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Solcore®

Electric Tankless Water Heaters

Electric Instantaneous Water Heater

K5 (INVERTER)



3 in 1
SMART POWER

WiFi Ready

Touch Keys

10 Years non-corrosion Warranty

0% scale build-up

ECO

Installation Instructions & User's Manual

EN

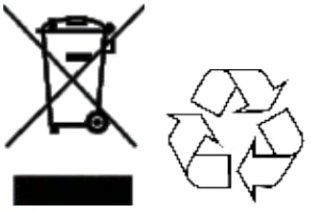
SOLCORE after many years of research, offers you unique Instantaneous Electric Water Heaters, with advanced European technology.

SOLCORE is targeting to superior quality with the best price, ease of use and energy saving, taking care always to be environmentally friendly.

Thank you for choosing **SOLCORE Instantaneous Electric Water Heaters**.

Read the installation instructions and user's manual of the device with care.

If you have any questions about the product please contact us.



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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 misusage.
- This appliance MUST be permanently connected to the fixed circuit breaker.
- DO NOTinstall the device outdoors exposed to the weather.
- To avoid serious damage of the internal componenets 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.

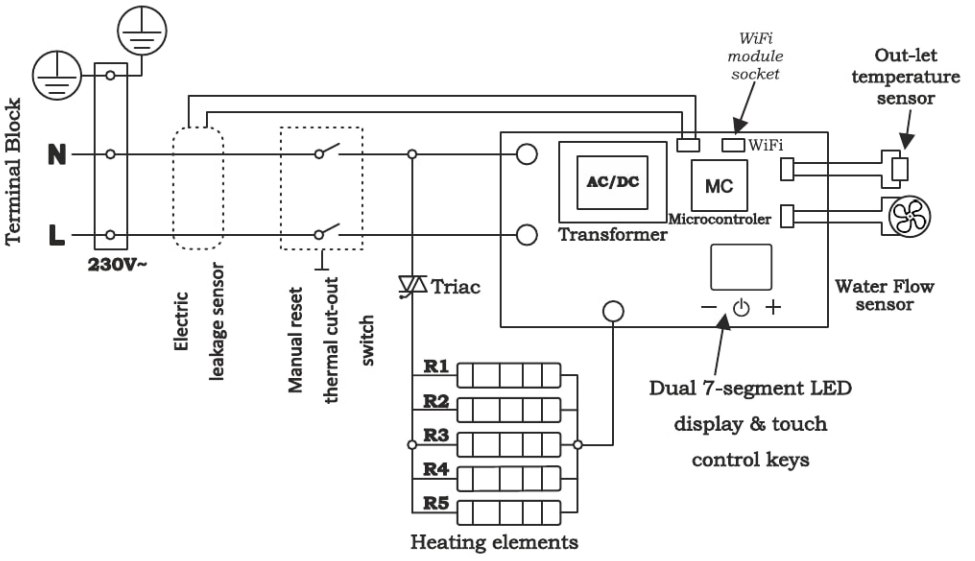
■ Product Features

- 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 algorith:
  - Over temperature protection algorith 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.

