VEVOR

Upgrade · The Home Creator Way

CIRCULATOR PUMP

Model: LPS25-4BP/130, LPS25-6BP/130, LPS25-4BP/180, LPS25-6BP/180, LPS25-8BP/180

VEVOR Support Center

1	LPS25-4BP/130		2	LPS25-6BP/130	
3	LPS25-4BP/180		4	LPS25-6BP/180	
5	LPS25-8BP/180		6		

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LPS25-6BP/180， LPS25-8BP/180



(The picture is for reference only, please refer to the actual object)

This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

	Warning-To reduce the risk of injury, user must read instructions manual carefully.

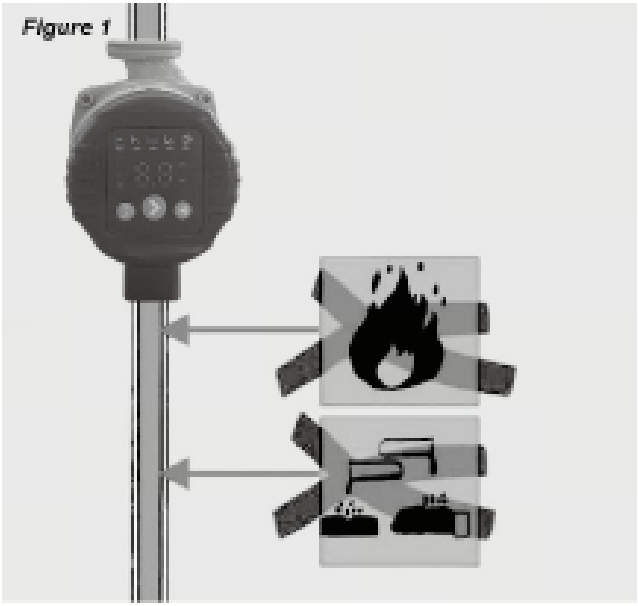
	Correct Disposal This product is subject to the provision of european Directive 2012/19/EU. The symbol showing a wheelie bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to acollection point for recycling electrical and electronic devices.

