

Copeland™ ZX Outdoor Refrigeration Units for A2L Refrigerants

The Copeland ZX outdoor refrigeration units for A2L refrigerants offer additional benefits for wholesalers, installers and operators.

With this new range of Copeland ZX outdoor refrigeration units, Emerson offers a low GWP solution for refrigeration applications with space and noise constraints which responds to the increasing demand for energy-efficient and future-proof refrigeration solutions.

Copeland ZX units feature the most complete and unique equipment. The modified design, the innovative control logic and a selection of dedicated components enable legal compliance for applications with A2L refrigerants. The advanced electronic controller enables precise parameter control and displays the system status. Electronic protection functions, oil separator and suction accumulator guarantee optimum system safety. The range is completed by models with stepless digital capacity modulation which are well established in applications with multiple evaporators and precise temperature control.

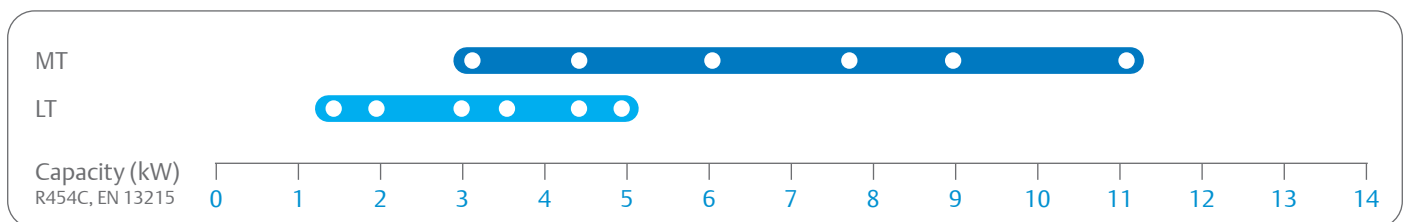


The new Copeland series of outdoor refrigeration units are specifically designed to cater for a wide range of refrigeration applications which request a low GWP and future-proof solution:

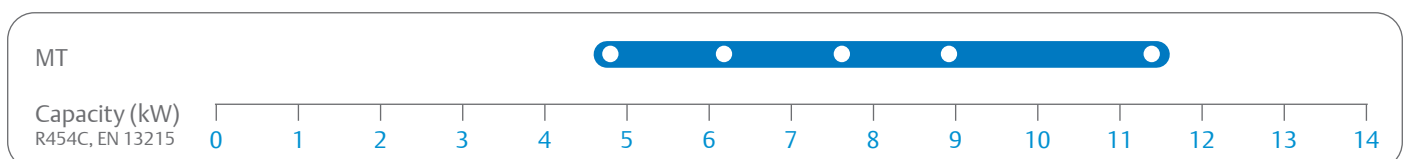
- Convenience stores
- Cold rooms
- Fast food chains and restaurants
- Bakeries and butchers

