

## KENUOS SY-15

# KENUOS 4 Gallon Under Sink Instant Hot Water Heater SY-15 Instruction Manual

Model: SY-15

## 1. INTRODUCTION

---

Thank you for choosing the KENUOS 4 Gallon Under Sink Instant Hot Water Heater, Model SY-15. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your new water heater. Please read all instructions carefully before installation and use, and retain this manual for future reference.



Image 1.1: KENUOS 4 Gallon Under Sink Instant Hot Water Heater, Model SY-15. This image displays the compact, white and silver unit with its control knob and water connections.

## 2. SAFETY INFORMATION

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

- **Electrical Safety:** Ensure the water heater is properly grounded. Do not operate if the power cord or plug is damaged. Disconnect power before performing any maintenance or service.
- **Water Filling:** **ALWAYS fill the water heater with water before turning on the power for the first time.** Operating the unit dry will activate the internal overheat protection, causing it to stop working. If this occurs, disconnect power and wait 10 minutes for the tank to cool before refilling with water.
- **Pressure Relief Valve (T&P Valve):** The included Temperature and Pressure (T&P) relief valve is a critical safety component. It must be installed and properly tightened. Do not use waterproof tape on the T&P valve threads, as this may increase the risk of water leakage.
- **Water Pressure:** If your local water pressure exceeds 0.75 MPa (approximately 108 PSI), it may cause water leakage, which is a normal function of the T&P valve. In such cases, a pressure reducing valve must be installed above the cold water inlet. Alternatively, replace the existing T&P valve with a 0.9

MPa rated T&P valve.

- **Hot Water Hazard:** Hot water can cause severe burns. Exercise caution when using hot water from the unit.
- **Certifications:** This water heater has passed UL, CE, and DOE certifications, ensuring compliance with safety and efficiency standards.

### 3. PRODUCT OVERVIEW

#### 3.1 Key Features

- **Rapid Hot Water:** 1500W heating power and an upgraded L-shaped 316 stainless steel heating tube provide hot water in as little as 8 minutes with up to 98% thermal efficiency.
- **Durable Construction:** Features an enamel-coated glass-lined inner tank, seamlessly welded high-strength body, and strong corrosion resistance for extended service life and reduced heat loss.
- **Comprehensive Safety:** Equipped with Dry Combustion Protection, Overheat Protection, and a Temperature and Pressure (T&P) Relief Valve.
- **User-Friendly Design:** Includes a 3-way diverter valve for multi-point water supply and two 24-inch 3/4" ID to 1/2" ID adapter hoses for pipe compatibility.
- **Versatile Capacity:** 4-gallon capacity suitable for various scenarios such as kitchen sinks, bathroom handwashing, and RVs.

#### 3.2 Included Components

- 4 Gallon Under Sink Water Heater (x1)
- Temperature and Pressure Release Valve (x1)
- 3-way Diverter Valve (x1)
- 24" Length 3/4" ID to 1/2" ID Adapter Hose (x2)
- Mounting Bracket Kit (x1)

