C4E-IAA-103	19.00	9.40	10.50	1/4	5/16	6.6				2320
M2TH-H033-IAA-919	ARE34C4E-IAA-103	19.00	9.40	10.50	1/4	3/16	6.6				2320
M2WH-C026-IAA-020	ARE27C3E-IAA-103	17.90	12.98	8.65	1/4	3/8	6.2				2160
M2WH-C033-IAA-020	ARE37C3E-IAA-103	17.90	12.98	8.65	1/4	3/8	9				3000
M2WH-C033-IAV-020	ARE37C3E-IAV-103	17.90	12.98	8.65	1/4	3/8	4.3				3000
M2WH-C040-IAA-020	ARE41C3E-IAA-103	17.90	12.98	8.65	1/4	3/8	9.3				3390
M2WH-C074-CFA-220	RRT81C1E-PFA-150	19.50	12.71	11.91	1/4	5/8	16.3				
M2WH-C074-CFV-220	RRT81C1E-PFV-150	19.51	12.70	11.92	1/4	5/8	8.1				
M2WH-D050-IAA-020	RRT62C1E-IAA-104	13.80	18.60	9.30	1/4	3/8	11.9				4610
M2WH-D050-IAA-121	RRT62C1E-IAA-104	13.80	18.60	9.30	1/4	3/8	11.9				
M2WH-D050-IAV-020	RRT62C1E-IAV-104	13.80	18.60	9.30	1/4	3/8	5.4				4610
M2WH-D056-IAA-020	RRT64C1E-IAA-104	18.50	13.80	9.80	1/4	3/8	13.8				5510
M2WH-D056-IAV-020	RRT64C1E-IAV-104	12.80	17.90	9.20	1/4	3/8	8				5510
M2WH-H049-CAA-021	ARE51C4E-CAA-103						13.1				
M2WH-H049-CAA-121	ARE51C4E-CAA-103	12.80	17.90	9.20	1/4	3/8	13.1				
M2WH-H049-CAA-220	ARE51C4E-CAA-103	12.80	18.20	9.20	1/4	3/8	13.1				
M2WH-H049-IAV-020	ARE51C4E-IAV-103	18.20	12.90	9.30	1/4	3/8	6.1				4150
M2WM-C075-CFA-020	RRT10K1E-PFA-150	24.00	17.58	12.10	3/8	5/8	17				8490
M2WM-C075-CFA-122	RRT10K1E-PFA-150	24.00	17.51	12.10	3/8	5/8	17				
M2WM-C075-CFV-020	RRT10K1E-PFV-150	24.00	16.50	12.10	3/8	5/8	10				8490
M3CD-E053-IAA-140	AFE13C3E-IAA-103						13.6		2070		1520
M3CD-H053-IAA-140											
M4AF-A078-CAA-160	RST55C1E-CAA-102						20.5				
M4AF-A078-CAV-160	RST55C1E-CAV-104						9.7				
M4CF-0050-IAA-212	RST45C1E-IAA-108	21.30	13.40	11.70	1/4	1/2	14		2260		4500
M4CF-0050-IAA-252	RST45C1E-IAA-108	21.40	13.40	11.70	1/4	1/2	14		2260		4500
M4CF-0073-CAA-240	RST55C1E-CAA-108	17.40	21.40	11.00	1/4	3/8	22.2		2880		6070
M4CF-0077-CFA-146	RST64C1E-CFA-102						20		3890		7280
M4CF-E052-CAA-143	RST40C1E-CAA-104						12.1		2200		4470
M4CH-A036-IAA-260	ASE24C3E-IAA-103	18.00	15.74	11.73	1/4	3/8	8.4				3370
M4CL-0034-IAA-141	AFE11C3E-IAA-103						7.9		1430		
M4CL-0034-IAA-146	AFE11C3E-IAA-103	17.38	12.69	11.84	3/8	3/8	7.9		1430		
M4CL-0034-IAA-147	AFE11C3E-IAA-103	17.40	12.70	11.80	1/4	3/8	7.9		1430		

New Model	New Compressor Model	New Length	New Width	New Height	New Liquid	New Suction	New MCA	New Rated Capacities			
								LT_134a	LT_404A	MT_134a	MT_404A
M7TH-0020-IAA-108	ARE25C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	6.8				1940
M7TH-0020-IAA-118	ARE25C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	6.8				1940
M7TH-0020-IAA-108	ARE25C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	6.8				1940
M7TH-0020-IAA-108	ARE25C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	6.8				1940
M7TH-0020-IAA-118	ARE25C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	6.8				1940
M7TH-0020-IAA-108	ARE25C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	6.8				1940
M7TH-0020-IAA-118	ARE25C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	6.8				1940
M7TH-0020-IAA-108	ARE25C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	6.8				1940
M7TH-0020-IAA-118	ARE25C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	6.8				1940
M7TH-0020-IAA-108	ARE25C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	6.8				1940
M7TH-0025-IAA-108	ARE34C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	6.4				2250
M7TH-0025-IAA-118	ARE34C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	6.4				2250
M7TH-0025-IAA-108	ARE34C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	6.4				2250
M7TH-0025-IAA-108	ARE34C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	6.4				2250
M7TH-0025-IAA-118	ARE34C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	6.4				2250
M7TH-0036-IAA-108	ARE48C5E-IAA-103	19.04	8.47	10.53	1/4	5/16	10.7				3370
M7TH-0036-IAA-108	ARE48C5E-IAA-103	19.04	8.47	10.53	1/4	5/16	10.7				3370
M7TH-0012-IAA-108	ARE13C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	5.9				1200
M7TH-0012-IAA-118	ARE13C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	5.9				1200
M7TH-0015-IAA-108	ARE17C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	5.9				1440
M7TH-0015-IAA-118	ARE17C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	5.9				1440
M7TH-0015-IAA-108	ARE17C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	5.9				1440
M7TH-0015-IAA-118	ARE17C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	5.9				1440
M7TH-0023-IAA-108	ARE29C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	5.5				2250
M7TH-0023-IAA-118	ARE29C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	5.5				2250
M7TH-0023-IAA-108	ARE29C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	5.5				2250
M7TH-0023-IAA-108	ARE29C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	5.5				2250
M7TH-0023-IAA-118	ARE29C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	5.5				2250
M7TH-0023-IAA-118	ARE29C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	5.5				2250
M7WH-0026-IAA-020	ARE29C4E-IAA-103	18.18	13.20	9.42	1/4	3/8	4.9				
M7WH-0033-IAA-020	ARE35C5E-IAA-103	18.18	13.21	9.92	1/4	3/8	8.6				
M7WH-0033-IAB-020											
M7WH-0040-IAA-020	ARE40C4E-IAA-103	18.18	13.21	9.92	1/4	3/8	8.8				
Obsolete											
Obsolete											
M7WH-0050-IAA-020	RRT62C1E-IAA-104	18.55	13.44	9.68	3/8	1/2	11.9				
M7WH-0050-IAA-020	RRT62C1E-IAA-104	18.55	13.44	9.68	3/8	1/2	11.9				
M7WH-0050-IAV-020	RRT62C1E-IAV-104	18.55	13.44	9.68	3/8	1/2	5.4				
M7WH-0056-IAA-020	RRT64C1E-IAA-104	18.30	12.87	9.99	3/8	1/2	13.8				
M7WH-0056-IAV-020	RRT64C1E-IAV-104	18.30	12.87	9.99	3/8	1/2	8				
M7WH-0050-IAA-020	RRT62C1E-IAA-104	18.55	13.44	9.68	3/8	1/2	11.9				
M7WH-0050-IAA-020	RRT62C1E-IAA-104	18.55	13.44	9.68	3/8	1/2	11.9				
M7WH-0050-IAA-020	RRT62C1E-IAA-104	18.55	13.44	9.68	3/8	1/2	11.9				
M7WH-0049-IAV-020	ARE51C4E-IAV-103	18.18	13.21	9.92	1/4	3/8	6.1				
M7WM-0075-CFA-020	RRT10K1E-PFA-150	24.24	16.10	13.20	3/8	5/8	17				
M7WM-0075-CFA-020	RRT10K1E-PFA-150	24.24	16.10	13.20	3/8	5/8	17				
M7WM-0075-CFV-020	RRT10K1E-PFV-150	24.24	16.10	13.20	3/8	5/8	10				
Obsolete R22 Unit											
Obsolete R22 Unit											
M6RP-H080-CAA-072	RST55C1E-CAA-102	19.50	28.08	12.23	3/8	3/8	20.5		3450		7130
M6RP-H080-CAV-072	RST55C1E-CAV-104	19.50	28.08	12.23	3/8	1/2	9.7		3450		7130
M6ZM-0048-IAA-177	ASE39C5E-IAA-103	16.58	12.68	11.73	1/4	5/16	13.4		2580		4620
M6ZM-0048-IAA-272	ASE39C5E-IAA-103	16.58	13.09	11.71	1/4	5/16	13.4		2580		4620
M6GP-H074-CAA-179	RST55C1E-CAA-102	18.10	14.34	11.79	1/4		20.5		3260		6550
M6GP-H090-CFA-179	RST64C1E-CFA-102	18.10	14.34	11.79	1/4		20		4010		7580
M6ZP-H059-CAA-179	RST45C1E-CAA-102	16.60	14.14	11.71	1/4		14		2480		5060
M6ZM-H035-IAA-272	ASE24C5E-IAA-103	16.58	13.09	11.70	1/4	3/8	8.6		1380		3140
M6ZL-H032-IAA-078	AFE11C4E-IAA-103	16.52	13.08	11.70	1/4	3/8	6.1		1300		
M6ZL-H032-IAA-078	AFE11C4E-IAA-103	16.52	13.08	11.70	1/4	3/8	6.1		1300		
M6ZL-H032-IAA-078	AFE11C4E-IAA-103	16.52	13.08	11.70	1/4	3/8	6.1		1300		

Copeland to Copeland Cross Reference

Old Model	Compressor Model	Length	Width	Height	Liquid Conn.	Suction Conn.	MCA	Old Rated Capacities				
								LT_134A	LT_404A	MT_134A	MT_404A	
M4CL-0034-IAA-148	AFE11C3E-IAA-103						7.9			1430		
M4CL-0034-IAA-149	AFE11C3E-IAA-103						7.9			1430		
M4CL-0035-IAA-060	AFE13C3E-IAA-103	17.64	14.16	11.21	1/4	3/8	8.9			1960		
M4CL-0035-IAA-121	AFE13C3E-IAA-103	13.82	11.51	9.67	1/4	5/16	8.9			1960		
M4CL-0035-IAA-122	AFE13C3E-IAA-103	13.80	11.30	9.70	1/4	3/8	8.9			1960		
M4CL-0035-IAA-140	AFE13C3E-IAA-103	11.37	10.82	9.67	1/4	5/16	8.9			1960		
M4CL-0035-IAA-144	AFE13C3E-IAA-103	13.82	11.80	9.62	1/4	5/16	8.9			1960		
M4CL-0035-IAA-212	AFE13C3E-IAA-103	13.82	11.91	9.67	1/4	5/16	8.9			1960		
M4CL-0035-IAA-215	AFE13C3E-IAA-103	13.82	11.91	9.67	1/4	5/16	8.9			1960		
M4CL-0035-IAA-222	AFE13C3E-IAA-103	13.86	11.69	9.67	1/4	3/8	8.9			1960		
M4CL-0035-IAA-223	AFE13C3E-IAA-103	13.82	11.80	9.62	1/4	3/8	8.9			1960		
M4CL-0035-IAA-224	AFE13C3E-IAA-103						8.9			1960		
M4CL-0035-IAA-241	AFE13C3E-IAA-103	13.82	11.91	9.67	1/4	5/16	8.9			1960		
M4CL-0035-IAV-122	AFE13C3E-IAV-103						4.6			1960		
M4CL-0036-IAV-121	AFE13C3E-IAV-103						4.6					
M4CL-0039-IAA-153	AFE13C3E-IAA-103	21.30	13.70	9.60	1/4	3/8	8.5			1880		
M4CL-0040-IAA-060	AFE13C3E-IAA-103	17.64	13.07	11.84	1/4	3/8	8.9			2040		
M4CL-0040-IAA-061	AFE13C3E-IAA-103						8.9			2040		
M4CL-0040-IAA-141	AFE13C3E-IAA-103						8.9			2040		
M4CL-0040-IAA-146	AFE13C3E-IAA-103	17.38	12.66	11.84	3/8	3/8	8.9			2040		
M4CL-0040-IAA-147	AFE13C3E-IAA-103	17.40	12.70	11.80	1/4	3/8	8.9			2040		
M4CL-0040-IAV-146	AFE13C3E-IAV-103	17.40	12.10	11.80	3/8	3/8	4.6			2040		
M4CL-0050-IAA-140	AFE13C3E-IAA-103	18.75	13.75	12.48	1/4	5/16	8.9			2040		
M4CL-0050-IAA-146	AFE13C3E-IAA-103	18.75	13.75	12.48	1/4	5/16	8.9			2040		
M4CL-0050-IAV-140	AFE13C3E-IAV-103	20.88	13.75	12.48	1/4	5/16	4.6			2040		
M4CL-0050-IAV-146	AFE13C3E-IAV-103	23.00	13.75	12.48	1/4	5/16	4.6			2040		
M4CL-0062-CAA-140	RST55C1E-CAA-102						20.4			2880		
M4CL-0062-CAA-215	RST55C1E-CAA-102	22.46	12.96	11.73		3/8	20.4			2880		
M4CL-0075-CAB-252	RST64C1E-CAV-108	23.50	13.30	11.70	1/4	5/8	12.3			3790		
M4CL-0075-CAV-212	RST64C1E-CAV-108	23.50	13.30	11.70	1/4	5/8	12.3			3790		
M4CL-0075-CFA-115	RST64C1E-CFA-102	22.30	12.70	11.70	1/4	3/8	20			3790		
M4CL-0075-CFA-212	RST64C1E-CFA-108	23.50	13.30	11.70	1/4	5/8	20			3790		
M4CL-0075-IAV-215	RST64C1E-IAV-102	22.40	12.70	11.70	1/4	3/8	12.3			3790		
M4CL-0090-CFV-140	RFT42C1E-PFV-102	19.50	22.50	11.17	1/4	3/8	11.2			4470		
M4CL-A036-IAA-153	AFE11C3E-IAA-103	21.30	13.00	9.70	1/4	3/8	7.5			1310		
M4CL-A067-CAA-146	RFT26C1E-CAA-102	17.70	14.10	11.00	3/8	3/8	15.1			3030		
M4CL-A067-CAV-143	RFT26C1E-CAV-104	22.60	23.30	20.00		3/8	9			3030		
M4CL-F034-IAA-146	AFE11C3E-IAA-103						7.9			1350		
M4CL-F040-IAA-146	AFE13C3E-IAA-103						8.9			1830		
M4CL-F045-IAA-140	RFT22C1E-IAA-102	19.55	17.10	12.20	1/4	3/8	11.1			2290		
M4CL-F050-IAA-146	AFE17C4E-IAA-103						10.6			2000		
M4CL-H025-IAA-148	AFE08C4E-IAA-103	17.38	12.09	9.73	1/4	3/8	5.6			834		
M4CL-H025-IAA-149	AFE08C4E-IAA-103	17.38	12.09	9.73	1/4	3/8	5.6			834		
M4CL-H036-IAA-121	AFE13C4E-IAA-103						7.7			1250		
M4CL-H050-IAA-122	AFE17C4E-IAA-103						10.6			2160		
M4CL-H050-IAA-123	AFE17C4E-IAA-103						10.6			2160		
M4CL-H050-IAA-141	AFE17C4E-IAA-103						10.6			2160		
M4CL-H050-IAA-146	AFE17C4E-IAA-103	17.38	12.09	11.84	3/8	3/8	10.6			2160		
M4CL-H050-IAA-147	AFE17C4E-IAA-103	17.40	12.70	11.80	1/4	3/8	10.6			2160		
M4CL-H050-IAV-146	AFE17C4E-IAV-103						5.6			2160		
M4CL-H051-IAA-140	AFE17C4E-IAA-103						10.4					
M4CM-H021-IAA-140	ASE12C4E-IAA-103						5.5					1580
M4CM-H021-IAA-143	ASE12C4E-IAA-103						5.5					1580
M4EF-0050-IAA-212	RST45C1E-IAA-108	17.00	15.50	11.80	1/4	1/2	14			2220		4380
M4EF-0050-IAA-252	RST45C1E-IAA-108	17.00	15.50	11.80	1/4	1/2	14			2220		4380
M4EF-0058-IAA-072	RST45C1E-IAA-108	24.00	17.10	13.59	3/8	1/2	15.1			2470		5250
M4EF-0058-IAA-272	RST45C1E-IAA-108	24.00	17.20	13.70	3/8	1/2	15.1			2470		5250
M4EF-0058-IAA-278	RST45C1E-IAA-108	24.00	17.20	13.70	1/2	3/8	15.1			2470		5250
M4EF-0075-CAA-212	RST55C1E-CAA-108	24.00	16.80	13.70	3/8	3/8	20.8			3080		6620
M4EF-0075-CAA-252	RST55C1E-CAA-108	24.00	16.80	13.70	3/8	5/8	20.8			3080		6620
M4EF-0080-CAV-240	RST64C1E-CAV-102	24.00	16.80	13.70	3/8	3/8	12.4			3880		7640
M4EF-0080-CAV-252	RST64C1E-CAV-108	24.00	16.80	13.70	3/8	5/8	12.4			3880		7640

New Model	New Compressor Model	New Length	New Width	New Height	New Liquid	New Suction	New MCA	New Rated Capacities			
								LT_134a	LT_404A	MT_134a	MT_404A
M6ZL-H032-IAA-078	AFE11C4E-IAA-103	16.52	13.08	11.70	1/4	3/8	6.1		1300		
M6ZL-H032-IAA-078	AFE11C4E-IAA-103	16.52	13.08	11.70	1/4	3/8	6.1		1300		
M6JL-H041-IAA-272	AFE14C5E-IAA-103	14.41	12.12	11.37	1/4	3/8	8.2		1730		
M6JL-H041-IAA-177	AFE14C5E-IAA-103	14.39	11.57	11.37	1/4	3/8	8.2		1730		
M6JL-H041-IAA-179	AFE14C5E-IAA-103	13.96	11.56	9.67	1/4		8.2		1730		
M6JL-H041-IAA-272	AFE14C5E-IAA-103	14.41	12.12	11.37	1/4	3/8	8.2		1730		
M6JL-H041-IAA-179	AFE14C5E-IAA-103	13.96	11.56	9.67	1/4		8.2		1730		
M6JL-H041-IAA-177	AFE14C5E-IAA-103	14.39	11.57	11.37	1/4	3/8	8.2		1730		
M6JL-H041-IAA-272	AFE14C5E-IAA-103	14.41	12.12	11.37	1/4	3/8	8.2		1730		
M6JL-H041-IAA-272	AFE14C5E-IAA-103	14.41	12.12	11.37	1/4	3/8	8.2		1730		
M6JL-H041-IAA-272	AFE14C5E-IAA-103	14.41	12.12	11.37	1/4	3/8	8.2		1730		
M6JL-H041-IAA-272	AFE14C5E-IAA-103	14.41	12.12	11.37	1/4	3/8	8.2		1730		
M6JL-H041-IAA-272	AFE14C5E-IAA-103	14.41	12.12	11.37	1/4	3/8	8.2		1730		
M6JL-H048-IAV-179	AFE17C4E-IAV-103	13.96	11.56	9.67	1/4		5.6		1940		
M6JL-H048-IAV-179	AFE17C4E-IAV-103	13.96	11.56	9.67	1/4		5.6		1940		
M6JL-H048-IAA-177	AFE17C4E-IAA-103	14.39	11.57	11.37	1/4	3/8	10.4		1940		
M6ZL-0042-IAA-272	AFE14C5E-IAA-103	16.58	13.09	11.71	1/4	5/16	8.4		1780		
M6ZL-0042-IAA-272	AFE14C5E-IAA-103	16.58	13.09	11.71	1/4	5/16	8.4		1780		
M6ZL-0042-IAA-179	AFE14C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.4		1780		
M6ZL-0042-IAA-179	AFE14C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.4		1780		
M6ZL-0042-IAA-179	AFE14C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.4		1780		
M6ZL-0042-IAA-179	AFE14C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.4		1780		
M6ZL-0042-IAV-179	AFE14C5E-IAV-103	16.18	13.32	11.73	1/4	5/16	4.4		1780		
M6ZL-0042-IAA-179	AFE14C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.4		1780		
M6ZL-0042-IAA-179	AFE14C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.4		1780		
M6ZL-0042-IAA-179	AFE14C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.4		1780		
M6ZL-H044-IAV-078	AFE14C5E-IAV-103	16.58	13.09	11.70	1/4	3/8	4.4		1820		
M6ZL-H044-IAV-078	AFE14C5E-IAV-103	16.58	13.09	11.70	1/4	3/8	4.4		1820		
M6JL-H069-CAA-272	AFE26C5E-CAA-103	14.41	12.01	11.37	1/4	5/16	12.3		2830		
M6JL-H069-CAA-272	AFE26C5E-CAA-103	14.41	12.01	11.37	1/4	5/16	12.3		2830		
M6GP-H090-CAV-272	RST64C1E-CAV-102	18.84	14.34	12.29	3/8	1/2	12.3		4010		7580
M6GP-H090-CAV-177	RST64C1E-CAV-102	18.82	14.34	12.29	3/8		12.3		4010		7580
M6GP-H090-CFA-179	RST64C1E-CFA-102	18.10	14.34	11.79	1/4		20		4010		7580
M6GP-H090-CFA-177	RST64C1E-CFA-102	18.82	14.34	12.29	3/8		20		4010		7580
M6GP-H074-CAV-177	RST55C1E-CAV-104	18.86	14.34	11.79	3/8		9.5		3260		6550
M6ZL-0098-CFV-179	RST80C1E-PFV-150	16.46	14.14	12.18	1/4		12.2		4190		7210
M6PL-H032-IAA-078	AFE11C4E-IAA-103	19.90	11.21	10.65	1/4	5/16	6.1		1260		
M6QL-H074-CAA-272	AFE26C5E-CAA-103	15.66	12.01	11.37	1/4	5/16	12.3		2890		
M6ZL-H078-IAV-272	RFT26C1E-IAV-104	17.45	13.57	11.71	3/8	3/8	8.6		3100		
M6ZL-0031-IAA-179	AFE11C4E-IAA-103	16.18	13.32	11.73	1/4	5/16	6.1		1270		
M6ZL-0042-IAA-179	AFE14C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.4		1780		
M6ZL-0063-IAA-179	RFT22C1E-IAA-102	16.60	14.18	11.73	1/4		10.9				
M6ZL-0055-IAA-179	AFE20C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.8		2350		
M6JL-0021-IAA-179	AFE08C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.5		872		
M6JL-0021-IAA-179	AFE08C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.5		872		
Obsolete											
M6ZL-0055-IAA-179	AFE20C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.8		2350		
M6ZL-0055-IAA-179	AFE20C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.8		2350		
M6ZL-0055-IAA-179	AFE20C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.8		2350		
M6ZL-0055-IAA-179	AFE20C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.8		2350		
M6ZL-0055-IAA-179	AFE20C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.8		2350		
M6ZL-0055-IAV-179	AFE20C5E-IAV-103	16.18	13.32	11.73	1/4	5/16	6		2350		
M6GL-H057-IAA-272	AFE17C4E-IAA-103	18.10	14.34	11.83	1/4	3/8	11.5		2130		
M6JM-0017-IAA-179	ASE12C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.4		785		1620
M6JM-0017-IAA-179	ASE12C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.4		785		1620
M6EP-H056-IAA-103	RST45C1E-IAA-102	16.26	15.66	11.75	1/4	3/8	14		2340		4660
M6EP-H056-IAA-103	RST45C1E-IAA-102	16.26	15.66	11.75	1/4	3/8	14		2340		4660
M6BP-0064-CAA-272	RST45C1E-CAA-102	24.00	16.82	13.64	3/8	3/8	15.1		2600		5560
M6BP-0064-CAA-272	RST45C1E-CAA-102	24.00	16.82	13.64	3/8	3/8	15.1		2600		5560
M6BP-0064-CAA-177	RST45C1E-CAA-102	24.00	16.69	13.64	3/8	3/8	15.1		2600		5560
M6BP-0075-CAA-177	RST55C1E-CAA-102	24.00	16.69	13.64	3/8	3/8	20.8		3290		6660
M6BP-0075-CAA-177	RST55C1E-CAA-102	24.00	16.69	13.64	3/8	3/8	20.8		3290		6660
M6BP-0092-CAV-272	RST64C1E-CAV-102	24.00	16.85	13.64	3/8	3/8	12.4		4050		7750
M6BP-0092-CAV-177	RST64C1E-CAV-102	24.00	16.72	13.64	3/8	3/8	12.4		4050		7750

Copeland to Copeland Cross Reference

Old Model	Compressor Model	Length	Width	Height	Liquid Conn.	Suction Conn.	MCA	Old Rated Capacities			
								LT_134A	LT_404A	MT_134A	MT_404A
M4EF-0080-CFA-121	RST64C1E-CFA-102	24.00	16.70	13.70	3/8	1/2	20.3		3880		7640
M4EF-0080-CFA-141	RST64C1E-CFA-102	24.10	16.80	13.70	1/4	3/8	20.3		3880		7640
M4EF-0080-CFA-152	RST64C1E-CFA-102	24.00	16.70	13.70	3/8	1/2	20.3		3880		7640
M4EF-0080-CFA-212	RST64C1E-CFA-108	24.00	17.10	13.80	3/8	5/8	20.3		3880		7640
M4EF-0080-IAV-140	RST64C1E-IAV-102	24.00	16.80	13.70	1/4	3/8	12.4		3880		7640
M4EH-0025-IAA-212	ASE19C3E-IAA-103	10.52	16.00	14.25	1/4	3/8	10.7				2430
M4EH-0049-CAA-020	ASE32C3E-CAA-103	16.00	15.12	11.75	1/4	3/8	12.3				3970
M4EH-0049-CAA-103	ASE32C3E-CAA-103	16.00	15.20	11.75	1/4	3/8	12.3				3970
M4EH-0049-CAA-144	ASE32C3E-CAA-103	16.01	15.20	11.75	1/4	5/16	12.3				3970
M4EH-0049-CAA-208	ASE32C3E-CAA-103	16.17	15.29	11.78	1/4	3/8	12.3				3970
M4EH-0049-CAA-212	ASE32C3E-CAA-103	16.17	15.29	11.78	1/4	3/8	12.3				3970
M4EH-0049-CAA-244	ASE32C3E-CAA-103	16.04	15.29	11.82	1/4	5/16	12.3				3970
M4EH-0049-CAV-212	ASE32C3E-CAV-103	16.17	15.29	11.78	1/4	3/8	6.7				3970
M4EH-A035-IAA-103	ASE24C3E-IAA-103	16.00	15.20	11.78	1/4	3/8	8.4				3100
M4EH-A035-IAA-111	ASE24C3E-IAA-103	16.00	15.20	11.78	1/4	3/8	8.4				3100
M4EH-A035-IAA-208	ASE24C3E-IAA-103	16.00	15.20	11.78	1/4	3/8	8.4				3100
M4EH-A035-IAA-212	ASE24C3E-IAA-103	16.17	15.29	11.78	1/4	3/8	8.4				3100
M4EH-A035-IAV-212	ASE24C3E-IAV-103	16.17	15.29	11.78	1/4	3/8	5.9				3100
M4EL-0033-IAA-103	AFE11C3E-IAA-103	14.25	16.00	10.52	1/4	3/8	7.7		1390		
M4EL-0033-IAA-212	AFE11C3E-IAA-103	14.25	16.00	10.52	1/4	3/8	7.7		1390		
M4EL-0039-IAA-111	AFE13C3E-IAA-103	16.00	15.20	11.78	1/4	3/8	8.9			1980	
M4EL-0039-IAA-212	AFE13C3E-IAA-103	16.00	15.29	11.78	1/4	3/8	8.9			1980	
M4EL-0063-CAA-121	RFT26C1E-CAA-102							14.3			2740
M4EL-A055-IAA-140	RFT22C1E-IAA-102	16.00	15.50	11.80	1/4	3/8	10.9				2320
M4EL-A055-IAA-141	RFT22C1E-IAA-102	16.00	15.50	11.80	1/4	3/8	10.9				2320
M4EL-H050-IAA-103	AFE17C4E-IAA-103	16.00	15.00	11.77	1/4	3/8	10.6				2130
M4EL-H050-IAA-212	AFE17C4E-IAA-103	16.03	15.12	11.77	1/4	3/8	10.6				2130
M4FF-0050-CAA-141	RST45C1E-CAA-102							14			2350
M4FF-0050-IAA-141	RST45C1E-IAA-102	16.13	13.41	11.73	1/4	3/8	14				4660
M4FF-0050-IAA-160	RST45C1E-IAA-102	16.13	13.52	11.74	1/4	3/8	14				4660
M4FF-0050-IAA-208	RST45C1E-IAA-108	16.20	13.10	11.70	1/4	1/2	14				4660
M4FF-0050-IAA-210	RST45C1E-IAA-108	16.20	13.10	11.70	1/4	1/2	14				4660
M4FF-0050-IAA-212	RST45C1E-IAA-108	16.10	13.70	11.70	1/4	1/2	14				4660
M4FF-0050-IAA-221	RST45C1E-IAA-108	16.10	13.70	11.70	1/4	1/2	14				4660
M4FF-0050-IAA-252	RST45C1E-IAA-108	16.00	13.70	11.70	1/4	1/2	14				4660
M4FF-0050-IAB-252	RST45C1E-IAV-109	16.10	13.70	11.70	1/4	1/2	7				2350
M4FF-0050-IAV-141	RST45C1E-IAV-104							7.2			2350
M4FF-0050-IAV-212	RST45C1E-IAV-109	16.10	13.70	11.70	1/4	1/2	7.2				2350
M4FF-0056-CAA-172	RST45C1E-CAA-102							14.8			2460
M4FF-0056-CAA-212	RST45C1E-CAA-108	17.40	14.40	11.80	1/4	5/8	14.8				5180
M4FF-0056-CAA-222	RST45C1E-CAA-108	17.50	14.40	11.80	1/4	1/2	14.8				5180
M4FF-0056-IAA-020	RST45C1E-IAA-108	17.50	15.50	11.82	1/4	5/8	14.8				5180
M4FF-0056-IAA-040	RST45C1E-IAA-108	17.50	14.38	11.82	3/8	1/2	14.8				5180
M4FF-0056-IAA-041	RST45C1E-IAA-108	17.40	14.40	11.80	1/4	5/8	14.8				5180
M4FF-0056-IAA-060	RST45C1E-IAA-108	22.20	14.40	14.90	1/4	3/8	14.8				5180
M4FF-0056-IAA-062	RST45C1E-IAA-108	17.40	14.40	11.80	1/4	1/2	14.8				5180
M4FF-0056-IAA-065	RST45C1E-IAA-102	17.40	16.90	11.80	1/4	1/2	14.8				5180
M4FF-0056-IAA-076	RST45C1E-IAA-108	18.40	15.10	11.98	1/4	1/2	14.8				5180
M4FF-0056-IAA-077	RST45C1E-IAA-108	18.50	15.20	11.98	1/4	1/2	14.8				5180
M4FF-0056-IAA-103	RST45C1E-IAA-108	17.40	14.00	11.80	1/4	5/8	14.8				5180
M4FF-0056-IAA-115	RST45C1E-IAA-108	17.40	14.10	11.80	1/4	1/2	14.8				5180
M4FF-0056-IAA-116	RST45C1E-IAA-108	17.40	14.10	11.80	1/4	1/2	14.8				5180
M4FF-0056-IAA-119	RST45C1E-IAA-108	17.40	14.00	11.80	1/4	1/2	14.8				5180
M4FF-0056-IAA-120	RST45C1E-IAA-108	17.40	14.00	11.80	1/4	5/8	14.8				5180
M4FF-0056-IAA-122	RST45C1E-IAA-108	17.40	14.00	11.80	1/4	1/2	14.5				5180
M4FF-0056-IAA-153	RST45C1E-IAA-108	23.80	14.00	11.80	1/4	5/8	14.8				5180
M4FF-0056-IAA-160	RST45C1E-IAA-102	17.50	14.00	11.80	1/4	3/8	14.8				5180
M4FF-0056-IAA-176	RST45C1E-IAA-108	17.38	14.38	12.87	1/4	3/8	14.8				5180
M4FF-0056-IAA-212	RST45C1E-IAA-108	17.40	14.40	11.80	1/4	5/8	14.8				5180
M4FF-0056-IAA-214	RST45C1E-IAA-102	17.40	14.40	11.80	1/4	3/8	14.8				5180
M4FF-0056-IAA-215	RST45C1E-IAA-102	17.40	14.40	11.80	1/4	1 1/2	14.8				5180
M4FF-0056-IAA-221	RST45C1E-IAA-108	17.50	14.40	11.80	3/8	1/2	14.8				5180

New Model	New Compressor Model	New Length	New Width	New Height	New Liquid	New Suction	New MCA	New Rated Capacities			
								LT_134a	LT_404A	MT_134a	MT_404A
M6BP-0092-CFA-177	RST64C1E-CFA-102	24.00	16.29	13.64	3/8	3/8	20.3		4050		7750
M6BP-0092-CFA-177	RST64C1E-CFA-102	24.00	16.29	13.64	3/8	3/8	20.3		4050		7750
M6BP-0092-CFA-177	RST64C1E-CFA-102	24.00	16.29	13.64	3/8	3/8	20.3		4050		7750
M6BP-0092-CFA-177	RST64C1E-CFA-102	24.00	16.29	13.64	3/8	3/8	20.3		4050		7750
M6BP-0092-CAV-177	RST64C1E-CAV-102	24.00	16.72	13.64	3/8	3/8	12.4		4050		7750
M6EM-H026-IAA-103	ASE14C4E-IAA-103	16.06	15.12	11.75	1/4	5/16	6.7		1080		2260
M6EM-H040-IAA-103	ASE28C5E-IAA-103	16.06	15.12	11.75	1/4	5/16	9.9		1960		3580
M6EM-H040-IAA-103	ASE28C5E-IAA-103	16.06	15.12	11.75	1/4	5/16	9.9		1960		3580
M6EM-H040-IAA-103	ASE28C5E-IAA-103	16.06	15.12	11.75	1/4	5/16	9.9		1960		3580
M6EM-H040-IAA-111	ASE28C5E-IAA-103	16.06	15.12	11.75	1/4	5/16	9.9		1960		3580
M6EM-H040-IAA-103	ASE28C5E-IAA-103	16.06	15.12	11.75	1/4	5/16	9.9		1960		3580
M6EM-H040-IAA-103	ASE28C5E-IAA-103	16.06	15.12	11.75	1/4	5/16	9.9		1960		3580
Obsolete											
M6EM-H034-IAA-103	ASE24C5E-IAA-103	16.06	15.12	11.75	1/4	5/16	8.6		1340		3030
M6EM-H034-IAA-111	ASE24C5E-IAA-103	16.06	15.12	11.75	1/4	5/16	8.6		1340		3030
M6EM-H034-IAA-111	ASE24C5E-IAA-103	16.06	15.12	11.75	1/4	5/16	8.6		1340		3030
M6EM-H034-IAA-103	ASE24C5E-IAA-103	16.06	15.12	11.75	1/4	5/16	8.6		1340		3030
M6EM-H034-IAA-103	ASE24C5E-IAA-103	16.06	15.12	11.75	1/4	5/16	8.6		1340		3030
M6EL-0038-IAA-103	AFE13C4E-IAA-103	16.00	14.25	10.52	1/4	5/16	7.7		1610		1610
M6EL-0038-IAA-103	AFE13C4E-IAA-103	16.00	14.25	10.52	1/4	5/16	7.7		1610		1610
M6EL-0048-CAA-111	AFE17C4E-CAA-103	16.00	14.25	10.52		5/16	10.4		2070		
M6EL-0048-CAA-212	AFE17C4E-CAA-103	16.00	14.25	10.47	1/4	5/16	10.4		2070		
M6EL-0060-CAA-103	AFE23C5E-CAA-103	16.00	14.25	10.47	1/4	5/16	10		2850		
M6EL-H056-IAA-103	AFE20C5E-IAA-103	16.06	15.12	11.75	1/4	5/16	8.8		2330		
M6EL-H056-IAA-103	AFE20C5E-IAA-103	16.06	15.12	11.75	1/4	5/16	8.8		2330		
M6EL-0052-IAA-103	AFE20C5E-IAA-103	16.00	14.25	10.52	1/4	5/16	8.5		2240		
M6EL-0052-IAA-103	AFE20C5E-IAA-103	16.00	14.25	10.52	1/4	5/16	8.5		2240		
M6ZP-0053-IAA-179	RST45C1E-IAA-102	16.60	14.18	11.73	1/4		14		2460		4980
M6ZP-0053-IAA-179	RST45C1E-IAA-102	16.60	14.18	11.73	1/4		14		2460		4980
M6ZP-0053-IAA-177	RST45C1E-IAA-102	17.36	13.52	11.75	3/8		14		2460		4980
M6ZP-0053-IAA-179	RST45C1E-IAA-102	16.60	14.18	11.73	1/4		14		2460		4980
M6ZP-0053-IAA-179	RST45C1E-IAA-102	16.60	14.18	11.73	1/4		14		2460		4980
M6ZP-0053-IAA-177	RST45C1E-IAA-102	17.36	13.52	11.75	3/8		14		2460		4980
M6ZP-0053-IAA-272	RST45C1E-IAA-102	17.36	13.67	11.71	3/8	3/8	14		2460		4980
M6ZP-0053-IAA-272	RST45C1E-IAA-102	17.36	13.67	11.71	3/8	3/8	14		2460		4980
M6ZP-0053-IAV-078	RST45C1E-IAV-104	17.36	13.68	11.71	3/8	3/8	7.2		2460		4980
M6ZP-0053-IAV-078	RST45C1E-IAV-104	17.36	13.68	11.71	3/8	3/8	7.2		2460		4980
M6ZP-0053-IAV-177	RST45C1E-IAV-104	17.36	13.55	11.75	3/8		7.2		2460		4980
M6GP-H064-CAA-177	RST45C1E-CAA-102	18.86	14.34	11.79	3/8		14.8		2580		5490
M6GP-H064-CAA-272	RST45C1E-CAA-102	18.88	14.34	11.83	3/8	1/2	14.8		2580		5490
M6GP-H064-CAA-272	RST45C1E-CAA-102	18.88	14.34	11.83	3/8	1/2	14.8		2580		5490
M6GP-H064-CAA-272	RST45C1E-CAA-102	18.88	14.34	11.83	3/8	1/2	14.8		2580		5490
M6GP-H064-CAA-272	RST45C1E-CAA-102	18.88	14.34	11.83	3/8	1/2	14.8		2580		5490
M6GP-H064-CAA-272	RST45C1E-CAA-102	18.88	14.34	11.83	3/8	1/2	14.8		2580		5490
M6GP-H064-CAA-272	RST45C1E-CAA-102	18.88	14.34	11.83	3/8	1/2	14.8		2580		5490
M6GP-H064-CAA-272	RST45C1E-CAA-102	18.88	14.34	11.83	3/8	1/2	14.8		2580		5490
M6GP-H064-CAA-272	RST45C1E-CAA-102	18.88	14.34	11.83	3/8	1/2	14.8		2580		5490
M6GP-H064-CAA-272	RST45C1E-CAA-102	18.88	14.34	11.83	3/8	1/2	14.8		2580		5490
M6GP-H064-CAA-177	RST45C1E-CAA-102	18.86	14.34	11.79	3/8		14.8		2580		5490
M6GP-H064-CAA-177	RST45C1E-CAA-102	18.86	14.34	11.79	3/8		14.8		2580		5490
M6GP-H064-CAA-177	RST45C1E-CAA-102	18.86	14.34	11.79	3/8		14.8		2580		5490
M6GP-H064-CAA-179	RST45C1E-CAA-102	18.10	14.34	11.79	1/4		14.8		2580		5490
M6GP-H064-CAA-179	RST45C1E-CAA-102	18.10	14.34	11.79	1/4		14.8		2580		5490
M6GP-H064-CAA-179	RST45C1E-CAA-102	18.10	14.34	11.79	1/4		14.8		2580		5490
M6GP-H064-CAA-177	RST45C1E-CAA-102	18.86	14.34	11.79	3/8		14.8		2580		5490
M6GP-H064-CAA-272	RST45C1E-CAA-102	18.88	14.34	11.83	3/8	1/2	14.8		2580		5490
M6GP-H064-CAA-272	RST45C1E-CAA-102	18.88	14.34	11.83	3/8	1/2	14.8		2580		5490
M6GP-H064-CAA-272	RST45C1E-CAA-102	18.88	14.34	11.83	3/8	1/2	14.8		2580		5490
M6GP-H064-CAA-179	RST45C1E-CAA-102	18.10	14.34	11.79	1/4		14.8		2580		5490
M6GP-H064-CAA-272	RST45C1E-CAA-102	18.88	14.34	11.83	3/8	1/2	14.8		2580		5490
M6GP-H064-CAA-272	RST45C1E-CAA-102	18.88	14.34	11.83	3/8	1/2	14.8		2580		5490

Copeland to Copeland Cross Reference

Old Model	Compressor Model	Length	Width	Height	Liquid Conn.	Suction Conn.	MCA	Old Rated Capacities			
								LT_134A	LT_404A	MT_134A	MT_404A
M4FF-0056-IAA-222	RST45C1E-IAA-108	17.40	14.40	11.80	1/4	5/8	14.8		2460		5180
M4FF-0056-IAA-252	RST45C1E-IAA-108	17.40	14.40	11.80	1/4	5/8	14.8		2460		5180
M4FF-0056-IAA-272	RST45C1E-IAA-108	17.40	14.40	11.80	1/4	5/8	14.8		2460		5180
M4FF-0056-IAB-252	RST45C1E-IAV-109	17.40	14.40	11.80	1/4	5/8	7.2		2460		5180
M4FF-0056-IAV-020	RST45C1E-IAV-109	17.40	14.40	11.80	1/4	5/8	7.6		2540		5350
M4FF-0056-IAV-040	RST45C1E-IAV-109	19.50	18.80	12.01	5/8	1 1/16	7.6		2540		5350
M4FF-0056-IAV-041	RST45C1E-IAV-109	17.50	17.40	11.80	1/2	5/8	7.6		2540		5350
M4FF-0056-IAV-0H3	RST45C1E-IAV-109	24.50	21.20	18.60	1/4	5/8	7.6		2540		5350
M4FF-0056-IAV-103	RST45C1E-IAV-109	17.40	14.00	11.80	1/4	5/8	7.6		2540		5350
M4FF-0056-IAV-141	RST45C1E-IAV-109	17.50	17.42	12.11	1/4	5/8	7.6		2540		5350
M4FF-0056-IAV-160	RST45C1E-IAV-104	17.40	14.00	11.80	1/4	3/8	7.6		2540		5350
M4FF-0056-IAV-212	RST45C1E-IAV-109	17.40	14.40	11.80	1/4	5/8	7.6		2540		5350
M4FF-0056-IAV-240	RST45C1E-IAV-109	23.80	15.10	11.80	1/4	5/8	7.6		2540		5350
M4FF-0056-IAV-272	RST45C1E-IAV-109	17.40	14.40	11.80	1/4	5/8	7.6		2540		5350
M4FF-0057-IAA-140	RST45C1E-IAA-108	17.50	12.70	11.80	1/4	1/2	14.8		2320		4730
M4FF-0059-IAA-272	RST45C1E-IAA-108	24.00	17.18	13.03	3/8	5/8	15.1		2600		5590
M4FF-0059-IAV-045	RST45C1E-IAV-109	28.90	18.30	15.70	5/8	1 1/16	7.5		2600		5590
M4FF-0059-IAV-272	RST45C1E-IAV-109	24.00	17.50	13.03	3/8	5/8	7.8		2600		5590
M4FF-0075-CAA-020	RST55C1E-CAA-108	24.00	16.90	13.10	3/8	5/8	20.8		3090		6660
M4FF-0075-CAA-021	RST55C1E-CAA-108	24.00	17.06	13.07	3/8	5/8	20.8		3090		6660
M4FF-0075-CAA-050	RST55C1E-CAA-108	24.00	16.90	13.10	3/8	5/8	20.8		3090		6660
M4FF-0075-CAA-123	RST55C1E-CAA-108	24.00	16.30	13.10	1/4	1/2	20.8		3090		6660
M4FF-0075-CAA-160	RST55C1E-CAA-102	24.00	17.10	13.10	3/8	3/8	20.8		3090		6660
M4FF-0075-CAA-212	RST55C1E-CAA-108	24.00	16.90	13.10	3/8	5/8	20.8		3090		6660
M4FF-0075-CAA-221	RST55C1E-CAA-108	24.00	16.90	13.10	3/8	1/2	20.8		3090		6660
M4FF-0075-CAA-272	RST55C1E-CAA-108	24.00	16.90	13.10	3/8	5/8	20.8		3090		6660
M4FF-0075-CAV-020	RST55C1E-CAV-109	24.00	16.30	13.10	3/8	5/8	9.7		3090		6660
M4FF-0075-CAV-041	RST55C1E-CAV-109	24.00	17.10	13.10	3/8	5/8	9.7		3090		6660
M4FF-0075-CAV-050	RST55C1E-CAV-109	24.00	17.00	13.10	3/8	5/8	9.7		3090		6660
M4FF-0075-CAV-0H2	RST55C1E-CAV-109	30.23	24.86	22.61	1/4	5/8	9.6		3090		6660
M4FF-0075-CAV-121	RST55C1E-CAV-109	24.00	17.00	13.10	3/8	5/8	9.7		3090		6660
M4FF-0075-CAV-160	RST55C1E-CAV-104	17.50	14.00	11.80	1/4	5/8	9.7		3090		6660
M4FF-0075-CAV-212	RST55C1E-CAV-109	24.00	16.90	13.10	3/8	5/8	9.7		3090		6660
M4FF-0075-CAV-272	RST55C1E-CAV-109	24.00	16.90	13.10	3/8	5/8	9.7		3090		6660
M4FF-0077-CAV-221	RST64C1E-CAV-108	17.50	14.40	11.80	1/4	1/2	12.3		3840		7480
M4FF-0077-CFA-104	RST64C1E-CFA-108	17.50	14.40	11.80	1/4	5/8	20		3840		7480
M4FF-0077-CFA-116	RST64C1E-CFA-108	17.50	14.00	11.80	1/4	1/2	20		3840		7480
M4FF-0077-CFA-140	RST64C1E-CFA-102	17.50	14.40	11.80	1/4	3/8	20		3840		7480
M4FF-0077-CFA-141	RST64C1E-CFA-102	17.50	14.40	11.80	1/4	3/8	20		3840		7480
M4FF-0077-CFA-208	RST64C1E-CFA-108	17.50	14.40	11.80	1/4	1/2	20		3840		7480
M4FF-0077-CFA-212	RST64C1E-CFA-108	17.50	14.40	11.80	1/4	5/8	20		3840		7480
M4FF-0077-CFA-240	RST64C1E-CFA-108	23.90	15.00	11.80	1/4	5/8	20		3840		7480
M4FF-0077-IAB-252	RST64C1E-IAV-108	17.50	14.40	11.80	1/4	5/8	11.8		3840		7480
M4FF-0077-IAV-123	RST64C1E-IAV-108	17.50	14.00	11.80	1/4	5/8	12.3		3840		7480
M4FF-0077-IAV-172	RST64C1E-IAV-102	17.38	13.99	11.82	1/4	3/8	12.3		3840		7480
M4FF-0077-IAV-208	RST64C1E-IAV-108	17.50	14.40	11.80	1/4	5/8	12.3		3840		7480
M4FF-0077-IAV-212	RST64C1E-IAV-108	17.50	14.40	11.80	1/4	5/8	12.3		3840		7480
M4FF-0077-IAV-221	RST64C1E-IAV-108	17.50	14.40	11.80	1/4	1/2	12.3		3840		7480
M4FF-0080-CAV-020	RST64C1E-CAV-108	24.00	16.80	13.10	3/8	5/8	12.4		3880		7640
M4FF-0080-CAV-021	RST64C1E-CAV-108	24.00	16.80	13.10	3/8	5/8	12.4		3880		7640
M4FF-0080-CAV-050	RST64C1E-CAV-108	24.00	16.80	13.10	3/8	5/8	12.4		3880		7640
M4FF-0080-CAV-072	RST64C1E-CAV-108	24.00	16.80	13.10	3/8	5/8	12.4		3880		7640
M4FF-0080-CAV-0H3	RST64C1E-CAV-108	30.23	25.29	22.61	1/4	5/8	12.3		3880		7640
M4FF-0080-CAV-207	RST64C1E-CAV-108	24.00	16.85	13.07	3/8	1/2	12.4		3880		7640
M4FF-0080-CAV-212	RST64C1E-CAV-108	24.00	16.80	13.10	3/8	5/8	12.4		3880		7640
M4FF-0080-CAV-221	RST64C1E-CAV-108						12.4		3880		7640
M4FF-0080-CAV-252	RST64C1E-CAV-108	24.00	16.80	13.10	3/8	5/8	12.4		3880		7640
M4FF-0080-CFA-017	RST64C1E-CFA-108	24.00	16.30	13.10	3/8	5/8	20.3		3880		7640
M4FF-0080-CFA-020	RST64C1E-CFA-108	24.00	16.80	13.10	3/8	5/8	20.3		3880		7640
M4FF-0080-CFA-207	RST64C1E-CFA-108	24.00	16.80	13.10	3/8	1/2	20.3		3880		7640
M4FF-0080-CFA-212	RST64C1E-CFA-108	24.00	16.80	13.10	3/8	5/8	20.3		3880		7640
M4FF-0080-CFA-240	RST64C1E-CFA-108	24.00	22.60	13.10	3/8	5/8	20.3		3880		7640

