# ELECTRIC WATER HEATER





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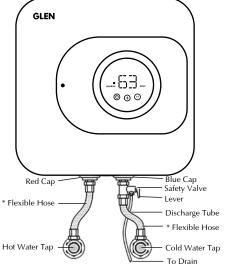
Dear Customer,

We congratulate you on choosing a GLEN Electric Water Heater.

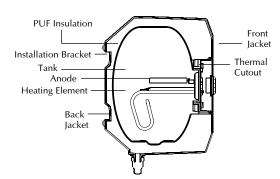
Meticulously designed, using only the highest quality materials and components, your electric water heater have many years of trouble free service.

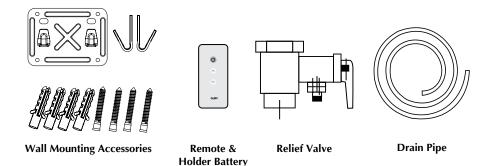
To enable your electric water heater to give you many years of perfect trouble free service, we recommend you to follow the instructions of the service manual carefully.

# **Identifying Your Water Heater**



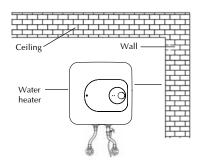




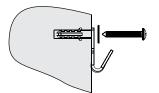


## **Installing Your Water Heater**

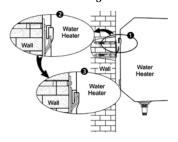
- Make sure that the wall can withstand at least twice the weight of the water heater when completely filled with water.
- Before locating the position for installation of the water heater, make sure that there is sufficient clearance between the ceiling and the side wall.
- 3. Use a drill bit with diameter of 5mm to drill 4 holes at least 40mm deep in the wall. The four holes should be aligned horizontally. The horizontal distance between the 2 holes should be 90 mm.
- Insert the expansion anchors into the holes. Place the wall mounting bracket over the expansion anchors and tighten the screws on the bracket.
- Place the water heater on the wall mounting bracket using hanger hooks. Tug downwards on the heater to ensure that the water heater is fixed steadily.



Installation of wall mounting bracket



Inserting the water heater into mounting bracket



# **Plumbing**

- 1. Make necessary plumbing with reference to the installation diagram. (Fig.1)
- 2. GLEN recommends to use Stainless Steel (SS) Flexible Hoses having a minimum pressure rating of 8 Bar and hoses should be compatible for hot water applications.
- 3. Connect the cold water pipe to the inlet (Blue Cap).

- 4. Connect the hot water pipe to the outlet (Red Cap).
- 5. Attach the discharge tube to safety valve as shown in installation diagram. (Fig.1)

#### Attention: Make sure a suitable sealing tape is used for all connections to prevent leakage.

- 1. Water heater need to be installed at least 2 feet away from walls, ceiling and floor for optimum performance of the product
- 2. Optimum performance of the water heater is achieved when the total hardness of water is <400 ppm and chloride content is <300 ppm
- 3. Anode to be checked periodically within a frequency of 6 months if found consumed should be replaced on chargeable basis.
- 4. Water heater should not be switched on if there is a possibility of water frozen inside water heater

# **Water Filling**

- 1. Open a hot water faucet nearby to permit the air to escape.
- 2. Open the cold water inlet valve fully, filling the heater and the piping.
- 3. Close the hot water faucet when water flows.
- 4. Check all the connections to see if there is any leakage, drain the Water Heater completely, repair the leaking joint and then refill the Water Heater.

### **Electrical Connections**

Make sure that the power cord and plug are connected with this water heater. Find a separate socket for power plug and make sure the socket is in firm contact with the plug. Ensure that reliable earthing has been done.

#### Caution:

- Connect the water heater using independent sockets. Do not use adapters.
   Use multimeter to check whether the live line and neutral line are not reverse, to ensure complete safety.
- Before installing the water heater confirm that the power of water heater matches electric meter capacity and supply wire.
- The water heater should be earthed reliably. It is prohibited to connect the earth wire to neutral wire or tap water pipe.
- Performance of the water heater will vary depending upon the Total dissolved Solids (TDS) content of water in the location and can have determined effect on the life of water Heater.
- After installation, Heat the water in the tank and drain it after the cut off.
   Do this activity twice and then use the water for further purpose. This activity helps to clean and rinse the inside of tank before the first usage.

