

# Copeland® Brand Condensing Units

Install confidence.  
It's your reputation.



## Replace or repair? It's a tough choice.

Especially when you're facing failed equipment in a commercial kitchen or other food service environment. The quick-fix: replace the compressor. But is that the right fix? Will it give you – and your customer – the best long-term performance and value?

Compressor failure is all too often just a symptom of a larger system problem. The tough environments of today's kitchens often choke off airflow from the equipment, reducing efficiency and accelerating premature failure. Combine that harsh environment with lack of preventative maintenance and you'll soon follow that compressor replacement with service calls for new controls, new wiring, new fan motors, or cap tube and condensing coil maintenance.

**There's another option to consider: replace the entire condensing unit right from the start.**

### Most system failures are caused by contamination.

Either surface contamination that covers coils and components, or internal contamination from today's new oils and refrigerants which leave acid and moisture in the system. Installing a new condensing unit helps assure the system is contaminant-free – and ready to deliver peak performance for years to come.

### It's a cost-effective solution.

Especially when dealing with older systems that are likely to break down once, or likely to break down again under the stress and strain of demanding food service applications. Plus, it gives you the chance to deliver even more long-term value to your customers.

### Tough environments demand tough equipment.

The kind of equipment only Emerson Climate Technologies can provide, products built with durability and reliability for the harshest conditions. Products you've come to know and trust like Copeland® brand compressors and EK Filter Driers.

Repair that worn out compressor? Or replace it with a complete Copeland® brand condensing unit from Emerson Climate Technologies?

It's your reputation. Ask your wholesaler or visit [EmersonClimateContractor.com](http://EmersonClimateContractor.com) for more information.

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## How to use the Replacement Guide

Use the guide below to select the appropriate condensing unit, based on the compressor you currently have. To avoid installation issues, verify the available space and confirm with the dimensions listed.

