

# Electronic Hot Water Appliance

## Installation, Operation and Care Instructions



The hot water heater is open vented (non-pressured) and intended for Point-of-Use (POU) installation to connect one water outlet only. Only "Open Vent" faucets function with the hot water heater. Connecting a standard faucet will damage the heater and void the warranty.

**CAUTION – To avoid electric shock, install as intended with an ‘Open Vent’ faucet design. Read and follow all installation instructions**

We are delighted that you have chosen the electronic hot water appliance to compliment your hot water tap. This unique electronic hot water appliance will save you time and effort when requiring near boiling water for making tea and coffee and we are sure you will discover many new uses each day.

Please read and follow our step by step guide to the installation, operation and care for the electronic hot water appliance and you will soon be making that first cup of coffee or tea from your new appliance.

## WHAT YOU NEED TO KNOW BEFORE YOU START

For your safety and satisfaction please read all the instructions, cautions and warnings before installing or using this electronic hot water appliance.

This appliance can be used by children aged from 8 years and above if they have been given supervision or instruction concerning use of the appliance in a safe way and if they understand the hazards involved. Cleaning and user maintenance shall not be made by children unless they are older than 8 and supervised. Keep the appliance and its cord out of reach of children aged less than 8 years.

Appliances can be used by 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.

This appliance is intended to be used in household and similar applications such as:

- staff kitchen areas in shops, offices and other working environments;
- farm houses;
- by clients in hotels, motels and other residential type environments;
- bed and breakfast type environments.

The appliance must not be immersed.

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.

This electronic hot water appliance is not intended for commercial use

**IMPORTANT NOTIC:** This product can cause harm if installed incorrectly and should only be installed by a competent person, if you feel for any reason unsure about the installation please contact a qualified plumber or electrician to install the appliance.

### **General Requirements:**

- Install and properly ground the unit in accordance with local codes, or in the absence of local codes, with the current edition of the National Electrical Code ANSI/NFPA 70 in the USA or CSA standard C22.1 Canadian Electrical Code, Part 1 in Canada.

- Follow all applicable plumbing heating, and air conditioning codes during installation. International Plumbing Code(IPC), Uniform Plumbing Code(UPC)

The Normal Rated Power of this appliance is 1500W.

Make sure all water connections conform to local standards.

A standard 220v - 240v grounded 13 amp switched electrical outlet is required under the sink for the appliance electrical power and must supply electrical power continuously to the appliance.

The power outlet must be connected to the 13 amp fused plug supplied.

**The hot water appliance is an open vented system appliance when not being operated the pressure is 0 pascals. The operating pressure is 1500000 pascals to 500000 pascals. Disconnect power by opening the circuit breaker(s) before installing or servicing.**

**CAUTION** - To provide continued protection against risk of electric shock, Connect Only To A Dedicated Branch Circuit and connect to standard grounded outlet only.

#### GROUNDING INSTRUCTIONS

This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

**WARNING** – Improper installation of the grounding plug is able to result in a risk of electric shock. When repair or replacement of the cord or plug is required, do not connect the grounding wire to either flat blade terminal. The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire.

Check with a qualified electrician or serviceman when the grounding instructions are not completely understood, or when in doubt as to whether the product is properly grounded. Do not modify the plug provided; if it does not fit the outlet, have the proper outlet installed by a qualified electrician.

This product is for use on a nominal 220-V circuit and has a NEMA standard grounding plug. Only connect the product to an outlet having the same configuration as the plug. Do not use an adapter with this product.

The water filter must be connected to the electronic hot water appliance and replaced every 6 months or the guarantee will be void.

#### Equipment Required:

Tape Measure



Adjustable Wrench



#### **⚠ WARNING**



**Scalding Risk:** This water heater can make water hot enough to cause severe burns instantly, resulting in severe injury or death. Follow applicable plumbing codes and local codes to prevent scalding.

## SAFETY INSTRUCTIONS PLEASE READ BEFORE YOU START

The alert symbols displayed on the right point to important safety information to make you aware of potential hazards that can cause serious injury or death. Please pay special attention to the information following these warning alerts. Failure to comply with these instructions could result in property damage, serious injury or death.



