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› [VEVOR](#) /

› VEVOR Electric Tank Water Heater, 12 Gallon, 1600W, Model FJI-POR-50S2 Instruction Manual

VEVOR FJI-POR-50S2

VEVOR 12 Gallon Electric Tank Water Heater

Model: FJI-POR-50S2

Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe installation, operation, and maintenance of your VEVOR 12 Gallon Electric Tank Water Heater. Please read these instructions thoroughly before installation and use, and retain this manual for future reference. This electric water heater is designed for point-of-use applications, providing hot water for 1-2 outlets, suitable for small apartments, studios, or remote water points.

2. SAFETY INSTRUCTIONS

WARNING: Failure to follow these safety instructions may result in property damage, serious injury, or death.

- Installation must be performed by a qualified plumber or electrician in accordance with all local codes and regulations.
- Ensure the power supply matches the specifications of the water heater (120V~60Hz).
- Do not operate the water heater if it is not completely filled with water.
- Install a Temperature and Pressure (T&P) relief valve as specified in this manual and local codes. Do not block or plug the T&P valve outlet.
- Keep flammable materials away from the water heater.
- Regularly inspect the unit for leaks, damage, or signs of corrosion.
- Disconnect power before performing any maintenance or service.

Multi-Layer Protection

Provide all-day peace of mind for the whole family



Dry Heating Protection:

Avoids fire caused by dry burning



Overheat Protection:

Reduces the risk of scalding from high water temperature



High-Pressure Protection:

Keeps the heater from pressure-related damage



IPX4 Waterproof Rating



This image illustrates the multi-layer protection features of the VEVOR water heater, including dry heating protection to prevent damage from dry burning, overheat protection to reduce scalding risk, high-pressure protection against pressure-related damage, and an IPX4 waterproof rating for enhanced safety.

3. PRODUCT OVERVIEW

3.1 Key Features

- **12-Gallon Capacity:** Suitable for 1-2 water outlets, ideal for small living spaces.
- **Fast Heating:** Equipped with a 1600W extended immersion heating tube for rapid and uniform water heating.
- **Excellent Insulation:** Features a 20 mm thick foam insulation layer to minimize heat loss and maintain water temperature.
- **Durable Construction:** High-temperature-resistant and corrosion-resistant enamel interior ensures long-term reliability.
- **Safety Protections:** Built-in dry heating, overheating, and overpressure protections, along with an IPX4 waterproof rating.
- **Easy Adjustment:** Simple rotary knob for temperature control and an LED indicator for heating status.

12 Gal Capacity for 1-2 Water Outlets



This image shows the VEVOR 12 Gallon Electric Tank Water Heater installed under a kitchen counter, demonstrating its compact size and capacity to supply hot water to both kitchen and bathroom outlets.

1600W Faster Heating Even Water Temperature

Extended Immersion Heating Tube

Rapid & Even Heating

This image provides a close-up view of the water heater's internal extended immersion heating tube, illustrating its design for fast and even water temperature distribution.

This diagram shows a cross-section of the water heater's construction, detailing the metal shell for high pressure resistance, the heat insulation layer for improved heat retention, and the enamel coating for corrosion resistance and long-term use.

3.2 Included Components

- 1 x Storage Water Heater
- 1 x T & P Relief Valve
- 1 x Security Valve
- 1 x Drain Hose

- 1 x Sealing Tape
- 1 x Hose Clamp

4. INSTALLATION

Proper installation is crucial for the safe and efficient operation of your water heater. Refer to local plumbing and electrical codes before beginning installation.

4.1 Site Selection

- Choose a location that is protected from freezing temperatures.
- Ensure the mounting surface is capable of supporting the full weight of the water heater when filled with water (approximately 100 lbs for 12 gallons).
- Allow adequate clearance for maintenance and service.

