



United Technologies

MicroCOOL₂

The ultimate CO₂ refrigeration system
for the smallest of applications



LT Cooling Capacity 1 – 3kW
MT Cooling Capacity 2 – 6kW

Cost-effective CO₂ systems for the smallest of applications

Efficient, natural refrigeration

The Carrier **MicroCO₂OL™** range of refrigeration racks utilise natural refrigerant carbon dioxide (CO₂) to provide sustainable, energy efficient refrigeration solutions across a wide range of cooling capacities.

MicroCO₂OL racks are part of the Carrier **CO₂OLtec®** range of CO₂ refrigeration plants. **CO₂OLtec** systems demonstrate average energy savings of approximately 10 percent as compared to traditional HFC refrigeration systems in mild to cold climates, resulting in attractive life cycle costs and low return on investment periods.

CO₂ is an ozone friendly refrigerant; it has a Global Warming Potential (GWP) of just one, an Ozone Depletion Potential (ODP) of zero and is not subject to F-Gas regulations

Product features

- Economical, value-engineered product range
- Small size condensing unit with one compressor
- Outdoor unit saving indoor space
- Integrated gas cooler
- “Plug-and-play” installation
- Single temperature range
- High/medium/low temperature
- Variable Speed Drive (VSD)
- Integrated electrical panel incorporating rack and gas cooler controls
- Monitoring and Web server included
- Standardised, factory produced units

Optional features

- Heat exchanger on warm side for heat recovery
- Liquid cooled gas cooler (instead of air cooled)
- Communication with other monitoring systems as Eckelmann, Danfoss, Carel, Wurm etc.



Low temperature	
Designation	Cooling Capacity (kW)*
MICRO 1 15 LT	1
MICRO 1 19 LT	2
MICRO 1 24 LT	3

* Evaporating temp. at rack = -35°C

Medium temperature	
Designation	Cooling Capacity (kW)**
MICRO 1 11 MT	2
MICRO 1 15 MT	3
MICRO 1 19 MT	4
MICRO 1 24 MT	5
MICRO 1 30 MT	6

** Evaporating temp. at rack = -8°C
Ambient temperature = 32°C



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