Please read this chapter carefully for your own safety and the safety of those around you. Please read the safety information in this instruction, installation guide and on the product, in order to install and use the product accordingly, so as to avoid any injury. The safety information will tell you what the potential danger is, how to avoid it, and identify what will happen if you do not operate following the instruction.

**Electric Shock:** Using an ungrounded connection or improper connection of the power supply to the product can result in a serious injury or death from electrical shock.

Electric Shock: Do not remove the earthing terminal

Do not reconstruct the plug

Do not disassemble main box and any part for the power.



### Important

The instructions are only intended as a guide, if there is any doubt then please contact a certified plumber or electrician or point of purchase and avoid using the appliance until it has been checked.

## COMPONENTS INCLUDED

The electronic hot water appliance is supplied with the following:

Electronic Hot Water Appliance with 13amp EU Plug

The water connections are to allow correct connections from the hot water tap to the electronic hot water Appliance.

Outlet Connectors 3/8" BSP to Silicon tube

## IMPORTANT SAFETY INSTRUCTIONS

PLEASE READ ALL INSTRUCTIONS CAREFULLY   WARNING

 DANGER

When using all electrical appliances, basic safety precautions should always be followed including the information below:

To protect against electrical shock, do not place cord, plugs or unit near or in water or other liquids and do not operate the electronic hot water appliance controls or power socket with wet hands.

Check the power rating of your electronic hot water appliance is suitable for the power rating of the electrical circuit it is being installed on.

Do not operate or install the electronic hot water appliance if it appears to have any missing parts, be damaged / faulty eg damaged cord, plug.

Do not use outdoors or in a damp area.

Do not use the electronic hot water appliance for anything other than the intended **Domestic** use only.

The electronic hot water appliance must be installed vertically as shown on front cover with inlet and outlet connections at the top of appliance.

Ensure the front of the unit is visible and the front temperature dial can be easily reached.

Do not attempt to open, modify or service this electronic hot water appliance. Re-pairs should be carried out by Authorised Service personnel. Opening the unit will void the guarantee.

**The hot water appliance is an open vented system appliance when not being operated the pressure is 0 pascals .The operating pressure is 1500000 pascals 500000 pascals.**

Turn off all controls before unplugging.

Do not unplug by pulling the cable. To unplug, grasp the plug, not the cable.

Property Damage: To avoid the risk of flooding, regularly inspect the connections for any signs of leakage.

This electronic water 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. Children should be supervised to ensure that they do not play with the electronic hot water appliance or hot water tap, a safety spring back handle is used to control the flow of the near boiling water for additional safety.

## INSTALLATION REQUIREMENTS

### Electrical Requirements



A 220v-240v, 50 Hz, AC-only 13 amp fused, grounded electrical power supply is required. It is recommended that a separate circuit serving only your electronic hot water appliance be provided or use an outlet that can be turned on/off by a switch.

This electronic hot water appliance is equipped with a power supply cord with a power plug. To minimize possible shock hazard, the cord must be plugged into mating, ground-type outlet, grounded in accordance with all national and local codes and ordinances. If a socket outlet is not available, it is the responsibility and obligation of the customer to have a properly grounded outlet installed by a qualified electrician.

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.

### Water Supply Requirements



If local codes permit, the hot water tap feed line should be connected to the hot and cold water supply line using an isolation valve or another means for providing the hot and cold water to the tap. IMPORTANT: If local codes do not permit the use of isolation valves, special feed valves can be obtained from your local plumbing supply distributor.

If the water is mixed with impurity, ironing chips, grains of sand, and so on, the pipes of the electronic hot water appliance and tap will be blocked and will void the guarantee.

### Environment requirement



Don't install the electronic hot water appliance outdoors or in a location that may fall below zero degrees F, otherwise the pipes and the tap and tank will be frozen and there will be serious safety trouble, possible bodily-injury, accidents and damaged caused and the guarantee will be void.

It's forbidden to wash the electronic hot water appliance with water directly.