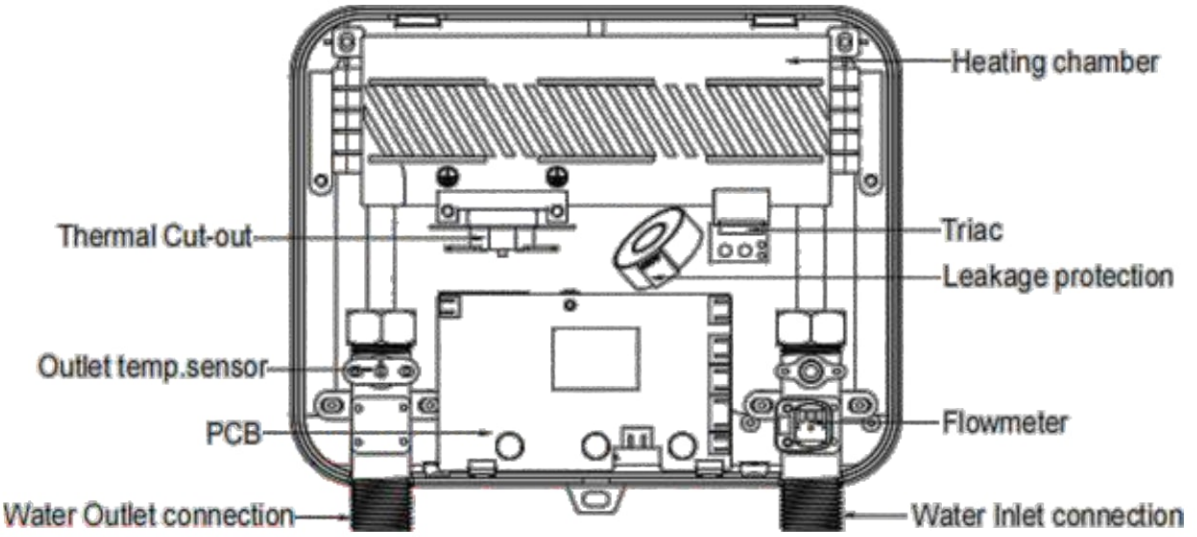
Technical Table

Model	K5
Rated Voltage	220V - 240V~ 50 / 60Hz
Rated Power	5.5kW @ 230V
Rated Current	23.9A @ 230V~ 50Hz
Power cord cross section	3*4.0mm²
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	212*170*54mm

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.

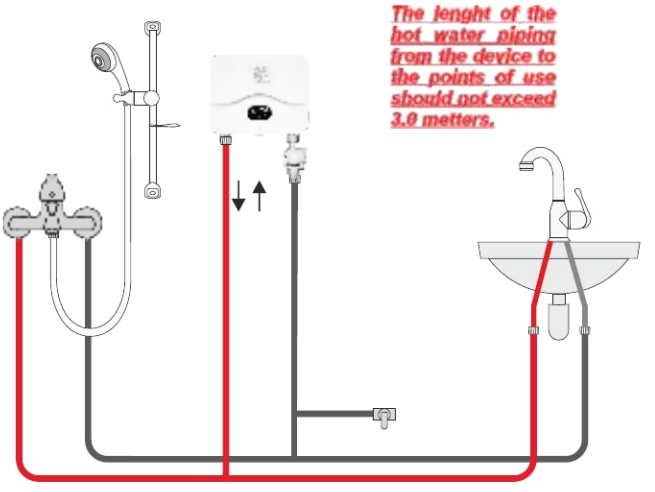
5. The appliance can be installed above or under the sink, in the shower or under the wash basin. It has to be mounted in a VERTICAL position near by the water fittings.

■Installation Method

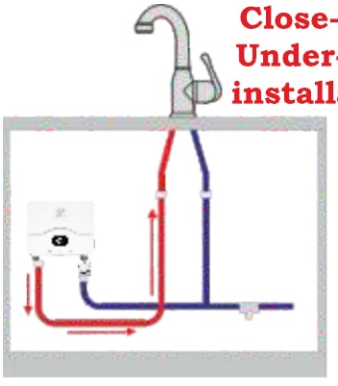
Open-Type



Close-type (multi-point)