	Copeland® Brand Compressor	Tecumseh Compressor	Copeland® Brand Condensing Unit	Volt	BOM	HP	Btu/hr	Dimensions (in)			Line Size (in)		
								L	W	H	Liq	Suc	
HIGH Temperature (+45°F Evap, 90°F Ambient) Capacities are at 60 Hz with 5° F subcooling	R-12	ARB13C3	AEA3414AXA	MBFS-0017	SAA	-106	1/6	1,580	13.8	11.1	9.7	1/4 F	3/8 F
		ARB17C3	AEA3417AXA	MBFS-0020	SAA	-106	1/5	1,800	13.8	11.1	9.7	1/4 F	3/8 F
		ARE25C3	AEA3425AXA	MBFS-0024	SAA	-106	1/4	2,440	13.8	11.8	9.7	1/4 F	3/8 F
		ARE27C3	AEA4430AXA	MBFH-A026	IAA	-109	1/4	2,860	13.8	11.8	9.7	1/4 F	3/8 F
		ARE37C3	AEA4440AXA	MBFS-0033	IAA	-109	1/3	3,600	13.8	11.8	9.7	1/4 F	3/8 F
		ART51C1	AEA4448AXA	MBFH-0049	IAA	-201	1/2	4,870	16.2	13.1	11.8	1/4 F	3/8 F
	ART62C1	AJA4461AXA	MBFH-0050	IAA	-109	1/2	5,910	17.9	13.1	11.8	1/4 F	3/8 F	
	R-22	ARB21C3	AEA9415EXA	MMFH-0022	IAA	-106	1/5	2,360	13.8	11.4	9.7	1/4 F	3/8 F
		ARE36C3	AEA9422EXA	MCFH-0027	IAA	-201	1/4	3,660	13.8	11.3	9.7	1/4 F	3/8 F
		ARE43C3	AEA9422EXA	MCFH-0036	IAA	-201	1/3	4,500	16.2	12.7	11.7	1/4 F	3/8 F
		ARE59C3	AKA9428EXA	MCFH-0049	CAA	-201	1/2	6,090	16.1	13.1	11.8	1/4 F	3/8 F
		ART69C1	AKA9442EXA	MCFH-0056	IAA	-201	1/2+	7,440	17.4	14.4	11.8	1/4 F	3/8 F
	R-134a	ARB13C3E	AEA3414YXA	M2FH-0017	SAA	-106	1/6	1,710	13.8	11.3	9.7	1/4 F	3/8 F
		ARB17C3E	AEA3417YXA	M2FH-0020	SAA	-106	1/5	1,930	13.8	11.3	9.7	1/4 F	3/8 F
		ARE25C3E	AEA3425YXA	M2FH-0024	SAA	-106	1/4	2,600	13.8	11.8	9.7	1/4 F	3/8 F
		ARE27C3E	AEA4430YXA	M2FH-0026	IAA	-001	1/4+	2,940	13.8	11.8	9.7	1/4 F	3/8 F
		ARE37C3E	AEA4440YXA	M2FH-A033	IAA	-201	1/3	3,820	13.8	11.3	9.7	1/4 F	3/8 F
		ART51C1E	AEA4448YXA/D	M2FH-0049	IAA/IAV	-201	1/2-	5,150	16.2	12.7	11.8	1/4 F	3/8 F
		ART62C1E	AKA4460YXA/D	M2FH-0050	IAA/IAV	-201	1/2	6,290	16.2	12.7	11.8	1/4 F	3/8 F
	ART64C1E	AKA4476YXA/D	M2FH-0056	IAA/IAV	-201	1/2+	6,870	17.9	14.3	11.8	1/4 F	3/8 F	
	R-404A	ASB12C3E	AEA9415ZXA	M4FH-0022	IAA	-106	1/5	2,310	13.8	11.4	9.7	1/4 F	3/8 F
ASE19C3E		AEA9422ZXA	M4FH-0025	IAA	-201	1/4	3,240	13.8	11.8	9.7	1/4 F	3/8 F	
ASE24C3E		AKA9427ZXA/D	M4FH-A036	IAA/IAV	-201	1/3	4,650	16.1	12.7	11.8	1/4 F	3/8 F	
ASE32C3E		AKA9438ZXA/D	M4FH-0050	CAACAV	-201	1/2	6,040	16.1	12.7	11.8	1/4 F	3/8 F	
LOW Temperature (-10°F Evap, 90°F Ambient) Capacities are at 60 Hz with 5° F subcooling	R-12	ARB13C3	AEA1343AXA	MBFS-0017	SAA	-106	1/6	580	13.8	11.1	9.7	1/4 F	3/8 F
		ARB17C3	AEA1360AXA	MBFS-0020	SAA	-106	1/5	700	13.8	11.1	9.7	1/4 F	3/8 F
		ARE25C3	AEA3425AXA	MBFS-0024	SAA	-106	1/4	960	13.8	11.8	9.7	1/4 F	3/8 F
		ARE37C3	AEA2410AXA	MBFS-0033	IAA	-109	1/3	1,270	13.8	11.8	9.7	1/4 F	3/8 F
		AFT12C1	AEA2415AXA	MBFL-0034	IAA	-001	1/3+	1,700	16.0	12.2	9.7	1/4 F	3/8 F
		AFJ23C1	AJA2425AXA	MBFL-0050	IAA	-201	1/2	2,400	16.2	13.1	11.8	1/4 F	1/2 F
	R-134a	AFB05C3E	AEA1360YXA	M2FL-0023	IAA	-106	1/5	740	13.8	11.3	9.7	1/4 F	3/8 F
		AFE10C3E	AEA2410YXA	M2FL-A025	IAA	-105	1/4	1,070	13.8	11.6	9.7	1/4 F	3/8 F
		AFE12C3E	AEA2413YXA	M2FL-B033	IAA	-001	1/3	1,240	13.8	11.6	9.7	1/4 F	3/8 F
		AFT12C1E	AEA2413YXA	M2FL-0040	IAA	-109	1/3+	1,540	16.7	12.4	9.7	1/4 F	3/8 F
		RF18C2E	AJA2419YXA/D	FTAL-A050	IAA/IAV	-201	1/2	2,260	16.2	13.2	11.9	1/4 F	1/2 F
	R-404A	AFB09C3E	AEA2410ZXA	M4FL-0025	IAA	-001	1/4	920	13.8	11.8	9.7	1/4 F	3/8 F
		AFE11C3E	AEA2380ZXA	M4FL-0033	IAA	-001	1/3	1,390	13.8	11.8	9.7	1/4 F	3/8 F
		AFE11C3E	AEA2411ZXA	M4FL-0033	IAA	-001	1/3	1,390	13.8	11.8	9.7	1/4 F	3/8 F
		AFE13C3E	AHA2419ZXA	M4FL-0040	IAA	-201	1/3+	2,040	16.2	13.1	11.8	1/4 F	3/8 F
		AFE13C3E	AJA2419ZXA	M4FL-0040	IAA	-201	1/3+	2,040	16.2	13.1	11.8	1/4 F	3/8 F
		AFT18C1E	AJA2425ZXA	M4FL-0051	IAA	-201	1/2	2,430	17.4	13.1	11.9	1/4 F	1/2 F
	AFT26C1E	AJA2425ZXA/D	M4FL-0067	CFA/CFV	-201	1/2+	3,260	18.1	14.4	11.8	1/4 F	1/2 F	

F= Flare

BOM#	BOM Features
-105	Suction valve, liquid base valve, power cord, ULR
-106	Suction valve, power cord, ULR
-109	Suction valve, receiver w/valve, power cord, ULR
-201	Suction valve, receiver w/valve, guards, end covers, conduit, ULR
-001	Same as -201 plus pressure control and UL listed

Voltage Code	Voltage Rating
SAA, IAA, CAA, CFA	115V-60Hz -1ø
IAV, CFV	208/230V-60Hz-1ø

There is even a special EK Filter Drier designed just for the demanding food service environment – the EK032/052 SV Cap Filter Drier, which continues to be a hit with food service contractors.

	PCN Sweat	PCN Flare	PCN Cap
EK032	060009	060012	063208
EK052	047601	047602	065846



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