

Life is full of hard choices

Choosing a condensing unit
shouldn't be one of them.



Copeland™ hermetic condensing units



Install confidence. It's your reputation.

In the fast paced world of retail establishments, servicing refrigeration equipment can be challenging. Customers are demanding, the work environment is less than optimal, and time is at a premium. Emerson Climate Technologies can help with the Copeland™ Value-Add line of condensing units.

Keep your customers happy

There are numerous refrigeration applications that utilize fractional horsepower sized condensing units. Reach-in cases, food prep tables, and under-counters are just a few examples. Servicing this equipment can be difficult due to limited space. Using a fractional unit with factory installed system protection devices saves on installation time and reduces disruptions to foodservice operations. You win and your customer wins.

Benefits for foodservice operators

- Less disruption to their business
- Less equipment downtime
- Increased equipment reliability
- No additional cost

Benefits for contractors

- Lower installation costs
- Fewer job site problems
- Lower warranty expense
- Reduced call backs
- Greater billing efficiency

Factory installed system protection

- Provides higher system reliability
- Provides a solution to working in restricted spaces

These fractional horsepower models offer factory installed filter driers and moisture indicators so there is no need to purchase these components separately.

To avoid installation issues be sure to select the appropriate condensing unit based on your application requirements and replacement needs.

How to choose the right condensing unit in 5 easy steps:

- 1 What is the application? (MT or LT)
- 2 What refrigerant is currently being used in the application?
- 3 What is the applied voltage?
- 4 What is the capacity/BTUs needed for the application?
- 5 What is the physical size?



Make your business more productive

A labor cost savings solution...a fractional horsepower condensing unit with factory installed components significantly reduces on-site tube prepping, brazing, supplies and materials. In addition, it diminishes the need for frequent leak inspections since all filter drier and moisture indicator braze joints have been factory tested. Fewer job site problems and fewer call backs. Units with pressure controls have the new Emerson™ Electronic Unit Control (EUC) that allows pressure settings to be set and verified in less than a minute.

Make your business more profitable

Fractional units reduce installation costs, reduce call backs and cut warranty expense. This translates into increased billing efficiency and a better bottom line. So the next time you replace a fractional horsepower condensing unit ask for one from Emerson Climate Technologies.

Selection guide

Medium/High Temperature														
1	H.P.	Model	Electrical	Std. BOM	Alternate BOM	4 Refrigerant			L	W	H	Liquid	Suction	Compressor
						BTUH @ 90°F Ambient /+25°F Evap	R-404A	R-407C						
2	1/5	M6JM-0021	IAA	177, 179	078	1950	1760	1820	16.58	12.7	11.7	1/4	5/16	ASE12C4E
		M6JM-H023	IAA	177	078	2180	n/a	2070	14.11	11.5	11.4	1/4	3/8	ASE14C4E
	1/4	M6JM-H028	IAA / IAV	177, 179	078	2730	2810	2610	14.11	11.5	11.4	1/4	3/8	ASE20C4E
		M6JM-0032	IAA	177	272	3080	n/a	2990	16.51	12.7	11.7	1/4	3/8	ASE24C5E
	1/3	M6JM-H035	IAA / IAV	177, 179	272	3390	n/a	3350	14.39	11.6	11.4	1/4	3/8	ASE28C5E
		M6ZP-0053	IAA / IAV	177	272	4980	4360	4590	17.36	13.5	11.8	3/8	1/2	RST45C1E
	1/2+	M6GP-H064	CAA / CAV	177	272 (CAA) / 078 (CAV)	5490	5040	5290	18.86	14.3	11.8	3/8	1/2	RST45C1E
	3/4	M6KP-0075	CFA / CAV	072	177	6660	5990	6430	24	16.4	13.1	3/8	3/8	RST55C1E
		M6KP-0092	CAV	072	177	7750	7600	7860	24	16.4	13.1	3/8	1/2	RST64C1E
	1	M6KP-0102	CFA / CAV	072	177	9150	8660	8970	24	18.3	16.2	3/8	3/8	RST64C1E
		M6KP-0127	CFV	072	177	11000	9950	10500	24	18.5	16.2	3/8	1/2	RST80C1E
	1 1/2	M6KP-0142	CFV	072	177	11900	11100	11400	24	18.5	16.2	3/8	1/2	RST97C1E
1							R-134a	R-450	R-513					
	1/8	M7JH-0012	IAA	177, 179	078	1150	1010	1200	14.1	11.5	11.4	1/4	5/16	ARE13C4E
	1/5	M7JH-0018	IAA	177, 179	078	1820	1610	1890	14.13	12.1	11.4	1/4	3/8	ARE25C4E
	1/4	M7JH-H024	IAA	177, 179	078	2290	2020	2400	14.1	11.5	11.4	1/4	3/8	ARE29C4E
	1/3	M7JH-H029	IAA / IAV	177, 179	272	2640	2320	2810	14.39	11.6	11.4	1/4	3/8	ARE35C5E
	1/2	M7ZH-H046	IAA / IAV	177	272	4210	3800	4440	17.45	13.5	11.7	3/8	1/2	RRT62C1E
	1/2+	M7GH-H057	CFA	177	272	5290	4740	5600	18.86	14.4	11.8	3/8	1/2	RRT64C1E
	3/4	M7KH-0075	CFA / CFV	072	177	6720	6010	6850	24	16.3	13.1	1/4	5/8	RRT81C1E
	1	M7KH-0096	CFA / CFV	072	177	8440	7630	8570	24	18.5	16.2	3/8	1/2	RRT10K1E

