

Electric Tankless Water Heaters

Three Phase Electric

Instant Water Heater

T18

(INVERTER)

255 smart power

Installation Instructions
&
User's Manual



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Package Contents

1) Instant Water Heater



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



3) Set of cable gand & screws



	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.

Warning

- **The installation must be in compliance with the National Electrical Code, your local electrical and plumbing codes.**
- **The instant water heater must be EARTHED.**
- **All wiring and installation must be supervised by a qualified electrician.**
- Check the flow capacity of the electric wire before installation.
- Install the anti-leakage air switch, and turn it off when not using the water heater.
- Assemble the water heater to the area free of frost.
- Forbid to power on if there is any freeze.
- Check first if the water comes out or not from the water heater when new installation and long time no working, then power on.
- Must not install near combustible, should be installed vertically. Discharge the dust inside the tube before connecting the power.
- Forbid to use the water heater for multi-channel water supply. Turn off the inlet valve when out of service for long period.
- Power the water heater off when there is any thunderstorm.
- The professional should maintain the water heater with exclusive fittings when any damage.
- Adjust the inlet valve and keep the water yield correctly. Please decrease the water flow to increase the water temperature while the water temperature is not enough although with the highest work gear.
- Who with poor health, slow-witted and mental disorder are not allowed to use the water heater unless with help.
- To prevent freeze, please evacuate the water inside the tube when out of service for long period.
- Install the strainer and descale the water heater regularly in case of any debris.
- Please check the water temperature carefully before use in case of scald.

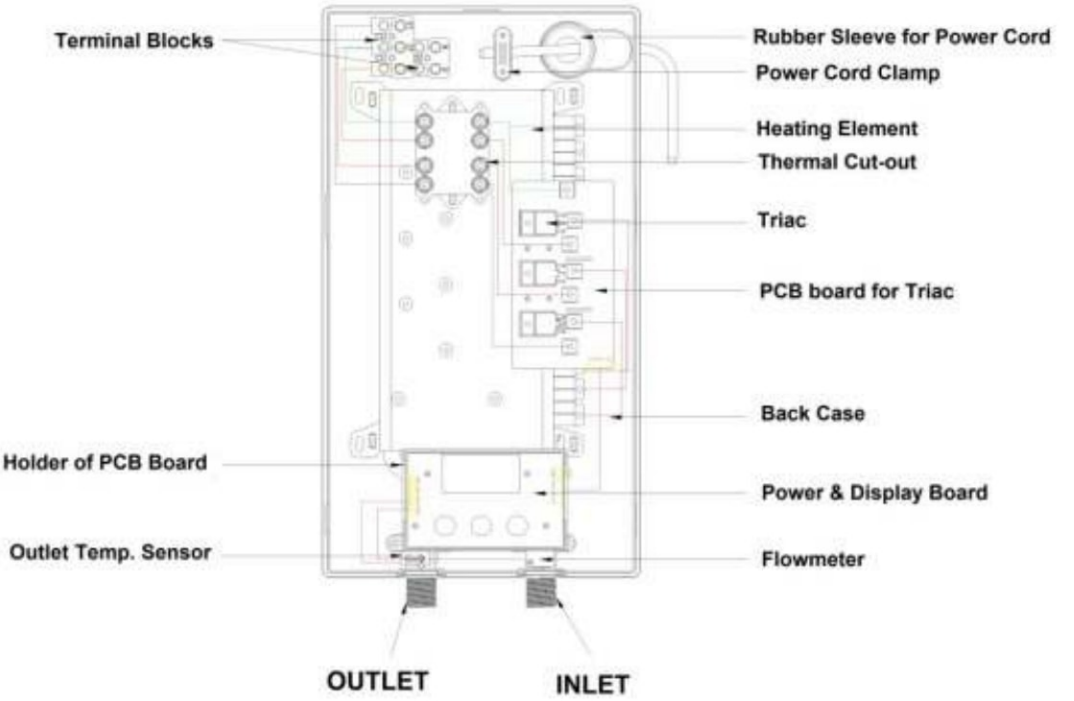
Product Features

1. The electric instantaneous water heaters are incorporated with patent heating technology.
2. Instantaneous heating for on demand hot water, no pre-heating, no stand-by heating loss. energy-saving.
3. Micro-computer control, adopting patent heating technology. Water is completely separated from electricity by multi-layers of composite nano insulation material.
4. Over temperature protection: When the outlet water temperature exceeds 68℃, the appliance will enter into pause mode until the outlet temperature drops under 60℃ that will resume heating.
5. E1 will appear on the display when the outlet water temperature exceeds 75℃.
6. E3 will appear on the display when each of the temperature sensors or both of them are malfunctioning resulting the device to stop working permanently.
7. Dry-heating thermal cut-off. When the heating temperature exceeds 90℃, there will be a power cut off by isolating the device directly from the 3-phases and the neutral of the mains power supply.
8. Micro-computer automatic electricity and water consumption calculating function.

