



THE TOTAL ELECTRIC HEATING SOLUTION



Inline Instantaneous Thermostatic Water Heater

HSMF9600T

Installation Instructions and User Guide

Overview

Instantaneous water heaters are a power energy efficient solution because they only use energy when hot water is required so there are no standing losses. The HSMF9600T is a high-performance, mains-pressure instantaneous water heater that can supply hot water to one or two sinks for handwashing, a single sink for dishwashing, or a single shower. Its quick-heating technology ensures a rapid and nearly instantaneous supply of hot water. Before installing this product, please carefully read these instructions and leave them with the user once the installation is complete.

1. Important safety points

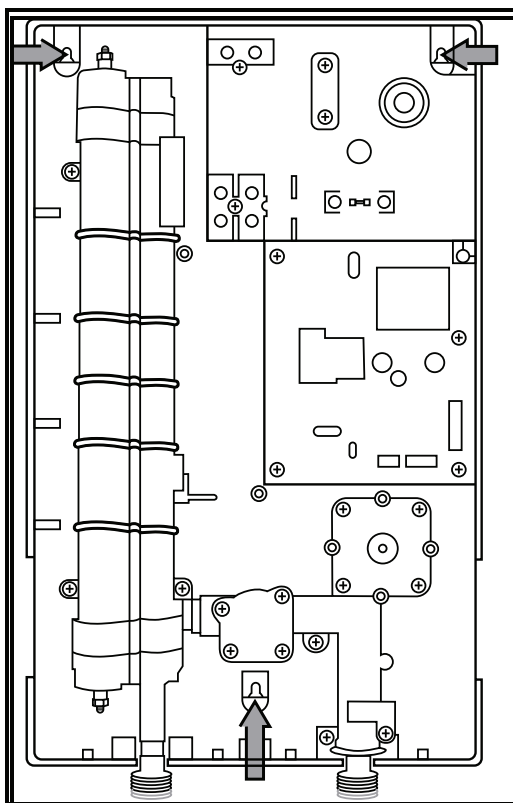
- For safe operation, this appliance must only be connected to a single-phase supply.
- Before installation, make sure to isolate electrical and water supply.
- All electrical work must be performed by a qualified electrician, following the latest guidelines from the Institute of Engineering and Electronics (IEE) wiring regulations.
- Only connect the appliance to a power supply that conforms to the specification stated on the rating label.
- The appliance must be always earthed.
- The appliance must be permanently connected to the electrical supply through an isolating switch with a contact separation of no less than 3mm in all poles.
- Do not use the appliance if there's a risk of water freezing in the supply lines.
- Never remove the appliance's cover without first isolating it from the electrical power supply.
- This appliance is suitable for use by children aged 8 and above, as well as individuals with reduced abilities or lack of experience, if they receive proper supervision and instruction on safe usage and understand the potential hazards. Children should not play with the appliance, and cleaning and maintenance tasks should only be performed under adult supervision.
- Do not use a supply with incoming water temperatures greater than 60°C.

2. Installation

When installing a heater, make sure to choose a location where there is no risk of water freezing. Additionally, avoid installing it in areas where a leak could cause significant damage, such as above sensitive equipment.

When selecting a spot for the heater, consider how easily a potential leak would be visible. This is especially important when placing it in a hidden area like a cupboard, where you may not notice a leak right away.

Finally, ensure that the heater is mounted vertically, with the water inlet and outlet connections at the bottom of the heater (see diagram below).



Before installing the heater on the wall, think about the wiring route to the heater. The electrical cable can enter the heater through a slot in the back for concealed cabling. Knock out panels in the top right corner of the back plate and front cover are available for side entry.

Remove the front cover by unscrewing one screw and lifting it off, making sure to unhook it from the top first. Carefully disconnect the internal wiring from the main unit to fully remove the cover.

It's a good idea to position the heater as close as possible to the hot water outlet to minimise heat loss through the pipework.

Once you have chosen a location, attach the heater to the wall. Make sure it is level and mark the spots where you will drill holes for the screws. Check that there are no hidden cables or pipes in the way before starting to drill.

Remove the heater from the wall and drill the marked holes. Then, insert wall anchors and put the heater back up on the wall. Align the screws with the anchors and screw them in securely.

