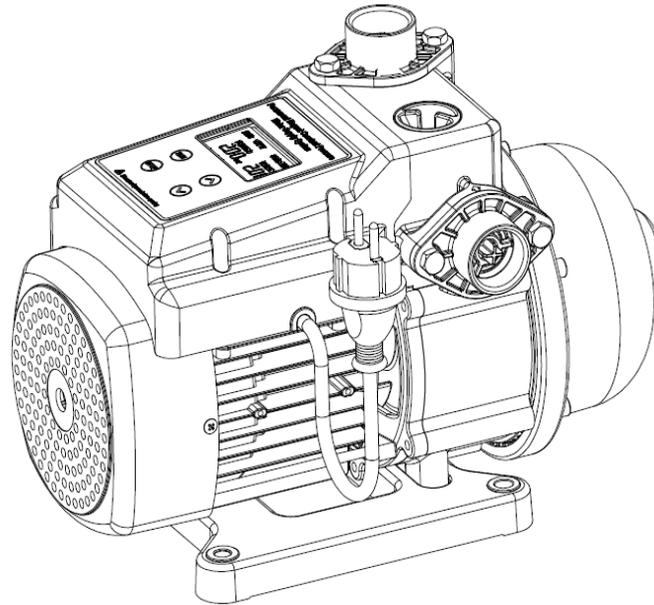


PERMANT MAGNETIC PRESSURE CONSTANT VAIRABLE FREQUENCY PUMP SYSTEM



Before install and use the product,please read the instruction carefully !

The product can't be used for the industry of medical treatment and other fields that maybe lead to personal injury,also can't be used for other overloads except control pump

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1. Safety and the attentions

1.1 notice for use

1. Please read this instruction carefully before installation and use.

2. Please pay attention to the safe warning and the instruction in the manual.

 The danger of general electric : if violate, the pump will be broken and people will hurt.

 The danger of electric, if violate, the pump will be broken and people will hurt

3. All the damage of product, personal injuries and other property loss caused by anyone who doesn't abide the safety warnings and instructions in the manual, our company do not assume any form of liability or joint and several liability, also don't pay any compensation.

4. Safety warning marks content

 danger	1. Please be sure to use correct selection of power, ensure that power conform to the requirements of the product.
	2. Cut off the power before installation and maintenance, ensure reliable grounding measure, otherwise can not use.
	3. If don't use the pump for a long time, please close the inlet pipe valve and cut off power.
	4. Can't install the product in wet or the place water splashed.
	5. If the product store more than two years, boost the pressure through the voltage regulator gradually when power is on, otherwise there is risk of electric shock and explosion.
	6. Don't touch the controller terminal when power is on, otherwise there is risk of electric.
	7. Please maintain and operate after five minutes when the power is cut off, at this time all indicator lights is off completely, otherwise there is risk of electric.
	8. Don't use wet hands to operate control panel, otherwise there is risk of electric
	9. If the wire aging or damaged, it must be replaced by professionals.

1. Safety and attentions



attention

- 1.Installation and operator must comply with the local safety rulls.
- 2.This product must be installed and maintained by professional.
- 3.The user must confirm: installation and maintenance must be operated by professionals who proficient in this manual.
- 4.If the motor is hot or abnormal, should close the inlet valve immediately, cut off power supply,and contact the dealer or service center,continue to use until after trouble clearing.
- 5.If you don't find the fault according to the specification, should close the inlet valve immediately, cut off power supply, and contact the dealer or service center,continue to use until after troubleshooting.
- 6.This product should be placed where children can not touch, isolation measures should be taken after the installation is complete, in order to prevent the children touch.
7. This product should be placed in dry and ventilated, shady and cool place, kept at room temperature.
- 8.In the summer or the environment temperature is high, should pay attention to ventilation, avoid the generation of condensate or dew, cause electrical failure.

