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# SystemPro™ Hermetic Water-Cooled Condensing Units for OEM's

## M and F-Line Models

1/4 - 5 HP

Low/Medium/High Temperature  
R-134a, R-404A, R-22



**EMERSON**<sup>™</sup>  
Climate Technologies

# SystemPro™ Water-Cooled Condensing Units

## Capacity Data

High/Med Temp. Model	Appl.	Refrig.	H.P.	Comp. Model	Capacity(Btu/hr) at 75°F Inlet Water - Evaporator Temp (°F)								
					0	+10	+15	+20	+25	+30	+35	+40	+45
M2WH-C026	HT	R-134a	1/4	ARE27C3E	1360	1620	1890	2160	2450	2760	3100	3470	
M2WH-C033	HT	R-134a	1/3	ARE37C3E	1790	2190	2590	3000	3420	3870	4350	4860	
M2WH-C040	HT	R-134a	1/3	ARE41C3E	2130	2530	2950	3390	3870	4380	4920	5520	
M2WH-C049	HT	R-134a	1/2	ART51C1E	2590	3050	3540	4050	4610	5210	5860	6560	
M2WH-C050	HT	R-134a	1/2	ART62C1E	2970	3520	4110	4720	5390	6090	6860	7680	
M2WH-C056	HT	R-134a	1/2	ART64C1E	3220	3830	4470	5140	5860	6630	7460	8350	
FTWH-C074	HT	R-134a	3/4	RR81C2E	4260	4940	5690	6530	7490	8580	9820	11200	
FTWM-C075	MT	R-134a	3/4	RS54C2E	4650	5580	6650	7850					
FPWN-C150	HT	R-134a	1	CS10K6E	5150	6260	7570	8900	10500	12100	14000	16200	
FPWN-C225	HT	R-134a	1-1/4	CS14K6E	7630	9050	10700	12500	14400	16500	18700	21000	
FPWN-C300	HT	R-134a	1-1/2	CS18K6E	9720	11500	13600	15900	18400	21000	23800	26800	
FPWN-C325	HT	R-134a	2	CS20K6E	10300	12600	15000	17800	20900	24400	28200	32400	
M4WH-C025	HT	R-404A	1/4	ASE19C3E	2030	2260	2520	2790	3090	3420	3790	4190	
M4WH-C036	HT	R-404A	1/3	ASE24C3E	2460	2780	3130	3520	3960	4450	5000	5630	
M4WH-C050	HT	R-404A	1/2	ASE32C3E	3570	4020	4530	5130	5830	6640	7590	8680	
FJWM-C056	MT	R-404A	1/2	RS43C2E	3160	4180	4750	5350	6000				
FJWM-C078	MT	R-404A	3/4	RS55C2E	4100	5460	6220	7040	7930				
FJWM-C106	MT	R-404A	1	RS64C2E	5030	6490	7300	8170	9100				
FJWM-C125	MT	R-404A	1-1/4	RS70C1E	5400	7070	8030	9100	10300				
FJWM-C126	MT	R-404A	1-1/4	RS80C2E	6380	8240	9290	10400	11600				
FPWN-C150	MT	R-404A	1-1/2	CS10K6E	7350	10300	11900	13700	15500				
FJWM-C200	MT	R-404A	2	CS12K6E	8720	12000	13900	15800	17900				
FPWN-C225	MT	R-404A	2-1/4	CS14K6E	10800	14500	16500	18600	20900				
FPWN-C300	MT	R-404A	3	CS18K6E	13400	18600	21400	24300	27200				
FPWN-C325	MT	R-404A	3-1/4	CS20K6E	15100	20400	23600	27200	31400				
FJWM-C400	MT	R-404A	4	CS27K6E	20100	27500	31700	36400	41400				
FJWM-C500	MT	R-404A	5	CS33K6E	23900	32000	36500	41300	46300				
MCWH-C027	HT	R-22	1/4	ARE36C3	1980	2260	2570	2910	3300	3730	4200	4730	
MCWH-C036	HT	R-22	1/3	ARE43C3	2280	2600	2950	3330	3750	4200	4700	5230	
MCWH-C049	HT	R-22	1/2	ARE59C3	3220	3660	4130	4640	5200	5780	6400	7060	
MCWH-C056	HT	R-22	1/2	ART69C1	3730	4230	4780	5390	6090	6870	7770	8790	
F3WH-C078	HT	R-22	3/4	RS47C2	4550	5310	6110	6980	7910	8920	10020	11200	
F3WH-C100	HT	R-22	1	RS64C2	5950	6800	7730	8750	9850	11100	12300	13700	
F3WM-C105	MT	R-22	1	RS70C1	6550	7720	8970	10300					
F3WD-C151	HT	R-22	1-1/2	CR18KQ	8120	9760	11600	13500	15700	18000	20400	23000	
F3WD-C201	HT	R-22	2	CR24KQ	10400	12400	14600	16900	19400	22200	25100	28300	
F3WD-C225	HT	R-22	2-1/4	CR28KQ	12000	14200	16600	19300	22100	25200	28600	32100	
F3WD-C301	HT	R-22	3	CR37KQ	17900	20800	24000	27400	31100	34900	39000	43300	
F3WD-C325	HT	R-22	3-1/4	CR41KQ	20200	23300	26600	30200	34200	38600	43400	48800	
F3WD-C401	HT	R-22	4	CR53KQ	26300	30400	34700	39400	44600	50300	56600	63700	
F3WD-C501	HT	R-22	5	CRN5-0500	30100	34700	39700	45100	52900	57100	63900	71200	

