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› KENUOS 4 Gallon Under Sink Mini Tank Water Heater SY-15 Instruction Manual

KENUOS SY-15

KENUOS 4 Gallon Under Sink Mini Tank Water Heater

MODEL: SY-15 - INSTRUCTION MANUAL

1. Introduction

This instruction manual provides essential information for the safe and efficient installation, operation, and maintenance of your KENUOS 4 Gallon Under Sink Mini Tank Water Heater, Model SY-15. Please read this manual thoroughly before installation and retain it for future reference. Proper installation and adherence to these instructions will ensure optimal performance and longevity of your water heater.



Figure 1: KENUOS 4 Gallon Under Sink Mini Tank Water Heater, Model SY-15.

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. Do not operate with a damaged power cord or plug. Disconnect power before performing any service or maintenance.
- **Water Pressure:** If your water pressure exceeds 0.75 MPa (approximately 108 PSI), a pressure reducing valve must be installed on the cold water inlet line to prevent potential leakage and damage.
- **Filling Before Power:** Always fill the water heater with water completely before turning on the power for the first time. Operating the unit dry will activate the internal overheat protection and prevent it from working. If this occurs, disconnect power and wait 10 minutes for the tank to cool before refilling.
- **Pressure Relief Valve:** The included Temperature and Pressure (T&P) relief valve is a critical safety component. It must be installed and tightened correctly. Do not use waterproof tape on the T&P valve threads, as this may

interfere with its proper function and increase the risk of leakage.

- **Installation Location:** Install the unit in a location where potential water leakage will not cause damage to the surrounding area.
- **Accessibility:** Ensure at least 5 inches of space is reserved around the unit for installation and future maintenance.



Figure 2: Overview of safety features and protections.

3. Package Contents

Verify that all components are present and undamaged upon unpacking the unit:

- 4 Gallon Under Sink Water Heater x 1
- Temperature and Pressure Release Valve x 1
- 3-way Diverter Valve x 1
- 24" Length 3/4" ID to 1/2" ID Adapter Hose x 2

- Mounting Bracket Kit x 1
- Fine water pipe x 1 (Note: This may refer to a drain hose or similar accessory)



Figure 3: Water heater dimensions and included components.

4. Product Specifications

Feature	Specification
Brand	KENUOS
Model Number	SY-15
Capacity	4 Gallons
Power	1500 Watts

Voltage	120 Volts (AC)
Current	12.5 Amps
Frequency	60 Hz
Product Dimensions (W x H)	13.5" x 13.8"
Item Weight	10 pounds
Maximum Flow Rate	0.45 Gallons Per Minute
Temperature Range	86°F - 149°F (Adjustable)
Maximum Operating Pressure	108 PSI
Efficiency	95%
Special Features	Dry Combustion Protection, Overheat Protection, Pressure Release Valve, Waterproof
Installation Method	Wall-Mounted

5. Installation

Proper installation is crucial for the safe and efficient operation of your water heater. If you are unsure about any step, consult a qualified plumber or electrician.

5.1 Installation Location

- The unit is designed for under-sink, under-counter, or wall-mounted installation.
- Ensure the mounting surface is structurally sound and capable of supporting the unit's weight when full (approximately 33 lbs for 4 gallons of water + unit weight).
- Avoid locations exposed to freezing temperatures.
- Maintain at least 5 inches of clearance around the unit for ventilation and service access.

UNDER SINK TANK WATER HEATER

Supports wall-mounted and floor-mounted, suitable for more occasions



Figure 4: Recommended installation locations.

5.2 Mounting the Unit

1. Using the provided mounting bracket kit, securely attach the brackets to the wall or cabinet according to the unit's dimensions.
2. Carefully lift and hang the water heater onto the installed brackets, ensuring it is stable and level.

