AHP 7.0

REVERSIBLE AIR HEAT PUMP

ZPAS

solutions for connections

AHP 7.0 REVERSIBLE AIR HEAT PUMP

AHP 7.0
front view

The AHP 7.0 heat pump is a modern monoblock heating and cooling unit. With its power range, it goes beyond the requirements of standard ICT cabinet. It was designed for facilities requiring heat dissipation of up to 7 kW due to its reversibility, the power range also applies to the heating function.

We realize that customers' infrastructure is exposed to both outside and inside changing conditions . The varying in time loads of the supervised equipment, changing weather conditions, expansion of the infrastructure result in the variable demand for heat pump operation. The AHP 7.0 solution was designed to have the ability to adjust its output to the existing conditions. This has been achieved through the use of an inverter compressor, electronic expansion valve and speed-controlled fans. The solution is controlled by dedicated algorithms. Based on continuous measurements, it controls the components in such a way that, while optimizing power consumption, the best conditions for the supervised equipment are obtained in a tracking manner.

This device guarantees precise temperature maintenance with minimal noise emissions, thanks to its continuous regulation of heating and cooling power in the range from 4 to 7 kW.

Another important element is the reduction of noise emissions. The use of innovative sound-absorbing materials makes it possible to install the AHP 7.0 device in densely built-up urban areas, which has been confirmed by an external testing unit.

Based on years of experience in manufacturing and servicing heating and cooling equipment, these units are easy to be serviced and remotely diagnosed. Access to the device is provided through a proprietary monitoring and management system, which allows remote setting of operating parameters, archiving of incidents and prediction of potential failures based on monitored operating parameters. The built-in management system significantly reduces potential operating and service costs.

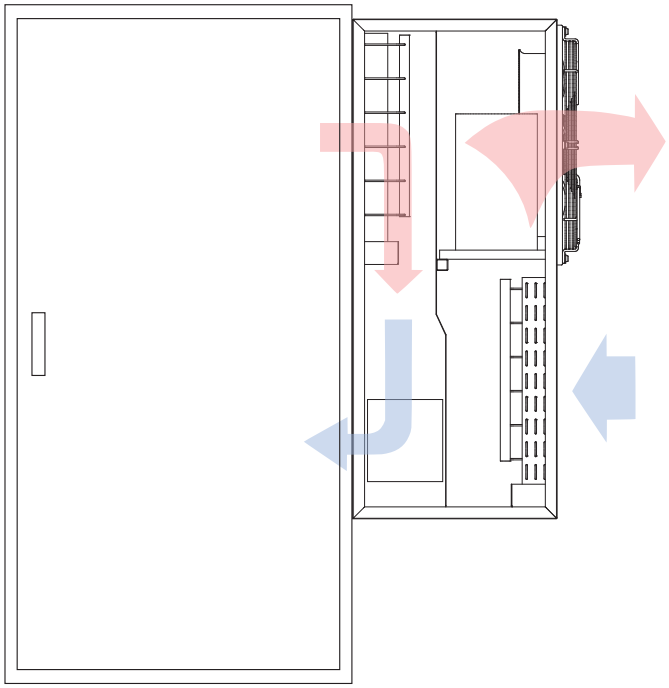
The AHP 7.0 heat pump can operate in a redundant system and in parallel operation, allowing for doubling the power. It ensures optimal climatic conditions for equipment used in telecommunications (telecommunications cabinets and containers) and in energy storage.