New Model	New Compressor Model	New Length	New Width	New Height	New Liquid	New Suction	New MCA	New Rated Capacities			
								LT_134a	LT_404A	MT_134a	MT_404A
M6GP-H064-CAA-272	RST45C1E-CAA-102	18.88	14.34	11.83	3/8	1/2	14.8		2580		5490
M6GP-H064-CAA-177	RST45C1E-CAA-102	18.88	14.34	11.83	3/8	1/2	14.8		2580		5490
M6GP-H064-CAA-272	RST45C1E-CAA-102	18.88	14.34	11.83	3/8	1/2	14.8		2580		5490
M6GP-H064-CAV-278	RST45C1E-CAV-104	18.88	14.34	11.83	3/8	5/16	7.4		2580		5490
M6GP-H064-CAV-278	RST45C1E-CAV-104	18.88	14.34	11.83	3/8	5/16	7.4		2580		5490
M6GP-H064-CAV-278	RST45C1E-CAV-104	18.88	14.34	11.83	3/8	5/16	7.4		2580		5490
M6GP-H064-CAV-278	RST45C1E-CAV-104	18.88	14.34	11.83	3/8	5/16	7.4		2580		5490
M6GP-H064-CAV-177	RST45C1E-CAV-104	18.86	14.34	11.79	3/8		7.4		2580		5490
M6GP-H064-CAV-177	RST45C1E-CAV-104	18.86	14.34	11.79	3/8		7.4		2580		5490
M6GP-H064-CAV-278	RST45C1E-CAV-104	18.88	14.34	11.83	3/8	5/16	7.4		2580		5490
M6GP-H064-CAV-278	RST45C1E-CAV-104	18.88	14.34	11.83	3/8	5/16	7.4		2580		5490
M6GP-H064-CAV-177	RST45C1E-CAV-104	18.86	14.34	11.79	3/8		7.4		2580		5490
M6GP-H064-CAV-278	RST45C1E-CAV-104	18.88	14.34	11.83	3/8	5/16	7.4		2580		5490
M6GP-H064-CAV-177	RST45C1E-CAV-104	18.86	14.34	11.79	3/8		7.4		2580		5490
M6GP-H064-CAA-179	RST45C1E-CAA-102	18.10	14.34	11.79	1/4		14.8		2580		5490
M6KP-0064-CAA-177	RST45C1E-CAA-102	24.00	16.39	13.08	1/4	3/8	15.1		2600		5560
M6KP-0064-CAV-072	RST45C1E-CAV-104	24.00	16.39	13.08	3/8	3/8	7.5		2600		5560
M6KP-0064-CAV-177	RST45C1E-CAV-104	24.00	16.39	13.08	1/4	3/8	7.5		2600		5560
M6KP-0075-CAA-072	RST55C1E-CAA-102	24.00	16.39	13.08	3/8	3/8	20.8		3290		6660
M6KP-0075-CAA-072	RST55C1E-CAA-102	24.00	16.39	13.08	3/8	3/8	20.8		3290		6660
M6KP-0075-CAA-072	RST55C1E-CAA-102	24.00	16.39	13.08	3/8	3/8	20.8		3290		6660
M6KP-0075-CAA-179	RST55C1E-CAA-102	24.00	16.29	13.08	1/4	3/8	20.8		3290		6660
M6KP-0075-CAA-072	RST55C1E-CAA-102	24.00	16.39	13.08	3/8	3/8	20.8		3290		6660
M6KP-0075-CAA-177	RST55C1E-CAA-102	24.00	16.41	13.08	3/8	3/8	20.8		3290		6660
M6KP-0075-CAA-272	RST55C1E-CAA-102	24.00	16.41	13.08	3/8	3/8	20.8		3290		6660
M6KP-0075-CAA-177	RST55C1E-CAA-102	24.00	16.41	13.08	3/8	3/8	20.8		3290		6660
M6KP-0075-CAV-072	RST55C1E-CAV-104	24.00	16.39	13.08	3/8	3/8	9.7		3290		6660
M6KP-0075-CAV-072	RST55C1E-CAV-104	24.00	16.39	13.08	3/8	3/8	9.7		3290		6660
M6KP-0075-CAV-072	RST55C1E-CAV-104	24.00	16.39	13.08	3/8	3/8	9.7		3290		6660
M6KP-0075-CAV-072	RST55C1E-CAV-104	24.00	16.39	13.08	3/8	3/8	9.7		3290		6660
M6KP-0075-CAV-177	RST55C1E-CAV-104	24.00	16.39	13.08	1/4	3/8	9.7		3290		6660
M6KP-0075-CAV-072	RST55C1E-CAV-104	24.00	16.39	13.08	3/8	3/8	9.7		3290		6660
M6KP-0075-CAV-177	RST55C1E-CAV-104	24.00	16.39	13.08	1/4	3/8	9.7		3290		6660
M6GP-H090-CAV-177	RST64C1E-CAV-102	18.82	14.34	12.29	3/8		12.3		4010		7580
M6GP-H090-CFA-272	RST64C1E-CFA-102	18.84	14.34	12.29	3/8	1/2	20		4010		7580
M6GP-H090-CFA-179	RST64C1E-CFA-102	18.10	14.34	11.79	1/4		20		4010		7580
M6GP-H090-CFA-179	RST64C1E-CFA-102	18.10	14.34	11.79	1/4		20		4010		7580
M6GP-H090-CFA-177	RST64C1E-CFA-102	18.82	14.34	12.29	3/8		20		4010		7580
M6GP-H090-CFA-179	RST64C1E-CFA-102	18.10	14.34	11.79	1/4		20		4010		7580
M6GP-H090-CFA-177	RST64C1E-CFA-102	18.82	14.34	12.29	3/8		20		4010		7580
M6GP-H090-CFA-272	RST64C1E-CFA-102	18.84	14.34	12.29	3/8	1/2	20		4010		7580
M6GP-H090-CAV-272	RST64C1E-CAV-102	18.84	14.34	12.29	3/8	1/2	12.3		4010		7580
M6GP-H090-CAV-177	RST64C1E-CAV-102	18.82	14.34	12.29	3/8		12.3		4010		7580
M6GP-H090-CAV-272	RST64C1E-CAV-102	18.84	14.34	12.29	3/8	1/2	12.3		4010		7580
M6GP-H090-CAV-272	RST64C1E-CAV-102	18.84	14.34	12.29	3/8	1/2	12.3		4010		7580
M6GP-H090-CAV-177	RST64C1E-CAV-102	18.82	14.34	12.29	3/8		12.3		4010		7580
M6GP-H090-CAV-272	RST64C1E-CAV-102	18.84	14.34	12.29	3/8	1/2	12.3		4010		7580
M6KP-0092-CAV-072	RST64C1E-CAV-102	24.00	16.39	13.08	3/8	1/2	12.4		4050		7750
M6KP-0092-CAV-072	RST64C1E-CAV-102	24.00	16.39	13.08	3/8	1/2	12.4		4050		7750
M6KP-0092-CAV-072	RST64C1E-CAV-102	24.00	16.39	13.08	3/8	1/2	12.4		4050		7750
M6KP-0092-CAV-072	RST64C1E-CAV-102	24.00	16.39	13.08	3/8	1/2	12.4		4050		7750
M6KP-0092-CAV-272	RST64C1E-CAV-102	24.00	16.39	13.08	3/8	3/8	12.4		4050		7750
M6KP-0092-CAV-272	RST64C1E-CAV-102	24.00	16.39	13.08	3/8	3/8	12.4		4050		7750
M6KP-0092-CAV-177	RST64C1E-CAV-102	24.00	16.39	13.08	1/4	3/8	12.4		4050		7750
M6KP-0092-CAV-177	RST64C1E-CAV-102	24.00	16.39	13.08	1/4	3/8	12.4		4050		7750
M6KP-0092-CAV-272	RST64C1E-CAV-102	24.00	16.39	13.08	3/8	3/8	12.4		4050		7750
M6KP-0092-CFA-072	RST64C1E-CFA-102	24.00	16.68	13.08	3/8	3/8	20.3		4050		7750
M6KP-0092-CFA-072	RST64C1E-CFA-102	24.00	16.68	13.08	3/8	3/8	20.3		4050		7750
M6KP-0092-CFA-272	RST64C1E-CFA-102	24.00	16.39	13.08	1/4	3/8	20.3		4050		7750
M6KP-0092-CFA-177	RST64C1E-CFA-102	24.00	16.39	13.08	3/8	3/8	20.3		4050		7750
M6KP-0092-CFA-272	RST64C1E-CFA-102	24.00	16.39	13.08	1/4	3/8	20.3		4050		7750

Copeland to Copeland Cross Reference

Old Model	Compressor Model	Length	Width	Height	Liquid Conn.	Suction Conn.	MCA	Old Rated Capacities			
								LT_134A	LT_404A	MT_134A	MT_404A
M4FF-0080-CFA-244	RST64C1E-CFA-108	24.00	16.30	13.10	3/8	5/8	20.3		3880		7640
M4FF-0080-CFA-245	RST64C1E-CFA-108	24.00	16.80	13.10	3/8	5/8	20.3		3880		7640
M4FF-0080-CFA-252	RST64C1E-CFA-108	24.00	16.80	13.10	3/8	5/8	20.3		3880		7640
M4FF-0080-IAV-020	RST64C1E-IAV-108	24.00	16.10	13.10	3/8	5/8	12.4		3880		7640
M4FF-0080-IAV-040	RST64C1E-IAV-108	24.00	16.80	13.10	3/8	5/8	12.4		3880		7640
M4FF-0080-IAV-072	RST64C1E-IAV-108	24.00	16.80	13.10	3/8	5/8	12.4		3880		7640
M4FF-0080-IAV-075	RST64C1E-IAV-108	24.00	16.80	13.10	3/8	5/8	12.4		3880		7640
M4FF-0080-IAV-076	RST64C1E-IAV-108	24.00	16.97	13.08	3/8	5/8	12.4		3880		7640
M4FF-0080-IAV-077	RST64C1E-IAV-102	24.00	16.97	13.08	3/8	5/8	12.4		3880		7640
M4FF-0080-IAV-115	RST64C1E-IAV-108	24.00	16.10	13.00	3/8	5/8	12.4		3880		7640
M4FF-0080-IAV-212	RST64C1E-IAV-108	24.00	16.10	13.10	3/8	5/8	12.4		3880		7640
M4FF-0080-IAV-252	RST64C1E-IAV-108	24.00	16.80	13.10	3/8	5/8	12.4		3880		7640
M4FF-0082-CFA-140	RST80C1E-PFA-150	17.50	14.38	11.82	1/4	1/2	24.5				
M4FF-E050-IAA-212	RST45C1E-IAA-108	16.13	13.68	11.73	1/4	1/2	13.7		2340		4660
M4FF-E050-IAA-221	RST45C1E-IAA-108						13.7		2340		4660
M4FF-E050-IAV-160	RST45C1E-IAV-104	17.50	14.80	11.80	1/4	3/8	7.1		2340		4660
M4FF-E056-CAA-222	RST45C1E-CAA-108	17.50	14.40	11.80	1/4	1/2	14.5		2510		5280
M4FF-E056-IAA-115	RST45C1E-IAA-108	17.50	13.99	11.82	1/4	1/2	14.5		2510		5280
M4FF-E056-IAA-122	RST45C1E-IAA-108						14.5		2510		5280
M4FF-E056-IAA-140	RST45C1E-IAA-108	17.50	13.99	11.82	1/4	1/2	14.5		2510		5280
M4FF-E056-IAV-160	RST45C1E-IAV-104	17.50	14.31	11.71	1/4	3/8	7.7		2510		5280
M4FF-E056-IAV-212	RST45C1E-IAV-109	17.50	14.38	11.82	1/4	5/8	7.7		2510		5280
M4FF-E056-IAV-221	RST45C1E-IAV-109						7.7		2510		5280
M4FF-E075-CAA-040	RST55C1E-CAA-108	24.00	17.06	13.02	3/8	5/8	19.9		3070		6610
M4FF-E075-CAA-212	RST55C1E-CAA-108	24.00	17.10	13.02	3/8	5/8	19.9		3070		6610
M4FF-E075-CAA-221	RST55C1E-CAA-108						19.9		3070		6610
M4FF-E075-CAV-140	RST55C1E-CAV-109	24.00	17.11	13.07	3/8	5/8	9.6		3070		6610
M4FF-E075-CAV-160	RST55C1E-CAV-104	24.00	17.23	13.38	3/8	3/8	9.6		3070		6610
M4FF-E075-CAV-212	RST55C1E-CAV-109	24.00	16.34	13.02	3/8	5/8	9.6		3070		6610
M4FF-E075-CAV-221	RST55C1E-CAV-109						9.6		3070		6610
M4FF-E077-CFA-212	RST64C1E-CFA-108	17.51	14.39	11.82	1/4	5/8	19.7		3770		7060
M4FF-E077-IAV-160	RST64C1E-IAV-102	17.50	14.30	11.80	1/4	3/8	12.3		3770		7060
M4FF-E077-IAV-208	RST64C1E-IAV-108						12.3		3770		7060
M4FF-E077-IAV-212	RST64C1E-IAV-108	17.50	14.38	11.82	1/4	5/8	12.3		3770		7060
M4FF-E080-CAV-212	RST64C1E-CAV-108	24.00	16.89	13.07	3/8	5/8	12.3				
M4FF-E080-CFA-207	RST64C1E-CFA-108	24.00	16.85	13.07	3/8	1/2	19.4				
M4FH-0025-IAA-020	ASE19C3E-IAA-103						10.7				2430
M4FH-0025-IAA-045	ASE19C3E-IAA-103	24.40	19.60	12.60	5/8	1 1/16	10.7				2430
M4FH-0025-IAA-060	ASE19C3E-IAA-103	21.37	12.13	11.44	1/4	3/8	10.7				2430
M4FH-0025-IAA-103	ASE19C3E-IAA-103	13.82	11.44	9.67	1/4	3/8	10.7				2430
M4FH-0025-IAA-111	ASE19C3E-IAA-103	13.82	11.25	9.67	1/4	3/8	10.7				2430
M4FH-0025-IAA-123	ASE19C3E-IAA-103	18.90	11.50	9.70	1/4	3/8	10.7				2430
M4FH-0025-IAA-140	ASE19C3E-IAA-103	20.77	10.75	10.33	1/4	3/8	10.7				2430
M4FH-0025-IAA-212	ASE19C3E-IAA-103	13.85	11.90	9.67	1/4	3/8	10.7				2430
M4FH-0025-IAA-240	ASE19C3E-IAA-103	13.86	12.01	9.94	1/4	3/8	10.7				2430
M4FH-0025-IAA-241	ASE19C3E-IAA-103	13.90	11.69	9.62	1/4	3/8	10.7				2430
M4FH-0025-IAA-260	ASE19C3E-IAA-103	21.37	12.06	11.44	1/4	3/8	10.7				2430
M4FH-0025-IAA-272	ASE19C3E-IAA-103	14.50	12.00	11.40	1/4	3/8	10.7				2430
M4FH-0026-IAA-240	ASE19C3E-IAA-103	15.28	11.90	9.73	1/4	3/8	10.9		1210		
M4FH-0038-IAA-140	ASE24C3E-IAA-103	16.20	13.10	11.80	1/4	3/8	8.9				3130
M4FH-0039-IAA-045	ASE24C3E-IAA-103	25.90	18.60	12.60	5/8	1 1/16	9.1				
M4FH-0050-CAA-020	ASE32C3E-CAA-103						12.3				4380
M4FH-0050-CAA-021	ASE32C3E-CAA-103	16.00	13.07	11.75	1/4	3/8	12.3				4380
M4FH-0050-CAA-103	ASE32C3E-CAA-103	16.06	12.82	11.81	1/4	3/8	12.3				4380
M4FH-0050-CAA-111	ASE32C3E-CAA-103	16.06	12.68	11.81	1/4	3/8	12.3				4380
M4FH-0050-CAA-160	ASE32C3E-CAA-103	18.50	13.10	11.70	1/4	1/2	12.3				4380
M4FH-0050-CAA-212	ASE32C3E-CAA-103	16.06	13.08	11.81	1/4	3/8	12.3				4380
M4FH-0050-CAA-252	ASE32C3E-CAA-103	16.10	13.10	11.80	1/4	3/8	12.3				4380
M4FH-0050-CAA-272	ASE32C3E-CAA-103	16.25	13.08	11.67	1/4	3/8	12.3				4380
M4FH-0050-CAB-252	ASE32C3E-CAV-103	16.18	13.08	11.73	1/4	3/8	6.5				4380
M4FH-0050-CAV-045	ASE32C3E-CAV-103	24.40	18.70	12.60	5/8	1 1/16	6.7				4380
M4FH-0050-CAV-103	ASE32C3E-CAV-103	16.06	12.82	11.81	1/4	3/8	6.7				4380

New Model	New Compressor Model	New Length	New Width	New Height	New Liquid	New Suction	New MCA	New Rated Capacities			
								LT_134a	LT_404A	MT_134a	MT_404A
M6KP-0092-CFA-179	RST64C1E-CFA-102	24.00	16.27	13.08	1/4	3/8	20.3		4050		7750
M6KP-0092-CFA-272	RST64C1E-CFA-102	24.00	16.39	13.08	1/4	3/8	20.3		4050		7750
M6KP-0092-CFA-272	RST64C1E-CFA-102	24.00	16.39	13.08	1/4	3/8	20.3		4050		7750
M6KP-0092-CAV-072	RST64C1E-CAV-102	24.00	16.39	13.08	3/8	1/2	12.4		4050		7750
M6KP-0092-CAV-072	RST64C1E-CAV-102	24.00	16.39	13.08	3/8	1/2	12.4		4050		7750
M6KP-0092-CAV-072	RST64C1E-CAV-102	24.00	16.39	13.08	3/8	1/2	12.4		4050		7750
M6KP-0092-CAV-072	RST64C1E-CAV-102	24.00	16.39	13.08	3/8	1/2	12.4		4050		7750
M6KP-0092-CAV-072	RST64C1E-CAV-102	24.00	16.39	13.08	3/8	1/2	12.4		4050		7750
M6KP-0092-CAV-177	RST64C1E-CAV-102	24.00	16.39	13.08	1/4	3/8	12.4		4050		7750
M6KP-0092-CAV-177	RST64C1E-CAV-102	24.00	16.39	13.08	1/4	3/8	12.4		4050		7750
M6KP-0092-CAV-272	RST64C1E-CAV-102	24.00	16.39	13.08	3/8	3/8	12.4		4050		7750
M6GP-H103-CFA-272	RST80C1E-PFA-150	18.83	14.34	12.29	3/8	1/2	24.5		4670		8880
M6ZP-0053-IAA-272	RST45C1E-IAA-102	17.36	13.67	11.71	3/8	3/8	14		2460		4980
M6ZP-0053-IAA-272	RST45C1E-IAA-102	17.36	13.67	11.71	3/8	3/8	14		2460		4980
M6ZP-0053-IAV-177	RST45C1E-IAV-104	17.36	13.55	11.75	3/8		7.2		2460		4980
M6GP-H064-CAA-177	RST45C1E-CAA-102	18.86	14.34	11.79	3/8		14.8		2580		5490
M6GP-H064-CAA-177	RST45C1E-CAA-102	18.86	14.34	11.79	3/8		14.8		2580		5490
M6GP-H064-CAA-177	RST45C1E-CAA-102	18.86	14.34	11.79	3/8		14.8		2580		5490
M6GP-H064-CAA-177	RST45C1E-CAA-102	18.86	14.34	11.79	3/8		14.8		2580		5490
M6GP-H064-CAV-278	RST45C1E-CAV-104	18.88	14.34	11.83	3/8	5/16	7.4		2580		5490
M6GP-H064-CAV-177	RST45C1E-CAV-104	18.86	14.34	11.79	3/8		7.4		2580		5490
M6GP-H064-CAV-177	RST45C1E-CAV-104	18.86	14.34	11.79	3/8		7.4		2580		5490
M6KP-0075-CAA-072	RST55C1E-CAA-102	24.00	16.39	13.08	3/8	3/8	20.8		3290		6660
M6KP-0075-CAA-272	RST55C1E-CAA-102	24.00	16.39	13.08	1/4	3/8	20.8		3290		6660
M6KP-0075-CAA-177	RST55C1E-CAA-102	24.00	16.41	13.08	3/8	3/8	20.8		3290		6660
M6KP-0075-CAV-072	RST55C1E-CAV-104	24.00	16.39	13.08	3/8	3/8	9.7		3290		6660
M6KP-0075-CAV-072	RST55C1E-CAV-104	24.00	16.39	13.08	3/8	3/8	9.7		3290		6660
M6KP-0075-CAV-272	RST55C1E-CAV-104	16.39	24.00	13.08	3/8	1/2	9.7		3290		6660
M6KP-0075-CAV-177	RST55C1E-CAV-104	24.00	16.39	13.08	1/4	3/8	9.7		3290		6660
M6GP-H090-CFA-272	RST64C1E-CFA-102	18.84	14.34	12.29	3/8	1/2	20		4010		7580
M6GP-H090-CAV-272	RST64C1E-CAV-102	18.84	14.34	12.29	3/8	1/2	12.3		4010		7580
M6GP-H090-CAV-179	RST64C1E-CAV-102	18.84	14.34	12.29	3/8	1/2	12.3		4010		7580
M6GP-H090-CAV-272	RST64C1E-CAV-102	18.84	14.34	12.29	3/8	1/2	12.3		4010		7580
M6KP-0092-CAV-272	RST64C1E-CAV-102	24.00	16.39	13.08	3/8	3/8	12.4		4050		7750
M6KP-0092-CFA-272	RST64C1E-CFA-102	24.00	16.39	13.08	1/4	3/8	20.3		4050		7750
M6JM-H023-IAA-078	ASE14C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	6.7		1060		2180
M6JM-H023-IAA-078	ASE14C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	6.7		1060		2180
M6JM-H023-IAA-078	ASE14C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	6.7		1060		2180
M6JM-H023-IAA-177	ASE14C4E-IAA-103	14.11	11.45	11.37	1/4	3/8	6.7		1060		2180
M6JM-H023-IAA-179	ASE14C4E-IAA-103	13.91	11.46	9.67	1/4		6.7		1060		2180
M6JM-H023-IAA-177	ASE14C4E-IAA-103	14.11	11.45	11.37	1/4	3/8	6.7		1060		2180
M6JM-H023-IAA-177	ASE14C4E-IAA-103	14.11	11.45	11.37	1/4	3/8	6.7		1060		2180
M6JM-H023-IAA-177	ASE14C4E-IAA-103	14.11	11.45	11.37	1/4	3/8	6.7		1060		2180
M6JM-H023-IAA-177	ASE14C4E-IAA-103	14.11	11.45	11.37	1/4	3/8	6.7		1060		2180
M6JM-H023-IAA-078	ASE14C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	6.7		1060		2180
M6JM-H023-IAA-078	ASE14C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	6.7		1060		2180
M6JM-H023-IAA-177	ASE14C4E-IAA-103	14.11	11.45	11.37	1/4	3/8	6.7		1060		2180
M6JM-H023-IAA-078	ASE14C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	6.7		1060		2180
M6ZM-0032-IAA-179	ASE24C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.6		1340		3080
M6ZM-0032-IAA-272	ASE24C5E-IAA-103	16.58	13.09	11.71	1/4	5/16	8.6		1340		3080
M6QM-H049-IAA-272	ASE39C5E-IAA-103	15.67	12.12	11.37	1/4	5/16	13.4		2490		4250
M6QM-H049-IAA-272	ASE39C5E-IAA-103	15.67	12.12	11.37	1/4	5/16	13.4		2490		4250
M6JM-H043-IAA-177	ASE39C5E-IAA-103	14.39	11.45	11.37	1/4	3/8	13.2				4170
M6JM-H043-IAA-179	ASE39C5E-IAA-103	13.96	11.46	9.67	1/4		13.2				4170
M6QM-H049-IAA-272	ASE39C5E-IAA-103	15.67	12.12	11.37	1/4	5/16	13.4		2490		4250
M6QM-H049-IAA-272	ASE39C5E-IAA-103	15.67	12.12	11.37	1/4	5/16	13.4		2490		4250
M6QM-H049-IAA-272	ASE39C5E-IAA-103	15.67	12.12	11.37	1/4	5/16	13.4		2490		4250
M6QM-H049-IAA-272	ASE39C5E-IAA-103	15.67	12.12	11.37	1/4	5/16	13.4		2490		4250
M6QM-H049-CAV-078	ASE39C5E-CAV-103	15.66	12.01	11.37	1/4	5/16	7.7		2490		4250
M6QM-H049-CAV-078	ASE39C5E-CAV-103	15.66	12.01	11.37	1/4	5/16	7.7		2490		4250
M6QM-H049-CAV-078	ASE39C5E-CAV-103	15.66	12.01	11.37	1/4	5/16	7.7		2490		4250

Copeland to Copeland Cross Reference

Old Model	Compressor Model	Length	Width	Height	Liquid Conn.	Suction Conn.	MCA	Old Rated Capacities			
								LT_134A	LT_404A	MT_134A	MT_404A
M4FH-0050-CAV-212	ASE32C3E-CAV-103	16.06	13.08	11.81	1/4	3/8	6.7				4380
M4FH-0050-CAV-272	ASE32C3E-CAV-103	16.25	13.08	11.67	1/4	3/8	6.7				4380
M4FH-0052-CAV-045	ASE32C3E-CAV-103	28.90	18.20	15.40	5/8	1 1/16	7.3				
M4FH-A036-IAA-020	ASE24C3E-IAA-103						8.4				3370
M4FH-A036-IAA-045	ASE24C3E-IAA-103	24.40	18.60	12.60	5/8	1 1/16	8.4				3370
M4FH-A036-IAA-060	ASE24C3E-IAA-103	16.00	13.30	11.78	1/4	3/8	8.4				3370
M4FH-A036-IAA-103	ASE24C3E-IAA-103	16.06	12.87	11.78	1/4	3/8	8.4				3370
M4FH-A036-IAA-111	ASE24C3E-IAA-103	16.06	12.68	11.78	1/4	3/8	8.4				3370
M4FH-A036-IAA-123	ASE24C3E-IAA-103	16.00	12.90	11.70	1/4	3/8	8.4				3370
M4FH-A036-IAA-141	ASE24C3E-IAA-103	22.94	14.45	11.78	1/4	3/8	8.4				3370
M4FH-A036-IAA-160	ASE24C3E-IAA-103	16.00	13.30	11.78	1/4	3/8	8.4				3370
M4FH-A036-IAA-208	ASE24C3E-IAA-103	16.06	13.07	11.78	1/4	3/8	8.4				3370
M4FH-A036-IAA-212	ASE24C3E-IAA-103	16.06	15.29	11.78	1/4	3/8	8.4				3370
M4FH-A036-IAA-243	ASE24C3E-IAA-103	16.00	15.82	11.91	1/4	3/8	8.4				3370
M4FH-A036-IAA-252	ASE24C3E-IAA-103	16.00	13.10	11.70	1/4	3/8	8.4				3370
M4FH-A036-IAA-272	ASE24C3E-IAA-103	16.30	13.10	11.70	1/4	3/8	8.4				3370
M4FH-A036-IAB-252	ASE24C3E-IAV-103	16.10	13.10	11.70	1/4	3/8	5.7				3370
M4FH-A036-IAV-040	ASE24C3E-IAV-103	17.40	18.10	11.70	5/8	1 1/16	5.9				3370
M4FH-A036-IAV-041	ASE24C3E-IAV-103	16.00	16.10	11.70	1/4	3/8	5.9				3370
M4FH-A036-IAV-043	ASE24C3E-IAV-103	24.40	16.40	12.20	5/8	1 1/16	5.9				3370
M4FH-A036-IAV-103	ASE24C3E-IAV-103	16.06	12.87	11.78	1/4	3/8	5.9				3370
M4FH-A036-IAV-140	ASE24C3E-IAV-103	16.00	16.07	11.78	1/4	3/8	5.9				3370
M4FH-A036-IAV-208	ASE24C3E-IAV-103	16.06	13.07	11.80	1/4	3/8	5.9				3370
M4FH-A036-IAV-212	ASE24C3E-IAV-103	16.06	13.07	11.78	1/4	3/8	5.9				3370
M4FH-A036-IAV-272	ASE24C3E-IAV-103	16.30	13.08	11.73	1/4	3/8	5.9				3370
M4FH-E025-IAA-212	ASE19C3E-IAA-103	13.95	11.81	9.70	1/4	3/8	10.6				
M4FH-E036-IAA-020	ASE24C3E-IAA-103	16.48	13.44	11.70	1/4	3/8	8.1				3200
M4FH-E036-IAA-072	ASE24C3E-IAA-103	16.31	13.08	11.74	1/4	3/8	8.1				3200
M4FH-E036-IAA-212	ASE24C3E-IAA-103	16.18	13.11	11.73	1/4	3/8	8.1				3200
M4FH-E036-IAV-020	ASE24C3E-IAV-103	16.57	13.85	12.05	1/4	3/8	5.8				3200
M4FH-E040-IAA-040	ASE24C3E-IAA-103	19.82	18.56	14.61	3/8	3/8	8.9				
M4FH-E050-CAA-212	ASE32C3E-CAA-103	16.18	13.08	11.73	1/4	3/8	12.1				4300
M4FH-E050-CAV-212	ASE32C3E-CAV-103	16.18	13.08	11.73	1/4	3/8	6.7				4300
M4FL-0033-IAA-017	AFE11C3E-IAA-103	13.90	11.70	9.60	1/4	3/8	7.7		1390		
M4FL-0033-IAA-020	AFE11C3E-IAA-103	13.80	11.80	9.70	1/4	3/8	7.7		1390		
M4FL-0033-IAA-021	AFE11C3E-IAA-103	13.90	11.55	9.98	1/4	5/16	7.7		1390		
M4FL-0033-IAA-022	AFE11C3E-IAA-103	13.90	11.94	9.62	1/4	3/8	7.7		1390		
M4FL-0033-IAA-072	AFE11C3E-IAA-103	14.42	12.80	11.36	1/4	3/8	7.7		1390		
M4FL-0033-IAA-102	AFE11C3E-IAA-103						7.7		1390		
M4FL-0033-IAA-103	AFE11C3E-IAA-103	13.80	11.80	9.70	1/4	3/8	7.7		1390		
M4FL-0033-IAA-111	AFE11C3E-IAA-103	13.80	11.80	9.70	1/4	3/8	7.7		1390		
M4FL-0033-IAA-122	AFE11C3E-IAA-103	13.80	11.30	9.70	1/4	5/16	7.7		1390		
M4FL-0033-IAA-123	AFE11C3E-IAA-103	13.90	11.50	9.70	1/4	3/8	7.7		1390		
M4FL-0033-IAA-149	AFE11C3E-IAA-103	14.02	11.92	9.62	1/4	3/8	7.7		1390		
M4FL-0033-IAA-241	AFE11C3E-IAA-103	13.85	12.05	9.67	1/4	3/8	7.7		1390		
M4FL-0033-IAV-021	AFE11C3E-IAV-103						3.4		1390		
M4FL-0033-IAV-072	AFE11C3E-IAV-103						3.4		1390		
M4FL-0033-IAV-102	AFE11C3E-IAV-103						3.4		1390		
M4FL-0033-IAV-321	AFE11C3E-IAV-103						3.4		1390		
M4FL-0039-IAA-021	AFE13C3E-IAA-103	16.64	12.16	9.73	1/4	3/8	8.9		1980		
M4FL-0039-IAA-221	AFE13C3E-IAA-103	18.19	12.09	10.55	1/4	3/8	8.9		1980		
M4FL-0040-IAA-044	AFE13C3E-IAA-103	24.40	19.60	12.60	5/8	1 1/16	8.9		2040		
M4FL-0040-IAA-103	AFE13C3E-IAA-103	16.06	12.68	11.78	1/4	3/8	8.9		2040		
M4FL-0040-IAA-111	AFE13C3E-IAA-103	16.06	12.52	11.78	1/4	3/8	8.9		2040		
M4FL-0040-IAA-122	AFE13C3E-IAA-103	16.10	12.70	11.70	1/4	5/16	8.9		2040		
M4FL-0040-IAA-208	AFE13C3E-IAA-103	16.06	13.07	11.78	1/4	3/8	8.9		2040		
M4FL-0040-IAA-212	AFE13C3E-IAA-103	16.06	13.07	11.78	1/4	3/8	8.9		2040		
M4FL-0040-IAA-240	AFE13C3E-IAA-103	16.06	13.08	11.78	1/4	5/16	8.9		2040		
M4FL-0040-IAA-270	AFE13C3E-IAA-103	17.47	14.87	11.72	1/4	3/8	8.9		2040		
M4FL-0040-IAA-272	AFE13C3E-IAA-103	16.25	13.08	11.67	1/4	3/8	8.9		2040		
M4FL-0040-IAV-021	AFE13C3E-IAV-103						4.6		2040		
M4FL-0040-IAV-103	AFE13C3E-IAV-103	16.10	13.00	11.70	1/4	3/8	4.6		2040		

New Model	New Compressor Model	New Length	New Width	New Height	New Liquid	New Suction	New MCA	New Rated Capacities			
								LT_134a	LT_404A	MT_134a	MT_404A
M6QM-H049-CAV-078	ASE39C5E-CAV-103	15.66	12.01	11.37	1/4	5/16	7.7		2490		4250
M6QM-H049-CAV-078	ASE39C5E-CAV-103	15.66	12.01	11.37	1/4	5/16	7.7		2490		4250
M6QM-H049-CAV-078	ASE39C5E-CAV-103	15.66	12.01	11.37	1/4	5/16	7.7		2490		4250
M6QM-H031-IAA-078	ASE20C4E-IAA-103	15.39	12.12	11.37	1/4	5/16	8.4		1240		2790
M6ZM-0032-IAA-272	ASE24C5E-IAA-103	16.58	13.09	11.71	1/4	5/16	8.6		1340		3080
M6ZM-0032-IAA-272	ASE24C5E-IAA-103	16.58	13.09	11.71	1/4	5/16	8.6		1340		3080
M6ZM-0032-IAA-177	ASE24C5E-IAA-103	16.58	12.68	11.73	1/4	5/16	8.6		1340		3080
M6ZM-0032-IAA-179	ASE24C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.6		1340		3080
M6ZM-0032-IAA-177	ASE24C5E-IAA-103	16.58	12.68	11.73	1/4	5/16	8.6		1340		3080
M6ZM-0032-IAA-177	ASE24C5E-IAA-103	16.58	12.68	11.73	1/4	5/16	8.6		1340		3080
M6ZM-0032-IAA-272	ASE24C5E-IAA-103	16.58	13.09	11.71	1/4	5/16	8.6		1340		3080
M6ZM-0032-IAA-179	ASE24C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.6		1340		3080
M6ZM-0032-IAA-177	ASE24C5E-IAA-103	16.58	12.68	11.73	1/4	5/16	8.6		1340		3080
M6ZM-0032-IAA-272	ASE24C5E-IAA-103	16.58	13.09	11.71	1/4	5/16	8.6		1340		3080
M6ZM-0032-IAA-272	ASE24C5E-IAA-103	16.58	13.09	11.71	1/4	5/16	8.6		1340		3080
M6ZM-0032-IAA-177	ASE24C5E-IAA-103	16.58	12.68	11.73	1/4	5/16	8.6		1340		3080
M6ZM-0025-IAV-078	ASE20C4E-IAV-103	16.52	13.07	11.71	1/4	5/16	4.4		1240		2910
M6ZM-0025-IAV-078	ASE20C4E-IAV-103	16.52	13.07	11.71	1/4	5/16	4.4		1240		2910
M6ZM-0025-IAV-078	ASE20C4E-IAV-103	16.52	13.07	11.71	1/4	5/16	4.4		1240		2910
M6ZM-0025-IAV-078	ASE20C4E-IAV-103	16.52	13.07	11.71	1/4	5/16	4.4		1240		2910
M6ZM-0025-IAV-177	ASE20C4E-IAV-103	16.58	12.68	11.73	1/4	5/16	4.4		1240		2910
M6ZM-0025-IAV-078	ASE20C4E-IAV-103	16.52	13.07	11.71	1/4	5/16	4.4		1240		2910
M6ZM-0025-IAV-179	ASE20C4E-IAV-103	16.18	13.32	11.73	1/4	5/16	4.4		1240		2910
M6ZM-0025-IAV-177	ASE20C4E-IAV-103	16.58	12.68	11.73	1/4	5/16	4.4		1240		2910
M6ZM-0025-IAV-177	ASE20C4E-IAV-103	16.58	12.68	11.73	1/4	5/16	4.4		1240		2910
M6JM-H023-IAA-078	ASE14C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	6.7		1060		2180
M6JM-H028-CAA-078	ASE20C4E-CAA-103	14.13	12.01	11.37	1/4	3/8	7.5		1230		2730
M6JM-H028-CAA-078	ASE20C4E-CAA-103	14.13	12.01	11.37	1/4	3/8	7.5		1230		2730
M6JM-H028-CAA-078	ASE20C4E-CAA-103	14.13	12.01	11.37	1/4	3/8	7.5		1230		2730
M6ZM-0025-IAV-078	ASE20C4E-IAV-103	16.52	13.07	11.71	1/4	5/16	4.4		1240		2910
M6ZM-0032-IAA-272	ASE24C5E-IAA-103	16.58	13.09	11.71	1/4	5/16	8.6		1340		3080
Obsolete											
M6QM-H049-CAV-078	ASE39C5E-CAV-103	15.66	12.01	11.37	1/4	5/16	7.7		2490		4250
M6JL-H030-IAA-078	AFE11C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	5.9		1240		
M6JL-H030-IAA-078	AFE11C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	5.9		1240		
M6JL-H030-IAA-078	AFE11C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	5.9		1240		
M6JL-H030-IAA-078	AFE11C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	5.9		1240		
M6JL-H030-IAA-078	AFE11C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	5.9		1240		
M6JL-H030-IAA-179	AFE11C4E-IAA-103	13.91	11.46	9.67	1/4		5.9		1240		
M6JL-H030-IAA-177	AFE11C4E-IAA-103	14.11	11.45	11.37	1/4	3/8	5.9		1240		
M6JL-H030-IAA-179	AFE11C4E-IAA-103	13.91	11.46	9.67	1/4		5.9		1240		
M6JL-H030-IAA-179	AFE11C4E-IAA-103	13.91	11.46	9.67	1/4		5.9		1240		
M6JL-H030-IAA-177	AFE11C4E-IAA-103	14.11	11.45	11.37	1/4	3/8	5.9		1240		
M6JL-H030-IAA-177	AFE11C4E-IAA-103	14.11	11.45	11.37	1/4	3/8	5.9		1240		
M6JL-H030-IAA-078	AFE11C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	5.9		1240		
M6JL-0039-IAV-078	AFE17C4E-IAV-103	14.41	12.12	11.37	1/4	3/8	5.6		1620		
M6JL-0039-IAV-078	AFE17C4E-IAV-103	14.41	12.12	11.37	1/4	3/8	5.6		1620		
M6JL-0039-IAV-179	AFE17C4E-IAV-103	13.96	11.46	9.61	1/4	3/8	5.6		1620		
M6JL-0039-IAV-078	AFE17C4E-IAV-103	14.41	12.12	11.37	1/4	3/8	5.6		1620		
M6JL-H048-IAA-272	AFE17C4E-IAA-103	14.41	12.12	11.37	1/4	3/8	10.4		1940		
M6JL-H048-IAA-272	AFE17C4E-IAA-103	14.41	12.12	11.37	1/4	3/8	10.4		1940		
M6ZL-0042-IAA-272	AFE14C5E-IAA-103	16.58	13.09	11.71	1/4	5/16	8.4		1780		
M6ZL-0042-IAA-177	AFE14C5E-IAA-103	16.58	12.68	11.73	1/4	5/16	8.4		1780		
M6ZL-0042-IAA-179	AFE14C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.4		1780		
M6ZL-0042-IAA-179	AFE14C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.4		1780		
M6ZL-0042-IAA-179	AFE14C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.4		1780		
M6ZL-0042-IAA-177	AFE14C5E-IAA-103	16.58	12.68	11.73	1/4	5/16	8.4		1780		
M6ZL-0042-IAA-177	AFE14C5E-IAA-103	16.58	12.68	11.73	1/4	5/16	8.4		1780		
M6ZL-0042-IAA-272	AFE14C5E-IAA-103	16.58	13.09	11.71	1/4	5/16	8.4		1780		
M6ZL-0042-IAA-177	AFE14C5E-IAA-103	16.58	12.68	11.73	1/4	5/16	8.4		1780		
M6ZL-0042-IAV-078	AFE14C5E-IAV-103	16.58	13.09	11.71	1/4	5/16	4.4		1780		
M6ZL-0042-IAV-177	AFE14C5E-IAV-103	16.58	12.68	11.73	1/4	5/16	4.4		1780		

