

TW110

Water cooled modular chiller with refrigerant R134a

Cooling capacity 285,0 kW

- Compact dimensions
- Extraordinary efficiency at part load

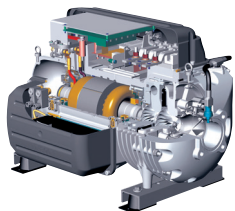


EUROVENT LCP

CHARACTERISTICS

- Cooling only version
- New generation two-stage oil free centrifugal compressor with magnetic levitation friction free bearings
- Plate heat exchangers optimised for use with refrigerant R134a
- Extremely compact: only 805 mm wide to allow access through a standard doorway
- Component layout designed to enable several units to be positioned side by side in restricted plant rooms. Ideal when standby is required or when cooling duty is to be increased at a later date
- High efficiency with generously sized heat exchanger
- Extraordinary efficiency at part load (**up to 30% higher IPLV when compared with standard chillers**)
- Electronic expansion valve

Compressor features



HERCULES

- Operates without oil as bearings are magnetic levitation type. Vibration free and very quiet
- Provided with inverter technology that permits capacity modulation down to 25%
- Integrated controller that reduces starting current to 6 A only
- 5 times lighter than an equivalent screw compressor
- Electronic controller for monitoring and proactive controls

Control

- Microprocessor control system
- LCD user interface: colour touch-screen with simple and intuitive graphical menu

Acoustic enclosure

Heavy gauge galvanized sheet steel with internal acoustic insulation.

ACCESSORIES

AER485P1TW: RS-485 interface for supervision systems with MODBUS protocol.

PTW: Remote control of chiller operating functions.

MULTICHILLER_EVO: Control system to command, activate and deactivate the individual chillers in a system in which several units are installed in parallel, always ensuring constant delivery to the evaporators. (When this accessory is present, **the AER485P1TW is factory fitted as standard**).

PERFORMANCE SPECIFICATIONS

| Size | 110 | |
|---------------------------------|-----|-------|
| Cooling performances (1) | | |
| Cooling capacity | kW | 285,0 |
| Total input power | kW | 56,4 |
| Cooling total input current | A | 88 |
| EER | | 5,05 |
| Water flow rate system side | l/h | 48966 |
| Pressure drop system side | kPa | 30 |
| Water flow rate source side | l/h | 58632 |
| Pressure drop source side | kPa | 43 |

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

ENERGY DATA

| Size | 110 | |
|-----------------------------------------------------------------------|-----|-------|
| Cooling capacity with low leaving water temp (UE n° 2016/2281) | | |
| SEER | W/W | 7,60 |
| η _{sc} | % | 296,0 |

ELECTRIC DATA

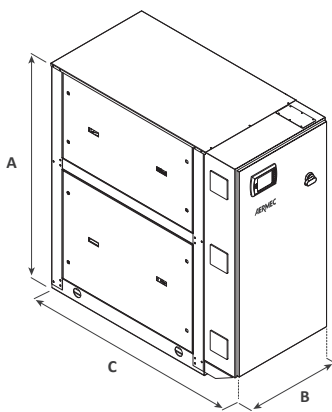
| Size | 110 | |
|-----------------------|--------------|-------|
| Electric data | | |
| Power supply | 400V 3~ 50Hz | |
| Maximum current (FLA) | A | 134,0 |
| Peak current (LRA) | A | 6,0 |

GENERAL TECHNICAL DATA

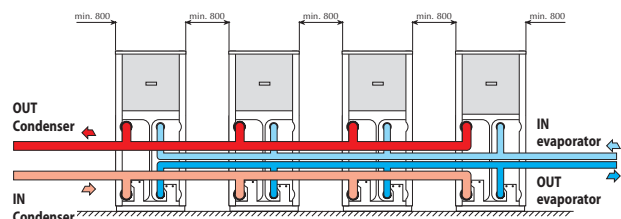
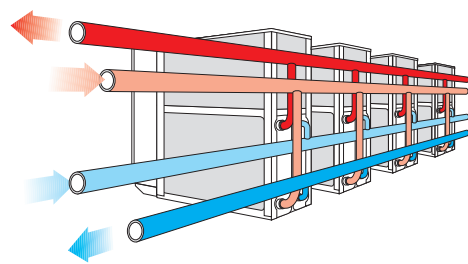
| Size | 110 | |
|------------------------------------------|-------|----------------|
| Source side hydraulic connections | | |
| Connections (in/out) | type | Grooved joints |
| Sizes (in/out) | ∅ | 3" |
| System side hydraulic connections | | |
| Connections (in/out) | type | Grooved joints |
| Sizes (in/out) | ∅ | 3" |
| Sound data (1) | | |
| Sound power | dB(A) | 77 |
| Sound pressure | dB(A) | 49 |

(1) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS



| Size | 110 | |
|-------------------------------|-----|------|
| Dimensions and weights | | |
| A | mm | 1727 |
| B | mm | 805 |
| C | mm | 1653 |
| Weight | kg | 960 |



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