ATTENTION

Circulation Pump

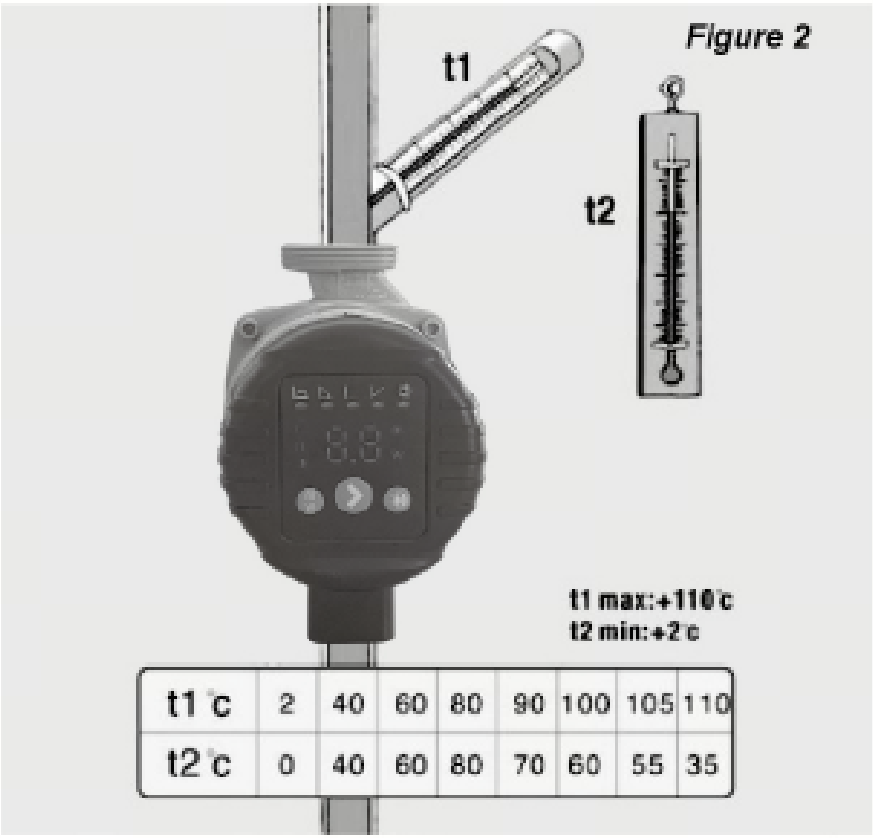
1.Using condition

- *This pump uses water or liquid to lubricate.*
  Therefore in the condition of no-water or no-liquid, operating shall not be exceed 10 seconds.
  (Figure 1)



- t1=pipe temperature

  t2=ambient temperature
  (Figure 2)



t1 °c	2	40	60	80	90	100	105	110
t2 °c	0	40	60	80	70	60	55	35

2. Installation

- Forbid to install upside down or motor downward, to avoid liquid leakage come into the interior of motor, causing short circuit and motor burnt (Figure 3)
- Putting into the cushion,screwing on the pipe fittings, fixing the water pump (Figure 4)

Figure 3

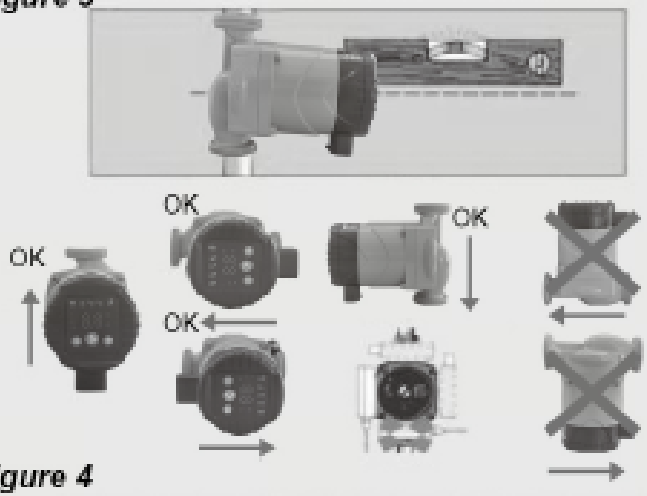
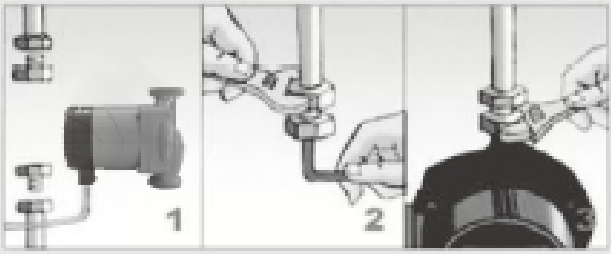
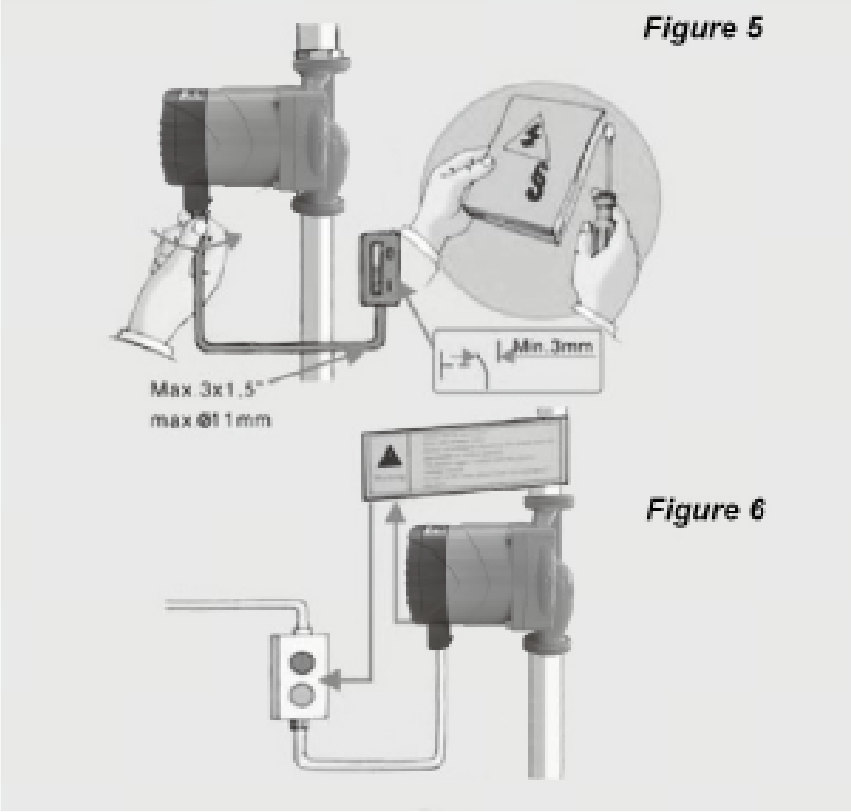


