

Copeland YF scroll compressor

For low temperature A2L refrigeration applications.

Qualified for A2L refrigeration applications

The YF models are intended for low temperature A2L refrigeration applications and are ideally suited for applications such as walk-in and reach-in freezers. These compressors are wide-ranged, multi-refrigerant capable with lower sound and vibration recommended for supermarket, restaurant and convenience store operations.

Copeland developed optimized compression solutions for a variety of lower global warming potential (GWP) refrigerants, including A2L refrigerants R-454A, R-454C, and R-455A.

Classified as “mildly flammable,” A2L refrigerants have been identified as viable alternatives to high-GWP hydrofluorocarbons (HFCs). A2L refrigerants have the potential to solve application challenges within the commercial refrigeration landscape. With charge limits exceeding those approved for R-290, A2Ls represent a potentially higher-capacity alternative in self-contained applications. They also have a likely place in distributed architectures, such as remote, outdoor condensing units (OCUs) or mini-racks used in smaller-format outlets.

Improved efficiency and reliability plus quieter operation

Copeland offers a new solution for operators looking to improve operations and reduce costs in refrigeration systems. The Copeland YF scroll compressor represents the latest innovation in scroll technology for refrigeration equipment from 0.75 - 9 HP (3k-30k BTU/hr at standard low-temperature rating conditions). It is more efficient than standard reciprocating compressors with 70% less moving parts for increased reliability.



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Copeland scroll technology is an all-around superior refrigeration solution

- Smooth scroll movement leads to low sound and vibration
- Smooth start and stop of a scroll translates into longer compressor life
- 70% fewer moving parts than a reciprocating compressor means better reliability
- Axial & radial scroll compliance provides improved liquid handling capability
- Hermetic design reduces refrigerant leak potential

A wide operating range makes the Copeland YF scroll compressor lineup a flexible solution for many refrigeration needs

- Covers evaporating temperatures from -40°F to +10°F
- Qualified for multiple refrigerants including: R-454A, R-454C, R-455A, R-404A, R-507, R-407A, R-407C, R-448A, R-449A, R-134a
- Recommended for walk-in and reach-in freezers

YF model summary

Model	Capacity (Btu/hr)			Length (in)	Width (in)	Height (in)
	R-454A	R-454C	R-455A			
YF03KAE	2520	2130	2320	9.7	9.7	15.3
YF04KAE	3410	2890	3150	9.7	9.7	15.3
YF05KAE	4030	3420	3730	9.7	9.7	15.3
YF06KAE	5720	4830	5270	9.7	9.7	15.3
YF05KSE	6280	5190	5570	9.6	9.4	14.6
YF07KAE	6410	5410	5900	9.7	9.7	15.3
YF06KSE	7750	6410	6880	9.6	9.4	15.5
YF08KAE	7940	6700	7290	9.7	9.7	15.3
YF07KSE	8700	7180	7710	9.6	9.5	15.9
YF09KSE	10900	8980	9650	9.6	9.5	16.5
YF10KAE	12800	10550	11350	9.7	10.1	17.4
YFI10KAE*	14250	12100	12700	10.1	9.7	17.2
YF13KAE	15800	13100	14100	9.7	10.1	17.4
YF15KAE	18700	15550	16650	9.7	10.1	17.4
YFI15KAE*	21000	17900	18850	9.7	10.2	18.5
YF19KAE	23700	19750	21200	11.1	9.7	18.5
YFI19KAE*	26500	22700	23900	12.1	9.7	17.2
YF22KAE	27700	23100	24800	10.4	10.1	18.0
YFI22KAE	30900	26300	27700	10.4	10.2	18.6

Preliminary dewpoint capacity at -25°F/105°F/65°F return gas 0°F subcooling
 YFI vapor injection model capacity at -32°F/90°F
 *Digital modulating YFD models available