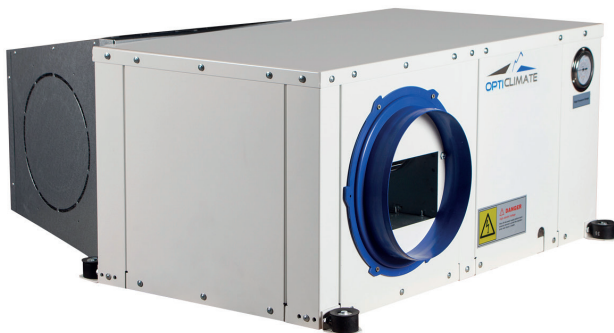


OPTICLIMATE

OPTIMAL CLIMATE CONTROL



The Opticlimate air conditioner is the only true all-in-one solution for indoor climate control. It can cool, heat, dehumidify, filter and circulate the air at the same time.

You are no longer dependent on outside temperature and can create the optimal climate in summer and winter. Even during a heat wave, ideal temperatures are achieved. The OptiClimate ensures optimal air distribution in the room, creating an even temperature.

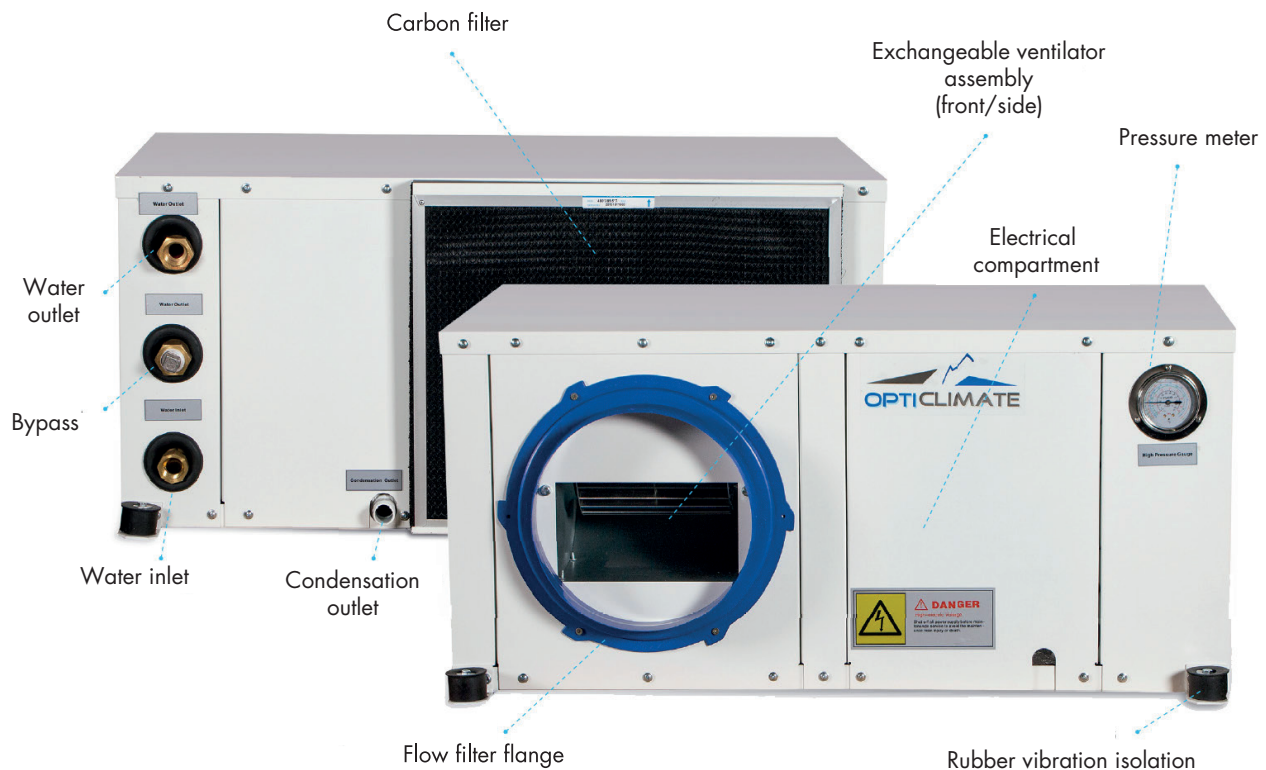
The temperatures can be set to your ideal requirements and maintained continuously.

The OptiClimate is available as a water-cooled or air-cooled version.