Low Temperature														
1	H.P.	Model	Electrical	Std. BOM	Alternate BOM	4 Refrigerant			L	W	H	Liquid	Suction	Compressor
						BTUH @ 90°F Ambient /-10°F Evap	R-404A	R-407C						
2	1/5	M6JL-0021	IAA	177, 179	078	872	n/a	891	14.1	11.5	11.4	1/4	5/16	AFE08C4E
	1/4	M6JL-0026	IAA	177, 179	078	1130	n/a	1020	14.1	11.5	11.4	1/4	5/16	AFE11C4E
	1/3	M6ZL-0031	IAA	177, 179	078	1270	n/a	1090	16.58	12.7	11.7	1/4	5/16	AFE11C4E
	1/2	M6JL-H048	IAA / IAV	177, 179	272 (IAA) / 078 (IAV)	1940	n/a	1710	14.39	11.6	11.4	1/4	3/8	AFE17C4E
	3/4	M6ZL-H078	CFA / IAV	177	272	3130	n/a	2550	17.36	13.7	11.7	3/8	3/8	RFT26C1E
	1	M6KL-0101	CAA / CAV	072	177	4060	n/a	3570	24	16.4	13.1	1/2	3/8	RFT32C1E
	1 1/4	M6KL-0123	CFA / CFV	072	272	4900	n/a	4250	24	16.4	13.1	3/8	3/8	RFT42C1E
	1							R-134a	R-450	R-513				
1/5		M7JP-0020	IAA	177, 179	078	825	709	874	14.37	12.1	11.4	1/4	5/16	AFF07C1E
1/4		M7JP-0029	IAA / IA3	177, 179	078	1230	1080	1310	14.37	12.1	11.4	1/4	5/16	AFF10C1E
1/3		M7JP-0031	IAA / IA3	177, 179	078	1400	1250	1500	14.37	12.1	11.4	1/4	5/16	AFF13C1E
1/2		M7GP-H066	CFA	177	272	2650	2410	3100	18.82	14.3	12.3	3/8	1/2	RFT18C1E

Electric nomenclature

voltage-phase-hertz

Motor Run Type	115-1-60	208/230-1-60
Capacitor Run (CAA/CFA, CAV/CFV)	CAA/CFA	CAV/CFV
Induction Run (IAA/IAV)	IAA	IAV