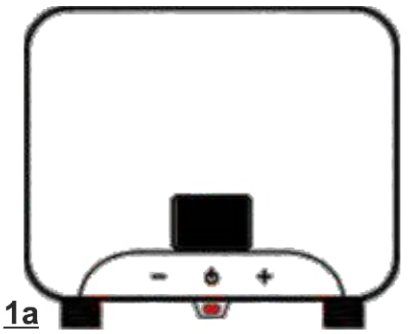
Close-type Under-sink installation



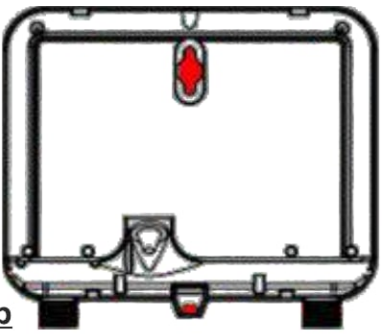
■Installation Method

• **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.**



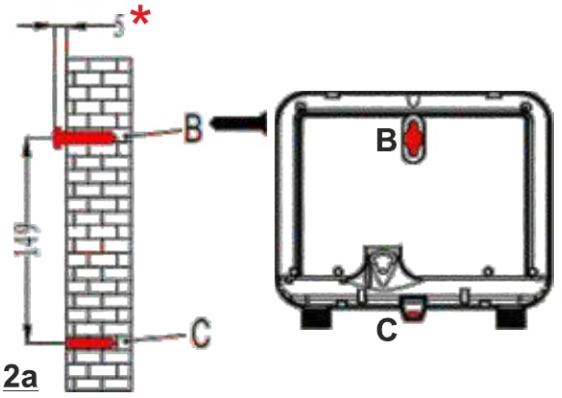
1a



1b

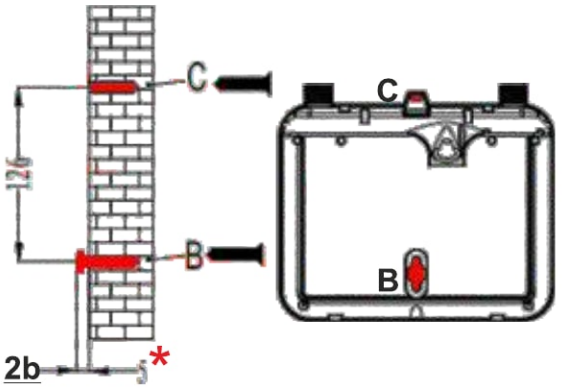
Before you drill the holes and proceed to the mounting you will have to choose one of the two orientation positions where the distances between the two holes differ on the vertical axis Fig. **2a**.(**149mm**) and Fig. **2b**.(**126mm**) respectively.

Upright Orientation



2a

Upside down Orientation



2b

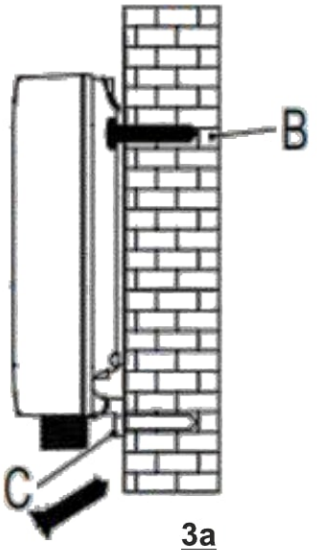
Measure the distance between position B and C depending on the orientation of the installation and make the holes **B** and **C** respectively using a 5.00mm diameter drill Fig. **2a**, Fig **2b**. Insert the plastic plugs in the holes and fix the hanging screw in **B** hole leaving *5mm distance between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

■Installation Method

• **Mounting The Unit**

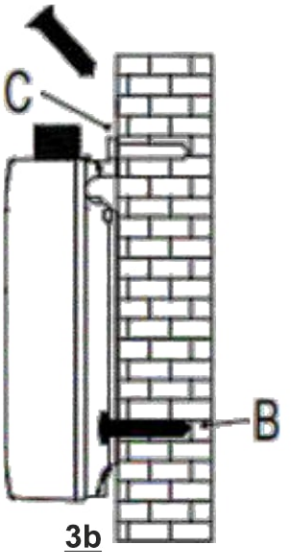
Mount the unit on the hanging screw, **B** hole, depending on the installation orientation Fig. **3a** or Fig. **3b** respectively and fix the screw in hole **C** tightly to secure the device.

Upright Installation



3a

Upside Down Installation



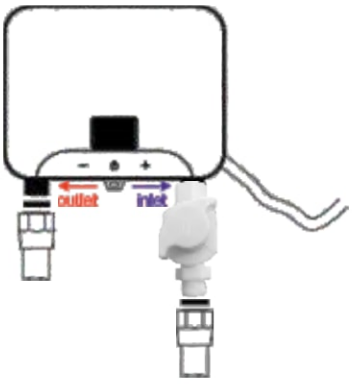
3b

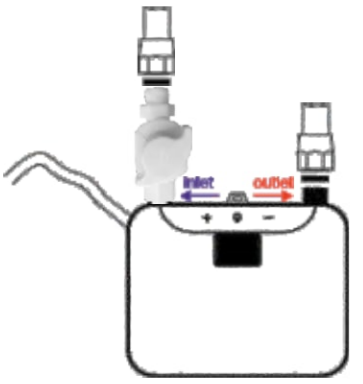
■Installation Method

• **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 G/12" 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.





