

# INSTANTANEOUS ELECTRIC HOT WATER

6.3kw | Single Phase (1-Phase)





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## 1. PREFIX

This manual contains important information about the installation, operating and maintenance of Fala Instantaneous Water Heaters. Please pay close attention to the important safety information shown throughout this instruction manual. Any safety information will be accompanied by the following safety alert symbols:

 DANGER,  WARNING,  IMPORTANT

- READ THIS MANUAL CAREFULLY before installing or servicing this product.
- Improper installation, operation, or maintenance can result in death, severe injury, or property damage.
- This appliance is intended for 220-240 Volt power supply.
- **Installation MUST be carried out by a licensed and authorised technician in accordance with local electrical and plumbing codes.**
- **Keep these instructions for later use. If the appliance is transferred to another owner, ensure these instructions are provided with it.**

## 2. IMPORTANT NOTES AND WARNINGS



### IMPORTANT

- Read all instructions before installing or using this appliance.
- Installation must be performed by a qualified technician in compliance with AS/NZS 3500.4, Clause G12 of NZ Building Code and all other current national and local regulations.
- Retain this manual for future reference.
- Use this appliance only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock or injury to persons.
- Improper installation, adjustment or alteration and failure to follow the warnings and instructions in this manual could result in severe personal injury, death or property damage.
- The manufacturer is not responsible for any damage that could happen from improper use. The manufacturer emphasises that this appliance should be used in a responsible manner and that all procedures, warnings, and safety instructions contained in this booklet be followed strictly.
- Check the appliance for damage. Do not operate a damaged unit.
- Check for damage to the appliance regularly. If damage to the appliance is suspected, discontinue use immediately and contact the supplier.
- **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.**
- Keep packaging material out of reach from children.
- **Children should be carefully supervised to ensure that they do not play with the appliance.**
- Do not attempt to alter the appliance in any manner.
- **FOR CONTINUED SAFETY OF THIS APPLIANCE IT MUST BE INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.**
- **WARNING - THIS APPLIANCE MUST ONLY BE INSTALLED IN ACCORDANCE WITH THE ACCEPTABLE PLUMBING CONFIGURATIONS SPECIFIED IN THESE INSTRUCTIONS. FAILURE TO DO SO MAY RESULT IN CONDITIONS WHERE DELIVERY TEMPERATURE CONTROL IS INADEQUATE.**
- **THIS APPLIANCE MAY DELIVER WATER AT HIGH TEMPERATURE. REFER TO THE PLUMBING CODE OF AUSTRALIA (PCA), LOCAL REQUIREMENTS AND INSTALLATION INSTRUCTIONS TO DETERMINE IF ADDITIONAL DELIVERY TEMPERATURE CONTROL IS REQUIRED.**
- **Water with a temperature higher than 40°C has the potential to cause serious burns.**
- **THIS APPLIANCE DELIVERS WATER NOT EXCEEDING 45°C IN ACCORDANCE WITH AS 3498.**
- Do not perform maintenance until the appliance has been turned off and power disconnected.
- Do not operate the appliance with panels or labels removed.
- In the case of a fault involving any sensor or component, no user action is required. Please contact the Fala service centre for support
- Incorrect installation or operation that does not follow the guidelines in this manual can cause performance issues, sealing or mounting problems, and voiding of warranty. Using the heating system in a way other than its intended function is considered improper operation
- Clean the appliance with a damp cloth only. Harsh or abrasive cleaning agents can damage the IPX4 seal, corrode mounting components and void the warranty
- Limescale buildup inside the heater can lead to early component failure. Warranty claims arising from this condition will not be accepted. The heater and related tapware must be descaled at regular intervals to prevent scale accumulation
- Avoid placing the appliance outdoors, in direct sunlight, or in environments with large temperature changes or harsh conditions, as this can damage the unit and void the warranty
- Avoid directing high-pressure water at the appliance. Doing so can damage the seals and void the warranty.

- Routine inspection is recommended every 3–6 months. If the unit remains unused for three months or longer, it must be purged before recommissioning.
- If the appliance has not been used, or will not be used for a long period of time, disconnect power supply.
- Heater installation, electrical and hydraulic/plumbing work must be performed by a qualified technician.
- The 5.5 kW water heater unit must be installed in a closed, frost-free room. Disconnected units should be stored in a frost-free location, as residual water will always remain inside. Install the unit vertically on a wall with water connections facing downwards.
- This appliance is suitable only for domestic and similar applications in enclosed rooms. It must be used solely to heat incoming mains water.
- Install the appliance vertically and near the draw point. Mounting configuration must be according to the heater’s model. Installation and use of the heater in opposite/incorrect configuration will cause permanent damage to the appliance.
- **Do not connect the heater to the electric mains until the tank is filled with water and all water connections are tight.**
- Do not operate the appliance when the water has been emptied from the unit or pipes.
- The water inlet of this appliance shall not be connected to outlet water obtained from any other water heating system.
- This appliance must not be used as a dedicated source of heated potable (drinking) water.

