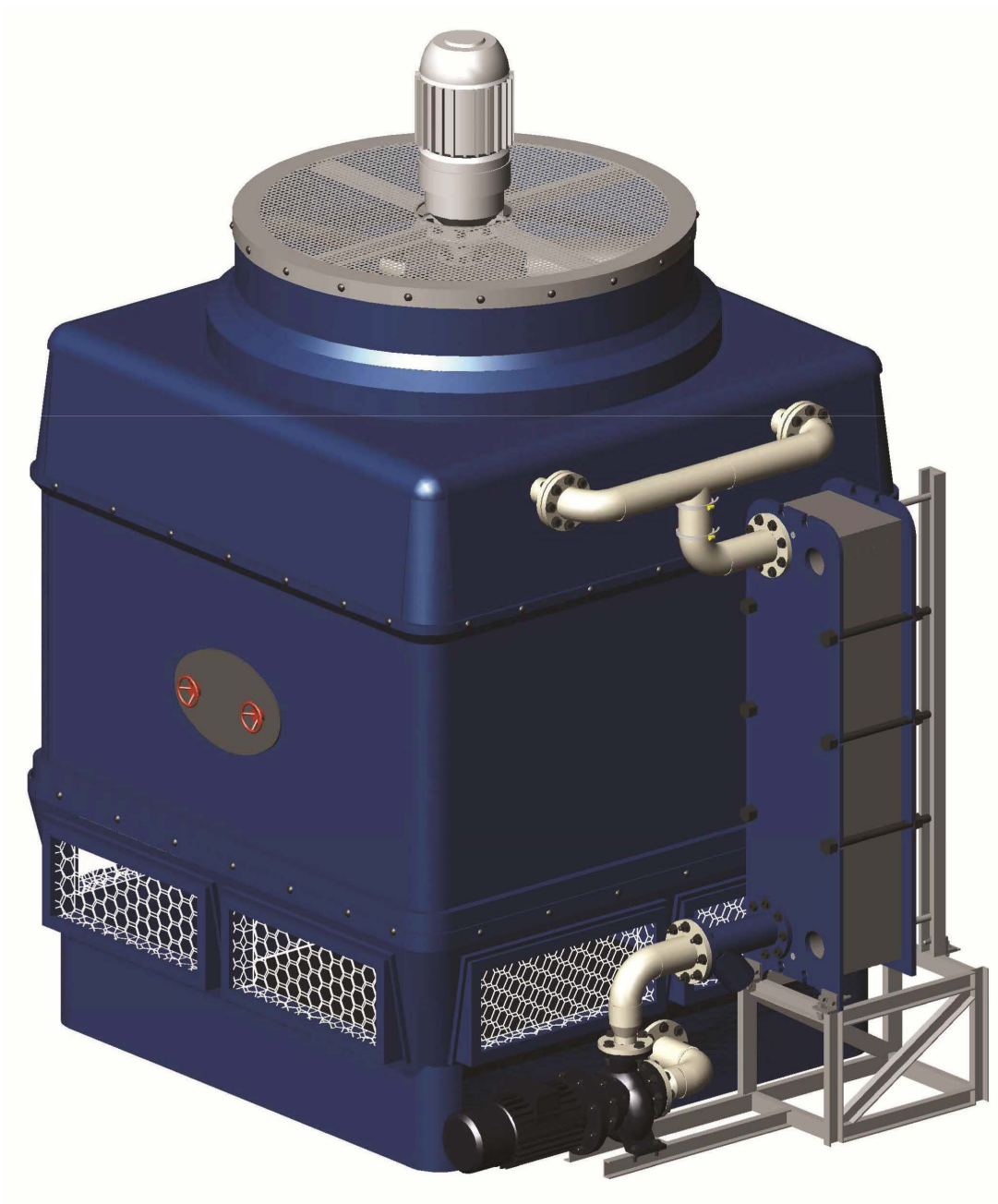


Closed circuit cooling tower type AIR-C-PS



Closed circuit cooling tower type AIR-C-PS

The type Almeco AIR-C-PS is a closed counterflow cooling tower with axial suction fan.