The installation environment should be ventilated, with protection from the direct sunshine. When installing the electronic hot water appliance, provide approximately 10cm to 15cm (4 - 5 1/2") of air space on the sides of the unit for air circulation and approximately 2.5cm (1") from the mounting wall.

The environment humidity should be in the range of 10% to 60%. Be sure there is no dew.

### Hot Water Tap Information

Connecting a standard tap may  cause injury and will damage the electronic hot water appliance and void the guarantee. Due to high water temperature, and for safety reasons, the electronic hot water appliance is not under pressure.

### Hot Water Appliance Temperature Adjustment

For temperatures above 95°C:- it has been set for optimum performance in most common and typical known installations. However there are factors which may influence the performance of the hot water appliance such as incoming water temperature, atmospheric pressure and altitude. Should you experience any discharge of water from the spout during heat up, you can reduce the setting to compensate for this by 1-2°C degrees. If in doubt please ask your dealer for further guidance.

## PREPERATION FOR INSTALLATION

Unlike other household hot water appliances, this electronic hot water appliance is Non Pressurised for safety reasons. For this electronic hot water appliance, the **Hot Tap** is placed before the electronic hot water appliance, creating an “open vent” system and consequently no pressure is built up inside the appliance.

**IMPORTANT: Install the Hot Water Tap in accordance with the fitting Instructions provided with the Hot Water Tap** 

**Preparation for the electronic hot water appliance installation**

**IMPORTANT: Observe all local governing codes and ordinances.** 

The electronic hot water appliance must be mounted vertically and level.

Before you begin, select a proper location ideally directly under the hot water tap or close to it to ensure the connection pipes will connect from the hot water tap to the electronic hot water appliance.

The electronic hot water appliance is not under pressure, consequently, there is a slight delay in water flow after the hot water spring back tap handle has been turned on. This is normal and indicates that the electronic hot water appliance is functioning properly.

It is recommended that you have access to a separate power circuit serving only your electronic hot water appliance. See previous pages for more information on “ELECTRICAL REQUIREMENTS”.

## INSTALLATION

**Step 1–Position the Instant Hot Water Appliance** 

Ensure the electronic hot water appliance is **NOT** connected to the Electric Power during installation.

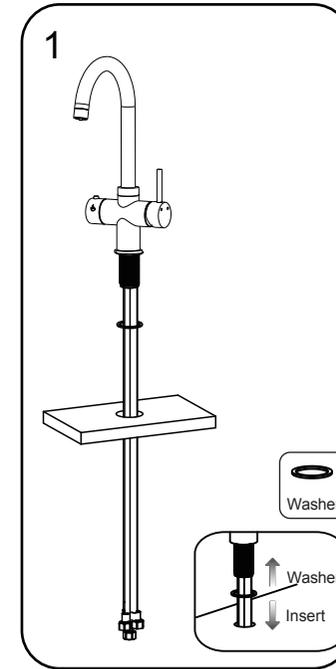
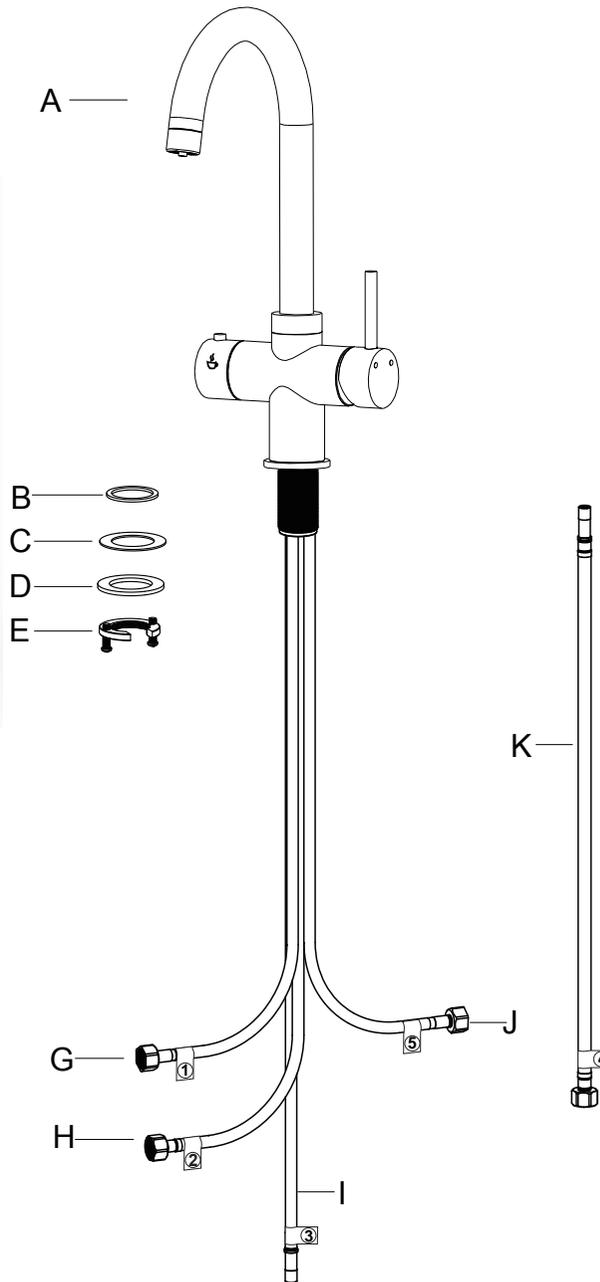
Place the electronic hot water appliance in position and check to ensure that the hot water tap connection pipes and the power cord will reach without being stretched.