Low Temp. Model	Appl.	Refrig.	H.P.	Comp. Model	Capacity(Btu/hr) at 75°F Inlet Water - Evaporator Temp (°F)							
					-30	-25	-20	-15	-10	0	+10	+15
M2WL-C025	LT	R-134a	1/4	AFE10C3E	700	800	930	1080	1430			
M2WL-C033	LT	R-134a	1/3	AFE12C3E	860	990	1150	1330	1750			
M2WL-C040	LT	R-134a	1/3	AFT12C1E	820	1040	1270	1530	2120			
FTWL-C050	LT	R-134a	1/2	RF18C2E	1120	1490	1890	2320	3290			
M4WL-C025	LT	R-404A	1/4	AFB09C3E	580	680	780	900	1180			
M4WL-C033	LT	R-404A	1/3	AFE11C3E	770	960	1160	1370	1830			
M4WL-C040	LT	R-404A	1/2	AFE13C3E	1180	1430	1690	1970	2590			
M4WL-C051	LT	R-404A	1/2	AFT18C1E	1250	1530	1850	2200	2990			
M4WL-C067	LT	R-404A	1/2	AFT26C1E	2160	2520	2940	3420	4590			
FJWL-C075	LT	R-404A	3/4	RS64C2E	2090	2614	3160	3750	5020			
FJWL-C102	LT	R-404A	1	RF42C1E	2910	3490	4110	4790	5530	7240		
FJWL-C103	LT	R-404A	1	CF04K6E	2170	2940	3730	4590	5550	7930		
FJWL-C200	LT	R-404A	2	CF06K6E	3940	5020	6250	7620	9090	12300		
FJWL-C301	LT	R-404A	3	CF09K6E	5810	7360	9110	11000	13200	17800		
FJWL-C390	LT	R-404A	4	CF12K6E	7880	9940	12100	14400	16800	22100		

Capacities are at 60 Hertz with 5°F Subcooling. Multiply by .83 for 50 Hertz.

Low and medium temperature units are rated at 40°F return gas temperature; High temperature models are rated at 65°F.

# SystemPro™ Water-Cooled Condensing Units

## Water-Flow Data

High/Med Temp. Model	Appl.	Refrig.	H.P.	Comp. Model	Water Flow Rate (Gal/Min) at 75°F Inlet Water - Evaporator Temp (°F)								
					0	+10	+15	+20	+25	+30	+35	+40	+45
M2WH-C026	HT	R-134a	1/4	ARE27C3E	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	
M2WH-C033	HT	R-134a	1/3	ARE37C3E	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	
M2WH-C040	HT	R-134a	1/3	ARE41C3E	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	
M2WH-C049	HT	R-134a	1/2	ART51C1E	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	
M2WH-C050	HT	R-134a	1/2	ART62C1E	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.0	
M2WH-C056	HT	R-134a	1/2	ART64C1E	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	
FTWH-C074	HT	R-134a	3/4	RR81C2E	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	
FTWM-C075	MT	R-134a	3/4	RS54C2E	0.8	0.9	1.0	1.2					
FPWN-C150	HT	R-134a	1	CS10K6E	0.8	1.0	1.1	1.2	1.4	1.6	1.8	2.0	
FPWN-C225	HT	R-134a	1-1/4	CS14K6E	1.1	1.2	1.4	1.6	1.9	2.1	2.3	2.6	
FPWN-C300	HT	R-134a	1-1/2	CS18K6E	1.4	1.6	1.8	2.1	2.3	2.6	2.9	3.2	
FPWN-C325	HT	R-134a	2	CS20K6E	1.4	1.6	1.9	2.2	2.6	3.0	3.4	3.8	
M4WH-C025	HT	R-404A	1/4	ASE19C3E	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	
M4WH-C036	HT	R-404A	1/3	ASE24C3E	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	
M4WH-C050	HT	R-404A	1/2	ASE32C3E	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	
FJWM-C056	MT	R-404A	1/2	RS43C2E	0.6	0.7	0.8	0.8	0.9				
FJWM-C078	MT	R-404A	3/4	RS55C2E	0.7	0.9	1.0	1.1	1.2				
FJWM-C106	MT	R-404A	1	RS64C2E	0.9	1.0	1.1	1.2	1.3				
FJWM-C125	MT	R-404A	1-1/4	RS70C1E	0.9	1.1	1.2	1.3	1.4				
FJWM-C126	MT	R-404A	1-1/4	RS80C2E	1.1	1.3	1.4	1.5	1.7				
FPWN-C150	MT	R-404A	1-1/2	CS10K6E	1.1	1.5	1.7	1.9	2.1				
FJWM-C200	MT	R-404A	2	CS12K6E	1.3	1.7	1.9	2.1	2.4				
FPWN-C225	MT	R-404A	2-1/4	CS14K6E	1.6	2.1	2.3	2.5	2.8				
FPWN-C300	MT	R-404A	3	CS18K6E	2.0	2.6	2.9	3.3	3.6				
FPWN-C325	MT	R-404A	3-1/4	CS20K6E	2.0	2.6	3.0	3.4	3.9				
FJWM-C400	MT	R-404A	4	CS27K6E	3.0	3.9	4.4	4.9	5.5				
FJWM-C500	MT	R-404A	5	CS33K6E	3.6	4.6	5.1	5.6	6.2				
MCWH-C027	HT	R-22	1/4	ARE36C3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6	
MCWH-C036	HT	R-22	1/3	ARE43C3	0.4	0.4	0.5	0.5	0.5	0.6	0.7	0.7	
MCWH-C049	HT	R-22	1/2	ARE59C3	0.5	0.6	0.6	0.7	0.7	0.8	0.9	0.9	
MCWH-C056	HT	R-22	1/2	ART69C1	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.1	
F3WH-C078	HT	R-22	3/4	RS47C2	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	
F3WH-C100	HT	R-22	1	RS64C2	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.9	
F3WM-C105	MT	R-22	1	RS70C1	1.0	1.1	1.3	1.4					
F3WD-C151	HT	R-22	1-1/2	CR18KQ	1.2	1.4	1.6	1.8	2.0	2.3	2.5	2.8	
F3WD-C201	HT	R-22	2	CR24KQ	1.6	1.8	2.0	2.3	2.6	2.9	3.2	3.5	
F3WD-C225	HT	R-22	2-1/4	CR28KQ	1.8	2.0	2.3	2.6	2.9	3.3	3.6	4.0	
F3WD-C301	HT	R-22	3	CR37KQ	2.5	2.9	3.2	3.6	4.0	4.4	4.9	5.3	
F3WD-C325	HT	R-22	3-1/4	CR41KQ	2.8	3.2	3.6	4.0	4.4	4.9	5.4	6.0	
F3WD-C401	HT	R-22	4	CR53KQ	3.7	4.2	4.7	5.2	5.8	6.4	7.1	7.8	
F3WD-C501	HT	R-22	5	CRN5-0500	4.3	4.9	5.4	6.0	6.7	7.3	8.0	8.8	

