



Electric Instantaneous Water Heater
K5 (INVERTER)



3 in 1
SMART POWER



Installation Instructions
&
User's Manual
EN

Package Contents

1) Instant Water Heater



2) Water flow regulator



3) Triple-spray hand shower



4) Set of three (3) mounting screws & plastic plugs



■ Important Safety Instructions

- The installation must be in compliance with the National Electrical Code, your local electrical and plumbing codes.
- This appliance must be EARTHED.
- Install or locate this water heater only in accordance with the provided installation instructions.
- Use this water heater only for its intended use as described in this manual.
- Contact a qualified electrician to have the unit properly installed.
- This appliance can be used by children aged from 3 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instructions concerning using the appliance in a safe way and understand the potential hazards involved in case of misuse.
- This appliance **MUST** be permanently connected to the fixed circuit breaker.
- **DO NOT** install the device outdoors exposed to the weather.
- To avoid serious damage of the internal components of the device **DO NOT** switch it on if you think it may be frozen.
- We advise you to test the temperature of the hot water coming out of the device with the inside of your palm before it comes into contact with your body or the body of a small child or baby. *For showering make sure the set temperature won't exceed 42°C.*
- Before supplying water to the appliance, you should turn on the water supply switch for a few seconds to flush out any dirt or other solid objects.
- The three-spray hand shower should be cleaned regularly.

	Correct disposal of this product
	This symbol on the product, or in its packaging, indicates that this product may not be treated as household waste. Instead, it should be taken to the appropriate waste collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by the inappropriate waste handling of this product. For more detailed information about the recycling of this product, please contact your local council, your household waste disposal service, or the shop where you purchased the product.

- Manual could be download from Official website.