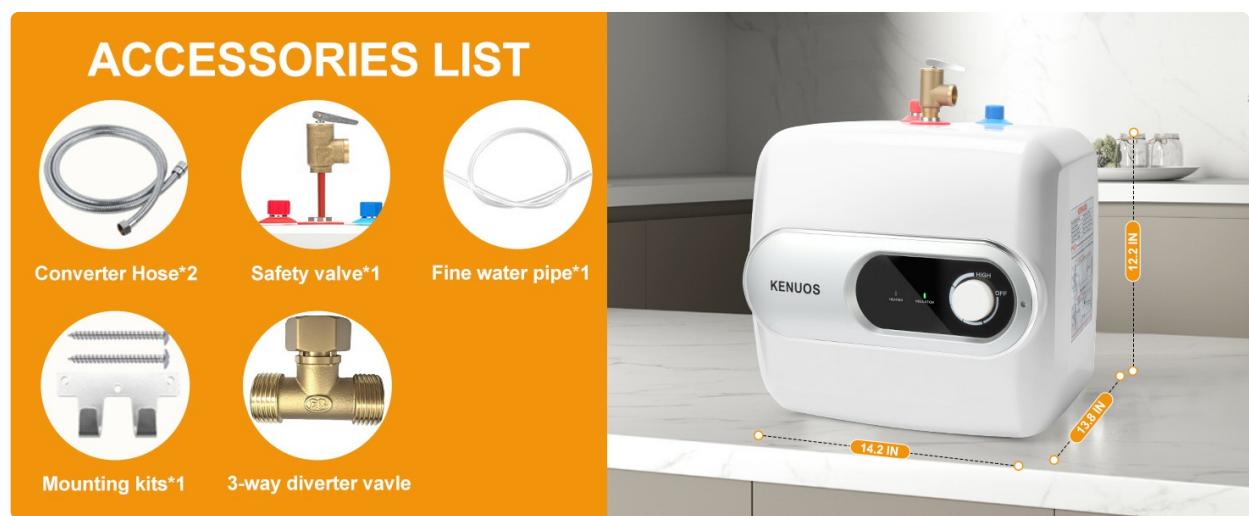


Image 3.1: This image displays the water heater alongside its included accessories: two converter hoses, a safety valve, a fine water pipe, mounting kits, and a 3-way diverter valve.

#### 3.3 Specifications

# 4 GALLON MINI TANK INSTANT WATER HEATER

14.2x13.8x12.2inch



## TECHNICAL FEATURES OF THE PRODUCT

|                         |              |                                     |                     |
|-------------------------|--------------|-------------------------------------|---------------------|
| <b>Capacity</b>         | 4 gallon     | <b>Cord Length</b>                  | 2.9 ft              |
| <b>Rated Power</b>      | 1500W        | <b>Water Fitting</b>                | 1/2 NPT             |
| <b>Rated Frequency</b>  | 50 Hz/60 Hz  | <b>Temperature Range</b>            | 86-150°F            |
| <b>Rated Current</b>    | 12.5 Amps    | <b>Item Dimensions</b>              | 14.2x13.8x12.2 inch |
| <b>Rated Voltage</b>    | 110V-120V AC | <b>Suggested Installation Space</b> | 19.2x18.8x17.2inch  |
| <b>Maximum Pressure</b> | 108PSI       |                                     |                     |

Image 3.2: A visual representation of the technical specifications of the KENUOS 4 Gallon Mini Tank Instant Water Heater.

| Specification              | Value        |
|----------------------------|--------------|
| Brand                      | KENUOS       |
| Model Number               | SY-15        |
| Capacity                   | 4 Gallon     |
| Rated Power                | 1500W        |
| Rated Voltage              | 110V-120V AC |
| Rated Frequency            | 50 Hz/60 Hz  |
| Rated Current              | 12.5 Amps    |
| Temperature Range          | 86-150°F     |
| Maximum Operating Pressure | 116 PSI      |

| Specification                  | Value                 |
|--------------------------------|-----------------------|
| Thermal Efficiency             | 98%                   |
| Product Dimensions (W x H x D) | 14.2" x 13.8" x 12.2" |
| Mounting Type                  | Wall or Floor-Mounted |
| Water Fitting                  | 1/2" NPT              |
| Cord Length                    | 2.9 ft                |

## 4. SETUP & INSTALLATION

The KENUOS 4 Gallon Water Heater can be installed either wall-mounted or floor-mounted, typically under a sink or counter. Ensure you have adequate space and access to water and electrical connections.



Image 4.1: This image illustrates the two primary installation methods: wall-mounted above the counter and floor-mounted below the sink.