### **Draining**

It is recommended that the tank be drained and flushed out every 6-9 months to remove sediment which may build up during operation. The water heater should be drained if being shut down during winter season.

For draining water from the water heater, following steps needs to be followed:

- 1. Switch off the electric supply to the water heater.
- 2. Open the hot water taps until the water is not hot any more.
- 3. Close cold water supply.
- Drain the water by moving the lever of safety valve in the direction of the arrow as indicated in the diagram.

Caution: Before using the water heater, make sure that it should be completely filled with water.

Please turn off the power supply to the water heater prior to draining the water heater.

Warning: 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 the users. This will also make the warranty null & void.

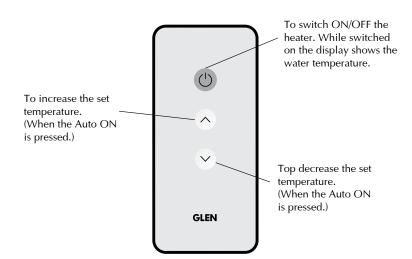
### Maintenance

- If the water heater is not in use frequently then there are chances of foul smell due to reaction of natural sulphates found in water with certain micro organism (bacteria) and/or generation of sediments in the tank. It is recommended to flush out the tank 2-3 times by heating the water above 60 degree.
- There are chances of hissing, cracking, popping sounds from water heater, this
  is probable because of mineral deposits accumulated on bottom of tanks. It is
  recommended to flush the tank periodically on regular basis.
- It is recommended that the inlet, outlet pipes and heating elements be descaled every 6 months. For descaling of tank use washing soda only.
- If the supply cord is damaged it should be replaced by a special cord or assembly available from authorized service centre only.
- To avoid deposition of salts in the safety valve, please move the lever up and down few times. This should be done at-least once a month.
- Your water Heater comes with MgO Anode Rod. It is recommended to replace it every 6 months. This helps to maintain the long life of water heater tanks, preventing from corrosion/leakages.

<sup>\*</sup> Flexible Hoses to be procured by the customer, not part of standard product

# **Control Panel Operations**

Fig.2 The LED display shows actual and set temperature. Indicator glows when the "heating" is progress. Indicator glows when the "warm" is progress. To decrease the set temperature. (When the Auto ON is pressed). To Switch ON/OFF the heater. While switched on the display shows the To increase the set water temperature. temperature. (When the Auto ON is pressed.)



Noted: Please long press "Reset" button three seconds for match code when the machine first time connect with electricity within 15 seconds. The remote control would be functional after completion of match code. Kindly double match code as before when the battery replacement.

### **Directions for use**

**Caution:** Before using the water heater, make sure that it should be completely filled with water.

The wireless remote works with one CR 2025/3V CELL.

Ensure that the wireless remote does not get in direct contact with water. Do not operate the remote with wet hands.

#### **Initial** power

When the water heater power supply plug is connected, it is in initial power on state. The led display on the control panel will glow and goes off as shown in Fig. 3.



Fig.3

#### **Power ON/OFF**

To switch on/off the water heater press ON/OFF key on the control panel or "O" on wireless remote. While switched on the LED display shows actual temperature of the water as shown in Fig. 4.



**Note:** The heating indicator glows when the heating element in switched on.

Fig.4

#### **Temperature setting**

Press "▲" (Increase), "▼" (Decrease) keys to adjust the Set Temperature. Set temperature increases or decreases by 1°C for each press from 25°C to 75°C. Wait for few seconds the value flashes for 5 times and the new temperature value is stored. The set temperature scrolls on pressing the keys continuously for 3 sec. The LED display glow as shown in Fig. 5.



rig.:

**Note:** The water is heated to the new stored temperature until the temperature setting is changed.

#### Operation of remote control

The operating method and function keys of the remote control as shown in Fig. 2.

- 1. Prior to operating the remote control, it is necessary to install the battery.
- 2. While the remote control in use, point it at the electronic controller, having a range within 50 m.

#### Note:

- Replace the batteries if the controller does not function correctly.
- Use one CR 2025/3V cell. Ensure to insert them in the correct orientation.
- When replacing the batteries, do not mix old and new or batteries of a different type.
- If the remote is not used for a long period, please remove the batteries.