Low Temp. Model	Appl.	Refrig.	H.P.	Comp. Model	Water Flow Rate (Gal/Min) at 75°F Inlet Water - Evaporator Temp (°F)							
					-30	-25	-20	-15	-10	0	+10	+15
M2WL-C025	LT	R-134a	1/4	AFE10C3E	0.1	0.2	0.2	0.2	0.3			
M2WL-C033	LT	R-134a	1/3	AFE12C3E	0.2	0.2	0.2	0.2	0.3			
M2WL-C040	LT	R-134a	1/3	AFT12C1E	0.2	0.2	0.3	0.3	0.4			
FTWL-C050	LT	R-134a	1/2	RF18C2E	0.3	0.3	0.4	0.4	0.6			
M4WL-C025	LT	R-404A	1/4	AFB09C3E	0.1	0.2	0.2	0.2	0.2			
M4WL-C033	LT	R-404A	1/3	AFE11C3E	0.2	0.3	0.3	0.4	0.4			
M4WL-C040	LT	R-404A	1/2	AFE13C3E	0.2	0.3	0.3	0.4	0.4			
M4WL-C051	LT	R-404A	1/2	AFT18C1E	0.3	0.3	0.4	0.4	0.5			
M4WL-C067	LT	R-404A	1/2	AFT26C1E	0.4	0.5	0.6	0.6	0.8			
FJWL-C075	LT	R-404A	3/4	RS64C2E	0.5	0.6	0.6	0.7	0.9			
FJWL-C102	LT	R-404A	1	RF42C1E	0.6	0.7	0.8	0.9	1.0	1.2		
FJWL-C103	LT	R-404A	1	CF04K6E	0.5	0.6	0.7	0.8	0.9	1.2		
FJWL-C200	LT	R-404A	2	CF06K6E	0.8	0.9	1.1	1.3	1.5	1.9		
FJWL-C301	LT	R-404A	3	CF09K6E	1.1	1.3	1.6	1.8	2.1	2.7		
FJWL-C390	LT	R-404A	4	CF12K6E	1.2	1.4	1.7	2.0	2.3	3.0		

Flow Rates are at 60 Hertz with 5°F Subcooling.

