

Copeland outdoor refrigeration unit

For medium-and low-temp walk-in applications

The Copeland outdoor refrigeration unit sets a new standard for energy efficiency, reliability, and installation flexibility. With new smaller capacities now available down to $\frac{3}{4}$ HP, and expanded refrigerant approvals, its industry leading on-board diagnostics and system protection are available for more applications commonly found in today's food service establishments.

The Copeland outdoor refrigeration unit was designed based on three factors:

Energy efficiency

Scroll compressor technology, variable-speed fan motors, large capacity condenser coils, and advanced control algorithms work together to significantly reduce energy consumption.

Reliability

Equipment reliability is greatly enhanced by combining the proven reliability of Copeland scroll compressors with advanced on-board technology. Each unit has built-in diagnostics and protection that can alert and record alarms independently, or communicate with building management systems.

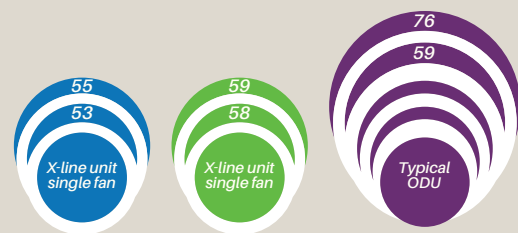
Flexibility

The ultra-quiet variable-speed fan motor significantly reduces exterior sound levels and is combined with a lightweight weather-resistant cabinet, slim footprint, and optional wall mounting capability to deliver unmatched installation flexibility.



Sound pressure (dBA) @ 10 feet

Sound operating range for $\frac{3}{4}$ -6 HP units²



11 to 16 dBA lower for ultra-quiet operation

² Sound values shown represent the X-Line's lowest and highest operating dBA measurements, or typical industry outdoor unit published data, for both MT and LT products. Sound pressure values are 10 feet from the unit at 25°F evap for MT and -10°F evap for LT at 90°F ambient. A sound reduction of up to 3 dBA will occur in ambient temperatures below 70°F. This data is typical of "free field" conditions for horizontal air cooled condensing units and may vary depending on the condensing unit installation. There are many factors that affect the sound reading of condensing unit such as unit mounting, reflecting walls, background noise and operating condition.

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Capacity and efficiency

All new X-Line models meet the Department of Energy's new requirements for annual walk-in energy factor (AWEF) ratings for walk-in coolers and freezers.

Standard features

- Light weight, slim-line profile for ease of installation
- Over-sized condenser coils with additional fin corrosion protection for coastal zones
- Variable-speed PSC fan motors
- Advanced on-board diagnostics
- Electronic defrost control with programmable defrost scheduling
- Brass service valves located externally for easy access
- Heated insulated receiver for low-ambient operation
- All units are factory tested for braze joint leaks, wiring connections, electrical continuity and start-up performance

Medium temp capacity @ 95°F Ambient/25°F Evap, 65° RG; 5° subcooling									
Model number*	Comp.	R-404A		R-407A		R-407C		R-448A/R-449A	
		Cap.	AWEF	Cap.	AWEF	Cap.	AWEF	Cap.	AWEF
XFAM-008Z	ZB06KAE	8,030	7.6	7,220	7.6	6,770	-	7,390	7.6
XFAM-010Z	ZB07KAE	9,690	7.6	8,780	7.6	8,080	-	8,780	7.6
XFAM-012Z	ZB08KAE	11,000	7.6	10,200	7.6	9,370	-	10,300	7.6
XFAM-015Z	ZS09KAE	12,400	7.6	11,400	7.6	10,900	-	10,700	7.6
XFAM-017Z	ZS11KAE	14,400	7.6	13,500	7.6	12,900	-	12,800	7.6
XFAM-020Z	ZS13KAE	17,000	7.6	15,300	7.6	14,600	-	14,500	7.6
XFAM-022Z	ZS15KAE	20,300	7.6	18,300	7.6	17,500	-	17,300	7.6
XFAM-025Z	ZS19KAE	21,700	7.6	20,400	7.6	19,600	-	19,200	7.6
XFAM-030Z	ZS21KAE	28,200	7.6	26,300	7.6	25,800	-	26,500	7.6
XFAM-033Z	ZS26KAE	31,700	7.6	29,300	7.6	28,400	-	28,100	7.6
XFAM-037Z	ZS29KAE	35,300	7.6	31,800	7.6	31,400	-	32,500	7.6
XFAM-045Z	ZS33KAE	39,100	7.6	36,800	7.6	35,400	-	36,800	7.6
XFAM-050Z	ZS38K4E	46,700	7.6	43,600	7.6	42,900	-	44,500	7.6
XFAM-060Z	ZS45K4E	53,000	7.6	51,500	7.6	51,000	-	52,500	7.6

*Data for XFAM models also applies to equivalent XFAP models.

This refrigeration system is designed and certified for use in walk-in cooler applications.

See Copeland.com/OPI for complete specifications and additional refrigerant performance data.

Low temp capacity @ 95°F Ambient/-10°F Evap									
Model number*	Comp.	R-404A		R-407A		R-407C		R-448A/R-449A	
		Cap.	AWEF	Cap.	AWEF	Cap.	AWEF	Cap.	AWEF
XFAL-008Z	ZF03KAE	4230	2.92	3590	2.89	3360	-	3740	2.9
XFAL-009Z	ZF04KAE	5770	2.98	4890	2.94	4540	-	5080	2.95
XFAL-010Z	ZF05KAE	6960	3.04	5780	2.98	5390	-	6020	2.99
XFAL-012Z	ZF07KAE	10700	3.15	9020	3.13	8210	-	9070	3.14
XFAL-020Z	ZXI06KCE	12910	3.15	9230	3.15	9110	-	11290	3.15
XFAL-030Z	ZXI09KCE	16800	3.15	13450	3.15	11050	-	13930	3.15
XFAL-035Z	ZXI11KCE	18900	3.15	15120	3.15	14560	-	17200	3.15
XFAL-040Z	ZXI14KCE	24210	3.15	21080	3.15	19760	-	22870	3.15
XFAL-050Z	ZXI15KCE	26620	3.15	22170	3.15	20530	-	25660	3.15
XFAL-051Z	ZXI16KCE	26620	3.15	22170	3.15	20530	-	25660	3.15
XFAL-060Z	ZXI18KCE	33720	3.15	29270	3.15	25380	-	27680	3.15

*Data for units containing ZF compressors are rated at 40 degree return gas; ZI compressors are rated at 65 degree return gas.

This refrigeration system is designed and certified for use in walk-in freezer applications. See Copeland.com/OPI for complete specifications and additional refrigerant performance data.



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2018ECT-23 R3(8/20) 4979598 ©2024 Copeland LP

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