Capacity Line-up

ZX



ZX Digital



Technical Overview

Model	Displacement (m ³ /h)	Receiver Capacity (l)	Number of fans	Total Fan Motor Power (W)	Suction Line Diameter (inch)	Liquid Line Diameter (inch)	Width/Depth/Height (mm)	Net Weight (kg)	Motor Version/Code	Maximum Operating Current (A)	Locked Rotor Current (A)	Sound Pressure
									3 Ph*	3 Ph*	3 Ph*	@10m - d(BA)**
Medium Temperature Models												
ZXMY-020E	5.8	4.1	1	115	3/4	1/2	446/1035/840	76	TFM	4.2	26.0	37
ZXMY-030E	8.0	4.1	1	115	3/4	1/2	446/1035/840	79	TFM	5.5	32.0	38
ZXMY-040E	11.4	4.1	1	115	3/4	1/2	446/1035/840	91	TFM	7.8	50.0	38
ZXMY-050E	14.3	5.9	2	230	7/8	1/2	446/1035/1244	108	TFM	10.1	64.0	41
ZXMY-060E	16.7	5.9	2	230	7/8	1/2	446/1035/1244	112	TFM	11.8	74.0	41
ZXMY-075E	21.4	5.9	2	230	7/8	1/2	446/1035/1244	118	TFM	15.9	102.0	41
Digital Medium Temperature Models												
ZXDY-030E	8.8	4.1	1	115	3/4	1/2	446/1035/840	79	TFM	6.7	40.0	39
ZXDY-040E	11.4	5.9	2	230	7/8	1/2	446/1035/1244	106	TFM	10.0	48.0	42
ZXDY-050E	14.4	5.9	2	230	7/8	1/2	446/1035/1244	108	TFM	11.3	64.0	42
ZXDY-060E	17.1	5.9	2	230	7/8	1/2	446/1035/1244	112	TFM	12.3	74.0	43
ZXDY-075E	21.4	5.9	2	230	7/8	1/2	446/1035/1244	118	TFM	15.9	102.0	43
Low Temperature Models												
ZXLY-020E	5.9	4.1	1	115	3/4	1/2	446/1035/840	74	TFD	6.5	24.5	37
ZXLY-030E	8.0	4.1	1	115	3/4	1/2	446/1035/840	81	TFD	7.6	36.0	37
ZXLY-040E	11.8	4.1	1	115	3/4	1/2	446/1035/840	87	TFD	9.8	46.5	38
ZXLY-050E	14.4	5.9	2	230	7/8	1/2	446/1035/1244	113	TFD	11.5	58.0	41
ZXLY-060E	17.1	5.9	2	230	7/8	1/2	446/1035/1244	115	TFD	15.3	67.0	41
ZXLY-075E	21.4	5.9	2	230	7/8	1/2	446/1035/1244	121	TFD	19.1	92.0	42

* 3ph: 380-420V/ 50Hz

** @ 10m: sound pressure level at 10m distance from the compressor, free field condition

Features and Benefits

Standard equipment

- Copeland™ scroll compressor, crankcase heater, liquid receiver, service valves, filter drier & sight glass
- Dedicated hermetic A2L design with sealed E-box and fresh air intake control logic
- External main power switch
- Fan speed control
- Oil separator (Digital and LT version)
- Suction accumulator (LT version only)

Wide choice of low GWP refrigerants

- Multiple A2L refrigerants approved: R454A, R454C, R455A, R1234yf
- Compatible with A1 refrigerants: R404A, R407A, R407F, R448A, R449A, R134a, R450A, R513A
- Enabling F-Gas compliance
- Enabling Eco-design compliance

Quiet operation

- Copeland scroll compressor
- New fans with improved sound level
- Fan speed control

Minimized operating costs

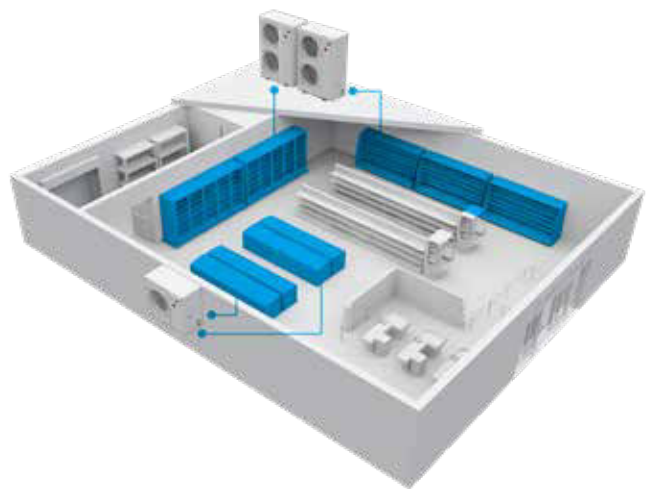
- High efficiency Copeland scroll compressor
- Digital capacity modulation (ZX Digital)
- Speed modulating high efficiency fan
- Intelligent protection and diagnostics

Reduced service costs

- Easy access to all components
- Scroll liquid handling capability for higher reliability than reciprocating technology
- Wider operating envelope of scroll than reciprocating technology

Designed for time and space saving installations

- Plug & Play installation/commissioning
- Hinged door for better access
- Easy handling through compact & light weight design
- Perfect for wall mount or roof mount applications



For more details, see climate.emerson.com/en-gb

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