# SystemPro™ Water-Cooled Condensing Units

## Pressure Drop Data

High/Med Temp. Model	Appl.	Refrig.	H.P.	Comp. Model	Pressure Drop (PSI) at 75°F Inlet Water - Evaporator Temp (°F)								
					0	+10	+15	+20	+25	+30	+35	+40	+45
M2WH-C026	HT	R-134a	1/4	ARE27C3E	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
M2WH-C033	HT	R-134a	1/3	ARE37C3E	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
M2WH-C040	HT	R-134a	1/3	ARE41C3E	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4
M2WH-C049	HT	R-134a	1/2	ART51C1E	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
M2WH-C050	HT	R-134a	1/2	ART62C1E	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5
M2WH-C056	HT	R-134a	1/2	ART64C1E	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.6
FTWH-C074	HT	R-134a	3/4	RR81C2E	0.4	0.4	0.5	0.6	0.6	0.7	0.8	1.0	1.2
FTWM-C075	MT	R-134a	3/4	RS54C2E	0.4	0.5	0.6	0.8					
FPWN-C150	HT	R-134a	1	CS10K6E	0.2	0.4	0.4	0.5	0.6	0.6	0.7	1.0	
FPWN-C225	HT	R-134a	1-1/4	CS14K6E	0.4	0.5	0.6	0.8	0.9	1.1	1.3	1.5	
FPWN-C300	HT	R-134a	1-1/2	CS18K6E	0.6	0.7	0.9	1.1	1.3	1.5	1.8	2.1	
FPWN-C325	HT	R-134a	2	CS20K6E	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	
M4WH-C025	HT	R-404A	1/4	ASE19C3E	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	
M4WH-C036	HT	R-404A	1/3	ASE24C3E	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	
M4WH-C050	HT	R-404A	1/2	ASE32C3E	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.6	
FJWM-C056	MT	R-404A	1/2	RS43C2E	0.3	0.4	0.4	0.4	0.5				
FJWM-C078	MT	R-404A	3/4	RS55C2E	0.4	0.4	0.5	0.5	0.6				
FJWM-C106	MT	R-404A	1	RS64C2E	0.5	0.7	0.8	0.9	1.0				
FJWM-C125	MT	R-404A	1-1/4	RS70C1E	0.5	0.7	0.8	1.0	1.1				
FJWM-C126	MT	R-404A	1-1/4	RS80C2E	0.5	0.7	0.8	1.0	1.1				
FPWN-C150	MT	R-404A	1-1/2	CS10K6E	0.5	0.7	0.8	0.9	1.1				
FJWM-C200	MT	R-404A	2	CS12K6E	0.5	0.7	0.8	0.9	1.0				
FPWN-C225	MT	R-404A	2-1/4	CS14K6E	0.7	1.1	1.2	1.5	1.7				
FPWN-C300	MT	R-404A	3	CS18K6E	1.0	1.5	1.8	2.1	2.5				
FPWN-C325	MT	R-404A	3-1/4	CS20K6E	0.4	0.6	0.8	0.9	1.1				
FJWM-C400	MT	R-404A	4	CS27K6E	1.7	1.8	1.9	2.1	2.2				
FJWM-C500	MT	R-404A	5	CS33K6E	1.8	2.0	2.1	2.3	2.5				
MCWH-C027	HT	R-22	1/4	ARE36C3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
MCWH-C036	HT	R-22	1/3	ARE43C3	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	
MCWH-C049	HT	R-22	1/2	ARE59C3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	
MCWH-C056	HT	R-22	1/2	ART69C1	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	
F3WH-C078	HT	R-22	3/4	RS47C2	0.4	0.5	0.5	0.6	0.7	0.9	1.0	1.2	
F3WH-C100	HT	R-22	1	RS64C2	0.6	0.7	0.8	0.9	1.1	1.3	1.5	1.7	
F3WM-C105	MT	R-22	1	RS70C1	0.8	1.0	1.1	1.4					
F3WD-C151	HT	R-22	1-1/2	CR18KQ	0.5	0.6	0.7	0.9	1.0	1.2	1.5	1.8	
F3WD-C201	HT	R-22	2	CR24KQ	0.7	0.9	1.0	1.2	1.5	1.7	2.1	2.4	
F3WD-C225	HT	R-22	2-1/4	CR28KQ	0.9	1.0	1.3	1.5	1.8	2.1	2.5	3.0	
F3WD-C301	HT	R-22	3	CR37KQ	0.6	0.7	0.8	1.0	1.2	1.4	1.7	2.0	
F3WD-C325	HT	R-22	3-1/4	CR41KQ	0.7	0.8	1.0	1.2	1.4	1.7	2.0	2.3	
F3WD-C401	HT	R-22	4	CR53KQ	1.8	1.9	2.0	2.1	2.3	2.5	2.8	3.2	
F3WD-C501	HT	R-22	5	CRN5-0500	1.9	2.0	2.2	2.4	2.7	3.0	3.4	3.8	

Low Temp. Model	Appl.	Refrig.	H.P.	Comp. Model	Pressure Drop (PSI) at 75°F Inlet Water - Evaporator Temp (°F)								
					-30	-25	-20	-15	-10	0	+10	+15	+20
M2WL-C025	LT	R-134a	1/4	AFE10C3E	0.3	0.3	0.3	0.3	0.3				
M2WL-C033	LT	R-134a	1/3	AFE12C3E	0.3	0.3	0.3	0.3	0.3				
M2WL-C040	LT	R-134a	1/3	AFT12C1E	0.3	0.3	0.3	0.3	0.3				
FTWL-C050	LT	R-134a	1/2	RF18C2E	0.3	0.3	0.3	0.3	0.3				
M4WL-C025	LT	R-404A	1/4	AFB09C3E	0.3	0.3	0.3	0.3	0.3				
M4WL-C033	LT	R-404A	1/3	AFE11C3E	0.3	0.3	0.3	0.3	0.3				
M4WL-C040	LT	R-404A	1/2	AFE13C3E	0.3	0.3	0.3	0.3	0.3				
M4WL-C051	LT	R-404A	1/2	AFT18C1E	0.3	0.3	0.3	0.3	0.3				
M4WL-C067	LT	R-404A	1/2	AFT26C1E	0.3	0.3	0.3	0.3	0.4				
FJWL-C075	LT	R-404A	3/4	RS64C2E		0.3	0.3	0.3	0.4	0.4			
FJWL-C102	LT	R-404A	1	RF42C1E	0.3	0.4	0.4	0.4	0.5	0.6			
FJWL-C103	LT	R-404A	1	CF04K6E	0.3	0.3	0.4	0.4	0.5	0.6			
FJWL-C200	LT	R-404A	2	CF06K6E	0.4	0.6	0.7	0.9	1.2	1.7			
FJWL-C301	LT	R-404A	3	CF09K6E	0.6	0.7	1.0	1.3	1.7	2.8			
FJWL-C390	LT	R-404A	4	CF12K6E	1.0	1.4	1.9	2.4	3.0	4.6			

Pressure Drops are at 60 Hertz with 5°F Subcooling.

