



hot water instantly & economically!!!

**F1D Single-phase
Constant Temperature
(INVERTER)**

**Single-point
or
Multi-point**

Hybrid Connection Ready

**3 in 1
SMART POWER**



**Installation Instructions
&
User's Manual**



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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1) Instant Water Heater



2) Triple spray shower handle



3) stainless steel shower hose



4) Water flow regulator & rubber washer



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



6) Set of cable gland & screws



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Warning

- This appliance can be used by children aged from 8 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 instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.
- A disconnection incorporated in the fixed wiring is to be provided
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- **WARNING:** Do not switch on if there is a possibility that the water in the heater is frozen.
- The outlet must not be connected to any tap or fitting other than those specified.
- The conductors of cables to fixing wiring shall have a nominal cross-sectional areas at least 4.0mm².

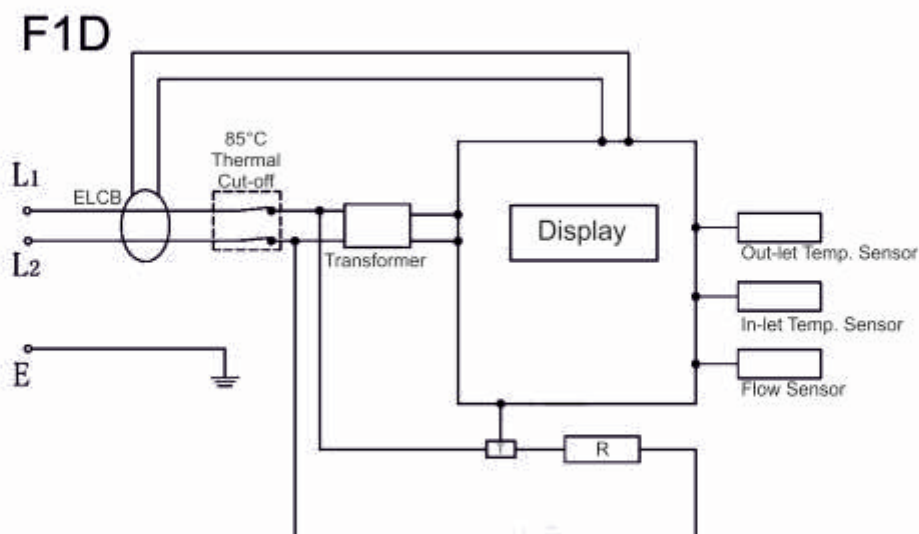
	Correct disposal of this product
	This symbol on the product, or in its packaging, indicates that this product may not be treated as household waste. Instead, it should be taken to the appropriate waste collection point for the recycling of electrical and electronic equipment. By ensuring this product 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.

Safety Attention

- ◆ 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.



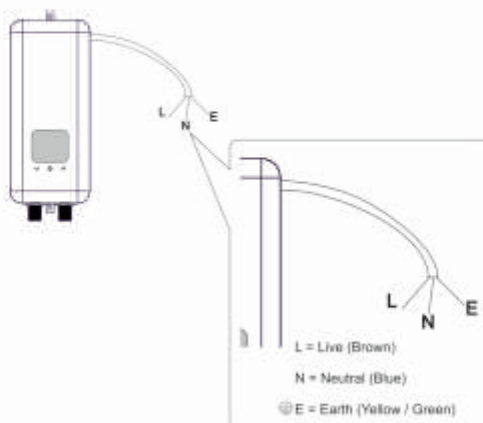
Remark: T= TRIACS

R= Resistances

ELCB = Electricity Leakage Sensor

Electrical Installation

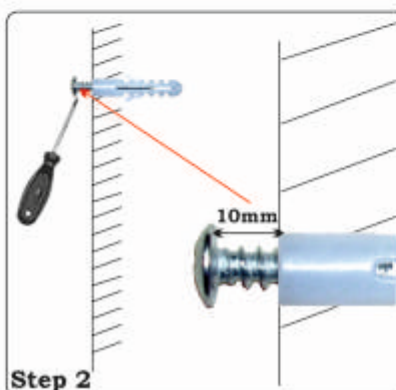
1. Please put a strainer on the inlet.
2. Use the exclusive electric wire and single phase transition power with 220V-240V/50Hz-60Hz.
3. Maintain or replace by professional when the power is damaged.
4. Connect the reliable ground wire. The ground wire and zero wire should be strictly separated.