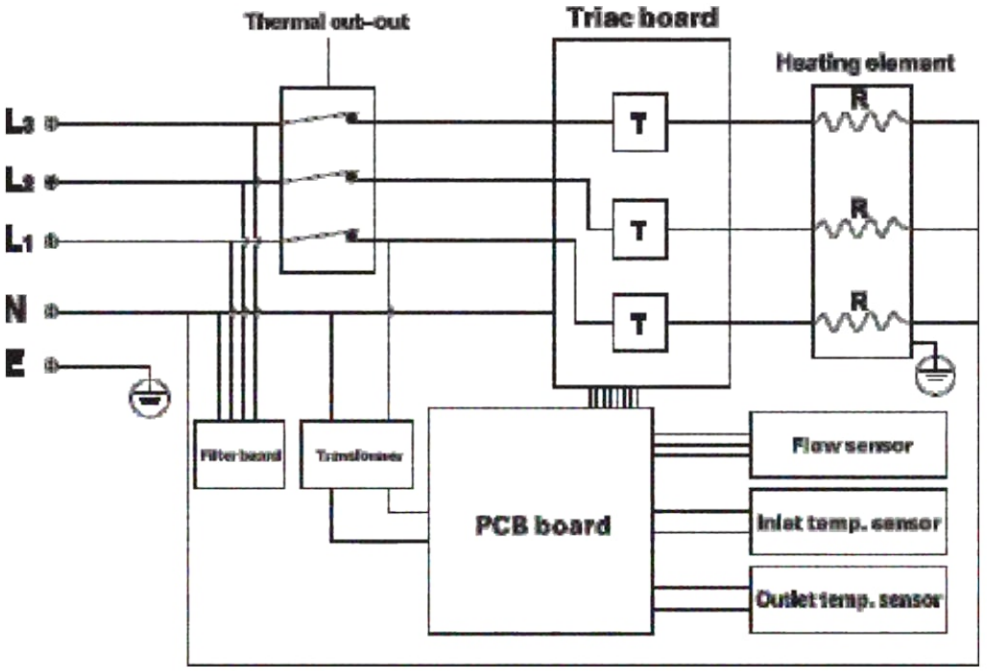
Technical Data

Model	**T18**			
Voltage	400V 3～ / 50Hz			
Power	9	12	15	18
Rated Current	3x13A	3x17.3A	3x21.7A	3x26.0A
Fuse Rated Current	16A	20A	25A	32A
Connection Wire Section	5x2.5mm^2		5x4.0mm^2	5x6mm^2
Temp. setting range	30-60℃			
Overheat protection	72℃			
Thermal cut-out (Manual reset)	90℃			
Safety Class	IP25			
Working Pressure	0.02-0.6MPa			
Efficiency Δt=30°C	4.3L/ min	5.8L/min	7.2L/min	8.7L/min
Inlet and outlet section	G1/2”			
Product Size	396*220*88mm			

Product Inner Structure



Electrical Diagram



■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 condition, ammeter and wire reach the standard of installation requirement.
3. The appliance must be connected to properly grounded dedicated branch circuits 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 heater, please switch off the circuit breaker.
5. **DO NOT** install this appliance near to tinder or strong magnetic field place. The unit must only be mounted in a VERTICAL position near by the water fittings. Please electrify try the machine after getting through waterway.

■Installation Method

●Fixed installation on the wall

Locate an appropriate place on a section of wall as above mentioned.

Fig 1 ⟶ Front and back of the appliance.

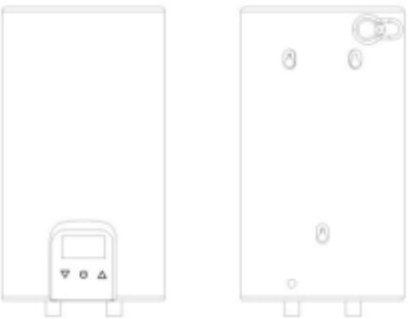


Fig 2 ⟶ Use a cross screwdriver to remove the screw at point **A**, then use a straight screwdriver to insert into the 2 holes at point **B** and pry up lightly, the front case will be easily removed.

