



Water pumping stations

The pumping station for pumping water can be used as an internal pumping station and a booster pumping station for pumping treated water at the Block-type cluster pumping station in the field gathering system and at oil and water treatment plants.



Characteristics

Part of the equipment

Block pumping station for water pumping can be placed in a block box and on an open frame, manufactured in various designs and configurations depending on the requirements of the Customer.

The pumping station for pumping water is equipped with:

- pumping units for pumping water;**
- filters, piping and cable piping, shut-off and control valves;**
- means of automation and instrumentation;**
- lifting mechanisms;**

- withdrawable devices;**
- service platforms;**
- placed in a heated block-box equipped with electric or water heating, ventilation, lighting, alarm and drainage systems.**

It is additionally equipped with control and alarm control devices.

The room of the pumping station for pumping water is made of modules with dimensions of 3x6x2.95m, 3x9x2.95m, 3x12x2.95m, which can be connected and completed in any way.

Designation

An example of a record when ordering products:

Pumping station for pumping water PW-25-HL1, where:

25 - productivity, m³/h;

HL1 - climatic version (-600C + 400C).

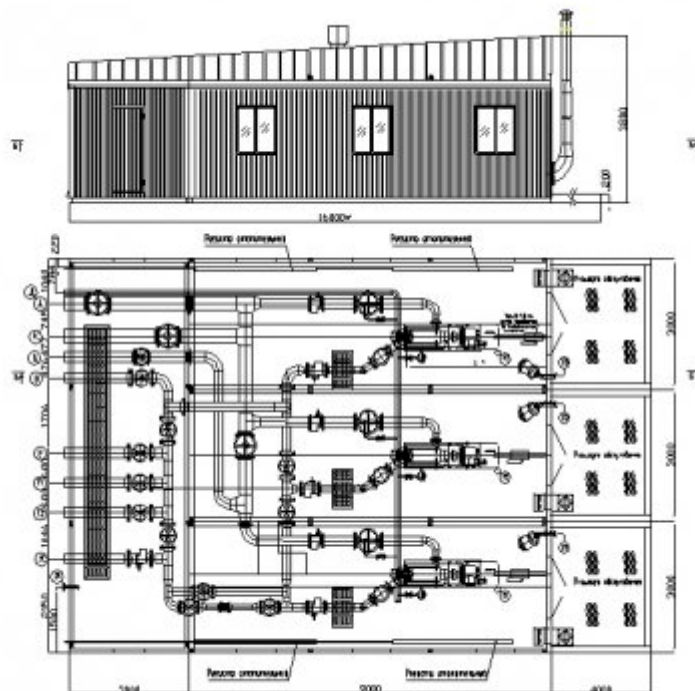
Technical details

Working environment	reservoir, commercial, fresh water
Water capacity of one pump unit, m ³ /h	13*300
Pump head, m, no more	70*441
Ambient temperature, C0	-60/+50
Air temperature inside the block, °C, not lower	+ 5
Explosion and fire hazard category of the building according to NPB 105-03	D
Degree of fire resistance according to SNiP 21-01-97	III

**Parameters and technical characteristics of pumping stations
with two pump units**

Parameters	Dimensions					
	PW - 15	PW - 40	PW - 60	PW - 100	PW - 180	PW-300
Productivity, m3/h,max	15	58	80	130	210	350
Suction line pressure, MPa	0,10 - 0,2	0,10 - 0,2	0,05 - 0,6	0,05 - 0,6	0,05 - 0,6	0,05 - 0,6
Discharge pressure, MPa	0,7 - 3,5	0,44 - 2,2	0,66 - 3,3	0,98 - 4,9	0,98 - 4,4	1,2 - 6,0
Number of pumps, pcs.	2 (1 working + 1 backup)					
Working environment	Water					
Working environment temperature, oC	+1 до +45					
Block dimensions, m: - length, no more - width, no more	6,0 3,0*	6,0 3,0*	6,0 6,0*	6,0 6,0*	9,0 6,0*	12,0 9,0*
Life cycle, not less, years	15					

Pumping station for pumping water with pumps at the option of the Customer ESP Water Pumps 105-245 (example)



With an increase in the number of working pumps, the productivity of the pumping station increases by a factor of 2.3 or more.

Explication fittings

Name	Purpose	Quantity, pcs	DN, mm
A1	Water inlet	1	200
Б1	Water inlet	1	150
В1	Coolant inlet	1	100
Г1	Coolant outlet	1	100

Д1	Drainage from the pump room	1	50
Е1	Drainage from the block floor	1	50
Ж1	Power cable entry	1	50
И1	Instrument cable entry	1	20

