**SAFETY PRECAUTION**
This sign warns of serious injury, death, or property damage and potential death. Before operating, please read the following safety precautions carefully.

**PARTS IDENTIFICATION**

**EXTERNAL PARTS**
- Slider Bar
- Hand Shower (3 Click Spray)
- PRESS Button
- Hand Shower Holder
- PVC Hose and Washer
- Bar Bracket

**INTERNAL PARTS**
- Heating Element
- Thermostat / Thermal Cut-Out
- Heater Tank
- Outlet Pipe
- Potentiometer
- Inlet with Flow Sensor Switch
- Wire Grommet
- Heater Glass
- 3 Way Wire Connector
- EELS Board (For SA10e only)
- Electronic Control Board
- Triac
- Reed Switch
- SVF Valve and Washer

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Electrical Loading</th>
<th>2.2kW</th>
<th>3.3kW</th>
<th>4.4kW</th>
<th>5.5kW</th>
<th>6.5kW</th>
<th>7.5kW</th>
<th>8.5kW</th>
<th>9.5kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>50/60Hz</td>
<td>50Hz</td>
<td>50Hz</td>
<td>50Hz</td>
<td>50Hz</td>
<td>50Hz</td>
<td>50Hz</td>
<td>50Hz</td>
<td>50Hz</td>
</tr>
</tbody>
</table>

**FEATURES**
- **Electronic Power Control**
  This continuous variable electronic power control with temperature control knob selection from "OFF" to "MAX" enables you to select your desired shower temperature. Thus saves your electric power consumption.

- **Safety Thermostat / Thermal Cut-Out**
  It prevents the heater from overheating and thus eliminates the dangers of scalding to the user.

- **Auto Flow Sensor Switch**
  It operates the heater only when there is sufficient water flow and turns off the heater when the shower is off, thus no power wastage. In case the water outlet gets blocked, it automatically cuts power to the heater, thus avoids the danger of scalding.

**INSTALLATION INSTRUCTION**

**3.1 HEATER INSTALLATION**

**IMPORTANT**
- Installation should be carried out by qualified personnel with close reference to this instruction manual and to the local authority.
- This appliance must be installed indoor only.

1. Remove the screw X. Gently lift up the cover.
2. Select a suitable position in the bathroom, mark the screw points A, B, C on the wall with the heater base and screw points D & E for slider bar.
3. Use 6x mm drill and make the wall plug holes to 22 mm depth. Insert the wall plugs.
4. Mount the heater firmly into position with the screws.

**3.2 SLIDER BAR SET INSTALLATION**

1. Pull out both caps from the bar brackets.
2. Insert the hand shower holder into the slider bar by pressing the button.
3. Screw the bracket to the position 'E' and push the slider bar to its position then place the cap.
4. Insert slider bar into the bar bracket and leave it hanging.
5. Screw the bracket to the position 'D' and push the slider bar to its position then place the cap.
6. Centralize the hole position then place the cap to lock the slider bar position.

**3.3 PLUMBING CONNECTION**

[Diagram of plumbing connections]
3.4 ELECTRICAL CONNECTION

- All plumbing works must be completed and heater tank filled with water before proceeding to electrical connections. This will prevent any damage to the appliance.
- Ensure that the electrical supply is single-phase at 220 to 240 Volts.
- The appliance must be electrically bonded. The use of plug & socket is not recommended.
- It is recommended to use an approved current operated type Earth Leakage Circuit Breaker (ELCB) / Residual Current Circuit Breaker (RCCB) of 10mA sensitivity and higher than rated current (Refer to table).
- This appliance must be permanently connected to the electrical supply through a double pole fused switch above rated current (Refer to table) and having a separation of at least 3 mm in all poles. Incorporated in the fixed wiring. The switch must be out of reach from user in the bathroom.
- Do not share the electrical supply with other appliances.

Table: Electrical Loading Table

<table>
<thead>
<tr>
<th>Voltage (V)</th>
<th>Power (W)</th>
<th>Current (A)</th>
<th>Conduct Cable (No. 8 mm²)</th>
<th>Flexible Cable (No. 8 mm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>220</td>
<td>2.0</td>
<td>10</td>
<td>2.5</td>
<td>7.0/0.65</td>
</tr>
<tr>
<td>230</td>
<td>3.0</td>
<td>15</td>
<td>3.0</td>
<td>7.0/0.65</td>
</tr>
<tr>
<td>240</td>
<td>3.8</td>
<td>20</td>
<td>2.5</td>
<td>7.0/0.65</td>
</tr>
</tbody>
</table>

Recommended Electrical Connections
- MCB / RCCB

10mA ELCB / RCCB

Double Pole Linked Switch

7. CLEANING SVF VALVE

- This innovative and compact SVF valve helps to control and filter the inlet water. Turning the knob clockwise will turn on the water flow, while turning the knob counterclockwise will stop the water flow. Clean the filter inside the SVF valve if there is a sign of inlet water blockage. This can be done by removing the screw and pulling out the filter assembly. Clean it with a soft brush.

8. TROUBLESHOOTING

1. Check the following points for better performance:

   - Check whether all stops valves are opened.
   - Check whether the water supply is there.
   - Check the filter washer and spray seat of hand shower if it is clogged by dirt.
   - Check the SVF valve and filter if it is clogged by dirt.

2. Check whether electrical supply is switched on.

   - Check whether water supply pressure is sufficient. (Heater requires minimum pressure of 1.46 psi or water flow rate of 2.2 liters per minute)

   - Check whether valves are opening or closing.

   - Check whether water flow is too strong. (Replace the water flow for hand shower. Less water, more flow.)

   - Shower could be at too high, turn to low spray.

3. Check whether water temperature is controlled.

   - Inefficient water running.
   - EELS continuously piping (For SA10s only).

9. PRODUCT WARRANTY

   - WARNING: NEVER TRY TO REPAIR THE UNIT YOURSELF. SPECIAL SKILL IS REQUIRED.

   - WARRANTY VALID 1. This warranty does not cover lighting, natural disaster, pest attacks, fire, negligence, misuse, accidents, floods, deluge, drought, neglect, improper installation, or improper maintenance and abnormal voltage or the usage of generator.

   - Failure to follow the instructions will void the warranty.

   - Repair or attempted repair of this product by anyone not authorised by JOVEN.

   - Any unit which has been modified or on which the serial number has been defaced, altered or removed.

   - Note: Refer to your local distributor for warranty terms & conditions.

Manufactured by: JOVEN ELECTRIC CO.