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Electric Instant Water Heater  
EQUATOR

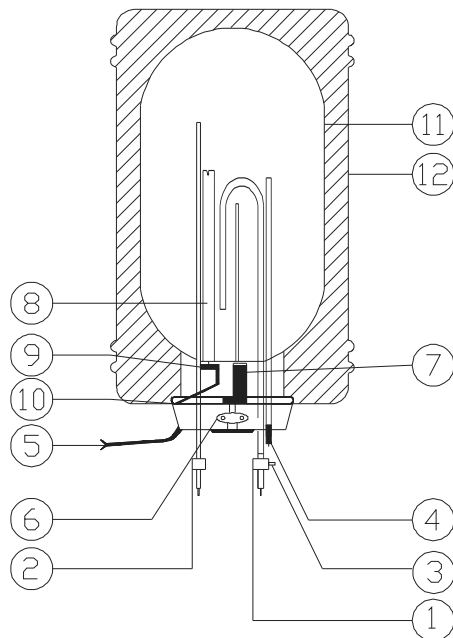


**Instruction Manual**

## IMPORTANT SAFETYGUARDS

1. This water heater should not be operated with insufficient amount of water. Failure to do so may result in damage to the water heater & injuries to users. This will also make the warranty null & void.
2. The water heater should be connected to the mains using a power plug conforming to national standards and suitable current carrying capacity.
3. Hot water over 50°C will cause scalding. In order to protect you and family especially for the safety of children, ensure that the hot water flow & cold water mix is adjusted in the faucet accordingly before usage. It is advised not to use the outlet from this water heater directly in a shower or in a faucet. Suitable mixing with cold water is required before usage.
4. Please read all instructions, before installing and operating the water heater.
5. Proper earthing must be ensured before operating.
6. Do not use the product outdoors or mount on wet surfaces
7. Always switch off when the heater is not in use
8. Do not operate if the product is found in damaged condition. Do not attempt to open / repair the appliance or allow any unauthorized person to do so. Send this water heater to the dealer from whom you bought it or to authorized service centre.

## PART IDENTIFICATION

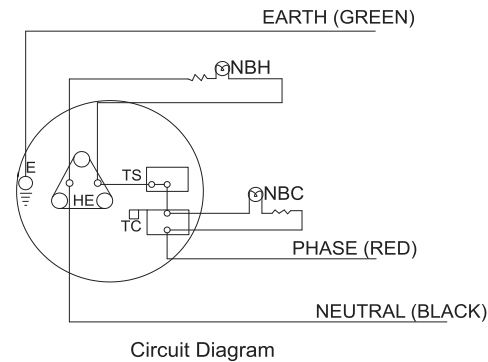


### Parts Name :

1. Water Inlet Pipe
2. Water Outlet Pipe
3. Safety Valve
4. Fusible Plug Pipe
5. Electric Cord
6. Indicator
7. Thermostat Automatic
8. Heating Element
9. Thermal Cut Out
10. Thermal Cut Out Reset Knob
11. Water Tank
12. Outer Casing

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## WIRING AND PLUMBING



### Index

- HE - Heating element
- TS - Thermostat
- TC - Thermal cut out
- NBH - Neon bulb heating
- NBC - Neon bulb cut out
- E - Earthing terminal

### Mounting

Mark the position of wall mounting bracket slots on the wall. Securely M12x80 HEX (12 mm x 80 mm long hexagonal) bolts at the marked positions. Mount the water heater to the bolts. Ensure that the Water Heater is mounted in a vertically upright position.

### Plumbing

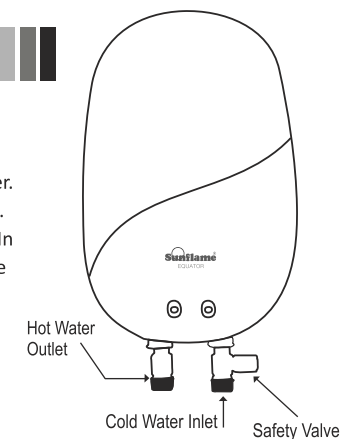
After proper mounting of the Water Heater, the outlet pipes are to be connected with 1/2" BSP union coupling. Proper plumbing should ensure no leakages from the joints. For various alternative ways of installation, please refer to installation charts.