Figure 4

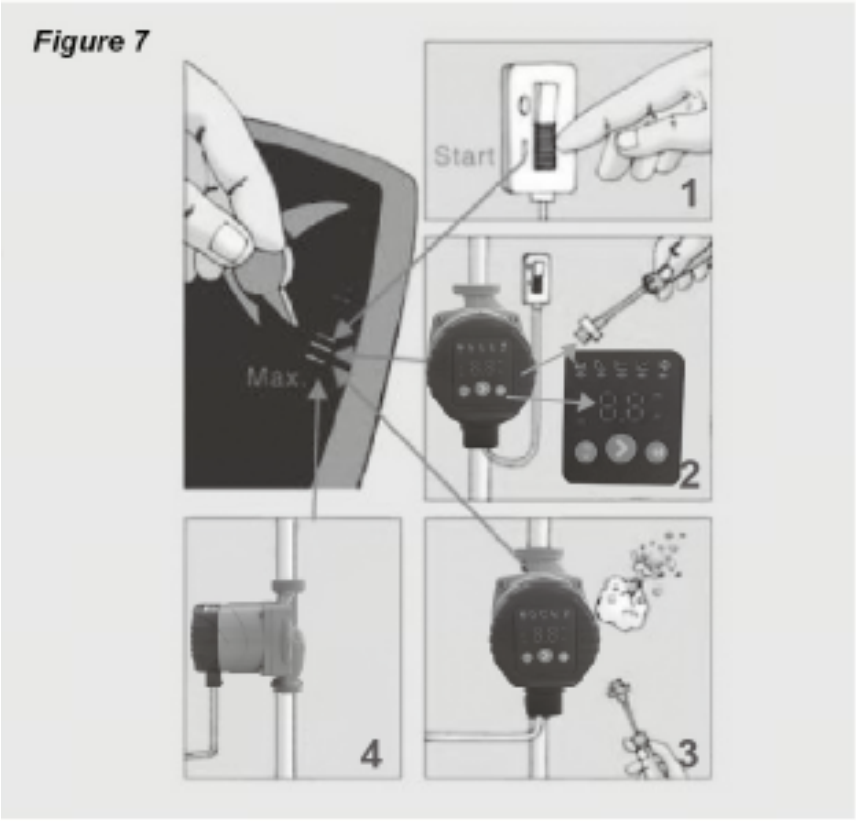


- Power outlet must be grounded, Should not modify on the machine grounding plug without authorization.(Figure 5)
- Reading the warnings carefully (Figure 6)



- Starting the power, tum the switch into III speed, then loosen off the air screw for venting.
  (Figure 7)

Figure 7



Fault	Cause	Remedy
Pump fails to start.	Supply failure.	Check fuses and possible loose electrical connections.
	Capacitor is defective.	Replace the capacitor.
	Pump blocked due to furred bearings.	Change over to maximum speed for a short period or free the rotor with a screwdriver inserted in the slot of the shaft end.
	Impurities in the pump.	Dismantle and clean the pump.
Noise in the system	Pump flow setting is too high.	Change over to a lower speed.
	Air in the system.	Vent the system.
Noise in the pump.	Air in the pump.	Vent the pump.
	Inlet pressure too low	Increase the inlet pressure or check the air volume in the expansion tank (if installed).

