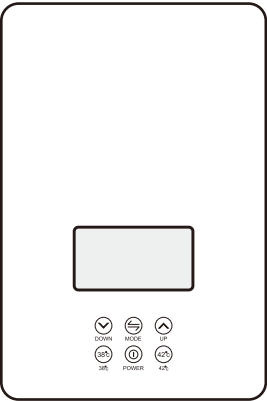


Instant Electric Water Heater

Instruction Manual



MODEL:SG02-60

Thank you for purchasing our instant electric water heater. To enjoy the service of this unit, please read and follow the manual carefully.

Precautions

- ➡ The instant electric water heater must be installed by qualified professional.
- ➡ Please take time to read this manual carefully and familiarize yourself with the function of this production!
- ➡ Before installing ,the expert should check the wire of the power supply circuit and the capacity of circuit breaker carefully ,to see if this can meet this machine's requirement.
- ➡ A reliable grounding wire must be installed, if there is no qualified grounding wire or it is invalid, do not use this machine.
- ➡ The electric leakage proof valve and the secure accessories must be installed along with this machine.
- ➡ Should install dedicated earth leakage circuit breaker, please switch off the earth leakage circuit breaker and close the inlet valve when not use.
- ➡ If the power line is damaged, please use the dedicated wire supplied by the factory, and replace it by professional.
- ➡ The water heater must be installed vertically, put through the waterway first, then turn on the electricity way to test the machine. Do not install where flammable and strong magnetic field is too close.
- ➡ If the water pressure is over 0.6MPa,should install pressure relief valve device to make sure security.
- ➡ The water inlet must loaded with strainer, the shower head and strainer must be cleaned regularly to remove scale and debris.
- ➡ The water outlet can not connect with non-standard water valve.
- ➡ In the cold area, if the water heater is not used for a long time, it should drain all the water off to prevent freezing, if there is ice, do not turn on the electricity.
- ➡ When the installment pipe line is new, firstly must clean the pipe line to remove debris, then connect with the water heater.
- ➡ To avoid the scald, please test the water temperature with your hand before taking shower, make sure if it is appropriate for you.
- ➡ In winter, if you can not get needed temperature when it is run with the highest power, please reduce the water flow to increase the temperature.
- ➡ Please according to the environmental protection standard to deal with the packing materials and the old machine .
- ➡ 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.
- ➡ Children should be supervised to ensure that they do not play with the appliance.

Product Introduction

- ◆ Switch on the water supply, then turn on the machine, the water will be heated instantly.
- ◆ The water and electricity are separated completely, and install the electric leakage proof valve to ensure safety.
- ◆ The frequency conversion function makes the power adjusted automatically according to the water flow and the water temperature.
- ◆ 55°C over temperature protection: when the temperature is over 55°C, it will stop heating to avoid scald. Increase the water flow or set the power lower to reduce the water temperature. It will restart when the temperature goes down to below 50°C.
- ◆ 95°C dry heating protection: when the temperature achieves 90-100°C, the power will cut-off automatically.
- ◆ Leakage protection: when leakage, the protection device will cut off the power supply immediately, and the screen will show the fault code.
- ◆ Sensor fault protection: when the sensor failure, the machine will stop working and send out an alarm.
- ◆ The unique heating element can control the temperature automatically.
- ◆ No need to preheat, avoid losing heat during the long preheating process. It's energy saving and time saving.
- ◆ Using the advanced flow sensitive technology to solve the lower water pressure problem which makes the machine be not used normally.
- ◆ Setting withstand 1500V insulation protection.
- ◆ Intelligent memory function, avoid repeated operation.
- ◆ Setting inside or outside "Electric Leakage Proof Valve", double protection to ensure secure.

Technical Parameter

TABLE 1-ELECTRICAL LOADING TABLE

Rated Power(kW)	6.0	5.5/5.0	4.5/4.0	3.5/3.0
Recommended cable size(mm²)	≥4.0	≥2.5		≥1.5
Recommended Amps	40A	32A		20A
Rated Voltage	220-240V~			
Frequency	50/60Hz			
Operating Water Pressure	0.02~0.6MPa			
Waterproof Degree	IPX4			
Rated Pressure	0.6MPa			
Protection Against Electric Shock	Class I			

Remarks: The above power cable size and breaker size are only for this machine. If you want to use other high-power appliances concurrently, please do further research for that.

