

Sunflame[®]

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Cover Back

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Electric Storage Water Heater

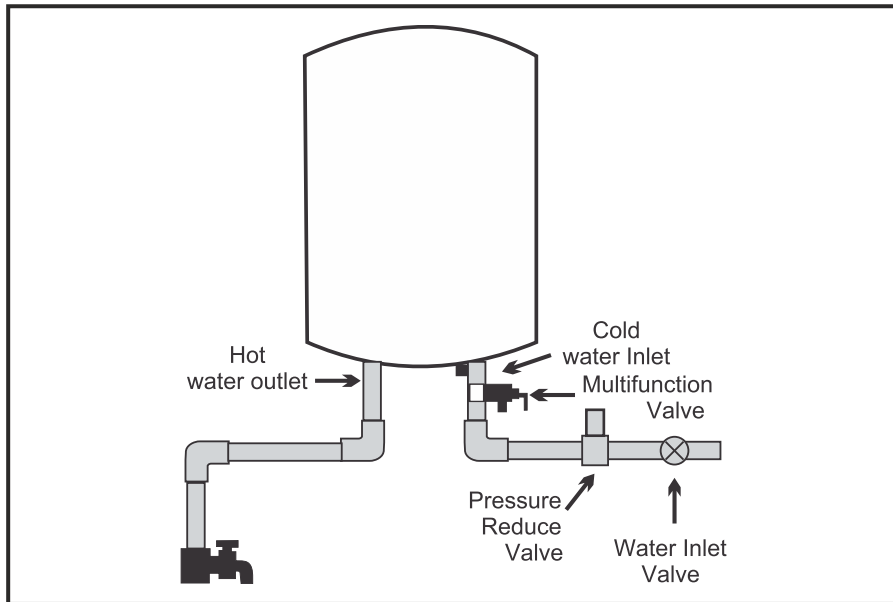
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Instruction Manual

Cover Front

WATER HEATER



1. **Outer Casing:** A strong outer container made of MS with special coating for extra durability and finish.
2. **Inner Tank:** Made of high quality steel with Vitreous Enamel coating, which can withstand a maximum working pressure of 8 kg/cm²(114 PSI). Suitable for multi storied buildings.
3. **Heating Element:** High efficiency, tubular type heating element made up of durable material for extra long life.
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 magnesium anode rod, which extends the life of inner tank & internal components.
6. **Temperature Adjuster:** The adjustable capillary thermostat provides a selection of setting the cut off temperature from 30°C to 75°C.
7. **Neon Lamp:** The indicator lamp indicates the "HEATING" process/cycle.

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MULTI LEVEL SAFETY FEATURES

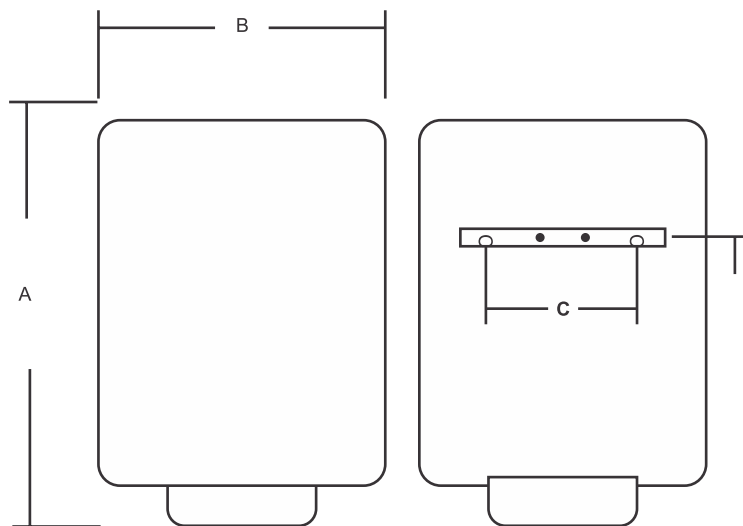
1. **Thermostat:** An adjustable, capillary type, snap action thermostat with temperature range between 30°C to 75°C, cuts the electric power supply as soon as the water temperature rises above the set temperature and restarts automatically when the temperature goes low.
2. **Thermal Cut-out:** It is a thermal cut out disc 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. **Magnesium Anode Rod:** It will serve as a sacrificial anode to protect the inner tank from corrosion.

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TECHNICAL SPECIFICATION CHART

| | |
|-------------------------------|----------------------|
| Capacity | 10/15/25/35/50 Litre |
| Mounting Style | Vertical |
| Voltage | 230V AC, 50Hz |
| Power | 2kW |
| Pressure | 8 Kg/cm ² |
| Inlet & Outlet Thread Size | 21 mm (1/2" BSP) |

| Capacity | 10 L | 15 L | 25 L | 35 L | 50 L |
|-----------------------|----------------|----------------|----------------|-----------------|-----------------|
| Mean Hot Water Output | 45°C Min. | 45°C Min. | 45°C Min. | 45°C Min. | 45°C Min. |
| Reheating Time | 40 Minute Max. | 65 Minute Max. | 80 Minute Max. | 100 Minute Max. | 120 Minute Max. |
| Mixing Factor | 40% Max. | 40% Max. | 40% Max. | 40% Max. | 40% Max. |



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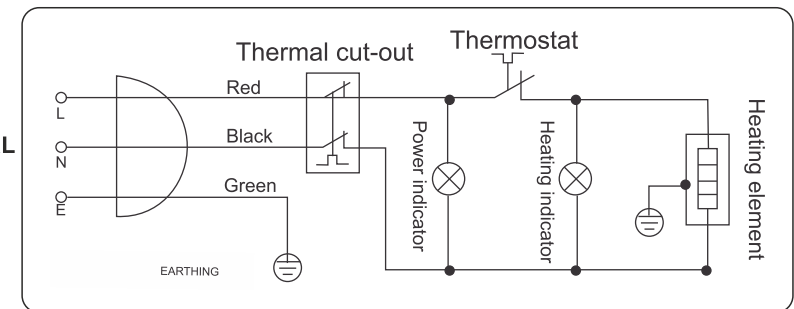
MOUNTING DIMENSIONS (in mm)

| Capacity | A | B | C |
|----------|-----|-----|-----|
| 10 L | 390 | 315 | 222 |
| 15 L | 490 | 315 | 222 |
| 25 L | 560 | 360 | 222 |
| 35 L | 690 | 432 | 222 |
| 50 L | 820 | 432 | 222 |

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

1. Engage a licensed plumber and electrician for the installation of the water heater.
2. The water heater should be connected through shock protection device like ELCB and short circuit protection device like MCB.
3. 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.
4. 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.

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5. Drill holes in the wall as per the 'Mounting Dimensions' table & insert the supplied expandable bolts in the holes.
6. The cold and hot water pipes should be connected to the water heater directly through a flexible hot water pipe of good quality.
7. The water heater should be connected directly to an overhead tank. The inlet pressure should not exceed 8 kg/cnf. 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.
8. The distance between hot water taps and the water heater should be as short as possible for better results.
9. 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. Switch ON the supply. The indicator lamp on the control panel will light-up, indicating that the heating process 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.

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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.

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