

# COOLER PRECISION AIR CONDITIONER

UNIC sal is equipped to produce a wide range of COOLER® Air conditioning and Refrigeration units, conforming to the international standards and works continually to improve its products and facility. As a result, the design and specifications of each product at the time of order may be changed without notice and may not be described herein. Please contact our customer department for specific information on the current design.

**Consultancy & Design** Our Engineering Dep't is always available to solve special requirements, investigating the client situation and using the most sophisticated available tools. The knowledge and the precious experience of our Engineers is supported by the most advanced computerized calculations and design programs.

Revision AG 16-07



## COOLER PRECISION AIR CONDITIONER

Is a Direct Expansion Split Unit with remote Condenser, suitable for out-door installation. The Indoor Unit shall be suitable for any installation requirements, with Air-outlet from the top, from sides or front, or from bottom, to match the under floor air distribution. The range utilizes single or dual refrigeration circuits to provide one, two or three stages of cooling, dependent on unit selection, in addition to its standard free-cooling capabilities and uses the latest hermetic scroll compressor technology. When operating continuously 24 hours a day, 365 days a year there is the potential to reduce the energy consumption of the heat management system by utilizing the benefits of lower ambient temperatures for a significant proportion of the year. The software for single or multi circuits, Cooling only or Cooling & Heating, for Precision Air-Conditioners, can be quickly customized based on the specific needs of the individual application.

**COOLER® PRECISION AIR CONDITIONER MODELS are available in a wide range of Standard Capacity**

**From 6 to 60 KW & from 800 to 10,000 m3/h of Air-Flow**

**They are designed to operate at the outdoor dusty and tropical ambient temperature as high as +55 °C**

**All Sizes can be tailored to fit any special Client's needs**



**COOLER®** PRECISION AIR CONDITIONER is designed for the perfect control of Temperature, Humidity and Purity of the Air. High precision Temperature sensors are connected to the Automatic Programmable Controller specially made by CAREL up to optimize the 5% perfect customer requirements and saving the precious energy. High precision Hygrometers are trimming the Controller to activate the Precision AC to 'dry' or 'humidify' the Air as per the ambient demand. Silent direct-driven Blowers are supplied according to the Air flow distribution on the ambient, considering the external pressure drop trough the duct, false-ceiling or under-floor passages distribution.

The Air-Filtration is applied according to the ambient scheduled pollution, permanents metallic washables Pre-Filtres, plus EU3 to EU8 disposable Bags-Filters.

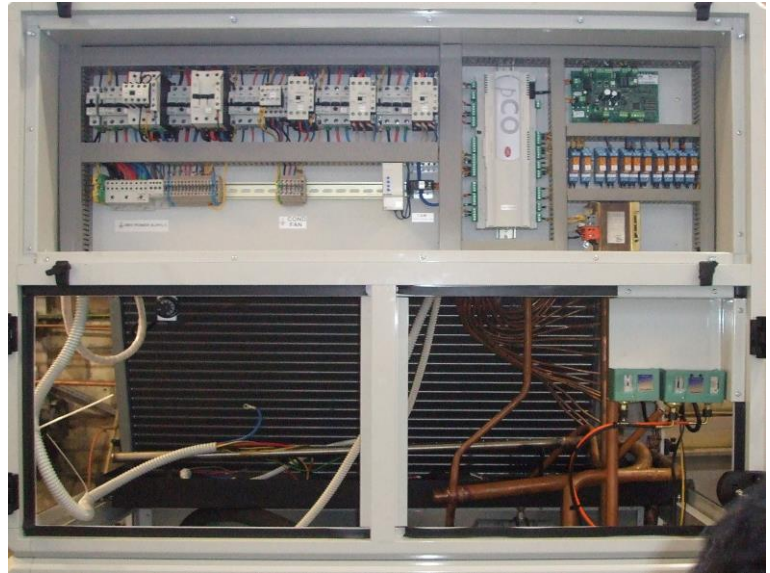
**Special care are related to the 24 hours a day, 365 days a year working conditions**  
 High performance silent Scroll Compressors are installed on the Units



**STANDARD FEATURES:**

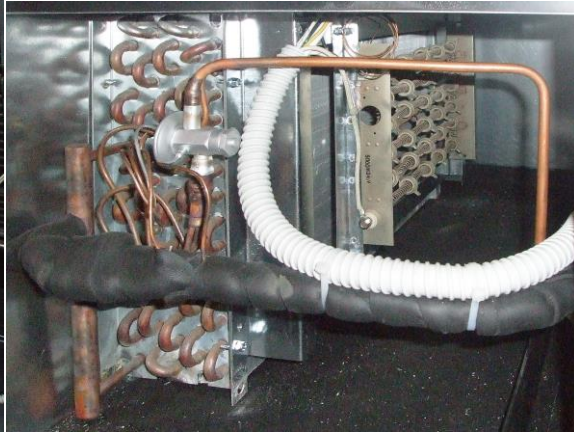
- CAREL Controller
- Hermetic Compressor Scroll or Reciprocating with thermal overload protection
- Dx. Cooling Coil Copper Tubes/Aluminum Fins
- Cleanable permanent Aluminum Filter
- Refrigerant accessories: Liquid Receiver, Filter Drier, Sight Glass, Thermostatic Expansion Valve, High & Low Freon Pressure Relays.
- Electric component, contactors, relays, high/low voltage & phase failure protection.





**OPTIONS:**

- Electric Heater
- Hot Water coil
- Hot refrigerant coil (Heat-recovery from Condenser)
- Steam Humidifier
- Fresh air module
- Remote electric panel
- R134a, R407c, R410c or any other suitable Refrigerant
- Electronic Expansion Valve
- Alarms connected to PC and/or telephone line
- BMS connection port
- Serial adapter RS485
- LAN card for local network
- Clock card
- Software for ISO statistics
- Fire and/or Smoke detector
- Powerful silent Blower for Ducted Air distribution



**QUALITY GUARANTEE**

**UNIC sa** **COOLER®** guarantees contractual free maintenance, availability of all parts and components, and qualified field technicians to carry out the maintenance requirements.

**UNIC sa** Company is ISO 9001:2015, DQS-UL, IQNet and CE Certified.

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