# **Troubleshooting**

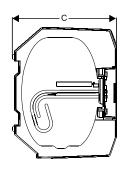
| Problem                        | Possible Cause(s)   | Solution   |
|--------------------------------|---|--|
| No hot water                   | Heater is not plugged in                                    | Plug in the heater                                       |
|                                | No power supply in power socket on the wall                 | Check the power socket                                   |
|                                | Heating element(s)<br>breakdown or internal<br>wiring error | Call Customer Care Center                                |
|                                | Cut out trip  | Reset cut out  |
|                                | Inlet Valve closed  | Open the inlet valve                                     |
| Water temperature is too high  | High limit trips  | Call Customer Care Center                                |
|                                | Power board damaged   | Call Customer Care Center                                |
| Piping connection leakages     | Connection not sealed                                       | Re-connect piping, be sure to use tape thread sealant    |
| Leakage                        | Leakage in tank or other parts                              | Shut off power immediately and Call Customer Care Center |
| LED display error code "E1"    | Dry Heating   | Shut off power immediately and Call Customer Care Center |
| LED display error code "E2"    | Temperature Sensor circuit short or open                    | Call Customer Care Center                                |
| LED display error<br>code "E4" | Extra high temperature                                      | Call Customer Care Center                                |

# **Specifications**

| Capacity (Litre)         | 15            | 25      |  |
|--------------------------|---------------|---------|--|
| Voltage / Frequency      | 230 V / 50 Hz |         |  |
| Input Wattage            | 2000 Watt     |         |  |
| Temperature Range        | 25-75 °C      |         |  |
| Inlet/Outlet Connections | ¹/₂ Inch      |         |  |
| Net Weight               | 9.4 kg        | 12.6 kg |  |
| Rated Pressure           | 8 Bar         |         |  |
| BEE Star Rating          | 5 Star        |         |  |

Warning: Do not tamper or detach the safety valve from the water heater.

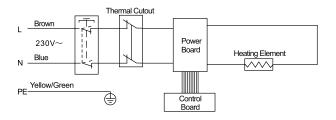




### **Dimensions**

| Capacity | 15 Litre | 25 Litre |
|----------|----------|----------|
| A (mm)   | 385      | 448      |
| B1 (mm)  | 385      | 448      |
| B2 (mm)  | 403      | 464      |
| B3 (mm)  | 443      | 512      |
| C (mm)   | 310      | 345      |

# **Wiring Diagram**



#### **Energy efficient**

- Superior Polyurethane foam keeps water hot for longer hours
- Lower your electricity bills.

#### 8 Bar Pressure Rating

- Designed to sustain high pressure
- Suitable for high rise buildings to pressure pump

#### **Incoloy Glass lined Heating Element**

- Incoloy Heating element provides quick heating of water.
- Provides superior protection against scale formation to extend the file.

#### Superior Glass lined coated Tank

 For corrosion protection and long life of tank and product

#### WARRANTY

7 Years Warranty on Glass lined tank 3 Years Warranty on Heating Element

2 Years Warranty on product

Note: As product up-gradation is a continuous process, design and specifications are subject to change without notice.

### Warranty

This GLEN Electric Water Heater is fully warranted against any defect arising out of defective materials or faulty workmanship for a period of two year from the date of purchase. Should any defect develop in this product, the customer should bring the product to the nearest authorised service centre, where the company undertakes to get the product repaired free of charge.

### This warranty is not valid if:

- The use and care instructions have not been followed.
- Defects are caused by accident, misuse, abuse or commercial use.
- The repair work is carried out by persons not authorised by the company.
- The serial no. has been deleted, defaced or altered.
- Any modification or alteration of any nature is made in the product.
- Normal wear & tear of the product is not covered under warranty
- The bill/cash memo and copy of warranty card is not presented.
- If the water heater has been used for commercial purpose.

PRODUCT: FLECTRIC WATER HEATER WH 7055 DIGITAL

Under no circumstances, whether based on limited warranty or otherwise shall the company be liable for incidental, special or consequential damages. Use of product indicates acceptance by you of the aforesaid terms and conditions

| serial no                  |      |  |  |  |
|----------------------------|------|--|--|--|
| Date of Purchase           |      |  |  |  |
|                            |      |  |  |  |
| NAME OF OWNER              |      |  |  |  |
| ADDRESS                    |      |  |  |  |
| BILL NO                    | DATE |  |  |  |
|                            |      |  |  |  |
| DEALER'S STAMP & SIGNATURE |      |  |  |  |
|                            |      |  |  |  |
|                            |      |  |  |  |
|                            |      |  |  |  |

#### GLEN APPLIANCES PVT. LTD.