



# INSTRUCTION MANUAL

## SMALL STORAGE ELECTRIC HOT WATER

5L Storage  
HF-UH5  
HF-OH5



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# 1. PREFIX

This manual contains important information about the installation, operating and maintenance of Bromic Open (Non-pressure) Small Storage 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.**

## 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 the 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, injury or death 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 or qualified person to repair.
- **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 of 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.
- **The hot water system must be installed with the supplied vented tap. No other components are allowed to be fitted to this hot water system, this includes tempering valves, filters, aerators etc.**
- **Water with a temperature higher than 40°C has the potential to cause serious burns, particularly in children.**
- **This appliance is capable of heating water to a temperature of 70°C, and thus CANNOT be installed in sanitary fixtures used primarily for personal hygiene.**
- Do not perform maintenance until the appliance has been turned off and power disconnected.
- Do not operate the appliance with panels, covers or guards removed.
- If the supply cord becomes damaged, it must be replaced by an authorised service agent or similarly qualified person in order to avoid a hazard.
- 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.
- An extension cord must not be used to connect the heater to power.
- Do not install appliance where room temperatures fall below 0°C.
- Install the appliance vertically and near the draw point. Mounting orientation must be according to the heater's model (see Section 4.1 and 4.2). Installation and use of the heater in opposite/incorrect orientation 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.
- Equipment has a maximum pressure rating of 600kPa. A Pressure reducing valve must be installed for applications where supply pressures exceed this rating. Installation of PLVs must be in accordance with national and local regulations.

### 3. PRODUCT OVERVIEW

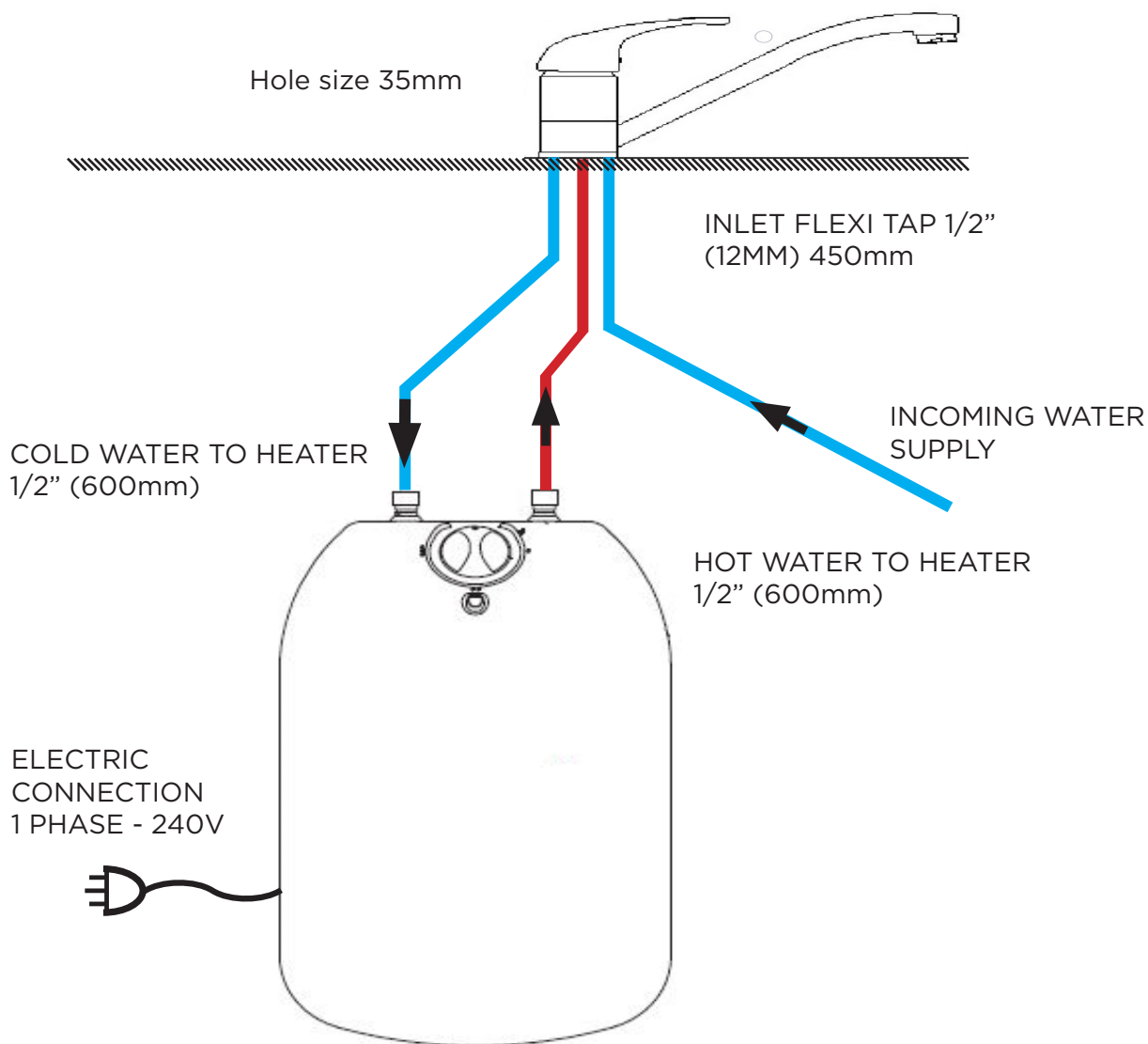
The small storage water heater series is an open system small storage water heater. It is not designed to sustain water mains pressure and thus must be installed with the vented tap as supplied, and no additional fixtures. The appliance utilises a stainless-steel tank and is suitable for kitchen sinks as well as work place kitchens/kitchenettes.

