

AHP 2.0

REVERSIBLE AIR HEAT PUMP



ZPAS

solutions for connections



AHP 2.0 REVERSIBLE AIR HEAT PUMP



**SZD outdoor cabinet
with AHP 2.0 in the horizontal version**



**SZD outdoor cabinet
with AHP 2.0 in the vertical version,
installed on the side panel**

The second-generation AHP 2.0 reversible air heat pump is a precision air-conditioning unit with a heating function. An advanced control algorithm for the fans, compressor and expansion valve maintains the set temperature in the air-conditioned telecommunications cabinet while minimising the consumption of electricity. The control algorithm adjusts the pump operating parameters in real time according to the amount of heat emitted by the active equipment in operation.

Starting up a heat pump, unlike standard air-conditioner cooling solutions, does not require a large inrush current and does not cause interference with the mains supply.

A very important operating parameter to consider when designing a heat pump is the sound level. The introduction of speed-controlled fans has made it possible to reduce the operating sound at night and whenever the pump starts and stops. This is especially important for its use in urban areas.

The AHP reversible heat pump comes in horizontal and vertical versions. In each, the design is optimised to occupy as little space as possible. The ease of connection and installation allows the pump to be used in cabinets or telecommunications containers.

Heating is also done by thermodynamic process and is therefore more economical than using electric heaters. The fact that a single unit performs both cooling and heating functions is also significant. This allows the control to be coordinated and avoids both processes being switched on too frequently.

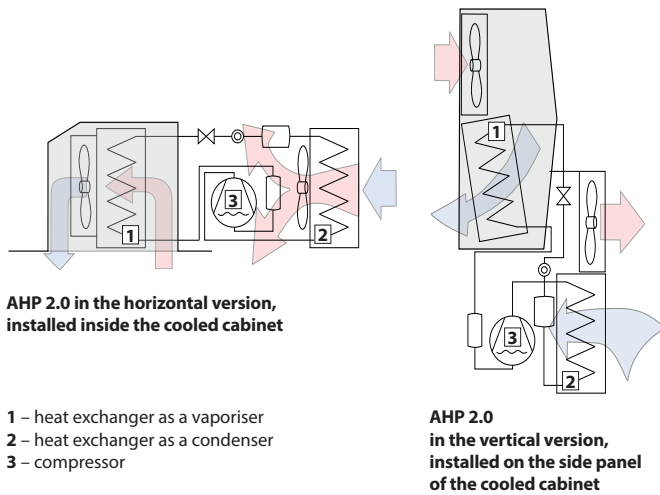
The heat pump controller has remote communication capability, allowing the operation of the unit and the conditions inside the air-conditioned cabinet to be monitored at all times. In this way, service costs can be reduced and failures can be prevented.

Technical data

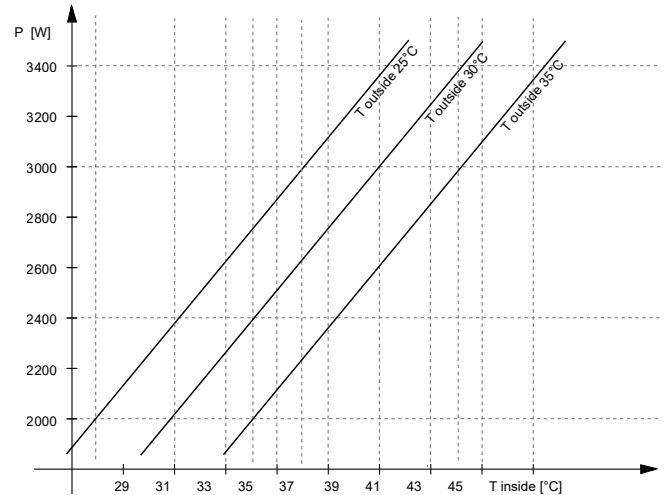
Cooling capacity A35A35	2400 W
Cooling capacity A35A50	2000 W
Heating capacity	2500 W
Power supply	230 V, 50 Hz
Maximum current input – cooling	3.5 A
Maximum current input – heating	6 A
Power consumption A35A35	1400 W
Operating time	24/7
Amount of agent R134a	0.8 kg
Maximum pressure	42 bar
External fan	1200 m ³ /h
Internal fan	1200 m ³ /h
Sound level of the device	54 dB
Colour	RAL 9005 / RAL 7035
Operating temperature	from -20 to +42 °C
Set temperature range	from +10 to +50 °C
Weight	50 kg
Protection degree in accordance with EN 60529	IP 21/55
Communication	Ethernet (local) RJ45 HTTP, FTP, SNMP

