

BOOSTER PUMP

Installation & Operating Instructions





Thank you very much for choosing our company's products. Please read the instructions carefully and save it properly before installation and use.

Warnings

- Please read the instructions carefully before installation and use.
- The circulator pump must be reliably grounded and installed with leakage protection devices before use.
- It is strictly forbidden to touch the circulator pump during operation

Warning for Children

- It is strictly forbidden for children, incapacitated persons, or person limited in disposing capacity (If have not been taught how to use this product safely and understand the hazards involved) to use this product without supervision by a guardian

Electricity Warning

- The electric power system may be used only when it has the safety protection measures specified by the existing provisions of the country where the product is installed

Pressure Warning

- The pump system must be able to withstand the maximum pressure of the pump.

Modification-related Warning

- The manufacturer is not responsible for any consequences caused by the user changing the electric pump or operating the electric pump beyond the operating conditions.

Cautions

1. Make sure that the pipe system is securely connected before installation and verify that the impurities, soldering leftover and wastes have been cleaned within the pipes
2. Make sure the pump is located in dry and ventilation environment to avoid short circuit due to moisture or splashing into the casing, and guarantee its availability to service and replacement.
3. The protection cover must be added, for the requirement of outdoor installation while actions must be taken to avoid being splashed and to prevent electric shock risk in indoor installation. Warning: do not install in bathroom to prevent vapor or water or moisture from going into the junction box resulting in electric leakage
4. When complete installing the pump, connect the power supply as pilot run and set the speed adjusting switch at rated max grade to check if the starting is normal, but the pilot running time can not be over 10 seconds so as to avoid idle running influencing shelf life of the bearing.
5. We strongly suggest you esteemed users to install shutoff valves at intake and outlet ports for the sake of following pump service and maintenance.
6. When the pump is supplying water to match the heat system, do not touch the pump and/or other pipes to avoid burning.
7. The power plug must be strictly grounded. Securely connect the GND pin of the power plug to the power plug grounded hole. Do not attempt to defeat the GND plug of the pump.
8. The striking security caution markings must be set up during pump working to avoid any accident.
9. The power supply must be firstly disconnected before adjusting pump location or before any action that may touch the pump during the pump is working to avoid any accident.
10. Regularly check the pump and timely replace in case of any damage.
11. Regularly check the insulating resistor of the pump, the insulating resistor in cooled state can not be lower than 50MΩ; and the insulating resistor can not be lower than 5 MΩ when it closes to working temperature.
12. The power cable can only be replaced with corresponding cords or the dedicating components.
13. In Winter, when the environment temperature is below 0°C, the water within the pipes must be exhausted thoroughly if the pump ceases working to avoid pump frost crack.
14. The heat supply pipes can not be always compensated with non-soft water to avoid the calcareous that water contained increasing even jam the impeller.

Working Condition

- Liquid temperature: 2 ℃ ~ 95 ℃
- Ambient temperature: 0 ℃ ~ 40 ℃
- Max system pressure: 6 bar
- Pumped liquid characteristics: clean liquid, free from solid sand mineraloils, non-toxic, chemically neutral,close to the characteristics of water
- Installation:the motor shaft must be kept in horizontal direction

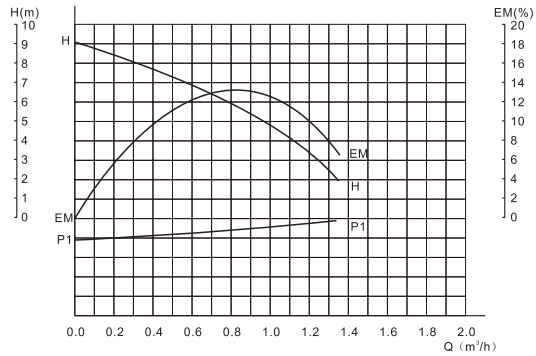
Pumped Liquid

- Heating water
- Glycol solution with density ≤ 50%

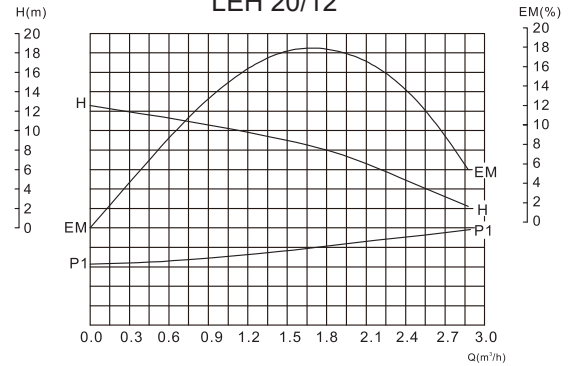
Technical Data

Parameter	Data
Rated voltage	1 x 230 V
Frequency	50Hz
Enclosure class	IP42
Insulation class	F
TF class	95
Size of connection	G3/4" G1"
Port-to-port length	160mm 162mm 200mm
Built-in flow switch	Include
Pump housing material	Cast iron
	Brass
	Stainless Steel
	Plastic