■Installation Method

• 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 amd 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 secons. The display will instantly light up again if there is water flow our 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 witch on and it will return to it's last state.
-

■ Troubleshooting Table

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 malfunctionning.	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 stainer or the hand shower is clogged.	Clean or replace strainer and shower.
7. Error code E1 appears.	Outlet temp. is over 75℃.	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.*

Solcore
ΤΑΧΥΘΕΡΜΑΝΤΗΡΕΣ ΝΕΡΟΥ

DECLARATION OF CONFORMITY

CE

MANUFACTURER:	"SOLCORE" K&A KALATOUDIS G.P.
MANUFACTURER'S ADDRESS:	147 K. KARAMANLI AVE, GR542 49, THESSALONIKI, GREECE
NAME AND ADDRESS OF THE AUTHORISED PERSON WHO COMPILED THE TECHNICAL FILE:	MR. KALATOUDIS - 147 K. KARAMANLI AVE, GR542 49, THESSALONIKI, GREECE T. +30 2310 923130, F. +30 2310 923131
PRODUCT:	ELECTRIC INSTANT WATER HEATER
TYPE:	**K5**
SERIAL NUMBER:	
YEAR OF CE MARK:	2025
E.U. DIRECTIVES:	2014/35/EU, 2014/30/EU, 2013/812/EU, 2013/814/EU, 2011/65/EU
HARMONIZED STANDARDS:	EN 60335-1:2012+A11+A13+A1+A14+A2+A15+A16 EN 60335-2-35:2016+A1+A2 EN 62233 EN IEC 55014-1:2021, EN IEC 55014-2:2021 EN 61000-3-12:2011+A1, EN IEC 61000-3-11:2019 EU812/EU814, EN50193-1:2013

We hereby declare with exclusive responsibility that the above electric device has been designed and manufactured according to the above European Directive's requirements, and it can continue to meet these requirements if it is used and installed according to the attached instructions and/or rules and circumscriptions.

General Manager

Konstantinos E. Kalatoudis
Engineering Manager

SOLCORE
Κ. & Α. ΚΑΛΑΤΟΥΔΗΣ Ο.Ε.
ΕΜΠΟΡΙΑ ΤΑΧΥΘΕΡΜΑΝΤΗΡΩΝ
Κ. ΚΑΡΑΜΑΝΛΗ 147 - ΤΚ 542 49 - ΘΕΣΣΑΛΟΝΙΚΗ
ΤΗΛ.: 2310 92.31.30 FAX: 2310 92.31.31
ΑΦΜ: 997810178 - ΔΟΥ: Η' ΘΕΣ/ΝΙΚΗΣ

Date

Based on purchase date

Warranty Certificate

SOLCORE guarantees the proper functioning of the device accompanied by this warranty.

The guarantee is valid for two **(2) years** and a **Ten (10) Years *** special warranty is provided only for water leaks due to corrosion in the heater cast aluminum system.

The guarantee is valid from the date of purchase of the Electric Instant Water Heater from **SOLCORE** or affiliate store and in any case must be accompanied by the purchase documents.

The warranty is valid when you fill in all the empty fields in the "Warranty Coupon" and send it to "**SOLCORE**" within **ten (10) Days** from the purchase of the device.

This guarantee fully covers the replacement of parts and the labor during the period of **two (2) years** in order to restore the device in proper operating condition or complete replacement if deemed necessary by the technical support department.

***The **Ten (10) Years special warranty**, that applies only to the **cast aluminum heating system** covers only the replacement cost (spare and labor). Other components of the device that need replacement and their malfunction is not related with the defective cast aluminium heating system but with other factors and have overcome the Two (2) Years of operation, they normally charged along with labor to replace them.

The shipping of the device from the owner's location to the repair department of **SOLCORE** and vice versa is done with responsibility and expenses of the owner.

Warranty Coupon

Please fill out the warranty coupon and send it in our company within ten (10) days from the purchase of the device.

Model Type: ..... Serial Number(S/N): .....

Purchase Location ..... Purchase Date .....

Customer's Full Name: .....

Address: .....

Telephone: ..... Cell Phone: .....

Store of purchase: ..... Installer's Details: .....

Customer's Signature

Installer's Details

The customer and the Installer confirm with their signatures that the device is working properly.

Warranty Terms

THE WARRANTY DOES NOT COVER:

- **Damage due to poor installation.**
- **Damage due to misuse.**
- **Any transport damage.**
- **Damage due to frost.**
- **Damage due to intervention by a person not authorized by the "SOLCORE".**

The guarantee also become invalid in cases where there are obvious signs of violation of the components that make up the device (scratches on electronic boards, curled contacts or connections etc.), and if you remove the identification label attached to the side.

"SOLCORE" K&A Kalatoudis G.P.

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