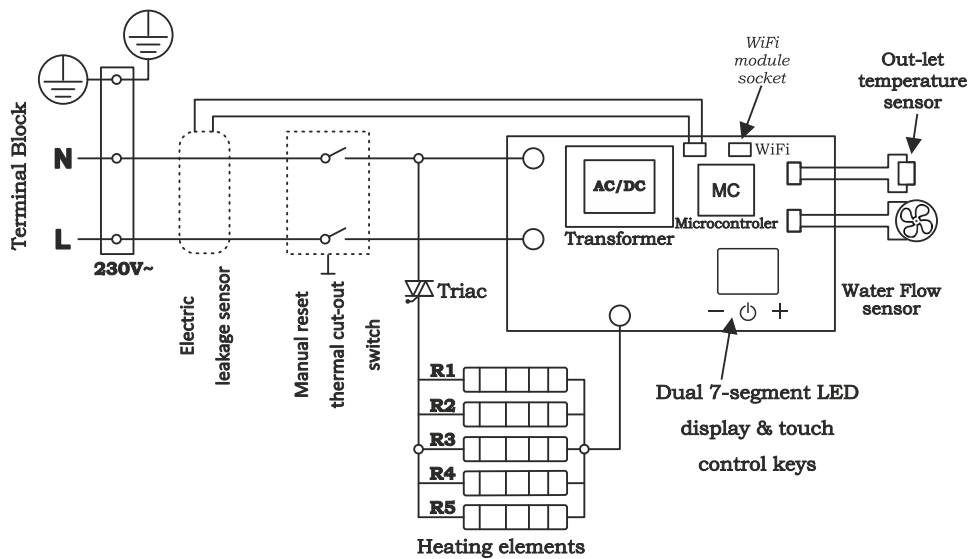
■ Product Features

- On demand hot water instantly and economically with minimal energy losses based on A Class rated ErP certificate.
- Compact design with high strength, non-flamable, water proof rating IP25 ABS casing.
- Easy operation, 3 in one smart power constant temperature function.
- Micro-computer control, adopting patented 6th generation cast aluminium heating technology. Water is completely separated from electricity by multi-layers of composite nano insulation material.
- Digital multi-level safety algorithm:
 - Over temperature protection algorithm will force the device to stop heating when the outlet temperature reaches 75°C avoiding scalding and will return automatically to normal operation when the outlet temperature drops to a normal level.
 - Out-let temperature sensor malfunction warning with emidiate .
 - In the unlike possibility of electric leakage the device will
- Mechanical over heating protection:
 - A manual reset thermal cut-off switch will cut-out the electric current from the mains power supply when the temperature on the body of the cast caluminium eheatinglements reaches 95°C.
- WiFi ready function. The heater can be remotely controlled using an Android or iOS application. Ask your dealer or contact directly with SOLCORE to arrange the upgrade process.

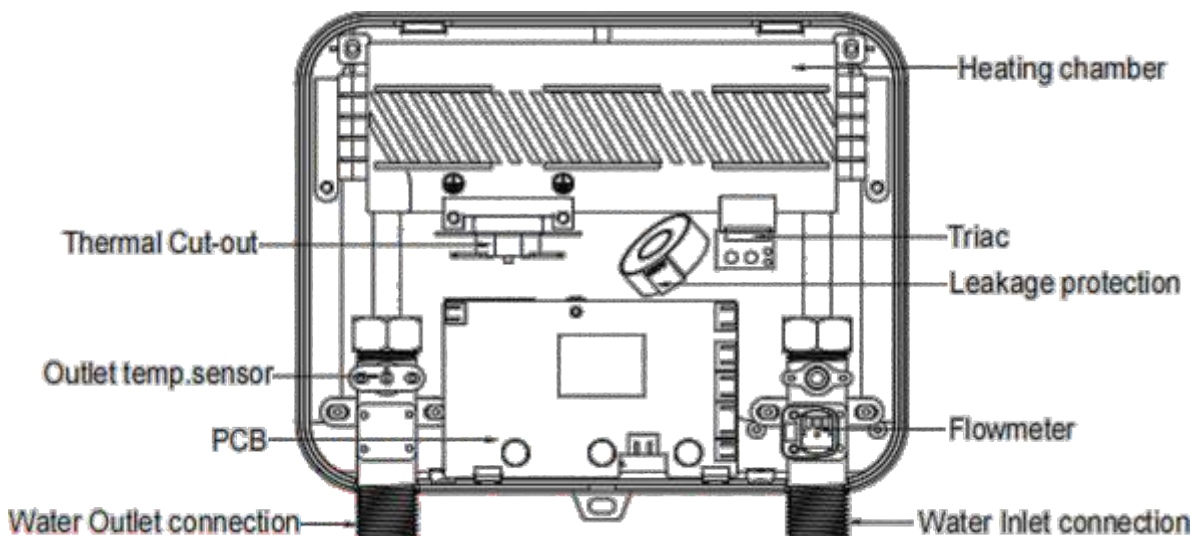
Technical Table

Model	K5
Rated Voltage	220V - 240V~ 50 / 60Hz
Rated Power	5.5kW @ 230V
Rated Current	23.9A @ 230V~ 50Hz
Power cord cross section	3*4.0mm ²
Rated Pressure	0.02MPa - 0.6 MPa(1.0Mpa max tested)
Min. Air Switch	≥25Amps
Required Electric Meter	40Amps
IP Class	IP25
Temperature Setting	30°C - 60°C
Overheat Protection	75°C
Thermal Cut-out	95°C
In-let & Out-let Section	G1/2" Male
Min activation flow rate	1.2 - 1.5 L/min
Max water flow rate	6.0 L/min
Product Size	210*170*50mm

Electrical Diagram



Inner Structure



■ Installation Guideline

The installation must be in compliance with the National Electrical Code, your local electrical and plumbing codes.