Cross reference

Nominal HP	Tecumseh		Danfoss		Embraco		Old Copeland			New Copeland		
	Model Number	Btu/h	Model Number	Btu/h	Model Number	Btu/h	Model Number	Compressor	Btu/h	Model Number	Compressor	Btu/h
LT R-404A -10°F Evap/90°F Ambient												
1/4	AE2410Z-AA1AGB	890					M4TL-H025-IAA*18	AFE08C4E-IAA	860	M6TL-0022-IAA-118	AFE08C4E-IAA	927
	AE2410Z-AA1ASC	910					M4FL-H025-IAA*	AFE08C4E-IAA	876	M6JL-H023-IAA-177	AFE08C4E-IAA	936
							M4FL-0025-IAA-072	AFB09C3E	872	M6JL-0021-IAA-078	AFE08C4E-IAA	872
1/3	AE2415Z-AA1ASC	1380	UCHC0025RWB000B	1350			M4FL-0033-IAA-103	AFE11C3E-IAA	1390	M6ZM-0032-IAA-177	ASE24C5E-IAA	1340
	AE2415Z-AA1ASS	1380	UCHC0025R*B	1350			M4FL-0033-IAA-111	AFE11C3E-IAA	1390	M6ZM-0032-IAA-179	ASE24C5E-IAA	1340
1/2							M4FL-0040-IAA-103	AFE13C3E	2040	M6JL-H048-IAA-177	AFE17C4E-IAA	1940
							M4FL-0040-IAV-103	AFE13C3E	2040	M6JL-H048-IAV-177	AFE17C4E-IAV	1940
	AJA2423ZAADG	2254	LCHC0050RWB000B	2500	UT2155GK-	2330	M4FL-H051-IAA-103	AFE17C4E-IAA	2150	M6JL-H052-IAA-177	AFE20C5E-IAA	2240
	AJA2423ZAADC	2254										
3/4	AKA2430ZAADS	3003	LCHC0060UWC000B	3050			M4FL-0067-CFA-111	AFT26C1E-CFA	3290	M6ZL-H078-CFA-179	RFT26C1E-CFA	3100
	AKA2430ZAADC	3003	LCHC0060UWC000B	3050			M4FL-0067-CFA-103	AFT26C1E-CFA	3290	M6ZL-H078-CFA-177	RFT26C1E-CFA	3100
							M4FL-0067-CFV-103	AFT26C1E-CFV	3290	M6GP-H074-CAV-177	RST55C1E-CAV	3070
1	AJB2439ZAADG	3898	LCHC0075UWC000B	3900			M4FF-0080-CFA-212	RST64C1E-CFA	3880	M6KP-0092-CFA-177	RST64C1E-CFA	4050
	AWA2448ZDXC	4838	LCHC0100UWD000N	5350						M6KL-0123-CFV-072	RFT42C1E-PFV	4900
1 1/2	AWA2464ZDXC	6450								FFAP-017Z-CFV-072	ZS11KAE-PFV	6680
2	AWA2479ZDXC	7871								FFAP-020Z-CFV-072	ZS13KAE-PFV	7650
	AVA2510ZXNXC	9999								FFAP-030Z-CFV-072	ZS19KAE-PFV	10400
MT R-404A 25°F Evap/90°F Ambient												
1/5	AE4425Z-AA1AGK	1500					M4TM-H020-IAA*08	ASE12C4E-IAA	1580	M6TM-0020-IAA-108	ASE12C4E-IAA	1830
	AE4425Z-AA1ASC	1950								M6ZM-0021-IAA-177	ASE12C4E-IAA	1950