Installation Steps

- 1.The instant electric water heater must be installed by a qualified professional.
- 2.Prepare the drill (Φ6mm), monkey wrench, screwdriver, electrician knife, electroprobe, multimeter, pincher, pencil, hammer, adhesive tape and so on.
- 3.Check the ammeter ,air switch and the wire meet the demand or not, make sure if the ground wire is really into the underground.
 - 1)The ground wire should be connected to the underground fully, otherwise, it will cause accident.
 - 2)The ELCB(Earth Leakage Circuit Breaker) must be installed, otherwise, it will cause accident.
- 4.According to the length of the wire and the position of the ELCB to make sure the position of the machine, then according to the installation drawing to mark the location of the screw holes on the wall in pencil. (As shown) Installing the hanging board on the wall.
- 5.(As shown)Put the shower head holder at the specified position, firstly, use the pencil to make a notation for the screw holes, then carefully drill the holes, at last, use the screw to install it.
- 6.Hang up the machine, put the machine into the fixed hanging board,then pull down to install well.
- 7.According to the installation drawing, the power line must be connected to the corresponding wire of ELCB. Live wire is red or brown, neutral wire is blue or black, and earth wire is yellow-green.(Before installing, make sure the main power switch has been cut off.)
- 8.Connect the water supply pipe (install the water valve (not supplied) and electric leakage proof valve) with the water inlet pipe and water outlet pipe. One end of the water outlet pipe connects with the electric leakage proof valve, its another end connects with the shower head.

Attention: Every pipe should use gasket, among them, water inlet pipe and relief pressure valve should use strainer. Please be careful when use a wrench to screw water pipes, force can't be too hurry and fierce, in order to avoid damaging the water heater.

Installation Diagram

Figure1

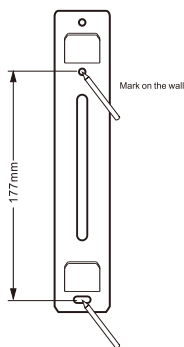


Figure2

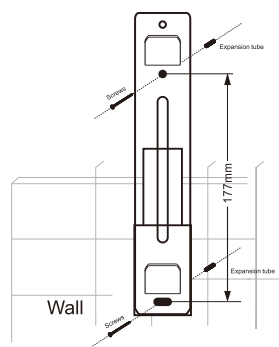


Figure3

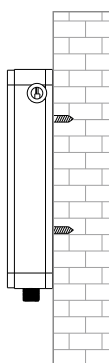
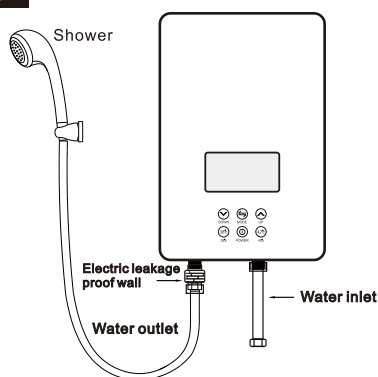


Figure4



This cable can be surfaced clipped, hidden or via 20mm conduit.
Connect the live cable(red/brown) to the terminal marked **L**.
Connect the neutral cable(blue/black) to the terminal marked **N**.
Connect the earth cable(yellow-green) to the terminal marked **E** on the back plate.

Usage

1. There are a total of 6 touch screen buttons on the screen, 3 on the top and 3 on the bottom.
The top 3 buttons from the left: Temperature Down , Mode, Temperature Up
The bottom 3 buttons from the left: 38 Degree, ON/OFF, 42 Degrees.
 2. Power on it will buzzer one time, After the display shows all for 1 second, after a long beep it enters the standby mode.
 3. Press the ON/OFF button to enter the normal heating default constant temperature state.
If there is no water flow, or the water flow is less than 1 liter/mins, the machine cannot start.
At the same time, the outlet water temperature will flash on the display.
(The flowmeter starts with 10 pulses, and 8 pulses to close, there will be a delay of 2.4 seconds when starting). The water heater start water flow is more than 1.0L/min.
 4. When the set temperature has not reached the outlet temperature, the "water flow is too large" will flash on the display. When it reaches, it will turn off by itself. And the program will calculate the power according to the 10Q water flowmeter.
 5. You can adjust the temperature you need through the UP and DOWN keys on the display.
Adjustable temperature: 30-55 degrees. If the temperature over 65 degrees, it will start over temperature protection. it will keep 6 beeps, then display "E4" code on the display. After 6 beeps, it will stop the heating and Once the temperature drops to 60 degrees the machine resume heating.
 6. Displaying "E1" keeps beeping, indicating that the machine is leaking, and the machine cannot recover by itself at this time. You need to check the machine to reinstall the right connection and then test again.
 7. When the water outlet probe fails, the open circuit displays "E2" and the open circuit displays "E5" with 6 beeps, which can be restored.
 8. When the water inlet probe fails, the open circuit displays "E3" and the open circuit displays "E6" with 6 beeps, which can be restored.
 9. Buttons function:
UP : 1 degree increase per press
ON/OFF button: Press once to switch on and off
Down: 1 degree decrease per press
38 degrees Key: One key to set 38 degrees in the power-on state
Mode key: Cycle to select the desired mode under the power-on state, "comfort, children, elderly, smart, kitchen treasure, laundry"
42 degrees Key: One key to set 42 degrees in the power-on state
- Power selection function: In standby state, long press the UP and DOWN keys same time for 3 seconds to enter the power selection. It will display 60/50/40 means the power is 6kw / 5kw and 4kw, 60 means it is the maximum heating power of 6kw of this machine. Single press the UP or DOWN key to select. Automatic confirmation after 3 seconds of no operation after selection Or press the ON/OFF key to confirm.