## 4.1 Pre-Installation Checklist

- Verify that the electrical supply matches the unit's requirements (110V-120V AC, 1500W).
- Ensure the installation area is protected from freezing temperatures.
- Confirm that the water pressure is within the recommended range (below 0.75 MPa / 108 PSI). If higher, prepare a pressure reducing valve.
- Gather necessary tools (e.g., wrench, screwdriver, measuring tape).

## 4.2 Installation Steps

1. **Mounting:** Securely mount the water heater using the provided mounting bracket kit. Ensure the unit is level and stable.
2. **Connect T&P Valve:** Install the Temperature and Pressure (T&P) relief valve into the designated port on the top of the unit. Hand-tighten, then use a wrench to ensure a secure, leak-free connection. Do not use thread seal tape on the T&P valve.
3. **Water Connections:** Connect the cold water inlet (blue cap) and hot water outlet (red cap) to your plumbing using the provided adapter hoses and 3-way diverter valve as needed. Ensure all connections are tight to prevent leaks.
4. **Fill with Water:** Before plugging in the unit, open a hot water faucet connected to the heater and allow water to flow until all air is purged from the tank and a steady stream of water comes out. This ensures the tank is completely full.
5. **Electrical Connection:** Once the tank is full of water, plug the unit into a grounded electrical outlet.

Your browser does not support the video tag.

Video 4.2: This video demonstrates the installation process for the KENUOS 4 Gallon Water Heater, including connecting the T&P valve and water lines.

## 5. OPERATING INSTRUCTIONS

---

Operating your KENUOS water heater is straightforward:

1. **Power On:** After ensuring the tank is filled with water and the unit is plugged in, the green 'INSULATION' indicator light will illuminate, indicating the unit is powered and maintaining temperature.
2. **Adjust Temperature:** Use the control knob on the front of the unit to select your desired water temperature. Turn the knob from 'OFF' towards 'HIGH' to increase the temperature. The temperature range is 86-150°F.
3. **Heating Indicator:** When the unit is actively heating water, the red 'HEATING' indicator light will illuminate. It will turn off once the set temperature is reached.
4. **Power Off:** To turn off the unit, rotate the control knob to the 'OFF' position.



Image 5.1: This image highlights the adjustable temperature knob on the water heater, allowing users to select a temperature between 86°F and 149°F.

## 6. MAINTENANCE

---

Regular maintenance ensures optimal performance and longevity of your water heater:

- **T&P Valve Check:** Periodically check the T&P relief valve for proper operation. Refer to local plumbing codes for specific testing requirements.
- **Draining for Cold Regions:** If the water heater will not be used for an extended period in cold regions, it is recommended to drain the tank to prevent freezing and potential damage.
- **Cleaning:** Clean the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.

## 7. TROUBLESHOOTING

---

If you encounter issues with your water heater, refer to the following common problems and solutions:

- **No Hot Water / Unit Not Heating:**
  - Ensure the unit is plugged in and the power outlet is functional.
  - Verify the temperature knob is set to a heating position (not 'OFF').
  - Check if the tank was filled with water before initial power-on. If not, the overheat protection may have activated. Disconnect power, wait 10 minutes for cooling, then refill the tank and reconnect power.
  - Check your circuit breaker for tripped circuits.
- **Water Leakage:**
  - Inspect all water connections (inlet, outlet, T&P valve) for tightness. Tighten any loose connections.
  - If leakage is from the T&P valve, your water pressure might be too high. Consider installing a pressure reducing valve or replacing the T&P valve with a higher-rated one (0.9 MPa).
  - Ensure the T&P valve was installed correctly without thread seal tape.
- **Insufficient Hot Water:**
  - Confirm the temperature setting is appropriate for your needs.

- Allow sufficient time for the 4-gallon tank to reheat after heavy use.

For issues not covered here, or if problems persist, please contact KENUOS customer support.

## **8. WARRANTY & SUPPORT**

---

For warranty information, product support, or to report any issues, please refer to the contact information provided with your purchase or visit the official KENUOS website. Please have your model number (SY-15) and purchase date available when contacting support.