Copeland to Copeland Cross Reference

Old Model	Compressor Model	Length	Width	Height	Liquid Conn.	Suction Conn.	MCA	Old Rated Capacities						
								LT_134A	LT_404A	MT_134A	MT_404A			
M4FL-0040-IAV-121	AFE13C3E-IAV-103						4.6				2040			
M4FL-0040-IAV-212	AFE13C3E-IAV-103	16.06	13.07	11.78	1/4	3/8	4.6				2040			
M4FL-0040-IAV-272	AFE13C3E-IAV-103	16.25	13.08	11.67	1/4	3/8	4.6				2040			
M4FL-0049-IAA-141	AFE13C3E-IAA-103	20.77	15.16	11.85	1/4	1/4	9.7				2030			
M4FL-0074-CFA-214	RST80C1E-PFA-150	17.38	14.39	12.10	1/4	1/2	24.5				4570			
M4FL-0094-CFA-141	RFT42C1E-PFA-102	17.80	15.30	12.00	1/4	3/8	21.1				4640			
M4FL-0094-CFV-141	RFT42C1E-PFV-102	17.76	14.39	12.00	1/4	1/2	11				4640			
M4FL-A053-IAA-140	RFT22C1E-IAA-102	16.80	13.90	11.70	1/4	3/8	11.7				2540			
M4FL-A067-CAA-103	RFT26C1E-CAA-102	17.40	14.00	11.80	1/4	1/2	15.1				3170			
M4FL-A067-CAA-111	RFT26C1E-CAA-102	17.80	14.00	11.80	1/4	1/2	15.1				3170			
M4FL-A067-CAA-212	RFT26C1E-CAA-102	17.80	14.00	11.80	1/4	1/2	15.1				3170			
M4FL-A067-CAA-240	RFT26C1E-CAA-102	17.80	14.50	11.80	1/4	3/8	15.1				3170			
M4FL-A067-CAA-252	RFT26C1E-CAA-102	17.38	14.38	11.82	1/4	1/2	15.1				3170			
M4FL-A067-CAA-272	RFT26C1E-CAA-102	17.70	14.50	11.80	1/4	1/2	15.1				3170			
M4FL-A067-CAV-141	RFT26C1E-CAV-104	21.40	15.20	11.90	1/4	3/8	9				3170			
M4FL-A067-CAV-212	RFT26C1E-CAV-104	17.80	14.50	11.80	1/4	1/2	9				3170			
M4FL-A067-CAV-272	RFT26C1E-CAV-104	17.70	14.50	11.80	1/4	1/2	9				3170			
M4FL-A067-IAA-044	RFT26C1E-IAA-102	26.40	19.10	12.60	5/8	1 1/16	15.1				3170			
M4FL-A067-IAA-045	RFT26C1E-IAA-102	26.37	19.05	12.61	5/8		15.1				3170			
M4FL-A070-CAA-172	RFT29C1E-CAA-102	17.38	14.46	11.82	1/4	3/8	18				3610			
M4FL-H025-IAA-020	AFE08C4E-IAA-103	13.98	11.80	9.60	1/4	3/8	5.6				876			
M4FL-H025-IAA-072	AFE08C4E-IAA-103	14.50	12.80	11.40	1/4	3/8	5.6				876			
M4FL-H025-IAA-121	AFE08C4E-IAA-103						5.6				876			
M4FL-H025-IAA-122	AFE08C4E-IAA-103	13.94	11.48	9.67	1/4	5/16	5.6				876			
M4FL-H025-IAA-123	AFE08C4E-IAA-103						5.6				876			
M4FL-H025-IAA-141	AFE08C4E-IAA-103	14.02	11.92	9.62	1/4	3/8	5.6				876			
M4FL-H025-IAA-160	AFE08C4E-IAA-103						5.6				876			
M4FL-H033-IAA-121	AFE11C4E-IAA-103						6				1260			
M4FL-H033-IAA-149	AFE11C4E-IAA-103	14.00	11.90	9.60	1/4	3/8	6				1260			
M4FL-H038-IAA-121	AFE13C4E-IAA-103	15.60	11.80	9.70	1/4	5/16	7.5							
M4FL-H039-IAA-160	AFE13C4E-IAA-103						7.5				1610			
M4FL-H047-IAA-121	AFE17C4E-IAA-103	15.60	11.82	9.65	1/4	5/16	10.3				2040			
M4FL-H047-IAA-160	AFE17C4E-IAA-103						10.3				2040			
M4FL-H048-IAA-221	AFE17C4E-IAA-103	18.20	12.10	10.50	1/4	3/8	10.6				2050			
M4FL-H050-IAA-140	AFE17C4E-IAA-103	16.06	13.08	11.73	1/4	5/16	10.6				2160			
M4FL-H050-IAA-141	AFE17C4E-IAA-103	16.10	12.70	11.70	3/8	3/8	10.6				2160			
M4FL-H051-IAA-103	AFE17C4E-IAA-103	17.38	12.93	11.87	1/4	3/8	11.5				2150			
M4FL-H051-IAA-141	AFE17C4E-IAA-103	17.38	13.19	11.87	1/4	3/8	11.5				2150			
M4FL-H051-IAA-212	AFE17C4E-IAA-103	17.38	13.07	11.87	1/4	3/8	11.5				2150			
M4FL-H051-IAA-252	AFE17C4E-IAA-103	17.38	13.13	11.81	1/4	3/8	11.5				2150			
M4FL-H051-IAA-272	AFE17C4E-IAA-103	16.60	13.10	11.90	1/4	3/8	11.5				2150			
M4FL-H051-IAV-272	AFE17C4E-IAV-103						6				2150			
M4FL-H052-IAA-146	AFE17C4E-IAA-103	17.38	13.08	11.73	1/4	3/8	10.4				2110			
M4FL-H055-IAA-2H7	AFE17C4E-IAA-103	30.23	24.03	22.61	1/4	1/2	11.5							
M4FM-E022-IAA-212	ASE12C4E-IAA-103	13.98	11.80	9.60	1/4	3/8	5.4						1640	
M4FM-H022-IAA-111	ASE12C4E-IAA-103						5.5						1640	
M4FM-H022-IAA-122	ASE12C4E-IAA-103	13.97	11.47	9.67	1/4	5/16	5.5						1640	
M4FM-H022-IAA-212	ASE12C4E-IAA-103	13.98	11.80	9.60	1/4	3/8	5.5						1640	
M4FM-H022-IAA-272	ASE12C4E-IAA-103	14.50	12.70	11.40	1/4	3/8	5.5						1640	
M4FM-H030-IAA-060	ASE20C4E-IAA-103						8.4							
M4PF-0050-IAA-140	RST40C1E-IAA-104						12.1							
M4PH-0025-IAA-060	ASE19C3E-IAA-103	25.54	11.26	10.46	1/4	3/8	10.7						2430	
M4PH-0025-IAA-111	ASE19C3E-IAA-103	19.88	11.00	10.52	1/4	3/8	10.7						2430	
M4PH-0025-IAA-146	ASE19C3E-IAA-103	19.88	11.65	10.49	1/4	5/16	10.7						2430	
M4PH-0025-IAA-147	ASE19C3E-IAA-103	19.88	11.19	10.52	1/4	3/8	10.7						2430	
M4PH-0025-IAA-208	ASE19C3E-IAA-103	19.88	11.06	10.52	1/4	3/8	10.7						2430	
M4PH-0025-IAA-212	ASE19C3E-IAA-103	19.88	11.06	10.52	1/4	3/8	10.7						2430	
M4PH-0049-CAA-208	ASE32C3E-CAA-103						12.3						4210	
M4PH-A035-IAA-060	ASE24C3E-IAA-103	25.65	11.18	10.55	1/4	3/8	8.4						3100	
M4PH-A035-IAA-111	ASE24C3E-IAA-103	19.88	11.00	10.52	1/4	3/8	8.4						3100	
M4PH-A035-IAA-146	ASE24C3E-IAA-103	19.88	11.08	10.46	1/4	5/16	8.4						3100	
M4PH-A035-IAA-212	ASE24C3E-IAA-103	20.00	11.14	10.52	1/4	3/8	8.4						3100	

New Model	New Compressor Model	New Length	New Width	New Height	New Liquid	New Suction	New MCA	New Rated Capacities			
								LT_134a	LT_404A	MT_134a	MT_404A
M6ZL-0042-IAV-179	AFE14C5E-IAV-103	16.18	13.32	11.73	1/4	5/16	4.4		1780		
M6ZL-0042-IAV-177	AFE14C5E-IAV-103	16.58	12.68	11.73	1/4	5/16	4.4		1780		
M6ZL-0042-IAV-177	AFE14C5E-IAV-103	16.58	12.68	11.73	1/4	5/16	4.4		1780		
M6GL-H057-IAA-272	AFE17C4E-IAA-103	18.10	14.34	11.83	1/4	3/8	11.5		2130		
M6ZP-H090-CFA-272	RST80C1E-PFA-150	17.31	13.82	12.29	3/8	3/8	23.6		4280		7680
M6ZP-H090-CFA-272	RST80C1E-PFA-150	17.31	13.82	12.29	3/8	3/8	23.6		4280		7680
M6GP-H103-CFV-272	RST80C1E-PFV-150	18.83	14.34	12.29	3/8	1/2	12.6		4670		8880
M6ZL-H064-IAA-179	RFT22C1E-IAA-102	16.60	14.15	11.71	1/4		10.9		2660		
M6GL-H079-CAA-177	RFT26C1E-CAA-102	18.86	14.34	11.79	3/8		15.1		3280		
M6GL-H079-CAA-179	RFT26C1E-CAA-102	18.10	14.34	11.79	1/4		15.1		3280		
M6GL-H079-CAA-177	RFT26C1E-CAA-102	18.86	14.34	11.79	3/8		15.1		3280		
M6GL-H079-CAA-177	RFT26C1E-CAA-102	18.86	14.34	11.79	3/8		15.1		3280		
M6GL-H079-CAA-272	RFT26C1E-CAA-102	18.86	14.34	11.79	3/8		15.1		3280		
M6GL-H079-CAA-177	RFT26C1E-CAA-102	18.86	14.34	11.79	3/8		15.1		3280		
M6GL-H079-CAV-177	RFT26C1E-CAV-104	18.86	14.34	11.79	3/8		9		3280		
M6GL-H079-CAV-177	RFT26C1E-CAV-104	18.86	14.34	11.79	3/8		9		3280		
M6GL-H079-CAV-177	RFT26C1E-CAV-104	18.86	14.34	11.79	3/8		9		3280		
M6ZL-0078-IAA-272	RFT26C1E-IAA-102	17.36	13.67	11.71	3/8	3/8	14.3		3130		
M6ZL-0078-IAA-272	RFT26C1E-IAA-102	17.36	13.67	11.71	3/8	3/8	14.3		3130		
M6GP-H090-CFA-177	RST64C1E-CFA-102	18.82	14.34	12.29	3/8		20		4010		7580
M6JL-0021-IAA-078	AFE08C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	5.5		872		
M6JL-0021-IAA-078	AFE08C4E-IAA-103	14.13	12.12	11.37	1/4	3/8	5.5		872		
M6JL-0021-IAA-179	AFE08C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.5		872		
M6JL-0021-IAA-179	AFE08C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.5		872		
M6JL-0021-IAA-179	AFE08C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.5		872		
M6JL-0021-IAA-177	AFE08C4E-IAA-103	14.10	11.45	11.37	1/4	5/16	5.5		872		
M6JL-0021-IAA-179	AFE08C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.5		872		
M6JL-H030-IAA-179	AFE11C4E-IAA-103	13.91	11.46	9.67	1/4		5.9		1240		
M6JL-H030-IAA-177	AFE11C4E-IAA-103	14.11	11.45	11.37	1/4	3/8	5.9		1240		
M6JL-H041-IAA-177	AFE14C5E-IAA-103	14.39	11.57	11.37	1/4	3/8	8.2		1730		
M6JL-H041-IAA-177	AFE14C5E-IAA-103	14.39	11.57	11.37	1/4	3/8	8.2		1730		
M6JL-H052-IAA-177	AFE20C5E-IAA-103	14.39	11.45	11.37	1/4	3/8	8.5		2240		
M6JL-H052-IAA-179	AFE20C5E-IAA-103	13.96	11.46	9.67	1/4		8.5		2240		
M6JL-H052-IAA-272	AFE20C5E-IAA-103	14.41	12.12	11.37	1/4	3/8	8.5		2240		
M6JL-H052-IAA-179	AFE20C5E-IAA-103	13.96	11.46	9.67	1/4		8.5		2240		
M6JL-H052-IAA-179	AFE20C5E-IAA-103	13.96	11.46	9.67	1/4		8.5		2240		
M6ZL-0055-IAA-177	AFE20C5E-IAA-103	16.58	12.68	11.73	1/4	5/16	8.8		2350		
M6ZL-0055-IAA-177	AFE20C5E-IAA-103	16.58	12.68	11.73	1/4	5/16	8.8		2350		
M6ZL-0055-IAA-177	AFE20C5E-IAA-103	16.58	12.68	11.73	1/4	5/16	8.8		2350		
M6ZL-0055-IAA-272	AFE20C5E-IAA-103	16.58	13.09	11.71	1/4	5/16	8.8		2350		
M6ZL-0055-IAA-177	AFE20C5E-IAA-103	16.58	12.68	11.73	1/4	5/16	8.8		2350		
M6ZL-0055-IAV-177	AFE20C5E-IAV-103	16.58	12.68	11.73	1/4	5/16	6		2350		
M6ZL-0055-IAA-179	AFE20C5E-IAA-103	16.18	13.32	11.73	1/4	5/16	8.8		2350		
M6ZL-0055-IAA-177	AFE20C5E-IAA-103	16.58	12.68	11.73	1/4	5/16	8.8		2350		
M6JM-0017-IAA-177	ASE12C4E-IAA-103	14.10	11.45	11.37	1/4	5/16	5.4		785		1620
M6JM-0017-IAA-179	ASE12C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.4		785		1620
M6JM-0017-IAA-179	ASE12C4E-IAA-103	13.91	11.46	9.61	1/4	3/8	5.4		785		1620
M6JM-0017-IAA-177	ASE12C4E-IAA-103	14.10	11.45	11.37	1/4	5/16	5.4		785		1620
M6JM-0017-IAA-177	ASE12C4E-IAA-103	14.10	11.45	11.37	1/4	5/16	5.4		785		1620
M6ZM-0031-IAA-272	ASE20C4E-IAA-103	16.52	13.07	11.71	1/4	5/16	8.4		1200		2810
M6JM-H043-IAA-177	ASE39C5E-IAA-103	14.39	11.45	11.37	1/4	3/8	13.2				4170
M6PM-0023-IAA-078	ASE14C4E-IAA-103	19.90	11.16	10.65	1/4	5/16	6.7		1060		2180
M6PM-0023-IAA-179	ASE14C4E-IAA-103	19.88	11.02	10.48	1/4	5/16	6.6		1060		2180
M6PM-0023-IAA-179	ASE14C4E-IAA-103	19.88	11.02	10.48	1/4	5/16	6.6		1060		2180
M6PM-0023-IAA-177	ASE14C4E-IAA-103	19.88	11.06	10.65	1/4	5/16	6.7		1060		2180
M6PM-0023-IAA-179	ASE14C4E-IAA-103	19.88	11.02	10.48	1/4	5/16	6.6		1060		2180
M6PM-0023-IAA-177	ASE14C4E-IAA-103	19.88	11.06	10.65	1/4	5/16	6.7		1060		2180
M6ZM-H054-IAA-272	ASE39C5E-IAA-103	16.58	13.09	11.70	1/4	5/16	13.4		2570		4680
M6PM-0030-IAA-272	ASE24C5E-IAA-103	19.86	11.16	11.16	1/4	5/16	8.4		1290		2890
M6PM-0030-IAA-179	ASE24C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	8.4		1290		2890
M6PM-0030-IAA-179	ASE24C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	8.4		1290		2890
M6PM-0030-IAA-177	ASE24C5E-IAA-103	19.88	11.06	11.16	1/4	5/16	8.4		1290		2890

Copeland to Copeland Cross Reference

Old Model	Compressor Model	Length	Width	Height	Liquid Conn.	Suction Conn.	MCA	Old Rated Capacities			
								LT_134A	LT_404A	MT_134A	MT_404A
M4PH-A035-IAV-208	ASE24C3E-IAV-103	20.00	11.01	10.52	1/4	3/8	5.9				3100
M4PH-A035-IAV-212	ASE24C3E-IAV-103	20.00	11.18	10.52	1/4	3/8	5.9				3100
M4PH-E025-IAA-147	ASE19C3E-IAA-103	19.88	11.08	10.52	1/4	3/8	10.6				
M4PL-0033-IAA-020	AFE11C3E-IAA-103	19.88	11.06	10.52	1/4	3/8	7.7		1390		
M4PL-0039-IAA-103	AFE13C3E-IAA-103	19.88	11.10	10.52	1/4	3/8	8.9		1980		
M4PL-0039-IAA-111	AFE13C3E-IAA-103	19.88	11.00	10.52	1/4	3/8	8.9		1980		
M4PL-0039-IAA-141	AFE13C3E-IAA-103	20.10	11.60	10.40	1/4	5/16	8.9		1980		
M4PL-0039-IAA-208	AFE13C3E-IAA-103	20.00	11.10	10.52	1/4	3/8	8.9		1980		
M4PL-0039-IAA-212	AFE13C3E-IAA-103	20.00	11.14	10.52	1/4	3/8	8.9		1980		
M4PL-H050-IAA-103	AFE17C4E-IAA-103	19.88	11.08	10.55	1/4	3/8	10.6		2140		
M4PL-H050-IAA-121	AFE17C4E-IAA-103	19.88	11.79	10.49	1/4	5/16	10.6		2140		
M4PL-H050-IAA-122	AFE17C4E-IAA-103	19.88	11.80	10.52	1/4	5/16	10.6		2140		
M4PL-H050-IAA-123	AFE17C4E-IAA-103						10.6		2140		
M4PL-H050-IAA-124	AFE17C4E-IAA-103	19.88	11.21	10.52	1/4	5/16	10.6		2140		
M4PL-H050-IAA-140	AFE17C4E-IAA-103	19.88	11.83	10.46	1/4	5/16	10.6		2140		
M4PL-H050-IAA-141	AFE17C4E-IAA-103	19.88	11.00	10.55	1/4	5/16	10.6		2140		
M4PL-H050-IAA-146	AFE17C4E-IAA-103	19.88	11.08	10.46	1/4	5/16	10.6		2140		
M4PL-H050-IAA-160	AFE17C4E-IAA-103	19.88	11.08	10.94	1/4	5/16	10.6		2140		
M4PL-H050-IAA-212	AFE17C4E-IAA-103	19.88	11.17	10.46	1/4	3/8	10.6		2140		
M4PL-H050-IAA-240	AFE17C4E-IAA-103	19.88	11.08	10.46	1/4	5/16	10.6		2140		
M4PL-H050-IAA-241	AFE17C4E-IAA-103	19.88	11.17	10.46	1/4	5/16	10.6		2140		
M4PL-H050-IAV-122	AFE17C4E-IAV-103						5.6		2140		
M4PL-M035-IAA-144	AFE13C3E-IAA-103	19.88	11.06	10.52	1/4	5/16	8.9		1960		
M4PL-M035-IAA-215	AFE13C3E-IAA-103	20.00	11.00	10.60	1/4	5/16	8.9		1960		
M4PM-E022-IAA-122	ASE12C4E-IAA-103	19.88	11.08	10.52	1/4	3/8	5.4			1640	
M4PM-H022-IAA-040	ASE12C4E-IAA-103	19.90	11.30	10.50	1/4	5/16	5.5			1640	
M4PM-H022-IAA-122	ASE12C4E-IAA-103	19.90	11.20	10.50	1/4	5/16	5.5			1640	
M4PM-H050-IAA-212	ASE35C4E-IAA-103	19.88	11.15	10.46	1/4	3/8	15.9				
M4SL-0033-IAA-140	AFE11C3E-IAA-103	13.64	10.74	9.62	3/8	3/8	7.7		1210		
M4TL-E034-IAA-108	AFE13C4E-IAA-103						7.6				
M4TL-H025-IAA-108	AFE08C4E-IAA-103	19.00	8.50	10.50	1/4	5/16	5.8		860		
M4TL-H025-IAA-118	AFE08C4E-IAA-103	19.00	9.40	10.50	1/4	5/16	5.8		860		
M4TL-H025-IAA-908	AFE08C4E-IAA-103	19.00	8.50	10.50	1/4	5/16	5.8		860		
M4TL-H025-IAA-918	AFE08C4E-IAA-103	19.00	9.40	10.50	1/4	5/16	5.8		860		
M4TL-H033-IAA-108	AFE11C4E-IAA-103	19.00	8.50	10.50	1/4	5/16	6.1		1120		
M4TL-H033-IAA-118	AFE11C4E-IAA-103	19.00	9.40	10.50	1/4	5/16	6.1		1120		
M4TL-H033-IAA-122	AFE11C4E-IAA-103						6.1		1120		
M4TL-H033-IAA-908	AFE11C4E-IAA-103	19.00	8.50	10.50	1/4	5/16	6.1		1120		
M4TL-H033-IAA-918	AFE11C4E-IAA-103	19.00	9.40	10.50	1/4	5/16	6.1		1120		
M4TL-H034-IAA-108	AFE13C4E-IAA-103	19.00	8.50	10.50	1/4	5/16	7.9		1420		
M4TL-H034-IAA-118	AFE13C4E-IAA-103	19.00	9.40	10.50	1/4	5/16	7.9		1420		
M4TL-H034-IAA-122	AFE13C4E-IAA-103						7.9		1420		
M4TL-H034-IAA-160	AFE13C4E-IAA-103	19.00	9.40	10.50	1/4	3/8	7.9		1420		
M4TL-H034-IAA-908	AFE13C4E-IAA-103	19.00	8.50	10.50	1/4	5/16	7.9		1420		
M4TL-H034-IAA-918	AFE13C4E-IAA-103	19.00	9.40	10.50	1/4	5/16	7.9		1420		
M4TM-0033-IAA-108	ASE24C3E-IAA-103	19.00	8.50	10.50	1/4	5/16	8.4			2520	
M4TM-0033-IAA-118	ASE24C3E-IAA-103	19.00	9.40	10.50	1/4	5/16	8.4			2520	
M4TM-0033-IAA-121	ASE24C3E-IAA-103						8.4			2520	
M4TM-0033-IAA-908	ASE24C3E-IAA-103	19.00	8.50	10.50	1/4	5/16	8.4			2520	
M4TM-0033-IAA-918	ASE24C3E-IAA-103	19.00	9.40	10.50	1/4	5/16	8.4			2520	
M4TM-0033-IAV-108	ASE24C3E-IAV-103	19.00	8.50	10.50	1/4	5/16	5.9			2520	
M4TM-0033-IAV-118	ASE24C3E-IAV-103	19.00	9.40	10.50	1/4	5/16	5.9			2520	
M4TM-0033-IAV-121	ASE24C3E-IAV-103						5.9			2520	
M4TM-0033-IAV-908	ASE24C3E-IAV-103	19.00	8.50	10.50	1/4	5/16	5.9			2520	
M4TM-0033-IAV-918	ASE24C3E-IAV-103	19.00	9.40	10.50	1/4	5/16	5.9			2520	
M4TM-H020-IAA-108	ASE12C4E-IAA-103						5.6			1580	
M4TM-H020-IAA-117	ASE12C4E-IAA-103	19.00	9.40	10.50	1/4	3/8	5.6			1580	
M4TM-H020-IAA-118	ASE12C4E-IAA-103	19.00	9.50	10.50	1/4	5/16	5.6			1580	
M4TM-H020-IAA-121	ASE12C4E-IAA-103						5.6			1580	
M4TM-H020-IAA-908	ASE12C4E-IAA-103						5.6			1580	
M4TM-H020-IAA-918	ASE12C4E-IAA-103	19.00	9.50	10.50	1/4	5/16	5.6			1580	
M4TM-H025-IAA-108	ASE20C4E-IAA-103	19.00	8.50	10.50	1/4	5/16	8.4			2300	

New Model	New Compressor Model	New Length	New Width	New Height	New Liquid	New Suction	New MCA	New Rated Capacities			
								LT_134a	LT_404A	MT_134a	MT_404A
M6PM-0030-IAA-272	ASE24C5E-IAA-103	19.88	11.06	11.16	1/4	5/16	8.4		1290		2890
M6PM-0030-IAA-177	ASE24C5E-IAA-103	19.88	11.06	11.16	1/4	5/16	8.4		1290		2890
M6PM-0023-IAA-177	ASE14C4E-IAA-103	19.88	11.06	10.65	1/4	5/16	6.7		1060		2180
M6PL-0030-IAA-078	AFE11C4E-IAA-103	19.90	11.16	10.65	1/4	5/16	5.9		1240		
M6PL-0041-IAA-177	AFE14C5E-IAA-103	19.88	11.06	11.16	1/4	5/16	8.2		1730		
M6PL-0041-IAA-179	AFE14C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	8.2		1730		
M6PL-0041-IAA-179	AFE14C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	8.2		1730		
M6PL-0041-IAA-272	AFE14C5E-IAA-103	19.86	11.16	11.16	1/4	5/16	8.2		1730		
M6PL-0041-IAA-177	AFE14C5E-IAA-103	19.88	11.06	11.16	1/4	5/16	8.2		1730		
M6PL-0052-IAA-179	AFE20C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	8.5		2240		
M6PL-0052-IAA-177	AFE20C5E-IAA-103	19.88	11.06	11.16	1/4	5/16	8.5		2240		
M6PL-0052-IAA-177	AFE20C5E-IAA-103	19.88	11.06	11.16	1/4	5/16	8.5		2240		
M6PL-0052-IAA-177	AFE20C5E-IAA-103	19.88	11.06	11.16	1/4	5/16	8.5		2240		
M6PL-0052-IAA-179	AFE20C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	8.5		2240		
M6PL-0052-IAA-177	AFE20C5E-IAA-103	19.88	11.06	11.16	1/4	5/16	8.5		2240		
M6PL-0052-IAA-179	AFE20C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	8.5		2240		
M6PL-0052-IAA-179	AFE20C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	8.5		2240		
M6PL-0052-IAA-177	AFE20C5E-IAA-103	19.88	11.06	11.16	1/4	5/16	8.5		2240		
M6PL-0052-IAA-177	AFE20C5E-IAA-103	19.88	11.06	11.16	1/4	5/16	8.5		2240		
M6PL-0052-IAA-179	AFE20C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	8.5		2240		
M6PL-0052-IAA-179	AFE20C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	8.5		2240		
M6PL-0052-IAA-177	AFE20C5E-IAA-103	19.88	11.06	11.16	1/4	5/16	8.5		2240		
M6PL-0052-IAA-177	AFE20C5E-IAA-103	19.88	11.06	11.16	1/4	5/16	8.5		2240		
M6PL-0052-IAA-272	AFE20C5E-IAA-103	19.88	11.06	11.16	1/4	5/16	8.5		2240		
M6PL-H056-IAV-078	AFE20C5E-IAV-103	19.88	11.21	11.14	1/4	5/16	6		2280		
M6PL-0041-IAA-179	AFE14C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	8.2		1730		
M6PL-0041-IAA-179	AFE14C5E-IAA-103	19.88	11.02	10.48	1/4	5/16	8.2		1730		
M6PM-0020-IAA-177	ASE12C4E-IAA-103	19.88	11.06	10.65	1/4	5/16	5.4		855		1880
M6PM-0020-IAA-078	ASE12C4E-IAA-103	19.90	11.16	10.65	1/4	5/16	5.4		855		1880
M6PM-0020-IAA-177	ASE12C4E-IAA-103	19.88	11.06	10.65	1/4	5/16	5.4		855		1880
M6ZM-H054-IAA-272	ASE39C5E-IAA-103	16.58	13.09	11.70	1/4	5/16	13.4		2570		4680
M6JL-H030-IAA-179	AFE11C4E-IAA-103	13.91	11.46	9.67	1/4		5.9		1240		
M6TL-0037-IAA-108	AFE13C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	7.7		1580		
M6TL-0022-IAA-108	AFE08C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	5.5		927		
M6TL-0022-IAA-118	AFE08C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	5.5		927		
M6TL-0022-IAA-108	AFE08C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	5.5		927		
M6TL-0022-IAA-118	AFE08C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	5.5		927		
M6TL-0029-IAA-108	AFE11C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	5.9		1220		
M6TL-0029-IAA-118	AFE11C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	5.9		1220		
M6TL-0029-IAA-108	AFE11C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	5.9		1220		
M6TL-0029-IAA-108	AFE11C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	5.9		1220		
M6TL-0029-IAA-118	AFE11C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	5.9		1220		
M6TL-0037-IAA-108	AFE13C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	7.7		1580		
M6TL-0037-IAA-118	AFE13C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	7.7		1580		
M6TL-0037-IAA-108	AFE13C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	7.7		1580		
M6TL-0037-IAA-118	AFE13C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	7.7		1580		
M6TL-0037-IAA-118	AFE13C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	7.7		1580		
M6TM-0022-IAA-108	ASE14C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	6.7		1040		2120
M6TM-0022-IAA-118	ASE14C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	6.7		1040		2120
M6TM-0022-IAA-108	ASE14C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	6.7		1040		2120
M6TM-0022-IAA-108	ASE14C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	6.7		1040		2120
M6TM-0022-IAA-118	ASE14C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	6.7		1040		2120
M6TM-0032-IAV-108	ASE28C5E-IAV-103	19.04	8.47	10.53	1/4	5/16	5.6		1840		3260
M6TM-0032-IAV-118	ASE28C5E-IAV-103	19.00	9.41	10.53		5/16	5.6		1840		3260
M6TM-0032-IAV-108	ASE28C5E-IAV-103	19.04	8.47	10.53	1/4	5/16	5.6		1840		3260
M6TM-0032-IAV-108	ASE28C5E-IAV-103	19.04	8.47	10.53	1/4	5/16	5.6		1840		3260
M6TM-0032-IAV-118	ASE28C5E-IAV-103	19.00	9.41	10.53		5/16	5.6		1840		3260
M6TM-0020-IAA-108	ASE12C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	5.4		841		1830
M6TM-0020-IAA-117	ASE12C4E-IAA-103	19.00	9.41	10.53	1/4	3/8	5.4		841		1830
M6TM-0020-IAA-118	ASE12C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	5.4		841		1830
M6TM-0020-IAA-108	ASE12C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	5.4		841		1830
M6TM-0020-IAA-108	ASE12C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	5.4		841		1830
M6TM-0020-IAA-118	ASE12C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	5.4		841		1830
M6TM-0022-IAA-108	ASE14C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	6.7		1040		2120

Copeland to Copeland Cross Reference

Old Model	Compressor Model	Length	Width	Height	Liquid Conn.	Suction Conn.	MCA	Old Rated Capacities			
								LT_134A	LT_404A	MT_134A	MT_404A
M4TM-H025-IAA-117	ASE20C4E-IAA-103	19.00	9.40	10.50	1/4	3/8	8.4				2300
M4TM-H025-IAA-118	ASE20C4E-IAA-103	19.00	9.40	10.50	1/4	5/16	8.4				2300
M4TM-H025-IAA-121	ASE20C4E-IAA-103						8.4				2300
M4TM-H025-IAA-908	ASE20C4E-IAA-103	19.00	8.50	10.50	1/4	5/16	8.4				2300
M4TM-H025-IAA-918	ASE20C4E-IAA-103	19.00	9.40	10.50	1/4	5/16	8.4				2300
M4WF-C056-IAA-020	RST45C1E-IAA-108	17.40	12.70	10.50	1/4	5/8	13.1		2440		5890
M4WF-C056-IAA-040	RST45C1E-IAA-108	18.11	12.67	10.71	1/4	5/8	13.1				
M4WF-C056-IAV-020	RST45C1E-IAV-109	17.40	12.70	10.50	1/4	5/8	6.6		2440		5890
M4WF-C075-CAA-020	RST55C1E-CAA-108	24.00	16.10	10.70	3/8	5/8	18.8		3230		7560
M4WF-C075-CAV-020	RST55C1E-CAV-109	24.00	16.10	10.70	3/8	5/8	8.5		3230		7560
M4WH-C025-IAA-020	ASE19C3E-IAA-103	17.90	12.77	8.97	1/4	3/8	10			2790	
M4WH-C036-IAA-020	ASE24C3E-IAA-103	17.90	12.77	8.76	1/4	3/8	7.5			3520	
M4WH-C036-IAV-020	ASE24C3E-IAV-103	17.90	12.77	8.76	1/4	3/8	5.3			3520	
M4WH-C050-CAA-020	ASE32C3E-CAA-103	17.90	12.77	9.26	1/4	3/8	11.5			5130	
M4WH-C050-CAV-020	ASE32C3E-CAV-103	17.90	12.77	9.26	1/4	3/8	6.1			5130	
M4WL-C033-IAA-020	AFE11C3E-IAA-103	24.00	16.41	9.51	1/4	3/8	7.7		1370		
M4WL-C040-IAA-020	AFE13C3E-IAA-103	24.00	16.41	9.51	1/4	3/8	8.7		1970		
M4WL-C075-CFA-020	RST64C1E-CFA-108	24.00	16.40	10.70	3/8	5/8	19		4100		
M4WL-C075-IAV-020	RST64C1E-IAV-108	24.00	16.40	10.70	3/8	5/8	11.8		4100		
M4WL-D067-CAA-020	RFT26C1E-CAA-102	24.00	16.40	9.90	1/4	1/2	14.1		3290		
M4WL-H025-IAA-020	AFE08C4E-IAA-103	24.00	16.40	9.51	1/4	3/8	5.6		900		
M4WL-H051-IAA-020	AFE17C4E-IAA-103	24.00	16.41	9.51	1/4	3/8	10.4		2140		
MBAH-0075-CFA-020	RRT81C1-PFA-199	24.00	17.50	13.10	3/8	5/8	18.3				
MBAH-0075-CFV-020	RRT81C1-PFV-199	24.00	17.50	13.10	3/8	5/8	9.3				
MBAM-0050-IAA-212	RRT64C1-IAA-198	16.20	13.70	11.70	1/4	1/2	14.6				
MBAM-0050-IAV-212	RRT64C1-IAV-198	16.00	13.68	11.74	1/4	1/2	8.6				
MBAM-0075-CFA-020	RRT10K1-PFA-199	24.00	17.50	13.07	3/8	5/8	19				
MBAM-0075-CFV-020	RRT10K1-PFV-199	24.00	17.50	13.10	3/8	5/8	11.2				
MBFH-0050-IAA-103	ART62C1-IAA-103	17.90	13.10	11.80	1/4	3/8	13.8				
MBFH-0050-IAA-109	ART62C1-IAA-103	17.90	13.10	11.80	1/4	3/8	13.8				
MBFH-0050-IAA-201	ART62C1-IAA-103	16.20	13.10	11.80	1/4	3/8	13.8				
MBFH-0050-IAA-272	ART62C1-IAA-103	16.30	13.08	11.67	1/4	1/2	13.8				
MBFH-A026-IAA-103	ARE27C3-IAA-103	13.80	11.50	9.70	1/4	3/8	6.9				
MBFH-A049-CAA-272	ARE51C4-CAA-199	16.30	13.10	11.70	1/4	3/8	14				
MBFH-A050-IAA-272	RRT62C1-IAA-199	16.60	13.70	11.70	1/4	3/8	12.8				
MBFH-B026-IAA-072	ARE29C4-IAA-199	14.40	12.90	11.40	1/4	3/8	7.4				
MBFH-B026-IAA-103	ARE29C4-IAA-199	13.90	11.50	9.70	1/4	3/8	7.4				
MBFH-B026-IAA-111	ARE29C4-IAA-199	13.90	11.30	9.70	1/4	3/8	7.4				
MBFL-0034-IAA-020	AFT12C1-IAA-103	16.00	12.40	9.60	1/4	3/8	7				
MBFL-0034-IAA-103	AFT12C1-IAA-103	16.20	12.40	9.70	1/4	3/8	7				
MBFL-0034-IAA-111	AFT12C1-IAA-103	16.00	12.30	9.70	1/4	3/8	7				
MBFL-A034-IAA-020	AFE12C4-IAA-199	16.00	12.40	9.60	1/4	3/8	8.7				
MBFL-A034-IAA-103	AFE12C4-IAA-199	16.20	12.40	9.70	1/4	3/8	8.7				
MBFL-A034-IAA-111	AFE12C4-IAA-199	16.20	12.20	9.70	1/4	3/8	8.7				
MBFS-0017-SAA-102	ARB13C3-SAA-100	13.80	11.10	9.70	1/4	3/8	4.2				
MBFS-0017-SAA-111	ARB13C3-SAA-100						4.2				
MBFS-0024-SAA-102	ARE25C3-SAA-103	13.80	11.30	9.70	1/4	3/8	6.3				
MBFS-0024-SAA-111	ARE25C3-SAA-103						6.3				
MBFS-0033-IAA-103	ARE37C3-IAA-103	13.80	11.50	9.70	1/4	3/8	9.7				
MBFS-0033-IAA-111	ARE37C3-IAA-103	13.80	11.30	9.70	1/4	3/8	9.7				
MBFS-0033-IAA-212	ARE37C3-IAA-103	13.80	11.90	9.60	1/4	3/8	9.7				
MBFS-0033-IAA-240	ARE37C3-IAA-103	13.90	10.75	9.62	1/4	3/8	9.7				
MBFS-0033-IAA-272	ARE37C3-IAA-103	14.14	12.33	11.15	1/4	3/8	9.7				
MBFS-A033-IAA-103	ARE40C4-IAA-199	13.90	11.50	9.70	1/4	3/8	9.5				
MBFS-A033-IAA-111	ARE40C4-IAA-199	13.90	11.50	9.70	1/4	3/8	9.5				
MBFS-A033-IAA-272	ARE40C4-IAA-199	14.40	12.90	11.40	1/4	3/8	9.5				
MBWH-C050-IAA-020	ART62C1-IAA-103	17.90	12.77	9.78	1/4	3/8	12.9				
MCEH-0035-IAA-103	ARE43C3-IAA-103	16.00	14.00	11.78	1/4	3/8	9.7				
MCEH-0035-IAA-111	ARE43C3-IAA-103	16.00	15.20	11.78	1/4	3/8	9.7				
MCEH-0035-IAA-212	ARE43C3-IAA-103	16.17	15.29	11.78	1/4	3/8	9.7				
MCEH-0048-CAV-103	ARE59C3-CAV-103	16.00	15.20	11.75	1/4	3/8	5.6				
MCEH-0048-CAV-111	ARE59C3-CAV-103	16.00	15.20	11.75	1/4	3/8	5.6				

New Model	New Compressor Model	New Length	New Width	New Height	New Liquid	New Suction	New MCA	New Rated Capacities			
								LT_134a	LT_404A	MT_134a	MT_404A
M6TM-0022-IAA-117	ASE14C4E-IAA-103	19.00	9.41	10.53	1/4	3/8	6.7		1040		2120
M6TM-0022-IAA-118	ASE14C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	6.7		1040		2120
M6TM-0022-IAA-108	ASE14C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	6.7		1040		2120
M6TM-0022-IAA-108	ASE14C4E-IAA-103	19.04	8.47	10.53	1/4	5/16	6.7		1040		2120
M6TM-0022-IAA-118	ASE14C4E-IAA-103	19.00	9.41	10.53	1/4	5/16	6.7		1040		2120
M6WF-0056-IAA-020	RST45C1E-IAA-102	18.30	12.87	9.99	3/8	1/2	13.1				
M6WF-0056-IAA-020	RST45C1E-IAA-102	18.30	12.87	9.99	3/8	1/2	13.1				
M6WF-0056-IAV-020	RST45C1E-IAV-104	18.30	12.87	9.99	3/8	1/2	6.6				
M6WF-0075-CAA-020	RST55C1E-CAA-102	24.23	16.10	11.85	3/8	1/2	18.8				
M6WF-0075-CAV-020	RST55C1E-CAV-104	24.23	16.10	11.85	3/8	1/2	8.5				
M6WH-0025-IAA-020	ASE20C4E-IAA-103	18.18	13.20	9.42	1/4	3/8	7.5				
M6WH-0036-IAA-020	ASE24C5E-IAA-103	18.18	13.21	9.92	1/4	3/8	7.8				
M6WH-0036-IAV-020											
M6WH-0050-CAA-020	ASE32C5E-CAA-103	18.18	12.97	9.92	1/4	3/8	9.4				
M6WH-0050-CAV-020											
M6WL-0033-IAA-020	AFE11C4E-IAA-103	24.00	16.41	9.73	1/4	3/8	5.9				
M6WL-0040-IAA-020	AFE14C5E-IAA-103	24.00	16.41	10.23	1/4	3/8	8.2				
M6WL-0075-CFA-020	RST64C1E-CFA-102	24.00	16.41	11.87	3/8	1/2	18.9				
M6WL-0075-IAV-020	RST64C1E-IAV-102	24.00	16.41	10.46	3/8	1/2	11.8				
M6WL-0067-CAA-020	RFT26C1E-CAA-102	24.00	16.41	11.87	3/8	1/2	14				
M6WL-0025-IAA-020	AFE08C4E-IAA-103	24.00	16.41	9.73	1/4	3/8	5.5				
M6WL-0051-IAA-020	AFE17C4E-IAA-103	24.00	16.41	10.18	1/4	3/8	10.4				
Obsolete R12 unit											
Obsolete R12 unit											
Obsolete R12 unit											
Obsolete R12 unit											
Obsolete R12 unit											
Obsolete R12 unit											
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Copeland to Copeland Cross Reference

Old Model	Compressor Model	Length	Width	Height	Liquid Conn.	Suction Conn.	MCA	Old Rated Capacities			
								LT_134A	LT_404A	MT_134A	MT_404A
MCEH-0048-CAV-208	ARE59C3-CAV-103	16.17	15.29	11.78	1/4	3/8	5.6				
MCEH-A048-CAA-212	ASE35C4-CAA-199	16.10	15.10	11.80	1/4	3/8	15.9				
MCFH-0027-IAA-111	ARE36C3-IAA-103	13.82	11.25	9.67	1/4	3/8	9.1				
MCFH-0049-CAB-252	ARE59C3-CAV-103	16.00	13.20	11.70	1/4	3/8	5.4				
MCFH-0049-CAV-104	ARE59C3-CAV-103	16.00	13.10	11.80	1/4	3/8	5.6				
MCFH-0049-CAV-111	ARE59C3-CAV-103	16.06	12.68	11.81	1/4	3/8	5.6				
MCFH-0049-CAV-212	ARE59C3-CAV-103	16.06	13.08	11.81	1/4	3/8	5.6				
MCFH-0050-CAB-251	ARE59C3-CAV-103	17.40	14.40	11.80	1/4	3/8	5.6				
MCFH-0050-CAB-252	ARE59C3-CAV-103	17.38	12.41	11.82	1/4	3/8	5.6				
MCFH-0050-CAV-212	ARE59C3-CAV-103	17.40	14.40	11.80	1/4	3/8	6				
MCFH-0078-CAA-072	RST55C1-CAA-198	24.00	17.14	13.07	3/8	5/8	20.8				
MCFH-0078-CAV-072	RST55C1-CAV-198	24.00	17.20	13.10	3/8	5/8	9.7				
MCFH-A022-IAA-103	ASE12C4-IAA-199	13.90	11.70	9.70	1/4	3/8	5.9				
MCFH-A022-IAA-111	ASE12C4-IAA-199	13.90	11.30	9.70	1/4	3/8	5.9				
MCFH-A027-IAA-103	ASE19C4-IAA-199	13.91	11.47	9.67	1/4	3/8	7.7				
MCFH-A027-IAA-272	ASE19C4-IAA-199	14.42	12.89	11.36	1/4	3/8	7.7				
MCFH-A036-IAA-103	ASE20C4-IAA-199	16.15	12.87	11.74	1/4	3/8	8.4				
MCFH-A036-IAA-111	ASE20C4-IAA-199						8.4				
MCFH-A036-IAA-272	ASE20C4-IAA-199	16.27	13.08	11.73	1/4	3/8	8.4				
MCFH-A049-CAA-020	ASE35C4-CAA-199						15.9				
MCFH-A049-CAA-103	ASE35C4-CAA-199	16.00	12.90	11.70	1/4	3/8	15.9				
MCFH-A049-CAA-111	ASE35C4-CAA-199				1/4	3/8	15.9				
MCFH-A049-CAA-272	ASE35C4-CAA-199	16.56	13.08	11.74	1/4	3/8	15.9				
MCFH-A049-IAV-272	ASE35C4-IAV-199	16.60	13.10	11.70	1/4	3/8	8.3				
MCFH-A056-IAA-020	RST40C1-IAA-198						15.5				
MCFH-A056-IAA-272	RST40C1-IAA-198	17.38	14.38	11.82	1/4	5/8	15.5				
MCFH-A056-IAV-272	RST40C1-IAV-198	17.38	14.38	11.82	1/4	5/8	7.3				
MCFH-B027-IAA-020	ASE20C4-IAA-199						8.2				
MCFH-B027-IAA-103	ASE20C4-IAA-199	13.90	11.50	9.70	1/4	3/8	8.2				
MCFH-B027-IAA-111	ASE20C4-IAA-199	13.90	11.30	9.70	1/4	3/8	8.2				
MCFH-B027-IAA-272	ASE20C4-IAA-199	14.40	12.90	11.40	1/4	3/8	8.2				
MCFH-B036-IAA-103	ASE26C4-IAA-199	16.00	12.80	11.70	1/4	3/8	10.3				
MCFH-B036-IAA-111	ASE26C4-IAA-199	16.20	12.70	11.70	1/4	1/2	10.3				
MCFH-B036-IAA-272	ASE26C4-IAA-199	16.54	13.08	11.73	1/4	3/8	10.3				
MCFH-N040-IAA-199	ASE26C4-IAA-199						9.4				
MCPH-0035-IAA-111	ARE43C3-IAA-103	19.88	11.00	10.52	1/4	3/8	9.7				
MCPH-0035-IAA-208	ARE43C3-IAA-103	19.88	11.01	10.52	1/4	3/8	9.7				
MCPH-0035-IAA-212	ARE43C3-IAA-103	19.88	11.14	10.52	1/4	3/8	9.7				
MCPH-0048-CAV-103	ARE59C3-CAV-103	11.00	20.00	10.57	1/4	3/8	5.6				
MCPH-0048-CAV-111	ARE59C3-CAV-103	11.00	20.00	10.57	1/4	3/8	5.6				
MCPH-0048-CAV-208	ARE59C3-CAV-103	11.00	20.00	10.57	1/4	3/8	5.6				
MCPH-A035-IAA-212	ASE26C4-IAA-199	19.88	11.08	10.46	1/4	3/8	10.3				
MCPH-A048-CAA-212	ASE35C4-CAA-199	19.90	11.20	10.50	1/4	3/8	15.9				
MCPH-A048-IAV-212	ASE35C4-IAV-199	19.90	11.20	10.50	1/4	5/16	8				
MCPH-B027-IAA-212	ASE20C4-IAA-199	19.90	11.30	10.50	1/4	3/8	8.2				
MCWH-0078-CAA-020	RST55C1-CAA-198	24.23	17.79	10.71	3/8	5/8	18.8				
MCWH-0078-CAV-072	RST55C1-CAV-198	24.30	17.80	12.40	3/8	5/8	8.5				
MCWH-A056-IAA-020	RST40C1-IAA-198	17.90	12.70	10.50	1/4	5/8	13.8				
MCWH-A056-IAV-020	RST40C1-IAV-198	17.90	12.70	10.50	1/4	5/8	6.3				
MCWH-C027-IAA-020	ARE36C3-IAA-103	17.90	12.98	8.65	1/4	3/8	8.3				
MCWH-D036-IAA-020	ASE26C4-IAA-199	17.20	12.80	9.00	1/4	3/8	9.4				
MCWH-D049-CAA-020	ASE35C4-CAA-199	17.92	12.93	8.96	1/4	3/8	15				
MCWH-D049-IAV-020	ASE35C4-IAV-199	17.92	12.93	8.96	1/4	3/8	7.4				
MFFP-H022-IAA-272	ASE12C4E-IAA-103	14.49	12.68	11.36	1/4	3/8	5.5				1670

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



Hold 3 Seconds to Enter Menu (PSI Light Will Flash) ▾ + SET

Cycle Through Menu Options ▲ ▾

Select Function SET

Adjust Value ▲ ▾

Store Function SET

Exit Menu ▲ + SET

Functions

[in]
Low Pressure Cut-In

[CoU]
Low Pressure Cut-Out

More information inside panel

Alarm	Description	Alarm	Description
PoF	Keypad locked	HP	High pressure trip alarm
Pon	Keypad unlocked	HA	High condenser temperature alarm
P1	Suction probe failure	HPL	High pressure trip lock-out alarm
P2	Condenser probe failure		
P3	DLT probe failure		
dLt	DLT temperature alarm		
dLL	DLT lock alarm		
EE	Module Failure		

Note: After 15 seconds of inactivity the controller will revert to the default display

Scan for Electronic Unit Controller Alarm Code and Service Information

052-7269-00

BUTTON	DESCRIPTION
SET	Displays set point In programming mode it confirms an operation.
RESTART	Allows a manual restart and a dead band reset
SERVICE	To enter the service menu.
Alarm menu	To enter the Alarm menu.

