SELECT 3.0

Chiller

INDICATIVE PRODUCT IMAGE

Needed Data for selection

Ambient Temp.	32 °C
Tin/Tout water	-2 °C
Requested capacity	10500 W

Search results

Total capacity	10434 W
Tolerance	-0.6 %

Product file

Code	CH10P145A2
Range	CH
Noise	49.8 dBA 10 m
Application	MBP
Refrigerant	R290
Net weight	309 kg
Carica gas	1.4 kg
PED	2
Expansion	Valve
Condensation	Air
Evaporation	glycolated water
Propylene glycol	35%
Mass flow hydraulic pump	2.3 m³/h
Available pump head	3.36 bar

Dimensions

Width L	1680 mm
Depth P	830 mm
Height H	1400 mm

Pipe fittings

Diameter out glycol	1 1/4"
Diameter in glycol	1 1/4"

PS

PS Gly	6 bar
PS high pressure side	28 bar
PS low pressure side	14 bar

Absorptions

Power consumption	6000 W
Current consumption	12.3 A

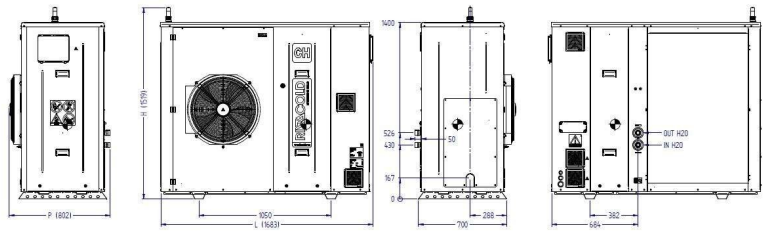
Condenser

Fan-motors no.	1
Diameter	450 mm

Compressor

Type	Scroll
Compressors no.	1
Brand	COPELAND
Voltage	400/3/50
Displaced volume	21.4 m³/h

Technical data - CH10P145A2



Refrigerating capacity table (W) - CH10P145A2

TA/Tin-out acqua	-4°C/-8°C	-2°C/-6°C
25 °C	10422	11140
32 °C	9758	10434
38 °C	9147	9787

Values referred to :
Superheat : 20 K
Subcooling : 5K
Compressor absorption :
Te -10°C (HBP/MBP); Tcond +50°C

INDICATIVE PRODUCT IMAGE

GENERAL FEATURES

MAIN COMPONENTS MECHANICAL PART
- Chiller R290 for medium temperature applications with a scroll compressor Copeland
- Crankcase heater
- Vibration dampers on discharge and suction
- Air cooled condenser
- Electronic condenser fan motors
- Plate evaporator R290- propylene glycol 35%
- Intermediate liquid/gas plate exchanger to increase efficiency (approx. 3%)
- Carel electronic thermostatic valve
- Compact circuit designed to minimise the R290 charge
- Safety pressure switches

HYDRAULIC CIRCUIT
- Hydraulic pump
- Flowmeter to measure the flow and calculate the COP precisely
- Check valve in discharge
- Y filter to protect the hydraulic circuit from impurities
- Pump discharge and suction pressure gauges
- By-pass valve
- 6 bar safety valve

CONTROL CIRCUIT AND ELECTRIC PART
- ATEX certified high and low pressure probes
- Safety pressure switches on the high and low pressure side, compliant with the PED Directive
- Refrigerant and hydraulic side temperature sensors
- ATEX certified air extraction fans
- High and low pressure side R290 circuit safety valves
- Electric current transformer to measure the absorption in real time

ELECTRONIC CONTROL
- Riv-olution: programmable electronic control with software developed by Rivacold
- Leak Detector functions and pressure thresholds designed for safe operation
- Possibility of BMS connection
- PGD Display
- Networked units with Master & Slave control
- Innovative R290 circuit by-pass system to prevent the formation of ice on the glycol side and guarantee operating stability

STRUCTURE
- Frame and housing made of painted sheet metal
- Easily removable housing for quick access to the components in case of inspection or maintenance

OPTIONAL EXTRAS
- Gas Detector
- Cataphoresis treatment of the condenser
- Flow rate adjustment valve (models can be selected according to the system characteristics)
- Shut-off valves
- IOT - remote monitoring and control service (2G).
- Remote control panel kit with touch display
- * for information on these accessories, please contact the technical office