Data	HF-UH5	HF-OH5
Part No.	2850001	2850002
Type	Vented Storage	Vented Storage
Capacity, L	5	5
Voltage, V	220 – 240Vac, 1-phase	220 – 240Vac, 1-phase
Rated Power, W	2000	2000
Rated Current, A	8.3 – 9.1	8.3 – 9.1
Temperature Range, °C	23 – 70	23 – 70
Heating Time, mins. ( $\Delta T = 30^{\circ}\text{C}$ )	5.5	5.5
Maximum Inlet Water Pressure , kPa	600	600
Dimensions, mm	427 x 285 x 163	427 x 285 x 163
Weight, kg	4.5	4.5
IP Rating	24	24
Water Connections	Cold = G1/2" Male Hot = G1/2" Male	Cold = G1/2" Male Hot = G1/2" Male
Tank Material	Stainless Steel	Stainless Steel
Approvals	WM-40268 (AS 3498)	WM-40268 (AS 3498)

### 3.1 VENTED TAP INSTALLATION

#### WARNING

- The heater must only be installed with the supplied vented tap and fittings. The tap as supplied provides constant ventilation to atmosphere and prevents pressurisation of the heating chamber.
- Note: The unit is supplied with 2 x 1/2" to 3/8" reducers, these are required to connect the tap hoses to the main appliance and are not represented in the below image.



