

# Чиллеры с водяным охлаждением CAPchiller

## Технические характеристики

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# CAPchiller

WATER-COOLED CHILLER FOR VERY HIGH FLOW APPLICATIONS

- High precision of key parameters (water temperature, pressure, flow rate)
- Plug & Play application
- Autoadaptive

CAPchiller has been designed based on the performance requirements of machines producing caps and medical products and all applications requiring very high temperature accuracy, high water flow rates in relation to cooling capacity and high pressures.

Typically, this performance is not met by products with standard components unless they include very large tanks and external process pumps.

The CAPchiller designed by Thermal Care, on the other hand, is a plug-and-play solution: it is equipped with modulating compressors that allow the cooling capacity to be adapted to the thermal load required by the user, and a booster process pump with inverter that follows the application requirements in terms of pressure and water flow. Thanks also to the very compact double circuit, process stability is ensured even at partial loads.

Not available in: CN, HK, MN, KR, JP, VN, KH, TH, LA, MY, PH, ID, MM, FJ, MO

# CAPchiller



## WATER COOLED CAP CHILLER

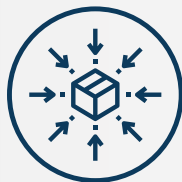
The PCW chiller range is designed for CAP and other high flow application, especially for one chiller vs. one IMM and assures maximum flexibility and energy efficiency.

### Benefits

- Flexible application: water condensing temperature from 17°C up to 40°C
- Eco-compatible: green refrigerant R410a
- Reduce energy absorption and lower noise levels: inverter compressors saving up to 30% energy in comparison to traditional chillers
- Compact design: compressor, tank, pump and heat exchanger are all internal design. Very small footprint for easy installation.



Inverter compressor reduce energy absorption and lower noise levels



Accurate water temperature control:  $\pm 0.5^{\circ}\text{C}$



Extremely large process water flow



PET Preforms & Bottles



Rigid Packaging



Automotive components



Technical parts



Medical solutions



Thermoforming & Technical Sheets



Flexible Film



Pipes, Profiles, Cables



Fibres & Strapping



Recycling



Compounds

**Cooling mode** PCW0211-0611

**Cooling capacity** 23 to 60 kW



Scroll compressor with inverter



Stainless-steel booster pump optional inverter



Color touch screen interface

| Model             |               |                   | PCW0211                             | PCW0411  | PCW0611  |
|-------------------|---------------|-------------------|-------------------------------------|----------|----------|
| Cooling capacity  |               | kw                | 23                                  | 45       | 60       |
| Compressor        | Quantity      |                   | 1                                   | 1        | 1        |
|                   | Type          |                   | Scroll compressor (Varial speed)    |          |          |
| Refrigerant       | Type          |                   | R410a                               |          |          |
| Evaporator        | Type          |                   | AISI316 Brazed plate heat exchanger |          |          |
|                   | Joint size    |                   | 2 inch                              | 2.5 inch | 2.5 inch |
| Condenser         | Type          |                   | Shell-and-pipe heat exchanger       |          |          |
|                   | Joint size    |                   | 1.25 inch                           | 2 inch   | 2 inch   |
| Tank              | Volume        | L                 | 160                                 | 160      | 160      |
| Low pressure pump | Power         | kw                | 0,37                                | 0,75     | 1,1      |
| Booster pump-MP   | Power         | kw                | 3                                   | 4,4      | 7,5      |
|                   | Water flow    | m <sup>3</sup> /h | 14                                  | 24       | 30       |
|                   | Head pressure | mH <sub>2</sub> O | 36                                  | 40       | 45       |
| Booster pump-HP   | Power         | kw                | 4,4                                 | 7,5      | 11       |
|                   | Water flow    | m <sup>3</sup> /h | 22                                  | 30       | 35       |
|                   | Head pressure | mH <sub>2</sub> O | 43                                  | 45       | 60       |
| Dimensions        | L x W x H     | mm                | 1400 x 840 x 1750                   |          |          |

Cooling condition: Cold water temperature IN/OUT is 12 °C /7 °C; Condenser water temperature IN/OUT is 30 °C /35 °C  
Fouling factor of evaporator: 0.018 m<sup>2</sup>. °C/kw; Fouling factor of condenser: 0.044 m<sup>2</sup>. °C/kw

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