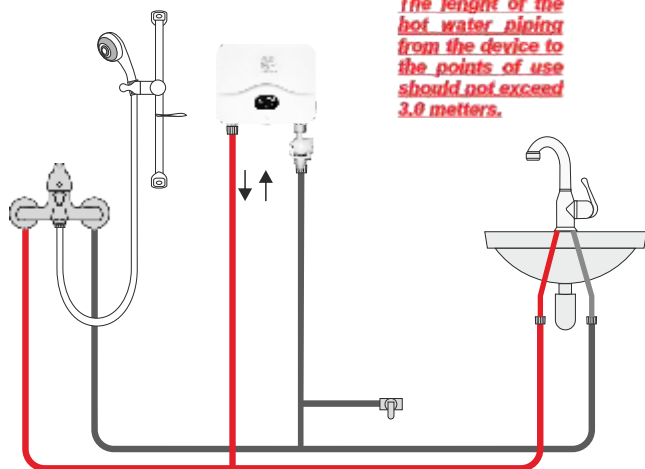
1. Make sure the appliance is intact, and the fittings are complete.
2. Please make sure the main power supply, water pressure, grounding conditions, and power cord meet the standards of installation requirements.
3. The appliance must be connected to a properly grounded dedicated branch circuit of proper voltage rating. Ground must be brought to the “ground” at the circuit breaker panel.
4. This appliance **MUST** be permanently connected to the fixed circuit breaker. If you don't use the water heater, please switch off the circuit breaker.
5. The appliance can be installed above or under the sink, in the shower or under the wash basin. It has to be mounted in a VERTICAL position near by the water fittings.

■ Installation Method

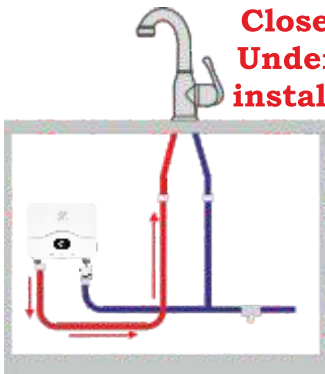
Open-Type



Close-type (multi-point)

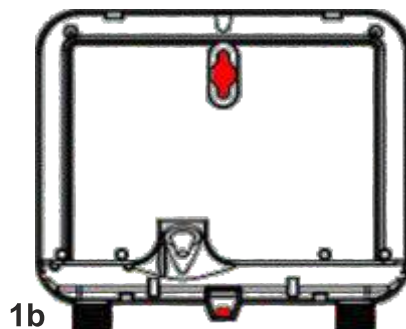
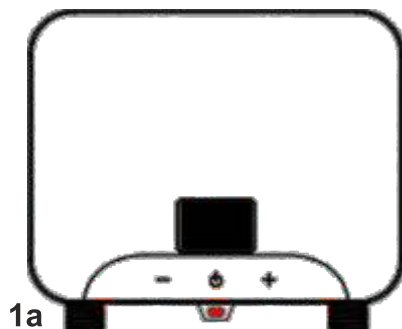


Close-type Under-sink installation



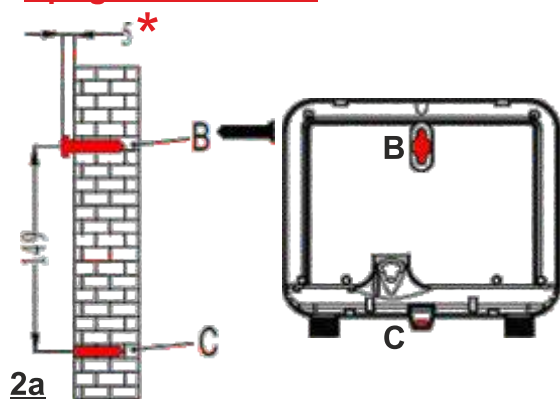
● Mounting The Unit

Locate an appropriate spot you want to mount the unit. On the back of the device you will see the specially designed mounting holes. **Fig 1b.**