1.2 Product examination

Every product should be finished the test of all functional items before leaving factory,clients need check the following after receiving the products :

- 1.Make sure the model and type is what you have ordered。
- 2.Whether the product damage caused by the improper transportation, if it has,please do not access the power。

1. Safety and attentions

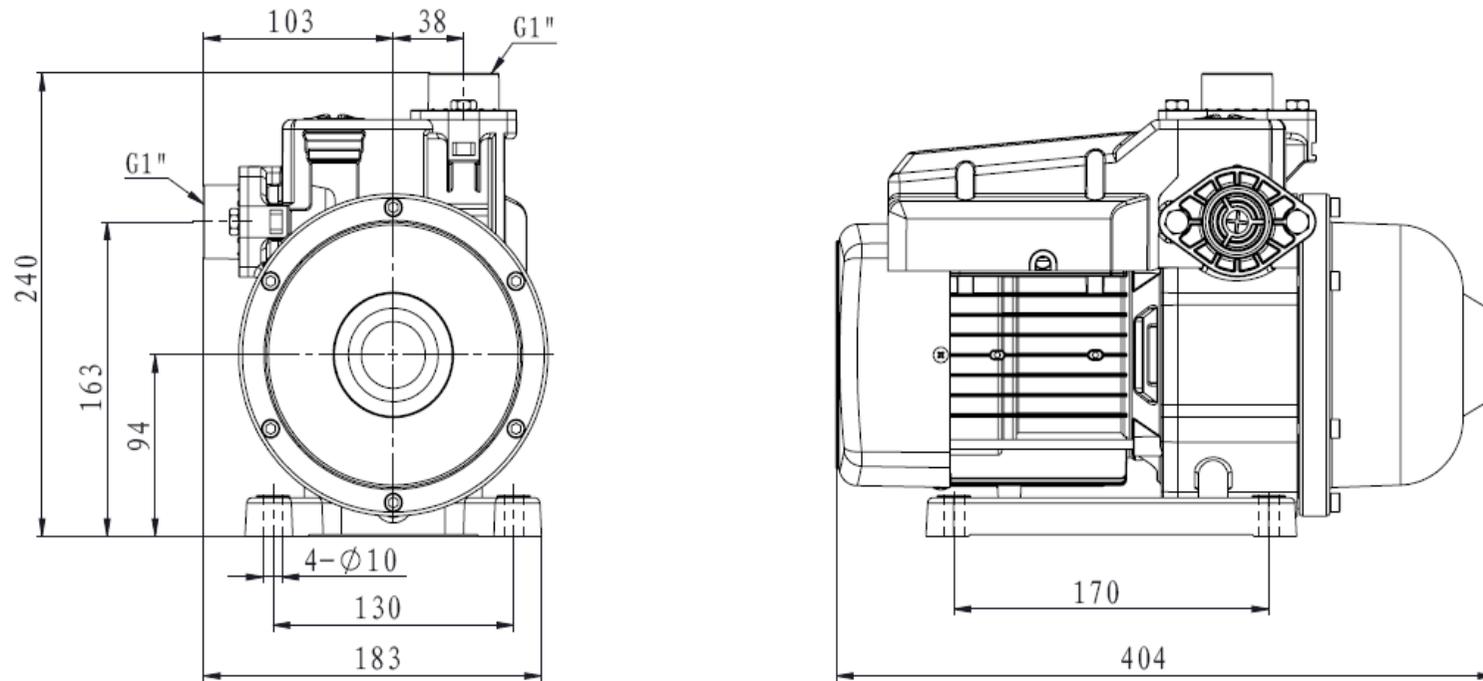
1.3 The use of environmental considerations

The installation environment of variable frequency pumps water supply system has a direct impact on the function and service life,so the installation environment meet the following conditions:

- products can be used in indoor environment
- environment temperature:-10°C ~+40°C
- installation environment can't damp, good ventilation
- stay away from the radioactive material and fuel
- avoid electro-magnetic interference →to prevent dust, lint and metal fines into the pump

