

Summary

The smart VFD controlled pump booster system is composed of new PID controller and pump in parallel. It can auto adjust to fulfill variable water requirement of user. The pressure of water supply network will keep constant. The whole water supply system is in high efficient, energy saving status. VFD control can auto adjust each pump's rotating speed or start /stop pump, which can keep the pressure constant. It is the best way of water supply and it is easy for operation.

Applications

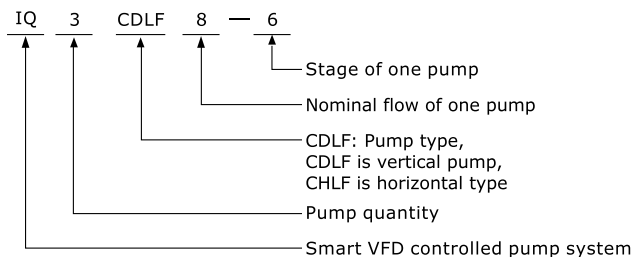
- Homes, small buildings, villas, hotels, etc.,
- Hospital, schools, stadium, golf course, air port
- Hotel, commercial buildings, department store, sauna
- Irrigation for park, play ground, orchard, farm, etc.
- Manufacturer, washing, food industry, factories.

Features

- 1.Auto control, constant water pressure
- 2.Set pressure in the device
- 3.There is built-in pressure and flow sensor, water level switch signal interface;
- 4.PID control, when no flow, it will monitor autoly and stop pump(go to sleep mode);
- 5.No need to use PLD, it can auto change pump;
- 6.When power supply stop to start or recover from low water level, it can run autoly;
- 7.The start and stop of the cooling fan is controlled by inner temperature, prolong fan service time;
- 8.When multi pump work together, it can change main pump autoly, make each pump work evenly, prevent pumps over working or can't work due to corrosive.
- 9.It is suitable for cold place, there is anti-frozen function.
- 10.There is running monitor and perfect motor protection, which make pump set easy to use, and it is small, save space.

Model definition

For example, 3 pump sets



※ Remark: Standard pressure of pressure tank is 10 bar, need to indicate if bigger than 10bar when order.

Benefits

- Solve low water pressure problem.
- The VFD pump system can keep the pressure constant for the whole building.
- Avoid second time water pollution of roof tank
- Eliminate traditional roof tank, lessen force of the building, simple structure, cost down.
- Save power supply, smaller space
- Save power 30% than normal equipment, small space, easy to install, shorten building time.
- Multi pump variable speed
- Each pump is equipped with VFD, multi pump in VFD.

Working conditions

Control way	VFD control
Installed place	In the room
Ambient temperature	+5℃~+40℃
Pumped liquid	Clean water
Liquid temperature	0~70℃
Max working pressure(Suction pressure+valve closed head)	20kg/cm ²
Min suction pressure	0.2kg/cm ²
Allowed suction pressure	Restricted by max. Working pressure
Pump	Multistage centrifugal pump
quantity of assembling	2 to 6
Power supply	Three phase220/380V,50Hz
Suction and discharge pipe	Stainless steel

Schematic diagram