AHP 7.0
rear view

Acoustic
shield

REVERSIBLE AIR HEAT PUMP AHP 7.0

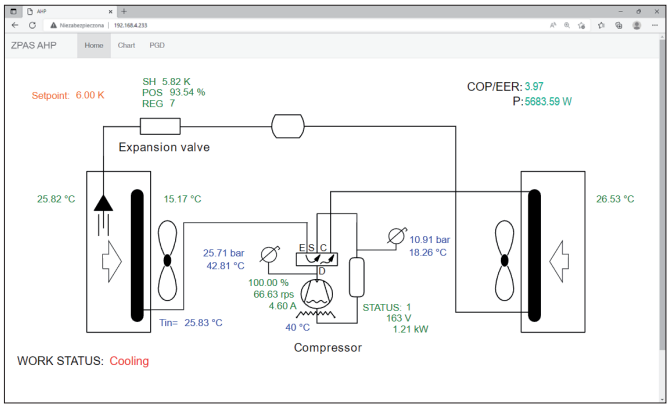
Cabinet cooling circuit

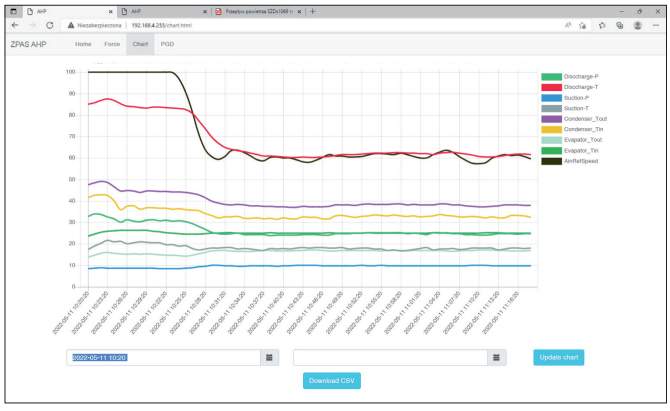


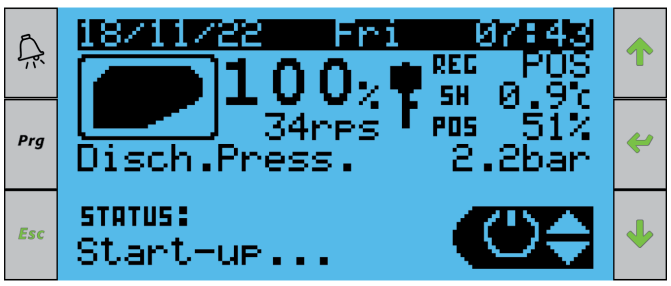
Technical data

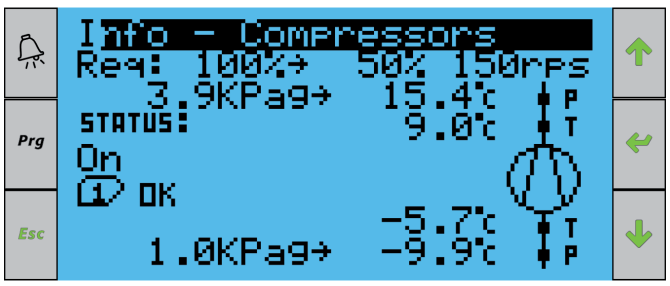
Cooling capacity A35A35	7 kW
Cooling capacity A35A50	6.5 kW
Power supply	230 V, 50 Hz
Heating capacity	9 kW
Maximum current input	14 A
Power consumption A35A35	3.5 kW
Operating time	24/7
Amount of agent R134	2.75 kg
Maximum pressure	23 bar
External fan	2400 m^3/h
Internal fan	1200 m^3/h
Maximum sound level of the device	59 dB
Colour	RAL 7035
Operating temperature	from -15 to +50 °C
Set temperature range	from +5 to +50 °C
Weight	90 kg
Protection degree acc. to EN 60529	IP 21/55
Communication	Ethernet (local) RJ45
Supported protocols	HTTP, FTP, SNMP

An example of remote unit monitoring and control









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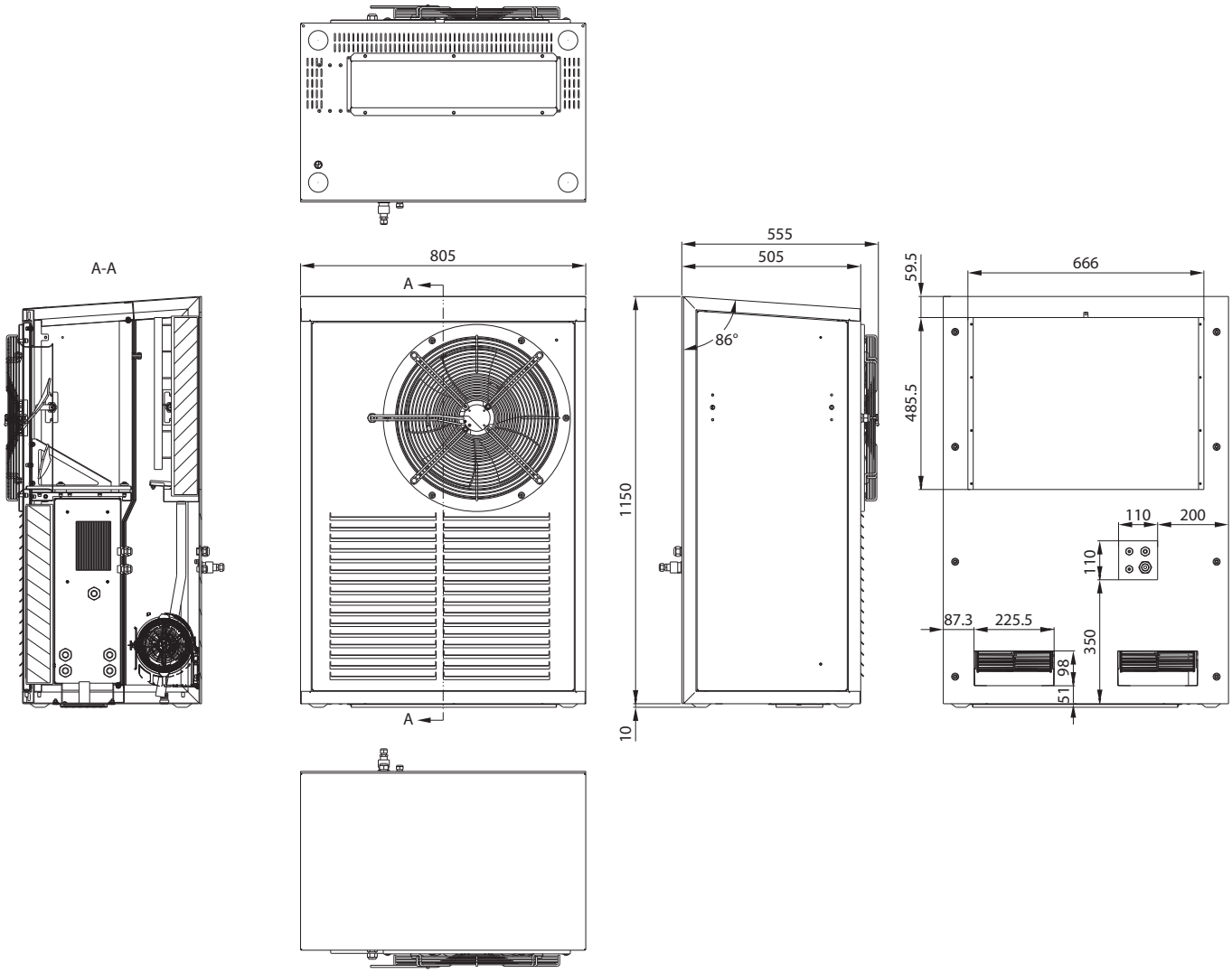

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