Note: Fan Cycling (If Present) is controlled by the Saturated Condenser Temperature for equal runtime

Default Factory Settings For Replacement Controller

Cin = 25	AC = 6	P1E = 135	dly = 0	bEn = 4
CoU = 15	ono = 0	P1d = 15	bMP = no	Di1 = YES
LS = 5	Con = 5	Unit = PSI	On = 2	i1P = CL
US = 135	CoF = 5	CF = F	oFF = 5	Di1 = no
odS = 2	P1i = -15	rES = in	Nub = 3	i2P = CL

Call 1-888-367-9950 or
see www.EmersonClimate.com/EUC for more details

Visit Emerson.com/mobileapps to download FREE apps for your mobile device!



AE Bulletins



HVACR Fault Finder



Emerson X-Check™



HVAC Check & Charge



Emerson e-Saver™



Copeland™ Select



WRMobile



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 Compressors for Multiple Refrigerants
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

About Emerson

Emerson (NYSE: EMR), headquartered in St. Louis, Missouri (USA), is a global technology and engineering company providing innovative solutions for customers in industrial, commercial, and residential markets. Our Emerson Automation Solutions business helps process, hybrid, and discrete manufacturers maximize production, protect personnel and the environment while optimizing their energy and operating costs. Our Emerson Commercial and Residential Solutions business helps ensure human comfort and health, protect food quality and safety, advance energy efficiency, and create sustainable infrastructure. For more information visit Emerson.com.

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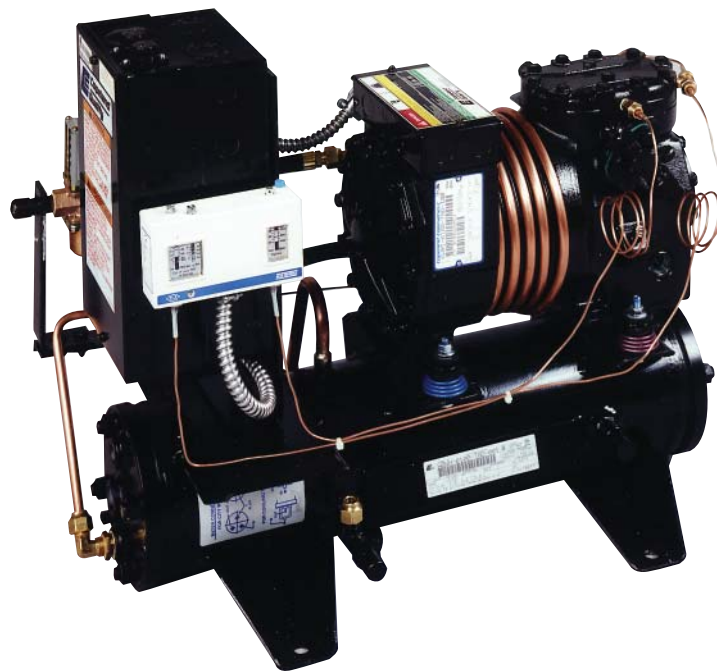
Emerson.com

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Copeland™ W-Line

Semi-hermetic water-cooled condensing units



Product Information

Horsepower: 3/4 - 30
Temperature Applications: Ultra-Low/Low/Medium/High
Refrigerants: R-12, R-134a, R-404A,
R-407A, R-407C
Installation Applications: A variety of applications
including walk-inboxes and
industrial air dryers



Nomenclature • Semi-Hermetic Condensing Units

Temperature Application		Compressor Motor Types		
Description	Code	Phase	Description	Code
High Temperature	H	1	Capacitor Run – Capacitor Start	C
Medium Temperature	M	1	Induction Run – Capacitor Start	I
Low Temperature	L	1	Induction Run – Split Phase	S
Extended Medium Temp.	F	1	Capacitor Run – Permanent Split Capacitor	P
Extra Low Temp.	E	3	Three Phase	T
High Temperature	B	3	Wye (star) Delta	E
R22/404A LT & R134a HT	G	3	6 Lead Part Winding or Across the Line – except 575V	F
R22 HT & R404A MT	J			
R404A LT & R134a HT	K			
Two Stage	U			
Two Stage	T			

Product Variations
Numbers will be assigned as follows:

- Number –100 is standard compressor used in Copeland® condensing units.
- Number –200 indicates a STANDARD compressor parts B/M and model no.
- Number –201 and larger will be assigned for all other variations of a given model.
- Number –800 indicates a standard replacement compressor and Component Parts B/M and model no. –240 volt control.
- Number –801 indicates a standard replacement compressor and component parts B/M and model no. –120 volt control.

Receiver Base	C
Flat Metal Base	E, D
Water Condenser Base	W
Transport Unit	T



Refrigerant	
R404A/507	J/4
R134a	T/2
R12	B/7
R22	3/M/L/C
Multiple	F
R22/407C	G
R22	9
R134a/404A/22	N
R134a/404A	P
R404A/22	8

Air Cooled Steel Base	A
Air Cooled Copevap Base	E
Water Cooled Steel Base	W
Custom Base	C
Discus	D

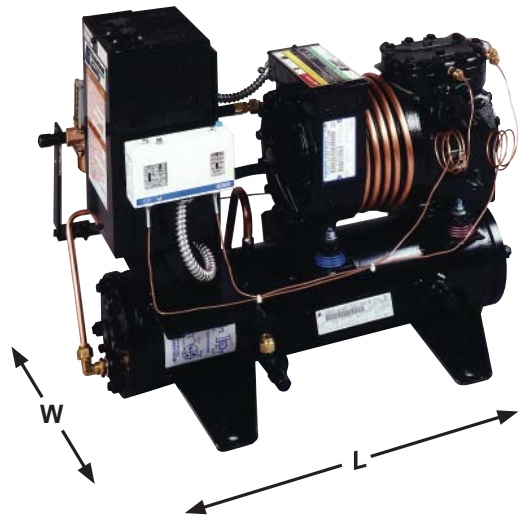
Comp. Motor Rating	
Nominal (HP)	Code
1/2	0050
3/4	0075
1	0100
1-1/2	0150
2	0200
3	0300
4	0400
5	0500
6	0600
7-1/2	0750
9	0900
10	1000
15	1500
20	2000
22	2200
25	2500
27	2700
30	3000
40	4000
50	5000
60	6000
70	7000
80	8000

Note: Left position may be a letter indicating a revision change

Compressor Motor Protection	
Type Protection	Code
External Inherent Protection-One Protector, (Line Break) Use with Contactor	A
Internal Inherent Protection-One Protector (Line Break) Use with Contactor	F
Internal Thermal Protectors-Electronic Sensors; and Control Module External Use with Contactor	S

Electrical Codes		
60 Hz.	50 Hz.	Code
115-1	100-1	A
230-1	-	B
208/230-3	200/220-3	C
460-3	-	D
575-3	-	E
-	230-1	G
-	380/420-3	M
208/230-1	200-1	V
-	220-3	W
-	220/240-1	Z

Note: When applicable, specific 50 Hz ratings (not necessarily identical to typical shown above) will be shown as alternate on 60 Hz rated models.



Bill of Materials Matrix

BOM	Options					UL	
	Suction Valve	Liquid Valve	Conduit	Pressure Controls	Head Cooling Fan	Listed	Recognized
001	X	X	X	X		X	
007/050	X	X	X	X	X	X	

Semi-hermetic water-cooled condensing units

Features	Benefits
Copeland™ Semi-hermetic Compressor Copeland Discus™ Compressor with Unique 'Discus' Valve Design	Reliability High Energy Efficiency
Modular Components	Replacement Serviceability
Positive Displacement Oil Pump	Oil Lubrication Under All Operating Conditions Lower Service & Maintenance Cost
Low Re-expansion Volumes	Decreases Energy Costs Greater Capacity
Lower Operating Speeds	Reduces Operating Component Stress Low Sound Lower Maintenance Costs
Wide Range of Available Models from 0.75 HP to 30 HP For HCFC and HFC Refrigerants	Application Flexibility

Register for more product information

The screenshot shows the Emerson Climate Technologies website. At the top, there is a navigation bar with the Emerson logo and links for 'PRODUCTS', 'BRANDS', 'MARKET SOLUTIONS', 'SERVICES', 'RESOURCES', and 'ABOUT US'. Below the navigation bar is a large banner image of a mountain landscape with a rainbow, featuring the text 'RIGHT NOW Unleashing new ideas to grow your business.' and 'EMERSON CLIMATE TECHNOLOGIES'. The main content area is divided into several sections: 'Registered Users Log On' with a login form; 'Quick Links for Tools' listing various resources like 'AC & Heating Connect' and 'Distributor Locator'; 'Quick Links for Products' listing 'Copeland Scroll™ Compressors' and 'White-Rodgers™ Products'; 'New Products & Solutions' featuring a '#StateofHVAC' video; 'Latest News' with recent articles; 'Our Brands' listing 'Browning™', 'Copeland™', 'Fusite™', and 'Vilter™'; 'Regional Websites' for 'Asia', 'Europe', 'Latin America', and 'Canada'; 'ProAct™ Transport' for transportation solutions; and 'Social Networking Sites' with icons for LinkedIn, Twitter, Facebook, YouTube, and RSS. At the bottom, there is a footer with 'EMERSON Climate Technologies Brands', 'RSS FEEDS Subscribe', 'Website Feedback', and 'Please Select'.

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

Semi-hermetic water-cooled condensing units

BTU/H at 105° condensing, 85° water inlet - evaporator temp (°F)

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

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

R-404A Ultra Low Temp

Unit Model	Compressor	-60	-55	-50	-45	-40	-35	-30	-25	-60	-40	-25
WJWU-0500	9TK2-050E	7110	8700	10400	12300	14200	16100	18100	20000	2.5	4.83	6.61

R-404A Low Temp

Unit Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0	-40	-20	0
WJWL-0100	KWJ*-011E	2300	2800	3360	3980	4660	5420	6250	7170	8180	0.91	1.46	2.28
WJWL-0151	KWL*-016E	3450	4200	5020	5920	6900	7960	9130	10410	11800	1.28	2.19	3.28
WJWL-A201	EAV*-021E	4440	5460	6580	7810	9170	10700	12300	14100	16100	1.44	2.68	4.43
WJWL-0303	LAHA-032E	5890	7570	9500	11700	14100	16700	19600	22700	26100	1.76	3.93	7.02
WJDL-0302	2DF3-030E / 2DF3F16KE	9950	12100	14440	17000	19810	22910	26310	30050	34150	3.35	5.86	9.02
WFDP-0300	2DF3F16KE	10300	12600	15000	17700	20600	23800	27300	31200	35500	3.1	5.7	9.4
WFDP-0350	2DL3F20KE	12300	14800	17600	20600	23900	27500	31500	35800	40600	3.06	5.73	9.37
WJDL-0401	2DL3-040E	12360	14900	17660	20700	24020	27660	31640	36000	40760	4.09	6.96	10.68
WFDP-0400	2DA3F23KE	14600	17500	20600	23900	27600	31600	35900	40700	45900	3.57	6.55	10.65
WJDL-0604	2DA3-060E	14650	17570	20680	24050	27710	31710	36090	40890	46160	4.75	8.02	12.12
WFDP-0500	3DA3F28KE	18000	21300	24800	28800	33100	37900	43100	48800	55000	4.2	7.55	12.06
WJDL-0603	3DA3A060E	18090	21350	24950	28920	33280	38060	43300	49020	55260	5.85	9.66	14.49
WFDP-0550	3DB3F33KE	21400	25300	29600	34200	39300	44800	50800	57500	64900	5.19	9.05	14.44
WJDL-0751	3DB3A075E / 3DB3F33KE	21400	25300	29600	34200	39200	44800	51000	57500	65000	6.15	10.78	17.11
WFDP-0600	3DF3F40KE	26100	30800	35900	41600	47900	55000	62500	70500	79500	7.3	12.8	20.5
WJDL-0901	3DF3F40KE	26180	30920	36130	41850	48130	55040	62620	70920	80010	8.46	13.86	21.02
WFDP-0700	3DS3F46KE	30400	35700	41400	47600	54500	61500	69500	78500	88000	8.4	14.6	22.8
WJDL-1001	3DS3A100E / 3DS3F46KE	29850	35220	41090	47500	54480	62050	70250	79120	88680	9.55	15.67	23.37
WJDL-1501	4DL3F63KE / 4DL3A150E	41400	49300	57400	65800	74800	84400	94800	106600	119600	11.6	20.31	31.49
WFDP-1500	4DHN63KE	39300	47500	56000	64500	74000	84000	95000	107000	120000	11.2	19.9	30.9
WJDL-2701	6DL3F93KE	59500	70700	83200	96900	111700	127800	145000	163400	183000	19.08	32.1	48.11

R-404A Med Temp

Unit Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45	-5	25	45
WJWM-0075	KWN*-007E	3140	3670	4270	4940	5660	6450	7280					0.95	1.9	
WJWM-0100	K*R*-010E	4890	5650	6410	7210	8090	9090	10260					1.42	2.74	
WJWM-0152	K*G*-010E	5860	6740	7650	8640	9740	11000	12400					1.74	3.19	
WJWM-0202	K*KA-020E	8440	9750	11000	12300	13800	15400	17400					2.71	4.65	
WJWM-0203	ERCA-02*E	10000	11600	13300	15100	17100	19200	21600					3.11	5.64	
WJWM-0300	ERFA-031E	14800	17000	19400	22000	24800	27800	31200					4.48	8.07	
WFDP-0451	2DC3R53KE	22400	25700	29400	33500	38000	42900	48300	54100	60400	67300	74600	6.03	12.02	17.66
WFDP-0501	2DD3R63KE	27400	31200	35600	40400	45800	51700	58000	64900	72200	80100	88500	7.31	14.38	20.91
WFDP-0751	2DA3R89KE	41100	46400	52500	58500	65500	73500	81500					10.6	19.9	
WFDP-1001	3DB3R12ME	57800	65300	73400	82200	91800	102300	113700	126100	139600	154300	170300	15.07	27.81	39.82
WFDP-2511	4DK3R22ME	106000	119000	134000	151000	170000	191000	212000					27.2	52	
WFDP-3011	4DRNR28ME	125000	142000	161000	182000	204000	229000	255000					32.8	62.8	

Semi-hermetic water-cooled condensing units

BTU/H at 105° condensing, 85° water inlet - evaporator temp (°F)

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

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

R-407A

Unit Model	Compressor	-10	-5	0	5	10	15	20	25	30	35	40	45	-10	25	45
WFDP-1001	3DB3R12ME	43900	51100	59000	67500	76800	86900	97900	109900	123000	137100	152400	168900	11.8	26.82	39.2

R-407C High Temp

Unit Model	Compressor	-10	-5	0	5	10	15	20	25	30	35	40	45	-10	25	45
WFDP-0451	2DC3R53KE	16900	19200	21900	25200	28900	33200	38100	43600	49600	56300	63700	71700	4.66	10.8	17.1
WFDP-0501	2DD3R63KE	20500	23000	26100	29700	34000	38900	44400	50700	57600	65300	73700	82800	5.61	12.5	19.7
WFDP-0751	2DA3R89KE		32600	37400	42900	49000	56000	63500	72000						17.7	
WFDP-1001	3DB3R12ME	43000	49800	57100	65000	73600	83000	93200	104300	116500	129700	144200	159900	11.38	25.4	37.1
WFDP-2511	4DK3R22ME		89500	103000	118000	134000	153000	174000	198000						48.6	
WFDP-3011	4DRNR28ME		106000	123000	140000	159000	180000	204000	231000						57.1	

R-134a HighTemp

Unit Model	Compressor	0	5	10	15	20	25	30	35	40	45	0	25	45
WTWH-0100	KWJ*-011E	4140	4890	5700	6580	7540	8580	9730	11000	12400	13900	1.14	2.18	3.43
WTWH-A201	EAV*-021E	8360	9880	11500	13300	15200	17300	19700	22200	25000	28000	2.25	4.4	6.86
WTWM-0300	LAHA-031E	13200	15500	18100	20900	24000	27300					3.58	6.95	
WFDP-0300	2DF3F16KE	19600	22700	26100	29700	33700	38100	42900	48100	53800	60100	5.2	9.4	14.2
WFDP-0400	2DA3F23KE	24500	28300	32500	37100	42200	47700	53800	60400	67600	75400	6.4	11.8	17.8
WFDP-0500	3DA3F28KE	29600	34300	39300	44800	50800	57400	64500	72300	80800	90100	7.79	14.26	21.34
WFDP-0550	3DB3F33KE	34600	40100	46100	52600	59600	67300	75800	85100	95200	106300	9	16.5	24.9
WFDP-0600	3DF3F40KE	41000	47800	55000	62500	70500	79500	89500	100000	112000	124000	10.7	19.6	29.4
WFDP-0700	3DS3F46KE	45200	52500	60500	68500	78000	88000	98500	111000	124000	138000	11.8	21.7	32.6

Semi-hermetic water-cooled condensing units

BTU/H at 105° condensing, 85° water inlet - evaporator temp (°F)

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

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

R-22 High Temp

Unit Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45	0	25	45
W2WH-0075	KWN1-0075		3450	3980	4570	5230	5960	6750	7610	8550	9570	10700	1.06	1.74	2.52
W2WM-0075	KWE*-0075	3680	4260	4880	5550	6290	7110	8040					1.36	2.14	
W2WH-0100	KWR*-0100		5050	5800	6640	7570	8590	9700	10900	12200	13600	15000	1.53	2.58	3.73
W3WM-0100	KWM*-0100		5730	6700	7750	8890	10100	11400					1.63	2.87	
W2WH-0201	ERA*-0200		2960	5420	7890	10400	13000	15700	18600	21600	24800	28200	1.04	4.17	6.64
W3WM-0201	KWK*-0200	7260	8690	10200	11700	13400	15100	17000					2.56	4.37	
W2WM-0202	ERC1-0200	8180	9530	11100	12800	14800	17000	19400					2.76	4.95	
W2WH-0300	ERF*-0310		14800	17100	19700	22400	25500	28800	32400	36200	40400	44900	4.3	7.45	10.7
WFDP-0451	2DC3R53KE	19400	23100	27000	31300	35800	40800	46100	51900	58100	64900	72200	6.07	11.34	16.9
WFDP-0501	2DD3R63KE	23200	27400	31900	36700	41900	47600	53600	60200	67300	75000	83300	7.18	13.17	19.52
WFDP-0751	2DA3R89KE				53000	60500	68000	76500						18.7	
WFDP-1001	3DB3R12ME	54700	62100	70200	78900	88400	98700	109900	122000	135100	149200	164500	16.03	26.81	38.35
W3DD-1502	3DS3A1500				102930	116170	130360	145600	161970	179560	198450	218750		36.17	52.5
W3DD-1502	3DS3R17M0				102930	116170	130360	145600	161970	179560	198450	218750		36.17	52.5
W3DH-1512	3DT3A1500		81700	92500	104300	116900	130700	145600	161700	179200	198200	218600	22.5	36.11	50.6
W3DD-2002	4DA3R18M0		84800	96500	109400	123700	139400	156600	175600	196400	219200	244000	23.16	38.7	55.97
W3DH-2512	4DK3R22M0		108200	123500	141000	160500	181800	204700	228900	254400	280700	307900	29.85	50.52	71.1
W3DH-3012	4DR3R28M0				166400	188200	211900	237600	265200	294400	325400	357900		59.69	84.86

R-12 High Temp

Unit Model	Compressor	-5	0	5	10	15	20	25	30	35	40	45	0	25	45
W7WB-0075	KWM1-0075		3260	3800	4400	5060	5780	6560	7390	8270	9220	10200	1.1	1.8	2.5
WSWM-0075	KWG1-0075	3130	3740	4340	4950	5600	6320	7130					1.1	1.9	
W7WB-0100	KWJ1-0100		4530	5120	5820	6610	7500	8460	9510	10600	11800	13000	1.3	2.2	3.2
WSWM-0100	KWK1-0100	4740	5430	6160	6940	7790	8740	9820					1.4	2.5	
WFDP-0300	2DF3F16KE	16500	19200	22200	25400	28900	32600	36700	41200	45900	51100	56600	5.2	9.3	13.6

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Application Engineering Bulletins

4-1094	Identification of port locations in heads of Copelometric Compressors
4-1135	Cooling Requirements for Copelometric and Discus Compressors
4-1166	Copeland oil pumps
4-1273	Factors to Consider in Converting Compressor Rated Capacity to Actual Capacity
4-1295	HFC-134A Refrigerant Guidelines
5-1174	Water flow requirement and water pressure drop for Copeland water cooled condensing units
8-1376	Electronic Unit Controller
11-1147	Suction Accumulators
11-1297	Liquid Line Filter-Driers
17-1260	Compressors Overheating
17-1268	Compression Ratio as it Affects Compressor Reliability
22-1182	Liquid Refrigerant Control in Refrigeration and Air Conditioning Systems

Physical and Electrical Data

Semi-hermetic water-cooled condensing units

MODEL	BOM	Compressor Electrical	Length	Width	Height	Liquid Connection	Suction Connection	Discharge Connection	Water Inlet	Water Outlet
W2WH-0075-TAC	001	KWN1-0075-TAC	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
W2WH-0100-CAV	001	KWR2-0100-CAV	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
W2WH-0100-TAC	001	KWR1-0100-TAC	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
W2WH-0100-TAD	001	KWR1-0100-TAD	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
W2WH-0201-CAB	001	ERA2-0200-CAB	34	14.5	20.4	3/8 S	7/8 S	-	1/2 FPT	1/2 FPT
W2WH-0201-TAC	001	ERA1-0200-TAC	34	14.5	20.4	3/8 S	7/8 S	-	1/2 FPT	1/2 FPT
W2WH-0201-TAD	001	ERA1-0200-TAD	34	14.5	20.4	3/8 S	7/8 S	-	1/2 FPT	1/2 FPT
W2WH-0300-TAC	001	ERF1-0310-TAC	30	17	24	1/2 S	1-1/8 S	-	1 1/4 FPT	1 1/4 FPT
W2WH-0300-TAD	001	ERF1-0310-TAD	30	17	17	1/2 S	1-1/8 S	-	1 1/4 FPT	1 1/4 FPT
W2WM-0075-CAV	001	KWE2-0075-CAV	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
W2WM-0075-TAC	001	KWE1-0075-TAC	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
W2WM-0202-TAC	001	ERC1-0200-TAC	34	14.5	20.4	3/8 S	7/8 S	-	1/2 FPT	1/2 FPT
W3DD-2002-TSD	001	4DA3R18M0-TSK	64	20.2	34.3	1-1/8 S	1-5/8 S	-	2" FPT	2" FPT
W3DH-1512-TFD	001	3DT3A1500-TFD	52	18	36.4	1-1/8 S	1-5/8 S	-	1 1/2 FPT	1 1/2 FPT
W3DH-2512-TSE	001	4DK3R22M0-TSE	64	20.5	33	1/8 S	1-5/8 S	-	2" FPT	2" FPT
W3WM-0100-CAV	001	KWM2-0100-CAV	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
W3WM-0100-TAC	001	KWM1-0100-TAC	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
W3WM-0100-TAD	001	KWM1-0100-TAD	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
W3WM-0201-TAD	001	KWKA-0200-TAD	34.8	14.5	17.67	3/8 S	7/8 S	-	1/2 FPT	1/2 FPT
W7WB-0075-TAC	001	KWM1-0075-TAC	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
W7WB-0100-TAC	001	KWJ1-0100-TAC	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
W7WB-0100-TAD	001	KWJ1-0100-TAD	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
WFDP-0300-CFB	050	2DF3F16KE-CFB	39.87	17	36.5	1/2 S	1 1/8 S	-	1 1/4 FPT	1 1/4 FPT
WFDP-0300-TFC	050	2DF3F16KE-TFC	39.87	17	36.5	1/2 S	1 1/8 S	-	1 1/4 FPT	1 1/4 FPT
WFDP-0300-TFD	050	2DF3F16KE-TFD	39.87	17	36.5	1/2 S	1 1/8 S	-	1 1/4 FPT	1 1/4 FPT
WFDP-0300-TFE	050	2DF3F16KE-TFE	39.87	17	36.5	1/2 S	1 1/8 S	-	1 1/4 FPT	1 1/4 FPT
WFDP-0350-TFC	050	2DL3F20KE-TFC	39.87	17	36.5	1/2 S	1 3/8 S	-	1 1/4 FPT	1 1/4 FPT
WFDP-0350-TFD	050	2DL3F20KE-TFD	39.87	17	36.5	1/2 S	1 3/8 S	-	1 1/4 FPT	1 1/4 FPT
WFDP-0400-TFC	050	2DA3F23KE-TFC	39.87	17	36.5	1/2 S	1 3/8 S	-	1 1/4 FPT	1 1/4 FPT
WFDP-0400-TFD	050	2DA3F23KE-TFD	39.87	17	36.5	1/2 S	1 3/8 S	-	1 1/4 FPT	1 1/4 FPT
WFDP-0451-TFC	001	2DC3R53KE-TFC	39.87	17	28	1/2 S	1 3/8 S	-	1 1/4 FPT	2 1/4 FPT
WFDP-0451-TFD	001	2DC3R53KE-TFD	39.87	17	28	1/2 S	1 3/8 S	-	1 1/4 FPT	2 1/4 FPT
WFDP-0500-TFC	050	3DA3F28KE-TFC	46	17	38.62	5/8 S	1 3/8 S	-	1 1/4 FPT	1 1/4 FPT
WFDP-0500-TFD	050	3DA3F28KE-TFD	46	17	38.62	5/8 S	1 3/8 S	-	1 1/4 FPT	1 1/4 FPT
WFDP-0501-TFC	001	2DD3R63KE-TFC	39.87	17	28	1/2 S	1 3/8 S	-	1 1/4 FPT	2 1/4 FPT
WFDP-0550-TFC	050	3DB3F33KE-TFC	46	17	38.62	5/8 S	1 3/8 S	-	1 1/4 FPT	1 1/4 FPT
WFDP-0550-TFD	050	3DB3F33KE-TFD	46	17	38.62	5/8 S	1 3/8 S	-	1 1/4 FPT	1 1/4 FPT
WFDP-0550-TFE	050	3DB3F33KE-TFE	46	17	38.62	5/8 S	1 3/8 S	-	1 1/4 FPT	1 1/4 FPT
WFDP-0600-TFC	050	3DF3F40KE-TFC	52	17	39.47	7/8 S	1 3/8 S	-	1 1/4 FPT	1 1/4 FPT
WFDP-0600-TFD	050	3DF3F40KE-TFD	52	17	38.65	7/8 S	1 3/8 S	-	1 1/4 FPT	1 1/4 FPT
WFDP-0700-TFC	050	3DS3F46KE-TFC	52	17	39.47	7/8 S	1 3/8 S	-	1 1/4 FPT	1 1/4 FPT
WFDP-0700-TFD	050	3DS3F46KE-TFD	52	17	38.65	7/8 S	1 3/8 S	-	1 1/4 FPT	1 1/4 FPT
WFDP-0700-TFE	050	3DS3F46KE-TFE	52	17	38.65	7/8 S	1 3/8 S	-	1 1/4 FPT	1 1/4 FPT
WFDP-0751-TFC	001	2DA3R89KE-TFC	46	17	31.41	5/8 S	1 3/8 S	-	1-1/4 FPT	1-1/4 FPT

Physical and Electrical Data

Semi-hermetic water-cooled condensing units

MODEL	Receiver Capacity (Lbs @ 90% Volume)						MCA	Max Fuse	Ship Weight
	R-12	R-22	134a	404A	407A	407C			
W2WH-0075-TAC			26.5				4.4	15	166
W2WH-0100-CAV			26.5				9.3	15	170
W2WH-0100-TAC			26.5				5.4	15	205
W2WH-0100-TAD			26.5				2.8	15	170
W2WH-0201-CAB			35.9				13.0	20	296
W2WH-0201-TAC			35.9				8.3	15	294
W2WH-0201-TAD			35.9				4.4	15	305
W2WH-0300-TAC			61				14.6	25	330
W2WH-0300-TAD			61				8.0	15	330
W2WM-0075-CAV			26.5				6.8	15	166
W2WM-0075-TAC			26.5				4.3	15	166
W2WM-0202-TAC			35.9				8.5	15	308
W3DD-2002-TSD		260					41.3	70	1160
W3DH-1512-TFD		204					36.3	60	946
W3DH-2512-TSE		248					43.0	70	950
W3WM-0100-CAV		26.2					9.4	15	170
W3WM-0100-TAC		26.2					5.6	15	170
W3WM-0100-TAD		26.2					2.8	15	170
W3WM-0201-TAD		32					3.8	15	233
W7WB-0075-TAC	28.9						3.4	15	166
W7WB-0100-TAC	28.9						4.3	15	172
W7WB-0100-TAD	28.9						2.6	15	172
WFDP-0300-CFB	76			60			33.4	50	491
WFDP-0300-TFC	76			60			22.2	35	491
WFDP-0300-TFD	76			60			10.9	15	490
WFDP-0300-TFE	76			60			9.5	15	491
WFDP-0350-TFC				60			34.0	50	320
WFDP-0350-TFD				60			13.5	20	320
WFDP-0400-TFC			70	60			37.2	60	250
WFDP-0400-TFD			70	60			13.5	20	250
WFDP-0451-TFC		69		60	66	65	27.9	50	489
WFDP-0451-TFD		69		60	66	65	41.3	70	489
WFDP-0500-TFC	143		132	113			39.0	60	636
WFDP-0500-TFD	143		132	113			17.9	30	643
WFDP-0501-TFC		69		60	66	65	27.9	50	480
WFDP-0550-TFC	143		132	113			40.5	70	640
WFDP-0550-TFD	143		132	113			20.9	35	640
WFDP-0550-TFE	143		132	113			14.9	20	640
WFDP-0600-TFC	160		147	127			49.9	80	719
WFDP-0600-TFD	160		147	127			21.9	35	719
WFDP-0700-TFC	160		147	127			53.7	90	728
WFDP-0700-TFD	160		147	127			24	40	728
WFDP-0700-TFE	160		147	127			22.2	35	728
WFDP-0751-TFC		129		113	122	122	40	70	574

Physical and Electrical Data

Semi-hermetic water-cooled condensing units

MODEL	BOM	Compressor Electrical	Length	Width	Height	Liquid Connection	Suction Connection	Discharge Connection	Water Inlet	Water Outlet
WFDP-0751-TFD	001	2DA3R89KE-TFD	46	17	31.41	5/8 S	1 3/8 S	-	1-1/4 FPT	1-1/4 FPT
WFDP-0751-TFE	001	2DA3R89KE-TFE	46	17	31.41	5/8 S	1 3/8 S	-	1-1/4 FPT	1-1/4 FPT
WFDP-1001-TFC	001	3DB3R12ME-TFC	52	17	31.15	7/8 S	1 3/8 S	-	1-1/4 FPT	1-1/4 FPT
WFDP-1001-TFD	001	3DB3R12ME-TFD	52	17	31.15	7/8 S	1-3/8 S	-	1-1/4 FPT	1-1/4 FPT
WFDP-1500-TSD	050	4DHNF63KE-TSK	52.02	21.07	37.15	1 1/8 S	1 5/8 S	-	1 1/2 FPT	1 1/2 FPT
WFDP-2511-TSE	001	4DK3R22ME-TSE	64	21.68	32.77	1 1/8 S	1 5/8 S	1 1/8 S	2" FPT	2" FPT
WFDP-3011-TSE	001	4DRNR28ME-TSE	64	21.68	32.77	1 1/8 S	2 1/8 S	1 3/8 S	2" FPT	2" FPT
WJDL-1501-TSC	050	4DL3F63KE-TSK	52.02	19.04	37.61	1 1/8 S	1 5/8 S	-	1 1/2 FPT	1 1/2 FPT
WJDL-1501-TSD	050	4DL3F63KE-TSK	52.02	19.04	37.61	1 1/8 S	1 5/8 S	-	1 1/2 FPT	1 1/2 FPT
WJDL-2701-TSD	050	6DL3F93KE-TSK	64	22.44	42.97	1 1/8 S	2 1/8 S	1 3/8 S	2" FPT	2" FPT
WJWL-0100-CAV	001	KWJB-010E-CAV	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
WJWL-0100-TAC	001	KWJA-011E-TAC	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
WJWL-0100-TAD	001	KWJA-011E-TAD	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
WJWL-0151-TAC	001	KWLA-016E-TAC	34.8	14.5	16.99	3/8 F	7/8 S	-	3/8 MPT	1/2 FPT
WJWL-0151-TAD	001	KWLA-016E-TAD	34.8	14.5	16.99	3/8 S	7/8 S	-	1/2 FPT	1/2 FPT
WJWL-0303-TAC	050	LAHA-032E-TAC	33.87	17	32.2	1/2 S	1-1/8 S	-	1 1/4 FPT	1 1/4 FPT
WJWL-A201-CAV	001	EAVB-021E-CAV	35.33	14.5	20.4	3/8 S	7/8 S	-	1/2 MPT	1/2 FPT
WJWL-A201-TAC	001	EAVA-021E-TAC	35.33	14.5	20.4	3/8 S	7/8 S	-	1/2 MPT	1/2 FPT
WJWL-A201-TAD	001	EAVA-021E-TAD	35.33	14.5	20.4	3/8 S	7/8 S	-	1/2 MPT	1/2 FPT
WJWL-A201-TAE	001	EAVA-021E-TAE	35.33	14.5	20.4	3/8 S	7/8 S	-	1/2 MPT	1/2 FPT
WJWM-0075-CAV	001	KWNB-007E-CAV	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
WJWM-0075-TAC	001	KWNA-007E-TAC	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
WJWM-0100-CAV	007	KARB-010E-CAV	28.6	14.5	17	3/8 S	5/8 S	-	3/8 MPT	1/2 FPT
WJWM-0100-TAC	001	KWRA-010E-TAC	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
WJWM-0100-TAD	007	KARA-010E-TAC	29.07	17.75	17.53	3/8 S	5/8 S	-	3/8 MPT	1/2 FPT
WJWM-0152-CAV	007	KAGB-010E-CAV	35	19	17.63	1/4 S	5/8 S	-	1/2 MPT	1/2 FPT
WJWM-0152-TAC	001	KWGA-010E-TAC	34.8	14.5	16.99	3/8 F	7/8 S	-	3/8 MPT	1/2 FPT
WJWM-0152-TAD	007	KAGA-010E-TAC	34.8	14.5	16.99	3/8 S	7/8 S	-	1/2 MPT	1/2 FPT
WJWM-0202-TAC	001	KWKA-020E-TAC	34.8	14.5	17.67	3/8 S	7/8 S	-	1/2 FPT	1/2 FPT
WJWM-0203-TAC	001	ERCA-021E-TAC	34	14.5	20.4	3/8 S	7/8 S	-	1/2 FPT	1/2 FPT
WJWM-0203-TAD	001	ERCA-020E-TAD	34	14.5	20.4	3/8 S	7/8 S	-	1/2 FPT	1/2 FPT
WJWM-0300-TAC	001	ERFA-031E-TAC	30	17	24	1/2 S	1-1/8 S	-	1 1/4 FPT	1 1/4 FPT
WJWM-0300-TAD	001	ERFA-031E-TAD	30	17	24	1/2 S	1-1/8 S	-	1 1/4 FPT	1 1/4 FPT
WJWM-0300-TAE	001	ERFA-031E-TAE	30	17	24	1/2 S	1-1/8 S	-	1 1/4 FPT	1 1/4 FPT
WJWU-0500-TFC	001	9TK2-050E-TFC	41.11	20.26	31.21	5/8 S	1-3/8 S	-	1-1/4 FPT	1-1/4 FPT
WSWM-0075-TAC	001	KWG1-0075-TAC	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
WSWM-0100-TAC	001	KWK1-0100-TAC	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
WTWH-0075-CAV	001	KWMB-007E-CAV	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
WTWH-0100-CAV	001	KWJB-010E-CAV	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
WTWH-0100-TAC	001	KWJA-011E-TAC	27.3	14.5	17.5	3/8 S	5/8 S	-	3/4 FPT	3/4 FPT
WTWH-A201-CAV	001	EAVB-021E-CAV	35.33	14.5	20.4	3/8 S	7/8 S	-	1/2 MPT	1/2 FPT
WTWH-A201-TAC	001	EAVA-021E-TAC	35.64	18.75	21.11	3/8 S	7/8 S	-	1/2 MPT	1/2 FPT
WTWH-A201-TAD	001	EAVA-021E-TAD	35.33	14.5	20.4	3/8 S	7/8 S	-	1/2 FPT	1/2 FPT
WTWM-0300-TAC	050	LAHA-031E-TAC	33.87	17	32.2	1/2 S	1-1/8 S	-	1 1/4 FPT	1 1/4 FPT

Physical and Electrical Data

Semi-hermetic water-cooled condensing units

MODEL	Receiver Capacity (Lbs @ 90% Volume)						MCA	Max Fuse	Ship Weight
	R-12	R-22	134a	404A	407A	407C			
WFDP-0751-TFD		129		113	122	122	17.6	30	574
WFDP-0751-TFE		129		113	122	122	16.6	25	574
WFDP-1001-TFC		145		127	137	136	54.5	90	730
WFDP-1001-TFD		145		127	137	136	25	45	730
WFDP-1500-TSD				136			33.6	50	900
WFDP-2511-TSE		248		216	234	233	48.5	80	1100
WFDP-3011-TSE		248		216	234	233	61.6	110	1100
WJDL-1501-TSC				136			66.9	110	865
WJDL-1501-TSD				136			33.6	50	865
WJDL-2701-TSD				136			51.2	90	1195
WJWL-0100-CAV				22.8			8.6	15	177
WJWL-0100-TAC				22.8			5.8	15	200
WJWL-0100-TAD				22.8			2.6	15	189
WJWL-0151-TAC				28.4			8.3	15	214
WJWL-0151-TAD				28.4			4.3	15	224
WJWL-0303-TAC				52			17.2	25	405
WJWL-A201-CAV				30.7			19.0	30	314
WJWL-A201-TAC				30.7			9.9	15	308
WJWL-A201-TAD				30.7			5.4	15	325
WJWL-A201-TAE				30.7			4.5	15	325
WJWM-0075-CAV				22.8			6.8	15	174
WJWM-0075-TAC				22.8			3.8	15	177
WJWM-0100-CAV				22.8			9.9	15	198
WJWM-0100-TAC				22.8			5.4	15	201
WJWM-0100-TAD				22.8			6.0	15	210
WJWM-0152-CAV				28.4			10.0	15	225
WJWM-0152-TAC				28.4			5.4	15	178
WJWM-0152-TAD				28.4			6.0	15	232
WJWM-0202-TAC				30.7			8.5	15	225
WJWM-0203-TAC				30.7			11.0	15	270
WJWM-0203-TAD				30.7			4.4	15	306
WJWM-0300-TAC				52			15.5	25	326
WJWM-0300-TAD				52			7.3	15	326
WJWM-0300-TAE				52			6.5	15	326
WJWU-0500-TFC				60			25.4	45	566
WSWM-0075-TAC	28.9						3.3	15	166
WSWM-0100-TAC	28.9						4.1	15	202
WTWH-0075-CAV			26.5				7.0	15	178
WTWH-0100-CAV			26.5				8.6	15	176
WTWH-0100-TAC			26.5				5.8	15	176
WTWH-A201-CAV			35.9				19.0	30	311
WTWH-A201-TAC			35.9				9.9	15	311
WTWH-A201-TAD			35.9				5.4	15	320
WTWM-0300-TAC			61				11.8	15	376

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Copeland Scroll™ X-Line

Outdoor Refrigeration Units



Product Information

Horsepower:	3/4 – 6
Temperature Applications:	Low/Medium/High
Refrigerants:	R-134a, R-22, R-404A, R-407A, R-407C, R-448A, R-449A, R-507
Installation Applications:	A variety of applications including walk-in boxes, display cases, island cases, soft serve

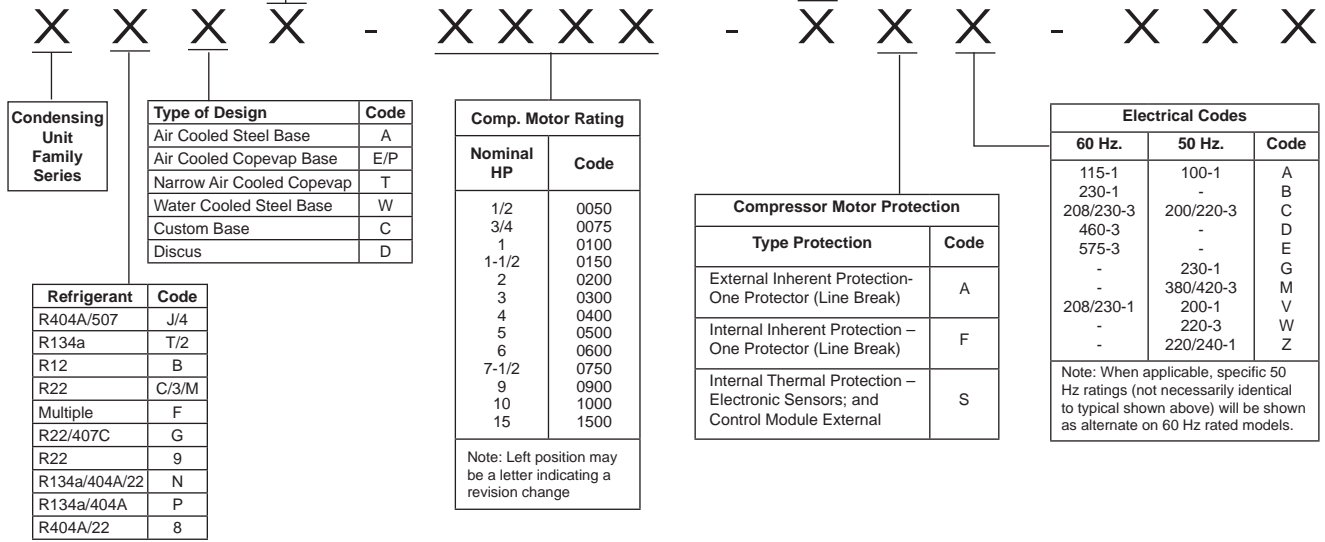


Nomenclature • Welded Condensing Units

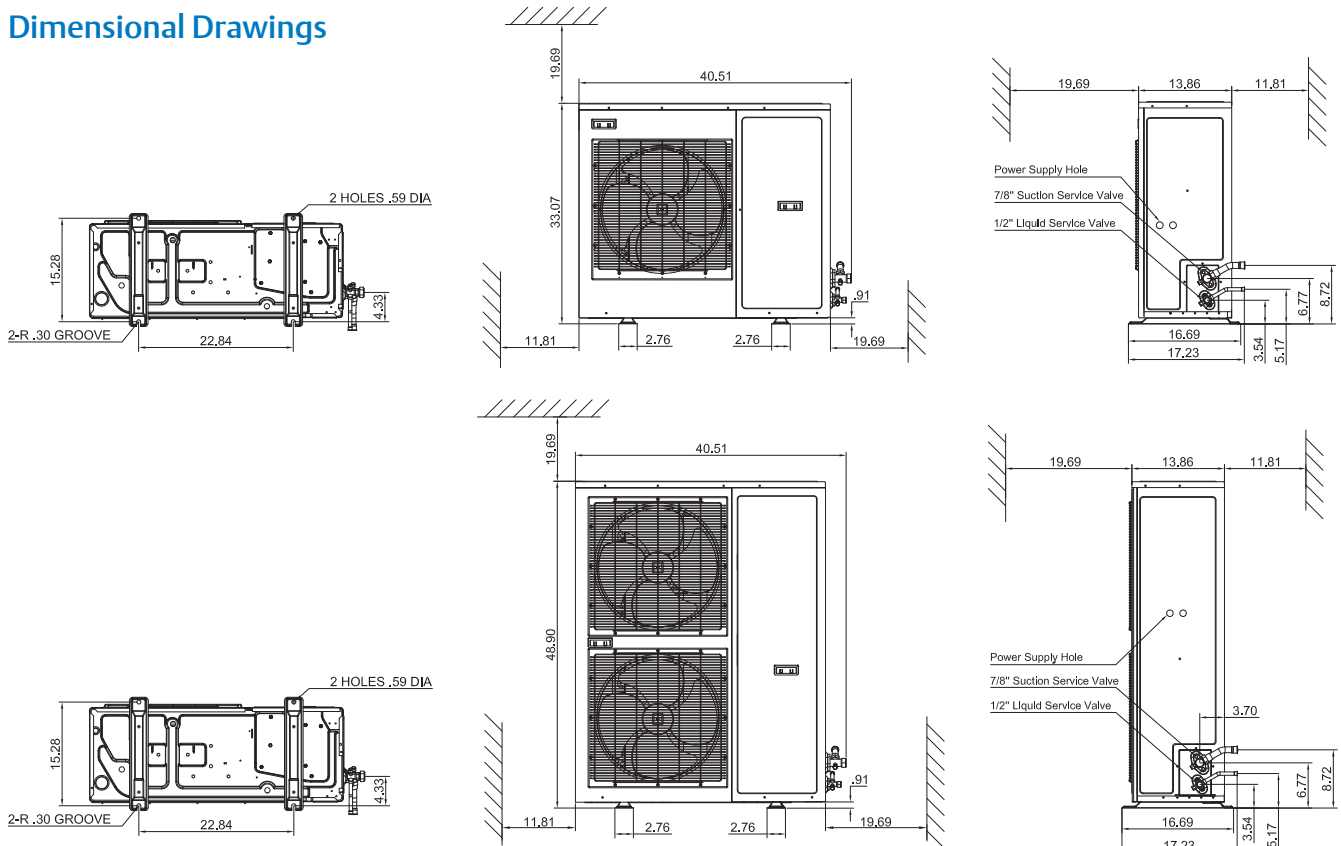
Temperature Application	Code
High Temperature	H
Medium Temperature	M
Low Temperature	L
Extended Medium Temp.	F
Extra Low Temperature	E
Multiple	S
Multiple	N
Multiple	P
R-404A LT and R-134a HT	K

Compressor Motor Types		
Phase	Description	Code
1	Capacitor Run - Capacitor Start	C
1	Induction Run - Capacitor Start	I
1	Induction Run - Split Phase	S
1	Capacitor Run - Permanent Split	P
3	Three Phase - General 3 Lead Single Voltage 6 Lead Part Winding 575V 9 Lead Dual Voltage	T
3	Star (Wye) Delta	E
3	6 Lead - Part Winding or Across the Line	F

Bill Of Material (BOM)	
001 thru 099	Intended for UL Listing and CUL Certified
100 thru 299	Intended for UL Recognition and CUL Certified
300 thru 399	Not eligible for either UL Listing, UL Recognition or CUL Certified



Dimensional Drawings



Copeland Scroll™ outdoor condensing units

Features	Benefits
Copeland Scroll Compressor Variable Speed Fan Motor	Reliability
	High Energy Efficiency
	Low Sound & Vibration
Advanced Diagnostics and Protection Features	Faster Troubleshooting Warranty Reduction
Factory Installed EK Filter Drier and HMI Moisture Indicator	Fewer Leaks, Reduced Callbacks, Lower Installation Costs, Increased Equipment Reliability, Lower Warranty
Slim Profile Design and Light Weight	Application Flexibility

Resources and Support

EmersonClimate.com/CopelandOutdoorUnit

■ Online Product Information and Technical Data

- Application Engineering Bulletins
- Instruction Sheets
- Marketing Brochures
- Videos

■ Product Selection Tools

- Walk-In Box Load Calculator
- Energy Savings Calculator

■ Where to Buy

Application Engineering Bulletins

- 4-1273 Factors to Consider in Converting Compressor Rated Capacity to Actual Capacity
- 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
- 4-1327 Economized Vapor Injection (EVI) Compressors
- 4-1387 Application Guidelines for ZS**KAE Copeland Scroll™ Refrigeration Compressors 1.3-4.5 HP
- 5-1377 Copeland Scroll Outdoor Condensing Unit
- 5-1412 Copeland Scroll Outdoor Refrigeration Unit Installation and Reference Manual
- 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

Sound Data

	Model	dBa*
MED TEMP	Single fan	55
	Double fan	58
LOW TEMP	Single fan	53
	Double fan	59

Sound pressure values are 10 feet from the unit at 25°F evap for MT and -10°F evap for LT at 90°F ambient. A sound reduction of up to 3 dBA will occur in ambient temperatures below 70°F. This data is typical of “free field” conditions for horizontal air cooled condensing units and may vary depending on the condensing unit installation. There are many factors that affect the sound reading of a condensing unit such as unit mounting, reflecting walls, background noise and operating condition.

