



Electric Storage Water Heater

GRACE



Sunflame Enterprises Private Limited
58, Sector 27C, Mathura Road,
Faridabad-121 003, Haryana, India

Incase of any suggestion / complaint, please
contact customer care at 1860 330 9999 or
e-mail at customercare@sunflame.com or
write in at the above address.

www.sunflame.com

Instruction Manual

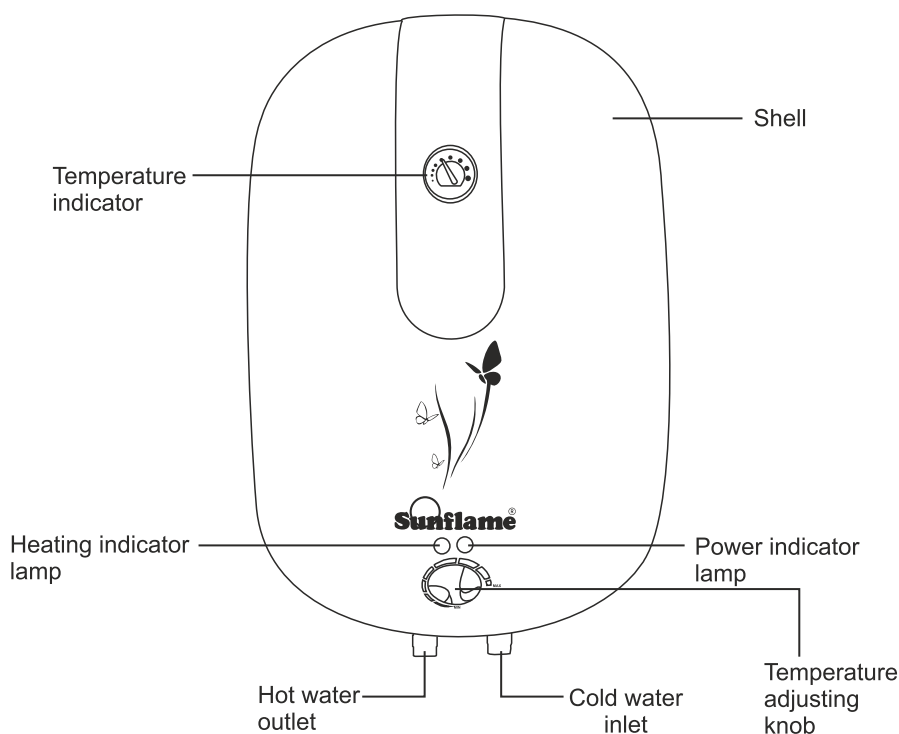


CONGRATULATIONS

You are now the proud owner of a sleek yet sturdy and highly dependable Storage Water Heater from Sunflame - a renowned and most trusted name in Home Appliances.

Sunflame water heater is specially designed to handle your toughest requirements in Water Heating and gives you uninterrupted service year after year. To get the best from your new purchase, we are providing you with some important and useful information about the salient features, installation details and operating instructions of your water heater.

WATER HEATER



①

1. **Outer Casing:** High precision engineered strong plastic body for extra durability and finish.
2. **Inner Tank:** Made of high quality steel with Vitreous Enamel coating, which can With stand a maximum working pressure of 8 kg/cm²(114 PSI). Suitable for multi storied buildings.
3. **Copper Heating Element:** ISI Mark, heavy duty copper element for durability, efficiency and convenience.
4. **Insulation:** Inner container is insulated with CFC free PUF (Polyurethane Foam). It prevents heat loss and keeps the water hot for a long time and thus saves power.
5. **Magnesium Anode:** A resistor magnesium anode rod, which extends the life of inner tank & internal components.
6. **Temperature Adjuster:** The adjustable capillary thermostat provides a selection of settings to cut off temperature from 45°C to 75°C.
7. **Indicator Lamps:** The 'Red' indicator lamp indicates that the power supply is on and the 'Green' indicator lamp indicates that the "HEATING" process/cycle is on.

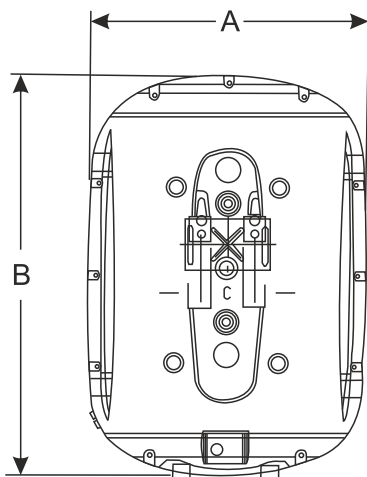
MULTI LEVEL SAFETY FEATURES

1. **Thermostat:** An adjustable, capillary type, snap action thermostat with temperature range between 45°C to 75°C, cuts the electric power supply as soon as the water temperature rises above the set temperature and restarts automatically when the temperature goes low.
2. **Thermal Cut-Out:** It is a capillary type, snap action device, set to operate at 92°C in abnormal conditions. If the water temperature inside the tank exceeds 92°C, the thermal cut-out cuts the power supply.
3. **Multi Function Safety Valve:** A multi functional safety valve provides safety at various levels & functions as follows:-
 - a. **The External pressure relief :** Set at 8 kg/cm², it prevents the pressure built-up inside the tank by bleeding out the water through the PRV, when the incoming pressure exceeds the set pressure.
 - b. **The Internal pressure relief:** It protects the inner tank from excess pressure built-up during heating.
 - c. **Non Return Function:** A non return valve is provided to prevent the back flow of water through inlet pipe.
 - d. **Anti Vaccum Function:** This will avoid the formation of vaccum inside the water heater and thus protect it.
 - e. **Drain:** This will enable to drain the water heater.
4. **Resistor Magnesium Anode Rod:** It will serve as a sacrificial anode to protect the inner tank from corrosion.