### 3. PRODUCT OVERVIEW

Part number	2850111	2850112	2850113	2850114	2850115	2850116	2850117
Type	Instantaneous						
Voltage, V	230V	230V	230V	230V	230V	230V	230V
Rated Power, kW	3.0kW	3.5kW	4.0kW	4.5kW	5.0kW	5.5kW	6.3kW
Rated Current, A	13	16	18	20	22	24	28
Hot Water Delivery, L/min (at $\Delta T=20^{\circ}\text{C}$ )	2.5	2.8	3.1	3.4	3.7	3.9	4.4
Min. Flow Rate, L/min	2	2	2	2	2	2	2
Max Inlet Pressure Rating, kPa	750	750	750	750	750	750	750
Min Inlet Pressure Rating, kPa	100	100	100	100	100	100	100
Temperature, $^{\circ}\text{C}$	45 $^{\circ}\text{C}$ Maximum, non-adjustable						
Dimensions, mm	270mm W x 245mm H x 60mm D						
Weight, kg	2.5kg	2.5kg	2.5kg	2.5kg	2.5kg	2.5kg	2.5kg
IP Rating	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4
Water Connections	G1/2" Male						

**Note:** Actual outlet temperature depends on the incoming mains water temperature and the flow rate.

## 4. INSTALLATION



### WARNING

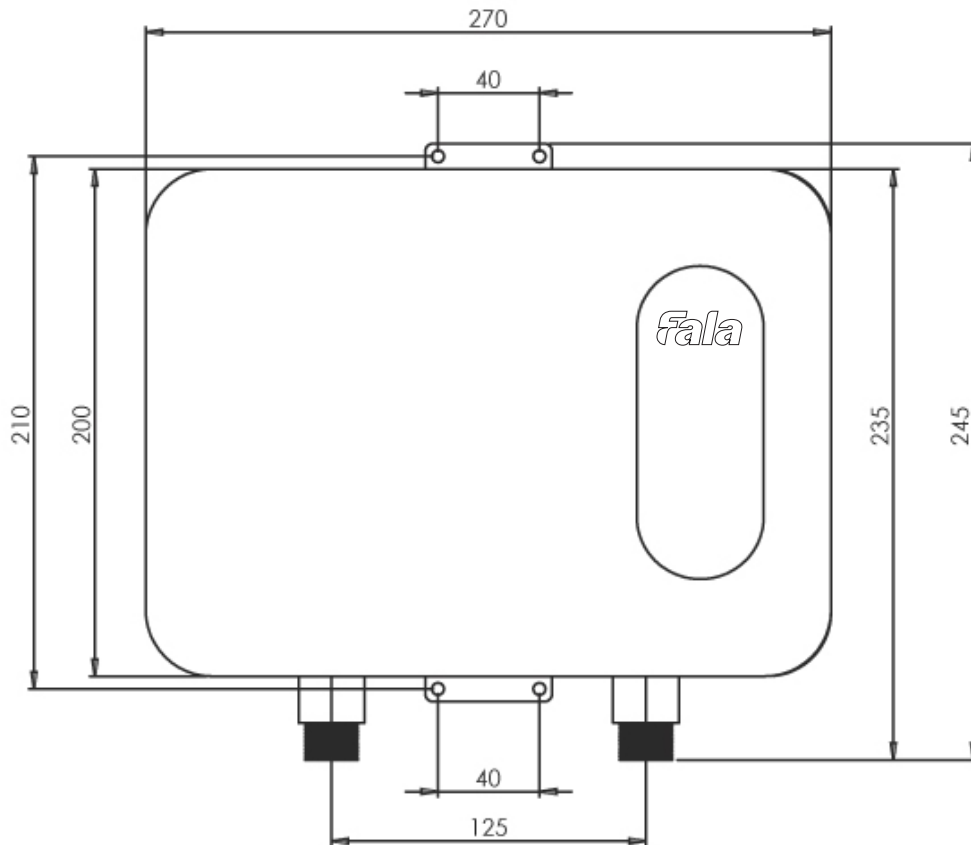
- For appliances with direct electrical connections, an all-pole disconnecting device—with a contact opening width of at least 3 mm per phase—must be installed at the supply end, per Australian wiring rules AS/NZS 3000.
- Install the appliance with the water connectors vertically downwards for direct connection to the sanitary tap.
- Firmly secure the unit to the wall using the supplied screws and dowels. Operate the appliance only after it is properly mounted.
- **Installation must be performed by a qualified technician in compliance with AS/NZS 3500.4, Clause G12 of NZ Building Code and all other current national and local regulations.**
- The heater should always be vented before initial start-up. Vent the heater each time after the water has been emptied from the heater or pipes. See 'Venting' Section 5.1.
- The 5.5 kW water heater unit must be installed in a closed, frost-free room. Disconnected units should be stored in a frost-free location, as residual water will always remain inside. Install the unit vertically on a wall with water connections facing downwards.
- The appliance should be mounted in a way that it can be easily accessed.
- **Do not connect the heater to the electric mains until the heater is vented and all water connections are tight.**
- **Appliance is not to be installed in locations where freezing can occur.**
- This appliance must not be used as a dedicated source of heated potable (drinking) water.
- **Do not operate the unit if any labels have been tampered with.**