# SystemPro™ Water-Cooled Condensing Units

## Physical Data

High/Med Temp. Model	Refrig.	H.P.	Comp. Model	Dimensions (in.)			Connecting Lines		Water Connection		Pump Down Capacity (lbs.)	Ship Weight (lbs.)
				L	W	H	Suction	Liquid	Inlet	Outlet		
M2WH-C026	R-134a	1/4	ARE27C3E	17.9	13.0	8.7	3/8 S	1/4 S	1/2	1/2	1.9	44
M2WH-C033	R-134a	1/3	ARE37C3E	17.9	13.0	8.7	3/8 S	1/4 S	1/2	1/2	1.9	50
M2WH-C040	R-134a	1/3	ARE41C3E	17.9	13.0	8.7	3/8 S	1/4 S	1/2	1/2	1.9	50
M2WH-C049	R-134a	1/2	ART51C1E	17.9	12.8	9.0	3/8 S	1/4 S	1/2	1/2	2.7	60
M2WH-C050	R-134a	1/2	ART62C1E	17.9	12.8	9.8	3/8 S	1/4 S	1/2	1/2	2.7	60
M2WH-C056	R-134a	1/2	ART64C1E	17.9	12.8	9.8	3/8 S	1/4 S	1/2	1/2	2.7	60
FTWH-C074	R-134a	3/4	RR81C2E	18.0	12.7	11.6	5/8 S	1/4 S	1/2	1/2	3.5	93
FTWM-C075	R-134a	3/4	RS54C2E	24.0	16.1	11.8	5/8 S	3/8 S	1/2	1/2	6.4	106
FPWN-C150	R-134a	1	CS10K6E	24.0	16.2	17.0	7/8 S	3/8 S	1/2	1/2	12.8	132
FPWN-C225	R-134a	1-1/4	CS14K6E	24.0	16.8	15.0	7/8 S	3/8 S	1/2	1/2	11.0	133
FPWN-C300	R-134a	1-1/2	CS18K6E	24.0	16.9	15.0	1 1/8 S	3/8 S	1/2	1/2	12.8	133
FPWN-C325	R-134a	2	CS20K6E	26.2	21.0	15.5	1 1/8 S	3/8 S	1/2	1/2	13.5	164
M4WH-C025	R-404A	1/4	ASE19C3E	17.9	12.8	9.0	3/8 S	1/4 S	1/2	1/2	1.7	44
M4WH-C036	R-404A	1/3	ASE24C3E	17.9	12.8	9.0	3/8 S	1/4 S	1/2	1/2	2.5	51
M4WH-C050	R-404A	1/2	ASE32C3E	17.9	12.8	9.3	3/8 S	1/4 S	1/2	1/2	2.5	51
FJWM-C056	R-404A	1/2	RS43C2E	17.9	13.2	11.2	5/8 S	1/4 S	1/2	1/2	3.0	76
FJWM-C078	R-404A	3/4	RS55C2E	24.0	17.1	12.1	5/8 S	3/8 S	1/2	1/2	5.5	80
FJWM-C106	R-404A	1	RS64C2E	24.0	16.1	11.8	7/8 S	3/8 S	1/2	1/2	5.5	90
FJWM-C125	R-404A	1-1/4	RS70C1E	24.0	18.5	12.8	7/8 S	3/8 S	1/2	1/2	10.4	99
FJWM-C126	R-404A	1-1/4	RS80C2E	24.0	17.3	12.8	7/8 S	3/8 S	1/2	1/2	10.6	119
FPWN-C150	R-404A	1-1/2	CS10K6E	24.0	16.2	17.0	7/8 S	3/8 S	1/2	1/2	11.0	132
FJWM-C200	R-404A	2	CS12K6E	24.0	16.8	15.0	7/8 S	3/8 S	1/2	1/2	11.0	133
FPWN-C225	R-404A	2-1/4	CS14K6E	24.0	16.8	15.0	7/8 S	3/8 S	1/2	1/2	11.0	133
FPWN-C300	R-404A	3	CS18K6E	24.0	16.9	15.0	1 1/8 S	3/8 S	1/2	1/2	11.0	133
FPWN-C325	R-404A	3-1/4	CS20K6E	26.2	21.0	15.5	1 1/8 S	3/8 S	1/2	1/2	11.6	164
FJWM-C400	R-404A	4	CS27K6E	26.2	21.0	21.0	1-1/8 S	1/2 S	1/2	1/2	18.2	188
FJWM-C500	R-404A	5	CS33K6E	25.0	21.1	21.3	1-1/8 S	1/2 S	1/2	1/2	18.2	188
MCWH-C027	R-22	1/4	ARE36C3	17.9	13.0	8.7	3/8 S	1/4 S	1/2	1/2	1.9	49
MCWH-C036	R-22	1/3	ARE43C3	17.9	12.8	8.8	3/8 S	1/4 S	1/2	1/2	2.6	50
MCWH-C049	R-22	1/2	ARE59C3	17.9	12.8	9.3	3/8 S	1/4 S	1/2	1/2	2.6	54
MCWH-C056	R-22	1/2	ART69C1	17.9	13.3	9.8	3/8 S	1/4 S	1/2	1/2	2.6	54
F3WH-C078	R-22	3/4	RS47C2	24.0	17.1	12.1	5/8 S	3/8 S	1/2	1/2	4.2	90
F3WH-C100	R-22	1	RS64C2	24.0	16.1	11.8	5/8 S	3/8 S	1/2	1/2	4.2	96
F3WM-C105	R-22	1	RS70C1	24.0	17.3	12.8	7/8 S	3/8 S	1/2	1/2	13.6	99
F3WD-C151	R-22	1-1/2	CR18KQ	24.0	16.1	15.0	7/8 S	3/8 S	1/2	1/2	14.0	131
F3WD-C201	R-22	2	CR24KQ	24.0	16.1	15.0	7/8 S	3/8 S	1/2	1/2	14.0	135
F3WD-C225	R-22	2-1/4	CR28KQ	24.0	16.1	15.0	7/8 S	3/8 S	1/2	1/2	14.0	150
F3WD-C301	R-22	3	CR37KQ	26.2	21.0	15.4	1-1/8 S	3/8 S	1/2	1/2	14.7	164
F3WD-C325	R-22	3-1/4	CR41KQ	26.2	21.0	15.4	1-1/8 S	3/8 S	1/2	1/2	14.7	185
F3WD-C401	R-22	4	CR53KQ	26.8	21.0	21.1	1-1/8 S	1/2 S	1/2	1/2	21.1	197
F3WD-C501	R-22	5	CRN5-0500	25.8	21.8	21.1	1-1/8 S	1/2 S	1/2	1/2	21.1	197