The electronic hot water appliance must be positioned so the tubes from and to the hot water tap do not twist or kink.

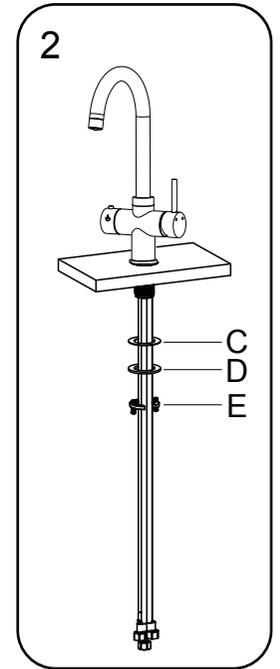
**Step 2 –Connect Tap**

# 3-1 Instant Hot Water Tap

## USER MANUAL

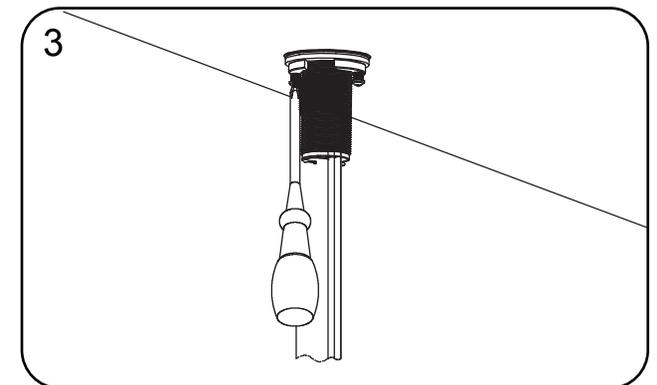


1. Insert the rubber washer (B) over the hoses into faucet shank, and mount the faucet on the basin. See Fig.1



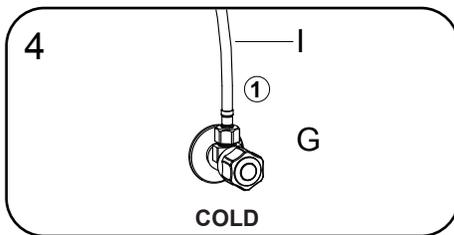
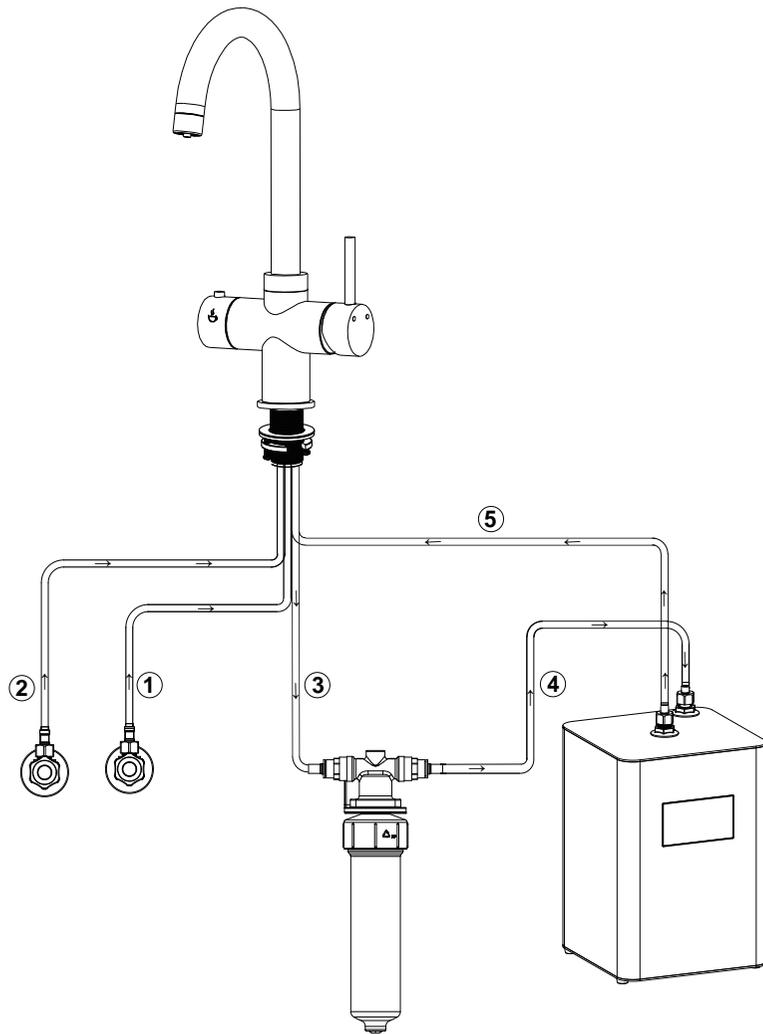
2. Slide the rubber gasket (C) firstly, metal washer (D) secondly, then the mounting nut (E) over the hoses onto the stem, and hand tighten them firmly. See Fig.2

