

# Copeland™ M-Line

Air-cooled and water-cooled condensing units

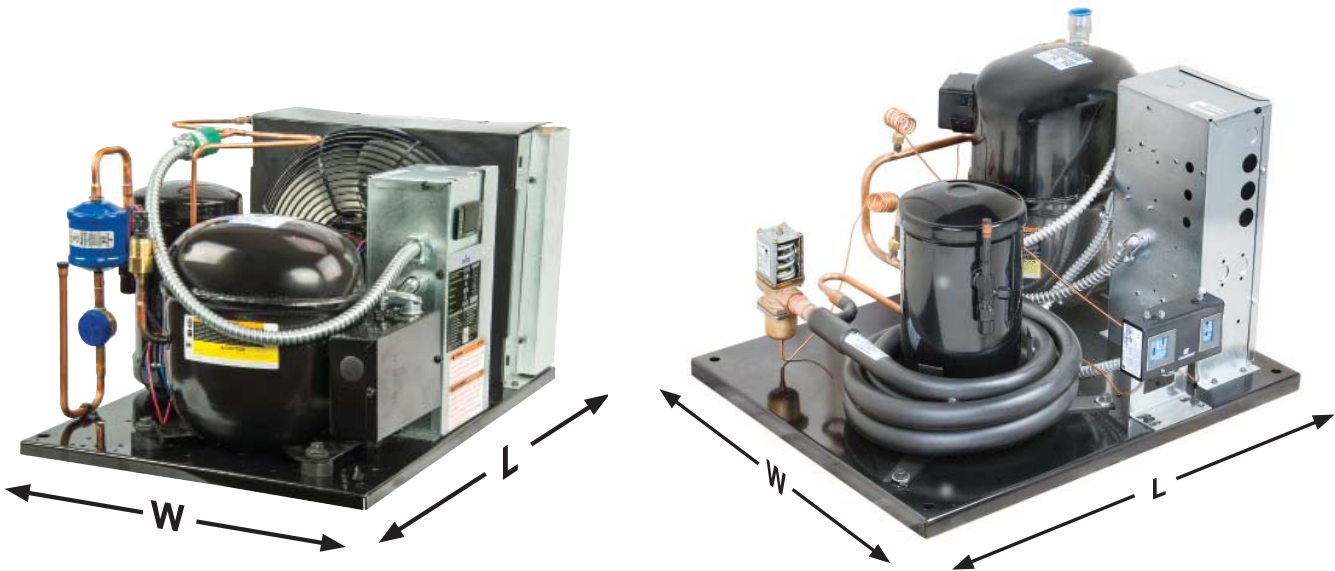
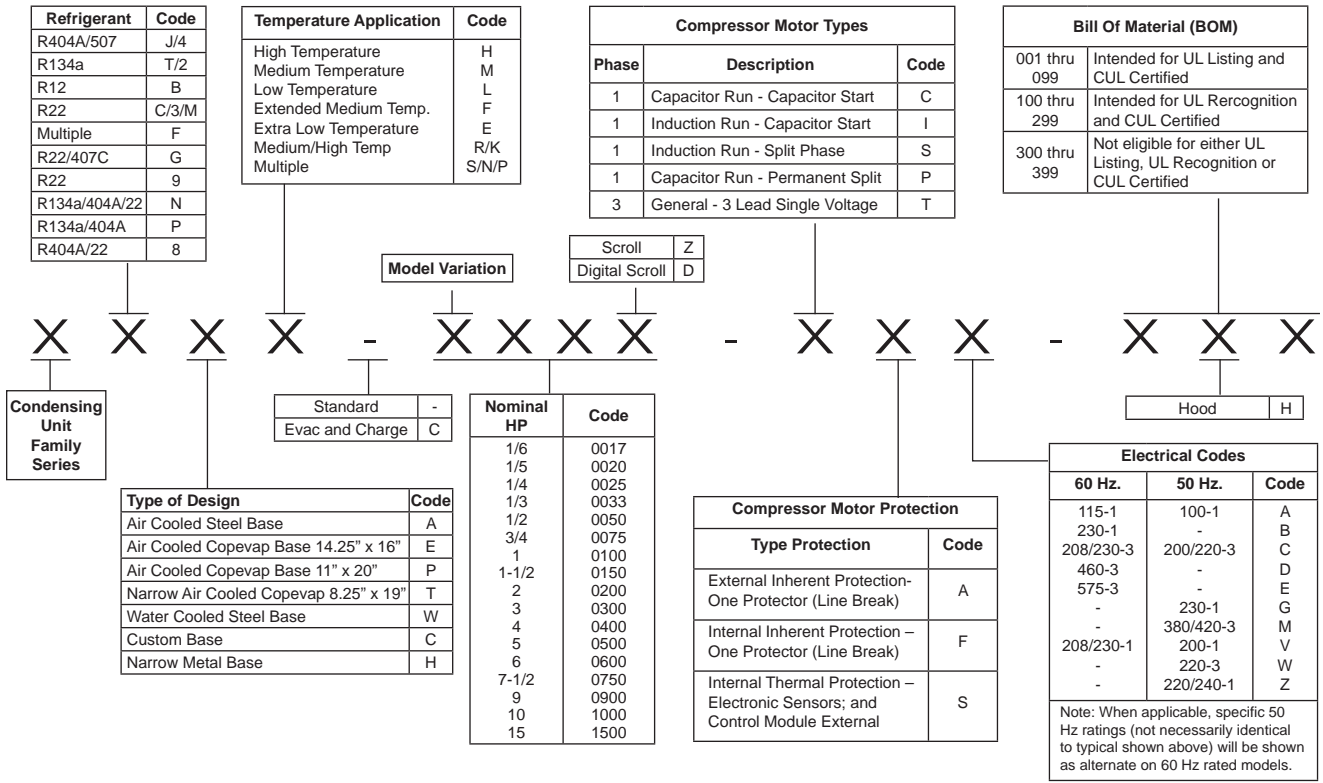


