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KENUOS WTank25I

KENUOS 2.5 Gallon Mini Tank Water Heater User Manual

Model: WTank25I

1. Introduction

This manual provides essential instructions for the safe installation, operation, and maintenance of your KENUOS 2.5 Gallon Mini Tank Water Heater, Model WTank25I. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Important Safety Information

Failure to follow these safety instructions could result in property damage, serious injury, or death. This appliance must be installed by a qualified professional in accordance with all local codes and regulations.

- **Electrical Safety:** Ensure the unit is properly grounded. The unit operates on 120V AC and requires a 1500W circuit. Do not use extension cords. The included power cord is UL certificated.
- **Water Pressure:** The maximum operating pressure is 116 PSI. A Temperature & Pressure (T&P) Relief Valve is included and must be installed to prevent excessive pressure buildup.
- **Overheat Protection:** The water heater is equipped with overheat safeguards. Do not tamper with these safety features.
- **Dry-Fire Protection:** Ensure the tank is completely filled with water before powering on the unit to prevent damage from dry-firing.
- **Installation Location:** Install in a location protected from freezing temperatures. The unit is IPX4 waterproof, but should not be submerged or exposed to direct water spray.
- **Mounting:** The mounting wall should be a load-bearing wall. If not, reinforce the wall or use load-bearing hangers or brackets.
- **Clearance:** Reserve at least 5 inches of space around the unit for proper ventilation and maintenance access.

3. Package Contents

Verify that all items are present before beginning installation:

- 2.5 Gallon Water Heater Unit
- T&P Valve x1

- 3-way Tee Valve x1
- Female to Female Water Hose x2
- Mounting Kit



Figure 3.1: Water Heater Unit and Included Components

4. Product Specifications

Feature	Specification
Brand	KENUOS
Model Number	WTank25I
Capacity	2.5 Gallons
Dimensions (W x H)	11.4"W x 11.4"H (Depth: 11 inches)

Feature	Specification
Weight	8 pounds
Voltage	120 Volts (AC)
Wattage	1500 watts
Maximum Flow Rate	0.45 Gallons Per Minute
Temperature Range	86°F to 149°F (Adjustable)
Thermal Efficiency	95%
Maximum Operating Pressure	116 PSI
Mounting Type	Wall/Floor Mounted
Special Features	Easy to Install, High Water Pressure Protection, Overheat Protection, Pressure Release Valve, Waterproof (IPX4)



Figure 4.1: Technical Features Overview

5. Installation Guide

5.1 Pre-Installation Checklist

- Ensure all package contents are present and undamaged.
- Confirm the installation location is suitable (load-bearing wall, protected from freezing, adequate clearance).
- Verify electrical supply matches unit requirements (120V, 1500W).
- Turn off the main water supply and electrical power to the installation area.

5.2 Mounting the Unit

The water heater supports both wall and floor mounting. Choose a location that allows for easy access for operation and maintenance.

1. Using the provided mounting kit, secure the unit to a load-bearing surface.

2. Ensure the unit is level and stable.



Figure 5.1: Flexible Mounting Options

5.3 Plumbing Connections

The unit features 1/2" NPT fittings for water connections. It is crucial to install the T&P Valve and 3-way diverter valve correctly.

1. Connect the cold water inlet (blue) to your cold water supply using the provided hoses and 3-way Tee Valve.
2. Connect the hot water outlet (red) to your hot water faucet.
3. Install the T&P Valve into the designated port on the unit. Ensure it is properly sealed and oriented.
4. Use appropriate plumbing sealant (e.g., Teflon tape) on all threaded connections to prevent leaks.
5. Once all connections are made, slowly open the cold water supply valve to fill the tank. Open a hot water faucet to allow air to escape until a steady stream of water flows.
6. Inspect all connections for leaks.



Figure 5.2: Plumbing Connections Diagram



Figure 5.3: Correct Installation Method

5.4 Electrical Connection

After plumbing is complete and the tank is full of water, connect the power cord to a grounded 120V AC outlet. The unit is equipped with a UL certificated plug for safety.

Important: Do not power on the unit until the tank is completely filled with water to prevent damage.

6. Operation

6.1 Initial Startup

Once the unit is installed and filled with water, plug it into the power outlet. The unit will begin heating the water.

6.2 Temperature Adjustment

The water heater features a knob for temperature control, allowing adjustment from 86°F to 149°F. Rotate the knob to select your desired water temperature. The unit will heat water to the set temperature within 5-8 minutes.



Figure 6.1: Temperature Control Knob



Figure 6.2: Temperature Range and Applications

6.3 Indicator Lights

- **Heating Indicator:** Illuminates when the unit is actively heating water.
- **Insulation Indicator:** Illuminates when the unit has reached the set temperature and is maintaining it in insulation mode.

The smart temperature control chip automatically enters insulation mode once the set temperature is achieved, reducing energy consumption.

7. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your water heater.

- **Annual Inspection:** It is recommended to have a qualified plumber inspect the unit annually, including the T&P valve, for proper operation.

- **Draining the Tank:** If the unit will be unused for an extended period or if there is a risk of freezing, drain the tank completely. Turn off power, close the cold water supply, and open a hot water faucet to relieve pressure. Then, open the drain valve (if present) or disconnect a water line to allow the tank to empty.
- **Cleaning:** Periodically wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.

8. Troubleshooting

Before contacting customer support, review the following common issues and solutions:

Problem	Possible Cause	Solution
No hot water	No power; Thermostat set too low; Tank not filled with water; Heating element failure.	Check power supply and circuit breaker; Adjust thermostat to a higher setting; Ensure tank is full before powering on; Contact customer support if heating element is suspected.
Water not hot enough	Thermostat set too low; High hot water demand; Cold water mixing.	Increase thermostat setting; Allow time for recovery between uses; Check for proper plumbing to prevent cold water mixing.
Water leaks	Loose plumbing connections; Faulty T&P valve; Tank damage.	Tighten connections (do not overtighten); Inspect T&P valve and replace if necessary; If tank damage is suspected, turn off water and power immediately and contact customer support.
Unit making unusual noises	Sediment buildup in tank; Air in water lines.	Drain and flush the tank to remove sediment; Purge air from water lines by opening faucets.

9. Warranty and Customer Support

KENUOS is committed to providing quality products and customer satisfaction. If you encounter any issues or have questions regarding your 2.5 Gallon Mini Tank Water Heater, please contact our customer support team. We aim to provide satisfactory after-sales service.
For support, please refer to the contact information provided with your purchase or visit the official KENUOS website.

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