②

TECHNICAL SPECIFICATION CHART

Capacity	6 L	10 L	15 L	25 L
Reheating Time	20 mint. max.	40 mint. max.	65 mint. max.	80 mint. max.
Mean Hot Water output	45°C min.	45°C min.	45°C min.	45°C min.
Mixing Factor	40% max.	40% max.	40% max.	40% max.
Mounting Style	Vertical	Vertical	Vertical	Vertical
Power	2kW	2kW	2kW	2kW
Pressure	8kg/cmsq	8kg/cmsq	8kg/cmsq	8kg/cmsq
Inlet & Outlet Thread Size	21mm (1/2" G)	21mm (1/2" G)	21mm (1/2" G)	21mm (1/2" G)



MOUNTING DIMENSIONS (in mm)

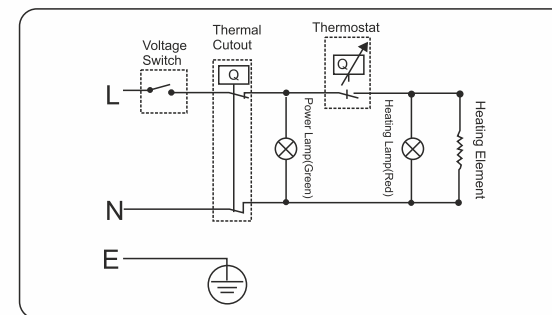
Capacity	A	B	C
6L	285	355	175
10L	295	435	175
15L	330	480	175
25L	390	580	175

TOLERANCE +/- 10mm.

ELECTRICAL CONNECTION

The power cord should be connected to a 15A socket controlled by a 15A switch. Adequate earthing should be provided to the water heater. Inside electrical connection of the water heater is shown in the following figure.

ELECTRICAL DIAGRAM



INSTALLATION INSTRUCTIONS

- Engage a licensed plumber and electrician for the installation of the water heater.
- The water heater should be connected through shock protection device like ELCB and short circuit protection device like MCB.
- The power supply cord should be connected to a suitable rated socket outlet. Ensure that the connection between the plug and socket is secure and proper earthing is provided to the unit.
- The water heater should be about 1.8 m above the floor. There should be a clearance of 0.5 m between the top of the water heater and the roof. Sufficient space should be provided around the unit for easy installation and servicing.
- Drill holes in the wall as per the 'Mounting Dimensions' table & insert the supplied expandable bolts in the holes.
- The cold and hot water pipes should be connected to the water heater directly through a flexible hot water pipe of good quality.
- The water heater should be connected directly to 'an overhead tank. The inlet pressure should not exceed 8 kg/cm². If the pressure is more, a pressure reducing valve should be connected at the inlet. The bottom of the overhead tank should be at least 1.5 m from the top of the water heater.
- The distance between hot water taps and the water heater should be as short as possible for better results.
- Provide a ball valve at the inlet plumbing line for repair/ maintenance purpose. Ensure that this valve is always kept open after installation.

OPERATING INSTRUCTIONS

1. Open the inlet and outlet valves and allow the water heater to fill with water. After it is full, the water will start flowing through the outlet. Do not switch on the water heater until it is completely filled with water.
2. Always keep the inlet valve open.
3. Turn ON both the power supply and the geyser body switch. The 'Red' indicator lamp indicates that the power supply is on and the 'Green' indicator lamp indicates that the "HEATING" process/cycle is on.
4. Set the cut-off temperature of thermostat by rotating the temperature control knob. For maximum heat, adjust it to the highest position.
5. When the water heater reaches the specified temperature, the indicator lamp will go OFF indicating that the thermostat has operated and power supply to the heating element will cut-off.
- 6 Initially a storage water heater takes more time to get heated . So it is advised to switch ON the heater at least 30 minutes before use.
7. For continuous use, the water heater can be kept ON. The automatic operation of the thermostat ensures the water temperature is maintained at the preset level.

WARNING

1. Safety valve and thermal cut out are preset and are sensitive devices. Tampering them could damage the unit and even prove hazardous. This should be strictly avoided.
2. Heater must not be switched ON unless it is completely filled with water.
3. For the sake of safety, switch ON the water heater after opening the outlet valve. Switch OFF the heater before closing the valve.
4. Do not provide any extra non-return valve at the inlet.

IMPORTANT NOTICE

In view of continuous improvement; the design, specifications and features of the product are subject to change without prior notice.