Correction Factor	Refrigerant Liquid Temperature °F														
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
R-12	1.60	1.54	1.48	1.42	1.36	1.30	1.24	1.18	1.12	1.06	1.00	.94	.88	.82	.75
R-134a	1.70	1.63	1.56	1.49	1.42	1.36	1.29	1.21	1.14	1.07	1.00	.93	.85	.78	.71
R-22	1.56	1.51	1.45	1.40	1.34	1.29	1.23	1.17	1.12	1.06	1.00	.94	.88	.82	.76
R-404A/R-507	2.00	1.90	1.80	1.70	1.60	1.50	1.40	1.30	1.20	1.10	1.00	.90	.80	.70	.50

Bill of Materials Matrix

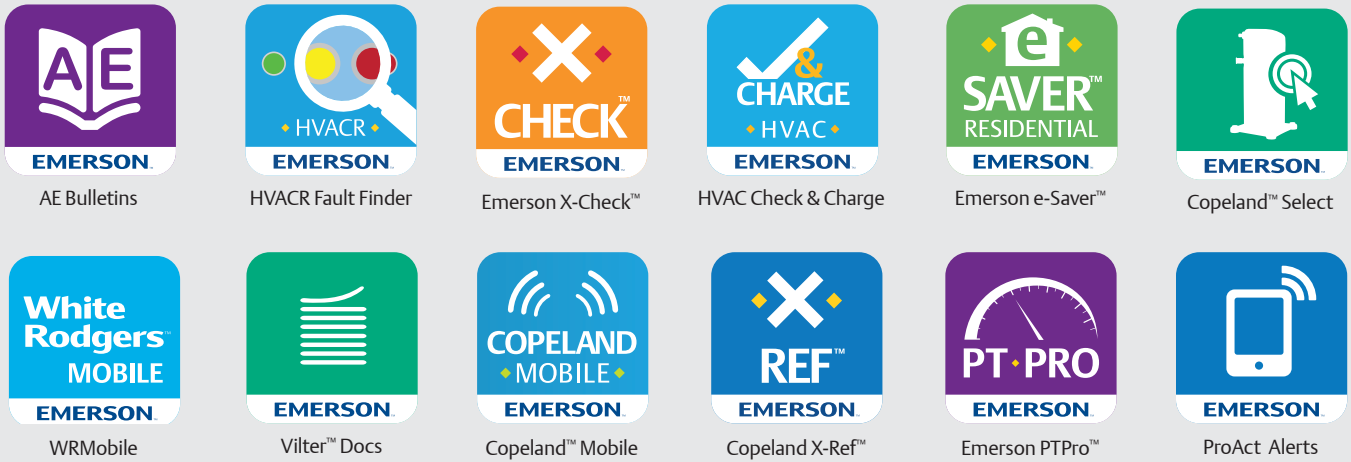
BOM	Features																UL
	Receiver W/ Valve	Receiver Heater / Insulation	Suction Valve	Liquid Valve	Accumulator	Oil Separator (Low Temp Only)	Pressure Controls (Adjustable low, Fixed High)	Defrost Control	Filter Drier	Moisture Indicator / Sight Glass	Crankcase Heater	Variable Speed Condenser Fan	Demand Cooling Low Temp - Enhanced Vapor Injection (EVI) Med/Ext Med Temp - Suction Line Liquid Injecton	Two-Way Communication	CoreSense™ Diagnostics / Protection	Listed	Recognized
081	X	X	X	X	XFAL XFAP Only	X	X	X	X	X	X	X	X	X	X	X	

Base Model	MT Indoor AWEF						
	R-134a	R-22	R-404A	R-407A	R-407C	R-448A	R-449A
XFAM-008Z	Data not available at time of printing. See Emerson.com/OPI for updated information.						
XFAM-010Z	Data not available at time of printing. See Emerson.com/OPI for updated information.						
XFAM-012Z	Data not available at time of printing. See Emerson.com/OPI for updated information.						
XFAM/P-015Z	7.73	7.22	7.27	7.55	6.81	6.85	6.85
XFAM/P-017Z	7.84	7.51	7.49	7.55	7.00	7.12	7.12
XFAM/P-022Z	7.74	7.73	7.45	7.60	7.01	7.07	7.10
XFAM/P-030Z	8.07	8.31	7.19	7.49	7.43	7.28	7.28
XFAM/P-045Z	7.85	8.00	7.18	7.05	7.20	7.27	7.27
XFAM/P-050Z	7.54	7.98	7.01	7.17	7.13	7.11	7.11
XFAM/P-060Z	7.46	7.96	6.88	7.12	7.06	6.98	6.98

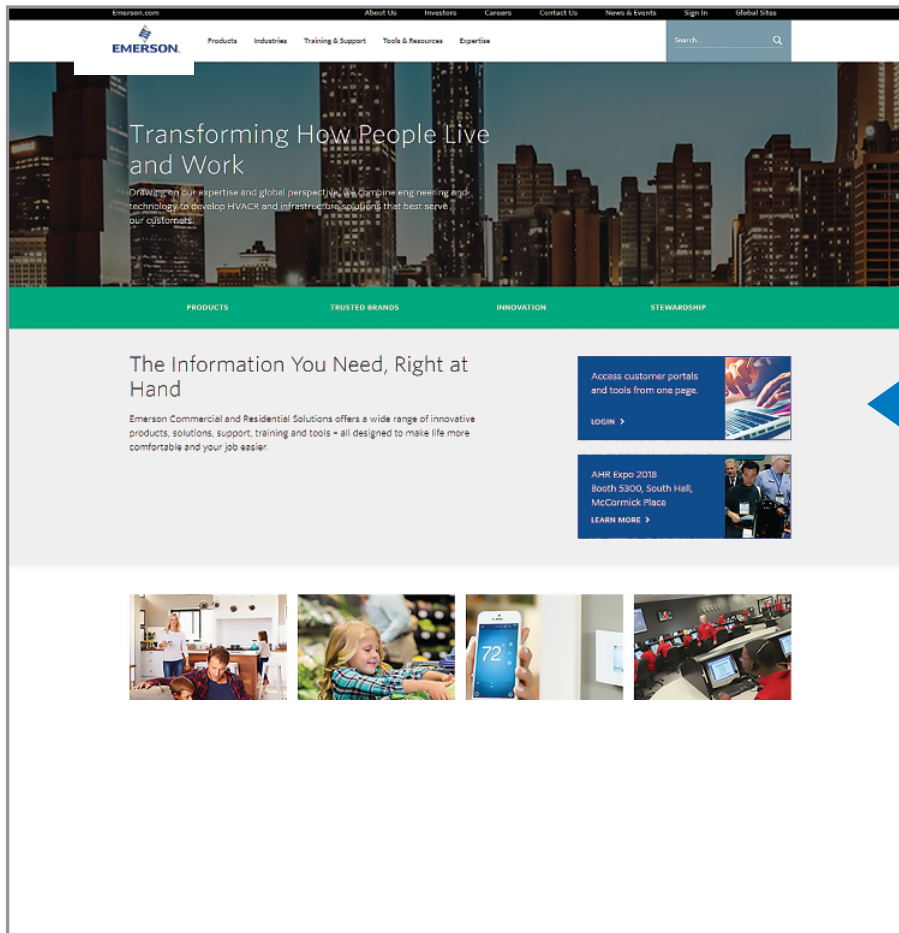
Base Model	MT Outdoor AWEF (Factory Settings)						MT Outdoor AWEF (With 50°F Min. Cond. Temp. Settings)							
	R-134a	R-22	R-404A	R-407A	R-407C	R-448A	R-449A	R-134a	R-22	R-404A	R-407A	R-407C	R-448A	R-449A
XFAM-008Z	Data not available at time of printing. See Emerson.com/OPI for updated information.						Data not available at time of printing. See Emerson.com/OPI for updated information.							
XFAM-010Z	Data not available at time of printing. See Emerson.com/OPI for updated information.						Data not available at time of printing. See Emerson.com/OPI for updated information.							
XFAM-012Z	Data not available at time of printing. See Emerson.com/OPI for updated information.						Data not available at time of printing. See Emerson.com/OPI for updated information.							
XFAM/P-015Z	9.57	8.87	9.79	9.82	9.70	9.17	9.20	10.11	8.87	10.18	10.28	10.03	9.51	9.54
XFAM/P-017Z	9.97	9.29	10.22	9.98	10.01	9.62	9.62	10.45	9.29	10.58	10.44	10.36	10.06	10.08
XFAM/P-022Z	10.08	9.87	10.39	10.27	10.22	9.79	9.79	10.51	9.87	10.74	10.72	10.53	10.23	10.23
XFAM/P-030Z	10.81	10.93	10.41	10.50	10.96	10.40	10.41	11.22	10.93	10.73	10.82	11.30	10.75	10.76
XFAM/P-045Z	10.51	10.46	10.37	9.93	10.57	10.38	10.38	10.90	10.46	10.65	10.21	10.90	10.66	10.66
XFAM/P-050Z	9.22	9.59	9.17	9.25	9.26	9.31	9.28	9.22	9.59	9.17	9.51	9.47	9.25	9.25
XFAM/P-060Z	9.45	9.90	9.36	9.43	9.42	9.48	9.48	9.45	9.90	9.33	9.74	9.62	9.56	9.54

This refrigeration system is designed and certified for use in walk-in cooler applications.

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Physical and Electrical Data

Copeland Scroll Outdoor Refrigeration Units - XF Series

Model	Compressor	Chassis Size (# Fans)	Dimensions			Refrigerant Connections		Receiver Capacity (Lbs @ 90% Volume)						MCA	Max Fuse	Defrost Relay Rating† (Amps)	Ship Weight
			L	W	H	Liquid	Suction	134a	22	404A	407A	407C	448A 449A				
XFAL-008Z-CFV	ZF03KAE-PFV	1	16.7	40.5	33.1	1/2 S	7/8 S			9.1	10	10	9.7	9.1	15	40	246
XFAL-008Z-TFC	ZF03KAE-TF5	1	16.7	40.5	33.1	1/2 S	7/8 S			9.1	10	10	9.7	6.2	15	40	246
XFAL-009Z-CFV	ZF04KAE-PFV	1	16.7	40.5	33.1	1/2 S	7/8 S			9.1	10	10	9.7	10.3	15	40	246
XFAL-009Z-TFC	ZF04KAE-TF5	1	16.7	40.5	33.1	1/2 S	7/8 S			9.1	10	10	9.7	9.3	15	40	246
XFAL-010Z-CFV	ZF05KAE-PFV	1	16.7	40.5	33.1	1/2 S	7/8 S			9.1	10	10	9.7	11.9	15	40	246
XFAL-010Z-TFC	ZF05KAE-TF5	1	16.7	40.5	33.1	1/2 S	7/8 S			9.1	10	10	9.7	10.4	15	40	246
XFAL-012Z-CFV	ZF07KAE-PFV	1	16.7	40.5	33.1	1/2 S	7/8 S			9.1	10	10	9.7	18.4	30	40	246
XFAL-012Z-TFC	ZF07KAE-TF5	1	16.7	40.5	33.1	1/2 S	7/8 S			9.1	10	10	9.7	11.8	15	40	246
XFAL-020Z-CFV	ZXI06KCE-PFV	1	16.7	40.5	33.1	1/2 S	7/8 S			9.1	10	10	9.7	21.55	35	40	246
XFAL-020Z-TFC	ZXI06KCE-TF5	1	16.7	40.5	33.1	1/2 S	7/8 S			9.1	10	10	9.7	16.18	25	40	246
XFAL-030Z-TFC	ZXI09KCE-TF5	1	16.7	40.5	33.1	1/2 S	7/8 S			9.1	10	10	9.7	17.18	25	40	246
XFAL-035Z-CFV	ZXI11KCE-PFV	1	16.7	40.5	33.1	1/2 S	7/8 S			9.1	10	10	9.7	34.05	50	40	272
XFAL-040Z-CFV	ZXI14KCE-PFV	2	16.7	40.5	48.9	1/2 S	7/8 S			13.4	14.8	14.7	14.2	40.1	60	40	274
XFAL-040Z-TFC	ZXI14KCE-TF5	2	16.7	40.5	48.9	1/2 S	7/8 S			13.4	14.8	14.7	14.2	27.1	45	40	312
XFAL-050Z-TFC	ZXI15KCE-TF5	2	16.7	40.5	48.9	1/2 S	7/8 S			13.4	14.8	14.7	14.2	28.85	45	40	323
XFAL-051Z-CFV	ZXI16KCE-PFV	2	16.7	40.5	48.9	1/2 S	7/8 S			13.4	14.8	14.7	14.2	44.73	70	40	343
XFAL-060Z-TFC	ZXI18KCE-TF5	2	16.7	40.5	48.9	1/2 S	7/8 S			13.4	14.8	14.7	14.2	33.98	50	40	341
XFAM-008Z-CFV	ZB06KAE-PFV	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	9.3	15	40	218
XFAM-008Z-TFC	ZB06KAE-TF5	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	8.05	15	40	218
XFAM-010Z-CFV	ZB07KAE-PFV	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	9.3	15	40	218
XFAM-010Z-TFC	ZB07KAE-TF5	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	8.1	15	40	218
XFAM-012Z-CFV	ZB08KAE-PFV	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	11.1	15	40	218
XFAM-012Z-TFC	ZB08KAE-TF5	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	8.1	15	40	218
XFAM-015Z-CFV	ZS09KAE-PFV	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	13.55	20	40	218
XFAM-015Z-TFC	ZS09KAE-TF5	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	11.05	15	40	219
XFAM-017Z-CFV	ZS11KAE-PFV	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	16.8	25	40	219
XFAM-017Z-TFC	ZS11KAE-TF5	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	14.05	20	40	219
XFAM-022Z-CFV	ZS15KAE-PFV	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	20.68	35	40	220
XFAM-022Z-TFC	ZS15KAE-TF5	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	14.3	20	40	219
XFAM-030Z-CFV	ZS21KAE-PFV	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	30.05	50	40	236
XFAM-030Z-TFC	ZS21KAE-TF5	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	20.05	30	40	236
XFAM-045Z-CFV	ZS33KAE-PFV	2	16.7	40.5	48.9	1/2 S	7/8 S	15.7	15.5	13.4	14.8	14.7	14.2	37.35	60	40	285
XFAM-045Z-TFC	ZS33KAE-TF5	2	16.7	40.5	48.9	1/2 S	7/8 S	15.7	15.5	13.4	14.8	14.7	14.2	29.98	50	40	280
XFAM-050Z-CFV	ZS38K4E-PFV	2	16.7	40.5	48.9	1/2 S	7/8 S	15.7	15.5	13.4	14.8	14.7	14.2	41.85	70	40	292
XFAM-050Z-TFC	ZS38K4E-TF5	2	16.7	40.5	48.9	1/2 S	7/8 S	15.7	15.5	13.4	14.8	14.7	14.2	28.85	45	40	292
XFAM-060Z-TFC	ZS45K4E-TF5	2	16.7	40.5	48.9	1/2 S	7/8 S	15.7	15.5	13.4	14.8	14.7	14.2	31.98	50	40	299
XFAP-015Z-CFV	ZS09KAE-PFV	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	13.55	20	40	233
XFAP-015Z-TFC	ZS09KAE-TF5	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	11.05	15	40	234
XFAP-017Z-CFV	ZS11KAE-PFV	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	16.8	25	40	234
XFAP-017Z-TFC	ZS11KAE-TF5	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	14.05	20	40	234
XFAP-022Z-CFV	ZS15KAE-PFV	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	20.68	35	40	235
XFAP-022Z-TFC	ZS15KAE-TF5	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	14.3	20	40	234
XFAP-030Z-CFV	ZS21KAE-PFV	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	30.05	50	40	251
XFAP-030Z-TFC	ZS21KAE-TF5	1	16.7	40.5	33.1	1/2 S	7/8 S	10.7	10.5	9.1	10	10	9.7	20.05	30	40	251
XFAP-045Z-CFV	ZS33KAE-PFV	2	16.7	40.5	48.9	1/2 S	7/8 S	15.7	15.5	13.4	14.8	14.7	14.2	37.35	60	40	300
XFAP-045Z-TFC	ZS33KAE-TF5	2	16.7	40.5	48.9	1/2 S	7/8 S	15.7	15.5	13.4	14.8	14.7	14.2	29.98	50	40	295
XFAP-050Z-CFV	ZS38K4E-PFV	2	16.7	40.5	48.9	1/2 S	7/8 S	15.7	15.5	13.4	14.8	14.7	14.2	41.85	70	40	307
XFAP-050Z-TFC	ZS38K4E-TF5	2	16.7	40.5	48.9	1/2 S	7/8 S	15.7	15.5	13.4	14.8	14.7	14.2	28.85	45	40	307
XFAP-060Z-TFC	ZS45K4E-TF5	2	16.7	40.5	48.9	1/2 S	7/8 S	15.7	15.5	13.4	14.8	14.7	14.2	31.98	50	40	314

** Max Over-current rating applies to the condensing unit only. Additional evaporator fan or defrost heater loads must be considered. See evaporator manufacturer literature for additional load requirements.

† Defrost relay for single phase heaters only. For three-phase heaters, additional contactors are required.

R-134a Medium Temp

Copeland Scroll Outdoor Refrigeration Units – XF Series

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
90° Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV											
XFAM-008Z-TFC	ZB06KAE-TF5											
XFAM-010Z-CFV	ZB07KAE-PFV											
XFAM-010Z-TFC	ZB07KAE-TF5											
XFAM-012Z-CFV	ZB08KAE-PFV											
XFAM-012Z-TFC	ZB08KAE-TF5											
XFAM-015Z-CFV	ZS09KAE-PFV	4380	4970	5610	6310	7070	7900	8020	8920	9900	11000	12100
XFAM-015Z-TFC	ZS09KAE-TF5	4380	4970	5610	6310	7070	7900	8020	8920	9900	11000	12100
XFAM-017Z-CFV	ZS11KAE-PFV	5210	5920	6680	7510	8400	9380	9520	10600	11700	13000	14300
XFAM-017Z-TFC	ZS11KAE-TF5	5220	5920	6680	7510	8400	9380	9520	10600	11700	13000	14300
XFAM-022Z-CFV	ZS15KAE-PFV	7120	8070	9100	10200	11400	12700	12900	14400	15900	17500	19300
XFAM-022Z-TFC	ZS15KAE-TF5	7120	8070	9100	10200	11400	12700	12900	14400	15900	17500	19300
XFAM-030Z-CFV	ZS21KAE-PFV	10700	12100	13600	15200	17000	18900	19200	21300	23500	25900	28400
XFAM-030Z-TFC	ZS21KAE-TF5	10700	12100	13600	15200	17000	18900	19200	21300	23500	25900	28400
XFAM-045Z-CFV	ZS33KAE-PFV	14700	16600	18600	20900	23300	25900	26400	29200	32300	35500	39000
XFAM-045Z-TFC	ZS33KAE-TF5	14700	16600	18600	20900	23300	25900	26400	29200	32300	35500	39000
XFAM-050Z-CFV	ZS38K4E-PFV	16200	18100	20300	22500	24900	27500	30300	33500	37000	40600	44500
XFAM-050Z-TFC	ZS38K4E-TF5	16200	18100	20300	22500	24900	27500	30300	33500	37000	40600	44500
XFAM-060Z-TFC	ZS45K4E-TF5	19500	21900	24400	27000	29900	32900	35900	39800	43900	48200	53000
95 Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV											
XFAM-008Z-TFC	ZB06KAE-TF5											
XFAM-010Z-CFV	ZB07KAE-PFV											
XFAM-010Z-TFC	ZB07KAE-TF5											
XFAM-012Z-CFV	ZB08KAE-PFV											
XFAM-012Z-TFC	ZB08KAE-TF5											
XFAM-015Z-CFV	ZS09KAE-PFV	4270	4840	5460	6140	6880	7680	7810	8690	9640	10700	11800
XFAM-015Z-TFC	ZS09KAE-TF5	4270	4840	5460	6140	6880	7680	7810	8690	9640	10700	11800
XFAM-017Z-CFV	ZS11KAE-PFV	5075	5760	6495	7300	8165	9115	9265	10300	11400	12650	13950
XFAM-017Z-TFC	ZS11KAE-TF5	5080	5760	6495	7300	8165	9115	9265	10300	11400	12650	13950
XFAM-022Z-CFV	ZS15KAE-PFV	6935	7855	8850	9925	11100	12350	12550	14000	15450	17050	18800
XFAM-022Z-TFC	ZS15KAE-TF5	6935	7855	8850	9925	11100	12350	12550	14000	15450	17050	18800
XFAM-030Z-CFV	ZS21KAE-PFV	10400	11800	13200	14800	16500	18300	18700	20700	22800	25200	27600
XFAM-030Z-TFC	ZS21KAE-TF5	10400	11800	13200	14800	16500	18300	18700	20700	22800	25200	27600
XFAM-045Z-CFV	ZS33KAE-PFV	14300	16100	18100	20300	22600	25200	25600	28400	31400	34500	37900
XFAM-045Z-TFC	ZS33KAE-TF5	14300	16100	18100	20300	22600	25200	25600	28400	31400	34500	37900
XFAM-050Z-CFV	ZS38K4E-PFV	16300	18500	21000	23600	26400		29900	33100	36400	40000	43600
XFAM-050Z-TFC	ZS38K4E-TF5	16300	18500	21000	23600	26400		29900	33100	36400	40000	43600
XFAM-060Z-TFC	ZS45K4E-TF5	19600	22100	24800	27800	30900		35000	38700	42700	46900	51500

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

All capacities shown for XFAM models also apply to XFAP models

Shaded area = 20°F max superheat

R-134a Medium Temp

Copeland Scroll Outdoor Refrigeration Units – XF Series

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
100° Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV											
XFAM-008Z-TFC	ZB06KAE-TF5											
XFAM-010Z-CFV	ZB07KAE-PFV											
XFAM-010Z-TFC	ZB07KAE-TF5											
XFAM-012Z-CFV	ZB08KAE-PFV											
XFAM-012Z-TFC	ZB08KAE-TF5											
XFAM-015Z-CFV	ZS09KAE-PFV	4150	4710	5310	5960	6680	7450	7590	8440	9370	10400	11400
XFAM-015Z-TFC	ZS09KAE-TF5	4150	4710	5310	5960	6680	7450	7590	8440	9370	10400	11400
XFAM-017Z-CFV	ZS11KAE-PFV	4940	5600	6310	7090	7930	8850	9010	10000	11100	12300	13600
XFAM-017Z-TFC	ZS11KAE-TF5	4940	5600	6310	7090	7930	8850	9010	10000	11100	12300	13600
XFAM-022Z-CFV	ZS15KAE-PFV	6750	7640	8600	9650	10800	12000	12200	13600	15000	16600	18300
XFAM-022Z-TFC	ZS15KAE-TF5	6750	7640	8600	9650	10800	12000	12200	13600	15000	16600	18300
XFAM-030Z-CFV	ZS21KAE-PFV	10100	11400	12800	14400	16000	17800	18200	20100	22200	24500	26900
XFAM-030Z-TFC	ZS21KAE-TF5	10100	11400	12800	14400	16000	17800	18200	20100	22200	24500	26900
XFAM-045Z-CFV	ZS33KAE-PFV	13900	15700	17600	19700	22000	24400	24900	27600	30500	33600	36900
XFAM-045Z-TFC	ZS33KAE-TF5	13900	15700	17600	19700	22000	24400	24900	27600	30500	33600	36900
XFAM-050Z-CFV	ZS38K4E-PFV	15300	17100	19100	21300	23500	26000	28600	31700	35000	38400	42100
XFAM-050Z-TFC	ZS38K4E-TF5	15300	17100	19100	21300	23500	26000	28600	31700	35000	38400	42100
XFAM-060Z-TFC	ZS45K4E-TF5	18500	20700	23100	25600	28300	31200	34000	37600	41500	45700	50000
100° Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV											
XFAM-008Z-TFC	ZB06KAE-TF5											
XFAM-010Z-CFV	ZB07KAE-PFV											
XFAM-010Z-TFC	ZB07KAE-TF5											
XFAM-012Z-CFV	ZB08KAE-PFV											
XFAM-012Z-TFC	ZB08KAE-TF5											
XFAM-015Z-CFV	ZS09KAE-PFV	3920	4440	5000	5620	6280	7010	7170	7970	8840	9780	10800
XFAM-015Z-TFC	ZS09KAE-TF5	3920	4440	5000	5620	6280	7010	7170	7970	8840	9780	10800
XFAM-017Z-CFV	ZS11KAE-PFV	4660	5280	5950	6670	7460	8310	8510	9450	10500	11600	12800
XFAM-017Z-TFC	ZS11KAE-TF5	4660	5280	5950	6670	7460	8310	8510	9450	10500	11600	12800
XFAM-022Z-CFV	ZS15KAE-PFV	6360	7190	8090	9060	10100	11300	11500	12800	14200	15600	17200
XFAM-022Z-TFC	ZS15KAE-TF5	6360	7190	8090	9060	10100	11300	11500	12800	14200	15600	17200
XFAM-030Z-CFV	ZS21KAE-PFV		10700	12000	13500	15000	16700	17100	18900	20900	23000	25200
XFAM-030Z-TFC	ZS21KAE-TF5		10700	12000	13500	15000	16700	17100	18900	20900	23000	25200
XFAM-045Z-CFV	ZS33KAE-PFV		14700	16500	18500	20600	22900	23400	25900	28600	31500	34700
XFAM-045Z-TFC	ZS33KAE-TF5		14700	16500	18500	20600	22900	23400	25900	28600	31500	34700
XFAM-050Z-CFV	ZS38K4E-PFV	14400	16100	18000	20000	22100	24400	27000	29800	32900	36200	39700
XFAM-050Z-TFC	ZS38K4E-TF5	14400	16100	18000	20000	22100	24400	27000	29800	32900	36200	39700
XFAM-060Z-TFC	ZS45K4E-TF5	17500	19600	21800	24200	26700	29400	32100	35500	39100	43000	47200

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

All capacities shown for XFAM models also apply to XFAP models

Shaded area = 20°F max superheat

R-22 Medium Temp

Copeland Scroll Outdoor Refrigeration Units – XF Series

Model	Compressor	15	20	25@40	25@65	30	35	40	45	
90° Ambient										
XFAM-015Z-CFV	ZS09KAE-PFV	9990	11100	12200	12200	13400	14700	16200	17700	
XFAM-015Z-TFC	ZS09KAE-TF5	9990	11100	12200	12200	13400	14700	16200	17700	
XFAM-017Z-CFV	ZS11KAE-PFV	11800	13100	14500	14400	15900	17400	19100	20900	
XFAM-017Z-TFC	ZS11KAE-TF5	11800	13100	14500	14400	15900	17400	19100	20900	
XFAM-022Z-CFV	ZS15KAE-PFV	15800	17400	19200	19200	21000	23000	25200	27500	
XFAM-022Z-TFC	ZS15KAE-TF5	15800	17400	19200	19200	21000	23000	25200	27500	
XFAM-030Z-CFV	ZS21KAE-PFV	23400	25900	28400	28400	31000	33900	36900	40100	
XFAM-030Z-TFC	ZS21KAE-TF5	23400	25900	28400	28400	31000	33900	36900	40100	
XFAM-045Z-CFV	ZS33KAE-PFV	32100	35500	39000	39000	42700	46600	50500	55000	
XFAM-045Z-TFC	ZS33KAE-TF5	32100	35500	39000	39000	42700	46600	50500	55000	
XFAM-050Z-CFV	ZS38K4E-PFV	33800	36900	40100	44200	48300	52500	57500	62000	
XFAM-050Z-TFC	ZS38K4E-TF5	33800	36900	40100	44200	48300	52500	57500	62000	
XFAM-060Z-TFC	ZS45K4E-TF5	40000	43700	47500	52500	57500	63000	68500	74000	
95° Ambient										
XFAM-015Z-CFV	ZS09KAE-PFV	9870	10900	12100	12100	13300	14600	16000	17500	
XFAM-015Z-TFC	ZS09KAE-TF5	9870	10900	12100	12100	13300	14600	16000	17500	
XFAM-017Z-CFV	ZS11KAE-PFV	11500	12750	14100	14100	15500	16950	18600	20350	
XFAM-017Z-TFC	ZS11KAE-TF5	11500	12750	14100	14100	15500	16950	18600	20350	
XFAM-022Z-CFV	ZS15KAE-PFV	15350	16950	18700	18700	20450	22400	24500	26750	
XFAM-022Z-TFC	ZS15KAE-TF5	15350	16950	18700	18700	20450	22400	24500	26750	
XFAM-030Z-CFV	ZS21KAE-PFV	22800	25100	27600	27600	30200	33000	35900	39000	
XFAM-030Z-TFC	ZS21KAE-TF5	22800	25100	27600	27600	30200	33000	35900	39000	
XFAM-045Z-CFV	ZS33KAE-PFV	31200	34500	37900	37900	41500	45200	49300	53500	
XFAM-045Z-TFC	ZS33KAE-TF5	31200	34500	37900	37900	41500	45200	49300	53500	
XFAM-050Z-CFV	ZS38K4E-PFV	35700	39200	43000	47100	47100	51500	56000	60500	
XFAM-050Z-TFC	ZS38K4E-TF5	35700	39200	43000	47100	47100	51500	56000	60500	
XFAM-060Z-TFC	ZS45K4E-TF5	42400	46700	51500	51500	56000	61000	66500	72000	
100° Ambient										
XFAM-015Z-CFV	ZS09KAE-PFV	9460	10500	11600	11600	12700	14000	15300	16800	
XFAM-015Z-TFC	ZS09KAE-TF5	9460	10500	11600	11600	12700	14000	15300	16800	
XFAM-017Z-CFV	ZS11KAE-PFV	11200	12400	13700	13700	15100	16500	18100	19800	
XFAM-017Z-TFC	ZS11KAE-TF5	11200	12400	13700	13700	15100	16500	18100	19800	
XFAM-022Z-CFV	ZS15KAE-PFV	14900	16500	18200	18200	19900	21800	23800	26000	
XFAM-022Z-TFC	ZS15KAE-TF5	14900	16500	18200	18200	19900	21800	23800	26000	
XFAM-030Z-CFV	ZS21KAE-PFV	22100	24400	26800	26800	29400	32100	34900	37900	
XFAM-030Z-TFC	ZS21KAE-TF5	22100	24400	26800	26800	29400	32100	34900	37900	
XFAM-045Z-CFV	ZS33KAE-PFV	30300	33500	36800	36900	40400	44100	48000	52000	
XFAM-045Z-TFC	ZS33KAE-TF5	30300	33500	36800	36900	40400	44100	48000	52000	
XFAM-050Z-CFV	ZS38K4E-PFV			38000	42000	45900	50000	54500	59000	
XFAM-050Z-TFC	ZS38K4E-TF5			38000	42000	45900	50000	54500	59000	
XFAM-060Z-TFC	ZS45K4E-TF5				50000	55000	59500	65000	70500	
110° Ambient										
XFAM-015Z-CFV	ZS09KAE-PFV	8900	9890	10900	10900	12000	13200	14500	15800	
XFAM-015Z-TFC	ZS09KAE-TF5	8900	9890	10900	10900	12000	13200	14500	15800	
XFAM-017Z-CFV	ZS11KAE-PFV	10500	11700	12900	12900	14200	15600	17100	18700	
XFAM-017Z-TFC	ZS11KAE-TF5	10500	11700	12900	12900	14200	15600	17100	18700	
XFAM-022Z-CFV	ZS15KAE-PFV	14000	15500	17100	17100	18800	20600	22500	24500	
XFAM-022Z-TFC	ZS15KAE-TF5	14000	15500	17100	17100	18800	20600	22500	24500	
XFAM-030Z-CFV	ZS21KAE-PFV	20700	22900	25200	25300	27700	30200	32800	35700	
XFAM-030Z-TFC	ZS21KAE-TF5	20700	22900	25200	25300	27700	30200	32800	35700	
XFAM-045Z-CFV	ZS33KAE-PFV	28400	31400	34600	34800	38000	41500	45200	49100	
XFAM-045Z-TFC	ZS33KAE-TF5	28400	31400	34600	34800	38000	41500	45200	49100	
XFAM-050Z-CFV	ZS38K4E-PFV				39700	43400	47300	51500	56000	
XFAM-050Z-TFC	ZS38K4E-TF5				39700	43400	47300	51500	56000	
XFAM-060Z-TFC	ZS45K4E-TF5				47300	51500	56500	61500	66500	

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

All capacities shown for XFAM models also apply to XFAP models

R-404A Low Temp

Copeland Scroll Outdoor Refrigeration Units – XF Series

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0									
90° Ambient																			
XFAL-008Z-CFV	ZF03KAE-PFV	Coming soon. Expected release Summer 2018.																	
XFAL-008Z-TFC	ZF03KAE-TF5																		
XFAL-009Z-CFV	ZF04KAE-PFV																		
XFAL-009Z-TFC	ZF04KAE-TF5																		
XFAL-010Z-CFV	ZF05KAE-PFV																		
XFAL-010Z-TFC	ZF05KAE-TF5																		
XFAL-012Z-CFV	ZF07KAE-PFV																		
XFAL-012Z-TFC	ZF07KAE-TF5																		
XFAP-015Z-CFV	ZS09KAE-PFV													4130	4670	5260	5910	6620	7400
XFAP-015Z-TFC	ZS09KAE-TF5													4130	4670	5260	5910	6620	7400
XFAP-017Z-CFV	ZS11KAE-PFV				4970	5610	6320	7100	7950	8880									
XFAP-017Z-TFC	ZS11KAE-TF5				4970	5610	6320	7100	7950	8880									
XFAP-022Z-CFV	ZS15KAE-PFV				6770	7640	8600	9640	10800	12000									
XFAP-022Z-TFC	ZS15KAE-TF5				6770	7640	8600	9640	10800	12000									
XFAL-020Z-CFV	ZXI06KCE-PFV	5700	6960	8210	9450	10690	11920	13140	14360	15570									
XFAL-020Z-TFC	ZXI06KCE-TF5	5700	6960	8210	9450	10690	11920	13140	14360	15570									
XFAP-030Z-CFV	ZS21KAE-PFV				10100	11300	12700	14200	15900	17600									
XFAP-030Z-TFC	ZS21KAE-TF5				10100	11300	12700	14200	15900	17600									
XFAL-030Z-TFC	ZXI09KCE-TF5	7840	9390	10950	12500	14060	15620	17170	18730	20280									
XFAL-035Z-CFV	ZXI11KCE-PFV	9700	11100	12600	14200	15900	17700	19700	21700	23900									
XFAP-045Z-CFV	ZS33KAE-PFV				13900	15700	17600	19700	22000	24400									
XFAP-045Z-TFC	ZS33KAE-TF5				13900	15700	17600	19700	22000	24400									
XFAP-050Z-CFV	ZS38K4E-PFV				17100	19200	21400	23800	26300	29100									
XFAP-050Z-TFC	ZS38K4E-TF5				17100	19200	21400	23800	26300	29100									
XFAL-040Z-CFV	ZXI14KCE-PFV	12690	14430	16280	18240	20300	22470	24740	27120	29610									
XFAL-040Z-TFC	ZXI14KCE-TF5	12690	14430	16280	18240	20300	22470	24740	27120	29610									
XFAL-050Z-TFC	ZXI15KCE-TF5	14030	16040	18140	20350	22660	25060	27570	30170	32880									
XFAL-051Z-CFV	ZXI16KCE-CFV	14030	16040	18140	20350	22660	25060	27570	30170	32880									
XFAP-060Z-TFC	ZS45K4E-TF5				20600	23000	25600	28300	31300	34500									
XFAL-060Z-TFC	ZXI18KCE-TF5	18000	20500	23000	25700	28600	31600	34700	38100	41500									
95° Ambient																			
XFAL-008Z-CFV	ZF03KAE-PFV	Coming soon. Expected release Summer 2018.																	
XFAL-008Z-TFC	ZF03KAE-TF5																		
XFAL-009Z-CFV	ZF04KAE-PFV																		
XFAL-009Z-TFC	ZF04KAE-TF5																		
XFAL-010Z-CFV	ZF05KAE-PFV																		
XFAL-010Z-TFC	ZF05KAE-TF5																		
XFAL-012Z-CFV	ZF07KAE-PFV																		
XFAL-012Z-TFC	ZF07KAE-TF5																		
XFAP-015Z-CFV	ZS09KAE-PFV													3995	4510	5075	5700	6380	7125
XFAP-015Z-TFC	ZS09KAE-TF5													3995	4510	5075	5700	6380	7125
XFAP-017Z-CFV	ZS11KAE-PFV				4810	5425	6100	6845	7660	8550									
XFAP-017Z-TFC	ZS11KAE-TF5				4810	5425	6100	6845	7660	8550									
XFAP-022Z-CFV	ZS15KAE-PFV				6550	7385	8295	9290	10390	11550									
XFAP-022Z-TFC	ZS15KAE-TF5				6550	7385	8295	9290	10390	11550									
XFAL-020Z-CFV	ZXI06KCE-PFV	5670	6900	8115	9325	10530	11725	12910	14095	15270									
XFAL-020Z-TFC	ZXI06KCE-TF5	5670	6900	8115	9325	10530	11725	12910	14095	15270									
XFAP-030Z-CFV	ZS21KAE-PFV				9755	10950	12250	13700	15300	16950									
XFAP-030Z-TFC	ZS21KAE-TF5				9755	10950	12250	13700	15300	16950									
XFAL-030Z-TFC	ZXI09KCE-TF5	7390	8955	10525	12090	13660	15230	16795	18365	19930									
XFAL-035Z-CFV	ZXI11KCE-PFV	9395	10700	12150	13650	15300	17000	18900	20850	22900									
XFAP-045Z-CFV	ZS33KAE-PFV				13450	15150	17000	19000	21150	23450									
XFAP-045Z-TFC	ZS33KAE-TF5				13450	15150	17000	19000	21150	23450									
XFAP-050Z-CFV	ZS38K4E-PFV				16450	18450	20550	22800	25200	27850									
XFAP-050Z-TFC	ZS38K4E-TF5				16450	18450	20550	22800	25200	27850									
XFAL-040Z-CFV	ZXI14KCE-PFV	12530	14205	15995	17890	19890	22000	24210	26530	28955									
XFAL-040Z-TFC	ZXI14KCE-TF5	12530	14205	15995	17890	19890	22000	24210	26530	28955									
XFAL-050Z-TFC	ZXI15KCE-TF5	13570	15500	17520	19645	21870	24190	26615	29135	31760									
XFAL-051Z-CFV	ZXI16KCE-CFV	13570	15500	17520	19645	21870	24190	26615	29135	31760									
XFAP-060Z-TFC	ZS45K4E-TF5				19850	22150	24600	27200	30050	33100									
XFAL-060Z-TFC	ZXI18KCE-TF5	17620	19990	22465	25040	27815	30690	33720	36950	39850									

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

R-404A Low Temp

Copeland Scroll Outdoor Refrigeration Units – XF Series

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0									
100° Ambient																			
XFAL-008Z-CFV	ZF03KAE-PFV	Coming soon. Expected release Summer 2018.																	
XFAL-008Z-TFC	ZF03KAE-TF5																		
XFAL-009Z-CFV	ZF04KAE-PFV																		
XFAL-009Z-TFC	ZF04KAE-TF5																		
XFAL-010Z-CFV	ZF05KAE-PFV																		
XFAL-010Z-TFC	ZF05KAE-TF5																		
XFAL-012Z-CFV	ZF07KAE-PFV																		
XFAL-012Z-TFC	ZF07KAE-TF5																		
XFAP-015Z-CFV	ZS09KAE-PFV													3860	4350	4890	5490	6140	6850
XFAP-015Z-TFC	ZS09KAE-TF5													3860	4350	4890	5490	6140	6850
XFAP-017Z-CFV	ZS11KAE-PFV				4650	5240	5880	6590	7370	8220									
XFAP-017Z-TFC	ZS11KAE-TF5				4650	5240	5880	6590	7370	8220									
XFAP-022Z-CFV	ZS15KAE-PFV				6330	7130	7990	8940	9980	11100									
XFAP-022Z-TFC	ZS15KAE-TF5				6330	7130	7990	8940	9980	11100									
XFAL-020Z-CFV	ZXI06KCE-PFV	5640	6840	8020	9200	10370	11530	12680	13830	14970									
XFAL-020Z-TFC	ZXI06KCE-TF5	5640	6840	8020	9200	10370	11530	12680	13830	14970									
XFAP-030Z-CFV	ZS21KAE-PFV				9410	10600	11800	13200	14700	16300									
XFAP-030Z-TFC	ZS21KAE-TF5				9410	10600	11800	13200	14700	16300									
XFAL-030Z-TFC	ZXI09KCE-TF5	6940	8520	10100	11680	13260	14840	16420	18000	19580									
XFAL-035Z-CFV	ZXI11KCE-PFV	9090	10300	11700	13100	14700	16300	18100	20000	21900									
XFAP-045Z-CFV	ZS33KAE-PFV				13000	14600	16400	18300	20300	22500									
XFAP-045Z-TFC	ZS33KAE-TF5				13000	14600	16400	18300	20300	22500									
XFAP-050Z-CFV	ZS38K4E-PFV				15800	17700	19700	21800	24100	26600									
XFAP-050Z-TFC	ZS38K4E-TF5				15800	17700	19700	21800	24100	26600									
XFAL-040Z-CFV	ZXI14KCE-PFV	12370	13980	15710	17540	19480	21530	23680	25940	28300									
XFAL-040Z-TFC	ZXI14KCE-TF5	12370	13980	15710	17540	19480	21530	23680	25940	28300									
XFAL-050Z-TFC	ZXI15KCE-TF5	13110	14960	16900	18940	21080	23320	25660	28100	30640									
XFAL-051Z-CFV	ZXI16KCE-CFV	13110	14960	16900	18940	21080	23320	25660	28100	30640									
XFAP-060Z-TFC	ZS45K4E-TF5				19100	21300	23600	26100	28800	31700									
XFAL-060Z-TFC	ZXI18KCE-TF5	17240	19480	21930	24380	27030	29780	32740	35800	38200									
110° Ambient																			
XFAL-008Z-CFV	ZF03KAE-PFV	Coming soon. Expected release Summer 2018.																	
XFAL-008Z-TFC	ZF03KAE-TF5																		
XFAL-009Z-CFV	ZF04KAE-PFV																		
XFAL-009Z-TFC	ZF04KAE-TF5																		
XFAL-010Z-CFV	ZF05KAE-PFV																		
XFAL-010Z-TFC	ZF05KAE-TF5																		
XFAL-012Z-CFV	ZF07KAE-PFV																		
XFAL-012Z-TFC	ZF07KAE-TF5																		
XFAP-015Z-CFV	ZS09KAE-PFV													3570	4010	4500	5030	5620	6260
XFAP-015Z-TFC	ZS09KAE-TF5													3570	4010	4500	5030	5620	6260
XFAP-017Z-CFV	ZS11KAE-PFV				4290	4830	5410	6040	6740	7500									
XFAP-017Z-TFC	ZS11KAE-TF5				4290	4830	5410	6040	6740	7500									
XFAP-022Z-CFV	ZS15KAE-PFV				5850	6560	7340	8190	9110	10100									
XFAP-022Z-TFC	ZS15KAE-TF5				5850	6560	7340	8190	9110	10100									
XFAP-030Z-CFV	ZXI06KCE-PFV				8670	9710	10800	12000	13400	14800									
XFAP-030Z-TFC	ZXI06KCE-TF5				8670	9710	10800	12000	13400	14800									
XFAL-020Z-CFV	ZS21KAE-PFV	5500	6610	7710	8810	9890	10970	12040	13100	14160									
XFAL-020Z-TFC	ZS21KAE-TF5	5500	6610	7710	8810	9890	10970	12040	13100	14160									
XFAL-030Z-TFC	ZXI09KCE-TF5	5830	7420	9010	10590	12180	13770	15350	16940	18530									
XFAP-045Z-CFV	ZXI11KCE-PFV				12000	13400	15000	16700	18500	20500									
XFAP-045Z-TFC	ZS33KAE-PFV				12000	13400	15000	16700	18500	20500									
XFAL-035Z-CFV	ZS33KAE-TF5	9020	10140	11340	12720	14200	15690	17380	19190	21090									
XFAP-050Z-CFV	ZS38K4E-PFV				14400	16000	17800	19800	21800	24100									
XFAP-050Z-TFC	ZS38K4E-TF5				14400	16000	17800	19800	21800	24100									
XFAL-040Z-CFV	ZXI14KCE-PFV	11850	13350	14950	16660	18480	20400	22420	24560	26800									
XFAL-040Z-TFC	ZXI14KCE-TF5	11850	13350	14950	16660	18480	20400	22420	24560	26800									
XFAL-050Z-TFC	ZXI15KCE-TF5	11920	13590	15370	17250	19220	21300	23470	25740	28110									
XFAL-051Z-CFV	ZXI16KCE-CFV	11920	13590	15370	17250	19220	21300	23470	25740	28110									
XFAP-060Z-TFC	ZS45K4E-TF5				17500	19500	21600	23800	26200	28700									
XFAL-060Z-TFC	ZXI18KCE-TF5	16170	18330	20500	22760	25130	27600	30290	32960	34700									