## 4. INSTALLATION



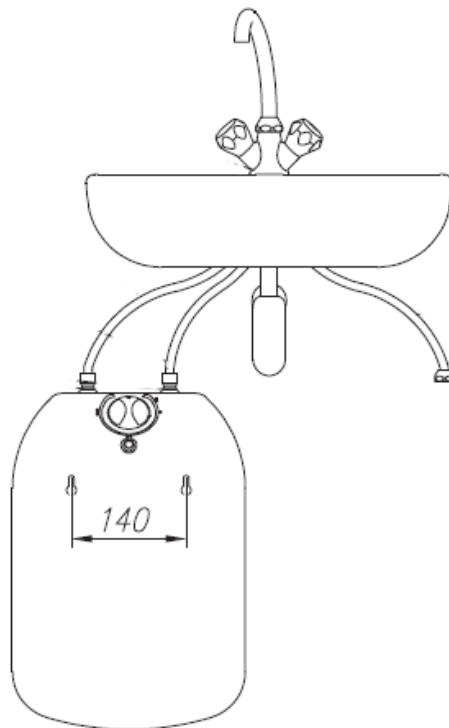
### WARNING

- 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 (page 10).
- The heater must only be used with the vented tap as supplied.
- Do not place the appliance under water pressure.
- The appliance is intended to supply only one vented tap.
- The hot water system must be installed with the supplied vented tap. No other components are allowed to be fitted to this hot water system, this includes tempering valves, filters, aerators etc.
- This appliance is capable of heating water to a temperature of 70°C, and thus **CANNOT** be installed in sanitary fixtures used primarily for personal hygiene.
- Do not install appliance where room temperatures fall below 0°C.
- The appliance should be mounted in a way that it can be easily accessed.
- 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 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 and full.
- The system should be set at > 60°C to kill the growth of legionella bacteria growth.
- Water with a temperature higher than 40°C has the potential to cause serious burns, particularly for children.

## 4.1 HF-UH5 MOUNTING AND WATER CONNECTION

### IMPORTANT

- HF-UH5 is only suitable for undersink installation.
- The water connections of the appliance must point upwards.
- Do not block/restrict the hot water outlet. This serves as a ventilation.



- I. Mount the heater on the wall in a vertical position (as per the above orientation) with one of the 2 options below.
  - a. Fix two 8mm dia. pins into the wall with a spacing of 140mm.
    - i. Screw the fasteners in a way that there will be no more than 4mm space between the wall and the screw head.
    - ii. Hang the heater on the fasteners.
  - b. Install the special hanger provided to the wall and hang the heater.
- II. Connect the water connections of the vented tap to the heater and water supply.
  - a. Blue (LHS), Cold water inlet → Cold water from vented tap
  - b. Red (RHS), Hot water outlet → Hot water to vented tap
  - c. Water supply → Cold water to vented tap

IMPORTANT: Use an additional tool to counter-hold the plastic fitting when assembling the hoses.

- III. After installing the water connections, open the water supply and hot water tap. Wait until the water starts running at a constant and even flow from the tap and close the tap.
- IV. Check connections for leaks - THIS UNIT CANNOT BE PRESSURE TESTED FOR LEAKS.
- V. Connect to power and turn on only after water level in tank is full.

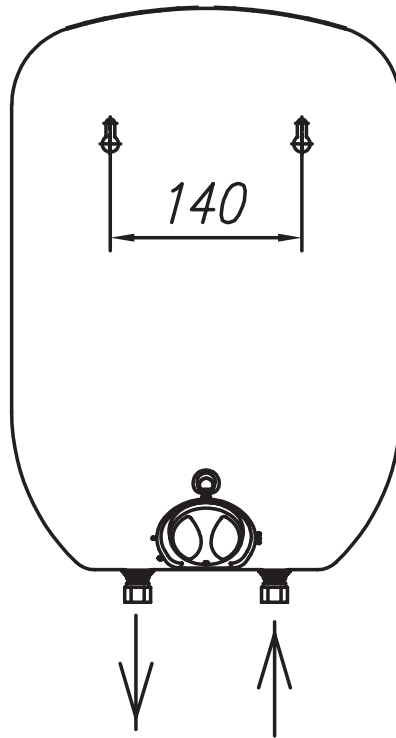


## 4.2 HF-OH5 MOUNTING AND WATER CONNECTION



### IMPORTANT

- HF-OH5 is only suitable for oversink installation.
- The water connections of the appliance must point downwards.
- Do not block/restrict the hot water outlet. This serves as a ventilation.



- I. Mount the heater on the wall in a vertical position (as per the above orientation) with one of the 2 options below.
  - a. Fix two 8mm dia. pins into the wall with a spacing of 140mm.
    - i. Screw the fasteners in a way that there will be no more than 4mm space between the wall and the screw head.
    - ii. Hang the heater on the fasteners.
  - b. Install the special hanger provided to the wall and hang the heater.
- II. Connect the water connections of the vented tap to the heater and water supply.
  - a. Blue (RHS), Cold water inlet → Cold water from vented tap
  - b. Red (LHS), Hot water outlet → Hot water to vented tap
  - c. Water supply → Cold water to vented tap

IMPORTANT: Use an additional tool to counter-hold the plastic fitting when assembling the hoses.

