



INDICATIVE PRODUCT IMAGE

### Needed Data for selection

Ambient Temp.	32 °C
Tin/Tout water	-2 °C
Requested capacity	8500 W

### Search results

Total capacity	8578 W
Tolerance	0.9 %

### Product file

Code	CH08P145A2
Range	CH
Noise	47.5 dBA 10 m
Application	MBP
Refrigerant	R290
Net weight	291 kg
Carica gas	1.3 kg
PED	2
Expansion	Valve
Condensation	Air
Evaporation	glycolated water
Propylene glycol	35%
Mass flow hydraulic pump	1.9 m³/h
Available pump head	3.69 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	5000 W
Current consumption	11.2 A

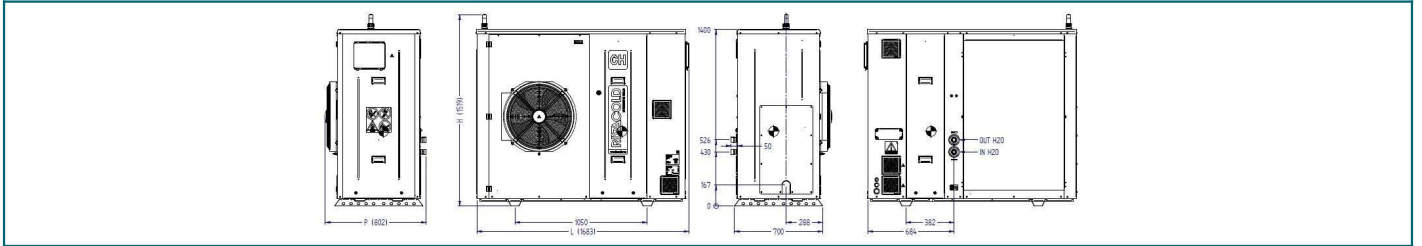
### Condenser

Fan-motors no.	1
Diameter	450 mm

### Compressor

Type	Scroll
Compressors no.	1
Brand	COPELAND
Voltage	400/3/50
Displaced volume	17.1 m³/h

## Technical data - CH08P145A2



**Refrigerating capacity table (W) - CH08P145A2**

TA/Tin-out acqua	-4°C/-8°C	-2°C/-6°C
25 °C	8529	9120
32 °C	8006	8578
38 °C	7518	8059

**Values referred to :**

Superheat : 20 K

Subcooling : 5K

Compressor absorption :

*Te -10°C (HBP/MBP); Tcond +50°C*



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## 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

- Rivolution: 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