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

R-404A Med/Ext Med Temp

Copeland Scroll Outdoor Refrigeration Units – XF Series

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
90° Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV	4540	5100	5730	6420	7180	8010	8280	9180	10200	11200	12300
XFAM-008Z-TFC	ZB06KAE-TF5	4540	5100	5730	6420	7180	8010	8280	9180	10200	11200	12300
XFAM-010Z-CFV	ZB07KAE-PFV	5430	6140	6910	7750	8670	9680	10000	11100	12400	13700	15200
XFAM-010Z-TFC	ZB07KAE-TF5	5430	6140	6910	7750	8670	9680	10000	11100	12400	13700	15200
XFAM-012Z-CFV	ZB08KAE-PFV	6430	7190	8010	8910	9900	11000	11400	12600	14100	15600	17400
XFAM-012Z-TFC	ZB08KAE-TF5	6430	7190	8010	8910	9900	11000	11400	12600	14100	15600	17400
XFAM-015Z-CFV	ZS09KAE-PFV	7310	8160	9090	10100	11200	12400	12700	14000	15300	16700	18300
XFAM-015Z-TFC	ZS09KAE-TF5	7400	8260	9200	10200	11300	12500	12900	14100	15400	16900	18400
XFAM-017Z-CFV	ZS11KAE-PFV	8780	9790	10900	12100	13400	14800	15200	16700	18300	19900	21700
XFAM-017Z-TFC	ZS11KAE-TF5	8880	9900	11000	12200	13500	14900	15400	16800	18400	20000	21800
XFAM-022Z-CFV	ZS15KAE-PFV	11900	13300	14700	16300	18000	19900	20400	22300	24300	26400	28600
XFAM-022Z-TFC	ZS15KAE-TF5	11900	13300	14700	16300	18000	19900	20400	22300	24300	26400	28600
XFAM-030Z-CFV	ZS21KAE-PFV	17600	19500	21600	23800	26200	28800	29300	31900	34500	37300	40200
XFAM-030Z-TFC	ZS21KAE-TF5	17600	19500	21600	23800	26200	28800	29300	31900	34500	37300	40200
XFAM-045Z-CFV	ZS33KAE-PFV	24300	27000	29800	32900	36200	39800	40700	44200	47900	52000	56000
XFAM-045Z-TFC	ZS33KAE-TF5	24400	27100	30000	33100	36400	40000	40700	44200	47900	52000	56000
XFAM-050Z-CFV	ZS38K4E-PFV	29000	31900	35000	38400	41900	45600	47300	51500	55500	60000	65000
XFAM-050Z-TFC	ZS38K4E-TF5	29100	32000	35200	38500	42100	45800	47300	51500	55500	60000	65000
XFAM-060Z-TFC	ZS45K4E-TF5	34500	37900	41500	45400	49500	54000	55500	60500	65500	70500	76000
95° Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV	4355	4900	5505	6170	6895	7680	7965	8830	9775	10750	11750
XFAM-008Z-TFC	ZB06KAE-TF5	4355	4900	5505	6170	6895	7680	7965	8830	9775	10750	11750
XFAM-010Z-CFV	ZB07KAE-PFV	5235	5915	6650	7450	8325	9280	9620	10700	11900	13150	14550
XFAM-010Z-TFC	ZB07KAE-TF5	5235	5915	6650	7450	8325	9280	9620	10700	11900	13150	14550
XFAM-012Z-CFV	ZB08KAE-PFV	6190	6920	7700	8550	9490	10550	10950	12100	13500	15000	16700
XFAM-012Z-TFC	ZB08KAE-TF5	6190	6920	7700	8550	9490	10550	10950	12100	13500	15000	16700
XFAM-015Z-CFV	ZS09KAE-PFV	7180	8010	8910	9890	11000	12100	12400	13600	14800	16200	17600
XFAM-015Z-TFC	ZS09KAE-TF5	7180	8010	8910	9890	11000	12100	12400	13600	14800	16200	17600
XFAM-017Z-CFV	ZS11KAE-PFV	8445	9410	10450	11600	12850	14200	14600	16000	17500	19050	20750
XFAM-017Z-TFC	ZS11KAE-TF5	8550	9520	10600	11750	13000	14300	14750	16100	17600	19150	20850
XFAM-022Z-CFV	ZS15KAE-PFV	11600	12900	14300	15800	17500	19300	20300	22000	23700	25500	27400
XFAM-022Z-TFC	ZS15KAE-TF5	11600	12900	14300	15800	17500	19300	20300	22000	23700	25500	27400
XFAM-030Z-CFV	ZS21KAE-PFV	17000	18800	20800	22900	25200	27600	28200	30600	33100	35700	38400
XFAM-030Z-TFC	ZS21KAE-TF5	17000	18800	20800	22900	25200	27600	28200	30600	33100	35700	38400
XFAM-045Z-CFV	ZS33KAE-PFV	23500	26100	28800	31700	34900	38300	39100	42500	46000	49600	53500
XFAM-045Z-TFC	ZS33KAE-TF5	23500	26100	28800	31700	34900	38300	39100	42500	46000	49600	53500
XFAM-050Z-CFV	ZS38K4E-PFV	27400	30100	33100	36200	39500	43000	44800	48600	52500	57000	61500
XFAM-050Z-TFC	ZS38K4E-TF5	27400	30100	33100	36200	39500	43000	44800	48600	52500	57000	61500
XFAM-060Z-TFC	ZS45K4E-TF5	32900	36100	39500	43200	47000	51000	53000	57500	62500	67500	72500

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

R-404A Med/Ext Med Temp

Copeland Scroll Outdoor Refrigeration Units – XF Series

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
100° Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV	4170	4700	5280	5920	6610	7350	7650	8480	9350	10300	11200
XFAM-008Z-TFC	ZB06KAE-TF5	4170	4700	5280	5920	6610	7350	7650	8480	9350	10300	11200
XFAM-010Z-CFV	ZB07KAE-PFV	5040	5690	6390	7150	7980	8880	9240	10300	11400	12600	13900
XFAM-010Z-TFC	ZB07KAE-TF5	5040	5690	6390	7150	7980	8880	9240	10300	11400	12600	13900
XFAM-012Z-CFV	ZB08KAE-PFV	5950	6650	7390	8190	9080	10100	10500	11600	12900	14400	16000
XFAM-012Z-TFC	ZB08KAE-TF5	5950	6650	7390	8190	9080	10100	10500	11600	12900	14400	16000
XFAM-015Z-CFV	ZS09KAE-PFV	6750	7530	8370	9300	10300	11400	11700	12800	14000	15300	16600
XFAM-015Z-TFC	ZS09KAE-TF5	6850	7630	8490	9420	10400	11500	11800	12900	14100	15400	16800
XFAM-017Z-CFV	ZS11KAE-PFV	8110	9030	10000	11100	12300	13600	14000	15300	16700	18200	19800
XFAM-017Z-TFC	ZS11KAE-TF5	8220	9140	10200	11300	12500	13700	14100	15400	16800	18300	19900
XFAM-022Z-CFV	ZS15KAE-PFV	11000	12200	13500	15000	16600	18300	18700	20400	22200	24100	26100
XFAM-022Z-TFC	ZS15KAE-TF5	11000	12200	13500	15000	16600	18300	18700	20400	22200	24100	26100
XFAM-030Z-CFV	ZS21KAE-PFV	16200	17900	19800	21800	24000	26300	27000	29300	31600	34100	36700
XFAM-030Z-TFC	ZS21KAE-TF5	16200	17900	19800	21800	24000	26300	27000	29300	31600	34100	36700
XFAM-045Z-CFV	ZS33KAE-PFV	22400	24800	27400	30200	33300	36600	37700	41000	44300	47800	51500
XFAM-045Z-TFC	ZS33KAE-TF5	22500	25000	27600	30400	33400	36700	37700	41000	44300	47800	51500
XFAM-050Z-CFV	ZS38K4E-PFV	26400	29100	32000	35000	38300	41700	43600	47400	51500	55500	60000
XFAM-050Z-TFC	ZS38K4E-TF5	26600	29300	32200	35200	38400	41800	43600	47400	51500	55500	60000
XFAM-060Z-TFC	ZS45K4E-TF5	31700	34700	38000	41500	45200	49100	51000	55500	60000	65000	70000
110° Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV	3770	4260	4800	5380	6000	6670	7010	7750	8530	9350	10200
XFAM-008Z-TFC	ZB06KAE-TF5	3770	4260	4800	5380	6000	6670	7010	7750	8530	9350	10200
XFAM-010Z-CFV	ZB07KAE-PFV	4640	5230	5870	6540	7270	8060	8480	9380	10400	11400	12600
XFAM-010Z-TFC	ZB07KAE-TF5	4640	5230	5870	6540	7270	8060	8480	9380	10400	11400	12600
XFAM-012Z-CFV	ZB08KAE-PFV	5470	6100	6760	7480	8260	9130	9610	10600	11800	13100	14600
XFAM-012Z-TFC	ZB08KAE-TF5	5470	6100	6760	7480	8260	9130	9610	10600	11800	13100	14600
XFAM-015Z-CFV	ZS09KAE-PFV	6160	6850	7620	8450	9360	10400	10700	11700	12800	13900	15100
XFAM-015Z-TFC	ZS09KAE-TF5	6260	6960	7730	8570	9480	10500	10800	11800	12900	14000	15200
XFAM-017Z-CFV	ZS11KAE-PFV	7390	8220	9130	10100	11200	12400	12900	14000	15300	16600	18000
XFAM-017Z-TFC	ZS11KAE-TF5	7500	8330	9240	10200	11300	12500	13000	14100	15400	16700	18100
XFAM-022Z-CFV	ZS15KAE-PFV	10000	11100	12300	13600	15000	16600	17300	18800	20400	22000	23800
XFAM-022Z-TFC	ZS15KAE-TF5	10000	11100	12300	13600	15000	16600	17300	18800	20400	22000	23800
XFAM-030Z-CFV	ZS21KAE-PFV	14700	16200	17900	19700	21700	23800	25100	27100	29200	31400	33600
XFAM-030Z-TFC	ZS21KAE-TF5	14700	16200	17900	19700	21700	23800	25100	27100	29200	31400	33600
XFAM-045Z-CFV	ZS33KAE-PFV	20300	22400	24700	27300	30000	32900	35000	37800	40700	43800	47000
XFAM-045Z-TFC	ZS33KAE-TF5	20500	22600	25000	27500	30200	33200	35000	37800	40700	43800	47000
XFAM-050Z-CFV	ZS38K4E-PFV	23900	26300	28800	31500	34400	37500	39500	43000	46600	50500	54500
XFAM-050Z-TFC	ZS38K4E-TF5	24100	26500	29000	31700	34600	37700	39500	43000	46600	50500	54500
XFAM-060Z-TFC	ZS45K4E-TF5	28700	31500	34400	37500	40800	44400	46500	50500	54500	59000	63500

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

R-407A Low Temp

Copeland Scroll Outdoor Refrigeration Units – XF Series

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0									
90° Ambient																			
XFAL-008Z-CFV	ZF03KAE-PFV	Coming soon. Expected release Summer 2018.																	
XFAL-008Z-TFC	ZF03KAE-TF5																		
XFAL-009Z-CFV	ZF04KAE-PFV																		
XFAL-009Z-TFC	ZF04KAE-TF5																		
XFAL-010Z-CFV	ZF05KAE-PFV																		
XFAL-010Z-TFC	ZF05KAE-TF5																		
XFAL-012Z-CFV	ZF07KAE-PFV																		
XFAL-012Z-TFC	ZF07KAE-TF5																		
XFAL-020Z-CFV	ZXI06KCE-PFV										3742	4361	5147	6076	7120	8254	9453	10689	11937
XFAL-020Z-TFC	ZXI06KCE-TF5										3742	4361	5147	6076	7120	8254	9453	10689	11937
XFAL-030Z-TFC	ZXI09KCE-TF5	5735	6537	7698	8998	10422	11953	13575	15269	17022									
XFAL-035Z-CFV	ZXI11KCE-PFV	7173	8417	9816	11356	13024	14805	16685	18652	20691									
XFAL-040Z-CFV	ZXI14KCE-PFV	10387	11920	13592	15403	17352	19439	21664	24026	26526									
XFAL-040Z-TFC	ZXI14KCE-TF5	10387	11920	13592	15403	17352	19439	21664	24026	26526									
XFAL-050Z-TFC	ZXI15KCE-TF5	10486	12164	13982	15941	18045	20296	22698	25251	27960									
XFAL-051Z-CFV	ZXI16KCE-CFV	10791	12486	14353	16392	18604	20988	23545	26275	29176									
XFAL-060Z-TFC	ZXI18KCE-TF5	13901	16078	18450	21019	23784	26745	29902	33255	36804									
95° Ambient																			
XFAL-008Z-CFV	ZF03KAE-PFV	Coming soon. Expected release Summer 2018.																	
XFAL-008Z-TFC	ZF03KAE-TF5																		
XFAL-009Z-CFV	ZF04KAE-PFV																		
XFAL-009Z-TFC	ZF04KAE-TF5																		
XFAL-010Z-CFV	ZF05KAE-PFV																		
XFAL-010Z-TFC	ZF05KAE-TF5																		
XFAL-012Z-CFV	ZF07KAE-PFV																		
XFAL-012Z-TFC	ZF07KAE-TF5																		
XFAL-020Z-CFV	ZXI06KCE-PFV										3630	4224	4989	5899	6927	8047	9234	10462	11704
XFAL-020Z-TFC	ZXI06KCE-TF5										3630	4224	4989	5899	6927	8047	9234	10462	11704
XFAL-030Z-TFC	ZXI09KCE-TF5	5666	6544	7680	8955	10354	11859	13455	15124	16850									
XFAL-035Z-CFV	ZXI11KCE-PFV	6948	8143	9495	10991	12616	14357	16201	18133	20139									
XFAL-040Z-CFV	ZXI14KCE-PFV	10188	11664	13275	15023	16906	18925	21078	23366	25789									
XFAL-040Z-TFC	ZXI14KCE-TF5	10188	11664	13275	15023	16906	18925	21078	23366	25789									
XFAL-050Z-TFC	ZXI15KCE-TF5	10181	11835	13623	15548	17611	19816	22165	24661	27307									
XFAL-060Z-TFC	ZXI18KCE-TF5	10588	12209	14008	15985	18140	20472	22982	25670	28536									
XFAL-060Z-TFC	ZXI18KCE-TF5	13901	16078	18450	21019	23784	26745	29902	33255	36804									

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

R-407A Low Temp

Copeland Scroll Outdoor Refrigeration Units – XF Series

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
100° Ambient										
XFAL-008Z-CFV	ZF03KAE-PFV	Coming soon. Expected release Summer 2018.								
XFAL-008Z-TFC	ZF03KAE-TF5									
XFAL-009Z-CFV	ZF04KAE-PFV									
XFAL-009Z-TFC	ZF04KAE-TF5									
XFAL-010Z-CFV	ZF05KAE-PFV									
XFAL-010Z-TFC	ZF05KAE-TF5									
XFAL-012Z-CFV	ZF07KAE-PFV									
XFAL-012Z-TFC	ZF07KAE-TF5									
XFAL-020Z-CFV	ZXI06KCE-PFV	3517	4088	4831	5722	6733	7840	9016	10235	11471
XFAL-020Z-TFC	ZXI06KCE-TF5	3517	4088	4831	5722	6733	7840	9016	10235	11471
XFAL-030Z-TFC	ZXI09KCE-TF5	5598	6551	7661	8911	10285	11765	13335	14979	16679
XFAL-035Z-CFV	ZXI11KCE-PFV	6722	7868	9174	10625	12209	13910	15716	17613	19587
XFAL-040Z-CFV	ZXI14KCE-PFV	9989	11407	12959	14644	16461	18411	20493	22707	25052
XFAL-040Z-TFC	ZXI14KCE-TF5	9989	11407	12959	14644	16461	18411	20493	22707	25052
XFAL-050Z-TFC	ZXI15KCE-TF5	9876	11507	13265	15155	17177	19336	21633	24072	26654
XFAL-051Z-CFV	ZXI16KCE-CFV	10385	11933	13664	15578	17675	19956	22419	25066	27895
XFAL-060Z-TFC	ZXI18KCE-TF5	13301	15272	17477	19916	22590	25497	28640	32016	35627
110° Ambient										
XFAL-008Z-CFV	ZF03KAE-PFV	Coming soon. Expected release Summer 2018.								
XFAL-008Z-TFC	ZF03KAE-TF5									
XFAL-009Z-CFV	ZF04KAE-PFV									
XFAL-009Z-TFC	ZF04KAE-TF5									
XFAL-010Z-CFV	ZF05KAE-PFV									
XFAL-010Z-TFC	ZF05KAE-TF5									
XFAL-012Z-CFV	ZF07KAE-PFV									
XFAL-012Z-TFC	ZF07KAE-TF5									
XFAL-020Z-CFV	ZS21KAE-PFV	3118	3651	4362	5225	6215	7305	8469	9682	10916
XFAL-020Z-TFC	ZS21KAE-TF5	3118	3651	4362	5225	6215	7305	8469	9682	10916
XFAL-030Z-TFC	ZXI09KCE-TF5	5354	6239	7281	8462	9767	11178	12679	14253	15884
XFAL-035Z-CFV	ZS33KAE-TF5	6235	7272	8473	9825	11313	12925	14646	16462	18361
XFAL-040Z-CFV	ZXI14KCE-PFV	9594	10950	12433	14044	15781	17646	19637	21754	23997
XFAL-040Z-TFC	ZXI14KCE-TF5	9594	10950	12433	14044	15781	17646	19637	21754	23997
XFAL-050Z-TFC	ZXI15KCE-TF5	9071	10643	12331	14140	16070	18125	20307	22619	25064
XFAL-051Z-CFV	ZXI16KCE-CFV	9586	11076	12737	14570	16576	18753	21102	23624	26317
XFAL-060Z-TFC	ZXI18KCE-TF5	12626	14472	16538	18826	21334	24063	27013	30184	33576

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

R-407A Medium Temp

Copeland Scroll Outdoor Refrigeration Units – XF Series

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
90° Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV	4090	4590	5170	5820	6550	7360	7460	8330	9280	10300	11400
XFAM-008Z-TFC	ZB06KAE-TF5	4090	4590	5170	5820	6550	7360	7460	8330	9280	10300	11400
XFAM-010Z-CFV	ZB07KAE-PFV	4970	5660	6390	7190	8030	8930	9050	10000	11000	12000	13100
XFAM-010Z-TFC	ZB07KAE-TF5	4970	5660	6390	7190	8030	8930	9050	10000	11000	12000	13100
XFAM-012Z-CFV	ZB08KAE-PFV	5920	6750	7620	8510	9430	10400	10500	11500	12500	13500	14600
XFAM-012Z-TFC	ZB08KAE-TF5	5920	6750	7620	8510	9430	10400	10500	11500	12500	13500	14600
XFAM-015Z-CFV	ZS09KAE-PFV	6940	7730	8590	9520	10500	11600	11800	13000	14400	15900	17500
XFAM-015Z-TFC	ZS09KAE-TF5	6940	7730	8590	9520	10500	11600	11800	13000	14400	15900	17500
XFAM-017Z-CFV	ZS11KAE-PFV	8240	9180	10200	11300	12500	13800	14000	15400	17000	18700	20600
XFAM-017Z-TFC	ZS11KAE-TF5	8250	9180	10200	11300	12500	13800	14000	15400	17000	18700	20600
XFAM-022Z-CFV	ZS15KAE-PFV	11200	12500	13800	15300	16900	18600	18800	20800	22800	25100	27500
XFAM-022Z-TFC	ZS15KAE-TF5	11200	12500	13800	15300	16900	18600	18800	20800	22800	25100	27500
XFAM-030Z-CFV	ZS21KAE-PFV	16400	18100	20100	22100	24400	26800	27200	29900	32800	35900	39200
XFAM-030Z-TFC	ZS21KAE-TF5	16400	18100	20100	22100	24400	26800	27200	29900	32800	35900	39200
XFAM-045Z-CFV	ZS33KAE-PFV	23000	25500	28200	31100	34200	37600	38200	41900	45900	50500	55000
XFAM-045Z-TFC	ZS33KAE-TF5	23000	25500	28200	31100	34200	37600	38200	41900	45900	50500	55000
XFAM-050Z-CFV	ZS38K4E-PFV	26100	29400	32800	36500	40300	44300	43500	46700	49900	53000	62500
XFAM-050Z-TFC	ZS38K4E-TF5	26100	29400	32800	36500	40300	44300	43500	46700	49900	53000	62500
XFAM-060Z-TFC	ZS45K4E-TF5	31200	35000	39000	43300	47800	52500	53500	58500	63500	68500	74000
95° Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV	3960	4445	5000	5630	6335	7110	7225	8070	8990	9975	11050
XFAM-008Z-TFC	ZB06KAE-TF5	3960	4445	5000	5630	6335	7110	7225	8070	8990	9975	11050
XFAM-010Z-CFV	ZB07KAE-PFV	4770	5450	6175	6955	7775	8650	8785	9705	10650	11650	12700
XFAM-010Z-TFC	ZB07KAE-TF5	4770	5450	6175	6955	7775	8650	8785	9705	10650	11650	12700
XFAM-012Z-CFV	ZB08KAE-PFV	5715	6525	7370	8235	9130	10060	10200	11150	12150	13150	14200
XFAM-012Z-TFC	ZB08KAE-TF5	5715	6525	7370	8235	9130	10060	10200	11150	12150	13150	14200
XFAM-015Z-CFV	ZS09KAE-PFV	6710	7480	8300	9200	10200	11300	11400	12600	13900	15400	16900
XFAM-015Z-TFC	ZS09KAE-TF5	6710	7480	8300	9200	10200	11300	11400	12600	13900	15400	16900
XFAM-017Z-CFV	ZS11KAE-PFV	7965	8870	9845	10900	12050	13300	13550	14900	16450	18100	19950
XFAM-017Z-TFC	ZS11KAE-TF5	7970	8870	9850	10900	12050	13350	13550	14900	16450	18100	19950
XFAM-022Z-CFV	ZS15KAE-PFV	10800	12050	13350	14750	16300	17950	18200	20100	22050	24300	26650
XFAM-022Z-TFC	ZS15KAE-TF5	10800	12050	13350	14750	16300	17950	18200	20100	22050	24300	26650
XFAM-030Z-CFV	ZS21KAE-PFV	15800	17500	19400	21400	23500	25800	26300	28900	31600	34700	37900
XFAM-030Z-TFC	ZS21KAE-TF5	15800	17500	19400	21400	23500	25800	26300	28900	31600	34700	37900
XFAM-045Z-CFV	ZS33KAE-PFV	22200	24600	27100	29900	32900	36100	36800	40400	44300	48500	53000
XFAM-045Z-TFC	ZS33KAE-TF5	22200	24600	27100	29900	32900	36100	36800	40400	44300	48500	53000
XFAM-050Z-CFV	ZS38K4E-PFV	24600	27700	31000	34400	38100	41900	42600	46600	50500	55000	59500
XFAM-050Z-TFC	ZS38K4E-TF5	24600	27700	31000	34400	38100	41900	42600	46600	50500	55000	59500
XFAM-060Z-TFC	ZS45K4E-TF5	30100	33800	37700	41800	46200	50500	51500	56500	61500	66500	71500

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

All capacities shown for XFAM models also apply to XFAP models

R-407A Medium Temp

Copeland Scroll Outdoor Refrigeration Units – XF Series

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
100° Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV	3830	4300	4830	5440	6120	6860	6990	7810	8700	9650	10700
XFAM-008Z-TFC	ZB06KAE-TF5	3830	4300	4830	5440	6120	6860	6990	7810	8700	9650	10700
XFAM-010Z-CFV	ZB07KAE-PFV	4570	5240	5960	6720	7520	8370	8520	9410	10300	11300	12300
XFAM-010Z-TFC	ZB07KAE-TF5	4570	5240	5960	6720	7520	8370	8520	9410	10300	11300	12300
XFAM-012Z-CFV	ZB08KAE-PFV	5510	6300	7120	7960	8830	9720	9900	10800	11800	12800	13800
XFAM-012Z-TFC	ZB08KAE-TF5	5510	6300	7120	7960	8830	9720	9900	10800	11800	12800	13800
XFAM-015Z-CFV	ZS09KAE-PFV	6480	7210	8010	8880	9820	10900	11100	12200	13500	14900	16400
XFAM-015Z-TFC	ZS09KAE-TF5	6480	7210	8010	8880	9820	10900	11100	12200	13500	14900	16400
XFAM-017Z-CFV	ZS11KAE-PFV	7690	8560	9490	10500	11600	12800	13100	14400	15900	17500	19300
XFAM-017Z-TFC	ZS11KAE-TF5	7690	8560	9500	10500	11600	12900	13100	14400	15900	17500	19300
XFAM-022Z-CFV	ZS15KAE-PFV	10400	11600	12900	14200	15700	17300	17600	19400	21300	23500	25800
XFAM-022Z-TFC	ZS15KAE-TF5	10400	11600	12900	14200	15700	17300	17600	19400	21300	23500	25800
XFAM-030Z-CFV	ZS21KAE-PFV	15200	16900	18600	20600	22600	24900	25400	27800	30500	33400	36600
XFAM-030Z-TFC	ZS21KAE-TF5	15200	16900	18600	20600	22600	24900	25400	27800	30500	33400	36600
XFAM-045Z-CFV	ZS33KAE-PFV	21400	23700	26200	28800	31700	34800	35600	39000	42800	46900	51500
XFAM-045Z-TFC	ZS33KAE-TF5	21400	23700	26200	28800	31700	34800	35600	39000	42800	46900	51500
XFAM-050Z-CFV	ZS38K4E-PFV	24300	27300	30600	34000	37600	41400	41400	44300	47200	49900	59000
XFAM-050Z-TFC	ZS38K4E-TF5	24300	27300	30600	34000	37600	41400	41400	44300	47200	49900	59000
XFAM-060Z-TFC	ZS45K4E-TF5	29100	32600	36400	40400	44600	49000	50000	55000	59500	64500	69500
110° Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV	3570	4000	4490	5050	5680	6370	6520	7280	8110	8990	9930
XFAM-008Z-TFC	ZB06KAE-TF5	3570	4000	4490	5050	5680	6370	6520	7280	8110	8990	9930
XFAM-010Z-CFV	ZB07KAE-PFV	4110	4780	5490	6230	7000	7800	7980	8830	9700	10600	11500
XFAM-010Z-TFC	ZB07KAE-TF5	4110	4780	5490	6230	7000	7800	7980	8830	9700	10600	11500
XFAM-012Z-CFV	ZB08KAE-PFV	5110	5840	6610	7390	8210	9050	9260	10100	11100	12000	13000
XFAM-012Z-TFC	ZB08KAE-TF5	5110	5840	6610	7390	8210	9050	9260	10100	11100	12000	13000
XFAM-015Z-CFV	ZS09KAE-PFV	6000	6680	7420	8210	9090	10000	10300	11400	12500	13800	15300
XFAM-015Z-TFC	ZS09KAE-TF5	6000	6680	7420	8210	9090	10000	10300	11400	12500	13800	15300
XFAM-017Z-CFV	ZS11KAE-PFV	7120	7920	8790	9720	10700	11900	12100	13400	14800	16300	18000
XFAM-017Z-TFC	ZS11KAE-TF5	7120	7930	8790	9730	10800	11900	12100	13400	14800	16300	18000
XFAM-022Z-CFV	ZS15KAE-PFV	9660	10700	11900	13100	14500	16000	16300	18000	19800	21800	23900
XFAM-022Z-TFC	ZS15KAE-TF5	9660	10700	11900	13100	14500	16000	16300	18000	19800	21800	23900
XFAM-030Z-CFV	ZS21KAE-PFV	14100	15600	17200	19000	20800	22900	23500	25800	28300	31000	33900
XFAM-030Z-TFC	ZS21KAE-TF5	14100	15600	17200	19000	20800	22900	23500	25800	28300	31000	33900
XFAM-045Z-CFV	ZS33KAE-PFV	19700	21900	24100	26600	29200	32100	32900	36100	39600	43400	47600
XFAM-045Z-TFC	ZS33KAE-TF5	19700	21900	24100	26600	29200	32100	32900	36100	39600	43400	47600
XFAM-050Z-CFV	ZS38K4E-PFV	22400	25300	28300	31500	34900	38400	39100	41800	44300	46700	55000
XFAM-050Z-TFC	ZS38K4E-TF5	22400	25300	28300	31500	34900	38400	39100	41800	44300	46700	55000
XFAM-060Z-TFC	ZS45K4E-TF5	26900	30200	33700	37500	41400	45500	46800	51000	55500	60500	65000

Capacities rated at 65°F return gas (40°F return gas for capacities in **bold**), 5°F subcooling
Superheat restrictions apply. See AE bulletin 4-1387 for full compressor operating envelope.
 All capacities shown for XFAM models also apply to XFAP models

R-407C Low Temp

Copeland Scroll Outdoor Refrigeration Units – XF Series

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0									
90° Ambient																			
XFAL-008Z-CFV	ZF03KAE-PFV	Coming soon. Expected release Summer 2018.																	
XFAL-008Z-TFC	ZF03KAE-TF5																		
XFAL-009Z-CFV	ZF04KAE-PFV																		
XFAL-009Z-TFC	ZF04KAE-TF5																		
XFAL-010Z-CFV	ZF05KAE-PFV																		
XFAL-010Z-TFC	ZF05KAE-TF5																		
XFAL-012Z-CFV	ZF07KAE-PFV																		
XFAL-012Z-TFC	ZF07KAE-TF5																		
XFAL-020Z-CFV	ZXI06KCE-PFV										5046	5061	5769	6433	7408	8405	9407	10393	11342
XFAL-020Z-TFC	ZXI06KCE-TF5										5046	5061	5769	6433	7408	8405	9407	10393	11342
XFAL-030Z-TFC	ZXI09KCE-TF5	4831	5801	6882	8072	9368	10766	12265	13861	15551									
XFAL-035Z-CFV	ZXI11KCE-PFV	6663	7698	8887	10224	11705	13324	15076	16957	18961									
XFAL-040Z-CFV	ZXI14KCE-PFV	9664	10971	12469	14151	16007	18029	20208	22534	24999									
XFAL-040Z-TFC	ZXI14KCE-TF5	9664	10971	12469	14151	16007	18029	20208	22534	24999									
XFAL-050Z-TFC	ZXI15KCE-TF5	9603	11024	12689	14570	16640	18870	21233	23702	26247									
XFAL-051Z-CFV	ZXI16KCE-CFV	7688	10396	13105	15813	18522	21230	23939	26647	29355									
XFAL-060Z-TFC	ZXI18KCE-TF5	11842	13667	15707	17963	20434	23121	26023	29141	32475									
95° Ambient																			
XFAL-008Z-CFV	ZF03KAE-PFV	Coming soon. Expected release Summer 2018.																	
XFAL-008Z-TFC	ZF03KAE-TF5																		
XFAL-009Z-CFV	ZF04KAE-PFV																		
XFAL-009Z-TFC	ZF04KAE-TF5																		
XFAL-010Z-CFV	ZF05KAE-PFV																		
XFAL-010Z-TFC	ZF05KAE-TF5																		
XFAL-012Z-CFV	ZF07KAE-PFV																		
XFAL-012Z-TFC	ZF07KAE-TF5																		
XFAL-020Z-CFV	ZXI06KCE-PFV										4942	5003	5662	6350	7234	8161	9111	10064	11001
XFAL-020Z-TFC	ZXI06KCE-TF5										4942	5003	5662	6350	7234	8161	9111	10064	11001
XFAL-030Z-TFC	ZXI09KCE-TF5	4631	5584	6647	7819	9095	10473	11949	13522	15187									
XFAL-035Z-CFV	ZXI11KCE-PFV	6361	7360	8512	9812	11257	12839	14555	16399	18367									
XFAL-040Z-CFV	ZXI14KCE-PFV	9513	10791	12253	13890	15692	17652	19760	22007	24385									
XFAL-040Z-TFC	ZXI14KCE-TF5	9513	10791	12253	13890	15692	17652	19760	22007	24385									
XFAL-050Z-TFC	ZXI15KCE-TF5	9518	10835	12397	14175	16142	18270	20530	22897	25340									
XFAL-051Z-CFV	ZXI16KCE-CFV	8512	10832	13220	15675	18196	20785	23440	26163	28952									
XFAL-060Z-TFC	ZXI18KCE-TF5	11494	13301	15311	17524	19939	22557	25377	28400	31625									

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

Shaded area = 20°F max superheat

R-407C Low Temp

Copeland Scroll Outdoor Refrigeration Units – XF Series

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
100° Ambient										
XFAL-008Z-CFV	ZF03KAE-PFV									
XFAL-008Z-TFC	ZF03KAE-TF5									
XFAL-009Z-CFV	ZF04KAE-PFV									
XFAL-009Z-TFC	ZF04KAE-TF5									
XFAL-010Z-CFV	ZF05KAE-PFV									
XFAL-010Z-TFC	ZF05KAE-TF5									
XFAL-012Z-CFV	ZF07KAE-PFV									
XFAL-012Z-TFC	ZF07KAE-TF5									
XFAL-020Z-CFV	ZXI06KCE-PFV	4838	4946	5555	6266	7060	7916	8815	9736	10661
XFAL-020Z-TFC	ZXI06KCE-TF5	4838	4946	5555	6266	7060	7916	8815	9736	10661
XFAL-030Z-TFC	ZXI09KCE-TF5	4430	5367	6413	7566	8822	10179	11633	13182	14823
XFAL-035Z-CFV	ZXI11KCE-PFV	6060	7022	8137	9401	10808	12355	14034	15842	17773
XFAL-040Z-CFV	ZXI14KCE-PFV	9362	10612	12037	13628	15377	17275	19313	21481	23771
XFAL-040Z-TFC	ZXI14KCE-TF5	9362	10612	12037	13628	15377	17275	19313	21481	23771
XFAL-050Z-TFC	ZXI15KCE-TF5	9432	10647	12105	13780	15644	17669	19828	22091	24433
XFAL-051Z-CFV	ZXI16KCE-CFV	9336	11268	13335	15536	17871	20339	22942	25679	28549
XFAL-060Z-TFC	ZXI18KCE-TF5	11146	12936	14916	17085	19444	21993	24731	27658	30776
110° Ambient										
XFAL-008Z-CFV	ZF03KAE-PFV									
XFAL-008Z-TFC	ZF03KAE-TF5									
XFAL-009Z-CFV	ZF04KAE-PFV									
XFAL-009Z-TFC	ZF04KAE-TF5									
XFAL-010Z-CFV	ZF05KAE-PFV									
XFAL-010Z-TFC	ZF05KAE-TF5									
XFAL-012Z-CFV	ZF07KAE-PFV									
XFAL-012Z-TFC	ZF07KAE-TF5									
XFAL-020Z-CFV	ZXI06KCE-PFV	4838	4946	5555	6266	7060	7916	8815	9736	10661
XFAL-020Z-TFC	ZXI06KCE-TF5	4838	4946	5555	6266	7060	7916	8815	9736	10661
XFAL-030Z-TFC	ZXI09KCE-TF5	4430	5367	6413	7566	8822	10179	11633	13182	14823
XFAL-035Z-CFV	ZXI11KCE-PFV	6060	7022	8137	9401	10808	12355	14034	15842	17773
XFAL-040Z-CFV	ZXI14KCE-PFV	9362	10612	12037	13628	15377	17275	19313	21481	23771
XFAL-040Z-TFC	ZXI14KCE-TF5	9362	10612	12037	13628	15377	17275	19313	21481	23771
XFAL-050Z-TFC	ZXI15KCE-TF5	9432	10647	12105	13780	15644	17669	19828	22091	24433
XFAL-051Z-CFV	ZXI16KCE-CFV	9336	11268	13335	15536	17871	20339	22942	25679	28549
XFAL-060Z-TFC	ZXI18KCE-TF5	11146	12936	14916	17085	19444	21993	24731	27658	30776

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

Shaded area = 20°F max superheat

R-407C Medium Temp

Copeland Scroll Outdoor Refrigeration Units – XF Series

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
90° Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV	3710	4260	4850	5490	6170	6920	6990	7790	8660	9590	10600
XFAM-008Z-TFC	ZB06KAE-TF5	3710	4260	4850	5490	6170	6920	6990	7790	8660	9590	10600
XFAM-010Z-CFV	ZB07KAE-PFV	4470	5110	5800	6560	7380	8260	8350	9300	10300	11400	12500
XFAM-010Z-TFC	ZB07KAE-TF5	4470	5110	5800	6560	7380	8260	8350	9300	10300	11400	12500
XFAM-012Z-CFV	ZB08KAE-PFV	5340	6050	6830	7670	8590	9590	9690	10800	12000	13200	14600
XFAM-012Z-TFC	ZB08KAE-TF5	5340	6050	6830	7670	8590	9590	9690	10800	12000	13200	14600
XFAM-015Z-CFV	ZS09KAE-PFV	5960	6880	7850	8870	9940	11100	11200	12400	13600	15000	16400
XFAM-015Z-TFC	ZS09KAE-TF5	5960	6880	7850	8870	9940	11100	11200	12400	13600	15000	16400
XFAM-017Z-CFV	ZS11KAE-PFV	7080	8180	9330	10500	11800	13100	13200	14600	16100	17700	19300
XFAM-017Z-TFC	ZS11KAE-TF5	7090	8190	9340	10500	11800	13100	13300	14700	16100	17700	19300
XFAM-022Z-CFV	ZS15KAE-PFV	9650	11100	12700	14300	16000	17800	17900	19800	21800	23800	25900
XFAM-022Z-TFC	ZS15KAE-TF5	9650	11100	12700	14300	16000	17800	17900	19800	21800	23800	25900
XFAM-030Z-CFV	ZS21KAE-PFV	14400	16600	18900	21200	23700	26200	26500	29200	32000	34800	37800
XFAM-030Z-TFC	ZS21KAE-TF5	14400	16600	18900	21200	23700	26200	26500	29200	32000	34800	37800
XFAM-045Z-CFV	ZS33KAE-PFV	25900	29100	32500	36100	39900	43900	36400	40100	43900	47900	52000
XFAM-045Z-TFC	ZS33KAE-TF5	25900	29100	32500	36100	39900	43900	36400	40100	43900	47900	52000
XFAM-050Z-CFV	ZS38K4E-PFV	30900	34700	38600	42900	47300	52000	44400	48500	52500	57000	61500
XFAM-050Z-TFC	ZS38K4E-TF5	25900	29100	32500	36100	39900	43900	44400	48500	52500	57000	61500
XFAM-060Z-TFC	ZS45K4E-TF5	30900	34700	38700	42900	47300	52000	52500	57500	62500	67500	73000
95° Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV	3580	4120	4690	5310	5970	6690	6775	7550	8385	9285	10255
XFAM-008Z-TFC	ZB06KAE-TF5	3580	4120	4690	5310	5970	6690	6775	7550	8385	9285	10255
XFAM-010Z-CFV	ZB07KAE-PFV	4320	4940	5615	6345	7135	7980	8085	9000	9965	11000	12100
XFAM-010Z-TFC	ZB07KAE-TF5	4320	4940	5615	6345	7135	7980	8085	9000	9965	11000	12100
XFAM-012Z-CFV	ZB08KAE-PFV	5175	5860	6610	7415	8295	9250	9370	10400	11550	12750	14100
XFAM-012Z-TFC	ZB08KAE-TF5	5175	5860	6610	7415	8295	9250	9370	10400	11550	12750	14100
XFAM-015Z-CFV	ZS09KAE-PFV	5770	6690	7640	8630	9670	10800	10900	12000	13300	14500	15900
XFAM-015Z-TFC	ZS09KAE-TF5	5770	6690	7640	8630	9670	10800	10900	12000	13300	14500	15900
XFAM-017Z-CFV	ZS11KAE-PFV	6855	7940	9070	10225	11450	12750	12900	14250	15700	17200	18750
XFAM-017Z-TFC	ZS11KAE-TF5	6860	7945	9075	10230	11500	12750	12950	14300	15700	17200	18800
XFAM-022Z-CFV	ZS15KAE-PFV	9330	10800	12350	13900	15550	17300	17450	19250	21200	23150	25200
XFAM-022Z-TFC	ZS15KAE-TF5	9330	10800	12350	13900	15550	17300	17450	19250	21200	23150	25200
XFAM-030Z-CFV	ZS21KAE-PFV	13900	16100	18300	20600	23000	25500	25800	28400	31100	33900	36700
XFAM-030Z-TFC	ZS21KAE-TF5	13900	16100	18300	20600	23000	25500	25800	28400	31100	33900	36700
XFAM-045Z-CFV	ZS33KAE-PFV	19000	22000	25100	28200	31500	34900	35400	39000	42700	46500	50500
XFAM-045Z-TFC	ZS33KAE-TF5	19000	22000	25100	28200	31500	34900	35400	39000	42700	46500	50500
XFAM-050Z-CFV	ZS38K4E-PFV	24700	27800	31100	34600	38200	42100	42600	46600	50500	55000	59000
XFAM-050Z-TFC	ZS38K4E-TF5	24700	27800	31100	34600	38200	42100	42600	46600	50500	55000	59000
XFAM-060Z-TFC	ZS45K4E-TF5	29800	33400	37300	41400	45700	50000	51000	55500	60500	65500	70500

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

All capacities shown for XFAM models also apply to XFAP models

R-407C Medium Temp

Copeland Scroll Outdoor Refrigeration Units – XF Series

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
100° Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV	3450	3980	4530	5130	5770	6460	6560	7310	8110	8980	9910
XFAM-008Z-TFC	ZB06KAE-TF5	3450	3980	4530	5130	5770	6460	6560	7310	8110	8980	9910
XFAM-010Z-CFV	ZB07KAE-PFV	4170	4770	5430	6130	6890	7700	7820	8700	9630	10600	11700
XFAM-010Z-TFC	ZB07KAE-TF5	4170	4770	5430	6130	6890	7700	7820	8700	9630	10600	11700
XFAM-012Z-CFV	ZB08KAE-PFV	5010	5670	6390	7160	8000	8910	9050	10000	11100	12300	13600
XFAM-012Z-TFC	ZB08KAE-TF5	5010	5670	6390	7160	8000	8910	9050	10000	11100	12300	13600
XFAM-015Z-CFV	ZS09KAE-PFV	5580	6480	7420	8390	9400	10500	10600	11700	12900	14100	15400
XFAM-015Z-TFC	ZS09KAE-TF5	5580	6480	7420	8390	9400	10500	10600	11700	12900	14100	15400
XFAM-017Z-CFV	ZS11KAE-PFV	6630	7700	8810	9950	11100	12400	12600	13900	15300	16700	18200
XFAM-017Z-TFC	ZS11KAE-TF5	6630	7700	8810	9960	11200	12400	12600	13900	15300	16700	18300
XFAM-022Z-CFV	ZS15KAE-PFV	9010	10500	12000	13500	15100	16800	17000	18700	20600	22500	24500
XFAM-022Z-TFC	ZS15KAE-TF5	9010	10500	12000	13500	15100	16800	17000	18700	20600	22500	24500
XFAM-030Z-CFV	ZS21KAE-PFV	13400	15600	17800	20000	22300	24700	25100	27600	30200	32900	35700
XFAM-030Z-TFC	ZS21KAE-TF5	13400	15600	17800	20000	22300	24700	25100	27600	30200	32900	35700
XFAM-045Z-CFV	ZS33KAE-PFV	24000	27000	30300	33700	37200	41000	34500	37900	41500	45200	49100
XFAM-045Z-TFC	ZS33KAE-TF5	24000	27000	30300	33700	37200	41000	34500	37900	41500	45200	49100
XFAM-050Z-CFV	ZS38K4E-PFV	28800	32300	36100	40000	44200	48500	41600	45500	49600	53500	58000
XFAM-050Z-TFC	ZS38K4E-TF5	24100	27100	30300	33700	37300	41000	41600	45500	49600	53500	58000
XFAM-060Z-TFC	ZS45K4E-TF5	28900	32400	36100	40100	44200	48600	49400	54000	58500	63500	68500
95° Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV	3200	3700	4230	4790	5390	6030	6140	6840	7580	8380	9240
XFAM-008Z-TFC	ZB06KAE-TF5	3200	3700	4230	4790	5390	6030	6140	6840	7580	8380	9240
XFAM-010Z-CFV	ZB07KAE-PFV	3870	4450	5060	5720	6420	7170	7310	8120	8970	9880	10800
XFAM-010Z-TFC	ZB07KAE-TF5	3870	4450	5060	5720	6420	7170	7310	8120	8970	9880	10800
XFAM-012Z-CFV	ZB08KAE-PFV	4710	5330	5990	6700	7460	8280	8450	9360	10300	11400	12500
XFAM-012Z-TFC	ZB08KAE-TF5	4710	5330	5990	6700	7460	8280	8450	9360	10300	11400	12500
XFAM-015Z-CFV	ZS09KAE-PFV	5150	6040	6950	7880	8840	9840	10000	11100	12200	13300	14500
XFAM-015Z-TFC	ZS09KAE-TF5	5150	6040	6950	7880	8840	9840	10000	11100	12200	13300	14500
XFAM-017Z-CFV	ZS11KAE-PFV	6110	7170	8240	9350	10500	11700	11900	13100	14400	15800	17200
XFAM-017Z-TFC	ZS11KAE-TF5	6130	7180	8260	9370	10500	11700	11900	13100	14400	15800	17200
XFAM-022Z-CFV	ZS15KAE-PFV	8290	9720	11200	12700	14200	15800	16000	17700	19400	21200	23000
XFAM-022Z-TFC	ZS15KAE-TF5	8290	9720	11200	12700	14200	15800	16000	17700	19400	21200	23000
XFAM-030Z-CFV	ZS21KAE-PFV		14400	16600	18700	20900	23200	23700	26000	28400	30900	33500
XFAM-030Z-TFC	ZS21KAE-TF5		14400	16600	18700	20900	23200	23700	26000	28400	30900	33500
XFAM-045Z-CFV	ZS33KAE-PFV	22200	25000	28000	31200	34600	38100	32500	35800	39100	42600	46200
XFAM-045Z-TFC	ZS33KAE-TF5	22200	25000	28000	31200	34600	38100	32500	35800	39100	42600	46200
XFAM-050Z-CFV	ZS38K4E-PFV	26700	30000	33500	37100	41000	45100	38800	42500	46300	50000	54000
XFAM-050Z-TFC	ZS38K4E-TF5	22300	25100	28100	31300	34600	38100	38800	42500	46300	50000	54000
XFAM-060Z-TFC	ZS45K4E-TF5	26800	30000	33500	37200	41100	45200	46100	50500	55000	59500	64000