- III. After installing the water connections, open the water supply and hot water tap. Wait until the water starts running at a constant and even flow from the tap and close the tap.
- IV. Check connections for leaks - THIS UNIT CANNOT BE PRESSURE TESTED FOR LEAKS.
- V. Connect to power and turn on only after water level in tank is full.

## 4.3 ELECTRICAL CONNECTION



### IMPORTANT!

- Do not connect the heater to the electric mains until the tank is filled with water and all water connections are tight and the appliance is full of water.
- Do not use extension cords to connect the heater with a socket.
- If the supply cord becomes damaged, it must be replaced by an authorised service agent or similarly qualified person in order to avoid a hazard.
- 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)
  - I. Connect the plug to a standard 10A socket.

## 5. OPERATION



### IMPORTANT!

- **In case of a water supply failure (lack of water in system), the tap must be shut off and temperature controller turned to the 'OFF' position immediately and safely isolated from the power source. 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 5.1.**
- Check for damage to the appliance regularly. If damage to the appliance is suspected, discontinue use and disconnect immediately and contact the supplier or qualified person to repair.
- **Water with a temperature higher than 40°C has the potential to cause serious burns, particularly in children.**
- **Due the design of the appliance, water is likely to drip on occasion when the tap is in the closed position. This is by design and should be prevented.**
- Do not operate the appliance when the water has been emptied from the unit or pipes.

## 5.1 VENTING

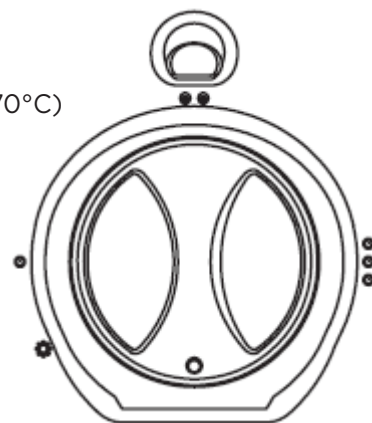
- I. Take the plug out of the socket.
- II. Open the hot water tap and wait until a constant and even water flows from the outlet.
- III. Close the hot water tap.
- IV. Set the thermostat to the desired position.
- V. Put the plug into the socket.

## 5.2 ADJUSTING THE TEMPERATURE

- I. Adjust the thermostat to the desired position from '•' (-10°C) to '•••' (-70°C)

### NOTES:

- The current position on the dial is the 'OFF' position.
- The heating LED indicator (located above the dial) will switch on when water is being heated.



## 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 person 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!

- **All maintenance must be performed by a qualified and licensed technician.**
- Disconnect the appliance from the power supply before performing any maintenance. Never unplug the appliance by pulling on the cord. Always grasp the plug firmly and pull straight out of the outlet.