### 4.1 HEATER MOUNTING AND WATER CONNECTION



#### IMPORTANT

- **Failure to install the filter on the water supply pipe may cause damage to the heater.**
- Do not use vented taps.
- Ensure that the water pipe materials are compatible, taking into account inlet and outlet temperatures.
- **Minimum flow rate for the appliance is 2L/min.**
- **The water inlet of this appliance shall not be connected to outlet water obtained from any other water heating system.**
- **Take note of the maximum flow/temperatures when connecting the appliance to multiple outlets.**
- **Install the appliance vertically and near the draw point. The water connections must be located at the bottom.**



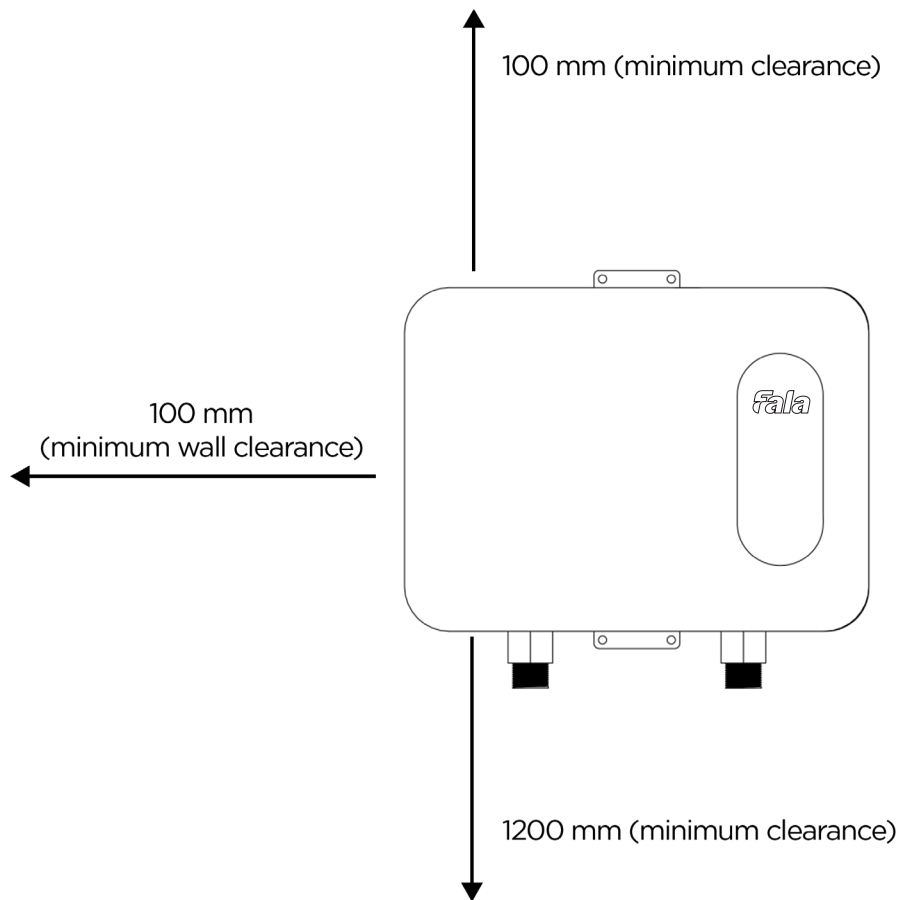
#### INCLUDED IN PACKAGE:

