

Chillquick Reco

Ideal solution for simultaneous heating and cooling



Indoor installed
water chiller
Capacity 500-1300 kW

Simple and efficient energy reuse with heat recovery
Continuously variable technology for excellent energy efficiency
Future-proof refrigerant options
Industrial voltage levels available

Optimizes energy flow

Chillquick Reco is an energy efficient water chiller solution for industrial, commercial and public buildings.

It is especially suitable for medium and large applications with simultaneous heating and cooling needs.

With heat recovery, energy from the cooling source can be reused for heating easily and efficiently.

Life cycle services

We care for our equipment throughout their lifecycle. ServiceNext lifecycle service enables IoT-based monitoring and performance optimization of the device throughout its life cycle, and combines it with the manufacturer expert services.

Energy efficient

The continuously variable capacity control ensures that the cooling capacity always meets the cooling demand. This improves energy efficiency, especially at partial loads. Number of starts decreases, electrical power needed for start up is lower, and the power factor is improved.

In applications where low condensing temperatures can be used, efficiency can be further improved with the compression ratio optimization system.

Combining continuously variable capacity control and heat recovery results in maximal energy efficiency in all operating modes



Industry



Hospitals



Hotels, spas

Energy efficient

Complies with
Eco Design
requirements
2018 and 2021



Reliable and versatile

Units can be delivered compatible for industrial voltages.

Refrigerants for the application are future proof, such as R1234ze, R513A and R134a.

Water circuit accessories, automation and electrical options can be tailored for the application's needs. The unit can be delivered with or without heat recovery option. If required, the compressors can be step capacity controlled.

Delivery content can be tailored according to site requirements in Option selection program.

Functions

Options:

Water chiller with heat recovery, continuously variable capacity control

Water chiller, continuously variable capacity control

Water chiller

Standard delivery

Refrigerant circuits: Two separate refrigerant circuits

Compressors: Continuously variable capacity control, compact screws, integrated oil separators, oil filters, oil heaters, temperature and over-current protection.

Heat exchangers: Tube heat exchangers, both ends can be opened for service. Two separate condensers.

External setpoint: 0-10 VDC signal

Electronic expansion valves

Sequence and phase loss monitoring

Flow switch

Accessories

Automation

RTU Modbus RTU connection

TCP Modbus TCP/IP connection

BAC Bacnet connection

SN Service Next- monitoring system

EP Remote user interface

STC Step capacity control

MSC Master/Slave automation

GCC Group controller automation

TCV TCV-valve control

PUC evaporator & condenser pump control

KT Kiotronic refrigerant leak detection

Electrical

VL Connectors for aluminium cable

VVA Power supply surveillance

CE2 Power factor correction

CE3 Soft starters

PWS Part winding starters

U7 special voltage

Sound & vibration

CR Sound shells for compressors

VD vibration damping kit
(inc. dampers for unit and piping)

Pipe connections

DIN DIN -flanges

Refrigerant

1234ze - GWP (AR5) 1, refrigerant class A2L

R513A - GWP (AR5) 573, refrigerant class A1

R134a - GWP (AR5) 1300, refrigerant class A1

Other

CRV Compressor service valves

PI Mechanical pressure gauges

CNI Condenser insulation

LTM Low cooling version (5...-10°C)

TCV Condensing pressure control valve

PCVE Pressure controlled water valve

YH/AH Special evaporator

YL/AL Special condenser

DSV Double safety valve with switchover

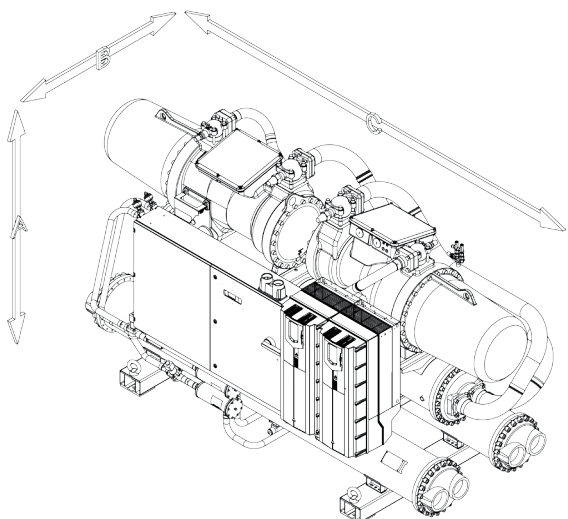
KTO special recovery temperature
(over 63°C)

Technical data

Unite size	Frame	Cooling mode (kW)			Recovery mode			Pipe connections		Weight kg
		Cooling	Condensing	Input	Cooling	Recovery	Input	Cooling	Condensing recovery	
		kW	kW	kW	kW	kW	kW	victaulic	victaulic	
160	1	549	701	160	452	635	193	6"	5"	3800
180	1	579	741	170	477	678	211	6"	5"	4500
210	2	727	940	224	596	867	285	6"	5"	4700
250	2	880	1117	250	726	1013	306	8"	6"	5200
310	3	1022	1296	288	839	1170	348	8"	6"	6500
380	3	1280	1642	381	1090	1535	468	8"	6"	6800

Cooling mode: 12/7°C water. 36/43°C EG35%

Dimensions



Frame	A	B	C
1	1900	1450	3800
2	2050	1550	4300
3	2150	1550	4600

Detailed dimensional drawings in
Option selection program