## Product Information

Horsepower: 1/6 – 3/4

Refrigerants: R-12, R-134a, R-22, R-404A, R-407C

# Nomenclature • Welded Condensing Units



# Bill of Materials Matrix

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

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

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

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

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

‡ Receiver without valve.

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

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

## Features

Copeland™ Hermetic Compressor and Heavy Duty Unit Bearing Fan Motor

Modular Components

Compact Design

All Models Rated Up To 110°F Ambient

## Benefits

Reliability

High Energy Efficiency

Low Sound & Vibration

Replacement Serviceability

Application Flexibility

Register for more product information

For more information, visit [EmersonClimate.com](http://EmersonClimate.com) and login to the Customer Portal to view Online Product Information

# R-404A Low Temp/EMT

# Copeland air-cooled condensing units

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

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

## R-404A Medium/High Temp

## Copeland air-cooled condensing units

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

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

## R-134a LT/EMT

## Copeland air-cooled condensing units

Model	Compressor	-25	-20	-15	-10	-5	0	5	10	15	20	25
90° Ambient												
M2FL-H023	AFE05C4E	450	540	640	740	850	970					
M2CL-A025	AFE10C3E	720	820	940	1070	1210	1370					
M2FL-A025	AFE10C3E	720	820	940	1070	1210	1370					
M2CL-B033	AFE12C3E	850	960	1090	1240	1410	1590					
M2FL-B033	AFE12C3E	850	960	1090	1240	1410	1590					
M2FL-0050	RFT18C1E	1390	1720	2050	2390	2740	3080					
M2FF-0056	RFT18C1E	1470	1840	2200	2580	2970	3370	3780	4200	4630	5070	5520
M2FF-E056	RFT18C1E	1470	1840	2200	2580	2970	3370	3780	4200	4630	5070	5520
100° Ambient												
M2FL-H023	AFE05C4E	400	480	570	660	770	890					
M2CL-A025	AFE10C3E	670	760	870	1000	1130	1280					
M2FL-A025	AFE10C3E	670	760	870	1000	1130	1280					
M2CL-B033	AFE12C3E	770	880	1000	1150	1300	1480					
M2FL-B033	AFE12C3E	770	880	1000	1150	1300	1480					
M2FL-0050	RFT18C1E		1470	1800	2130	2460	2800					
M2FF-0056	RFT18C1E	1260	1610	1960	2330	2700	3080	3470	3860	4270	4690	5120
M2FF-E056	RFT18C1E	1260	1610	1960	2330	2700	3080	3470	3860	4270	4690	5120
110° Ambient												
M2FL-H023	AFE05C4E	340	420	500	590	690	790					
M2CL-A025	AFE10C3E		700	800	920	1050	1190					
M2FL-A025	AFE10C3E		700	800	920	1050	1190					
M2CL-B033	AFE12C3E		800	920	1050	1200	1360					
M2FL-B033	AFE12C3E		800	920	1050	1200	1360					
M2FL-0050	RFT18C1E					2190	2530					
M2FF-0056	RFT18C1E			1690	2040	2410	2780	3160	3540	3940	4340	4750
M2FF-E056	RFT18C1E			1690	2040	2410	2780	3160	3540	3940	4340	4750