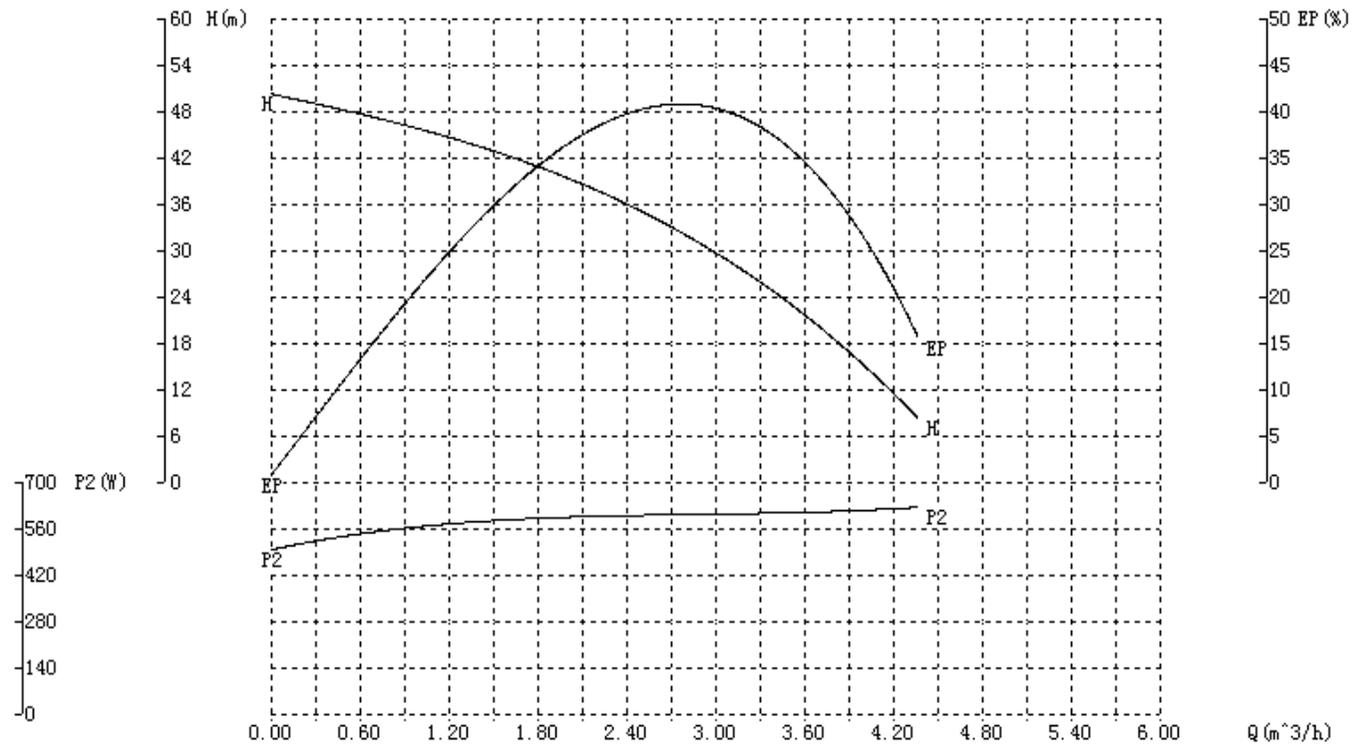
2. Product appearance, installation dimensions & technical parameters

2.1 Product appearance and installation dimensions



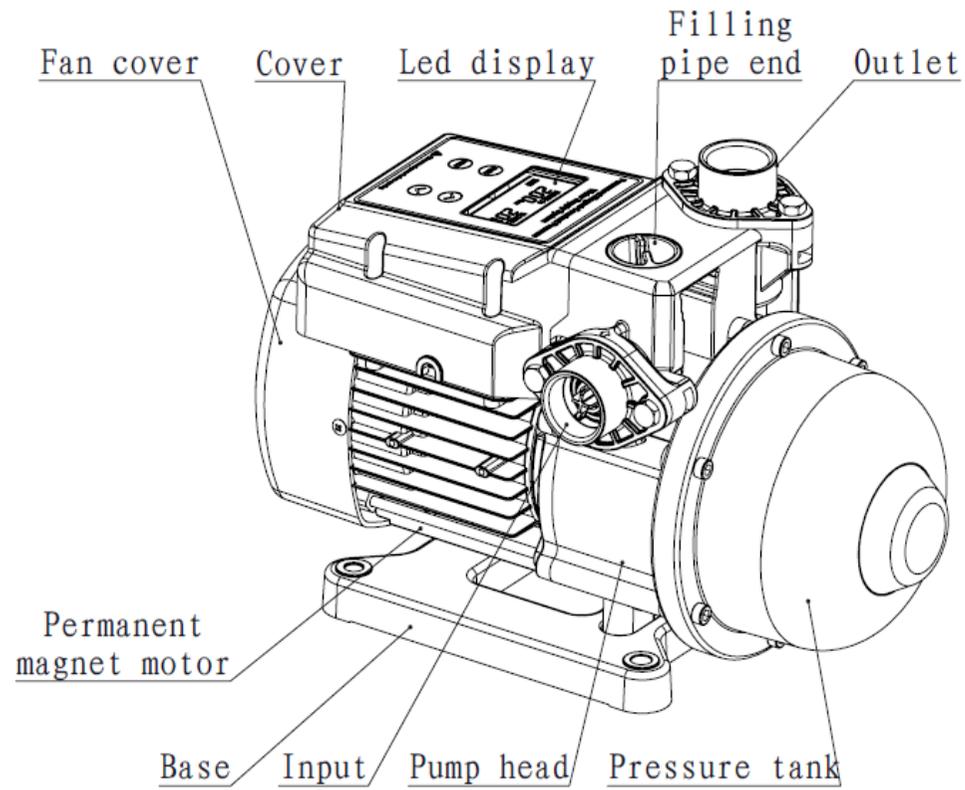
2. Product appearance, installation dimensions & technical parameters