Model	F1D
Rated Voltage	220 - 240V~ 50Hz
Rated Power	5.5kW @ 230V~ 50Hz
Rated Current	25A @ 230V~ 50Hz
Connecting Wire Section @ 7.0kW	3*4.0mm ²
Rated Pressure	0.05MPa - 0.6MPa
Min. Air Switch	≥40Amps
Required Electric Meter	40Amps
IP Class	IPx5
Temperature Setting	25°C - 55°C / 77°F - 131°F
Overheat Protection	60°C / 140°F
Thermal Cut-out	95°C / 185°C
In-let & Out-let Section	G1/2 Male
Min activation flow rate	1.2 - 1.5 L/min / 0.32 - 0.40 Gallon/min
Max water flow rate	4.5 L/min / 1.11 Gallon/min
Product Size	305*130*70mm

Installation Method

1. Choose the suitable position and height in the same level on a strong wall and drill the holes with a $\Phi 6$ -8mm drill.
2. Insert the plastic plugs into the hole and tighten the screws, make sure the distance towards wall is **6-8mm**.
① Screw ② Rubber plug
3. Attach the flow regulator on the in-let pipe and tighten the screw on the bottom of the device.



● Water Connection

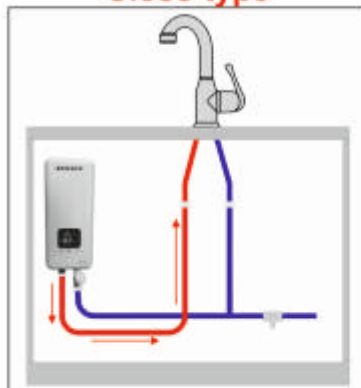
The maximum inlet water pressure, in pascals-----0.6MPa

The minimum inlet water pressure, in pascals, if this is necessary for the correct operation of the appliance-----0.05Mpa

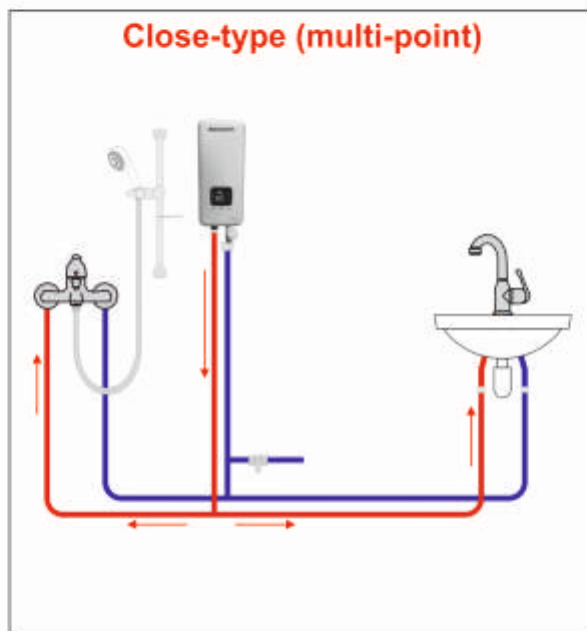
Open-Type



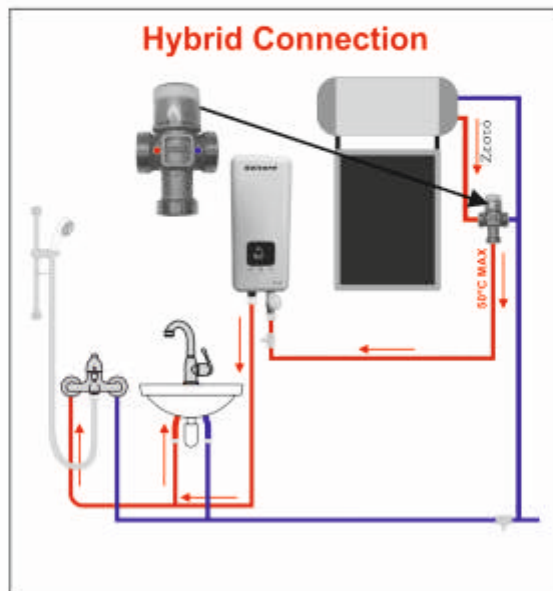
Close-type



Close-type (multi-point)



Hybrid Connection



1. Turn on the main power supply, it shows spray on display  , which called standby status, convenient for customer when F1D is installed under the sink.

2. Press both button  &  at the same time, then it will show  or .

 means "power setting model"  means "constant temperature setting model"

3. Then press power button: , now it is ok for you to press  or  to set any power (totally 10 gears available) or temperature you want.