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

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

All capacities shown for XFAM models also apply to XFAP models

R-448A/R-449A Low Temp

Copeland Scroll Outdoor Refrigeration Units – XF Series

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
90° Ambient										
XFAL-008Z-CFV	ZF03KAE-PFV									
XFAL-008Z-TFC	ZF03KAE-TF5									
XFAL-009Z-CFV	ZF04KAE-PFV									
XFAL-009Z-TFC	ZF04KAE-TF5									
XFAL-010Z-CFV	ZF05KAE-PFV									
XFAL-010Z-TFC	ZF05KAE-TF5									
XFAL-012Z-CFV	ZF07KAE-PFV									
XFAL-012Z-TFC	ZF07KAE-TF5									
XFAL-020Z-CFV	ZXI06KCE-PFV	4705	5685	6724	7822	8981	10203	11488	12839	14255
XFAL-020Z-TFC	ZXI06KCE-TF5	4705	5685	6724	7822	8981	10203	11488	12839	14255
XFAL-030Z-TFC	ZXI09KCE-TF5	6316	7538	8805	10119	11480	12887	14341	15841	17387
XFAL-035Z-CFV	ZXI11KCE-PFV	7147	8630	10201	11860	13610	15452	17389	19422	21553
XFAL-040Z-CFV	ZXI14KCE-PFV	11313	12933	14722	16676	18792	21064	23490	26065	28786
XFAL-040Z-TFC	ZXI14KCE-TF5	11313	12933	14722	16676	18792	21064	23490	26065	28786
XFAL-050Z-TFC	ZXI15KCE-TF5	12334	14165	16198	18434	20870	23505	26337	29365	32588
XFAL-051Z-CFV	ZXI16KCE-CFV	13019	14673	16461	18368	20380	22484	24664	26908	29201
XFAL-060Z-TFC	ZXI18KCE-TF5	13050	15021	17217	19638	22285	25156	28252	31574	35120
95° Ambient										
XFAL-008Z-CFV	ZF03KAE-PFV									
XFAL-008Z-TFC	ZF03KAE-TF5									
XFAL-009Z-CFV	ZF04KAE-PFV									
XFAL-009Z-TFC	ZF04KAE-TF5									
XFAL-010Z-CFV	ZF05KAE-PFV									
XFAL-010Z-TFC	ZF05KAE-TF5									
XFAL-012Z-CFV	ZF07KAE-PFV									
XFAL-012Z-TFC	ZF07KAE-TF5									
XFAL-020Z-CFV	ZXI06KCE-PFV	4786	5721	6724	7798	8942	10158	11448	12812	14252
XFAL-020Z-TFC	ZXI06KCE-TF5	4786	5721	6724	7798	8942	10158	11448	12812	14252
XFAL-030Z-TFC	ZXI09KCE-TF5	6131	7268	8469	9737	11069	12468	13931	15461	17056
XFAL-035Z-CFV	ZXI11KCE-PFV	7135	8541	10053	11672	13400	15241	17196	19267	21456
XFAL-040Z-CFV	ZXI14KCE-PFV	10986	12576	14329	16240	18303	20515	22872	25369	28001
XFAL-040Z-TFC	ZXI14KCE-TF5	10986	12576	14329	16240	18303	20515	22872	25369	28001
XFAL-050Z-TFC	ZXI15KCE-TF5	12049	13845	15834	18012	20379	22930	25664	28578	31670
XFAL-051Z-CFV	ZXI16KCE-CFV	12493	14163	15976	17922	19988	22164	24438	26800	29237
XFAL-060Z-TFC	ZXI18KCE-TF5	12680	14629	16798	19187	21797	24627	27677	30948	34439

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

R-448A/R-449A Low Temp

Copeland Scroll Outdoor Refrigeration Units – XF Series

Model	Compressor	-40	-35	-30	-25	-20	-15	-10	-5	0
100° Ambient										
XFAL-008Z-CFV	ZF03KAE-PFV									
XFAL-008Z-TFC	ZF03KAE-TF5									
XFAL-009Z-CFV	ZF04KAE-PFV									
XFAL-009Z-TFC	ZF04KAE-TF5									
XFAL-010Z-CFV	ZF05KAE-PFV									
XFAL-010Z-TFC	ZF05KAE-TF5									
XFAL-012Z-CFV	ZF07KAE-PFV									
XFAL-012Z-TFC	ZF07KAE-TF5									
XFAL-020Z-CFV	ZXI06KCE-PFV	4867	5756	6725	7773	8902	10113	11407	12785	14248
XFAL-020Z-TFC	ZXI06KCE-TF5	4867	5756	6725	7773	8902	10113	11407	12785	14248
XFAL-030Z-TFC	ZXI09KCE-TF5	5946	6997	8133	9354	10659	12048	13522	15081	16724
XFAL-035Z-CFV	ZXI11KCE-PFV	7124	8453	9905	11484	13191	15030	17002	19111	21359
XFAL-040Z-CFV	ZXI14KCE-PFV	10658	12220	13937	15803	17815	19966	22254	24672	27215
XFAL-040Z-TFC	ZXI14KCE-TF5	10658	12220	13937	15803	17815	19966	22254	24672	27215
XFAL-050Z-TFC	ZXI15KCE-TF5	11764	13525	15469	17591	19888	22356	24992	27792	30752
XFAL-051Z-CFV	ZXI16KCE-CFV	11966	13652	15491	17475	19596	21844	24212	26691	29273
XFAL-060Z-TFC	ZXI18KCE-TF5	12310	14237	16379	18736	21310	24098	27103	30323	33758
110° Ambient										
XFAL-008Z-CFV	ZF03KAE-PFV									
XFAL-008Z-TFC	ZF03KAE-TF5									
XFAL-009Z-CFV	ZF04KAE-PFV									
XFAL-009Z-TFC	ZF04KAE-TF5									
XFAL-010Z-CFV	ZF05KAE-PFV									
XFAL-010Z-TFC	ZF05KAE-TF5									
XFAL-012Z-CFV	ZF07KAE-PFV									
XFAL-012Z-TFC	ZF07KAE-TF5									
XFAL-020Z-CFV	ZS21KAE-PFV	4293	5123	6024	6994	8034	9142	10320	11566	12881
XFAL-020Z-TFC	ZS21KAE-TF5	4293	5123	6024	6994	8034	9142	10320	11566	12881
XFAL-030Z-TFC	ZXI09KCE-TF5	4812	5749	6768	7866	9046	10306	11647	13068	14570
XFAL-035Z-CFV	ZS33KAE-TF5	6085	7307	8643	10096	11666	13356	15166	17099	19155
XFAL-040Z-CFV	ZXI14KCE-PFV	9955	11463	13113	14900	16817	18860	21022	23298	25682
XFAL-040Z-TFC	ZXI14KCE-TF5	9955	11463	13113	14900	16817	18860	21022	23298	25682
XFAL-050Z-TFC	ZXI15KCE-TF5	11122	12821	14683	16702	18873	21190	23648	26241	28963
XFAL-051Z-CFV	ZXI16KCE-CFV	10895	12605	14488	16542	18763	21147	23692	26393	29248
XFAL-060Z-TFC	ZXI18KCE-TF5	11512	13396	15487	17786	20293	23007	25929	29059	32397

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

R-448A/R-449A Medium Temp

Copeland Scroll Outdoor Refrigeration Units – XF Series

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
90° Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV	4270	4810	5420	6070	6780	7540	7640	8460	9320	10200	11200
XFAM-008Z-TFC	ZB06KAE-TF5	4270	4810	5420	6070	6780	7540	7640	8460	9320	10200	11200
XFAM-010Z-CFV	ZB07KAE-PFV	5030	5680	6400	7180	8040	8950	9080	10100	11100	12200	13400
XFAM-010Z-TFC	ZB07KAE-TF5	5030	5680	6400	7180	8040	8950	9080	10100	11100	12200	13400
XFAM-012Z-CFV	ZB08KAE-PFV	5910	6660	7490	8400	9410	10500	10600	11800	13000	14400	15700
XFAM-012Z-TFC	ZB08KAE-TF5	5910	6660	7490	8400	9410	10500	10600	11800	13000	14400	15700
XFAM-015Z-CFV	ZS09KAE-PFV	6420	7180	7990	8870	9840	10900	11100	12300	13700	15200	17000
XFAM-015Z-TFC	ZS09KAE-TF5	6420	7180	7990	8870	9840	10900	11100	12300	13700	15200	17000
XFAM-017Z-CFV	ZS11KAE-PFV	7680	8580	9540	10600	11700	13000	13200	14700	16300	18100	20200
XFAM-017Z-TFC	ZS11KAE-TF5	7680	8580	9540	10600	11700	13000	13200	14700	16300	18100	20200
XFAM-022Z-CFV	ZS15KAE-PFV	10500	11700	12900	14300	15900	17600	17800	19700	21900	24300	27000
XFAM-022Z-TFC	ZS15KAE-TF5	10500	11700	12900	14300	15900	17600	17800	19700	21900	24300	27000
XFAM-030Z-CFV	ZS21KAE-PFV	16300	18300	20400	22700	25100	27600	28100	30800	33600	36600	39800
XFAM-030Z-TFC	ZS21KAE-TF5	16300	18300	20400	22700	25100	27600	28100	30800	33600	36600	39800
XFAM-045Z-CFV	ZS33KAE-PFV	22600	25400	28400	31500	34900	38500	39100	42900	47000	51000	55500
XFAM-045Z-TFC	ZS33KAE-TF5	22600	25400	28400	31500	34900	38500	39100	42900	47000	51000	55500
XFAM-050Z-CFV	ZS38K4E-PFV	26300	29700	33400	37300	41400	45600	46300	51000	55500	60000	64500
XFAM-050Z-TFC	ZS38K4E-TF5	26300	29700	33400	37300	41400	45600	46300	51000	55500	60000	64500
XFAM-060Z-TFC	ZS45K4E-TF5	31200	35200	39500	44100	48800	53500	54500	60000	65000	70500	76000
95° Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV	4110	4635	5225	5855	6540	7275	7390	8185	9025	9895	10850
XFAM-008Z-TFC	ZB06KAE-TF5	4110	4635	5225	5855	6540	7275	7390	8185	9025	9895	10850
XFAM-010Z-CFV	ZB07KAE-PFV	4860	5485	6180	6935	7760	8640	8785	9755	10750	11800	12950
XFAM-010Z-TFC	ZB07KAE-TF5	4860	5485	6180	6935	7760	8640	8785	9755	10750	11800	12950
XFAM-012Z-CFV	ZB08KAE-PFV	5715	6435	7235	8115	9080	10120	10260	11400	12550	13850	15150
XFAM-012Z-TFC	ZB08KAE-TF5	5715	6435	7235	8115	9080	10120	10260	11400	12550	13850	15150
XFAM-015Z-CFV	ZS09KAE-PFV	6120	6820	7600	8460	9430	10500	10700	11900	13300	14900	16600
XFAM-015Z-TFC	ZS09KAE-TF5	6120	6820	7600	8460	9430	10500	10700	11900	13300	14900	16600
XFAM-017Z-CFV	ZS11KAE-PFV	7480	8325	9235	10235	11300	12550	12800	14200	15800	17550	19600
XFAM-017Z-TFC	ZS11KAE-TF5	7480	8325	9235	10235	11300	12550	12800	14200	15800	17550	19600
XFAM-022Z-CFV	ZS15KAE-PFV	10000	11100	12400	13700	15300	17000	17300	19200	21300	23700	26300
XFAM-022Z-TFC	ZS15KAE-TF5	10000	11100	12400	13700	15300	17000	17300	19200	21300	23700	26300
XFAM-030Z-CFV	ZS21KAE-PFV	15500	17400	19400	21500	23700	26000	26500	29000	31500	34200	37000
XFAM-030Z-TFC	ZS21KAE-TF5	15500	17400	19400	21500	23700	26000	26500	29000	31500	34200	37000
XFAM-045Z-CFV	ZS33KAE-PFV	21500	24100	26900	29800	32900	36100	36800	40300	43900	47600	51500
XFAM-045Z-TFC	ZS33KAE-TF5	21500	24100	26900	29800	32900	36100	36800	40300	43900	47600	51500
XFAM-050Z-CFV	ZS38K4E-PFV	25150	28450	32000	35750	39700	43800	44600	49050	53500	58000	62500
XFAM-050Z-TFC	ZS38K4E-TF5	25150	28450	32000	35750	39700	43800	44600	49050	53500	58000	62500
XFAM-060Z-TFC	ZS45K4E-TF5	29800	33700	37800	42100	46700	51500	52500	57500	62500	68000	73500

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

R-448A/R-449A Medium Temp

Copeland Scroll Outdoor Refrigeration Units – XF Series

Model	Compressor	0	5	10	15	20	25@40	25@65	30	35	40	45
100° Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV	3950	4460	5030	5640	6300	7010	7140	7910	8730	9590	10500
XFAM-008Z-TFC	ZB06KAE-TF5	3950	4460	5030	5640	6300	7010	7140	7910	8730	9590	10500
XFAM-010Z-CFV	ZB07KAE-PFV	4690	5290	5960	6690	7480	8330	8490	9410	10400	11400	12500
XFAM-010Z-TFC	ZB07KAE-TF5	4690	5290	5960	6690	7480	8330	8490	9410	10400	11400	12500
XFAM-012Z-CFV	ZB08KAE-PFV	5520	6210	6980	7830	8750	9740	9920	11000	12100	13300	14600
XFAM-012Z-TFC	ZB08KAE-TF5	5520	6210	6980	7830	8750	9740	9920	11000	12100	13300	14600
XFAM-015Z-CFV	ZS09KAE-PFV	6090	6760	7480	8280	9170	10200	10400	11500	12900	14300	16000
XFAM-015Z-TFC	ZS09KAE-TF5	6090	6760	7480	8280	9170	10200	10400	11500	12900	14300	16000
XFAM-017Z-CFV	ZS11KAE-PFV	7280	8070	8930	9870	10900	12100	12400	13700	15300	17000	19000
XFAM-017Z-TFC	ZS11KAE-TF5	7280	8070	8930	9870	10900	12100	12400	13700	15300	17000	19000
XFAM-022Z-CFV	ZS15KAE-PFV	9900	11000	12100	13300	14700	16300	16600	18400	20400	22700	25300
XFAM-022Z-TFC	ZS15KAE-TF5	9900	11000	12100	13300	14700	16300	16600	18400	20400	22700	25300
XFAM-030Z-CFV	ZS21KAE-PFV	14900	16800	18800	21000	23300	25600	26200	28700	31400	34200	37200
XFAM-030Z-TFC	ZS21KAE-TF5	14900	16800	18800	21000	23300	25600	26200	28700	31400	34200	37200
XFAM-045Z-CFV	ZS33KAE-PFV	20600	23300	26100	29200	32400	35700	36500	40100	43900	47900	52000
XFAM-045Z-TFC	ZS33KAE-TF5	20600	23300	26100	29200	32400	35700	36500	40100	43900	47900	52000
XFAM-050Z-CFV	ZS38K4E-PFV	24000	27200	30600	34200	38000	42000	42900	47100	51500	56000	60500
XFAM-050Z-TFC	ZS38K4E-TF5	24000	27200	30600	34200	38000	42000	42900	47100	51500	56000	60500
XFAM-060Z-TFC	ZS45K4E-TF5	28700	32300	36300	40500	44900	49500	50500	55500	60500	66000	71000
110° Ambient												
XFAM-008Z-CFV	ZB06KAE-PFV	3630	4110	4640	5220	5840	6500	6660	7380	8150	8970	9820
XFAM-008Z-TFC	ZB06KAE-TF5	3630	4110	4640	5220	5840	6500	6660	7380	8150	8970	9820
XFAM-010Z-CFV	ZB07KAE-PFV	4360	4920	5540	6220	6950	7730	7920	8780	9680	10600	11600
XFAM-010Z-TFC	ZB07KAE-TF5	4360	4920	5540	6220	6950	7730	7920	8780	9680	10600	11600
XFAM-012Z-CFV	ZB08KAE-PFV	5150	5790	6500	7280	8120	9020	9240	10200	11300	12400	13500
XFAM-012Z-TFC	ZB08KAE-TF5	5150	5790	6500	7280	8120	9020	9240	10200	11300	12400	13500
XFAM-015Z-CFV	ZS09KAE-PFV	5670	6250	6880	7590	8400	9320	9570	10700	11900	13300	14900
XFAM-015Z-TFC	ZS09KAE-TF5	5670	6250	6880	7590	8400	9320	9570	10700	11900	13300	14900
XFAM-017Z-CFV	ZS11KAE-PFV	6770	7450	8200	9030	9990	11100	11400	12600	14100	15700	17600
XFAM-017Z-TFC	ZS11KAE-TF5	6770	7450	8200	9030	9990	11100	11400	12600	14100	15700	17600
XFAM-022Z-CFV	ZS15KAE-PFV	9170	10100	11000	12100	13400	14800	15200	16900	18700	20900	23400
XFAM-022Z-TFC	ZS15KAE-TF5	9170	10100	11000	12100	13400	14800	15200	16900	18700	20900	23400
XFAM-030Z-CFV	ZS21KAE-PFV	13300	15100	17100	19100	21300	23500	24100	26500	29100	31700	34500
XFAM-030Z-TFC	ZS21KAE-TF5	13300	15100	17100	19100	21300	23500	24100	26500	29100	31700	34500
XFAM-045Z-CFV	ZS33KAE-PFV	18400	21000	23700	26600	29600	32800	33700	37100	40700	44500	48400
XFAM-045Z-TFC	ZS33KAE-TF5	18400	21000	23700	26600	29600	32800	33700	37100	40700	44500	48400
XFAM-050Z-CFV	ZS38K4E-PFV	22100	24900	28000	31300	34800	38500	39500	43400	47500	51500	56000
XFAM-050Z-TFC	ZS38K4E-TF5	22100	24900	28000	31300	34800	38500	39500	43400	47500	51500	56000
XFAM-060Z-TFC	ZS45K4E-TF5	26600	29800	33300	37100	41200	45500	46700	51500	56000	61000	66000

Capacities rated at 65°F return gas (40°F return gas for capacities in **bold**), 5°F subcooling
 Superheat restrictions apply. See AE bulletin 4-1387 for full compressor operating envelope.

X-Line Service - Low Temp

Production Part	Description	XFAL-020Z-CFV-081	XFAL-020Z-TFC-081	XFAL-030Z-TFC-081	XFAL-035Z-CFV-081	XFAL-040Z-CFV-081	XFAL-040Z-TFC-081	XFAL-050Z-TFC-081	XFAL-051Z-CFV-081	XFAL-060Z-TFC-081
003-1220-00	Valve-plate	903-1220-00	903-1220-00	903-1220-00	903-1220-00	903-1220-00	903-1220-00	903-1220-00	903-1220-00	903-1220-00
003-1487-00	Plate-divider	903-1487-00	903-1487-00	903-1487-00	903-1487-00					
003-1576-00	Plate-divider					903-1576-00	903-1576-00	903-1576-00	903-1576-00	903-1576-00
005-1273-00	Cover-top	905-1273-00	905-1273-00	905-1273-00	905-1273-00	905-1273-00	905-1273-00	905-1273-00	905-1273-00	905-1273-00
005-1280-00	Hand-wide grip	905-1280-00	905-1280-00	905-1280-00	905-1280-00	905-1280-00	905-1280-00	905-1280-00	905-1280-00	905-1280-00
005-1331-00	Cover-right	905-1331-00	905-1331-00	905-1331-00	905-1331-00					
005-1332-00	Cover-right					905-1332-00	905-1332-00	905-1332-00	905-1332-00	905-1332-00
005-7193-00	Cover-handle	905-7193-00	905-7193-00	905-7193-00	905-7193-00	905-7193-00	905-7193-00	905-7193-00	905-7193-00	905-7193-00
005-7193-01	Hand-grip	905-7193-01	905-7193-01	905-7193-01	905-7193-01	905-7193-01	905-7193-01	905-7193-01	905-7193-01	905-7193-01
005-7214-00	Plate-front left					905-7214-00	905-7214-00	905-7214-00	905-7214-00	905-7214-00
005-7215-00	Plate-front left	905-7215-00	905-7215-00	905-7215-00	905-7215-00					
005-7230-00	Cover-electrical box	905-7230-00	905-7230-00	905-7230-00	905-7230-00	905-7230-00	905-7230-00	905-7230-00	905-7230-00	905-7230-00
010-0104-00	Valve-EXV	910-0104-00	910-0104-00	910-0104-00	910-0104-00	910-0104-00	910-0104-00	910-0104-00	910-0104-00	910-0104-00
010-0142-02	Valve-service	910-0142-02	910-0142-02	910-0142-02	910-0142-02	910-0142-02	910-0142-02	910-0142-02	910-0142-02	910-0142-02
010-0179-00	Valve-service	910-7009-01	910-7009-01	910-7009-01	910-7009-01	910-7009-01	910-7009-01	910-7009-01	910-7009-01	910-7009-01
010-0180-00	Valve-service	910-0180-00	910-0180-00	910-0180-00	910-0180-00	910-0180-00	910-0180-00	910-0180-00	910-0180-00	910-0180-00
010-7003-01	Valve-check	910-7003-01	910-7003-01	910-7003-01	910-7003-01	910-7003-01	910-7003-01	910-7003-01	910-7003-01	910-7003-01
012-1401-04	Contact	912-1401-04			912-1401-04	912-1401-04			912-1401-04	
012-1401-06	Contact		912-3040-02	912-3040-02			912-3040-02	912-3040-02		912-3040-02
013-7000-31	Filter-drier	913-7000-31	913-7000-31	913-7000-31	913-7000-31	913-7000-31	913-7000-31	913-7000-31	913-7000-31	913-7000-31
013-7026-00	Filter-screen	913-7026-00	913-7026-00	913-7026-00	913-7026-00	913-7026-00	913-7026-00	913-7026-00	913-7026-00	913-7026-00
014-0006-15	Capacitor-start								914-0006-10	
014-0061-27	Capacitor-start	914-0036-03			914-0036-03	914-0036-03				
014-0064-06	Capacitor-running									
014-0064-08	Capacitor-running									
014-0064-18	Capacitor-running				914-0037-22					
014-0064-25	Capacitor-running	914-0037-36								
014-0064-27	Capacitor-running					914-0037-38				
014-0064-28	Capacitor-running									
014-0064-35	Capacitor-running								914-0037-52	
014-0083-00	Capacitor-fan	914-0083-00	914-0083-00	914-0083-00	914-0083-00	914-0083-00	914-0083-00	914-0083-00	914-0083-00	914-0083-00
018-0094-05	Heater-crankcase	918-0052-05	918-0052-05	918-0052-05						
018-0095-04	Heater-crankcase				918-0043-00	918-0043-00	918-0043-00	918-0043-00	918-0043-00	918-0043-00
018-7013-00	Heater-receiver	918-0100-00	918-0100-00	918-0100-00	918-0100-00	918-0100-00	918-0100-00	918-0100-00	918-0100-00	918-0100-00
022-0644-00	Base-plate	922-0644-00	922-0644-00	922-0644-00	922-0644-00	922-0644-00	922-0644-00	922-0644-00	922-0644-00	922-0644-00
023-0068-00	Coil-EXV					923-0068-00	923-0068-00	923-0068-00	923-0068-00	923-0068-00
023-0068-04	Coil-EXV	923-0068-00	923-0068-00	923-0068-00	923-0068-00					
024-0262-00	Guard-cond coil					924-0262-00	924-0262-00	924-0262-00	924-0262-00	924-0262-00
024-0263-00	Guard-cond coil	924-0263-00	924-0263-00	924-0263-00	924-0263-00					
024-0264-00	Guard-fan	924-0264-00	924-0264-00	924-0264-00	924-0264-00	924-0264-00	924-0264-00	924-0264-00	924-0264-00	924-0264-00
032-0359-00	Clamp-capacitor									
032-0359-01	Clamp-capacitor	032-0359-01			032-0359-01	032-0359-01				
032-0359-02	Clamp-capacitor				032-0359-02				032-0359-02	
032-0359-04	Clamp-capacitor									
032-0592-00	Holder-sensor	032-0592-00	032-0592-00	032-0592-00	032-0592-00	032-0592-00	032-0592-00	032-0592-00	032-0592-00	032-0592-00
032-0688-02	Clip-pipe	032-0688-02	032-0688-02	032-0688-02	032-0688-02	032-0688-02	032-0688-02	032-0688-02	032-0688-02	032-0688-02
032-0731-00	Clip-divider plate	032-0731-00	032-0731-00	032-0731-00	032-0731-00	032-0731-00	032-0731-00	032-0731-00	032-0731-00	032-0731-00

980-0080-00 Master Service Kit

Component	Description
037-0038-01	Transformer control
039-0026-06	Transducer-pressure
529-0060-04	Power cable-molded plug
529-0060-25	Power cable-molded plug
529-0222-01	Cable-wire harness
529-0222-02	Cable-wire harness
912-1401-04	Contact
912-3040-02	Contact
914-0083-00	Capacitor-fan
923-0068-00	Coil-EXV
929-0304-00	Cable-sensor assembly
940-0181-00	Relay-defrost
943-0214-00	Controller-elect.unit
971-7018-00	Breaker-circuit
980-0086-00	Terminal block assembly
980-0086-01	Terminal block assembly

X-Line Service - Low Temp

Production Part	Description	XFAL-020Z-CFV-081	XFAL-020Z-TFC-081	XFAL-030Z-TFC-081	XFAL-035Z-CFV-081	XFAL-040Z-CFV-081	XFAL-040Z-TFC-081	XFAL-050Z-TFC-081	XFAL-051Z-CFV-081	XFAL-060Z-TFC-081
032-0743-00	Clamp-capacitor	032-0743-00	032-0743-00	032-0743-00	032-0743-00	032-0743-00	032-0743-00	032-0743-00	032-0743-00	032-0743-00
032-7003-06	Clamp-tube									
032-7052-00	Clamp-heat exchanger	032-7052-00	032-7052-00	032-7052-00	032-7052-00	032-7052-00	032-7052-00	032-7052-00	032-7052-00	032-7052-00
037-0038-01	Transformer control	037-0038-01	037-0038-01	037-0038-01	037-0038-01	037-0038-01	037-0038-01	037-0038-01	037-0038-01	037-0038-01
039-0026-06	Transducer pressure	039-0026-06	039-0026-06	039-0026-06	039-0026-06	039-0026-06	039-0026-06	039-0026-06	039-0026-06	039-0026-06
040-0046-24	Relay-potential								940-0046-24	
040-0166-37	Relay-potential	940-0001-79			940-0001-79	940-0001-79				
040-0181-00	Relay-defrost	940-0181-00	940-0181-00	940-0181-00	940-0181-00	940-0181-00	940-0181-00	940-0181-00	940-0181-00	940-0181-00
050-0316-01	Motor-fan	050-0316-01	050-0316-01	050-0316-01	050-0316-01	050-0316-01	050-0316-01	050-0316-01	050-0316-01	050-0316-01
062-7053-00	Box-electrical	062-7053-00	062-7053-00	062-7053-00	062-7053-00	062-7053-00	062-7053-00	062-7053-00	062-7053-00	062-7053-00
066-0387-00	Condenser							066-0387-00	066-0387-00	
066-0388-00	Condenser					066-0388-00	066-0388-00			
066-0389-00	Condenser	066-0389-00	066-0389-00							
066-0393-00	Condenser									066-0393-00
066-0800-00	Condenser			066-0800-00	066-0800-00					
067-0029-00	Heat exchanger					967-0025-00	967-0025-00	967-0025-00	967-0025-00	967-0025-00
067-0029-01	Heat exchanger	967-0025-01	967-0025-01	967-0025-01						
071-7018-00	Breaker-circuit	971-7018-00	971-7018-00	971-7018-00	971-7018-00	971-7018-00	971-7018-00	971-7018-00	971-7018-00	971-7018-00
074-1205-00	Bracket-stabilizer top	074-1205-00	074-1205-00	074-1205-00	074-1205-00	074-1205-00	074-1205-00	074-1205-00	074-1205-00	074-1205-00
074-1207-01	Bracket-EXV									
074-1424-00	Bracket-control mtg	074-1424-00	074-1424-00	074-1424-00	074-1424-00					
074-1425-00	Bracket-control mtg					074-1425-00	074-1425-00	074-1425-00	074-1425-00	074-1425-00
074-7282-00	Bracket-mounting	074-7282-00	074-7282-00	074-7282-00	074-7282-00	074-7282-00	074-7282-00	074-7282-00	074-7282-00	074-7282-00
074-7283-00	Bracket-heat exchanger	074-7283-00	074-7283-00	074-7283-00	074-7283-00	074-7283-00	074-7283-00	074-7283-00	074-7283-00	074-7283-00
074-7284-00	Bracket-cover right	074-7284-00	074-7284-00	074-7284-00	074-7284-00	074-7284-00	074-7284-00	074-7284-00	074-7284-00	074-7284-00
077-0036-01	Tank-accumulator					977-0036-01	977-0036-01	977-0036-01	977-0036-01	977-0036-01
077-0037-01	Tank-accumulator	977-0037-01	977-0037-01	977-0037-01	977-0037-01					
077-0057-00	Tank-oil separator	977-0057-00	977-0057-00	977-0057-00	977-0057-00	977-0057-00	977-0057-00	977-0057-00	977-0057-00	977-0057-00
080-0139-08	Terminal block	980-0139-08	980-0139-08	980-0139-08	980-0139-08	980-0139-08	980-0139-08	980-0139-08	980-0139-08	980-0139-08
080-0139-09	Terminal block	980-0139-09	980-0139-09	980-0139-09	980-0139-09	980-0139-09	980-0139-09	980-0139-09	980-0139-09	980-0139-09
083-6931-00	Blade	983-6931-00	983-6931-00	983-6931-00	983-6931-00	983-6931-00	983-6931-00	983-6931-00	983-6931-00	983-6931-00
085-7031-06	Control-pressure	985-7031-06	985-7031-06	985-7031-06	985-7031-06	985-7031-06	985-7031-06	985-7031-06	985-7031-06	985-7031-06
100-7034-00	Screw-ambient holder									
505-7099-00	Door assembly	505-7099-00	505-7099-00	505-7099-00	505-7099-00					
505-7098-00	Door assembly					505-7098-00	505-7098-00	505-7098-00	505-7098-00	505-7098-00
510-0730-00	Valve - pressure relief	910-0730-00	910-0730-00	910-0730-00	910-0730-00	910-0730-00	910-0730-00	910-0730-00	910-0730-00	910-0730-00
510-7062-00	Valve-access	910-7062-00	910-7062-00	910-7062-00	910-7062-00	910-7062-00	910-7062-00	910-7062-00	910-7062-00	910-7062-00
529-0060-04	Power cable-molded plug	529-0060-04	529-0060-04	529-0060-04	529-0060-04					
529-0060-25	Power cable-molded plug					529-0060-25	529-0060-25	529-0060-25		
529-0114-08	Cable-transducer adapter									
529-0220-00	Cable-sensor assembly	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00
529-0220-01	Cable-sensor assembly	929-0304-00	929-0304-00	929-0304-00	929-0304-00					
529-0220-02	Cable-sensor assembly	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00
529-0220-03	Cable-sensor assembly	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00
529-0220-04	Cable-sensor assembly	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00
529-0220-05	Cable-sensor assembly	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00
529-0220-08	Cable-sensor assembly					929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00
529-0220-09	Cable-sensor assembly					929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00
529-0220-10	Cable-sensor assembly					929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00
529-0222-01	Cable-wire harness	529-0222-01	529-0222-01	529-0222-01	529-0222-01					
529-0222-02	Cable-wire harness					529-0222-02	529-0222-02	529-0222-02	529-0222-02	529-0222-02
543-0214-00	Controller-elec. unit	943-0214-00	943-0214-00	943-0214-00	943-0214-00	943-0214-00	943-0214-00	943-0214-00	943-0214-00	943-0214-00
570-7003-06	Indicator-moisture	970-7003-06	970-7003-06	970-7003-06	970-7003-06	970-7003-06	970-7003-06	970-7003-06	970-7003-06	970-7003-06
577-0542-00	Receiver assembly	577-0542-00	577-0542-00	577-0542-00	577-0542-00					
577-0542-01	Receiver assembly					577-0542-01	577-0542-01	577-0542-01	577-0542-01	577-0542-01
580-0086-00	Terminal block assembly	980-0086-00			980-0086-00	980-0086-00			980-0086-00	
580-0086-01	Terminal block assembly		980-0086-01	980-0086-01			980-0086-01	980-0086-01		980-0086-01

X-Line Service - Low Temp

Production Part	Description	XFAL-020Z-CFV-081	XFAL-020Z-TFC-081	XFAL-030Z-TFC-081	XFAL-035Z-CFV-081	XFAL-040Z-CFV-081	XFAL-040Z-TFC-081	XFAL-050Z-TFC-081	XFAL-051Z-CFV-081	XFAL-060Z-TFC-081
ZS09KAE-PFV-118	Welded compressor									
ZS09KAE-TF5-118	Welded compressor									
ZS11KAE-PFV-118	Welded compressor									
ZS11KAE-TF5-118	Welded compressor									
ZS15KAE-PFV-118	Welded compressor									
ZS15KAE-TF5-118	Welded compressor									
ZS21KAE-PFV-118	Welded compressor									
ZS21KAE-TF5-118	Welded compressor									
ZS33KAE-PFV-118	Welded compressor									
ZS33KAE-TF5-118	Welded compressor									
ZS38K4E-PFV-250	Welded compressor									
ZS38K4E-TF5-250	Welded compressor									
ZS45K4E-TF5-250	Welded compressor									
ZXI06KCE-PFV-687	Welded compressor	ZXI06KCE-PFV-887								
ZXI06KCE-TF5-687	Welded compressor		ZXI06KCE-TF5-887							
ZXI09KCE-TF5-687	Welded compressor			ZXI09KCE-TF5-887						
ZXI11KCE-PFV-647	Welded compressor				ZXI11KCE-PFV-847					
ZXI14KCE-PFV-647	Welded compressor					ZXI14KCE-PFV-847				
ZXI14KCE-TF5-647	Welded compressor						ZXI14KCE-TF5-847			
ZXI15KCE-TF5-647	Welded compressor							ZXI15KCE-TF5-847		
ZXI16KCE-PFV-557	Welded compressor								ZXI16KCE-PFV-957	
ZXI18KCE-TF5-557	Welded compressor									ZXI18KCE-TF5-957
Accessories	Master service kit	980-0080-00	980-0080-00	980-0080-00	980-0080-00	980-0080-00	980-0080-00	980-0080-00	980-0080-00	980-0080-00
	Wall bracket	074-7286-00	074-7286-00	074-7286-00	074-7286-00	074-7286-00	074-7286-00	074-7286-00	074-7286-00	074-7286-00
	Stand-adjustable	074-7289-00	074-7289-00	074-7289-00	074-7289-00	074-7289-00	074-7289-00	074-7289-00	074-7289-00	074-7289-00
	PC interface kit	943-0224-00	943-0224-00	943-0224-00	943-0224-00	943-0224-00	943-0224-00	943-0224-00	943-0224-00	943-0224-00
	Remote display	143-0023-00	143-0023-00	143-0023-00	143-0023-00	143-0023-00	143-0023-00	143-0023-00	143-0023-00	143-0023-00

X-Line Service - Medium Temp

Production Part	Description	XFAM-017Z-TFC-081	XFAM-022Z-CFV-081	XFAM-022Z-TFC-081	XFAM-030Z-CFV-081	XFAM-030Z-TFC-081	XFAM-045Z-CFV-081	XFAM-045Z-TFC-081	XFAM-050Z-CFV-081	XFAM-050Z-TFC-081	XFAM-060Z-TFC-081
003-1220-00	Valve-plate	903-1220-00	903-1220-00	903-1220-00	903-1220-00	903-1220-00	903-1220-00	903-1220-00	903-1220-00	903-1220-00	903-1220-00
003-1487-00	Plate-divider	903-1487-00	903-1487-00	903-1487-00	903-1487-00	903-1487-00					
003-1576-00	Plate-divider						903-1576-00	903-1576-00	903-1576-00	903-1576-00	903-1576-00
005-1273-00	Cover-top	905-1273-00	905-1273-00	905-1273-00	905-1273-00	905-1273-00	905-1273-00	905-1273-00	905-1273-00	905-1273-00	905-1273-00
005-1280-00	Hand-wide grip	905-1280-00	905-1280-00	905-1280-00	905-1280-00	905-1280-00	905-1280-00	905-1280-00	905-1280-00	905-1280-00	905-1280-00
005-1331-00	Cover-right	905-1331-00	905-1331-00	905-1331-00	905-1331-00	905-1331-00					
005-1332-00	Cover-right						905-1332-00	905-1332-00	905-1332-00	905-1332-00	905-1332-00
005-7193-00	Cover-handle	905-7193-00	905-7193-00	905-7193-00	905-7193-00	905-7193-00	905-7193-00	905-7193-00	905-7193-00	905-7193-00	905-7193-00
005-7193-01	Hand-grip	905-7193-01	905-7193-01	905-7193-01	905-7193-01	905-7193-01	905-7193-01	905-7193-01	905-7193-01	905-7193-01	905-7193-01
005-7214-00	Plate-front left						905-7214-00	905-7214-00	905-7214-00	905-7214-00	905-7214-00
005-7215-00	Plate-front left	905-7215-00	905-7215-00	905-7215-00	905-7215-00	905-7215-00					
005-7230-00	Cover-electrical box	905-7230-00	905-7230-00	905-7230-00	905-7230-00	905-7230-00	905-7230-00	905-7230-00	905-7230-00	905-7230-00	905-7230-00
010-0104-00	Valve-EXV	910-0104-00	910-0104-00	910-0104-00	910-0104-00	910-0104-00	910-0104-00	910-0104-00	910-0104-00	910-0104-00	910-0104-00
010-0142-02	Valve-service	910-0142-02	910-0142-02	910-0142-02	910-0142-02	910-0142-02	910-0142-02	910-0142-02	910-0142-02	910-0142-02	910-0142-02
010-0179-00	Valve-service	910-7009-01	910-7009-01	910-7009-01	910-7009-01	910-7009-01	910-7009-01	910-7009-01	910-7009-01	910-7009-01	910-7009-01
010-0180-00	Valve-service	910-0180-00	910-0180-00	910-0180-00	910-0180-00	910-0180-00	910-0180-00	910-0180-00	910-0180-00	910-0180-00	910-0180-00
010-7003-01	Valve-check	910-7003-01	910-7003-01	910-7003-01	910-7003-01	910-7003-01	910-7003-01	910-7003-01	910-7003-01	910-7003-01	910-7003-01
012-1401-04	Contact		912-1401-04		912-1401-04		912-1401-04		912-1401-04		
012-1401-06	Contact	912-3040-02		912-3040-02		912-3040-02		912-3040-02		912-3040-02	912-3040-02
013-7000-31	Filter-drier	913-7000-31	913-7000-31	913-7000-31	913-7000-31	913-7000-31	913-7000-31	913-7000-31	913-7000-31	913-7000-31	913-7000-31
014-0006-15	Capacitor-start								914-0006-10		
014-0061-27	Capacitor-start		914-0036-03		914-0036-03		914-0036-03				
014-0064-06	Capacitor-running										
014-0064-08	Capacitor-running		914-0037-12								
014-0064-27	Capacitor-running						914-0037-38		914-0037-38		
014-0064-28	Capacitor-running				914-0037-39						
014-0083-00	Capacitor-fan	914-0083-00	914-0083-00	914-0083-00	914-0083-00	914-0083-00	914-0083-00	914-0083-00	914-0083-00	914-0083-00	914-0083-00
018-0094-05	Heater-crankcase	918-0052-05	918-0052-05	918-0052-05							
018-0095-04	Heater-crankcase				918-0043-00	918-0043-00	918-0043-00	918-0043-00	918-0043-00	918-0043-00	918-0043-00
018-7013-00	Heater-receiver	918-0100-00	918-0100-00	918-0100-00	918-0100-00	918-0100-00	918-0100-00	918-0100-00	918-0100-00	918-0100-00	918-0100-00
022-0644-00	Base-plate	922-0644-00	922-0644-00	922-0644-00	922-0644-00	922-0644-00	922-0644-00	922-0644-00	922-0644-00	922-0644-00	922-0644-00
023-0068-00	Coil-EXV						923-0068-00	923-0068-00	923-0068-00	923-0068-00	923-0068-00
023-0068-04	Coil-EXV	923-0068-00	923-0068-00	923-0068-00	923-0068-00	923-0068-00					
024-0262-00	Guard-cond coil						924-0262-00	924-0262-00	924-0262-00	924-0262-00	924-0262-00
024-0263-00	Guard-cond coil	924-0263-00	924-0263-00	924-0263-00	924-0263-00	924-0263-00					
024-0264-00	Guard-fan	924-0264-00	924-0264-00	924-0264-00	924-0264-00	924-0264-00	924-0264-00	924-0264-00	924-0264-00	924-0264-00	924-0264-00
032-0359-00	Clamp-capacitor		032-0359-00								
032-0359-01	Clamp-capacitor		032-0359-01		032-0359-01						
032-0359-02	Clamp-capacitor								032-0359-02		
032-0359-04	Clamp-capacitor						032-0359-04		032-0359-04		
032-0592-00	Holder-sensor	032-0592-00	032-0592-00	032-0592-00	032-0592-00	032-0592-00	032-0592-00	032-0592-00	032-0592-00	032-0592-00	032-0592-00
032-0688-02	Clip-pipe	032-0688-02	032-0688-02	032-0688-02	032-0688-02	032-0688-02	032-0688-02	032-0688-02	032-0688-02	032-0688-02	032-0688-02
032-0731-00	Clip-divider plate	032-0731-00	032-0731-00	032-0731-00	032-0731-00	032-0731-00	032-0731-00	032-0731-00	032-0731-00	032-0731-00	032-0731-00
032-0743-00	Clamp-capacitor	032-0743-00	032-0743-00	032-0743-00	032-0743-00	032-0743-00	032-0743-00	032-0743-00	032-0743-00	032-0743-00	032-0743-00
032-7003-06	Clamp-tube	032-7003-06	032-7003-06	032-7003-06	032-7003-06	032-7003-06	032-7003-06	032-7003-06	032-7003-06	032-7003-06	032-7003-06
037-0038-01	Transformer control	037-0038-01	037-0038-01	037-0038-01	037-0038-01	037-0038-01	037-0038-01	037-0038-01	037-0038-01	037-0038-01	037-0038-01
039-0026-06	Transducer-pressure	039-0026-06	039-0026-06	039-0026-06	039-0026-06	039-0026-06	039-0026-06	039-0026-06	039-0026-06	039-0026-06	039-0026-06

980-0080-00 Master Service Kit

Component	Description
037-0038-01	Transformer control
039-0026-06	Transducer-pressure
529-0060-04	Power cable-molded plug
529-0060-25	Power cable-molded plug
529-0222-01	Cable-wire harness
529-0222-02	Cable-wire harness
912-1401-04	Contact
912-3040-02	Contact
914-0083-00	Capacitor-fan
923-0068-00	Coil-EXV
929-0304-00	Cable-sensor assembly
940-0181-00	Relay-defrost
943-0214-00	Controller-elect.unit
971-7018-00	Breaker-circuit
980-0086-00	Terminal block assembly
980-0086-01	Terminal block assembly

X-Line Service - Medium Temp

Production Part	Description	XFAM-017Z-TFC-081	XFAM-022Z-CFV-081	XFAM-022Z-TFC-081	XFAM-030Z-CFV-081	XFAM-030Z-TFC-081	XFAM-045Z-CFV-081	XFAM-045Z-TFC-081	XFAM-050Z-CFV-081	XFAM-050Z-TFC-081	XFAM-060Z-TFC-081
040-0166-37	Relay-potential	940-0001-79		940-0001-79			940-0001-79		940-0001-79		
040-0181-00	Relay-defrost	940-0181-00	940-0181-00	940-0181-00	940-0181-00	940-0181-00	940-0181-00	940-0181-00	940-0181-00	940-0181-00	940-0181-00
050-0316-01	Motor-fan	050-0316-01	050-0316-01	050-0316-01	050-0316-01	050-0316-01	050-0316-01	050-0316-01	050-0316-01	050-0316-01	050-0316-01
062-7053-00	Box-electrical	062-7053-00	062-7053-00	062-7053-00	062-7053-00	062-7053-00	062-7053-00	062-7053-00	062-7053-00	062-7053-00	062-7053-00
066-0387-00	Condenser									066-0387-00	
066-0388-00	Condenser							066-0388-00		066-0388-00	
066-0389-00	Condenser	066-0389-00	066-0389-00	066-0389-00							
066-0393-00	Condenser										
066-0800-00	Condenser					066-0800-00		066-0800-00			
071-7018-00	Breaker-circuit	971-7018-00	971-7018-00	971-7018-00	971-7018-00	971-7018-00	971-7018-00	971-7018-00	971-7018-00	971-7018-00	971-7018-00
074-1205-00	Bracket-stabilizer top	074-1205-00	074-1205-00	074-1205-00	074-1205-00	074-1205-00	074-1205-00	074-1205-00	074-1205-00	074-1205-00	074-1205-00
074-1207-01	Bracket-EXV	074-1207-01	074-1207-01	074-1207-01	074-1207-01	074-1207-01	074-1207-01	074-1207-01	074-1207-01	074-1207-01	074-1207-01
074-1424-00	Bracket-control mtg	074-1424-00	074-1424-00	074-1424-00	074-1424-00	074-1424-00					
074-1425-00	Bracket-control mtg							074-1425-00		074-1425-00	
074-7284-00	Bracket-cover right	074-7284-00	074-7284-00	074-7284-00	074-7284-00	074-7284-00	074-7284-00	074-7284-00	074-7284-00	074-7284-00	074-7284-00
080-0139-08	Terminal block	980-0139-08	980-0139-08	980-0139-08	980-0139-08	980-0139-08	980-0139-08	980-0139-08	980-0139-08	980-0139-08	980-0139-08
080-0139-09	Terminal block	980-0139-09	980-0139-09	980-0139-09	980-0139-09	980-0139-09	980-0139-09	980-0139-09	980-0139-09	980-0139-09	980-0139-09
083-6931-00	Blade	983-6931-00	983-6931-00	983-6931-00	983-6931-00	983-6931-00	983-6931-00	983-6931-00	983-6931-00	983-6931-00	983-6931-00
085-7031-06	Control-pressure	985-7031-06	985-7031-06	985-7031-06	985-7031-06	985-7031-06	985-7031-06	985-7031-06	985-7031-06	985-7031-06	985-7031-06
505-7099-00	Door assembly	505-7099-00	505-7099-00	505-7099-00	505-7099-00	505-7099-00					
505-7098-00	Door assembly							505-7098-00		505-7098-00	
510-0730-00	Valve - pressure relief	910-0730-00	910-0730-00	910-0730-00	910-0730-00	910-0730-00	910-0730-00	910-0730-00	910-0730-00	910-0730-00	910-0730-00
510-7062-00	Valve-access	910-7062-00	910-7062-00	910-7062-00	910-7062-00	910-7062-00	910-7062-00	910-7062-00	910-7062-00	910-7062-00	910-7062-00
529-0060-04	Power cable-molded plug	529-0060-04	529-0060-04	529-0060-04	529-0060-04	529-0060-04					
529-0060-25	Power cable-molded plug							529-0060-25		529-0060-25	
529-0220-00	Cable-sensor assembly	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00
529-0220-01	Cable-sensor assembly	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00					
529-0220-02	Cable-sensor assembly	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00
529-0220-09	Cable-sensor assembly							929-0304-00		929-0304-00	
529-0222-01	Cable-wire harness	529-0222-01	529-0222-01	529-0222-01	529-0222-01	529-0222-01					
529-0222-02	Cable-wire harness							529-0222-02		529-0222-02	
543-0214-00	Controller-elec. unit	943-0214-00	943-0214-00	943-0214-00	943-0214-00	943-0214-00	943-0214-00	943-0214-00	943-0214-00	943-0214-00	943-0214-00
570-7003-06	Indicator-moisture	970-7003-06	970-7003-06	970-7003-06	970-7003-06	970-7003-06	970-7003-06	970-7003-06	970-7003-06	970-7003-06	970-7003-06
577-0542-00	Receiver assembly	577-0542-00	577-0542-00	577-0542-00	577-0542-00	577-0542-00					
577-0542-01	Receiver assembly							577-0542-01		577-0542-01	