5.3 Water Connections

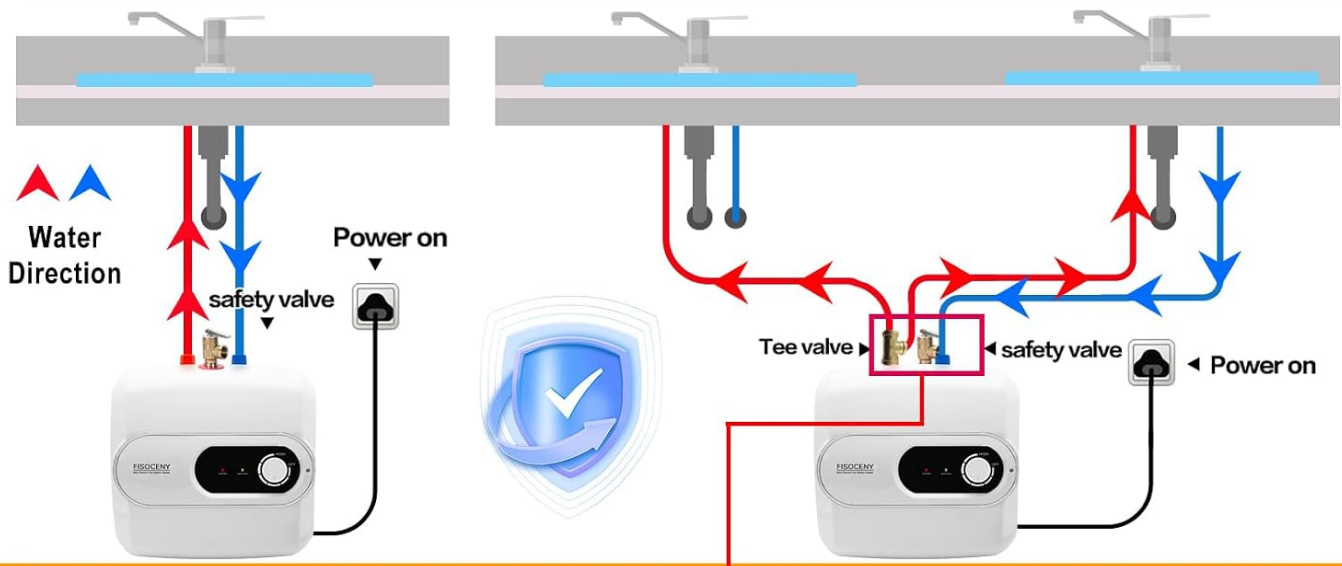
Refer to the diagram below for proper water line connections. All nuts must be tightened to the maximum extent to prevent water leakage.

- **Cold Water Inlet:** Connect the cold water supply line to the blue-capped inlet on the top of the unit.
- **Hot Water Outlet:** Connect the hot water outlet line to the red-capped outlet on the top of the unit.
- **T&P Valve Installation:** Install the Temperature and Pressure (T&P) relief valve into the designated port. Ensure it is tightened securely. Do not use waterproof tape on the T&P valve threads. Connect a discharge pipe from the T&P valve to an open drain, ensuring it is sloped for proper drainage and protected from freezing.
- **Diverter Valve:** The included 3-way diverter valve can be used to split the water flow for multi-point supply if

needed.

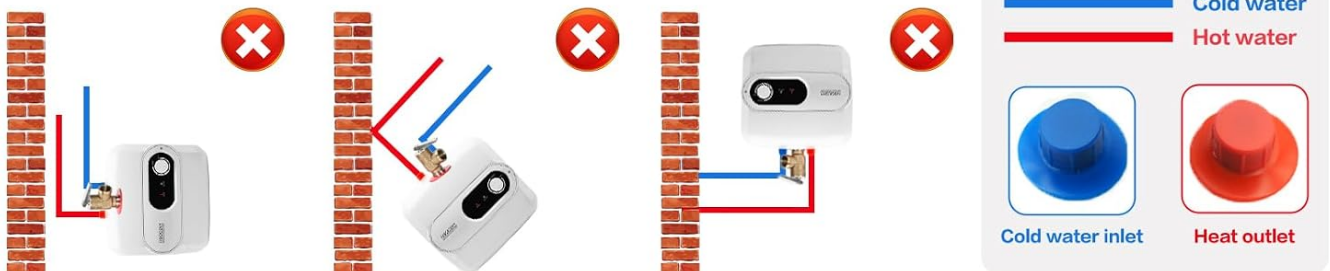
- **Adapter Hoses:** Use the provided 24-inch 3/4" ID to 1/2" ID adapter hoses for pipe compatibility.

Installation Method



⚠ All nuts must be tightened to the maximum extent, otherwise it may cause water leakage.