 **-At high water temperatures and system pressures, close isolating valves at both pump ports. First, allow pump to cool down.**

Noise

-Cavitation due to insufficient inlet pressure remedial actions:

-Increase system pressure within permissible limits.

-Check speed setting, if need be, adjust to a lower speed setting

If the fault cannot be located or rectified, please contact your nearest representatives.

3. Disassemble and repair

- Before repairing, must pull the plug first, cut off power, and close the inlet valve, remove the screw, then take out the damaged parts.(Figure 8)

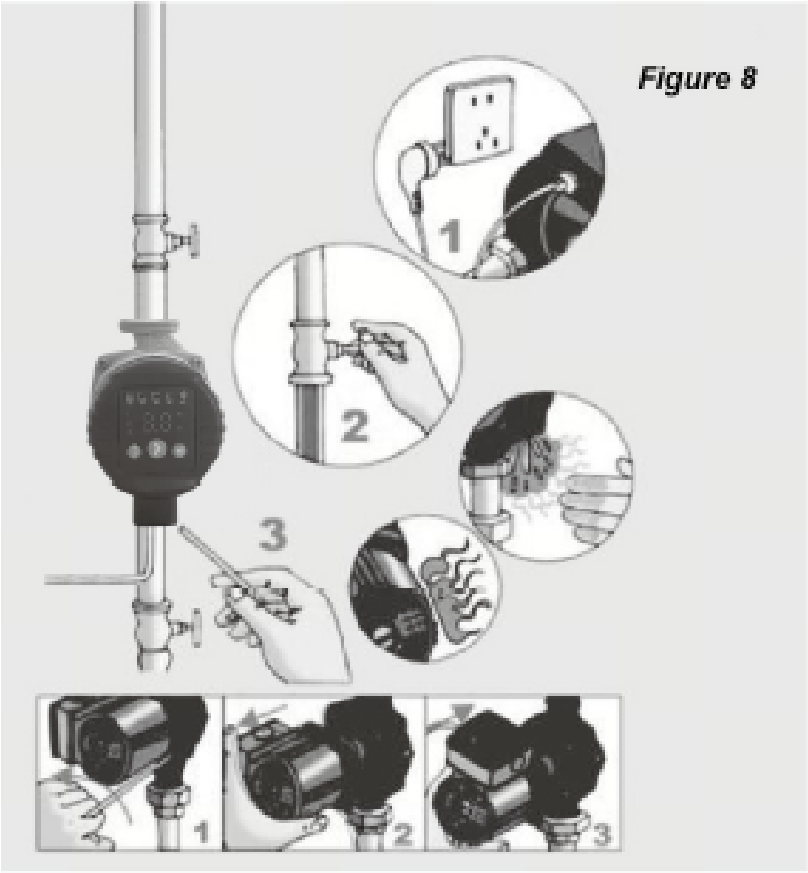


Figure 8

6.THE CONTROL PANEL

CATALOGUE

6.1 Components on the control panel

6.2 Display

6.3 Show the trooper area of the pump setting

6.4 Light area in automatic night mode

6.5 The button to enable night mode

6.6The button to start the pump setting

6.1 Components on the control panel

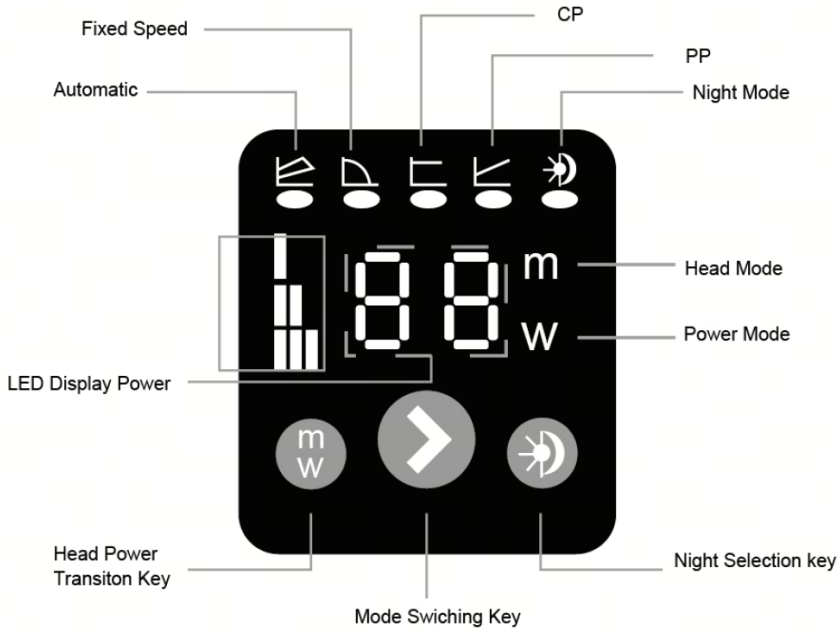


Figure 7 THE CONTROL PANEL

The variable frequency pump control panel includes



AUTO : Automatic Adaption



Constant velocity Speed I II III



Constant pressure curve



Proportional pressure curve



Night mode



Press this button to adjust all models.

6.2 Display

When the power is turned on, the display will work,

WAFNING During operation, the display value to Watt as a unit showing the actual power consumption of the pump

A fault that prevents the pump from working properly (for example, ablockage) ıs ındicated on the display as "--"

If there is a failure, you must disconnect the power supply, in order to troubleshoot, after the failure, re-connect the power supply and start the pump

Buttoncount	lightingarea	instruction
0	AUTO(the factor set up)	Automatic Adaptation