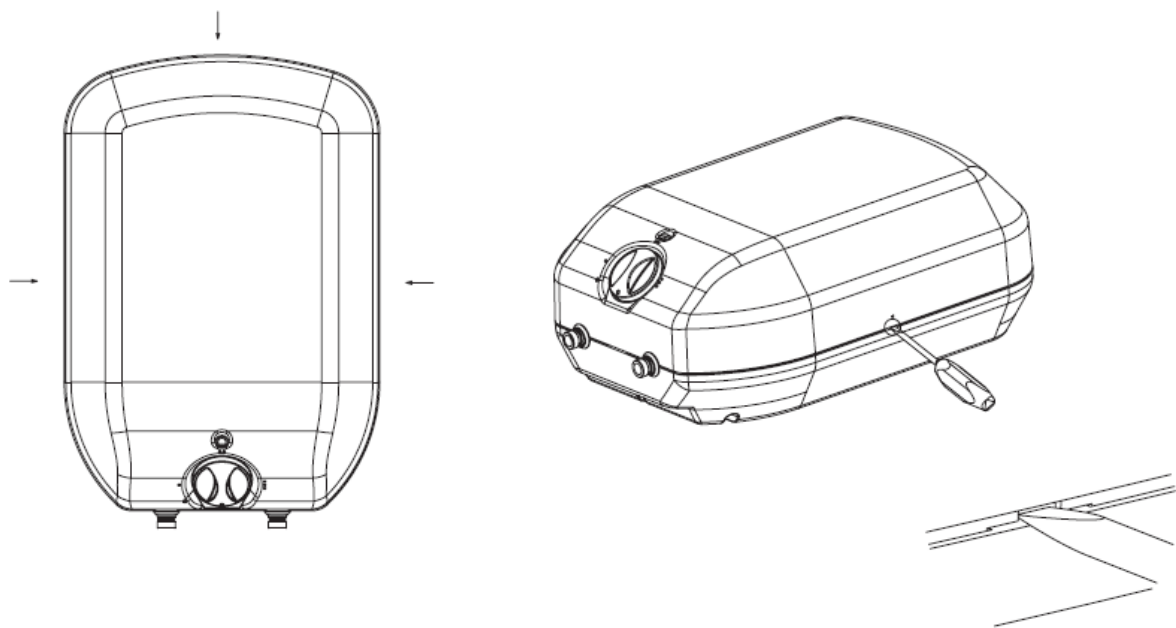
### 7.1 DRAINING THE TANK

#### WARNING!

- **Hot water may escape while draining the tank.**
- I. Take the plug out of the socket.
  - II. Open the hot water tap until the water is cold to touch.
  - III. Let the water run for 3mins.
  - IV. Close the hot water tap.
  - V. Disconnect the hot and cold water fittings from the appliance.

## 7.2 SERVICING

This is a non-serviceable item, it can only be opened by a qualified and authorised professional.



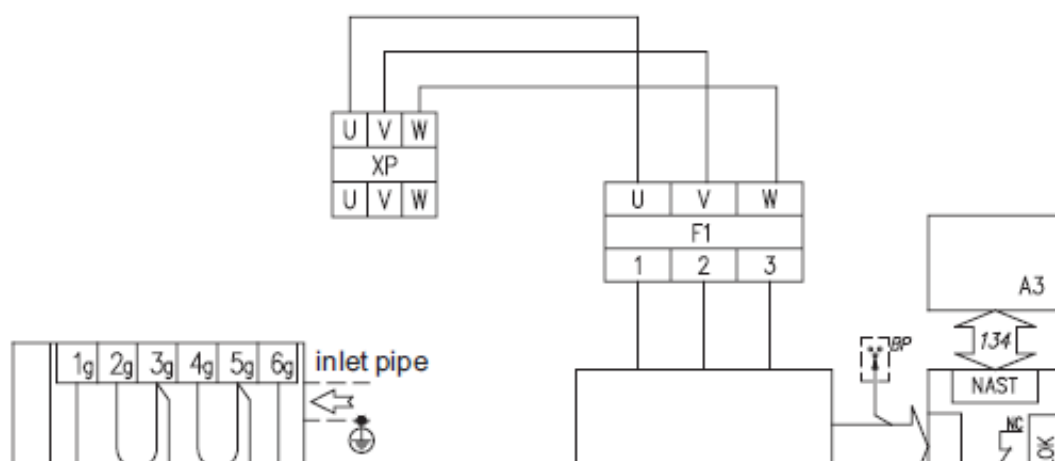
- I. Allow the appliance to cool down.
- II. Insert a flat screw driver to one of the three (3) locations shown above.
- III. Lever the screw driver to remove the front cover from the latch.
- IV. Repeat the same procedure to the other locations.
- V. Once the front cover is removed, thermal cut-out and thermostat can be accessed.

## 8. TROUBLESHOOTING

IMPORTANT!

Symptom	Possible Cause(s)	Solution
The heater does not heat water and heating LED indicator does not work.	Power failure	Check Power Supply
	Thermostat failure	Replace Appliance
The heater does not heat water but LED indicator on.	Element failure	Replace Appliance
	Thermal cut-out failure	Contact Bromic
The heater heats water and heating LED indicator does not work.	LED indicator failure	Contact Bromic

## 9. WIRING DIAGRAM



E1 = Heating element

F1 = Thermal cut-out

K1 = Thermostat

XP = Supply cord with a plug

X1 = Terminal

H1 = Heating LED indicator

## 10. WARRANTY

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

Read all instructions before installing or using this appliance.



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