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



# R-134a Med/High Temp

# Copeland air-cooled condensing units

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

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

## R-407C Med/High Temp

## Copeland air-cooled condensing units

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

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

## R-22 Med/High Temp

## Copeland air-cooled condensing units

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

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



## R-12 Low Temp

## Copeland air-cooled condensing units

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

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

## R-12 Med/High Temp

## Copeland air-cooled condensing units

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

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

## Physical and Electrical Data

## Copeland air-cooled condensing units

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

## Physical and Electrical Data

## Copeland air-cooled condensing units

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

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

## Physical and Electrical Data

## Copeland air-cooled condensing units

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

# Physical and Electrical Data

# Copeland air-cooled condensing units

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

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

## Physical and Electrical Data

## Copeland air-cooled condensing units

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



## Physical and Electrical Data

## Copeland air-cooled condensing units

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

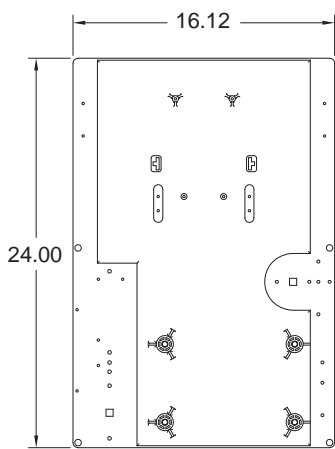
\*Receiver capacity applies only to units with receivers. See BOM Matrix for included components.

# R-404A Condensate Base LT/EMT

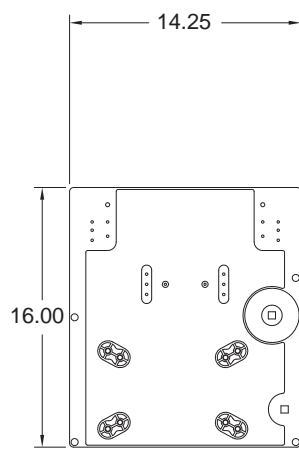
# Copevap welded air-cooled condensing units

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

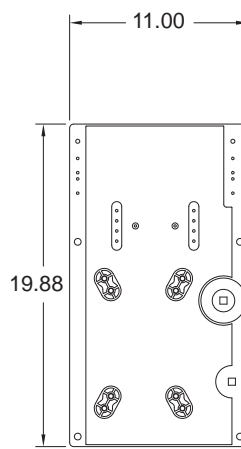
Capacities rated at 65°F return gas, 5°F subcooling



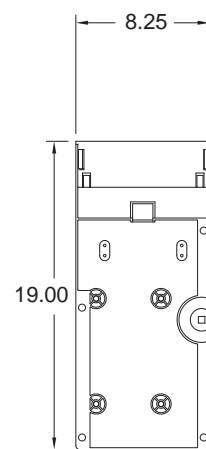
E base (3/4 HP and larger)



E base (3/4 HP and smaller)