Plumbing the appliance

Please ensure the following criteria are met for the water supply:

- Minimum flow = 2.5L/min
- Pressure Min/Max = 0.1Mpa/0.75Mpa
- Water resistivity = $\geq 1300 \Omega\text{cm}$

Suitable for use with pre-heated water e.g. solar heating systems to a maximum of 60°C.

Before connecting your heater to the water supply, make sure to flush out any debris from the supply pipes. This is crucial to ensure a smooth and safe operation of the heater.

The inlet pipe, which carries cold water from the mains, is located on the right side of the heater when viewed from the front. The outlet pipe, which supplies hot water, is located on the left side.

Remember to install the supplied gauze filter on the cold inlet side of the plumbing system. Additionally, all pipework should be properly grounded to prevent electrical shocks.

It's highly recommended that you install a service valve on the cold feed pipe to make maintenance easier in the future.

Make the plumbing connections as indicated on the front cover of the heater:

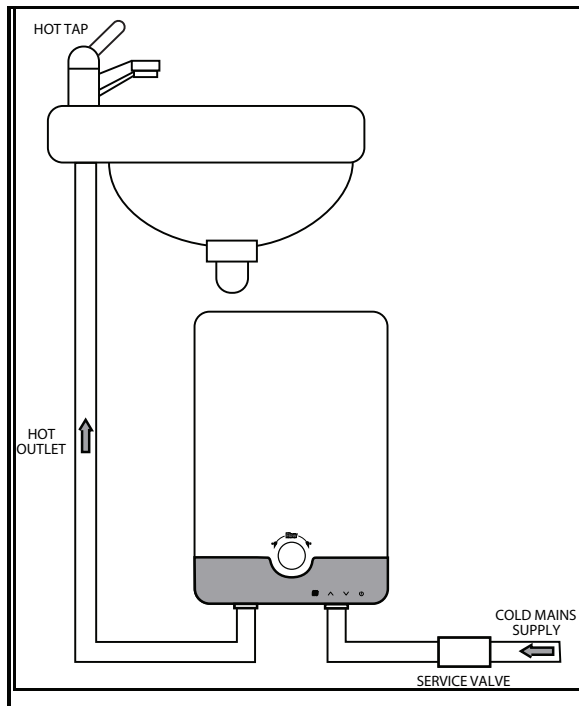
- Inlet (cold mains)
- Outlet (hot tap/outlet)

The inlet is the right hand pipe and the outlet the left, when viewed from the front. The supplied gauze should be installed into the cold inlet side of the plumbing.

- All pipework should be adequately earthed.
- It is recommended a service valve be fitted on the cold feed to facilitate future maintenance.

To complete the setup, turn on the cold water supply and run water through the heater for several minutes by opening the hot outlet valve. Check that water flows smoothly and freely from the outlet pipe to ensure all air has been purged from the system. Finally, inspect all connections for any signs of leaks or damage.

Remember to perform this step every time you drain or disconnect the heater for any reason, including routine maintenance.

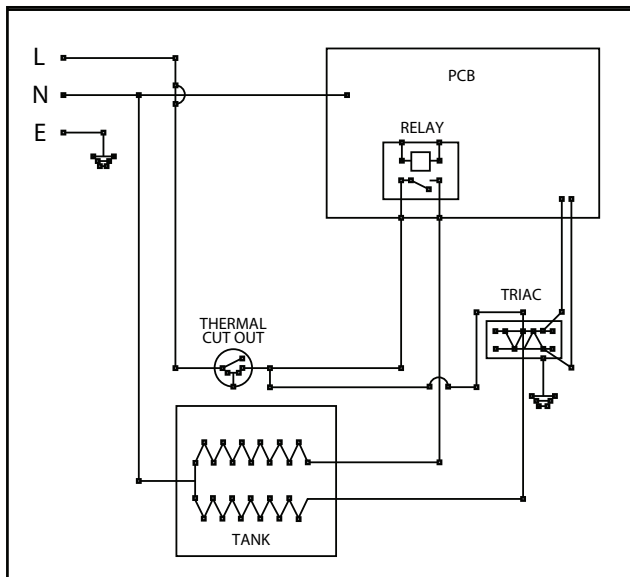


Electrical

- **Do not commence electrical installation before connecting the heater to the water supply and verifying that there are no leaks or air gaps.**
- Electrical installations should only be performed by a certified electrician, adhering to the most recent guidelines outlined in the IEE Wiring Regulations.
- To ensure safe operation, the electrical supply to the heater should be
- capable of being fully isolated using a double-pole switch.
- The heater must also be properly earthed to prevent any electrical shocks or injuries.
- Before starting the electrical installation, it is essential to isolate both the electric and water supplies to prevent any accidents or damage.
- Finally, always check the rating label on the heater to ensure that you are installing it according to its specific specifications of installation.

