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DATE: 23.10.2020
TO: All Customers
FROM: Emerson Commercial & Residential Solutions – Europe
Emerson Climate Technologies GmbH
SUBJECT: Copeland ZX Outdoor Refrigeration Units for A2L Refrigerants -
Product Launch

Emerson Commercial and Residential Solutions is pleased to announce the release of the new range of Copeland ZX outdoor refrigeration units for A2L refrigerants.

The new range of ZX refrigeration units comprises 11 models for medium temperature applications, of which 5 feature digital capacity modulation. The units are equipped with highly efficient Copeland Scroll compressors and are optimized for use with multiple A2L refrigerants, giving customers high reliability and flexibility for applications using low GWP refrigerants.



The key benefits of Copeland ZX outdoor refrigeration units for A2L refrigerants are:

Optimised design for mildly flammable refrigerants

- Use of dedicated A2L approved components
- Full hermetic design reducing risk of leakage
- New fan with safety logic to vent the housing in case of need
- Sealed electrical box avoiding risk of sparks
- Low volume mini-channel condenser minimizing refrigerant charge

Maximum reliability to reduce life cycle costs

- Corrosion protection through galvanized panels and coated condenser fins
- Oil separator as standard for Digital models maintaining correct oil levels
- Advanced electronic protection against incorrect voltage and phase imbalance

Superior energy efficiency to reduce operational costs

- Highly efficient Copeland Scroll™ compressors combined with generously sized condensers providing the highest level of efficiency and significant energy savings
- Continuous capacity modulation from 10 – 100 % for Digital models enabling precise temperature control

Multiple refrigerant approval to increase application flexibility

- One model fits all as all models are approved for A1 and A2L refrigerants:
- R454A, R454C, R455A, R1234yf, R448A/R449A, R407A/F, R450A, R513A, R134a, and R404A.
- Easier logistics and lower stock levels
- Enabling long term F-Gas Compliance with low GWP (< 150) options

Cost and time saving installation and service

- Plug and Play installation
- External main power switch
- Easy access to components through the front door
- One single controller type for all models reducing complexity
- System information displayed through a transparent window

Advanced controller concept for precise system control

- Precise electronic suction pressure control on all models
- Precise and adjustable fan speed control on condensing pressure input
- Cold room temperature control functionality
- Modbus communication

The table below outlines the unit range and provides ordering information:

Application	HP	Ident	Model	MT Capacity*
Medium Temp Fix Speed ~3phase	2HP	3274820	ZXMY-020E-TFM-304	3.6 kW
	3HP	3274831	ZXMY-030E-TFM-304	5.0 kW
	4HP	3274842	ZXMY-040E-TFM-304	6.9 kW
	5HP	3274853	ZXMY-050E-TFM-304	8.9 kW
	6HP	3274864	ZXMY-060E-TFM-304	10.4 kW
	7.5HP	3274875	ZXMY-075E-TFM-304	12.8 kW
Medium Temp Digital ~3phase	3HP	3274886	ZXDY-030E-TFM-454	0.5 – 5.0 kW
	4HP	3274897	ZXDY-040E-TFM-454	0.7 – 6.9 kW
	5HP	3274900	ZXDY-050E-TFM-454	0.9 – 8.9 kW
	6HP	3274911	ZXDY-060E-TFM-454	1.0 – 10.4 kW
	7.5HP	3274922	ZXDY-075E-TFM-454	1.3 – 12.8 kW

* EN13215 MT condition with R454A

The new models comply with the latest energy efficiency requirements according to EU Regulation 2015/1095.

All new models listed above can be ordered starting 1st. of November 2020.

For further information please contact your local Emerson Climate Technologies representative.