**Please note: Pass the 4 hoses with nuts FIRST and then pass 1 tubes without nuts to facilitate installation.**

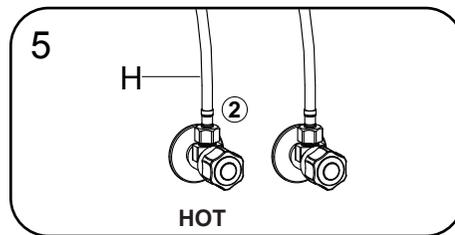


3. Use a Pgilips head screwdriver to thread the 2 screws. See Fig.3

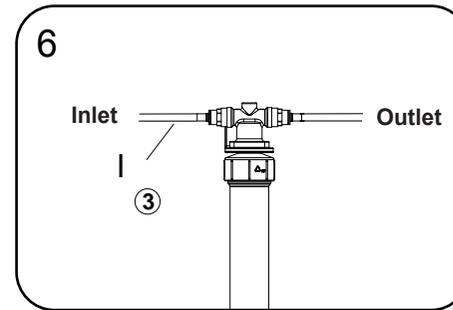
NO.	Description	QTY
A	Faucet	1
B	Rubber Washer	1
C	Rubber Gasket	1
D	Metal Washer	1
E	Mounting Nut	1
G	Cold water Supply Hose	1
H	Hot Water Supply Hose	1
I	Drinking water Inlet hose	1
J	Boiling water outlet hose	1
K	Drinking Water Outlet Hose	1