P base



T base

## R-404A Condensate Base MT/HT

## Copevap welded air-cooled condensing units

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

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

## R-134a Condensate Base LT

## Copevap welded air-cooled condensing units

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

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

# R-134a Condensate Base MT/HT

# Copevap welded air-cooled condensing units

Model	Compressor	0	5	10	15	20	25	30	35	40	45
90° Ambient											
M2TH-H017	ARE13C4E	620	710	810	920	1030	1160	1300	1440	1600	1770
M2TH-0020	ARB17C3E	790	880	980	1090	1220	1350	1500	1650	1810	1970
M2TH-H020	ARE17C4E	760	870	980	1110	1240	1390	1540	1710	1890	2070
M2TH-0024	ARE25C3E	830	1000	1180	1360	1540	1730	1920	2130	2340	2550
M2EH-0024	ARE25C3E		1110	1310	1470	1640	1810	2000	2190	2390	2600
M2TH-0026	ARE27C3E	870	1100	1320	1530	1750	1970	2200	2430	2660	2910
M2EH-0026	ARE27C3E		1270	1530	1700	1890	2080	2280	2490	2710	2940
M2PH-0026	ARE27C3E		1270	1530	1700	1890	2080	2280	2490	2710	2940
M2TH-H033	ARE34C4E	1390	1540	1710	1900	2100	2320	2560	2800	3040	3290
M2PH-M033	ARE37C3E	940	1280	1580	1850	2120	2370	2620	2870	3130	3400
M2EH-A033	ARE37C3E		1500	1870	2110	2360	2620	2900	3190	3500	3820
M2PH-A033	ARE37C3E		1500	1870	2110	2360	2620	2900	3190	3500	3820
M2PH-0040	ARE41C3E		1670	1970	2270	2570	2870	3170	3490	3810	4150
M2EM-A048	RRT62C1E	2170	2460	2760	3070	3390	3740				
M2EM-0052	RRT64C1E	2670	3000	3360	3740	4140	4540				
M2EM-0059	RRT64C1E	2880	3260	3680	4130	4620	5130				
M2EH-0075	RRT81C1E	3530	4040	4590	5170	5790	6430	7110	7810	8530	9280
M2EM-0075	RRT10K1E	4080	4640	5230	5850	6490	7160				
M2EM-0078	RRT10K1E	4320	4920	5530	6150	6800	7460				
M2EH-0090	RRT10K1E	4400	5010	5630	6270	6930	7610	8320	9060	9830	10600
100° Ambient											
M2TH-H017	ARE13C4E	560	650	740	840	950	1070	1200	1340	1490	1640
M2TH-0020	ARB17C3E	730	810	900	1010	1120	1240	1380	1520	1680	1840
M2TH-H020	ARE17C4E	700	800	910	1030	1160	1290	1440	1600	1760	1940
M2TH-0024	ARE25C3E	760	920	1080	1250	1420	1600	1780	1970	2160	2360
M2EH-0024	ARE25C3E		1080	1230	1390	1530	1710	1870	2050	2230	2420
M2TH-0026	ARE27C3E	730	960	1190	1400	1620	1830	2050	2260	2480	2710
M2EH-0026	ARE27C3E		1170	1400	1570	1710	1890	2080	2300	2520	2710
M2PH-0026	ARE27C3E		1170	1400	1570	1710	1890	2080	2300	2520	2710
M2TH-H033	ARE34C4E	1290	1430	1580	1750	1940	2140	2350	2570		
M2PH-M033	ARE37C3E	840	1150	1430	1690	1940	2180	2410	2650		
M2EH-A033	ARE37C3E		1350	1690	1920	2150	2420	2670	2970	3230	3490
M2PH-A033	ARE37C3E		1350	1690	1920	2150	2420	2670	2970	3230	3490
M2PH-0040	ARE41C3E		1520	1790	2070	2350	2630	2910	3210	3510	
M2EM-A048	RRT62C1E		2250	2520	2810	3110	3430				
M2EM-0052	RRT64C1E			3080	3430	3790	4150				
M2EM-0059	RRT64C1E	2660	3020	3410	3830	4280	4750				
M2EH-0075	RRT81C1E		3680	4190	4740	5320	5930	6560	7220	7900	8590
M2EM-0075	RRT10K1E		4230	4770	5350	5950	6570				
M2EM-0078	RRT10K1E		4490	5060	5640	6230	6850				
M2EH-0090	RRT10K1E		4590	5180	5770	6380	7010	7660	8340	9040	9780
110° Ambient											
M2TH-H017	ARE13C4E	510	590	680	770	870	980	1100	1220	1360	1500
M2TH-0020	ARB17C3E	680	740	820	910	1020	1130	1260	1400	1540	1700
M2TH-H020	ARE17C4E		730	840	950	1070	1190	1330	1470	1630	1790
M2TH-0024	ARE25C3E	690	840	990	1150	1300	1470	1630	1810	1990	
M2EH-0024	ARE25C3E			1140	1290	1420	1590	1740	1920		
M2TH-0026	ARE27C3E		830	1060	1270	1480	1680	1880	2090		
M2EH-0026	ARE27C3E			1330	1470	1570	1740	1910	2100		
M2PH-0026	ARE27C3E			1330	1470	1570	1740	1910	2100		
M2TH-H033	ARE34C4E					1960					
M2EH-A033	ARE37C3E			1520	1740	1970	2220	2440	2720		
M2PH-A033	ARE37C3E			1520	1740	1970	2220	2440	2720		
M2PH-0040	ARE41C3E		1370	1630	1890	2140	2400				
M2EM-A048	RRT62C1E				2580	2860	3160				
M2EM-0052	RRT64C1E				3090						
M2EM-0059	RRT64C1E			3110	3510	3920	4350				
M2EH-0075	RRT81C1E			3820	4330	4870	5430	6020			
M2EM-0075	RRT10K1E				4850	5410					
M2EM-0078	RRT10K1E			4600	5130	5680	6240				
M2EH-0090	RRT10K1E			4720	5280	5840	6410	7010			

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

## R-22 Condensate Base

## Copevap welded air-cooled condensing units

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

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



## Physical and Electrical Data

## Copevap air-cooled condensing units

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



## Physical and Electrical Data

## Copevap air-cooled condensing units

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

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

## Physical and Electrical Data

## Copevap air-cooled condensing units

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

## Physical and Electrical Data

## Copevap air-cooled condensing units

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

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

## Copeland™ water-cooled condensing units

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

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

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

### R-404A

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

### Physical and Electrical Data

### Copeland™ welded water-cooled condensing units

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

## Copeland™ water-cooled condensing units

<b>BTU/H at 105° condensing, 75° water inlet - evaporator temp (°F)</b>	<b>Water flow (GPM) at evaporator temp (°F)</b>
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Capacities rated at 65°F return gas (40°F return gas for capacities in **bold**), 5°F subcooling

### R-134a

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

### R-22

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

## Physical and Electrical Data

## Copeland™ welded water-cooled condensing units

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

# Emerson™ Electronic Unit Controller (EUC)

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



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

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## Application Engineering Bulletins

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

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