1	PP1	Minimum proportional pressure curve
2	PP2	Medium proportional pressure curve
3	PP3	Maximum proportional pressure curve
4	CP1	Minimum constant pressurecurve

Buttoncount	lightingarea	instruction
5	AUTO(CP2	edium constant pres suecurve
6	CP3	Maximum constant pressuecurve
7	I	Constant velocity curve,speed I
8	II	Constant velocity curve,speed II
9	III	Constantvelocitycurve,speed III
10	AUTO	Automatic Adaptation

6.3 Represents a lighting area in automatic night mode

Denoted by☼☽, See figure 7, Position 3. The light indicates that automatic night mode is enabled. See Section 6.5 for《the button to activate automatic night mode》。

6.4 Button to start automatic night mode

This button, shown in figure 7, at position 4,Turn on /off automatic night mode。

The automatic night mode feature is only available for heating systems with this feature, see Chapter 8, 《automatic night mode》。

The automatic night mode function starts when the lighting area☼☽

Factory settings: automatic night mode function **is not set.**

If the intelligent pump has been set speed 1mode，speed ||

or speed ||| mode ，auto night mode cannot be selected.

6.6 Select the pump setting button

Each press of the button once, as shown in figure 7, Position 5, the pump setting changes a mode。

For a cycle of eight presses, see section 6.3, 《indicating the light area of the pump setting》

7 pump setting

Catalogue

7.1 Set up the water pump according to the system type



7.2 pump control

7.1 Set up the water pump according to the system type

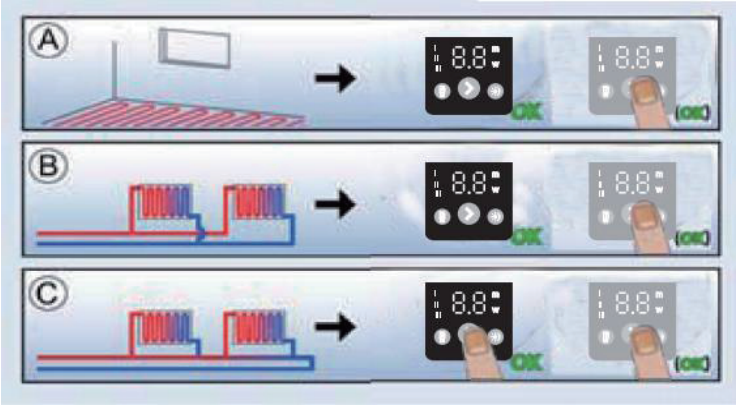


Figure 9 selection of pump settings by system type

Factory setting auto=adapting mode

Several optional pump settings are recommended, as shown in figure 9 :