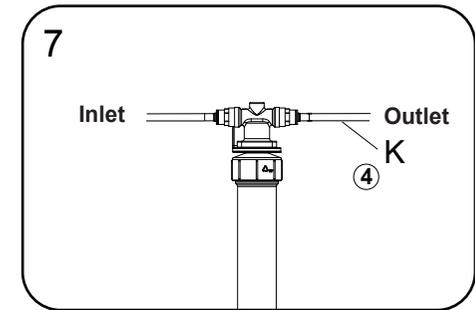
4. Connect the cold supply hose (G) (with label ①) onto the cold Angle Valve. Secure the connection with an adjustable wrench. See Fig.4



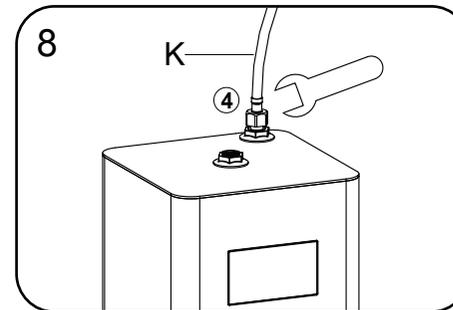
5. Connect the Hot supply hose (H) (with label ②) onto the matching Hot water valves and secure the connection with an adjustable wrench. See Fig.5



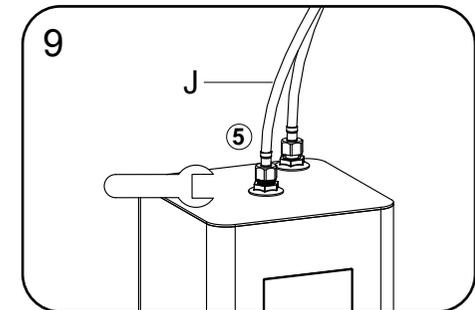
6. Connect the Drinking water Inlet hose (I) with label ③ into the filter housing inlet. See Fig.6



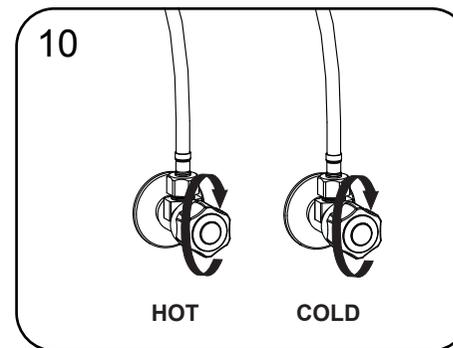
7. Connect the Drinking water Outlet hose (K) with label ④ into the filter housing outlet. See Fig.7



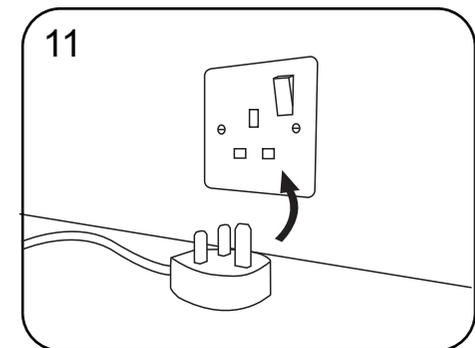
8. Connect the Drinking water Outlet hose (K) with label ④ into the Tank Inlet (Blue Nut). See Fig.8



9. Connect the Boiling water outlet hose (J) with label ⑤ into the Tank outlet (Red Nut). See Fig.9



10. Turn on the water supply and check the water connections for leaks. Test systems for leaks, and purge system. Run a minimum of 10 litres of water through the tank to remove any air.



11. Then the installation is completed. Hang the plastic aerator wrench (M) on one of the hoses for future use. Plug tank into electrical outlet and switch unit on, power indicator will flash.

## INSTALLATION CONTINUED

### Step 3 –Priming and Checking for Water Tightness

Before the electronic hot water appliance is plugged into the power socket it must be tested for water tightness and no leaks.

Open all water valves to allow water to flow to the hot water tap.

Turn the spring back hot water handle and hold to fill the electronic hot water appliance this will take about 90 seconds.



When the electronic hot water appliance is full, water will flow from the hot water tap spout.

Turn the hot water handle off and check all connections for water tightness and leaks.