Connection to the heater's terminal should be made as follows:

- Earth cable to the terminal marked 'E'
- Neutral cable to the terminal marked 'N'
- Live cable to the terminal marked 'L'



3. Operation

Once installed and plugged in, the heater is ready to use. When you turn it on, it will automatically start working when it senses the flow of water through the system (at a minimum rate of 2.5L/m). Because this is an instantaneous heater, it heats the water as it passes through the tank, rather than heating a large quantity of water all at once. As a result, there's a limit to how quickly it can deliver hot water, due to the fixed power output of the heater.

Selecting a temperature

Turn on the heater using the Power On/Off.

On first installation the temperature setting will default to 38°C. To adjust this press the up/down buttons until the desired target temperature is displayed.

To store a frequently used temperature setting, press and hold the “M” button. This stores the current temperature and allows it to be recalled at any time by pressing the “M” button.

Controls:

1. Memory (record/recall temp setting)
2. Increase temp setting
3. Decrease temp setting
4. Power On/Off



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Setting the maximum flow rate

The flow rate is shown on the front display of the heater in L/min. If the desired temperature cannot be met at the current flow rate the temperature display will flash to indicate this. Adjust the flow down using the dial on the front of the heater until the temperature display stops flashing.



Once a desired temperature is selected, the heater will manage the power in order to ensure the temperature is met. The current power usage is displayed by the lines at the bottom of the display.

- It's important to note that water temperature can vary depending on the time of year, with colder temperatures common during winter months. To ensure optimal performance during these periods, you may need to adjust the maximum flow rate downward to maintain a suitable temperature.

Overheat Protection

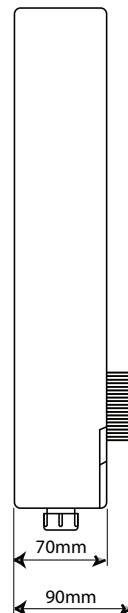
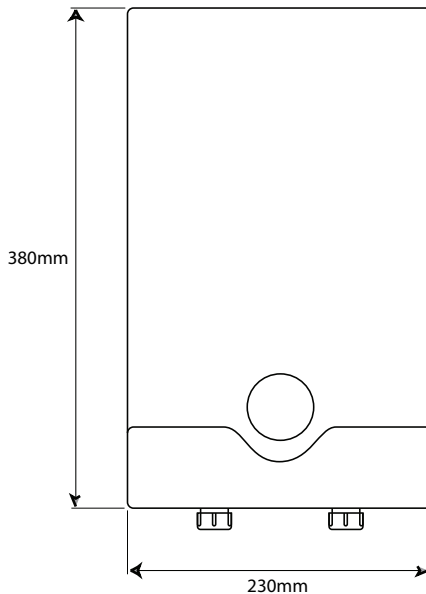
In the unlikely event that your water heater experiences a malfunction, it is equipped with a manual reset thermal cut-off system. To locate it, look for a small button on the top of the heating chamber, covered by a removable panel. If the heater overheats, press this button to reset it. However, it's essential to only reset the unit after identifying and addressing the underlying cause of the overheating issue. Before attempting to access the unit, make sure to disconnect it from the power supply to prevent any potential electrical risks.