Position	system type	pump setting	
		Optimal Setting	Or other optional settings
A	Floor Heating System	AUTO	Maximum constant pressure curve (CP2mode) Or Minimum constant pressure curve(CP1 mode)
B	Double-pipe heating system	AUTO	Maximum proportional pressure curve (PP2mode)
C	Single pipe heating system	(PP1mode)	(PP2mode)

* See Section 14.1, 《guide to performance curves》

AUTO （Adaptive mode）Heating System installed under the floor and double pipe system

AUTO （ Adaptive mode ）According to the actual heat demand of the system, automatically adjust the pump performance. As the performance is gradually adjusted, it is recommended that the pump be placed in "AUTO" mode for at least one week before changing its setting.If you choose to change back to "auto" mode, the intelligent pump can remember the vaguely auto-adaptive mode setting point, continue to automatically adjust the performance.

Pump setting changed from optimal to other optional settings

Heating Systems are "slow" systems that can not operate optimally in minutes or hours. If the optimal setting of the pump fails to achieve the desired heat distribution in each room, the pump setting should be changed to other settings.

For the relationship between pump settings and performance curves, see Chapter 11《pump settings and pump performance》。

7.2Pump control

During the operation of the pump, the pump is controlled according to the principle of "proportional pressure control" (PP) or "constant pressure control" (CP)。

Under these two control modes, the pump performance and corresponding power consumption are adjusted according to the heat demand of the system.

Proportional pressure control

Under these two control modes, the pressure difference between the two ends of the pump is controlled by the flow rate. The proportional pressure curve is shown in the Q/H diagram in PP1 and PP2, see Chapter 11《pump settings and pump performance》

Constant pressure control

In this control mode, the pressure difference between the two ends of the pump remains constant regardless of the flow rate.

Constant pressure curves CP1 and CP2 indicate a horizontal performance curve in the Q / h diagram.see Chapter 11《pump settings and pump performance》

8Automatic night mode

8.1 Basic principles of automatic night mode

8.2Automatic night mode function

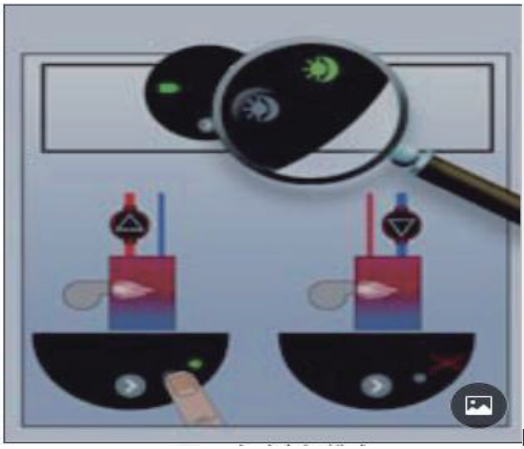


Figure 10 automatic night mode

FAILURE CHECKLIST

WARNING



Ensure that the power is disconnected and will not be accidentally switched on before any maintenance and repair work is carried out on the pump

