

# PICCOLO CRAT - PRAT



**Air-cooled water chillers and heat pumps with axial fans for outdoor installation**

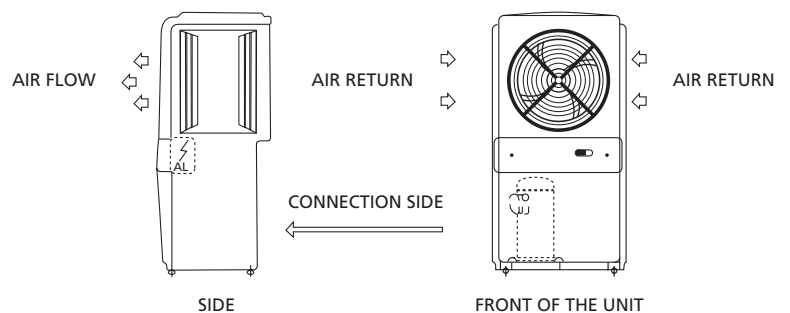
**Range:**  
Cooling capacity: 4 ÷ 7 kW

**Available versions:**  
- Cooling only  
- Heat pump

**Refrigerant R407C  
Rotary Compressor**

## STANDARD FEATURES

- Compact design ideally suited for applications with reduced dimensions
- Ease of installation of hydraulic and electrical connections
- Vertical design with reduced footprint
- Self-supporting cabinet in galvanised steel with a protective thermoformed ABS coating
- Hermetic rotary Compressor with internal thermal protection and anti-vibration supports and acoustic insulation
- Stainless steel brazed plate heat exchangers insulated with closed-cell panded polyurethane
- Heat exchanger coil made of copper tubes mechanically expanded into aluminium fins (coil protected by an external grille)
- Condenser head pressure control through automatic speed regulation
- Rubber anti-vibration feet
- Low-noise due to sound-proofing and automatic fan speed regulation
- Microprocessor control including: local user terminal with LCD display and LED signals for all working parameters
- On-board water circulation pump
- Water flow differential pressure switch
- Expansion tank
- On-board water tank
- Internal change over valve for water recycling on primary circuit and connection with the external pump



## TECHNICAL DATA

### CRAT/PRAT MODEL

Power supply V/ph/Hz

**0021B**

**0031B**

230 / 1 / 50

### Cooling only (CRAT)

Cooling capacity (1) kW

4,5

6,7

Absorbed power (1) kW

1,59

2,34

### Heat pump (PRAT)

Heating capacity (2) kW

4,9

7,6

Absorbed power (2) kW

1,61

2,51

N<sup>o</sup> of circuits / N<sup>o</sup> of compressors

1 / 1

N<sup>o</sup> of fans / N<sup>o</sup> of poles

1 / 6

Airflow m<sup>3</sup>/h

1500

2930

Water flow l/h

760

1150

Available head pressure kPa

61

51

Pump absorbed power kW

0,22

0,22

Water tank capacity l

15

24

Noise pressure level (3) dB(A)

34

36

Hydraulic connections

3/4"

1"

### Dimensions and weight

Height mm

1100

1170

Depth mm

485

540

Width mm

565

670

Weight (4) kg

90

100

- (1) Data refer to nominal conditions: water temperature 12/7°C; ambient temperature 35°C; refrigerant R407C  
 (2) Data refer to nominal conditions: water temperature 40/45°C, ambient temperature 7°C dry bulb, 6°C wet bulb; refrigerant R407C

- (3) Measured in free field conditions at 10 mt. from the front of the unit (at nominal conditions), direction factor Q=2  
 (4) Data refer to empty unit

## CONSTRUCTION OPTIONS

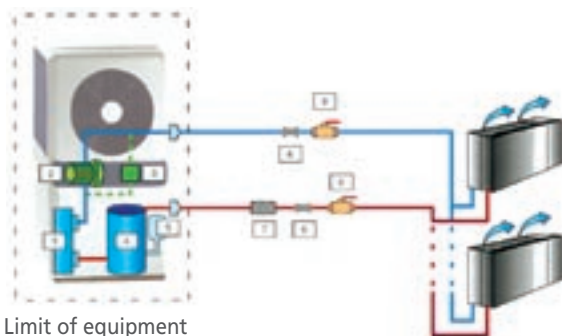
- Anti-freeze protection on evaporator and reservoir tank
- R22 refrigerant (available on request according to UE 2037/2000 std)
- Production of glycol water mixture at low temperature (down to - 8°C) CRAT only (\*)

(\*) on request

## OPTIONS

Units can be supplied with the following construction options:

- Remote user terminal (up to 30 metres) for:
  - display / entering of commands
  - display unit status and alarms



### Legend:

- 1 Heat exchangers
- 2 Water circulation pum
- 3 Water flow differential pressure switch
- 4 Reservoir tank
- 5 Expansion tank
- 6 Rubber antivibranti gasket
- 7 Metal filter
- 8 Interception valve