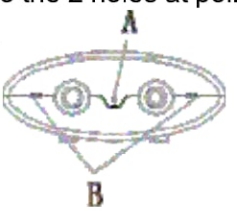


Fig 3 ⟶ Open the front case, please remove the rubber sleeve for wire, for convenience of the wire passing through the rubber sleeve, please cut the end of the rubber sleeve according to the wire size.

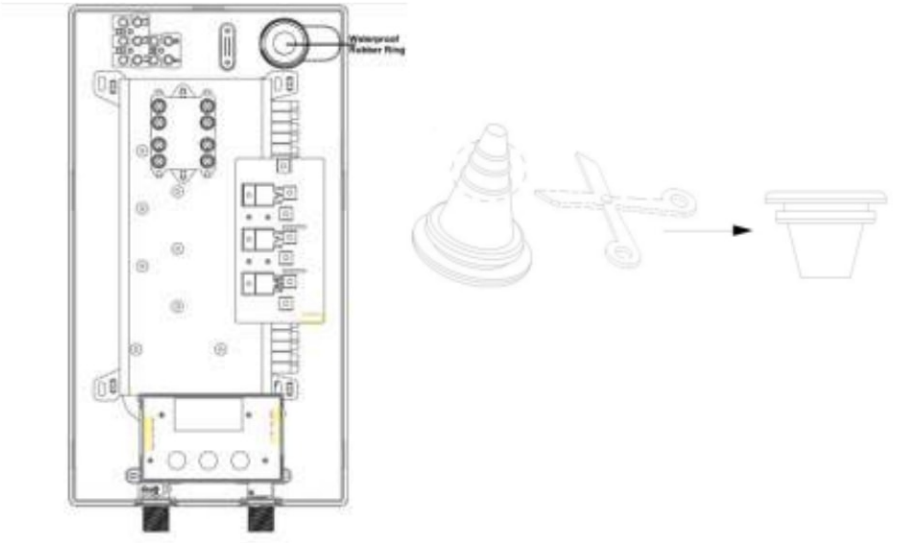


Fig 4 ⟶ Then connect power cable to the terminal blocks with L1, L2, L3, N and E in pointed position.

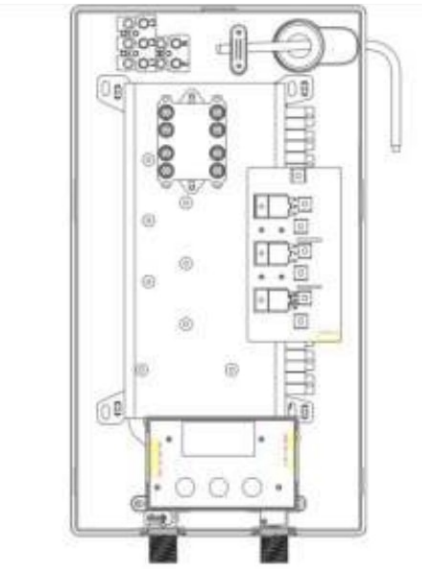


Fig 5 ⟶ Fix the front cover on the appliance, then nail the screws to fix the front cover.

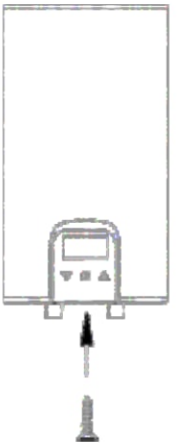


Fig 6 ⟶ Use the cardboard to make 3 mark for punching; then drill 3 hole with 6mm diameter, and insert 3 expansion screw in the wall and put 4*25mm self-tapping screw into the expansion screw.

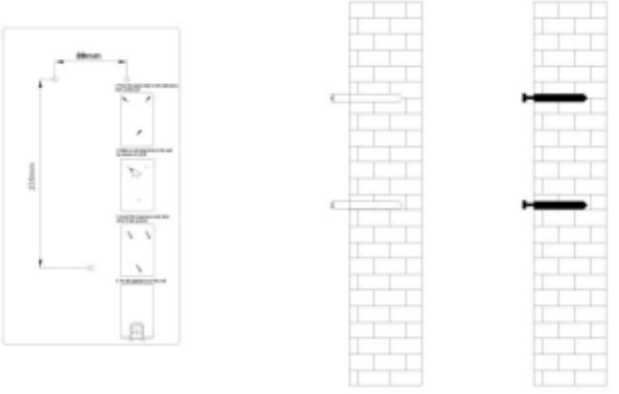


Fig 7 ⟶ Fix the application on the wall.



Fig 8 ⟶ Connect the water pipe to the water inlet and water outlet connections, please remember to install the rubber seal ring.