### Wiring

As depicted by the schematic diagram, the internal wiring and connections are complete and tested. The three core power cord is to be connected with a 3000 W, 15 Amp power plug should be used and for 4500 W, 20 Amp power plug should be used. This should be BIS certified in view of product performance and safety. Ensure that the connections in the plug and socket are rigidly fixed and there are no loose contacts.

## INITIAL FITMENTS AND CHECKS

1. Open hot water outlet to permit the air to escape.
2. Open the cold water inlet valve fully, filling the heater.
3. Close the hot water outlet when water starts to flow.
4. Check all the connections to see if there is any leak. In case of a leak, drain the heater completely, repair the leaking joint and then refill the heater.



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## HOW TO USE THE APPLIANCE

1. Ensure the installations is done as per instructions (Mounting, Plumbing & Electrical Connections).
2. Ensure that water is flowing through inlet into the heater.
3. Plug in & switch on the electrical supply.
4. Once the water heater is switched on, the red indicator will glow. Red light indicates the heating & green light indicates the temperature has been reached.
5. After the water reaches the preset temperature, the green light will switch on indicating that the heating is completed & water heater is in standby mode. The water heater will be in standby mode until the hot water is withdrawn from the outlet or the temperature of the water drops due to passage of time.
6. Open the outlet to get the hot water. Upon withdrawing sufficient amount of hot water, the water heater will again enter into heating mode. This is indicated by glowing of red light.
7. After usage, switch off the electrical supply & close the outlet valve.

## PRODUCT FEATURES

### Water Tank

The Water Heater is fitted with an inner tank of stainless steel which is suitable for both hard and soft water. Each tank is hydraulically tested to withstand 100 psi g( 7kg/cm ), whereas the normal working pressure is 50 psig ( 3.5kg/cm).

### Insulation

The water heater has been designed for a high degree of thermal efficiency. Resin bonded glass wool is filled between the water tank and the casing prevents heat loss and retains the heat for longer periods. Puf insulation in Equator models saves electrical energy upto 40% compare to ISI Norms

### Heating Element

The heating element is ISI marked, embedded type nickel plated copper, sheathed, tubular and mineral filled, which ensure quick and efficient heating and long life.

### Pilot indicators

Each water heater has two flush mounted neon indicator lamps. The "Heating" lamp indicates normal, automatic heating process which gets switched off when the desired water temperature is achieved. The "Cut-Out" lamp glows whenever the thermal cut -out operates and breaks the electric supply, in case of thermostat failure or dry heating of the heating element.

### Thermostat

This is provided to control the temperature of water at a desired level between 58°C to 65°C. This is also the first level of built-in safety.

### Thermal Cut-Out

This is the second level built-in safety device which is provided to operate, when either the thermostat has failed or dry heating has taken place. This is set to operate at 81°C to 88°C and its operation is inducted by the neon bulb "Cut-Out". In case of thermal cut-out tripping due to dry heating, the cut-out may be reset by opening the screw of front cover and rotating the plate to access the lever/knob of thermal 'Cut-Out'. Press this lever knob to reset the cut-out wherever cut-out is on due to other reasons. The user is advised to contact the dealer for rectification.

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### Built-in Pressure Relief Valve

This is a double safety device which takes care of any pressure built up in the water heater ,as well as the incoming pressure by opening and starting to drip. This is set at 50 to 60psig and acts as a third level built-in safety device and also as an inlet pressure regulator.

## TROUBLE SHOOTING

Problem	Possible Cause(s)	Solution
Indicator Light Off	No power to heater	Turn on electrical switch. Check ELCB
No hot water	Thermal cutout switch open	Press Reset button
	Control circuit or internal wiring error	Contact Customer Care
Red light continuously ON No hot water	Non-functioning thermostat	Contact Customer Care
	Control circuit or internal wiring error	
Water heats slowly	Non-functioning element	Contact Customer Care
Thermostat does not shut off	Non-functioning thermostat	Contact Customer Care
Piping connection leakage	Connection not sealed	Check plumbing
Water dripping from body	Tank or parts leak	Shut off power immediately and Contact Customer Care

## TECHNICAL SPECIFICATION

Power Supply : 230 V 50 Hz Single Phase AC

Model No.	Equator	Equator
Capacity	1 Ltr	3 Ltrs
Wattage (W)	3000/4500	3000/4500
Water Tank	SS	SS
Outer Body	ABS	ABS
Inlet and Outlet Connection	½" BSP	½" BSP
Type Class I Drip Proof		

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