

Chillquick Light

A compact water chiller system
with continuously variable capacity control



Indoor/outdoor
chilled water system
Capacity range 5–20 kW



Industrial processes



Small offices



Retail premises

A safe choice: only pure water is transferred through indoors
Energy-efficiency is based on continuously variable capacity control
Low refrigerant volumes
With its compact size and elegant design, the indoor unit is easy to place indoors
The system is easy to install, and its pipes can be connected quickly

Energy efficient
Meets the
2018 and 2021
Eco Design
requirements



Compact system

The typical applications of the Chillquick Light water chiller systems include small offices, shops and industrial process facilities with a capacity of 5 to 20 kW. The system was developed for applications where a direct expansion cooling system would otherwise be used. With the Chillquick Light solution, only pure water; not refrigerant and glycol, is transferred through premises occupied by people.

Small indoor unit

With this compact system, the pump, buffer tank, evaporator, expansion vessel, automation system and control system are located indoors. Installing the technical components indoors ensures disruption-free operation and prolongs the product's service life.

Hassle-free

The Chillquick Light unit requires very little maintenance, and the maintenance that is required can be carried out indoors. The system is quick and easy to install and commission. The application's cooling pipe system can be, to a large extent, made from sealed ready-made parts instead of soldering. That reduces the need for soldering on-site.

Energy efficient

The Chillquick Light water chiller system's condenser unit is located outdoors. The condenser unit's energy efficiency stems from its continuously variable control of the compressor and the fan.

Functionalities

Options:

Water chiller system, continuously variable control

Standard accessories

Indoor unit

Mechanics

Tank with a drain and bleeder valve
Water circuit inlet
Diaphragm expansion vessel and safety valve
Pipe outlets with threaded connections
Equipped for a 3-way cooling system
Evaporator
EVP (adjustable energy class A pump)
Electronic expansion valve
Refrigerant sight glass
Solenoid valve
Filter drier

Electronics and automation

Control system with a user interface
Pressure transmitter, high and low pressure
Connection locations for external and outdoor unit cables
Control switch
Electric BMS indicators

Outdoor unit

A scroll compressor with continuously variable control
Soundproofing for the compressor and frame
Cu-Al heat exchanger
Oil separator
Non-return and isolating valves for the refrigerant circuit
Sight glasses, compressor and liquid line
Droplet separator
EC fan
Main switch and other electronic safety equipment
Low- and high-pressure switches
Standard colour RAL7035
Safety mesh for the fan and condenser
Heating and thermostat for the machinery room

Additional accessories

Indoor unit

Process equipment (for operations in outdoor temperatures as low as -30°C)
Control system with an extended user interface
Equipped for a 2-way valve cooling system
Temperature- or dew point-controlled circuit
Frequency converter pumps
BMS connections

Outdoor unit

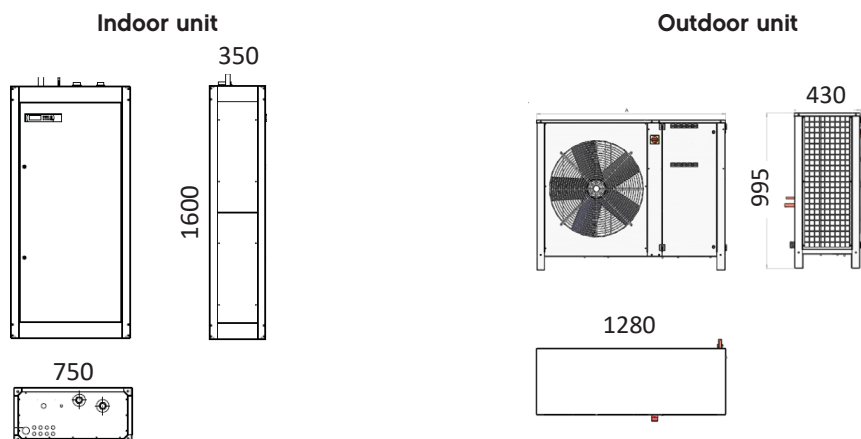
Process equipment (for operations in outdoor temperatures as low as -30°C)

Performance values

Machine size	4	6
Cooling capacity kW	12	17
Capacity control	Variable	
Number of refrigerant circuits	1	1
Indoor unit		
Supply A V-Ph-Hz	10 A 230-1-50	
Input power kW*	0,4	0,4
Pipe outlets, water circuit	R 1-1/4 external thread	
Outdoor unit		
Supply A V-Ph-Hz	20 A 400-3-50	
Input power kW	3,6	6
Sound level dB(A)**	37	39

Performance values at various temperatures: water $7/12^{\circ}\text{C}$, outside air 30°C
*) Input power when the machine is operating at full capacity
**) Sound pressure in an open area at a distance of 10 m

Dimensions



More detailed dimension drawings are available in the selection program