2.1 APM203 Performance curve diagram



3. Installation and operating instruction

3.1 Product structure drawing



3. Installation and operating instruction

3.2 Operation and instruction

3.2.1 Checking before operating

1. Check whether the input power and environment are in conformity with the product usage condition.
2. Check whether the product is firmly installed.
3. Please loosen the water injection screw before power supply, fill water, and after filling the water, turn the screw clockwise.

3.2.2 Operating steps

1. Connect the power, the current pressure display area shows "0.0" bar, setting pressure display area to display the set pressure value, power indicator light.
2. Open the outlet valve, press the "RUN" button, start the pump.
3. Under any operating conditions, press the "STOP" button, stop the pump.
4. Press "▲" or "▼" button, can adjust the set value of work pressure, press "▲" button to increase the set pressure value, increase 0.1bar at a time, and press "▼" button to decrease the set pressure, increase/decrease rapidly by long time press.
5. Open the tap after setting pressure, the inverter will take frequency speed control on pump according to the water using status. Observing whether the pump is running normally, the pressure showed in the display whether is constant. If it does, the installation and debugging is finished, content to remove the faults and debug it again.

3. Installation and operating instruction

3.3.3 Buttons and functional description

Diagram		Key function and display description.	
	NO.	NAME	description
	1	Stop button	The pump can be stopped manually, press this button to exit the lack of water state.
	2	Operation button	The pump can be stopped manually, press this button to exit the lack of water state.
	3	working state	Indicates that the motor is in working state.
	4	Actual pressure	Display the actual pressure value of the current pipe network.
	5	input power	Displays the current actual input power value.
	6	Motor speed	Displays the current actual motor speed value.
	7	Set pressure	Displays the current set of pressure values, unit :bar. Indicates that the motor is in shutdown state. The factory default setting value is 3bar.
	8	shutdown state	Indicates that the motor is in shutdown state.
	9	Increase button	press the button one time can increase 0.1bar,long time press can increase rapidly
10	Decrease button	press the button one time can reduce 0.1bar,ong time press can reduced rapidly	
Fault code description			
NO.	Code	Fault cause	
1	LU	The network voltage is below 120V.	
2	OU	The network voltage is over 260V	
3	OLP	Motor with short circuit or over-current problems	
4	OLD	exceed the setcurrent or load power	
5	EH	Motor is blocked	
6	EP	Open phase	
7	LP	Water shortage	
8	OS	Sensor fails or the sensor is not detected.	
9	OC	temperature is higher than the set protection temperature.	
10	OCP	system pressure is higher than the maximum range of the sensor.	
11	EAA	The code displayed when communication failure between drive plate control plate	
12	LL	The code displayed when the system continues to operate for more 4 hours (or more than set working hours)	

4. Maintenance

4.1 Notices for Product Maintenance

1.Maintenance needs to be professionals.

2.Without permission.clients cannot change the pump structure,regulation performance,etc.

Otherwise,our company will not be responsible for all the consequences.

3.Adopt ventilation measures in summer, but shall not be exposed to direct sunlight or in the rain;
Take antifreezing measures in winter, but not with flammable materials。

4.If the pump long time no using, please cut off power, and open the bolt and keep pump dry.