

TW110

Water cooled modular chiller with refrigerant R134a

Cooling capacity 285,0 kW

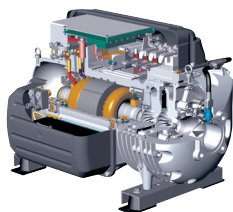
- Compact dimensions
- Extraordinary efficiency at part load



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 INDICES (REG. 2016/2281 EU)

Size	110
SEER - 12/7 (EN14825: 2018) (1)	
SEER	W/W 7,48
η_{SC}	% 296,0%

(1) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.

ELECTRIC DATA

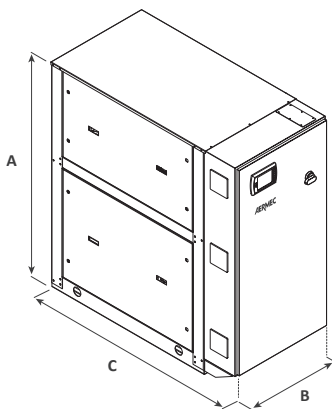
Size	110
Electric data	
Power supply	400V 3~ 50Hz
Maximum current (FLA)	A 134,0
Peak current (LRA)	A 6,0

GENERAL TECHNICAL DATA

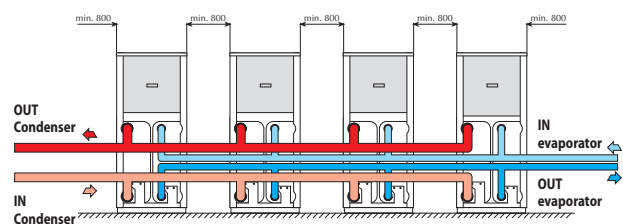
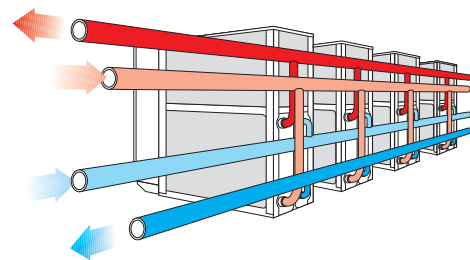
Size	110
Source side hydraulic connections	
Connections (in/out)	type Grooved joints
Sizes (in/out)	\emptyset 3"
System side hydraulic connections	
Connections (in/out)	type Grooved joints
Sizes (in/out)	\emptyset 3"
Sound data (1)	
Sound power	dB(A) 77
Sound pressure	dB(A) 49

(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



Aermec reserves the right to make any modifications deemed necessary.
All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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