

COPELAND CO₂ TRANSCRITICAL REFRIGERATION UNITS

Our innovative technology and over 100 years of expertise across cooling, heating, and refrigeration help our customers achieve their sustainability goals.

The new Copeland CO₂ scroll refrigeration units combine the innovative CO₂ scroll technology with a smart control concept revolutionizing the world of commercial refrigeration.

In the center of the new refrigeration units stands an entirely new type of transcritical CO₂ compressor equipped with innovative dynamic vapor injection (DVI) technology. DVI allows for flash gas to be directly injected into the compressor resulting in efficient and smooth operation, independent from outside temperatures. This avoids shutdown during summertime. A smart control concept manages all system components enabling efficient and reliable operation while constantly keeping a high level of food quality.



COPELAND

COPELAND

CO₂ scroll refrigeration unit

Revolutionizing the way commercial refrigeration is done



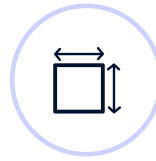
EcoDesign compliant



Reliable



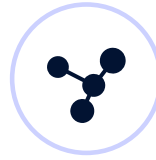
Flexible modular design



Small footprint



Efficient



Sustainable CO₂



Silent operation



Trouble-free installation

Modular concept to overcome noise and space restrictions in any application



Packaged outdoor installation



Split indoor/outdoor installation



Split outdoor installation



Packaged indoor installation



Low total cost of ownership

Copeland CO₂ scroll technology is good news for those who value efficiency, reliability, and low cost of ownership.



One solution, all climate conditions

The CO₂ scroll refrigeration units are designed for efficient and continuous operation even in the warmest climates and guarantee uninterrupted operation until a 44°C ambient temperature.



Less is more!

Our new technology's simplicity affects the entire life cycle of a refrigeration system: it's easy to plan, easy to install, and easy to run!



Tailored for inner-city stores

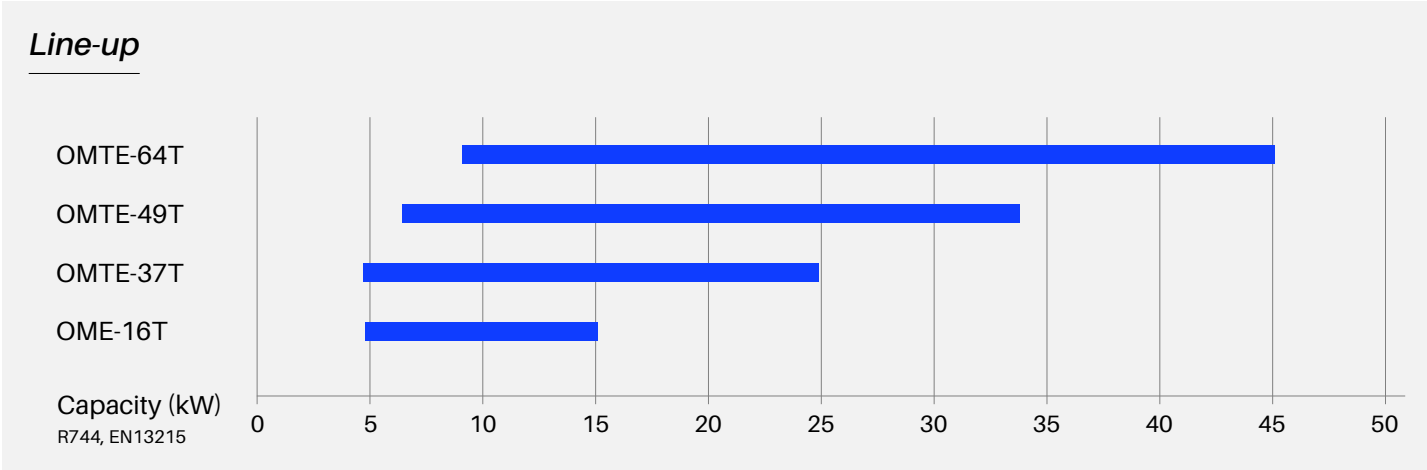
The range of refrigeration units is designed for the needs of small- and medium-sized supermarkets, convenience stores, and grocery shops.

Medium- and low-temperature units – technical overview

Models	Cooling* [kW]	Compressors quantity	Fans quantity	Receiver capacity [l]	Suction line diameter [inch]	Liquid line diameter [inch]	Width / depth / height [mm]	Net weight [kg]	Power supply	Nominal current [A]	Sound @ 10m [dBA]**
OME-16T-TEM	14.8	1	1	20	5/8	1/2	1651/830/1405	405	400 V 3Ph ~50Hz	31.00	34
OMTE-37T-TEM	24.6	2	2	20	3/4	5/8	3138/847/1410	585	400 V 3Ph ~50Hz	52.00	34
OMTE-49T-TEM	33.5	2	2	2x20	7/8	3/4	3538/882/1425	700	400 V 3Ph ~50Hz	73.00	36
OMTE-64T-TEM	44.8	2	2	2x20	7/8	3/4	3538/882/1785	750	400 V 3Ph ~50Hz	90.00	36
OLE-18L-TEM	8.0	1		N/A	3/4	3/8	834/408/1103	118	400 V 3Ph ~50Hz	6.04	26
OLE-25L-TEM	11.3	1		N/A	3/4	3/8	834/408/1103	119	400 V 3Ph ~50Hz	8.03	28

Condition EN13215: R744, Evaporating Temperature LT: -30°C | MT: -10 °C, Ambient Temperature 32°C, Suction Superheat 10K, Gas Cooler Outlet = 35°C
* @ 84 Hz for LT, @ 90 Hz for MT
** Sound pressure level at free field and 10m distance at standard working conditions

Medium-Temperature Low-Temperature



For more details, see copeland.com/CO2Refrigeration

Copeland Climate Technologies Limited
Tel: +44 1189 83 80 00 - Email: uk.sales@copeland.com - Internet: copeland.com/en-gb

The Copeland logo is a trademark and service mark of Copeland LP or one of its affiliates.
Copeland Europe GmbH shall not be liable for errors in the stated capacities, dimensions, etc., as well as typographic errors.
Products, specifications, assumptions, designs and technical data contained in this document are subject to modification by us without prior notice. Illustrations are not binding. ©2025 Copeland LP