PROPERTIES AND FUNCTIONS OF THE OPTICLIMATE PRO3 AND PRO4

- The perfect climate control in summer and winter
- Cooling, warming and dehumidifying the air circulating and filtering in one appliance
- Manual or fully automatic adjustment
- Enter the day and night temperature and the OptiClimate does the rest; it couldn't be simpler
- Light sensor for automatic switching between day and night programme
- Hygrostat for setting atmospheric humidity
- Unique air dehumidification function (with the PRO4, even if the air conditioning does not cool!)
- Dehumidifying possible during the day, night and continuously the safest climate control system
- Relatively low energy consumption
- Easy to install
- Built-in temperature and water leak protection
- Automatic water control valve
- Automatic restart (following power cut)
- The Pre-Heat function ensures a pre-heated room during the transition from night to day
- The Slow Cooldown function ensures that the temperature does not drop too quickly from day to night
- The Cool at night function ensures that even during the night, the room can be cooled (for example, during the summer or in the case of a warm climate)
- Ideal for closed rooms
- The water-cooled OptiClimate has a unique bypass for using tap water or other water sources
- The outdoor unit of the air-cooled OptiClimate is supplied with flexible hoses and quick couplings; no need for an installer
- The 15000 model is also available with inverter technology





OPTIMAL CLIMATE MANAGEMENT WITH **OPTICLIMATE**

The OptiClimate is a climate control system developed entirely on the company's own premises. This results in a completely optimised and efficient product which enables the climate to be adjusted to perfection while consuming as little energy as possible.

The OptiClimate is the only real all in solution for managing your interior climate and has the unique property of being able to cool or warm up or dehumidify, filter and circulate air at the same time. You are no longer dependent on the outside temperature and can experience the perfect climate, in summer and winter. You can even achieve the ideal temperature during a heat wave. The OptiClimate creates an optimal distribution of air in the room creating an even temperature. The temperatures can be exactly adjusted to your wishes and will be continuously maintained.

The OptiClimate is available in water-cooled or air-cooled design. The water-cooled OptiClimate is available in both PRO3 and PRO4 versions. The PRO4 has an extremely powerful and efficient dehumidification function. The 15000 model is also available in inverter technology.

OPTICLIMATE MODELS

WATER-COOLED

The model of OptiClimate water-cooled cools the air using water as a refrigerant and heats by ceramic resistances. The cold water is used to cool the air, which in turn heats the water from 35°C to 50°C. It is ideal for cooling objects near water sources, such as a building next to a canal, a boat house, a yacht, a swimming pool or a greenhouse. The OptiClimate model with water cooling is especially suitable for historic buildings and monuments, where it is not allowed to install outdoor units.



| Type | Connection | Phase* | Power consumption | Cooling capacity | Dehumidifies capacity L/24h** | Cooling water consumption L/min*** | Heating | Dimensions | Weight |
|---------------------|-------------|--------|-------------------|------------------|-------------------------------|------------------------------------|---------|------------|--------|
| 2000 PRO3 | 230V | 1 or 2 | 500W | 2000W | 35 | 0,6 - 1,2 | 2x1300W | 100x50x42 | 53kg |
| 3500 PRO3 | 230V | 1 or 2 | 740W | 3500W | 55 | 1,0 - 2,0 | 2x1500W | 100x50x42 | 57kg |
| 6000 PRO3 | 230V - 400V | 1 or 3 | 1450W | 6000W | 100 | 2,0 - 4,0 | 3x1500W | 115x53x43 | 80kg |
| 10000 PRO3 | 230V - 400V | 1 or 3 | 2150W | 10.000W | 170 | 3,0 - 6,0 | 3x2000W | 115x56x50 | 120kg |
| 15000 PRO3 | 400V | 3 | 3100W | 15.000W | 270 | 5,0 - 9,0 | 3x2700W | 121x70x54 | 160kg |
| 15000 PRO4 Inverter | 400V | 3 | 3100W | 15kW (boost +8%) | 441 | 5-10 | 3x2700W | 121x70x54 | 160kg |

* At two and three-phase connections one heater per phase connected.

** At 80% humidity and an ambient temperature of 30°C.

*** At cooling water temperature of 6° to 20°C.

OPTICLIMATE MODELS

AIR-COOLED

The OptiClimate model air-cooled (Opticlimat Split) works according to the same principle as the version with water cooling. But the OptiClimate Split uses air as a refrigerant, instead of water.