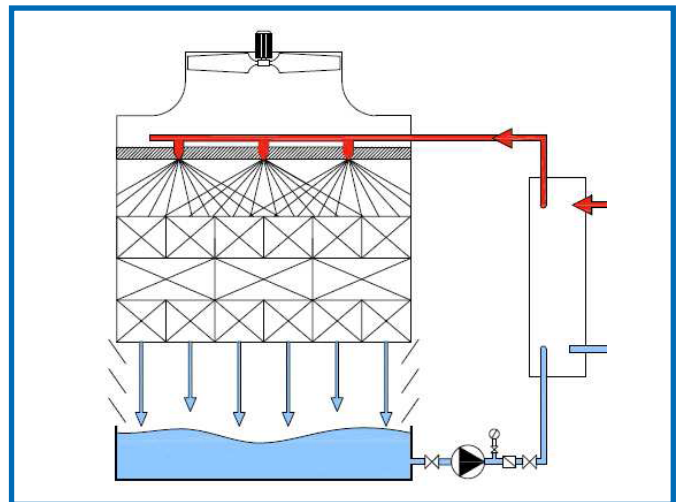
This cooling tower can be used for all applications where the water to be cooled must not come into contact with air. The entire casing of the cooling tower and the water collection basin are made of fibreglass-reinforced polyester, which means that they are completely free of rust. To close the circuit of the water or water/glycol mixture to be cooled, the Almeco-C-PS type uses a plate heat exchanger in stainless steel 316, directly connected to the open cooling tower with pump and pipes in plastic.

Both the individual components and the cooling tower as a whole comply with the Best Available Technology (BAT) and the applicable legionella legislation.

All models of this type are supplied including circulation pump and recirculation circuit for the evaporation water (secondary water circuit) designed in plastic pipes and therefore stainless. All connections between cooling tower and plate heat exchanger and pre-assembled in the factory.

Properties

- This type of closed cooling tower consists of an open cooling tower (type AIR) combined with a stainless steel plate heat exchanger and pump with piping, provided on 1 chassis to close the circuit to be cooled to a closed cooling tower.
- Each cooling tower has 1 motor-fan
- Compact housing made of fibreglass-reinforced polyester
- Materials highly resistant to all aggressive conditions, as well as to extreme temperatures
- High efficiency stainless steel AISI 316 plate heat exchanger
- Air inlet louvers, made of polypropylene
- Y-Filter installed in the secondary circuit to reduce possible contamination of the heat exchanger.
- Highly efficient droplet separator in polypropylene, according to the applicable legionella regulations
- Cooling tower suitable for cooling water up to 80°C (up to 95°C on request)
- Extra options:
 - Full control with monitoring and management of all parts of the cooling tower possible
 - Motor bracket and protective grille in stainless steel 304 instead of hot-dip galvanised steel
 - Access ladder & hand rail to the fan motor
 - Low noise fan and/or silencer on the air outlet side possible
 - Sound-absorbing mat to reduce the noise of falling droplets
 - Vibration switch (vibra-switch) for detecting possible vibrations of motor/fan unit
 - Winter package, thermostat and immersion heater to prevent freezing of the water basin
 - Frequency controller (and motor equipped with PTC, ready for use with frequency controller)
 - Sensors for monitoring the water level in the basin, dry-running protection



Illustrations are for illustration purposes only and may differ.