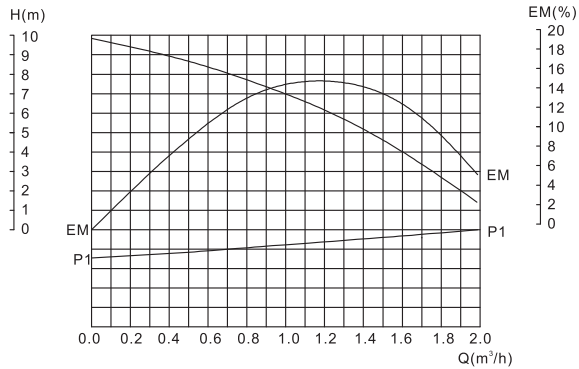
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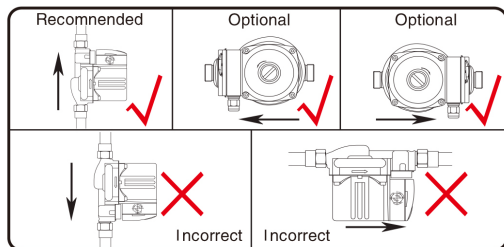


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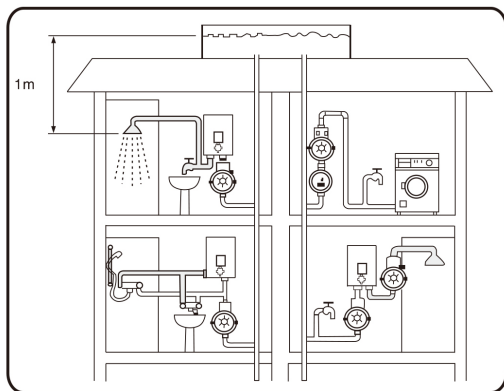


Installation

Keep the motor shaft horizontally during installation; the flow direction should follow the arrow direction marked on the pump body.

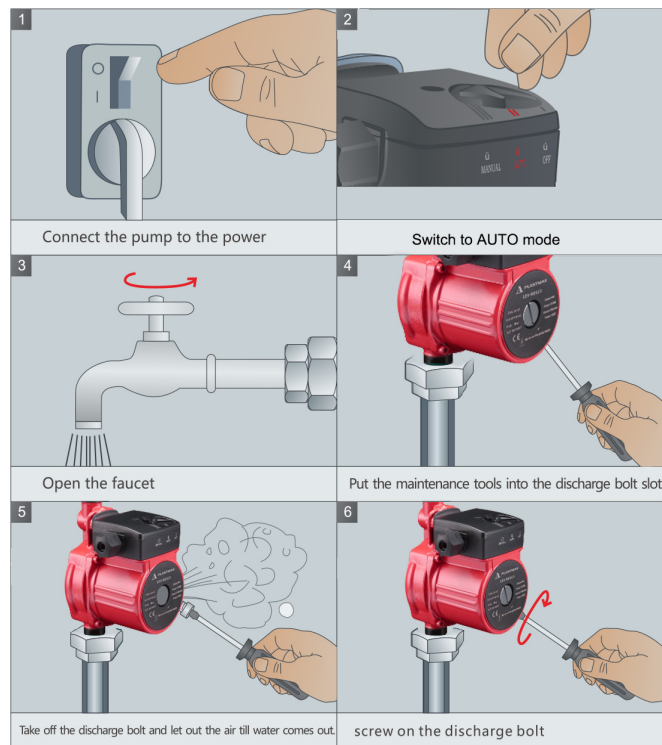


The top discharging point (tap or shower head) must be at least 1 meter below the water level in the tank.



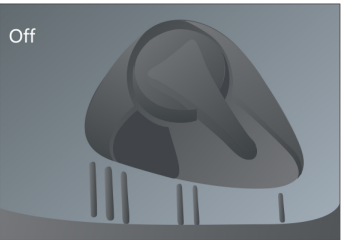
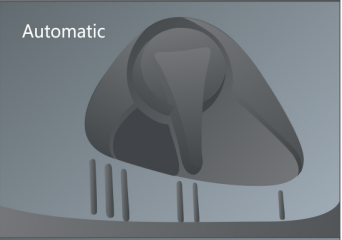
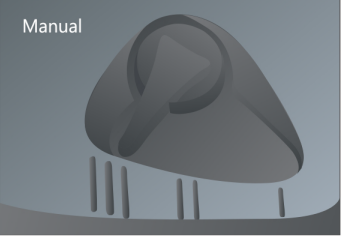
Discharge the air properly to make sure the pumps working best after installation or maintenance.

Do not let the water get into the connection box or the socket in case any electrical failure caused.



Operation

At least one faucet is open if in manual mode, otherwise the pumped liquid will be too hot to damage the pump.

The pump stops.	Off 
Open the faucet and the pump starts automatically; Close the faucet and the pump stops automatically.	Automatic 
The pump is running continuously	Manual 

Troubleshooting

Failure description	Main cause	Solution
Motor doesn'twork.	Off mode	Switch to Auto or Manual mode
	Electricity supply trouble	Check up the fuse and power line
	Shaft is stuck	Take off the discharge bolt and rotate with the screwdriver
	The flow switch is dirty	Clean the switch
Noise in pump	Air in system or pump	Run the pump for a few minutes when the faucet is open and discharge the air.
The pump does not stop when the faucet is closed	Manual mode	Switch to OFF or AUTO mode
	The flow switch is dirty	Clean the switch
The pump is running, but not pressurizing	close the valve	open the valve
	Air in pipe or in the pump	Run the pump for a few minutes when the faucet is open and discharge the air.
	The pump is dirty, the flow switch is blocked by inclusions	Disassemble and clean the pump