



HPRESS

Smart Booster Set Operation Manual



1. FEATURES AND APPLICATIONS

HPRESS series horizontal multistage centrifugal permanent magnet variable frequency pump is made of stainless steel, which is acid and alkali resistant and corrosion-resistant. When the water is stopped, the microcomputer control system will automatically detect and control the motor to slow down. Intelligent constant pressure water supply, high efficiency, energy saving and power saving, to meet the water requirements of different customers.

HPRESS series pumps widely apply to water supply, building boosting and other uses.

2. OPERATION CONDITIONS

HPRESS pump is suitable for non-flammable, non- explosive and clean liquids.

Liquid temperature: 0 ~ 45 °C

Maximum ambient temperature: 40 °C

Maximum suction head: 8 meters

Factory-set outlet pressure pump: 3,5 bar

3. INSTALLATION

Notice:

- Do not install the pump in the sun-baked or wet place.

- Install the pump as close as possible the water source.

- Install the pump in dry and ventilated place to ensure safe operation.

- Try to reduce the bend in pipe circuit, the gradient should be less than 2%.

- We recommend to install a foot valve with strainer

4. ELECTRIC CONNECTION

Danger:

Check that the supply voltage and frequency correspond to the values stated on the nameplate.


We recommend that you fit the permanent installation with a result-current circuit breaker with a tripping current less than 30 mA.



5. START, OPERATION AND STOP THE PUMP

Warning:

Priming the pump. If the suction depth exceeds 6m, it may be necessary to prime the pump more than once.

5.1. Open a tap to prepare the pump.







5.2. Connect the power plug into the socket and press the button start 

5.3. Adjust the pressure setpoint by  







5.4. Close the tap

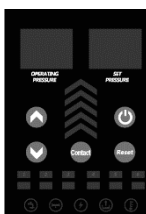
The pump will remember the controller settings even if it is turned off.




• HPRESS4

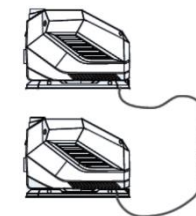
	Press one second	Start / Stop the pump
 or 	Press one second	Adjust the outlet pressure
	Hold 5 seconds	Switch the operating mode, the light  will be on in the constant pressure mode and off in the manual cycle mode.
	Hold 5 seconds	Restore the factory settings

• HPRESS8

	Press one second	Start / Stop the pump
 or 	Press one second	Adjust the outlet pressure
	Hold 5 seconds	Switch the operating mode, the light  will be on in the constant pressure mode and off in the manual cycle mode.
	Hold 5 seconds	Restore the factory settings
Booster set configuration: Up to 6 connected among them working in cascade		



Connect the pumps using the cable installed on the rear-bottom part of the pump together with the link cable included with this IOM		
	Hold 5 seconds	Off-line mode
	Master pump	First row number light item indicates the master pump
	Slave pump/s	Second row number light item indicates the slave pump



Auto reset




This function allows the pump to automatically check if the operating pump conditions are back to normal.

When the problem is *water shortage* the function works in the following way:

- Attempt priming for 6 minutes
- Stop 5 minutes
- Attempt priming for 1 minute
- Stop 30 minutes
- Attempt priming for 1 minute.
- Stop 6 hours

This cycle will be repeated after 24 hours

6. COMMON FAULTS AND SOLUTIONS

FAULTS	ROOT CAUSE	SOLUTION
E1	Communication errors of front panel and main board	Please check if the panel cable is well connected, and try connect it again. If unable to solve contact to the Official Technical Service
E2	Blocking	Please try to turn the fan page to see if the pump impeller is stuck. If unable to solve contact to the Official Technical Service
E3	Voltage failure.  lights up	Please check the voltage with a multimeter. If unable to solve contact to the Official Technical Service
E4	Outlet pressure sensor failure	Check whether the pressure sensor interface is in poor contact, check the interface, and re-plug. If it still cannot be solved, replace the pressure sensor.
E5	Controller failure	Turn off the power, wait for the panel light to go out, and then turn on the power again. If it still cannot be recovered, the motor or drive board is damaged. Please, contact to the Official Technical Service
E6	Phase loss	Check whether the motor cable is well connected. Use a multimeter to measure the resistance of the motor cable and see if there is any disconnection.
E7	Overcurrent	1. Check if there is a short circuit in the motor wire. 2. Test the motor for withstand voltage and whether it is not enough. 3. Re-power on and test, the motor is good, and the drive may be damaged due to accidental impact.
E8	Water temperature protection	Check if the water temperature is abnormal
E9	Water shortage.  lights up	Check if there is water shortage. See <i>Auto reset</i> function.
E10	Leakage.  lights up	Check if there is any leakage in the pipeline, or if there is a leakage in the check valve. It does not affect the water use, only indicates.
E11	Driver board overheating	After the temperature of the drive drops, it will automatically resume operation, or move the pump to a cool and ventilated place.

7. IMPORTANT NOTICE

Customers will not be informed if this manual is updated. Users shall be responsible for the damage if they disassemble the pumps by themselves in guaranteed period.

8. EVIDENCE OF CONFORMITY

The products listed are in compliance with:

Directive 2006/42/EC, 2014/30/EC, 2014/35/EC

Machine security standard EN 809: 1998+A1:2009+AC:2010

European Standard 60204-1:2006+A1:2009+AC:2010

European Standard 60335-1:2012+A11:2014

European Standard 60335-2-41:2003+A1:2004+A2:2010

European Standard 62233:2008+AC:2008

Signature

Miquel Coma, Director
Products: HPRESS series