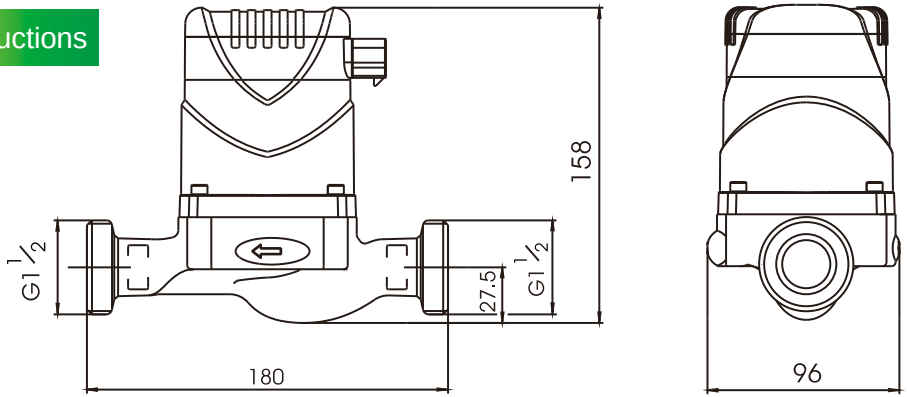
1.		b)C) pump failure 5)The voltage may be too low b)water pump jam	A) Replace fuse B) C) Check whether the power supply is within the specified range D) Remove the impurity
Failure check list	Control over panel	cause	Elimination methods
1.Water pump cannot start	Light out	a)A fuse blew out in the equipment	Replace fuse
		b)The current controller or voltage-controlled circuit breaker is disconnected	Switch on
		c)water pump jam	Replace the water pump
	"_ _"	a)The voltage may be too low	E) Check whether the power supply is within the specified range
		b)Pump blocked	Remove the impurity
2.There is noise in the system	Display a value	a)There's a gas in the system	Exhaust the system See section 10.3, exhaust for heating system
		b)Excess flow	Reduce inlet pressure of pump Chapter 11 "pump setting and pump performance"

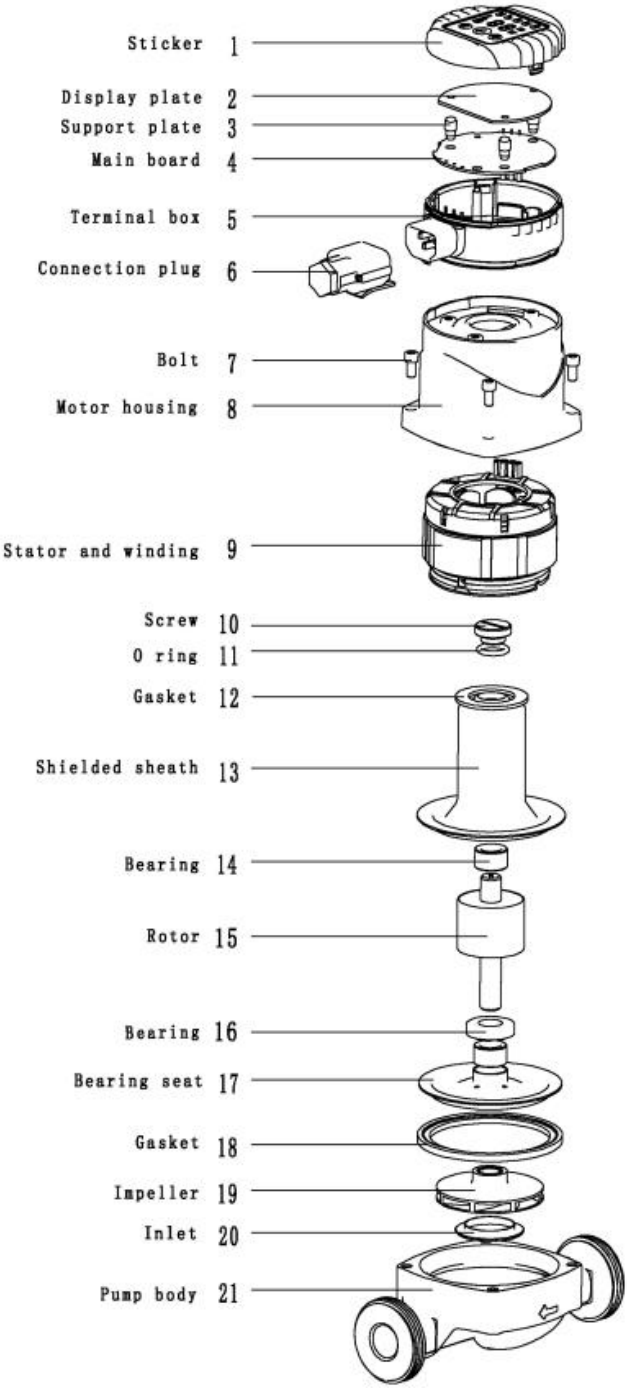
3）There is noise in the pump	Display a value	A)There's a gas in the pump B)Low inlet pressure	A)after running for a period of time,the pump will automatically exhaust see section 10.2 B)Increase inlet pressure.If expansion tank is installed,check the air volume.
4)shortage of heat	Display a value	Low pump performance	A) Increase inlet pressure of pump B) See chapter 11