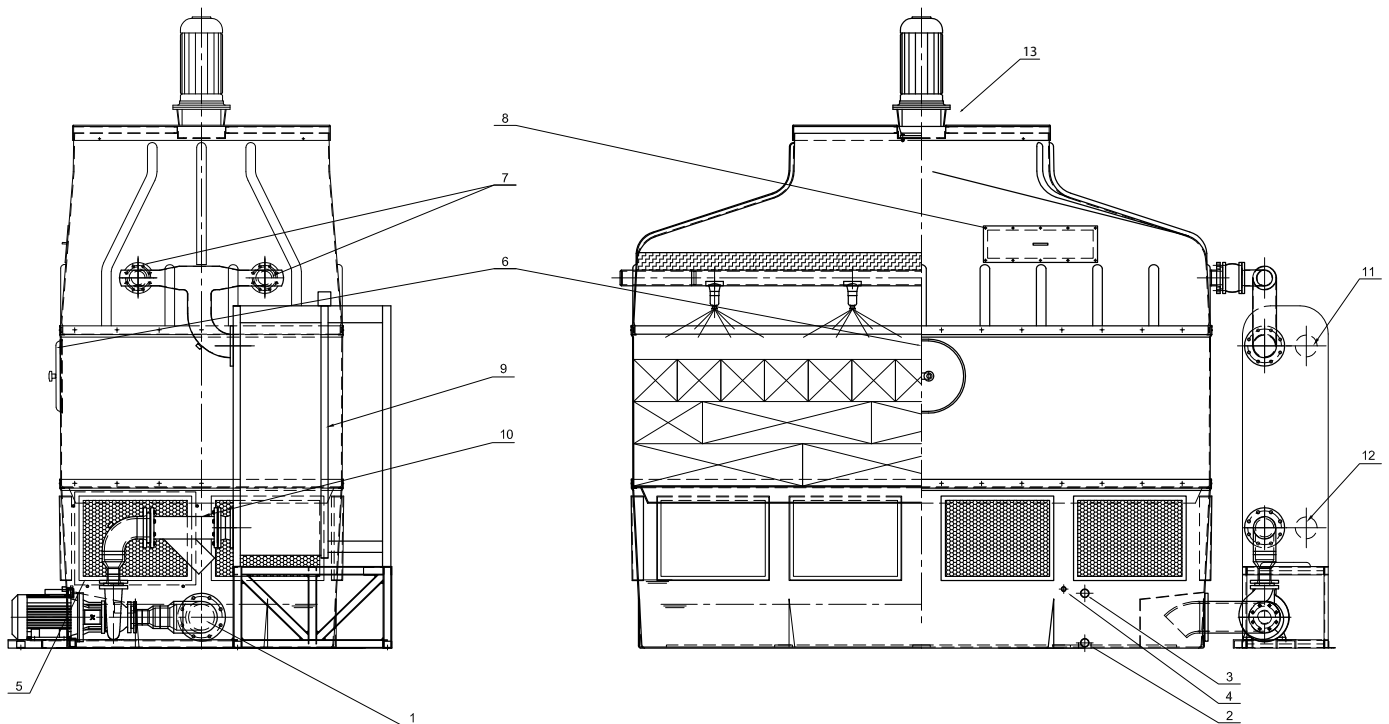
Closed circuit cooling tower type AIR-C-PS

Our advantages

- Solid, corrosion-free FRP-casings
- Use of high quality components such as motors, fans, water distribution, drift separators and packing
- Use of energy-efficient motors IE3 provided for use with frequency controller
- Practical access hatches for easy, fast and safe inspection and maintenance
- Pre-assembled in factory, finishings at site

Your benefits

- Extreme long-lifespan
- Resistant to all aggressive conditions
- Reliable operation of the cooling tower allows high process stability
- In accordance with the applicable legionella regulations
- Low energy consumption
- Low costs of operation
- Easy to manage
- Low maintenance costs
- Assembly takes less time



1. Intake evaporation water
2. Drain water basin
3. Overflow
4. Make up water valve
5. Access hatch for inspection and maintenance
6. Stainless steel inspection hatches

7. Inlet evaporation water
8. Access hatch for drift separator control
9. Heat exchanger
10. Y-Filter
11. Cooled water outlet
12. Water to be cooled inlet

13. Motor-fan

(differences are possible depending on the model)

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ALMECO

info@almeco.be
www.almeco.eu

Almeco Belgium (HQ)

ALMECO NV
Royennestraat 51
B-7700 Moeskroen
+32 (0)56 85.40.80

Almeco The Netherlands

ALMECO NEDERLAND BV
Postbus 32
NL-5550 AA Valkenswaard
+31 (0)40 80.80.000

Almeco France

ALMECO FRANCE SARL
Rue de Luxembourg 67
FR-59777 Euralille
+33 (0)3 28.48.26.68

PCA

info@pcawater.com
info@pcacontrol.com
info@pca-air.com

www.pcawater.com
www.pcacontrol.com
www.pca-air.com

PCA Main office

PCA NV
Wijngaardveld 10
B-9300 Aalst
+32 (0)53 21.33.55

PCA Regional office

PCA NV
Royennestraat 51
B-7700 Moeskroen
+32 (0)56 55.00.90

info@axongroup.com