Low Temp. Model	Refrig.	H.P.	Comp. Model	Dimensions (in.)			Connecting Lines		Water Connection		Pump Down Capacity (lbs.)	Ship Weight (lbs.)
				L	W	H	Suction	Liquid	Inlet	Outlet		
M2WL-C025	R-134a	1/4	AFE10C3E	24.0	16.4	9.5	3/8 S	1/4 S	1/2	1/2	1.9	44
M2WL-C033	R-134a	1/3	AFE12C3E	24.0	16.4	9.5	3/8 S	1/4 S	1/2	1/2	1.9	44
M2WL-C040	R-134a	1/3	AFT12C1E	24.0	16.4	9.5	3/8 S	1/4 S	1/2	1/2	1.9	44
FTWL-C050	R-134a	1/2	RF18C2E	24.0	16.1	12.1	1/2 S	1/4 S	1/2	1/2	2.6	55
M4WL-C025	R-404A	1/4	AFB09C3E	24.0	16.4	9.5	3/8 S	1/4 S	1/2	1/2	1.9	44
M4WL-C033	R-404A	1/3	AFE11C3E	24.0	16.4	9.5	3/8 S	1/4 S	1/2	1/2	1.9	44
M4WL-C040	R-404A	1/2	AFE13C3E	24.0	16.4	9.5	3/8 S	1/4 S	1/2	1/2	2.3	44
M4WL-C051	R-404A	1/2	AFT18C1E	24.0	16.4	9.9	3/8 S	1/4 S	1/2	1/2	2.3	50
M4WL-C067	R-404A	1/2	AFT26C1E	24.0	16.4	9.9	1/4 S	1/4 S	1/2	1/2	2.3	60
FJWL-C075	R-404A	3/4	RS64C2E	24.0	16.1	11.6	5/8 S	3/8 S	1/2	1/2	5.5	100
FJWL-C102	R-404A	1	RF42C1E	24.0	16.1	11.6	5/8 S	3/8 S	1/2	1/2	10.4	125
FJWL-C103	R-404A	1	CF04K6E	24.0	16.1	11.6	5/8 S	3/8 S	1/2	1/2	10.4	132
FJWL-C200	R-404A	2	CF06K6E	24.0	16.4	15.0	7/8 S	3/8 S	1/2	1/2	10.4	140
FJWL-C301	R-404A	3	CF09K6E	25.0	21.0	21.1	7/8 S	1/2 S	1/2	1/2	13.5	144
FJWL-C390	R-404A	4	CF12K6E	25.0	21.0	21.1	7/8 S	1/2 S	1/2	1/2	16.8	150

