

Copeland EazyCool™ outdoor refrigeration units for R744 transcritical applications

With this range of outdoor refrigeration units, Emerson offers a solution which responds to the increasing demand for future-proof refrigeration technology.

These refrigeration units are designed for operation with the natural refrigerant CO₂ which has a very low global warming potential (GWP) of only 1.

The range features the latest technology in an assembly of high quality components which are adjusted for efficient and reliable operation. The integrated frequency inverter controls the compressor speed exactly to the capacity demand of the application. EC-fans remove the heat from the gas cooler in the most efficient and silent way.

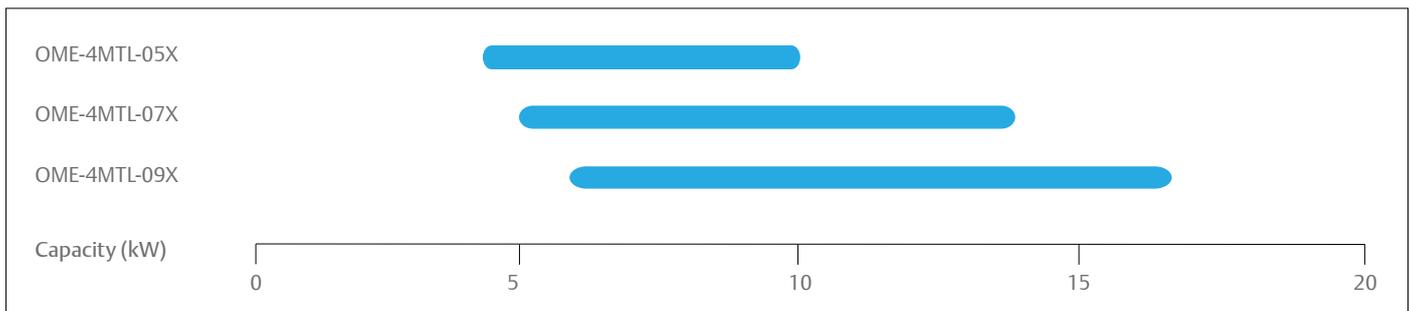
The state-of-the-art electronic controller allows for precise adjustment and control of all relevant parameters and comprises numerous electronic protection functions for highly reliable operation.



The refrigeration units are the future-proof choice for various target applications:

- Convenience stores
- Forecourt sites
- Cold rooms
- Fast food stores, bars and restaurants

Capacity Line-up





Technical Overview

Model	Displacement @ 50 Hz [m ³ /h]	Cooling Capacity @ 50 Hz [kW]	Receiver Capacity (l)	Suction Tube Diameter inch	Discharge Tube Diameter inch	Dimensions W / D / H (mm)	Design Pressure High/Med/Low (bar)	Net Weight [kg]	Power Supply	Nominal Current (A)	Sound Pressure 10 m dB (A)
OME-4MTL-05X	4.6	8.7	20	3/4	1/2	1574/900/1120	120/45/45	440	3/N/PE~50Hz 400/230V TN-S	19	42 - 44
OME-4MTL-07X	6.2	11.8	20	3/4	5/8	1574/900/1120	120/45/45	440	3/N/PE~50Hz 400/230V TN-S	22	42 - 44
OME-4MTL-09X	7.4	14.6	25	7/8	5/8	1574/900/1120	120/45/45	460	3/N/PE~50Hz 400/230V TN-S	27	42 - 44
OME-4MTL-05X-HP	4.6	8.7	20	3/4	1/2	1574/900/1120	120/90/90	440	3/N/PE~50Hz 400/230V TN-S	19	42 - 44
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Features and benefits

- Future-proof solution with natural GWP 1 refrigerant, not impacted by F-Gas legislation
- Low carbon footprint
- Silent operation due to special attenuation on panels and sound optimized EC fans
- High energy efficiency through inverter controlled compressor and EC fans
- Space saving design
- Time saving commissioning by pre-set parameters
- High reliability with electronic protection against incorrect voltage, phase, current and discharge temperature
- State-of-the-art controller for precise system control
- Modbus communication functionality
- LCD Display to show the operation status
- OilWatch maintains correct system oil level
- Controller prepared for heat recovery and monitoring
- Easy access for time saving service
- Built and tested in advanced industrial processes

Design pressure

- 90 bar in receiver
- 120 bar on high-pressure side

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

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