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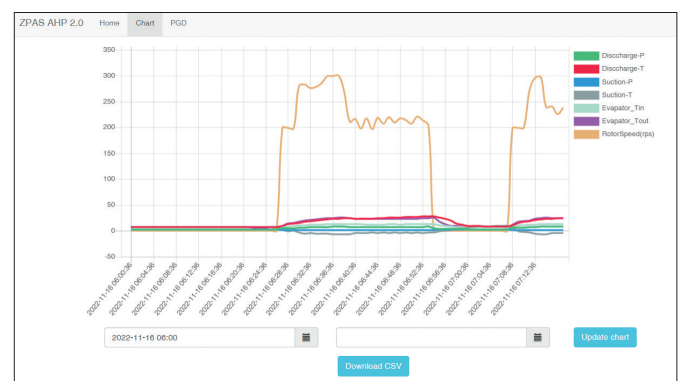
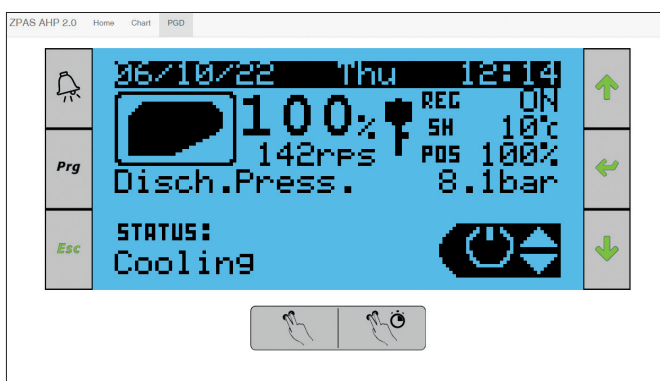
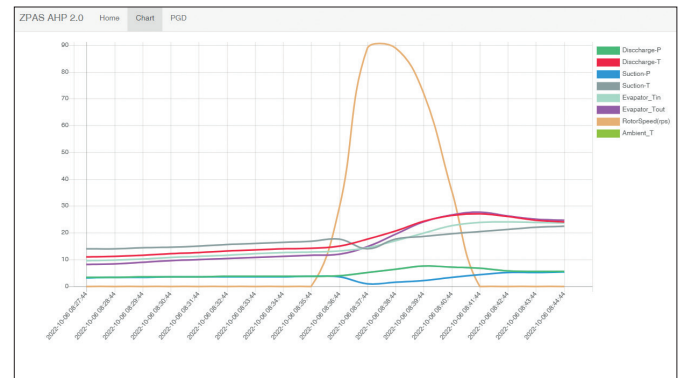
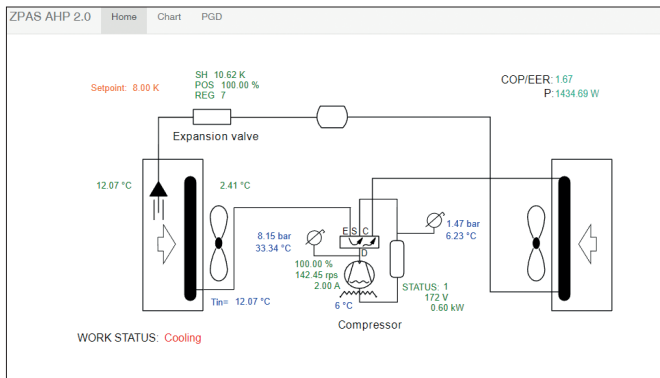
Cabinet cooling circuit



Capacity

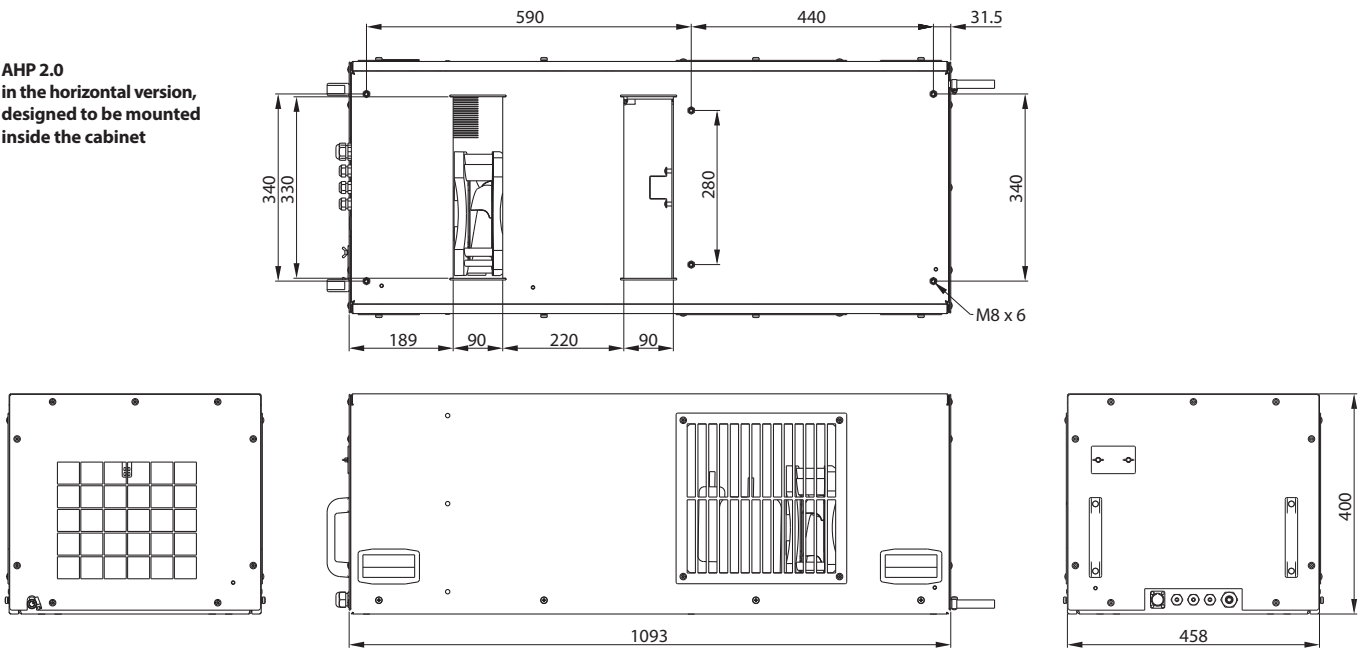


An example of remote unit monitoring and control



AHP 2.0 REVERSIBLE AIR HEAT PUMP

AHP 2.0
in the horizontal version,
designed to be mounted
inside the cabinet



AHP 2.0
in the vertical version,
designed to be mounted
on the side panel of the cabinet