S - Sweat

## SystemPro™ Water-Cooled Condensing Units Configuration/Electrical Data

High/Med Temp. Model	Comp. Model	60 Hz Units		50 Hz Units		Minimum Circuit Ampacity/Max Fuse Size					
		Voltages	BOM	Voltages	BOM	115-1-60	230-1-60	230-3-60	460-3-60	230-1-50	380-3-50
M2WH-C026	ARE27C3E	IAA	020	IAZ	320	6.3 15				2.6 15	
M2WH-C033	ARE37C3E	IAA IAV	020	IAZ	320	9.0 15	4.3 15			3.6 15	
M2WH-C040	ARE41C3E	IAA IAV	020	IAZ	320	9.3 15	4.9 15			3.8 15	
M2WH-C049	ART51C1E	IAA IAV	020	IAG	320	11.6 20	6.0 15			4.9 15	
M2WH-C050	ART62C1E	IAA IAV	020	IAZ	320	13.8 20	6.7 15			5.6 15	
M2WH-C056	ART64C1E	IAA IAV	020	IAZ	320	13.8 20	7.8 15			6.3 15	
FTWH-C074	RR81C2E	IAA IAV	020	IAZ	320	19.0 30	11.3 20			10.4 15	
FTWM-C075	RS54C2E	IAA IAV	020	IAZ	320	14.8 25	8.5 15			7.5 15	
FPWN-C150	CS10K6E	CFV TFC TFD	020	CFZ TFM	320		13.6 20	9.4 15	4.5 15	12.7 20	4.5 15
FPWN-C225	CS14K6E	CFV TFC TFD	020	CFZ TFM	320		15.5 25	11.4 20	5.9 15	15.6 25	5.9 15
FPWN-C300	CS18K6E	CFV TFC TFD	020	CFZ TFM	320		20.0 35	13.0 20	5.9 15	17.0 35	5.9 15
FPWN-C325	CS20K6E	CFV TFC TFD	020	CFZ TFM	320		23.3 40	14.3 25	6.4 15	19.3 40	6.4 15
M4WH-C025	ASE19C3E	IAA	020	IAZ	320	10.0 15				3.6 15	
M4WH-C036	ASE24C3E	IAA IAV	020	IAZ	320	9.8 15	5.2 15			3.6 15	
M4WH-C050	ASE32C3E	CAA CAV	020	CAZ	320	11.5 20	6.1 15			4.5 15	
FJWM-C056	RS43C2E	IAA IAV	020	IAZ	320	12.6 20	7.1 15			6.6 15	
FJWM-C078	RS55C2E	CAA CAV	020	CAZ	320	16.5 25	7.6 15			7.5 15	
FJWM-C106	RS64C2E	CAV	020	IAZ	320		9.6 15			10.3 15	
FJWM-C125	RS70C1E	CFV TFC	020				8.8 15	5.9 15			
FJWM-C126	RS80C2E	CAV TFC TFD	020	CAZ TFM	320		12.0 20	8.0 15	3.2 15	9.5 15	3.2 15
FPWN-C150	CS10K6E	CFV TFC TFD	020	CFZ TFM	320		13.6 20	9.4 15	4.5 15	12.6 20	4.5 15
FJWM-C200	CS12K6E	CFV TFC	020	CFZ	320		13.6 20	9.4 15		13.6 20	
FPWN-C225	CS14K6E	CFV TFC TFD	020	CFZ TFM	320		15.5 25	11.4 20	5.9 15	15.6 25	5.9 15
FPWN-C300	CS18K6E	CFV TFC TFD	020	CFZ TFM	320		20.0 35	13.0 20	5.9 15	17.0 30	5.9 15
FPWN-C325	CS20K6E	CFV TFC TFD	020	CFZ TFM	320		23.3 40	14.3 25	6.4 15	19.3 30	6.4 15
FJWM-C400	CS27K6E	CFV TFC TFD	020	CFZ	320		29.9 50	19.5 35	9.6 15	29.9 50	
FJWM-C500	CS33K6E	CFV TFC TFD	020	TFM	320		38.4 60	25.9 45	12.4 20		12.4 20
MCWH-C027	ARE36C3	IAA	020			8.4 15					
MCWH-C036	ARE43C3	IAA	020	IAZ	320	8.9 15				3.8 15	
MCWH-C049	ARE59C3	CAA CAV	020	CAZ	320	10.0 15	5.0 15			3.9 15	
MCWH-C056	ART69C1	CAA CAV	020			14.3 25	7.6 15				
F3WH-C078	RS47C2	IAA IAV	020	IAZ	320	17.9 30	8.9 15			7.9 15	
F3WH-C100	RS64C2	CAV	020				9.6 15				
F3WM-C105	RS70C1	CFV TFC TFD	020	CFZ TFM	320		8.8 15	5.9 15	3.3 15	7.5 15	3.3 15
F3WD-C151	CR18KQ	CFV TFC TFD	020	CFZ TFM	320		15.0 20	7.5 15	3.8 15	10.3 15	3.8 15
F3WD-C201	CR24KQ	CFV TFC TFD	020	CFZ TFM	320		16.9 30	9.4 15	4.6 15	13.4 20	4.6 15
F3WD-C225	CR28KQ	CFV TFC TFD	020	CFZ TFM	320		18.8 30	11.0 15	5.5 15	15.0 25	5.5 15
F3WD-C301	CR37KQ	CFV TFC TFD	020	CFZ TFM	320		23.1 40	13.9 20	7.0 15	21.1 35	7.0 15
F3WD-C325	CR41KQ	CFV TFC TFD	020	CFZ TFM	320		24.3 40	16.4 25	7.4 15	25.0 35	7.4 15
F3WD-C401	CR53KQ	CFV TFC TFD	020	TFM	320		41.9 60	25.9 40	10.8 15		10.8 15
F3WD-C501	CRN5-0500	CFV TFC TFD	020	TFM	320		46.4 70	30.3 45	12.0 20		12.0 20