4.2 Plumbing Connections

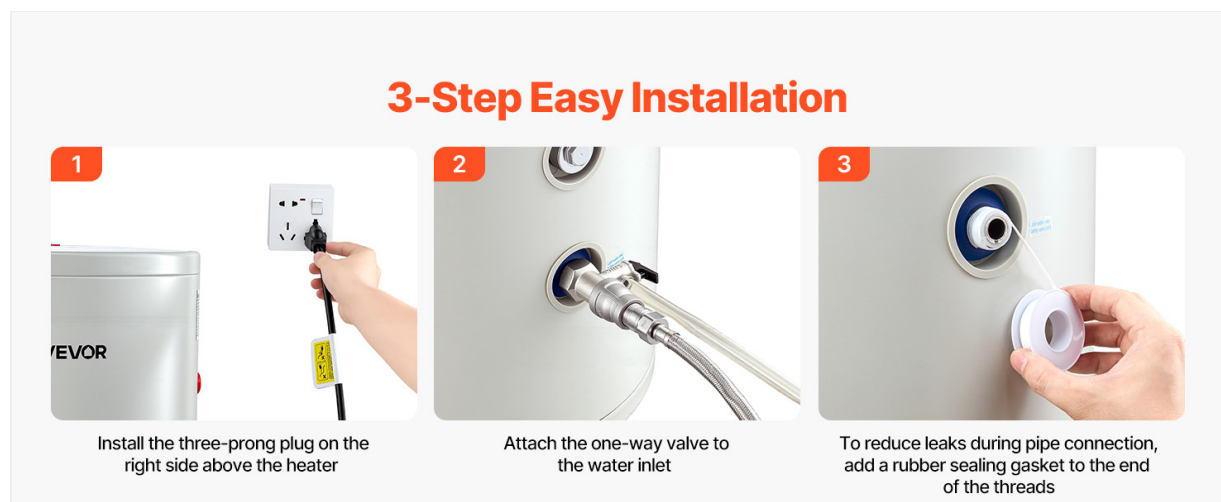
- Connect the cold water inlet (blue) and hot water outlet (red) to your plumbing system using 3/4 inch NPT fittings.
- Install the provided T&P relief valve into the designated opening on the top or side of the water heater. Route the discharge pipe from the T&P valve to an open drain.
- Use sealing tape on all threaded connections to prevent leaks.

4.3 Electrical Connections

- Ensure the power supply is disconnected at the circuit breaker before making any electrical connections.
- Connect the water heater to a dedicated 120V~60Hz electrical circuit with appropriate overcurrent protection.
- Follow the wiring diagram provided on the unit or in the full manual.

4.4 Filling the Water Heater

- Before connecting power, open a hot water faucet in your home to allow air to escape.
- Open the cold water supply valve to the water heater.
- Once water flows steadily from the hot water faucet, the water heater is full. Close the hot water faucet.



This image illustrates a 3-step installation process: 1. Install the three-prong plug on the right side above the heater. 2. Attach the one-way valve to the water inlet. 3. To reduce leaks during pipe connection, add a rubber sealing gasket to the end of the threads.

This diagram demonstrates two application scenarios: a 'Single Faucet Unit' where the heater supplies hot water directly to one faucet, and a 'Booster Unit' where it functions as a booster for an existing water heater system, ensuring continuous hot water during peak usage.

5. OPERATING INSTRUCTIONS

Once installed and filled with water, you can begin operating your VEVOR water heater.

5.1 Power On

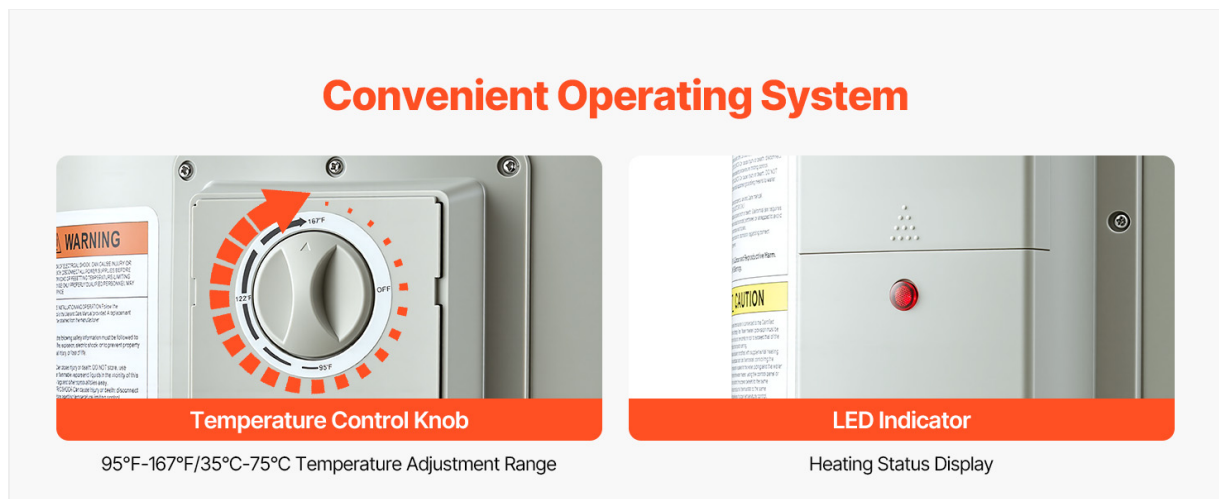
Turn on the electrical power supply to the water heater at the circuit breaker.