Any leaking joint must be tightened to ensure no water leakage and the above priming undertaken again and checked for water tightness before connecting to the power socket.

## INSTALLATION CONTINUED

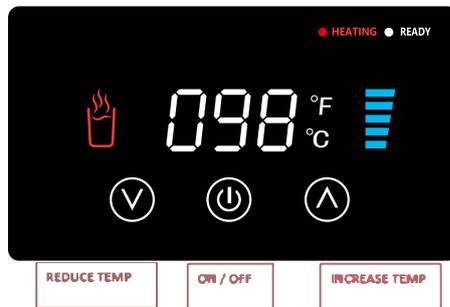
### Step 4 –Electrical Connection

Ensure that the installation area is dry and no water has spilled.

Connect the plug to the power socket and turn on the power socket at the switch.

The electronic hot water appliance display panel will now light up with  the on / off button illuminated.

### Step 5 -Electronic Hot Water Appliance Operation



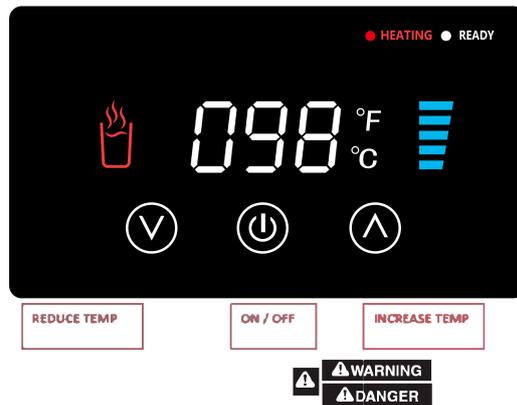
#### Electronic Control Display Panel

-  ON/OFF to control the power it will also control the display ON/OFF.
-  Temperature setting, 14 temperature settings:  
45°C/55°C/65°C/75°C/85°C/90°C/91°C/92°C/93°C/94°C/95°C/96°C/97°C/98°C/
-  Temperature setting, 14 temperature settings:  
98°C/97°C/96°C/95°C/94°C/93°C/92°C/91°C/90°C/85°C/75°C/65°C/55°C/45°C/

To turn on the electronic hot water appliance touch the button  and the display will light up.

Touch the button  and press each time so that the temperature settings will change from 45°C to 98°C continue to press till the required temperature is seen.

## INSTALLATION CONTINUED



If the electronic hot water appliance is empty of water and is turned ON then this will be automatically sensed, the heating element will not energize and the “lack of water” indicator will be flashing on the display panel shown by the flashing of the E3

If the “lack of water” indicator is seen the dry-burn protection sensor has activated automatically due to the lack of water in the electronic hot water appliance.

If the “lack of water” indicator is seen then touch the power off button and prime the electronic hot water appliance using the instruction set out earlier to fill with water.

If the electronic hot water appliance is not powered off or filled with water then after approximately 5 minutes the electronic hot water appliance will automatically power down until it is primed with water using the instruction set out earlier.

The Actual Temperature will display the approximate water temperature at the thermostat position. When the electronic hot water appliance is in heating mode there will be a moving red arc line of lights to indicate the electronic hot water appliance is heating up. Once the required set temperature is reached the red arc line will become static. There are two display boxes Heating and Hot when the tank is heating up the Heating will be lite and when temperature is achieved this will then lite up the Hot display box.

When the hot water is drawn from the hot water tap or the water temperature falls in the electronic hot water appliance falls below the required temperature setting then it will automatically re heat to the required temperature setting.

To turn off the electronic hot water appliance at any time press the  button.

## MAINTENANCE AND CARE INSTRUCTIONS CONTINUED

### Flushing the Hot Water Tank



It is recommended that the user flushes through the system completely by drawing off the hot water and allowing to reheat and repeating the process for a further 2 or 3 times to ensure the system is fully operational.

### Water Draw Back and Contamination in the Tank



During the filling of any vessel the user must ensure at all times that the spout outlet is not submerged in the water during the dispensing of the hot water and especially when the hot water handle is released.

### Maintenance & Power Saving

If the electronic hot water appliance is not being used for long periods of time ie: over 2 days, to save power we recommend you switch off using the "ON/OFF" switch.