X-Line Service - Medium Temp

Production Part	Description	XFAM-017Z-TFC-081	XFAM-022Z-CFV-081	XFAM-022Z-TFC-081	XFAM-030Z-CFV-081	XFAM-030Z-TFC-081	XFAM-045Z-CFV-081	XFAM-045Z-TFC-081	XFAM-050Z-CFV-081	XFAM-050Z-TFC-081	XFAM-060Z-TFC-081
580-0086-00	Terminal block assembly		980-0086-00		980-0086-00		980-0086-00		980-0086-00		
580-0086-01	Terminal block assembly	980-0086-01		980-0086-01		980-0086-01		980-0086-01		980-0086-01	980-0086-01
ZS09KAE-PFV-118	Welded compressor										
ZS09KAE-TF5-118	Welded compressor										
ZS11KAE-PFV-118	Welded compressor										
ZS11KAE-TF5-118	Welded compressor	ZS11KAE-TF5-818									
ZS15KAE-PFV-118	Welded compressor		ZS15KAE-PFV-818								
ZS15KAE-TF5-118	Welded compressor			ZS15KAE-TF5-818							
ZS21KAE-PFV-118	Welded compressor				ZS21KAE-PFV-818						
ZS21KAE-TF5-118	Welded compressor					ZS21KAE-TF5-818					
ZS33KAE-PFV-118	Welded compressor						ZS33KAE-PFV-818				
ZS33KAE-TF5-118	Welded compressor							ZS33KAE-TF5-818			
ZS38K4E-PFV-250	Welded compressor								ZF15K4E-PFV-931		
ZS38K4E-TF5-250	Welded compressor									ZF15K4E-TF5-931	
ZS45K4E-TF5-250	Welded compressor										ZF18K4E-TF5-931
Accessories	Master service kit	980-0080-00	980-0080-00	980-0080-00	980-0080-00	980-0080-00	980-0080-00	980-0080-00	980-0080-00	980-0080-00	980-0080-00
	Wall bracket	074-7286-00	074-7286-00	074-7286-00	074-7286-00	074-7286-00	074-7286-00	074-7286-00	074-7286-00	074-7286-00	074-7286-00
	Stand-adjustable	074-7289-00	074-7289-00	074-7289-00	074-7289-00	074-7289-00	074-7289-00	074-7289-00	074-7289-00	074-7289-00	074-7289-00
	PC interface kit	943-0224-00	943-0224-00	943-0224-00	943-0224-00	943-0224-00	943-0224-00	943-0224-00	943-0224-00	943-0224-00	943-0224-00
	Remote display	143-0023-00	143-0023-00	143-0023-00	143-0023-00	143-0023-00	143-0023-00	143-0023-00	143-0023-00	143-0023-00	143-0023-00

X-Line Service - All Extended Medium Temp

Production Part	Description	XFAP-015Z-CFV-081	XFAP-015Z-TFC-081	XFAP-017Z-CFV-081	XFAP-017Z-TFC-081	XFAP-022Z-CFV-081	XFAP-022Z-TFC-081
003-1220-00	Valve-plate	903-1220-00	903-1220-00	903-1220-00	903-1220-00	903-1220-00	903-1220-00
003-1487-00	Plate-divider	903-1487-00	903-1487-00	903-1487-00	903-1487-00	903-1487-00	903-1487-00
003-1576-00	Plate-divider						
005-1273-00	Cover-top	905-1273-00	905-1273-00	905-1273-00	905-1273-00	905-1273-00	905-1273-00
005-1280-00	Hand-wide grip	905-1280-00	905-1280-00	905-1280-00	905-1280-00	905-1280-00	905-1280-00
005-1331-00	Cover-right	905-1331-00	905-1331-00	905-1331-00	905-1331-00	905-1331-00	905-1331-00
005-1332-00	Cover-right						
005-7193-00	Cover-handle	905-7193-00	905-7193-00	905-7193-00	905-7193-00	905-7193-00	905-7193-00
005-7193-01	Hand-grip	905-7193-01	905-7193-01	905-7193-01	905-7193-01	905-7193-01	905-7193-01
005-7214-00	Plate-front left						
005-7215-00	Plate-front left	905-7215-00	905-7215-00	905-7215-00	905-7215-00	905-7215-00	905-7215-00
005-7230-00	Cover-electrical box	905-7230-00	905-7230-00	905-7230-00	905-7230-00	905-7230-00	905-7230-00
010-0104-00	Valve-EXV	910-0104-00	910-0104-00	910-0104-00	910-0104-00	910-0104-00	910-0104-00
010-0142-02	Valve-service	910-0142-02	910-0142-02	910-0142-02	910-0142-02	910-0142-02	910-0142-02
010-0179-00	Valve-service	910-7009-01	910-7009-01	910-7009-01	910-7009-01	910-7009-01	910-7009-01
010-0180-00	Valve-service	910-0180-00	910-0180-00	910-0180-00	910-0180-00	910-0180-00	910-0180-00
010-7003-01	Valve-check	910-7003-01	910-7003-01	910-7003-01	910-7003-01	910-7003-01	910-7003-01
012-1401-04	Contact	912-1401-04		912-1401-04		912-1401-04	
012-1401-06	Contact		912-3040-02		912-3040-02		912-3040-02
013-7000-31	Filter-drier	913-7000-31	913-7000-31	913-7000-31	913-7000-31	913-7000-31	913-7000-31
013-7026-00	Filter-screen						
014-0006-15	Capacitor-start						
014-0061-27	Capacitor-start	914-0036-03		914-0036-03		914-0036-03	
014-0064-06	Capacitor-running	914-0037-10		914-0037-10			
014-0064-08	Capacitor-running					914-0037-12	
014-0064-18	Capacitor-running						
014-0064-25	Capacitor-running						
014-0064-27	Capacitor-running						
014-0064-28	Capacitor-running						
014-0064-35	Capacitor-running						
014-0083-00	Capacitor-fan	914-0083-00	914-0083-00	914-0083-00	914-0083-00	914-0083-00	914-0083-00
018-0094-05	Heater-crankcase	918-0052-05	918-0052-05	918-0052-05	918-0052-05	918-0052-05	918-0052-05
018-0095-04	Heater-crankcase						
018-7013-00	Heater-receiver	918-0100-00	918-0100-00	918-0100-00	918-0100-00	918-0100-00	918-0100-00
022-0644-00	Base-plate	922-0644-00	922-0644-00	922-0644-00	922-0644-00	922-0644-00	922-0644-00
023-0068-00	Coil-EXV						
023-0068-04	Coil-EXV	923-0068-00	923-0068-00	923-0068-00	923-0068-00	923-0068-00	923-0068-00
024-0262-00	Guard-cond coil						
024-0263-00	Guard-cond coil	924-0263-00	924-0263-00	924-0263-00	924-0263-00	924-0263-00	924-0263-00
024-0264-00	Guard fan	924-0264-00	924-0264-00	924-0264-00	924-0264-00	924-0264-00	924-0264-00
032-0359-00	Clamp-capacitor	032-0359-00		032-0359-00		032-0359-00	
032-0359-01	Clamp-capacitor	032-0359-01		032-0359-01		032-0359-01	
032-0359-02	Clamp-capacitor						
032-0359-04	Clamp-capacitor						
032-0592-00	Holder-sensor	032-0592-00	032-0592-00	032-0592-00	032-0592-00	032-0592-00	032-0592-00

980-0080-00 Master Service Kit

Component	Description
037-0038-01	Transformer control
039-0026-06	Transducer-pressure
529-0060-04	Power cable-molded plug
529-0060-25	Power cable-molded plug
529-0222-01	Cable-wire harness
529-0222-02	Cable-wire harness
912-1401-04	Contact
912-3040-02	Contact
914-0083-00	Capacitor-fan
923-0068-00	Coil-EXV
929-0304-00	Cable-sensor assembly
940-0181-00	Relay-defrost
943-0214-00	Controller-elect.unit
971-7018-00	Breaker-circuit
980-0086-00	Terminal block assembly
980-0086-01	Terminal block assembly

	Production Part	Description	XFAP-030Z-CFV-081	XFAP-030Z-TFC-081	XFAP-045Z-CFV-081	XFAP-045Z-TFC-081	XFAP-050Z-CFV-081	XFAP-050Z-TFC-081	XFAP-060Z-TFC-081
	003-1220-00	Valve-plate	903-1220-00	903-1220-00	903-1220-00	903-1220-00	903-1220-00	903-1220-00	903-1220-00
	003-1487-00	Plate-divider	903-1487-00	903-1487-00					
	003-1576-00	Plate-divider			903-1576-00	903-1576-00	903-1576-00	903-1576-00	903-1576-00
	005-1273-00	Cover-top	905-1273-00	905-1273-00	905-1273-00	905-1273-00	905-1273-00	905-1273-00	905-1273-00
	005-1280-00	Hand-wide grip	905-1280-00	905-1280-00	905-1280-00	905-1280-00	905-1280-00	905-1280-00	905-1280-00
	005-1331-00	Cover-right	905-1331-00	905-1331-00					
	005-1332-00	Cover-right			905-1332-00	905-1332-00	905-1332-00	905-1332-00	905-1332-00
	005-7193-00	Cover-handle	905-7193-00	905-7193-00	905-7193-00	905-7193-00	905-7193-00	905-7193-00	905-7193-00
	005-7193-01	Hand-grip	905-7193-01	905-7193-01	905-7193-01	905-7193-01	905-7193-01	905-7193-01	905-7193-01
	005-7214-00	Plate-front left			905-7214-00	905-7214-00	905-7214-00	905-7214-00	905-7214-00
	005-7215-00	Plate-front left	905-7215-00	905-7215-00					
	005-7230-00	Cover-electrical box	905-7230-00	905-7230-00	905-7230-00	905-7230-00	905-7230-00	905-7230-00	905-7230-00
	010-0104-00	Valve-EXV	910-0104-00	910-0104-00	910-0104-00	910-0104-00	910-0104-00	910-0104-00	910-0104-00
	010-0142-02	Valve-service	910-0142-02	910-0142-02	910-0142-02	910-0142-02	910-0142-02	910-0142-02	910-0142-02
	010-0179-00	Valve-service	910-7009-01	910-7009-01	910-7009-01	910-7009-01	910-7009-01	910-7009-01	910-7009-01
	010-0180-00	Valve-service	910-0180-00	910-0180-00	910-0180-00	910-0180-00	910-0180-00	910-0180-00	910-0180-00
	010-7003-01	Valve-check	910-7003-01	910-7003-01	910-7003-01	910-7003-01	910-7003-01	910-7003-01	910-7003-01
	012-1401-04	Contact	912-1401-04		912-1401-04		912-1401-04		
	012-1401-06	Contact		912-3040-02		912-3040-02		912-3040-02	912-3040-02
	013-7000-31	Filter-drier	913-7000-31	913-7000-31	913-7000-31	913-7000-31	913-7000-31	913-7000-31	913-7000-31
	013-7026-00	Filter-screen							
	014-0006-15	Capacitor-start					914-0006-10		
	014-0061-27	Capacitor-start	914-0036-03		914-0036-03				
	014-0064-06	Capacitor-running							
	014-0064-08	Capacitor-running							
	014-0064-18	Capacitor-running							
	014-0064-25	Capacitor-running							
	014-0064-27	Capacitor-running			914-0037-38		914-0037-38		
	014-0064-28	Capacitor-running	914-0037-39						
	014-0064-35	Capacitor-running							
	014-0083-00	Capacitor-fan	914-0083-00	914-0083-00	914-0083-00	914-0083-00	914-0083-00	914-0083-00	914-0083-00
	018-0094-05	Heater-crankcase							
	018-0095-04	Heater-crankcase	918-0043-00	918-0043-00	918-0043-00	918-0043-00	918-0043-00	918-0043-00	918-0043-00
	018-7013-00	Heater-receiver	918-0100-00	918-0100-00	918-0100-00	918-0100-00	918-0100-00	918-0100-00	918-0100-00
	022-0644-00	Base-plate	922-0644-00	922-0644-00	922-0644-00	922-0644-00	922-0644-00	922-0644-00	922-0644-00
	023-0068-00	Coil-EXV			923-0068-00	923-0068-00	923-0068-00	923-0068-00	923-0068-00
	023-0068-04	Coil-EXV	923-0068-00	923-0068-00					
	024-0262-00	Guard-cond coil			924-0262-00	924-0262-00	924-0262-00	924-0262-00	924-0262-00
	024-0263-00	Guard-cond coil	924-0263-00	924-0263-00					
	024-0264-00	Guard fan	924-0264-00	924-0264-00	924-0264-00	924-0264-00	924-0264-00	924-0264-00	924-0264-00
	032-0359-00	Clamp-capacitor							
	032-0359-01	Clamp-capacitor	032-0359-01						
	032-0359-02	Clamp-capacitor					032-0359-02		
	032-0359-04	Clamp-capacitor			032-0359-04		032-0359-04		
	032-0592-00	Holder-sensor	032-0592-00	032-0592-00	032-0592-00	032-0592-00	032-0592-00	032-0592-00	032-0592-00

X-Line Service - All Extended Medium Temp

Production Part	Description	XFAP-015Z-CFV-081	XFAP-015Z-TFC-081	XFAP-017Z-CFV-081	XFAP-017Z-TFC-081	XFAP-022Z-CFV-081	XFAP-022Z-TFC-081
032-0688-02	Clip-pipe	032-0688-02	032-0688-02	032-0688-02	032-0688-02	032-0688-02	032-0688-02
032-0731-00	Clip-divider plate	032-0731-00	032-0731-00	032-0731-00	032-0731-00	032-0731-00	032-0731-00
032-0743-00	Clamp-capacitor	032-0743-00	032-0743-00	032-0743-00	032-0743-00	032-0743-00	032-0743-00
032-7003-06	Clamp-tube	032-7003-06	032-7003-06	032-7003-06	032-7003-06	032-7003-06	032-7003-06
032-7052-00	Clamp-heat exchanger						
037-0038-01	Transformer control	037-0038-01	037-0038-01	037-0038-01	037-0038-01	037-0038-01	037-0038-01
039-0026-06	Transducer-pressure	039-0026-06	039-0026-06	039-0026-06	039-0026-06	039-0026-06	039-0026-06
040-0046-24	Relay-potential						
040-0166-37	Relay-potential	940-0001-79		940-0001-79		940-0001-79	
040-0181-00	Relay-defrost	940-0181-00	940-0181-00	940-0181-00	940-0181-00	940-0181-00	940-0181-00
050-0316-01	Motor-fan	050-0316-01	050-0316-01	050-0316-01	050-0316-01	050-0316-01	050-0316-01
062-7053-00	Box-electrical	062-7053-00	062-7053-00	062-7053-00	062-7053-00	062-7053-00	062-7053-00
066-0387-00	Condenser						
066-0388-00	Condenser						
066-0389-00	Condenser	066-0389-00	066-0389-00	066-0389-00	066-0389-00	066-0389-00	066-0389-00
066-0393-00	Condenser						
066-0800-00	Condenser						
067-0029-00	Heat exchanger						
067-0029-01	Heat exchanger						
071-7018-00	Breaker-current	971-7018-00	971-7018-00	971-7018-00	971-7018-00	971-7018-00	971-7018-00
074-1205-00	Bracket-stabilizer top	074-1205-00	074-1205-00	074-1205-00	074-1205-00	074-1205-00	074-1205-00
074-1207-01	Bracket-EXV	074-1207-01	074-1207-01	074-1207-01	074-1207-01	074-1207-01	074-1207-01
074-1424-00	Bracket-control mtg	074-1424-00	074-1424-00	074-1424-00	074-1424-00	074-1424-00	074-1424-00
074-1425-00	Bracket-control mtg						
074-7282-00	Bracket-mounting	074-7282-00	074-7282-00	074-7282-00	074-7282-00	074-7282-00	074-7282-00
074-7283-00	Mounting-heat exchanger						
074-7284-00	Bracket-cover right	074-7284-00	074-7284-00	074-7284-00	074-7284-00	074-7284-00	074-7284-00
077-0036-01	Tank-accumulator						
077-0037-01	Tank-accumulator	977-0037-01	977-0037-01	977-0037-01	977-0037-01	977-0037-01	977-0037-01
077-0057-00	Tank-oil separator						
080-0139-08	Terminal block	980-0139-08	980-0139-08	980-0139-08	980-0139-08	980-0139-08	980-0139-08
080-0139-09	Terminal block	980-0139-09	980-0139-09	980-0139-09	980-0139-09	980-0139-09	980-0139-09
083-6931-00	Blade	983-6931-00	983-6931-00	983-6931-00	983-6931-00	983-6931-00	983-6931-00
085-7031-06	Control-pressure	985-7031-06	985-7031-06	985-7031-06	985-7031-06	985-7031-06	985-7031-06
100-7034-00	Screw-ambient holder						
505-7099-00	Door assembly	505-7099-00	505-7099-00	505-7099-00	505-7099-00	505-7099-00	505-7099-00
505-7098-00	Door assembly						
510-0730-00	Valve - pressure relief	910-0730-00	910-0730-00	910-0730-00	910-0730-00	910-0730-00	910-0730-00
510-7062-00	Valve-access	910-7062-00	910-7062-00	910-7062-00	910-7062-00	910-7062-00	910-7062-00
529-0060-04	Power cable-molded plug	529-0060-04	529-0060-04	529-0060-04	529-0060-04	529-0060-04	529-0060-04
529-0060-25	Power cable-molded plug						
529-0114-08	Cable-transducer adapter						
529-0220-00	Cable-sensor assy.	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00
529-0220-01	Cable-sensor assy.	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00
529-0220-02	Cable-sensor assy.	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00
529-0220-03	Cable-sensor assy.						
529-0220-04	Cable-sensor assy.						
529-0220-05	Cable-sensor assy.						
529-0220-08	Cable-sensor assy.						
529-0220-09	Cable-sensor assy.						
529-0220-10	Cable-sensor assy.						
529-0222-01	Cable-wire harness	529-0222-01	529-0222-01	529-0222-01	529-0222-01	529-0222-01	529-0222-01
529-0222-02	Cable-wire harness						
543-0214-00	Controller-elect. unit	943-0214-00	943-0214-00	943-0214-00	943-0214-00	943-0214-00	943-0214-00
570-7003-06	Indicator-moisture	970-7003-06	970-7003-06	970-7003-06	970-7003-06	970-7003-06	970-7003-06
577-0542-00	Receiver assembly	577-0542-00	577-0542-00	577-0542-00	577-0542-00	577-0542-00	577-0542-00
577-0542-01	Receiver assembly						
580-0086-00	Terminal block assy.	980-0086-00		980-0086-00		980-0086-00	
580-0086-01	Terminal block assy.		980-0086-01		980-0086-01		980-0086-01

	Production Part	Description	XFAP-030Z-CFV-081	XFAP-030Z-TFC-081	XFAP-045Z-CFV-081	XFAP-045Z-TFC-081	XFAP-050Z-CFV-081	XFAP-050Z-TFC-081	XFAP-060Z-TFC-081
	032-0688-02	Clip-pipe	032-0688-02	032-0688-02	032-0688-02	032-0688-02	032-0688-02	032-0688-02	032-0688-02
	032-0731-00	Clip-divider plate	032-0731-00	032-0731-00	032-0731-00	032-0731-00	032-0731-00	032-0731-00	032-0731-00
	032-0743-00	Clamp-capacitor	032-0743-00	032-0743-00	032-0743-00	032-0743-00	032-0743-00	032-0743-00	032-0743-00
	032-7003-06	Clamp-tube	032-7003-06	032-7003-06	032-7003-06	032-7003-06	032-7003-06	032-7003-06	032-7003-06
	032-7052-00	Clamp-heat exchanger							
	037-0038-01	Transformer control	037-0038-01	037-0038-01	037-0038-01	037-0038-01	037-0038-01	037-0038-01	037-0038-01
	039-0026-06	Transducer-pressure	039-0026-06	039-0026-06	039-0026-06	039-0026-06	039-0026-06	039-0026-06	039-0026-06
	040-0046-24	Relay-potential							
	040-0166-37	Relay-potential	940-0001-79		940-0001-79		940-0001-79		
	040-0181-00	Relay-defrost	940-0181-00	940-0181-00	940-0181-00	940-0181-00	940-0181-00	940-0181-00	940-0181-00
	050-0316-01	Motor-fan	050-0316-01	050-0316-01	050-0316-01	050-0316-01	050-0316-01	050-0316-01	050-0316-01
	062-7053-00	Box-electrical	062-7053-00	062-7053-00	062-7053-00	062-7053-00	062-7053-00	062-7053-00	062-7053-00
	066-0387-00	Condenser					066-0387-00	066-0387-00	
	066-0388-00	Condenser			066-0388-00	066-0388-00			
	066-0389-00	Condenser							
	066-0393-00	Condenser							066-0393-00
	066-0800-00	Condenser	066-0800-00	066-0800-00					
	067-0029-00	Heat exchanger							
	067-0029-01	Heat exchanger							
	071-7018-00	Breaker-current	971-7018-00	971-7018-00	971-7018-00	971-7018-00	971-7018-00	971-7018-00	971-7018-00
	074-1205-00	Bracket-stabilizer top	074-1205-00	074-1205-00	074-1205-00	074-1205-00	074-1205-00	074-1205-00	074-1205-00
	074-1207-01	Bracket-EXV	074-1207-01	074-1207-01	074-1207-01	074-1207-01	074-1207-01	074-1207-01	074-1207-01
	074-1424-00	Bracket-control mtg	074-1424-00	074-1424-00					
	074-1425-00	Bracket-control mtg			074-1425-00	074-1425-00	074-1425-00	074-1425-00	074-1425-00
	074-7282-00	Bracket-mounting	074-7282-00	074-7282-00	074-7282-00	074-7282-00	074-7282-00	074-7282-00	074-7282-00
	074-7283-00	Mounting-heat exchanger							
	074-7284-00	Bracket-cover right	074-7284-00	074-7284-00	074-7284-00	074-7284-00	074-7284-00	074-7284-00	074-7284-00
	077-0036-01	Tank-accumulator			977-0036-01	977-0036-01	977-0036-01	977-0036-01	977-0036-01
	077-0037-01	Tank-accumulator	977-0037-01	977-0037-01					
	077-0057-00	Tank-oil separator							
	080-0139-08	Terminal block	980-0139-08	980-0139-08	980-0139-08	980-0139-08	980-0139-08	980-0139-08	980-0139-08
	080-0139-09	Terminal block	980-0139-09	980-0139-09	980-0139-09	980-0139-09	980-0139-09	980-0139-09	980-0139-09
	083-6931-00	Blade	983-6931-00	983-6931-00	983-6931-00	983-6931-00	983-6931-00	983-6931-00	983-6931-00
	085-7031-06	Control-pressure	985-7031-06	985-7031-06	985-7031-06	985-7031-06	985-7031-06	985-7031-06	985-7031-06
	100-7034-00	Screw-ambient holder							
	505-7099-00	Door assembly	505-7099-00	505-7099-00					
	505-7098-00	Door assembly			505-7098-00	505-7098-00	505-7098-00	505-7098-00	505-7098-00
	510-0730-00	Valve - pressure relief	910-0730-00	910-0730-00	910-0730-00	910-0730-00	910-0730-00	910-0730-00	910-0730-00
	510-7062-00	Valve-access	910-7062-00	910-7062-00	910-7062-00	910-7062-00	910-7062-00	910-7062-00	910-7062-00
	529-0060-04	Power cable-molded plug	529-0060-04	529-0060-04					
	529-0060-25	Power cable-molded plug			529-0060-25	529-0060-25			
	529-0114-08	Cable-transducer adapter							
	529-0220-00	Cable-sensor assy.	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00
	529-0220-01	Cable-sensor assy.	929-0304-00	929-0304-00					
	529-0220-02	Cable-sensor assy.	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00
	529-0220-03	Cable-sensor assy.							
	529-0220-04	Cable-sensor assy.							
	529-0220-05	Cable-sensor assy.							
	529-0220-08	Cable-sensor assy.							
	529-0220-09	Cable-sensor assy.			929-0304-00	929-0304-00	929-0304-00	929-0304-00	929-0304-00
	529-0220-10	Cable-sensor assy.							
	529-0222-01	Cable-wire harness	529-0222-01	529-0222-01					
	529-0222-02	Cable-wire harness			529-0222-02	529-0222-02	529-0222-02	529-0222-02	529-0222-02
	543-0214-00	Controller-elect. unit	943-0214-00	943-0214-00	943-0214-00	943-0214-00	943-0214-00	943-0214-00	943-0214-00
	570-7003-06	Indicator-moisture	970-7003-06	970-7003-06	970-7003-06	970-7003-06	970-7003-06	970-7003-06	970-7003-06
	577-0542-00	Receiver assembly	577-0542-00	577-0542-00					
	577-0542-01	Receiver assembly			577-0542-01	577-0542-01	577-0542-01	577-0542-01	577-0542-01
	580-0086-00	Terminal block assy.	980-0086-00		980-0086-00		980-0086-00		
	580-0086-01	Terminal block assy.		980-0086-01		980-0086-01		980-0086-01	980-0086-01

X-Line Service - All Extended Medium Temp								
Production Part	Description	XFAP-015Z-CFV-081	XFAP-015Z-TFC-081	XFAP-017Z-CFV-081	XFAP-017Z-TFC-081	XFAP-022Z-CFV-081	XFAP-022Z-TFC-081	
ZS09KAE-PFV-118	Welded compressor	ZS09KAE-PFV-818						
ZS09KAE-TF5-118	Welded compressor		ZS09KAE-TF5-818					
ZS11KAE-PFV-118	Welded compressor			ZS11KAE-PFV-818				
ZS11KAE-TF5-118	Welded compressor				ZS11KAE-TF5-818			
ZS15KAE-PFV-118	Welded compressor					ZS15KAE-PFV-818		
ZS15KAE-TF5-118	Welded compressor						ZS15KAE-TF5-818	
ZS21KAE-PFV-118	Welded compressor							
ZS21KAE-TF5-118	Welded compressor							
ZS33KAE-PFV-118	Welded compressor							
ZS33KAE-TF5-118	Welded compressor							
ZS38K4E-PFV-250	Welded compressor							
ZS38K4E-TF5-250	Welded compressor							
ZS45K4E-TF5-250	Welded compressor							
ZXI06KCE-PFV-687	Welded compressor							
ZXI06KCE-TF5-687	Welded compressor							
ZXI09KCE-TF5-687	Welded compressor							
ZXI11KCE-PFV-647	Welded compressor							
ZXI14KCE-PFV-647	Welded compressor							
ZXI14KCE-TF5-647	Welded compressor							
ZXI15KCE-TF5-647	Welded compressor							
ZXI16KCE-PFV-557	Welded compressor							
ZXI18KCE-TF5-557	Welded compressor							
Accessories	Master service kit	980-0080-00	980-0080-00	980-0080-00	980-0080-00	980-0080-00	980-0080-00	
	Wall bracket	074-7286-00	074-7286-00	074-7286-00	074-7286-00	074-7286-00	074-7286-00	
	Stand-adjustable	074-7289-00	074-7289-00	074-7289-00	074-7289-00	074-7289-00	074-7289-00	
	PC interface kit	943-0224-00	943-0224-00	943-0224-00	943-0224-00	943-0224-00	943-0224-00	
	Remote display	143-0023-00	143-0023-00	143-0023-00	143-0023-00	143-0023-00	143-0023-00	

	Production Part	Description	XFAP-030Z-CFV-081	XFAP-030Z-TFC-081	XFAP-045Z-CFV-081	XFAP-045Z-TFC-081	XFAP-050Z-CFV-081	XFAP-050Z-TFC-081	XFAP-060Z-TFC-081
	ZS09KAE-PFV-118	Welded compressor							
	ZS09KAE-TF5-118	Welded compressor							
	ZS11KAE-PFV-118	Welded compressor							
	ZS11KAE-TF5-118	Welded compressor							
	ZS15KAE-PFV-118	Welded compressor							
	ZS15KAE-TF5-118	Welded compressor							
	ZS21KAE-PFV-118	Welded compressor	ZS21KAE-PFV-818						
	ZS21KAE-TF5-118	Welded compressor		ZS21KAE-TF5-818					
	ZS33KAE-PFV-118	Welded compressor			ZS33KAE-PFV-818				
	ZS33KAE-TF5-118	Welded compressor				ZS33KAE-TF5-818			
	ZS38K4E-PFV-250	Welded compressor					ZF15K4E-PFV-931		
	ZS38K4E-TF5-250	Welded compressor						ZF15K4E-TF5-931	
	ZS45K4E-TF5-250	Welded compressor							ZF18K4E-TF5-931
	ZXI06KCE-PFV-687	Welded compressor							
	ZXI06KCE-TF5-687	Welded compressor							
	ZXI09KCE-TF5-687	Welded compressor							
	ZXI11KCE-PFV-647	Welded compressor							
	ZXI14KCE-PFV-647	Welded compressor							
	ZXI14KCE-TF5-647	Welded compressor							
	ZXI15KCE-TF5-647	Welded compressor							
	ZXI16KCE-PFV-557	Welded compressor							
	ZXI18KCE-TF5-557	Welded compressor							
	Accessories	Master service kit	980-0080-00	980-0080-00	980-0080-00	980-0080-00	980-0080-00	980-0080-00	980-0080-00
		Wall bracket	074-7286-00	074-7286-00	074-7286-00	074-7286-00	074-7286-00	074-7286-00	074-7286-00
		Stand-adjustable	074-7289-00	074-7289-00	074-7289-00	074-7289-00	074-7289-00	074-7289-00	074-7289-00
		PC interface kit	943-0224-00	943-0224-00	943-0224-00	943-0224-00	943-0224-00	943-0224-00	943-0224-00
		Remote display	143-0023-00	143-0023-00	143-0023-00	143-0023-00	143-0023-00	143-0023-00	143-0023-00

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Appendix

Additional Information

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



Copeland to Copeland condensing unit cross reference

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

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

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

Refrigerant change

Copeland to Copeland condensing unit cross reference

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

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

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

Refrigerant change

Copeland to Copeland condensing unit cross reference

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

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

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

Refrigerant change

Copeland to Copeland condensing unit cross reference

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

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

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

Refrigerant change

Copeland to Copeland condensing unit cross reference

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

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

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

Refrigerant change

Copeland to Copeland condensing unit cross reference

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

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

Tecumseh to Copeland condensing unit cross reference

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

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

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

Refrigerant change

Tecumseh to Copeland condensing unit cross reference

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

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

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

Refrigerant change

Emerson™ EK filter drier

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

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

Application

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

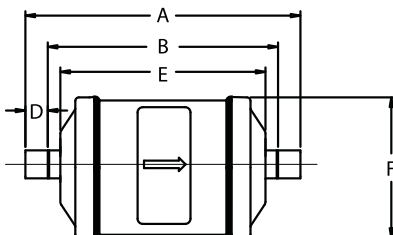
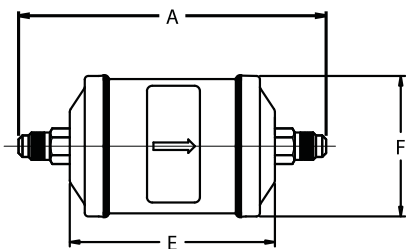
Features

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

Specifications

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

Dimensional Data



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



Ordering Information

PCN	Description	Dimensions (in)					Weight (lbs)
		A	B	D	E	F	
060009	EK 032	4.38	-	-	2.56	1.63	0.50
060012	EK 032S	3.88	3.13	0.38	2.56	1.63	
060011	EK 032FM	3.50	-	-	2.56	1.63	
060010	EK 032MF	3.50	-	-	2.56	1.63	
060013	EK 033	4.69	-	-	2.56	1.63	
060014	EK 033S	4.06	3.19	0.44	2.56	1.63	0.88
047601	EK 052	4.81	-	-	3.00	2.63	
057013	EK 052MF	4.50	-	-	3.00	2.63	
063978	EK 0525S	3.57	0.32	2.64	3.02	2.63	
047602	EK 052S	4.44	3.69	0.38	3.00	2.63	
047603	EK 053	5.13	-	-	3.00	2.63	1.25
047604	EK 053S	4.50	3.63	0.44	3.00	2.63	
047605	EK 082	5.63	-	-	3.81	2.63	
047606	EK 082S	5.25	4.50	0.38	3.81	2.63	
049551	EK 0825S	5.38	4.38	0.50	3.81	2.63	
056906	EK 083MF	5.94	-	-	3.81	2.63	1.25
047607	EK 083	5.94	-	-	3.81	2.63	
047608	EK 083S	5.31	4.44	0.44	3.81	2.63	
047609	EK 084	6.19	-	-	3.81	2.63	
047610	EK 084S	5.38	4.38	0.50	3.81	2.63	
047611	EK162	6.56	-	-	4.75	2.63	1.25
047612	EK 162S	6.19	5.44	0.38	4.75	2.63	
056045	EK 1625S	5.94	5.31	0.31	4.75	2.63	
047613	EK 163	6.88	-	-	4.75	2.63	
047614	EK 163S	6.25	5.44	0.44	4.75	2.63	
047615	EK 164	7.06	-	-	4.75	2.63	3.75
047616	EK 164S	6.31	5.31	0.50	4.75	2.63	
047617	EK 165	7.50	-	-	4.75	2.63	
047618	EK 165S	6.56	5.31	0.63	4.75	2.63	
047619	EK 167S	7.50	5.63	0.75	4.75	2.63	
048210	EK 303	9.63	-	-	7.50	3.06	4.75
048211	EK 303S	9.00	8.13	0.44	7.50	3.06	
048212	EK 304	9.88	-	-	7.50	3.06	
048213	EK 304S	9.13	8.13	0.50	7.50	3.06	
048214	EK 305	10.31	-	-	7.50	3.06	
048215	EK 305S	9.31	8.06	0.63	7.50	3.06	7.50
048216	EK 306S	9.69	8.44	-	7.50	3.06	
048217	EK 307S	9.88	8.38	0.75	7.50	3.06	
048218	EK 309S	10.25	8.44	0.94	7.50	3.06	
048219	EK 413	9.75	-	-	7.63	3.69	
048220	EK 414	10.00	-	-	7.63	3.69	4.75
048221	EK 414S	9.25	8.25	0.50	7.63	3.69	
048222	EK 415	10.44	-	-	7.63	3.69	
048223	EK 415S	9.44	8.19	0.63	7.63	3.69	
048224	EK 417S	10.00	8.50	0.75	7.63	3.69	
048225	EK 419S	10.94	8.50	0.75	7.63	3.69	7.50
048228	EK 757S	15.44	13.94	0.75	13.06	3.69	
048229	EK 759S	15.75	13.88	0.94	13.06	3.69	

¹Does not include weld bead

Standard product offering

Nomenclature (example: EK-083S)

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

EK Filter Drier

Capacity Data

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

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

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

³ 20 drops of water = 1 gram = 1 cc

⁴ For 2 PSI ΔP, Multiply values by 1.4

Refrigerant Volume (oz.)

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

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

HMI-Hermetic Moisture Indicators

Application

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

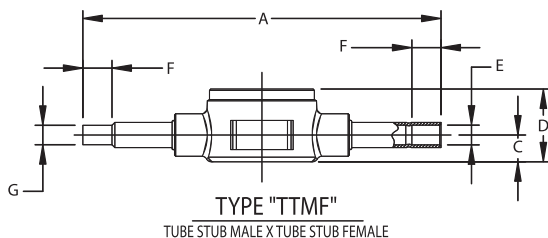
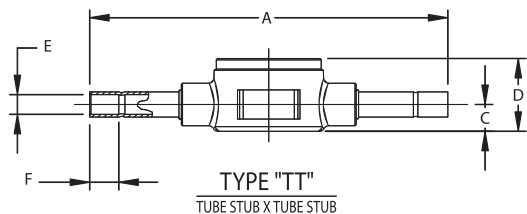
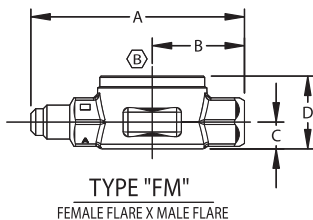
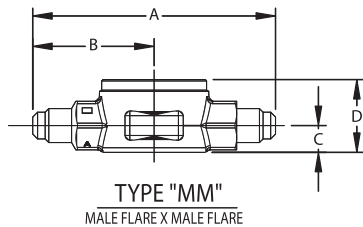
Features

- Highest sensitivity moisture indicator available
- Hermetic, leak-free construction
- Single indicator for all common refrigerants
- Accurate color calibration at low ppm levels and higher temperatures
- Wide angle viewing/high visibility window for ease of monitoring
- All brass corrosion resistant body for fewer leaks
- Solid copper connections

Specifications

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

Dimensional Data (in)



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

Ordering Information

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

Standard product offering

Nomenclature (example: HMI 1TT4)

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

Moisture Content Color Code (ppm H₂O)

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

Dimensional Data (in)

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

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

Emerson™ HF/HFK series thermal expansion valve

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

Features

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

Standard Body – HF & HFK

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

Extended Body – HF

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



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

Options

- ODF or SAE connections
- Straight-through or angle flow configurations
- Removable inlet strainer (ODF only)
- Internal or external equalizer

Specifications

- Maximum working pressure: 450 psig

Nomenclature example: HFESC 2 HC 5 FT 3/8 x 1/2 ODF S/T

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

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

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

Standard Body HF

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

Extended Body HF

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

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

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

Ordering Information

Use the following tables to order individual components.

HFK Body Selection Table

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

HF & HFK Power Element Table

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

HFK Cage Nominal* Capacity Table

PCN	Description ¹	Cage Code	R-12	R-22	R-134a	R-404	R-507	R-502	R-407C
064868	KT-20299-0	0	1/8	1/4	1/4	1/8	1/8	1/8	1/4
064869	KT-20299-1	1	1/4	1/2	1/2	1/4	1/4	1/4	1/2
064870	KT-20299-2	2	1/2	1	3/4	1/2	1/2	1/2	1
064871	KT-20299-3	3	1	1 1/2	1	1	1	1	1 1/2
064872	KT-20299-4	4	1 1/4	2	1 1/2	1 1/4	1 1/4	1 1/4	2
064873	KT-20299-5	5	1 1/2	2 1/2	1 3/4	1 1/2	1 1/2	1 1/2	2 1/2
064874	KT-20299-6	6	2	3	2 1/2	2	2	2	3
064875	KT-20299-7	7	3 1/2	5 1/2	4	3 1/2	3 1/2	3 1/2	5 1/2

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

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

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

Cage Kit (PCN 064879)

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

Replacement Parts – SAE Inlet

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

Replacement Parts- HFSC & HFESC Only

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

HFK Accessories

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

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

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

Standard Product Offering

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

Flex-Line hoods for SystemPro™ condensing units

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



Hood Selection

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

Hood Specification Data

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

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

Flex-Line hoods for semi-hermetic condensing units

Hood Selection

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

Flex-Line hoods for scroll condensing units

Hood Selection

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

Refrigerants and lubricants approved for use in Copeland™ compressors

Refrigerants	Class*	Similar to	Application		Preferred	Lubricant choices		Comments
			Retrofit	New		Alternate #1	Alternate #2	
Ozone depleting	CFR-12		L,M		MIN	AB & MIN		Phased out in 1996
	CFR-502		L,M		MIN	AB & MIN	POE-32	Phased out in 1996
	HCFC R-22		L,M,H		MIN	AB & MIN	POE-32	No new equipment 2010**
	HCFC R-401A	R-12	M,H		AB & MIN	POE-32 & MIN	POE-32	For service applications only, trade name: Freon™ MP39
	HCFC R-401B	R-12	L,M		AB & MIN	POE-32 & MIN	POE-32	For service applications only, trade name: Freon MP66
	HCFC R-402A	R-502	L,M		AB & MIN	POE-32 & MIN	POE-32	For service applications only, trade name: Freon HP80
	HCFC R-402B	R-502	L,M		AB & MIN	POE-32 & MIN	POE-32	For service applications only, trade name: Freon HP81
	HCFC R-408A	R-502	L,M		AB & MIN	POE-32 & MIN	POE-32	For service applications only, trade name: FX10
	HCFC R-409A	R-12	L,M		AB & MIN	POE-32 & MIN	POE-32	For service applications only, trade name: FX56
	HFC R-134a	R-12	M,H	M,H	POE-32			Hatcol 4408/Savsyn 200KC for use with specific Copeland compressors designed for R-134a manufactured in India
	HFC R-404A	R-12	L,M	L,M	POE-22B			Freon HP62, Forane™ FX70
	HFC R-507	R-502	L,M	L,M	POE-32			For use with compressors manufactured in India
	HFC R-407A	R-502	L,M	L,M	POE-22C			Genetron™ AZ50
	HFC R-407C	R-22	L,M	L,M	POE-32			
HFC R-407F	R-22	L,M,H	L,M,H	POE-32				
R-448A	R-22/R-404A	L,M	L,M	POE-32			Freon 9000/KLEA 66	
R-449A	R-22/R-404A	L,M	L,M	POE-32			Discus™ and select refrigeration scroll models (ZF/ZB)	
R-450A	R-12/R-134a	M,H	M,H	POE-32			Solstice™ N40	
R-513A	R-12/R-134A	M,H	M,H	POE-32			Opteon™ XP40	
R-452A	R-22/R-404A	L,M	L,M	POE-32			Solstice N13 for refrigeration applications only	
Non-ozone depleting	HFC R-410A			Discus = L,M Scroll = M,H	POE-32			Opteon XP10 for refrigeration applications only
	HFC R-422A/D	R-22	L,M	M,H	PVE-68			OPTEON™ XP44 for U.S. and European pre-approved applications only
	HFC R-427A	R-22	L,M		POE-32	MIN	AB	ZP & ZB KCP Copeland Scroll™ models and certain Discus models only
	HFC R-438A	R-22	L,M		POE-32	MIN	AB	For use with specific highside variable speed compressors manufactured in Suzhou.
	R-704 helium			Cryogenic Sub-critical	PAG			Discus supermarket racks only
	R-744 CO ₂	A1		Trans-critical	POE-68 PAG-68			Discus supermarket racks only; Freon MO99
	R-32	A2L		M,H	POE-68 POE-32B			ZC Copeland Scroll models only
	R-290 propane	A3		L,M,H	POE-68B			4MTLS Discus and ZO Copeland Scroll models for CO ₂
				L,M	POE-22A			RFL 38 EP, PAG-B for CO ₂ compressor manufactured in Welkenraedt
					POE-32			4MTLS semi-hermetic compressors for medium temp trans-critical applications

Continued on reverse ➡



Legend:

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MIN:	Mineral Oil (Copeland 46BWMO, Calumet RO15, Chevron/Texaco Capella WF32, Sonneborn Suniso 3GS, 3GS-P, Savsol 3000, Sonneborn LP200 and Savsol LP200, KRP-32, KRW-35) Mineral oils are interchangeable for 'top off' purposes				
AB:	Alkyl Benzene Oil (Copeland Ultra 200, National NL AKB200R, Shrieve Zerol 200 TD, Sonneborn Suniso AKB200A, Shell 2212)				
POE-32:	Polyester Oil (Copeland Ultra 32-3MAF, Lubrizol Emkarate RL32-3MAF, Everest 32-3MAF, National NL PE32-3MAF, Parker EMKARATE RL32-3MAF/ (Virginia) LE323MAF, Nu Calgon 4314-66/EMKARATE RL32-3MAF, Everest 22 CC, Copeland Ultra 22 CC, Mobil Arctic 22 CC) Last three are approved for 'top off' only, 32-3MAF preferred				
POE-B:	SP32 for use with R-32 applications				
POE-32B:	Hatcol 4408, Savsyn 200KC				
POE-22A:	RL22H, RL22HB				
POE-22C:	HXL-8828, Hatcol 4440				
PAG:	Polyalkylene Glycol Oil (Lubrizol RPAG 62, UCON LB300X)				
PAG-68:	RFL 68EP for use in R-744 CO ₂				
PVE-68:					FVC 68D for high-side variable speed
POE-32 & MIN:					Minimum 50% POE
AB & MIN:					Minimum 50% Alkyl Benzene
POE-68:					Emkarate RL68HB oil for use with R-744 CO ₂ applications
POE-68B:					Hatcol 4467 POE 68 (ISO 68 viscosity grade), Chemtura
L:					Low Temperature Application (Refrigeration) for R-407A, R-407C, R-407F, R-422A/D, R-427A, R-438A, R-448A, R-449A Demand Cooling™ or auxiliary cooling may be required for low temperature application - See AE guidelines for details
M:					Medium Temperature Application (Refrigeration)
H:					High Temperature Application (Air-Conditioning, Heat Pump, Refrigeration)
					* ASHRAE Std. 34 Refrigerant Classification: A1 = Non-Flammable/Non-Toxic; A2, A2L = Mildly Flammable/Non-Toxic; A3 = Flammable/Non-Toxic; B2, B2L = Mildly Flammable/Toxic. A2L and B2L are lower flammability refrigerants with a maximum burning velocity of ≤ 3.9 in/sec (10cm/s)
					** A & R product lines with R-22 are only approved for use with AB oil.
					Spectronics AR-GLO 4/E Fluorescent Leak Detection Dye is approved for HFC/POE and HCFC/ Mineral Oil usage at the manufacturer's recommended concentrations.

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

For specific product availability and performance data refer to Emerson sales literature. Refer to Application Engineering bulletins, change-over guidelines and MSDS sheets for additional information at Emerson.com/OPI

For the most current information about approved refrigerants and lubricants visit Emerson.com/OPI

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