4. Maintenance

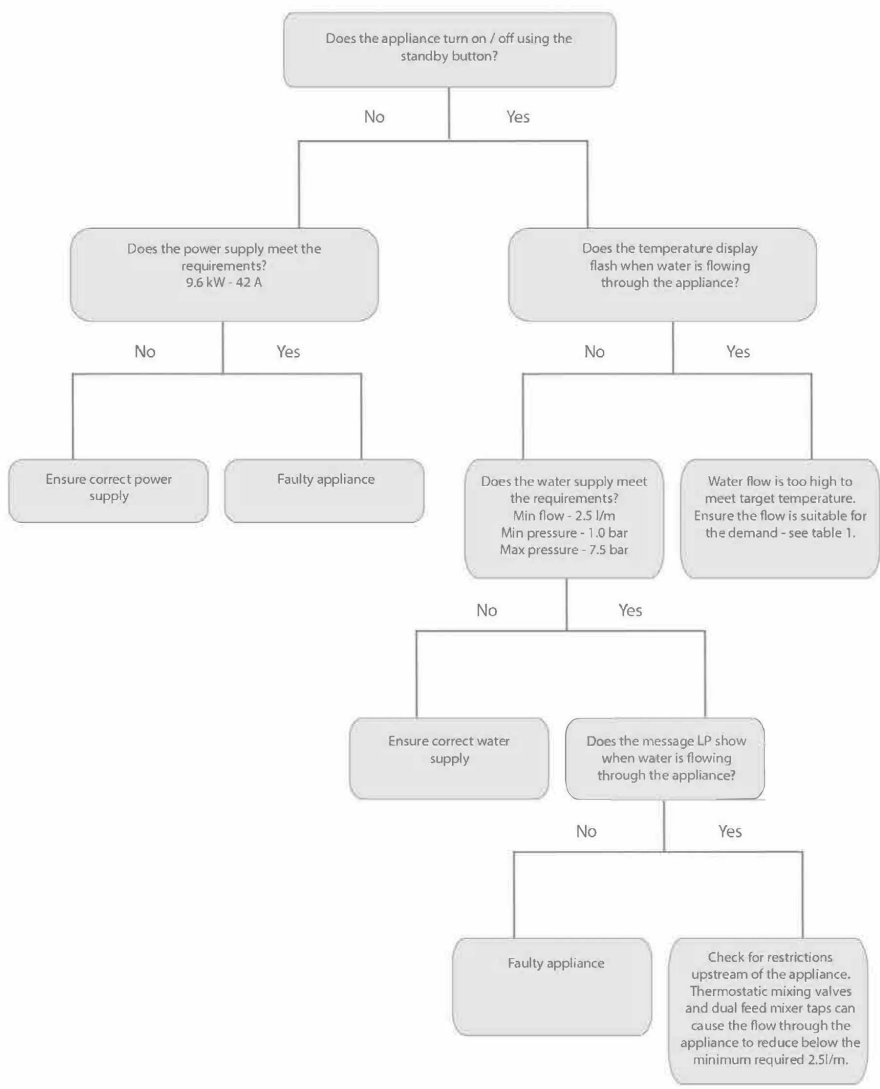
- Before you start cleaning or performing maintenance on your heater, make sure to switch off the power supply. Never touch the heater's cover without first turning off the main power source.
- When cleaning your heater, use a soft, damp cloth only. Avoid using harsh chemicals or abrasive materials that could damage the components.
- Regularly inspect and test the electrical and plumbing parts of your heater by a qualified professional to ensure they're in good working condition and to prevent any potential issues.

5. Technical Specifications

Power supply	230V ~ 50Hz
Dimensions	H380(mm) × W230(mm) × D90(mm)
Power supply	9600W
Protection class	IPX4
Rated current	42A
Min/max temperature setting	30/60°C
Over heat protection temperature	75°C +/-5
Minimum operating flow temperature	2.5L/Min
Minimum operating pressure	0.1MPa
Maximum rated pressure	0.75MPa
Required water resistivity	1300Ω/cm
Maximum incoming water supply temperature	60°C
Water fittings	1/2"BSP



6. Troubleshooting



For technical faults that cannot be resolved using the trouble shooting table contact Heatstore on 0117 923 5375 for further assistance and advice.

7. Guarantee

This product is guaranteed against faulty materials and manufacture for a period of two years from the date of purchase. Heatstore will replace any faulty unit. Incorrect installation and failure to follow correct operating instructions are excluded. Consequential costs such as labour charges or damage to surroundings are expressly excluded.



INFORMATION FOR CORRECT DISPOSAL OF THE PRODUCT IN ACCORDANCE WITH THE EUROPEAN DIRECTIVE 2012/19/EU.

At the end of its working life this equipment must not be disposed of as household waste. It must be taken to a local authority waste collection centre or to a dealer providing this service. Disposing of electrical and electronic equipment separately enables its components to be recovered and recycled to obtain significant savings in energy and resources. In order to underline the duty to dispose of this equipment separately, the product is marked with a crossed out dustbin.



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Contact details

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