The OptiClimate Split has an outdoor unit that must be installed at a distance of no more than 30 meters. The split unit is delivered with flexible hoses and quick couplings. For the installation, it is not necessary to call a technician. The split unit can also be easily disassembled.



| Type | Connection | Phase* | Power consumption | Cooling capacity | Dehumidifies capacity L/24h** | Heating | Dimensions Int. Unit | Weight Int. Unit |
|---------------------------|-------------|--------|-------------------|------------------|-------------------------------|---------|----------------------|------------------|
| 3500 PRO3 Split | 230V | 1 or 2 | 820W | 3500W | 55 | 2x1500W | 100x50x42 | 50kg |
| 10000 PRO3 Split | 230V - 400V | 1 or 3 | 2390W | 10.000W | 170 | 3x2000W | 115x56x50 | 110kg |
| 15000 PRO3 Split | 400V | 3 | 3500W | 15.000W | 270 | 3x2700W | 121x70x54 | 150kg |
| 15000 PRO3 Split inverter | 400V | 3 | 3500W | 15kW (boost+8%) | 270 | 3x2700W | 121x70x54 | 150kg |

All models are also available in EX (Extended) version.

* At two and three-phase connections one heater per phase connected.

** At 80% humidity and an ambient temperature of 30°C.

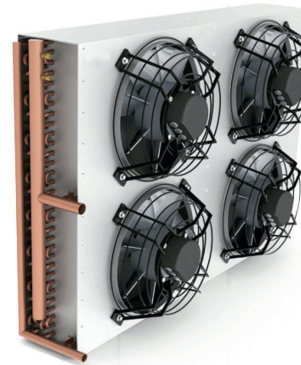
OPTICLIMATE WATER COOLERS

OC COMPACT VERTICAL COOLER

Small and lightweight water chiller, ideal for small spaces in residential and commercial buildings.

- Capacity: from 4,5 to 32 kW
- Tube diameter: 3/8" smooth inner surface (S) and grooved inner surface (R)
- Fin spacing: 2,1 mm
- Fan motor diameters: 350 mm - 4 and 6 poles
- Available number of fan motors: from 1 to 2x3 fan motors

OptiClimates can be connected to one water cooler. The water cooler is a super efficient way to recirculate water or a glycol-mix in a closed loop system. The fan(s) and the circulation-pump are the only parts that consume energy. The water cooler makes it possible to prepare water for the Opticlimate at outside temperatures over 40°C.



| Type | Model | Capacity | Weight | Dimensions | Sound | Power | Fans | Water capacity |
|------------------------|--------------------------|----------|--------|--------------|----------|---------|------|----------------|
| OC Water Cooler 4,5 kW | 1x OC 2000 / 1x OC 3500 | 4,5 kW | 7 kg | 650x410x320 | 28 dB(A) | 0,06 kW | 1 | 2 ltr |
| OC Water Cooler 9 kW | 1x OC 6000 | 9 kW | 13 kg | 1200x410x320 | 31dB(A) | 0,12 kW | 2 | 4 ltr |
| OC Water Cooler 14 kW | 1x OC 10000 / 2x OC 6000 | 14 kW | 19 kg | 1750x410x320 | 33dB(A) | 0,18 kW | 3 | 6 ltr |
| OC Water Cooler 18 kW | 1x OC 15000 | 18 kW | 26 kg | 1200x810x320 | 34dB(A) | 0,24 kW | 4 | 8 ltr |
| OC Water Cooler 32 kW | 2x OC 15000 | 32 kW | 52 kg | 1750x810x320 | 36dB(A) | 0,36 kW | 6 | 21 ltr |