A. Once temperature is set, you will find that temperature will be blink 3 times. Then come back to another temperature, which it is the inlet water temperature.

B. Finally, when it works, the temperature will slowly change into your setting power or temperature.

4. Setting limited power: On standby status , press  in 5 seconds, it will show , you can

touch  one time, it will show ; then touch  again, it will show . Here "55", "45", "35" means "5.5kw", "4.5kw" & "3.5kw", which makes F1D to work under this setting limited power, no more power than it. And it also has 10 gears available when it was on power setting status. It also has temperature range from 25C to 55C for choosing when it was on constant temperature setting status.

5. **Sleeping mode:** When no water inlet or water stop suddenly, it will show "". 4 mins later, it will turn

to standby status :  and then once water flow, it is automatically come back to the setting mode before water stop, as it has remember function.

It will stop heating when the outlet water temperature is higher than 55°which is checked by the sensor. And it will begin heating when the outlet water is lower than 55°. The system will cut off the power when the outlet water temperature is higher than 55°and give an alarm to show the fault.

Fault Display Code:

- a. Electric leakage display: if the current is over 20ma, it starts the protection within 0.1second, and the fault code shows "E1".
- b. Over-temperature fault: When the outlet water is higher than 75 degree which checked by the sensor, the fault code shows "E2".
- c. Outlet water temperature sensor fault shows "E4".
- E. Inlet water temperature is higher than 50C, the fault code shows "E5".

Installation of the circuit must be finished by the professional strictly:

1. Be careful to connect the inlet tube in case of any damage to the water heater.
2. Please put a strainer on the inlet.
3. Use the exclusive electric wire and single phase transition power with 220V-240V/50Hz-60Hz.
4. (1). Outlet pipe is connected to air, any controller is not allowed to be installed.
(2). Unscrew the inlet pipe, let the inlet pipe connected to air, then water inside is drained.
5. Maintain or replace by professional when the power is damaged, connect the reliable ground line. The ground wire and zero wire should be strictly separated.

Fault Diagnosis & Error Codes

Symptom	Probable Cause	Possible Measures
1. Water leakage from the connection to inlet or outlet pipe	A. Its connection is not installed well B. the rubber gasket on the connection is damaged	A. Re-install its connecton B. Replace the new rubber gasket
2. No display showing	A. No power B. Display is broken down	A. Ensure power on B. Replace the new display
3. failure of the touch button	A. Touch button or PCB is broken down	A. Change the new touch button or PCB
4. Too high water temperature	A. Too high power setting B. Too low water flow	A. Adjust the setting power to be lower B. Increase the water flow
5. Too low water temperaure	A. Too low power setting B. too high water flow	A. Adjust the setting power to be higher B. Decrease the water flow
6. Less and less of the water flow	A. Inlet filter or shower head blocked B. Inlet water rubber plug curl C. Too much thread seal tap blocked	A. Remove and clean filter or shower head B. Replace the new rubber plug C. Re-wrap the thread seal tap
7. No hot water, shows standby status	A. Water flow switch does not start yet B. Too low inlet water pressure	A. Replace the new water flow switch B. Open the water pressure valve, increase water pressure
8. LED display show "E1"	Electric leakage, the heater is completely power off to protect	Call professional maintenance for help
9. LED display show "E2"	Outlet water temperature is higher than 75C which is checked by the sensor	Call professional maintenance for help
10. LED display show "E4"	Out-let temperature sensor is damaged.	Call professional maintenance for help
11. LED display show "E5"	Inlet water temperature is over than 50C	Call professional maintenance for help

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: FID

SERIAL NUMBER: _____

YEAR OF CE MARK: 2015

E.U. DIRECTIVES: 2014/35/EU, 2014/30/EU, 2011/65/EU

HARMONIZED STANDARDS: EN 60335-2-35:2002+A1:2007+A2:2011,
EN 60335-1:2012 + A11:2014, EN 62233:2008,
EN 61000-3-11:2000, EN 61000-3-12:2011,
EN 55014-1:2006+A1:2009+A2:2011,
EN 55014-2:1997+A1:2001+A2:2008

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 - Τ.Κ. 542 49 - ΘΕΣΣΑΛΟΝΙΚΗ
ΤΗΛ.: 2310 92.31.30 FAX: 2310 92.31.31
ΑΦΜ: 997810173 - ΔΟΥ: Η' ΦΕΣ/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.

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Thessaloniki, Greece

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