



QuietCOOL₂

Quiet & Environmentally
Sustainable CO₂ Condensing Unit



Here for You.

www.profroid.com

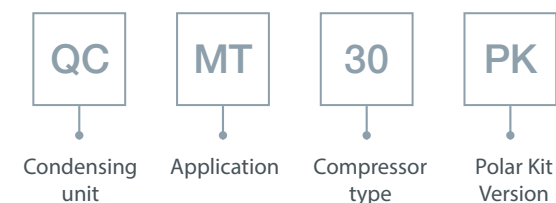
QuietCOOL₂

CO₂ transcritical condensing unit

PRESENTATION

- The QUIETCO₂OL are condensing units using R744 (CO₂) refrigerant specially designed for small and medium-sized cold rooms
- The QUIETCO₂OL bears a state-of-the-art ecoperformance without harming the environment
- Medium and low temperature applications
- Available in standard or « Polar Kit » version
- EU Ecodesign Directive compliance
- CE marked
- Water cooled version available

MODEL DESIGNATION



CASING

- Frame made of galvanized steel sheet
- Casing finished in oven-baked paint (RAL7035)
- Removable compressor compartments and top panels for easy access to components
- Acoustical insulation of compressor compartment

COMPONENTS

- Compressors:
 - 1 or 2 rotary hermetic compressors
 - Silent blocks
 - Inverter with each compressor
 - Air cooled gascooler:
 - Copper tubes/aluminium fins coil
 - 1 or 2 motor fans axial flow 450 or 500 mm diameter
 - AC fan on standard version
 - EC fan on Polar Kit version for a lower sound level and better stability of condensing pressure
 - Horizontal air flow
 - Liquid receiver:
 - Complying to PED 2014/68/EU standard
 - Two or three 2.2L liquid receivers
 - Accessories:
 - Filter dryer
 - Liquid sight glass with moisture indicator
 - Oil separator (LT versions)
 - Service valve on the liquid line
 - HP safety pressure switches
 - 1 (LT versions) or 2 (MT versions) expansion valves
 - Check valve on the suction line
 - Remote suction filter (option)
 - Polar kit version:
 - EC fans
 - Heating resistance for the electrical panel
- Recommendation: Ambient < -15°C Mandatory
Ambient < +5°C Recommended

ELECTRICAL PANEL

- Electrical supply 400V/3ph/50Hz (MT100, MT67, LT112 and LT167 versions) or 230V/1ph/50Hz (other versions)
- Short circuit current 10 kA
- Panel complying with EN 60 204-1 standard
- Protection for compressors and fan motors: Circuit breakers
- Electronic controller
- Integrated communication card with Modbus RS485
- Evaporator protections (refer to the commercial brochure)
- Heating of the electrical panel for Polar Kit versions

CONTROLS

- Compressor, inverter, MP & HP valve management
- Communication with the cold room capability
- Extended compressor envelop
- Integrated semi graphic display
- Preset parameters

INSTALLATION GUIDANCE

- Ensure that the electricity supply to the installation is suitable
- Read carefully start-up and operating instructions manual before any intervention
- Install in an adequately ventilated place
- The refrigerating circuit must be perfectly clean, dry and installed according to best refrigeration practice
- The unit must be held on the ground

INSTRUCTIONS FOR INSTALLATION, COMMISSIONING, OPERATING AND MAINTENANCE

Respect the prescriptions mentioned in the PROFROID operating instructions (available on www.profroidth.com)

NEW PROCOLD CONTROLLER

Include air cooler and expansion valve controls (EVD). The EVD module is delivered assembled and already wired.



Medium Temperature

	QUIETCO ₂ OL MT30	QUIETCO ₂ OL MT45	QUIETCO ₂ OL MT67	QUIETCO ₂ OL MT100
Refrigerant	R744 (CO ₂)			
Size	T1	T1	T1	T2
Nomiale capacity (kW)*	2.25	3.17	5.02	6.82
Minimum capacity (kW)*	0.8	1.13	1.79	2.43
Maximum capacity (kW)*	3.21	4.52	7.18	9.74

Nominal capacity : Evaporating temperature -8 °C / Ambient température +32 °C

Low Temperature

	QUIETCO ₂ OL LT75	QUIETCO ₂ OL LT112	QUIETCO ₂ OL LT167
Refrigerant	R744 (CO ₂)		
Size	T3	T4	
Nomiale capacity (kW)*	2.04	3.2	4.54
Minimum capacity (kW)*	1.31	2.0	2.92
Maximum capacity (kW)*	2.92	4.64	6.48

Nominal capacity : Evaporating temperature -32 °C / Ambient température +32 °C

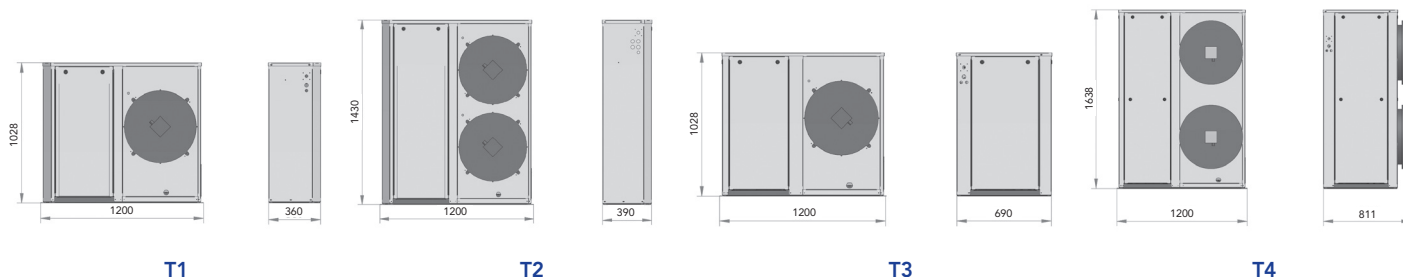
Four different sizes available

QuietCO₂OL 30MT / 45MT / 67MT

QuietCO₂OL 100MT

QuietCO₂OL 75LT

QuietCO₂OL 167LT / 112LT (Only 1 fan)



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