



THE CONTROL CABINET AIR HEATING UNIT

SAU-BOX-AVN-W

- + SIMPLICITY OF OPERATION
- + AFFORDABLE PRICE
- + MINIMUM PRODUCTION TIME (ITEMS FROM THE WAREHOUSE)

FUNCTION OF CONTROL CABINET:

- + fault protection and overloads in circuits;
- + connection to the dispatching system;
- + kstatus monitoring of AVN-W of the RS-485 circuit, ModBus-RTU protocol;
- + temperature maintenance in the coverage area AVN-W by room temperature sensor by changing the amount of coolant supplied;
- + temperature maintenance in the coverage area AVN-W by the room temperature sensor by changing the productivity of the fan;
- + connection to the fire safety system;
- + ability to control the unit AVN-W from external normally closed contact.

SAU-BOX-AVN-W-1-1

- control cabinet
- water unit of air heating
- control scheme
(1 - temperature maintenance by changing the amount of coolant supplied;
2 - temperature maintenance by changing the productivity of the fan)
- type AVN-W (connection of power to 220 V, 1 ph)

The control cabinet regulates the operation of the AVN-W air heating units. Standard cabinet can control the operation of one unit. The housing of the control cabinet of air heating units has a degree of protection IP54. Housing material - plastic. Standard temperature sensor is included in the scope of supply.

Depending on the selected control scheme, the air heating units AVN-W can be provided TWO CONTROL ALGORITHMS

The control algorithm for scheme "1"

The control cabinet for air heating units SAU-BOX-AVN-W provides protection, control, indication, dispatching of the air heating unit with water heater by controlling the drive on the coolant valve. The productivity of the valve on the heating medium is determined automatically by the PID control according to the temperature sensor (supplied).

The control algorithm for scheme "2"

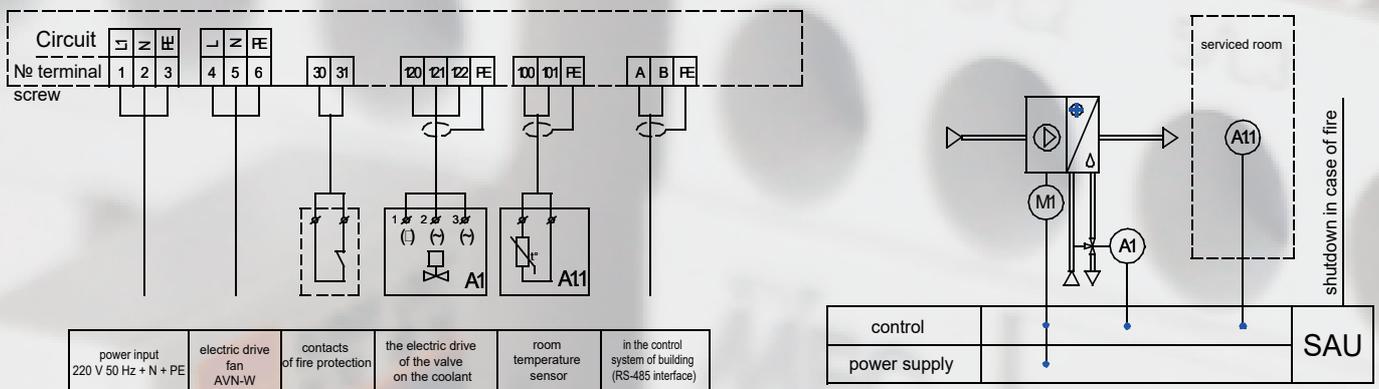
The control cabinet for air heating units SAU-BOX-AVN-W provides protection, control, indication, dispatching of the air heating unit with a water heater by changing the productivity of the fan. The fan output is automatically determined by the PID control according to the temperature sensor (supplied).

The provided possibility of integrating the SAU-BOX-AVN-W into the dispatching system makes it possible to control an unlimited number of units at large facilities. The dispatching system is a modern solution for the design of control systems for air units, ventilation systems, high-temperature water supply and others. Using of the SAU-BOX-AVN-W with the possibility of integration into the dispatching system allows reducing costs for cable products, mounting and maintenance. It is necessary to mount the SAU-BOX-AVN-W:

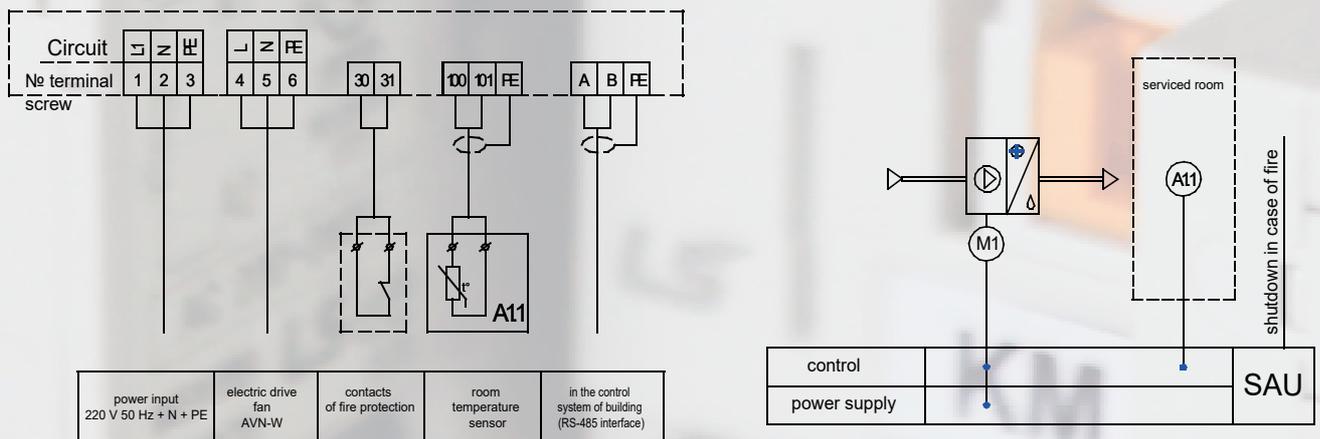
1. to fix the cabinet SAU-BOX on the unit AVN-W;
2. to supply power to the SAU-BOX-AVN-W (220 V, triple wired conductor);
3. to connect the temperature sensor (screened double-wired conductor);
4. to connect the fire safety system (double-wired conductor);
5. connect to the dispatching system (RS-485 interface, ModBus-RTU protocol, one twisted pair);
6. to connect the coolant drive and fan assembly AVN-W (SAU-BOX-AVN-W is installed on the unit, the maximum length of the conductor to connect up to 2 m).

Thus, had performed six simple steps for mounting, the resulting control cabinet for the air heating units SAU-BOX-AVN-W is ready for operation and control.

SCHEME 1. WITH THE REGULATING ELECTRIC DRIVE



SCHEME 2. WITHOUT A REGULATING ELECTRIC DRIVE



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ATTENTION! PRODUCTION IS SUPPORTED BY THE STOCK
 INFORMATION ON AVAILABILITY CHECK WITH THE MANAGER



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