SPECIFICATION PARAMETERS

Model	Input	Max Flow [l/min]	Max Head [m]	Power [W]
LPS25-4BP/130	AC220-240V 50Hz	42	4	22
LPS25-6BP/130		58	6	45
LPS25-4BP/180		50	4	22
LPS25-6BP/180		60	6	45
LPS25-8BP/180		67	8	60

Instructions




Sticker 1
Display plate 2
Support plate 3
Main board 4
Terminal box 5
Connection plug 6
Bolt 7
Motor housing 8
Stator and winding 9
Screw 10
O ring 11
Gasket 12
Shielded sheath 13
Bearing 14
Rotor 15
Bearing 16
Bearing seat 17
Gasket 18
Impeller 19
Inlet 20
Pump body 21

1.Warning-To reduce the risk of injury, user must read instructions manual carefully.
2.The product complies with relevant standards and regulations. Installation of this device must comply with all applicable regulations, and it should only be operated in well-ventilated areas. Please read the user manual before installing and using this equipment.
3.This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
4.Children shall not play with the appliance.
5.This appliance is intended to be used in household and similar applications such as:
-staff kitchen areas in shops, offices and other working environments;
-farm houses;
-by clients in hotels, motels and other residential type environments;
-bed and breakfast type environments.
6.Please use the product according to the intended use, warn of potential injury from misuse.
7.Switch off the appliance and disconnect from supply before changing accessories or approaching parts that move in use.
8.always disconnect the appliance from the supply if it is left unattended and before assembling, disassembling or cleaning
9.WARNING: Only use the supply unit provided with this appliance.
10.WARNING: Use only an external supply with the following specifications: <voltage and nature of supply> <power/current of supply>

DANGER – Electric Shock
Disconnect all electrical power before installation, maintenance, or disassembly. Lock out and tag the power source. Only qualified personnel may service this pump
.DANGER – Dry Run Hazard
NEVER operate the pump without liquid. Dry running will destroy bearings and the canned motor, causing fire, electric shock, or permanent failure.
DANGER – Hot Surface
The pump may become extremely hot during operation. To avoid burns,

keep hands and tools away from the pump body while in operation.
DANGER – High Pressure
Do not remove any plugs, covers, or piping while the pump is running or pressurized. Fluid ejection can cause severe injury.
WARNING
Read all instructions and safety warnings before use. Failure to follow safety rules may result in electric shock, fire, or serious injury.
WARNING
The pump must be properly grounded to prevent electric shock.
WARNING
Do not modify, disassemble, or alter the pump. Unauthorized changes may cause leakage, overheating, or explosion.
WARNING
Do not operate the pump beyond rated voltage, temperature, pressure, or flow limits.
WARNING
Avoid excessive piping stress. Do not use the pump to support pipe weight.
WARNING
Keep the motor ventilation area clear. Blocked vents cause overheating and damage.
WARNING
Keep children and bystanders away from the pump during operation.
CAUTION
Prime and vent the pump completely before first start-up.
CAUTION
Allow the pump to cool down and release system pressure before maintenance.
CAUTION
Use only genuine replacement parts.
CAUTION
Regularly inspect for leaks, abnormal noise, vibration, or overheating. Stop the pump immediately if problems occur.
CAUTION
Store the pump in a dry, clean, and non-corrosive environment. Drain all liquid if stored for a long time.



