Technological water heating unit

The technological water heating unit (TWHU) is designed to distribute the flow of fresh industrial water with the innovative development of the inductive-conductive electric heater "TERMANIK-COMPLEX-320". Water heating is carried out in the technological pipeline using an intermediate coolant (a mixture of water with ethylene glycol).

To heat the coolant, inductive-conductive electric heaters are used, which are reliable, autonomous and do not require constant supervision. Heating of the pipeline is carried out by an intermediate coolant through a heat exchanger. In TWHU there is an automatic control system (ACS) that controls the operation of heating equipment. This unique unit has a heating efficiency of up to 98%.

CHARACTERISTICS

TWHU building in block-modular design.

Technological equipment

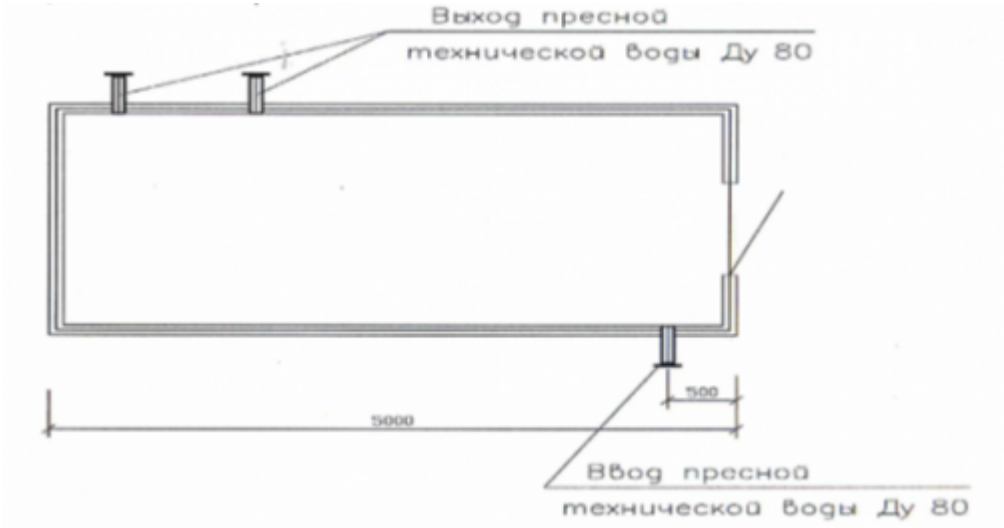
- inductive-conductive electric heater "TERMANIK" - 2 pcs;
- control cabinet - set;
- instrumentation and control devices;
- circulation pump Wilo of the internal circuit - a set (working, reserve);
- heat exchanger - set;
- pipeline and stop valves - set;
- expansion tank - 1 pc;
- heat-insulated storage container - 1 pc.

Figure 1 - Inductive-conductive electric heater "TERMANIK"

Specifications:

- maximum electric power - no more than 335 kW;

- rated thermal power - 0.276 Gcal/h;
- maximum pressure in the heating network - 0.6 MPa;
- maximum allowable coolant temperature - plus 115°C;
- diameter of outlet pipes - DN 50;
- type of heaters - inductive-conductive;
- operating voltage - 380 V;
- efficiency - not less than 98%;
- coolant - a mixture of water with ethylene glycol.



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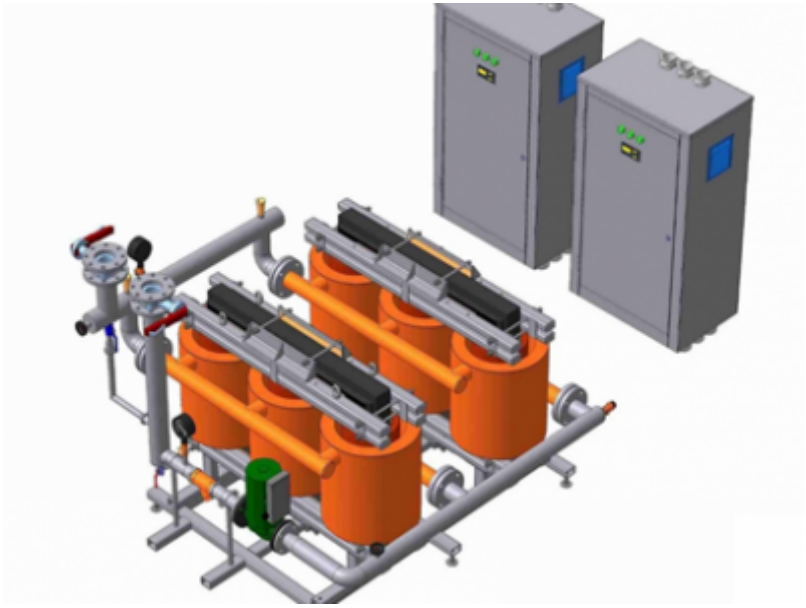
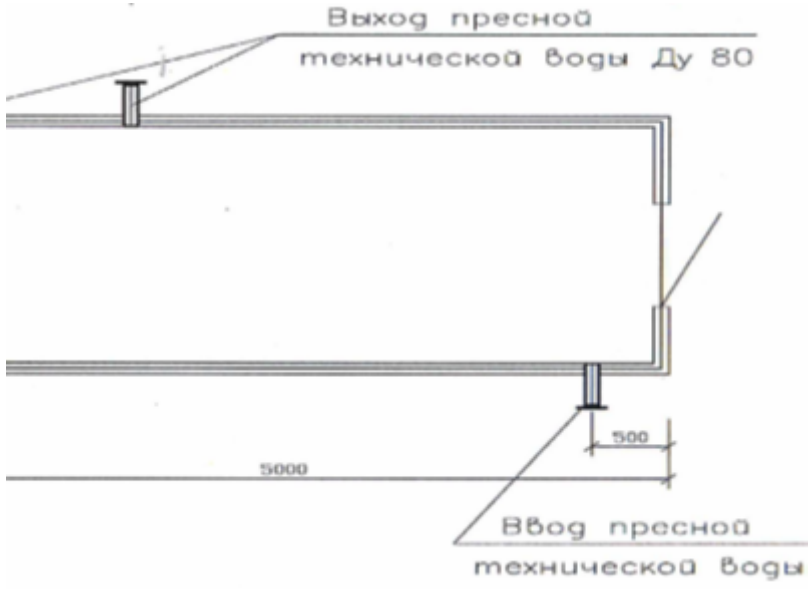
- 

- 
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