5.2 Temperature Adjustment

Use the rotary knob on the front panel to set your desired water temperature. The temperature adjustment range is typically 95°F-167°F (35°C-75°C).

5.3 LED Indicator

The LED indicator light will illuminate when the heating element is active and turn off once the set temperature is reached.



This image highlights the convenient operating system, featuring a temperature control knob for setting water temperature between 95°F-167°F and an LED indicator to display the heating status.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your water heater. Always disconnect power before maintenance.

6.1 Draining the Tank

Periodically drain the tank to remove sediment buildup. This should be done at least once a year, or more frequently in areas with hard water.

1. Turn off the power supply to the water heater.
2. Close the cold water supply valve to the water heater.
3. Connect a hose to the drain valve at the bottom of the tank and route it to a suitable drain.
4. Open the drain valve and open a hot water faucet in your home to allow air into the tank, facilitating drainage.

5. Once drained, close the drain valve and hot water faucet, then refill the tank as described in the installation section before restoring power.

6.2 T&P Valve Inspection

Test the T&P relief valve annually by lifting the lever. Water should discharge from the drain pipe. If no water discharges, or if the valve does not reseal properly, replace it immediately.

6.3 Anode Rod Inspection

The anode rod protects the tank from corrosion. Inspect and replace the anode rod every 3-5 years, or more often if water conditions are aggressive.

7. TROUBLESHOOTING

Before calling for service, review the following common issues and solutions:

Problem	Possible Cause	Solution
No hot water	No power; thermostat set too low; heating element failure	Check circuit breaker; adjust thermostat; contact qualified technician
Insufficient hot water	Thermostat set too low; excessive hot water usage; sediment buildup	Increase temperature setting; reduce usage; drain tank
Water too hot	Thermostat set too high	Lower temperature setting
Leaking water	Loose connections; T&P valve discharge; tank leak	Tighten connections; check T&P valve; contact qualified technician for tank leaks
Unusual noises	Sediment buildup in tank	Drain and flush the tank

8. SPECIFICATIONS

Specification	Value
Brand	VEVOR
Model Number	FJI-POR-50S2
Capacity	12 gallons
Wattage	1600 watts
Voltage/Frequency	120V~60Hz
Maximum Temperature	167 Degrees Fahrenheit (75°C)
Minimum Operating Water Pressure	0.02 MPa
Waterproof Rating	IPX4

Specification	Value
Cold Water Inlet Size	3/4 in NPT
Hot Water Outlet Size	3/4 in NPT
Main Material	Steel
Net Weight	40.1 lbs / 18.2 kg
Item Dimensions (Dia x H)	16.1 in x 23.6 in / $\Phi 410$ x 600 mm



Item Model Number: **FJI-POR-50S2**

Power: **1600W**

Capacity: **12 gal**

Display/Control Method: **LED Indicator/Knob**

Cold Water Inlet Size: **3/4 in NPT**

Color: **Gray**

Net Weight: **40.1lbs/18.2 kg**

Inlet & Outlet Direction: **Side Water Connections**

Item Dimensions (Dia x H): **$\Phi 16.1$ x 23.6 in/ $\Phi 410$ x 600 mm**

Accessories: **1 x T & P Relief Valve ; 1 x Security Valve ; 1 x Drain Hose ; 1 x Sealing Tape**

1 x Hose Clamp

Voltage/Frequency: **120V~/60 Hz**

Minimum Operating Water Pressure: **0.02 MPa**

Maximum Temperature: **167°F**

Waterproof Rating: **IPX4**

Hot Water Outlet Size: **3/4 in NPT**

Main Material: **Steel**

This image provides a detailed technical drawing of the water heater, outlining its dimensions and key specifications such as power, capacity, voltage, and inlet/outlet sizes.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please contact VEVOR customer service. Keep your purchase receipt and model number (FJI-POR-50S2) readily available when contacting support.

You can typically find contact information on the VEVOR official website or through your retailer.