1/4	AE4430Z-AA1AXC	2170	UCGC0025R*B	2150			M4FH-0025-IAA-103	ASE19C3E-IAA	2430	M6JM-H023-IAA-177	ASE14C4E-IAA	2180
	AE4430Z-AA1AGC	2170					M4TM-H020-IAA*18	ASE12C4E-IAA	1580	M6TM-0020-IAA-118	ASE12C4E-IAA	2180
	AE4430Z-AA1AGK	2170					M4TM-H020-IAA*08	ASE12C4E-IAA	1580	M6TM-0020-IAA-108	ASE12C4E-IAA	2180
	AE4440Z-AA1ASC	2590	UCHC0025RWB000B	2650	UNE6187Z	2576				M6JM-H028-IAA-177	ASE20C4E-IAA	2730
1/3	AKA9430ZAADG	3401	UCHC0033RWB000B	3250	UF112HBX	3263	M4FH-A036-IAA-103	ASE24C3E-IAA	3370	M6JM-H035-IAA-177	ASE28C5E-IAA	3390
1/2							M4FH-0050-CAA-103	ASE32C3E-CAA	4380	M6QM-H049-IAA-272	ASE39C5E-IAA	4250
							M4FH-0050-CAV-103	ASE32C3E-CAV	4380	M6QM-H049-CAV-078	ASE39C5E-CAV	4250
	AKA9442ZNADG	5162					M4FF-0050-IAV-212	RST45C1E-IAV	4660	M6ZP-0053-IAV-177	RST45C1E-IAV	4980
	AKA9442ZAADG	5162					M4FF-0050-IAA-212	RST45C1E-IAA	4660	M6ZP-0053-IAA-177	RST45C1E-IAA	4980
3/4	AKA9457ZNADG	6367								M6GP-H074-CAV-177	RST55C1E-CAV	6550
	AKA9463ZAADG	6969	UCHC0050RWB000B	7500			M4FF-0075-CAA	RST55C1E-CAA	6660	M6KP-0075-CFA-177	RST55C1E-CFA	6660
	AKA9463ZNADG	6969	UCHC0075U*N	7500			M4FF-0075-CAV	RST55C1E-CAV	6660	M6KP-0075-CAV-177	RST55C1E-CAV	6660
1	AJA7480ZNADG	8448	HCHC0100U*N	9000						M6KP-0095-CFV-177	RST70C1E-PFV	8310
	AJA7480ZNADC	8448										
	AJA7494ZDXC	10279								M6RP-H126-CFV-072	RST97C1E-PFV	10500
	AWA7512ZDXC	13142								FFAP-017Z-CFV-072	ZS11KAE-PFV	12100
2	AWA7512ZXTXC	13142	HCZC0150UWF300Q	12270						FFAP-017Z-TFC-072	ZS11KAE-TF5	12100
	AWA9518ZXTXM									FFAP-030Z-TFC-072	ZS19KAE-TF5	19300
3	AVA7523ZXTXC	24781								FFAP-032Z-TFC-072	ZS21KAE-TF5	24800
LT R-134a -10°F Evap/90°F Ambient												
1/4	AE2410Y-AA1ASC	910			UF10HBX	960				M7QP-H022-IAA-078	AFF07C1E-IAA	874
1/3	AE2413Y-AA1BSC	1310			UF112HBX	1362				M7JP-H032-IAA-078	AFF10C1E-IAA	1330
		2321					M2FF-0056-CFA-212	RFT18C1E-PFA	2580	M7GP-H066-CFA-177	RFT18C1E-PFA	2650
1/2	AJA2423YAADG									M7KH-0060-CFA-177	RRT64C1E-CFA	2300