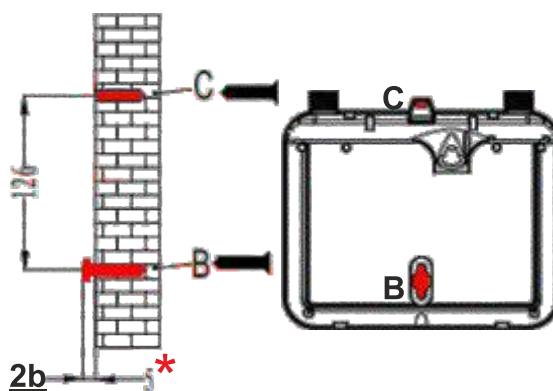


Before you drill the holes and proceed to the mounting you will have to choose one of the two orientation positions where the distances between the two holes differ on the vertical axis Fig. 2a.(149mm) and Fig. 2b.(126mm) respectively.

Upright Orientation



Upside down Orientation



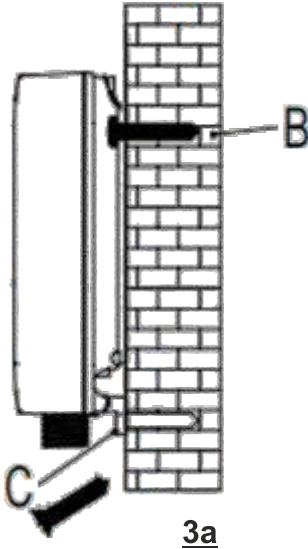
Measure the distance between position B and C depending on the orientation of the installation and make the holes **B** and **C** respectively using a 5.00mm diameter drill Fig. 2a, Fig 2b. Insert the plastic plugs in the holes and fix the hanging screw in **B** hole leaving *5mm distance between the mounting surface and the head of the screw.

■ Installation Method

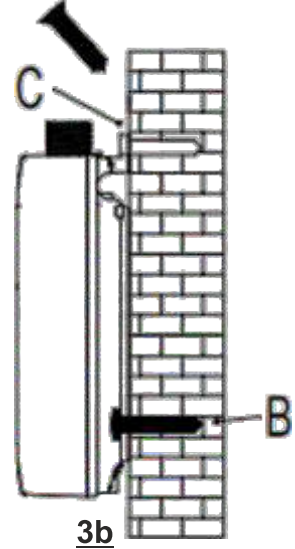
● Mounting The Unit

Mount the unit on the hanging screw, **B** hole, depending on the installation orientation Fig. 3a or Fig. 3b respectively and fix the screw in hole **C** tightly to secure the device.

Upright Installation



Upside Down Installation

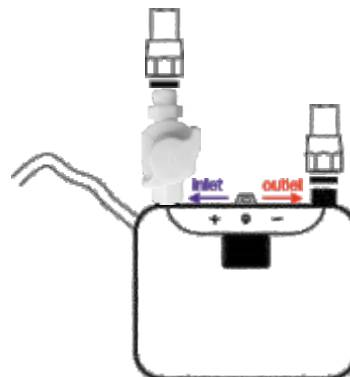
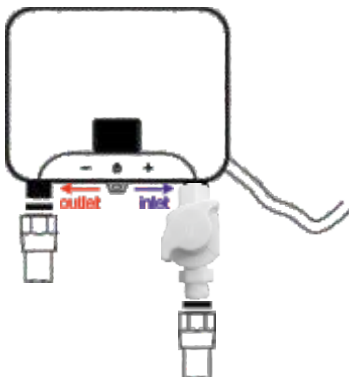


■ Installation Method

● Water Supply Connection

All water pipe must comply with national and applicable state and local water pipe codes. Before connecting the unit with the water supply you have to connect the water flow valve on the inlet pipe.

- The inlet of the unit should be connected directly to the main water supply via a G1/2" female high pressure flexible hose.
- The outlet of the device should be also connected with a G1/2" female high pressure flexible hose.
- Before proceeding to the electrical connection please test all the water connections for leakages.