Common Faults And Solutions

Failure Phenomenon	Possible Reason	Treatment
Leakage in the joint of inlet and outlet pipe.	A.Bad connection of inlet and outlet pipe. B.The rubber washer is damaged.	A.Reconnect the pipe. B.Replace the washer.
The water temperature is too high.	A.Water flow is too small. B.Pipeline jam. C.The power or temperature is set too high.	A.Adjust the valve to increase the water flow. B.Clear the inlet filter and shower. C.Select lower power level or turn down the temperature.
The water is too cold.	A.The water flow is too large. B.The voltage is too low. C.The power is too low.	A.Adjust the valve to decrease the water flow. B.Check if the voltage is too low or not. C.Select higher power grade.
Water temperature is unstable.	The voltage or water pressure is unstable.	The voltage & water pressure are back to normal.
The water is smaller and smaller.	The inlet filter or shower is blocked by water impurities.	Remove the water pipe , clean the inlet filter/shower.
ELCB (Earth leakage circuit breaker) switch off the power.	A.Leakage of electricity. B.ELCB aging. C.The current of ELCB is too little.	A.Don't use it. Send to after-sale service to repair. B.Change the ELCB. C.Using ELCB with high current.
The screen has no display.	A.Power is not connected. B.The screen is damaged.	A. Close the switch to connect the power. B. Replace the screen.

Malfunction Code		
Show	Failure analysis	Solution
E1	Leakage of electricity	Send to after-sale service
E2	Exceed 55°C	Select lower power level or turn down the temperature.
E3	Temperature probe of water outlet is wrong.	Replace the temperature probe of water outlet.
E4	Dry burn	Restart machine and adjust lower power.

After Sales Service

- 1.One year warranty.
- 2.If there is something wrong with your machine, please send it to the factory or your agents, don't open it by yourself.
- 3.You can give a letter or call, but should provide following information:
 - 1)The product's name, model, the actual purchase time.
 - 2)The detailed problem of the product.
- We will offer the best service to satisfy you.
- 4.Please read the warranty card for more details.
- 5.To protect your right of after-sale service, please fill in the warranty card carefully.

Product packing list

Number	Product Name	Unit	Quantity
1	The main body	pc	1
2	Hanging board and screws	set	1
3	Shower accessories (optional)	set	1
4	Electric leakage proof valve (optional)	pc	1
5	Manual and warranty card	pc	1

Note: Should install safe care and other secure accessories.

Product warranty

Warranty Card

Contact				Telephone	
Product Model		Purchase Date		Installation Date	
Machine Code		Purchase Location			
Charge or not	<input type="checkbox"/> Yes <input type="checkbox"/> No Reason: Amount:				
Check power or not		Check leakage or not		Tell how to use or not	
Installation Personnel (signature)			Customer (signature)		

Maintenance Date		Maintenance Personnel (signature)	
Maintenance Situation			
Replacement Of Parts			

Customer Need To Know

- 1.After finishing installing the water heater, the customer should check and make sure it's well,then fill in the warranty card and sign.
- 2.If there is any quality problem in one year,depend on this card,can send it to our company or the retailer to repair for free.

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This product must not be disposed together with the domestic waste. This product has to be disposed at authorized place for recycling of electrical and electronic appliances.

By collecting and recycling waste, you help save natural resources, and make sure the product is disposed in an environmental friendly and healthy way.

Remarks: The specifications may be changed without prior notice. All features and specifications are all given by manufacturer.