Cross reference (cont.)

MT R-134a 25°F Evap/90°F Ambient												
1/4							M2FH-0026-IAA-103	ARE27C3E-IAA	2080	M7QH-H021-IAA-078	ARE25C4E-IAA	1980
1/3							M2FH-A033-IAA-103	ARE37C3E-IAA	2620	M7JH-H029-IAA-177	ARE35C5E-IAA	2640
1/2							M2FH-0049-IAA-103	ART51C1E-IAA	3600	M7ZH-0041-IAA-177	ARE48C5E-IAA	3750
	AKA7437YAADG	4080	UCGC0050R*	4250			M2FH-A050-IAA-103	RRT62C1E-IAA	4060	M7ZH-H046-IAA-177	RRT62C1E-IAA	4210
	AJA7455YAADG	6116	HCGC0075UWC000B	7150			M2FH-0056-IAA-103	ART64C1E-IAA	4630	M7KH-0064-CAA-177	RRT73C1E-CAA	5890
	AJA7455YNADG	6116					M2FH-0056-IAV-103	ART64C1E-IAV	4630	M7KH-0064-CAV-177	RRT73C1E-CAV	5890
	AJA7455YNADC	6116								M7KH-0064-CAV-177	RRT73C1E-CAV	5890
HT R-134a 45°F Evap/90°F Ambient												
1/5	AE3425Y-AA1ASK	2696	UCGC0020RWA000B	2700	UM65HHR	2600	M2FH-0026-IAA	ARE27C3E-IAA	2940	M7JH-0018-IAA-179	ARE25C4E-IAA	2690
1/4	AE4430Y-AA1ASB	3080	UCGC0025RWB000B	3100			M2FH-0025-IAA	ARE27C3E-IAA	2850	M7JH-H020-IAA-177	ARE25C4E-IAA	2960
	AE4430Y-AA1ASC	3080	UCGC0025RWB000B	3100			M2FH-0025-IAA	ARE27C3E-IAA	2850	M7JH-H020-IAA-177	ARE25C4E-IAA	2960
	AE4430Y-AA1ASK	3080	UCGC0025R*B	3100			M2FH-0025-IAA	ARE27C3E-IAA	2850	M7JH-H020-IAA-179	ARE25C4E-IAA	2960
	AE4430Y-AA1ASS	3080	UCGC0025R*B	3100			M2FH-0025-IAA	ARE27C3E-IAA	2850	M7JH-H020-IAA-179	ARE25C4E-IAA	2960
	AE4430Y-AA1AGB	3080								M7TH-0020-IAA-118	ARE25C4E-IAA	2900
	AE4440Y-AA1ASB	3650	HCGC0033RWB000B	4450	UNE6187Z	4371		M2FH-A033-IAA	ARE37C3E-IAA	3820	M7JH-H024-IAA-177	ARE29C4E-IAA
1/3	AE4440Y-AA1ASC	3650	HCGC0033RWB000B	4450	UNE6187Z	4371	M2FH-A033-IAA	ARE37C3E-IAA	3820	M7JH-H024-IAA-177	ARE29C4E-IAA	3390
	AE4440Y-AA1ASK	3650	HCGC0033R*B	4450	UNE6187Z	4371	M2FH-A033-IAA	ARE37C3E-IAA	3820	M7JH-H024-IAA-179	ARE29C4E-IAA	3390
	AE4440Y-AA1ASS	3650	HCGC0033R*B	4450	UNE6187Z	4371	M2FH-A033-IAA	ARE37C3E-IAA	3820	M7JH-H024-IAA-179	ARE29C4E-IAA	3390
	AE4440Y-AA1AGK	3650								M7TH-0028-IAA-108	ARE35C5E-IAA	3830
	AE4440Y-AA1AGB	3650								M7TH-0028-IAA-118	ARE35C5E-IAA	3830
	AE4440Y-AA1AGC	3650								M7TH-0028-IAA-118	ARE35C5E-IAA	3830
	AE4450Y-AA1ADC	5005			UNE6210Z	4989		M2CH-H049-CAA	ARE51C4E-CAA	5260	M7ZH-0045-IAA-177	ARE54C5E-IAA
1/2	AE4450Y-AA1ADS	5005			UNE6210Z	4989	M2CH-H049-CAA	ARE51C4E-CAA	5260	M7ZH-0045-IAA-179	ARE54C5E-IAA	5760
	AKA4457YAADG	5665	UCGC0050R*B	6150	UT6213ZA	5892	M2FH-H048-CAA	ARE51C4E-CAA	5440	M7ZH-0045-IAA-177	ARE54C5E-IAA	5760
	AKA4457YAADC	5665	UCGC0050R*B	6150	UT6213ZA	5892	M2FH-H048-CAA	ARE51C4E-CAA	5440	M7ZH-0045-IAA-177	ARE54C5E-IAA	5760
	AKA4457YAADK	5665	UCGC0050R*B	6150	UT6213ZA	5892	M2FH-H048-CAA	ARE51C4E-CAA	5440	M7ZH-0045-IAA-179	ARE54C5E-IAA	5760
	AKA4457YAADS	5665	UCGC0050R*B	6150	UT6213ZA	5892	M2FH-H048-CAA	ARE51C4E-CAA	5440	M7ZH-0045-IAA-179	ARE54C5E-IAA	5760
	AKA4457YNADG	5665								M7ZH-0045-IAV-177	ARE54C5E-IAV	5760
	AKA4472YAADG	7187	HCGC0055UWC000B	7350	UT6215ZC	6704				M7ZH-H055-CFA-177	RRT64C1E-CFA	7050
	3/4	AJA4480YAADG	7550	HCGC0055UWC000B	7350	UT6217E	7683				M7KH-0060-CFA-177	RRT64C1E-CFA
AJA4480YNADG		7550	HCGC0055UWC000B	7350						M7KH-0060-CAV-177	RRT64C1E-CAV	7690
1	AJA4512YDXC	12200	HCGC0075UWC000B	11200						FFAP-017Z-CFV-072	ZS11KAE-PFV	13100

"The recommended cross applies at the conditions listed. Review the operating envelope of the recommended unit to confirm operation at the specific required conditions.

* Specific configuration not identified. Multiple options may be available.

‡ Physical dimension differences. Check available space."

Unit features

BOM	Receiver W/ Valve	Suction Valve	Fan Guard	End Covers	Power Cord	Filter Drier	Moisture Indicator	EUC	Conduit	UL Listed	UL Recognized
177	X	X	X		X	X	X				X
179		X	X		X		X				X
020	X	X	X	X				X	X	X	
028	X	X	X	X					X	X	
072	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
272	X	X	X	X		X	X		X		X

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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