● Electrical Connection

- All electrical procedures must comply with the national and local electrical codes in force.
- The appliance is fitted with a 3*4mm² power cable.
- All units must be connected to a properly grounded dedicated branch circuit with the appropriate rated voltage.
- Make sure that the metal terminals of the power cable are properly connected to the appropriate circuit breaker (fuse) in the main electrical panel. Consult the appliance technical panel page 03.
- Before starting any work on the electrical installation, make sure the main power switch in the electrical panel is in the "OFF" position to avoid any risk of electric shock. All assembly and plumbing work must be completed before proceeding with the electrical connection.

■ Operating Instructions

- Open the water faucet for a few minutes until water flow is continuous and all air is purged from water pipes. The unit must be operated after the breakers are turned on.
- Turn on the circuit breaker to power up to the unit.
- After the unit is supplied with power, the dual seven segment LED display turns on for 2 seconds and the appliance enters standby state.
- Press  to turn ON/OFF the appliance. When the unit is ON, LED displays setting temperature for 2 seconds, then display the actual outlet water temperature. The LEDs of the display turn off and enter in screen saver mode when the device is idle for 2 seconds. The display will instantly light up again if there is water flow or touching the +, - or ON/OFF  keys.
- 5. Press "+" and "-" to adjust the outlet temperature. The temperature setting range is 30°C to 60°C.
- 6. Adjustable power function (3 in 1 Smart Power). In OFF mode, press "-" for 5 seconds to enter the adjustable power function, and then press "+" and "-" to adjust the maximum power level to P1, P2 and P3 and limit the rated power to 55%, 70% and, 100% respectively.
- Short press the ON/OFF  to save the setting or it will be auto saved after 3 second of inactivity.
- 7. In off mode, touch "+" and "-" at the same time, hold on for 3 seconds, to set the LED display to upside down orientation.
- 8. Overheat Protection Function: If the outlet temperature is ≥70°C, the unit will stop heating the water until the outlet temperature drops to 50 °C. It will then start heating the water again automatically. If the outlet temperature is ≥75°C, the device will stop heating and the error code E1 will appear on the display.
- 9. The device has memory function in case of power failure from the mains power supply provider. When the electric power comes back the device will switch on and it will return to its last state.
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Problem	Possible Cause	Solution
1. Water is leaking from the in-let and out-let fittings.	A. Fittings are not tight B. Rubber washers worn-out	A. Tighten fittings. B. Change rubber washer.
2. LED display won't turn on.	A. No electric power B. Display is damaged.	A. Check the power cord or mains power. B. Contact SOLCORE
3. Touch controlled keys not working	Touch controlled keys are damaged or the PCB is malfunctioning.	Contact SOLCORE
4. Outlet water is too hot.	A. Very high temperature is set. B. Very low water flow.	A. Set a lower temperature. B. Increase water flow.
5. Outlet water is too cold.	A. Very low temperature is set. B. Very high water flow.	A. Set a higher a temperature. B. Decrease water flow.
6. Outlet water has very low flow.	The in-let strainer or the hand shower is clogged.	Clean or replace strainer and shower.
7. Error code E1 appears.	Outlet temp. is over 75°C.	A. Reduce the set temp. B. Increase water flow,
8. Error code E2 appears.	Electricity leakage has been detected.	Contact SOLCORE
9. Error code E4 appears.	A. Power cord is loose. B. Temp. sensor failed.	Contact SOLCORE

■ *Note: Do not attempt to repair this water heater yourself, call a service person for assistance. Before this operation, the power supply needs to be shut off. It is not required any regular maintenance. However, to ensure consistent water flow, it is recommended following maintenance. Periodically remove scale and dirt that may build up at the aerator of the faucet or in the shower head. There is a built-in filter screen at inlet connection which should be cleaned from time to time. Please turn off the water flow before doing this.*