- 1x water heater with pre-attached bracket (do not remove this)
- 1x installation kit containing screw and masonry plugs
- 1x instruction manual

#### PLEASE NOTE:

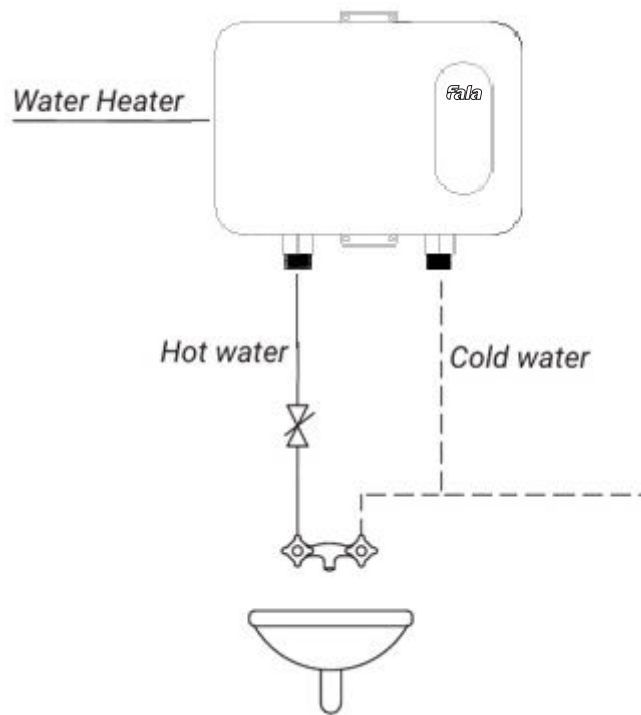
- Mount the appliance to a wall capable of supporting its full weight when filled with water.
- Supplied screws are for general use only. The installer must provide suitable wall fasteners capable of supporting the appliance's full weight when filled with water. Do not operate the appliance unless it is securely mounted in this manner.
- Do not apply any mechanical force to the appliance, such as from piping or connected fittings.
- This unit is designed for hardwired wall connection only.
- Use a spanner to support the brass fitting while tightening the water hose onto the fitting.
- Any attempt to access or open the heater enclosure at any time compromises the IPX4 sealing and voids the warranty.
- Modifications to the appliance, electrical leads, or water connections are not permitted and will void the warranty.
- **DN15 piping is recommended.** To minimise heat loss, the distance between the heater and the outlet should be between **0.5 m and 6 m**. All hot water pipework must be insulated in accordance with **AS/NZS 3500**.
- The outlet temperature must be verified before commissioning. Avoid placing the appliance outdoors, in direct sunlight, or in environments with large temperature changes or harsh conditions, as this can damage the unit and void the warranty.
- Avoid directing high-pressure water at the appliance. Doing so can damage the seals and void the warranty.

# INSTALLATION CLEARANCE DIAGRAM



Floor

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- Choose an appropriate location for the heater installation.
- Mark the points for drilling holes – mounting screws, water inlet/outlet and power supply.
- Connect the unit to the water supply
  - a. RHS, Cold water inlet ⇒ Cold water from water supply.
  - b. LHS, Hot water outlet ⇒ Hot water to taps and showers.
- After installing the water connections, open water supply and hot water tap. Wait until the water starts running at a constant and even flow from the tap.
- Check connections for leaks.

**Note: DN15 piping is recommended.** To minimise heat loss, the distance between the heater and the outlet should be between **0.5 m and 6 m**. All hot water pipework must be insulated in accordance with **AS/NZS 3500**. The outlet temperature must be verified before commissioning.

## 4.2 ELECTRICAL CONNECTION

### **WARNING**

- Check that the power supply is switched off prior to electrical connection!
- The appliance must be permanently connected to fixed wiring.
- **The appliance must be earthed.**
- Electric installation **MUST** be equipped with residual current protective devices and other devices that ensure disconnection of power (all poles are disconnected by at least 3mm separation).
- Means for disconnection must be incorporated in the fixed wiring in accordance with wiring rules.
- Do not connect the heater to the electric mains until the heater is vented and all water connections are tight.