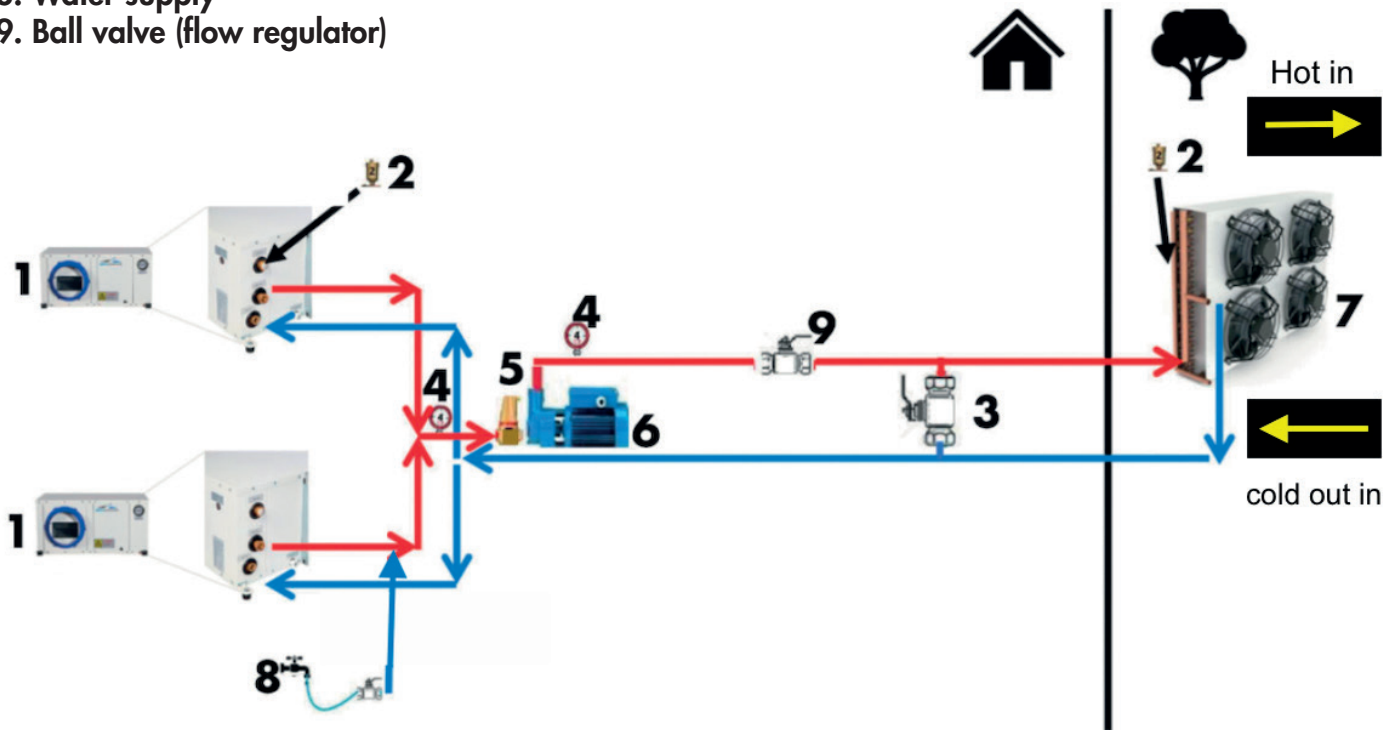
OC INDUSTRIAL WATER COOLER VERTICAL AND HORIZONTAL FORMATS

Solid water chiller, with a large cooling capacity.

- Capacity: from 12 to 32 kW
- 3/8" tube diameter: smooth inner surface and corrugated fin with 2.1 mm spacing for standard models
- Fan motor diameters: 450 mm, 500 mm and 630 mm - 4 poles, 6 poles and 12 poles
- Available number of fan motors: 1

| Type | Model | Capacity | Weight | Dimensions | Sound | Power | Fans | Water capacity |
|---------------------------|--------------------------|----------|--------|---------------|----------|---------|------|----------------|
| OC Water Cooler 12 kW (V) | 1x OC 10000 / 2x OC 6000 | 12kW | 63 kg | 1025x933x600 | 32 dB(A) | 0,27 kW | 1 | 6 lt |
| OC Water Cooler 17 kW (V) | 1x OC 15000 | 17 kW | 76 kg | 1025x933x600 | 32 dB(A) | 0,27 kW | 1 | 11 lt |
| OC Water Cooler 32 kW (V) | 2x OC 15000 | 32 kW | 125 kg | 1600x983x600 | 40 dB(A) | 0,60 kW | 1 | 21 lt |
| OC Water Cooler 32 kW (H) | 2x OC 15000 | 32 kW | 125 kg | 1600x1050x943 | 40 dB(A) | 0,60 kW | 1 | 21 lt |

1. Opticlimate water-cooled (inside unit)
2. Auto bleeder (on highest point)
3. Ball valve (bypass regulator)
4. Manometer
5. Air separator
6. Pump
7. Water cooler (outside unit)
8. Water supply
9. Ball valve (flow regulator)



The system is filled with water or with a water glycol mix to prevent freezing during cold winter days. The water supply (8) must be located at the lowest point of the system. Automatic bleeders (2) must be located at the highest point of the system. A manometer (4) is positioned on both the return and supply side of the pump. The air separator (5) must be located at a location where the pressure in a running-system is the lowest. The set contains two ball valves, one to regulate flow (9) and one for the bypass (3). Air in the system reduces capacity and can damage the pump or heat exchangers. Make sure that the air is bled from the system after filling. Power the pump for a few seconds to bring air to the highest point in the system. After bleeding, let the pump run full power, the air separator will remove any air bubble that remains in the system. This can take a few minutes, hours or even days, depending on the layout of the piping. Make sure the pressure on the suction side of the pump is at least 0,5 bar at all times to prevent pump damage when the pump is running.

When connecting more than one Opticlimate to one water cooler, it's important that pipe resistance (return and supply) for each Opticlimate is the same to prevent uneven water distribution between the Opticlimate's.

When connecting the water line to the cooler, follow the yellow arrow's on the cooler
 Arrow → hot water line from pump
 Arrow ← chilled water to opticlimate's



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