Wrong installation mode



1. Fill the water before the first power on use, otherwise it will cause a high temperature protection failure!
2. The mounting wall should be a load bearing wall. If not, please reinforce the wall or install load-bearing hangers or brackets, otherwise it may cause the machine to collapse and malfunction.
3. At least 5inch of space should be reserved for installation to facilitate construction and subsequent maintenance.
4. It is prohibited to use ordinary patch cords to connect the water heater to avoid safety accidents caused by overheating of the circuit.
5. It is prohibited to invert, tilt or lay the machine flat to avoid damage.

Figure 5: Water connection diagram and installation precautions.

5.4 Electrical Connection

- Ensure the power outlet is a standard 120V AC, 15 Amp circuit.
- Plug the UL-certified power cord into a grounded electrical outlet.
- Do not use extension cords or adapters.



UL Certified Plug

Ensure electrical safety when using the water heater

Figure 6: UL Certificated Plug for safe electrical connection.

6. Operation

6.1 Initial Startup

1. After completing all water connections, open a hot water faucet in your sink or fixture to allow air to escape from the tank.
2. Once water flows steadily from the hot water faucet, close the faucet. This indicates the tank is full.
3. Plug in the water heater. The green 'INSULATION' light will illuminate, indicating the unit is powered on and maintaining temperature.

6.2 Temperature Adjustment

The water heater features a simple mechanical knob for temperature control, ranging from 86°F to 149°F.

- Turn the knob clockwise to increase the temperature setting towards 'HIGH'.
- Turn the knob counter-clockwise to decrease the temperature setting towards 'OFF'.
- When the unit is actively heating water, the red 'HEATING' light will illuminate. Once the set temperature is reached, the red light will turn off, and the green 'INSULATION' light will remain on.
- For optimal energy efficiency and safety, avoid setting the temperature higher than necessary.

86-149 °F TEMPERATURE RANGE

Easy to be suitable for various occasions



Simple Mechanical Knob
make it easy to control



Washing Dishes



Shampoo



Cleaning Vegetables



Wahsing Face

Figure 7: Temperature control knob and typical applications.

7. Maintenance

Regular maintenance helps ensure the longevity and efficient operation of your water heater.

- **Cleaning:** Periodically wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Anode Rod Inspection:** The internal anode magnesium rod helps reduce corrosion. It is recommended to have a qualified professional inspect and replace the anode rod every 1-3 years, depending on water quality.
- **Drainage:** If the unit will be unused for an extended period or if there is a risk of freezing, drain the tank completely. Disconnect power, close the cold water supply, open a hot water faucet, and open the drain valve on the unit.

FEARLESS OF SUDDEN COLD WATER AND SAFETY HAZARDS



ANODE MAGNESIUM ROD

Reduce the corrosion of scale on heating tube and inner tank, extending service life.



ENAMEL COATING

stronger adhesion and hardness, better protection for water tank.



HIGH-STRENGTH STAINLESS STEEL

Seamless welding, integrated molding, anti pressure and anti explosion.



CPC-FREE FOAM

Non-toxic, sealed, waterproof, fire-resistant, durable insulation.



HIGH TEMPERATURE SEAMLESS WELDING

Corrosion resistant and scale resistant, more heat-resistant.



Figure 8: Internal components contributing to durability and safety.

8. Troubleshooting

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

• No Hot Water / Unit Not Heating:

- Check if the unit is plugged in and the power outlet is functional.
- Ensure the temperature knob is not set to 'OFF'.
- Verify that the tank was filled with water before initial power-on. If operated dry, disconnect power for 10 minutes, then refill and restart.
- Check your circuit breaker for tripped circuits.

• Water Leakage:

- Ensure all water connections (inlet, outlet, T&P valve) are tightened securely.

- Confirm that the T&P valve is installed correctly without excessive tape on threads.
- If water pressure exceeds 0.75 MPa (108 PSI), install a pressure reducing valve on the cold water inlet.
- A small amount of dripping from the T&P valve during heating cycles is normal due to thermal expansion. If continuous or excessive, check water pressure or consult a professional.

- **Insufficient Hot Water:**

- Increase the temperature setting using the control knob.
- Allow sufficient recovery time between uses, especially after drawing a large volume of hot water.

9. Warranty and Support

For warranty information, technical assistance, or to report any issues with your KENUOS water heater, please contact KENUOS customer support. Refer to your purchase documentation or the KENUOS official website for contact details. When contacting support, please have your model number (SY-15) and purchase date available.

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