

**INALSA**

**INSTANT  
WATER HEATER**

**PSG1/MSG1/  
PSG3**

—+—  
INSTRUCTION MANUAL

Dear Customer,

Congratulations! on the purchase of your **INALSA Instant Water Heater**

This has been designed to include many superior features. You are now on the threshold of a whole new world.

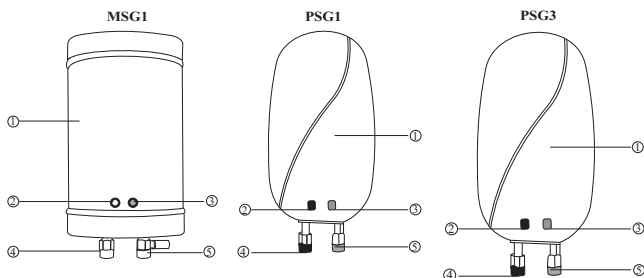
At INALSA, we have a reputation of manufacturing innovative, high quality appliances such as Food Processors, Mixer Grinders, Juicer Mixer Grinders, Cooking Ranges, Juice Extractors, Cooktops, Microwave Ovens, Oven Toaster Grillers, Hand Blenders, Electric Kettles, Rice Cookers, and Electric Chimneys. Your newly acquired **INALSA Instant Water Heater** bears the same distinctive hallmark of excellence.

It is all the result of vigorous quality consciousness in INALSA's design and development where uncompromising standards are maintained and rigid quality control measures are exercised on raw materials, components and finally, the finished product.

Your **INALSA Instant Water Heater** has a lot of thoughtful features built in to make your working convenient. Please read these instructions carefully, so that you may get the best out of the power packed features in your **INALSA Instant Water Heater**.

Welcome to the INALSA world of living pleasure!

## Parts Identification



### Part No.

- 1.
- 2.
- 3.
- 4.
- 5.

### Parts Name

- Outer body
- Indicator lamp (Power)
- Indicator lamp (Cutout)
- Water inlet (Blue)
- Water outlet (Red)

## Technical Specifications\*

| Model No.                                 | MSG 1   | PSG1    | PSG3    |
|---|---|---------|---------|
| Capacity (in l)                           | 1   | 1       | 3       |
| Wattage (in kW)                           | 3.0   | 3.0     | 3.0     |
| Power supply                              | 230V, 50Hz, AC, Single Phase                  |         |         |
| Max. pressure rating (psi)                | 100   | 100     | 100     |
| Normal working pressure rating (psi)      | 22  | 22      | 22      |
| Minimum hot water output temperature (°C) | 40  | 40      | 40      |
| Outer body                                | MS, Powder Coated                             | Plastic | Plastic |
| Indicators                                | Power, Cutout                                 |         |         |
| Water tank                                | Stainless Steel                               |         |         |
| Heating element                           | Copper sheathed, Tubular with mineral filling |         |         |
| Thermostat                                | Stem-type Pre-set at 60°C                     |         |         |
| Thermal cutout                            | Stem type, Reset type to operate at 90°C      |         |         |
| Fusible plug                              | Operate at 98°C                               |         |         |

\* Due to continuous improvements in product, specifications are subject to change without prior notice.

## **Features**

1. High grade stainless steel tank
2. Long life copper tube heating element
3. Thermostat & thermal cut out for safety
4. Fusible plug & BPRV for total safety

## **Important Instructions**

Please read operating instructions before using the appliance to ensure safe and reliable performance.

### **Do's**

1. Before plugging in the socket ensure that the mains voltage complies with the rated one.
2. The gate valve at the inlet shall be kept open.
3. Make sure that no other appliance(s) is (are) plugged into the same circuit with heater, as this may overload the circuit.
4. If the main cord of the heater is damaged, authorized service personnel must only replace it.

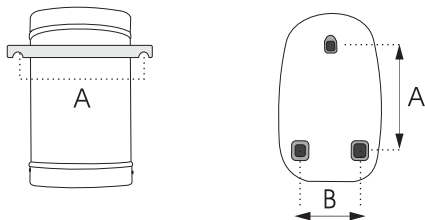
### **Don'ts**

1. Do not switch ON the heater till it is completely filled with water.
2. Do not install a pressure reducer valve at the inlet.
3. Safety devices are pre-set and sensitive. Do not temper with them. This could be hazardous.
5. Do not use outdoors. This product is for household use only.
6. In case of any abnormality during operation, immediately switch OFF the main power supply and contact the nearest service center.

## **How to Install**

1. Installation shall be done by a qualified plumber / electrician.
2. There should be enough space around the heater for easy installation and servicing.
3. Make sure that the supporting walls or fixtures are strong enough to carry the weight of the heater when it is completely filled with water.
4. Fix the water heater in perfectly straight position at a suitable height from the floor.
5. There should be a minimum space of 50 cm between the heater unit and roof. This is to ensure that heater can be removed easily when required.
6. The heater should be saved from being damaged by splashing water. For this keep a minimum distance of 1.8 m between the floor and bottom of the heater.

## **Installation Positions**



## **Mounting Dimensions**

| Model | A     | B      | Pipe Connection (mm) |
|-------|-------|--------|----------------------|
| MSG1  | 140mm | -      | 12mm (1/2")          |
| PSG1  | 65mm  | 175mm  | 12mm (1/2")          |
| PSG3  | 80 mm | 195 mm | 12mm (1/2")          |

## **Water supply**

1. You can connect the water heater directly to the overhead water supply tank. Do not connect the water heater directly to water lifting pumps.
2. The water level should not be too low. The minimum height between the heater and water supply should be at least 2m.

## **Water connections**

- Do not connect the cold and hot water pipelines directly to the heater. Instead connect them using flexible copper pipes. Never use plastic tubes especially at the outlet, as it cannot withstand heat over extended usage. In case of direct pipe connections, tightening of couplings using wrench can damage the heater unit. Always use control / gate valves at the inlet and outlet. Ensure that the valve at the inlet is always open.

## **How to Use**

1. Do not switch ON the power supply before filling the heater with water.
2. Leave the hot water outlet open and open the inlet valve to allow the heater unit to be filled with water. When the heater is full the water will start flowing out from the outlet.

- Now close the gate valve at the outlet. Always keep the inlet valve open.
- Switch ON the power supply. Red neon lamps will glow 'ON' to indicate that power is ON and water is getting heated.
- Switch OFF the power supply when the unit is not in use.

## **Safety Devices**

### **Thermostat**

An adjustable bimetallic stem type snap action thermostat with temperature range between 25 °C to 75 °C, generally set at 60 °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.

### **Reset type thermal cutout**

It is bimetallic type snap action device set to operate at 90 °C. In abnormal conditions, if the water temperature inside the tank exceeds 90 °C or if the water heater is switched on without water the thermal cut out cuts the power supply and protects the system.

### **Fusible Plug**

Accidentally if the thermostat and the thermal cutout fails to operate, the fusible plug melts at around 98 °C reducing the water steam pressure inside the tank.

## **Cleaning and maintenance**

### **Routine Inspection/Maintenance Chart**

| <b>S.No.</b> | <b>Inspection item</b> | <b>Frequency</b>                         | <b>Remarks</b>  |
|--------------|------------------------|--|---|
| 1.           | Fusible plug           | Every 3 months/<br>1 yr. of seasonal use |   |
| 2.           | Heating element        | 18 months/6 yrs.<br>of seasonal use      | In case of bad water  |
|              |                        |  | Quality, inspect after every 6 months of continuous use or every two years of seasonal use. |