### Seasonal Shutdown

The hot water system (tank and tap) must not be exposed to freezing temperatures. If there is a possibility of this the system must be drained of water. Shut-off the mains supply and unplug the unit from the electricity mains and allow the tank to cool for at least 1 hour. Disconnect the inlet supply to the tank and remove the silicone hose outlet pipe, lift the unit to the sink, turn upside down and drain all the water from the tank. When re-installing follow the original installation instructions.

## NOTICE

The electronic hot water appliance like any water heater has a limited operational life span and will eventually fail. In order to ensure maximum protection and to avoid possible damage to any property or personal injury the electronic hot water appliance should be inspected regularly for any water leakage or damage.

Regularly check for any signs of water leakage, if there is any water leakage then replace any loose or split silicon tubes or flexi tails which can cause water leakage and damage.

To provide additional water security to avoid property damage the electronic hot water appliance can be placed in a drain pan and connected to a suitable drain outlet to avoid any water damage. The drain pan should be installed using the manufacturers installation instructions.

**This appliance is intended to be used in household and similar applications such as:**

- **staff kitchen areas in shops, offices and other working environments;**
- **farm houses;**
- **by clients in hotels, motels and other residential type environments;**
- **bed and breakfast type environments.**

**If the manufacturer wants to limit the use of the appliance to less than the above, this must be clearly stated in the instructions**

## TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	WHAT TO DO
Water and Steam is spitting from the instant hot water tap spout	Unit is boiling	<p>Turn the hot water tap handle on and release the wa-ter.</p> <p>Adjust the water temperature on the display to a lower setting.</p> <p>Check aerator is not blocked</p> <p>Bleed system to remove any air</p> <p>Re-Prime bladder to allow cor-rect operation.</p>
Water is not hot.	<p>The electronic hot water appliance is un-plugged.</p> <p>The electronic display has not been powered up</p>	<p>Make sure the electronic hot water appliance is plugged in and connected to a grounded electric outlet.</p> <p>Make sure that the circuit breaker and fuse are working correctly</p> <p>Turn on the power and touch the on / off button and then set the required temperature and confirm the heat up.</p>
Water is too hot.	Water temperature setting on display panel is set to high.	Re-set the temperature to the required temperature and confirm the heating up
Water is dripping from the instant hot water tap spout.	<p>The expansion chamber isn't draining the system correctly due to very small draw off of water</p> <p>The spout is blocked</p>	<p>Draw off 0.5L of water to clear and prime the system. Avoid less than 150ml draw offs of water.</p> <p>Remove and clean the aerator</p>

## TROUBLE SHOOTING CONTINUED

PROBLEM	POSSIBLE CAUSE	WHAT TO DO
Slow Flow from the spout	Water Filter may be clogged from impurities in the inlet mains water	The water filter must be changed every 6 months or this will void the guarantee
Water does not flow straight away	The electronic hot appliance is design non-pressurised operation and there will be slight delay till the near boiling water appears	After a large volume of water has been drawn off there may a for slightly longer delay in the water appearing from the hot water tap spout
No Water Flowing	Water Valves have been turned off  Inlet Pipes have been twisted or blocked	Turn on all the water valves  Ensure the pipes are not twisted or kinked to restrict flow  Remove and clean the aerator  Remove the electronic hot water appliance as per the de scaling instructions and flush through all pipes to ensure water flow.

**IF YOU ARE IN ANY DOUBT THEN POWER OFF THE ELECTRONIC HOT WATER APPLIANCE AND CALL THE SERVICE AGENT**

Environment friendly disposal



You can help protect the environment!

Please remember to respect the local regulations: hand in the non-working electrical equipments to an appropriate waste disposal centre. The packaging material is recyclable. Dispose of the packaging in an environmentally friendly manner and make it available for the recyclable material collection-service.

**Manufacturer: Xiamen Lilin Technology Co.,Ltd.**

Address: Unit 201, Building#5 Haiyi Industrial Park, No.7, Kengping Road 361023 Xiamen City, Fujian Province, China