•Water connections

1, All water pipe must comply with national and applicable state and local water pipe codes.

2, The unit should be connected directly to the main water supply. Flush pipe with water to remove any debris or loose particles.

3, It is required that use G1/2 " water connections to fit all the models.

4, Please remember to install rubber seal rings at the connections. When all water connections are completed, check for leaks and take corrective action before proceeding.

•Electrical connection

1, All electrical work must comply with national and applicable state and local electrical codes

2, All unit must be connected to a properly grounded dedicated branch circuit of proper voltage rating.

3, All the models can be connected to a single circuit, use a supply cable protected by a double pole breaker

4, While fed the cable to terminal blocks, please make sure the metal wire ends and the terminal blocks to touch completely. Then tighten the screws up to make sure the full current can go through.

5, Before beginning any work on the electric installation, be sure that main breaker panel switch is OFF to avoid any danger of electric shock, all mounting and plumbing must be completed before proceeding with electrical hook-up.

Operation Instructions

1. Turn on the circuit breaker to bring electrical power to the unit.
2. Open 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.
3. After the unit is supplied with power, a beep sound can be heard and LED lights for 2 seconds, no other display, the appliance enter the standby mode.
4. 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. stop operating for 15 seconds, the screen switch to the screen saver mode. the display screen will be light off. If there is touch to the screen, the screen will light again.
5. Press ^ and v to adjust the outlet temperature. Temperature setting range is 30--60°C.

- If the unit is paused, you may initially get a short burst of very hot water while you turn on again. Please run the water through for a few seconds to let the temperature settle down. Please check hot water with hand before taking a shower.
- If the unit will not be used in winter, drain out water completely to avoid freezing.
- Please periodically clean the inlet strainer and the shower head to keep normal water flow.

6. There is an automatic memory function to avoid repetitive operation, while you turn on the appliance, the default set temperature will be the same as last time set.

Power* Setting kW-(Code)	Current (Amps)
9-(127)	16 - (16A)
12-(170)	17 - (20A)
15-(212)	22 - (25A)
18-(250)	26 - (32A)



Turn off the device if it is put into standby mode. Press and hold the (increase △) key until a three-digit number (power code) appears on the screen. Consult the table above for the desired maximum power and select with the (increase △ / decrease ▽) keys the corresponding power code. Wait a few seconds for a sound to be heard for your selection to be registered. The device is programmed at the desired maximum power and is ready for use.

■Trouble-shooting

Problems	Possible Causes	Corrective Actions
1. Inlet and outlet fittings leaking	A. Fittings not tight B. Rubber washer worn-out	A. Tighten fittings. B. Change rubber washer.
2. LED no signal	A. Power not connected. B. LED damaged.	A. Connect power to the unit. B. Change LED.
3. Functional keys not working	A. No water out from shower. B. Water pressure too low. C. Key or PCB damaged.	A. Turn on valve to get water. B. Turn on valve to get pressure. C. Change key or PCB.
4. Water too hot	A. Too high temperature set. B. Water flow too small.	A. Set a lower temperature. B. Open valve bigger.
5. Water too cold	A. Low temperature set. B. Water flow is too much.	A. Set a higher temperature. B. Reduce water flow.
6. Outlet gets water smaller and smaller.	Inlet strainer or shower clogged.	Clean strainer and shower.
7. LED displays E1	Outlet temp. is over 75℃.	A, Reduce the temperature B, Turn up the water flow
8. LED displays E3	A, the connecting wire loose. B, Temperature sensor failure	A, Plug in the connecting wire tightly. B, Replace the temperature sensor

■Normal Maintenance

Note: Do not attempt to repair this water heater yourself. call a service person for assistance. Always shut off the power supply while operating maintenance.

It is not required any regular maintenance. However, to ensure consistent water flow, it is recommended following maintenance.

1, Periodically remove scale and dirt that may build up at the aerator of the faucet or in the shower head.

2, 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.

DECLARATION OF CONFORMITY

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:	**T18**
SERIAL NUMBER:	
YEAR OF CE MARK:	2022
E.U. DIRECTIVES:	2014/35/EU, 2014/30/EU, 2013/812/EU, 2013/814/EU, 2011/65/EU
HARMONIZED STANDARDS:	EN 60335-2-35:2016 + A1:2019 EN 60335-1:2012 + A11:2014 + A13: 2017 + A1: 2019 + A14: 2019 + A2: 2019 EN 62233: 2008 EU812/2013, EU814/2013, EN50193-1:2016

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

Date

Based on purchase date

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

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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tachytherm
by Solcore