**WARNING:** The enclosure is sealed to satisfy IPX4 requirements – any attempt to open the enclosure or remove labels will void the warranty and cause risk of water ingress and short circuit

## 5. OPERATION



### IMPORTANT!

- **In case of a water supply failure (lack of water in system), the tap and power supply must be shut off immediately. The heater should be vented again after water supply is back to normal.**
- **The heater should always be vented before initial start-up. Vent the heater each time after the water has been emptied from the heater or pipes. See 'Venting' section.**
- Check for damage to the appliance regularly. If damage to the appliance is suspected, discontinue use immediately and contact the supplier or qualified technician to repair.
- **Water with a temperature higher than 40°C has the potential to cause serious burns.**
- Do not operate the appliance when the water has been emptied from the unit or pipes.

### 5.1 PURGING

- I. Cut-off the power supply to the heater.
- II. Open the hot-water tap and let it run until the flow is steady and free of air (no sputtering).
- III. Close the hot-water tap.

### 5.2 OPERATION

- The heater switches on automatically when the flow rate is over 2L/min.
- The temperature control system adjusts the power according to the water flow rate, required temperature and supply water temperature.
- The LED activating and showing a temperature reading indicates the heater is in operation

## 6. USER CARE



### **IMPORTANT!**

- **Check for damage to the appliance regularly. If damage to the appliance is suspected, discontinue use immediately and contact the supplier or qualified technician to repair.**
- Do not use any abrasive or corrosive cleaning agents.
- Check the tap regularly. Limescale deposit at outlets can be removed with descaling agents.
- Clean the outside of the appliance with a clean damp cloth.
- Dry all surfaces with a dry cloth.

## 7. MAINTENANCE



### **WARNING!**

- **The unit is a non-serviceable item; it has been sealed in accordance with IPX4 standards and any attempt to open the enclosure or remove safety labels will void the warranty and cause risk of water ingress and short circuit.**
- **Do not operate the unit if any labels have been tampered with.**
- **Purging the unit after pipe maintenance work. See Chapter 5.1 for details.**

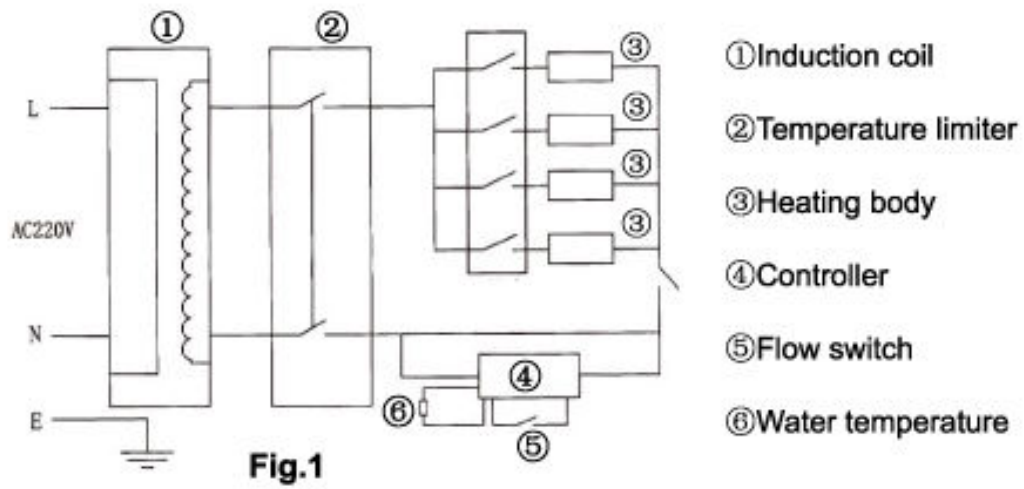
## 8. TROUBLESHOOTING



### IMPORTANT!

Symptom	Possible Cause(s)	Solution
Water leaking at inlet or outlet	Poor connection of inlet / outlet hoses	Reconnect hoses
	Brass fitting loosened	Tighten brass fitting
Water temperature is too high	Water pressure fluctuations	Ensure steady water supply before using
	Water supply partially blocked	Check water supply, hoses and pipes
	Thermostat damaged or disconnected	Contact Fala
Water temperature too low	No power	Check power
	Flow rate too high	Reduce the output flow
Water flow is too low / gets lower and lower	Water supply partially blocked	Check water supply, hoses and pipes. If no issues or faults, contact Fala

## 9. WIRING DIAGRAM



## 10. WARRANTY

Please visit our webpage for warranty details - [falawater.com/warranty-details](http://falawater.com/warranty-details)

Read all instructions before installing or using this appliance.



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