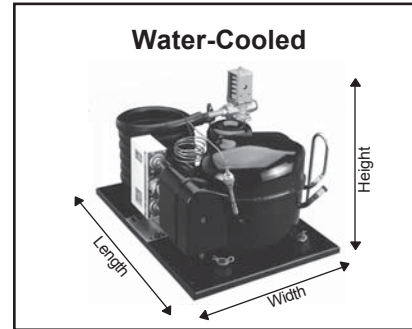
High/Med Temp. Model	Comp. Model	60 Hz Units		50 Hz Units		Minimum Circuit Ampacity/Max Fuse Size					
		Voltages	BOM	Voltages	BOM	115-1-60	230-1-60	230-3-60	460-3-60	230-1-50	380-3-50
M2WL-C025	AFE10C3E	IAA	020	IAZ	320	6.8 15				1.9 15	
M2WL-C033	AFE12C3E	IAA	020	IAZ	320	7.0 15				4.0 15	
M2WL-C040	AFT12C1E	IAA	020	IAZ	320	7.1 15				4.1 15	
FTWL-C050	RF18C2E	IAA IAV	020	IAZ	320	16.7 25	9.4 15			8.1 15	
M4WL-C025	AFB09C3E	IAA	020			6.7 15					
M4WL-C033	AFE11C3E	IAA	020	IAZ	320	8.0 15				3.2 15	
M4WL-C040	AFE13C3E	IAA	020	IAZ	320	7.9 15				3.9 15	
M4WL-C051	AFT18C1E	IAA	020	IAZ	320	10.5 15				4.7 15	
M4WL-C067	AFT26C1E	CFA	020	CFZ	320	10.2 15				4.5 15	
FJWL-C075	RS64C2E	CAA IAV	020	IAZ	320	19.7 30	12.0 20			10.3 15	
FJWL-C102	RF42C1E	CAV	020	CAZ	320		10.5 20			8.3 15	
FJWL-C103	CF04K6E	CFV TFC	020				12.0 20	8.0 15			
FJWL-C200	CF06K6E	CFV TFC TFD	020				14.8 25	9.3 15	5.4 15		
FJWL-C301	CF09K6E	CFV TFC TFD	020				21.4 35	13.3 20	7.6 15		
FJWL-C390	CF12K6E	CFV TFC	020				25.6 45	15.4 25			

# SystemPro™ Water-Cooled Condensing Units

## To place an order determine:

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

Example: M4WH-C025 -IAA -020  
**Model Voltage BOM**  
 1+2+3 = complete model number



## Electric Nomenclature

### Single Phase (voltage-phase-hertz)

115-1-60	208/230-1-60	220/240-1-50	230-1-50	Motor Specifications
CAA/CFA	CAV/CFV	CAZ/CFZ		Capacitor Run - Capacitor Start (High Starting Torque)
IAA	IAV	IAZ	IAG	Induction Run - Capacitor Start (High Starting Torque)

### Three Phase (voltage-phase-hertz)

208/230-3-60	460-3-60	380/420-3-50
TFC	TFD	TFM

## Unit Features

BOM		Suction Connections		Liquid Connections		Electrical Connections		Fan Cycle Control	Fan Guard	UL / UR
60 Hertz	50 Hertz	Suction Valve	Suction Accumulator	Base Valve	Receiver w/Valve	Power Cord	BX Conduit			
020	320	•			•		•		As Required	UL

UL/UR are registered trademarks of Underwriters Laboratories, Inc.® UL/UR and CSA label does not apply at 50 Hertz.

## Control Data\*

Horsepower	Voltage	Bill of Material	Crankcase Heater	Dual Pressure Control	Contactors	115 Volt Control Circuit Transformer
1/4 - 1/2	All	-020	No	Yes	No	No
3/4	115 or 208/230 (1Ph)	-020	No	Yes	No	No
1	115 or 208/230 (1Ph)	-020	No	Yes	No	No
1	208/230 (3Ph)	-020	No	Yes	Yes	No
1-1/4 - 1-1/2	208/230 (1Ph)	-020	Yes	Yes	No	No
1-1/4 - 1-1/2	208/230 (3Ph)	-020	Yes	Yes	Yes	No
2 - 5	208/230 (1Ph)	-020	Yes	Yes	Yes	No
2 - 5	208/230 (3Ph)	-020	Yes	Yes	Yes	No
2 - 5	460 (3Ph)	-020	Yes	Yes	Yes	Yes

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

## Application Engineering Bulletins

4-1273	Factors to Consider in Converting Compressor Rated Capacity to Actual Capacity
4-1292	Medium Temperature R-22 Copelaweld Compressors
4-1295	HFC-134A Refrigerant Guidelines
4-1298	Extended Medium Temperature R-404A/507 Hermetic Compressors and Condensing Units
4-1305	SystemPro™ AF, AR, & AS Refrigeration Hermetic 1/8-1 Horsepower Compressors
4-1306	Application Guidelines for RF Low Temperature Refrigeration Compressors
4-1307	Application Guidelines for CF Refrigeration Compressors and Condensing Units
5-1174	Water Flow Requirements and Water Pressure Drop for Copeland Water-Cooled Condensing Units
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

For more information, visit [www.copeland-corp.com](http://www.copeland-corp.com), login to Online Product Information, and click on Publications Search.

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