

KENUOS SY-8

KENUOS Mini Tank Water Heater User Manual

Model: SY-8 | Capacity: 2.5 Gallons

1. IMPORTANT SAFETY INFORMATION

Read all instructions carefully before installation and operation. Failure to follow these instructions may result in property damage, personal injury, or death. Keep this manual for future reference.

- **Electrical Safety:** Ensure the unit is properly grounded. Do not operate if the power cord is damaged. Disconnect power before servicing.
- **Water Pressure:** Do not exceed the maximum operating pressure of 118 PSI. A pressure reducing valve may be required if incoming water pressure is too high.
- **Temperature & Pressure (T&P) Relief Valve:** Install the supplied T&P relief valve. Do not block or tamper with it. Regularly check the T&P valve for proper operation.
- **Freezing:** Protect the unit from freezing temperatures. Drain the water heater if it will be exposed to freezing conditions.
- **Water Leaks:** Inspect all connections for leaks after installation and during regular maintenance. Address any leaks immediately.
- **Qualified Personnel:** Installation and servicing should be performed by qualified personnel in accordance with local codes and this manual.

2. PRODUCT OVERVIEW

The KENUOS 2.5 Gallon Mini Tank Water Heater provides rapid hot water for various applications. Its compact design allows for flexible installation.

Key Features:

- **Rapid Heating:** 1500W heating power with an L-shaped 316 stainless steel heating tube for quick hot water delivery.
- **Safety Certifications:** UL, CE, and DOE certified. Includes IPX4 waterproof rating, flame retardant materials, overheat protection, pressure release, and burn dry protection.
- **Smart Design:** Visible temperature display with a mechanical knob for temperature adjustment (86°F to 150°F).

Features an automatic insulation mode.

- **Durable Construction:** Seamlessly welded high-strength body, enamel coating, and fluorine-free polyurethane insulation.
- **Versatile Installation:** Compact square shape suitable for wall-mounted or floor installation.

Internal Components:

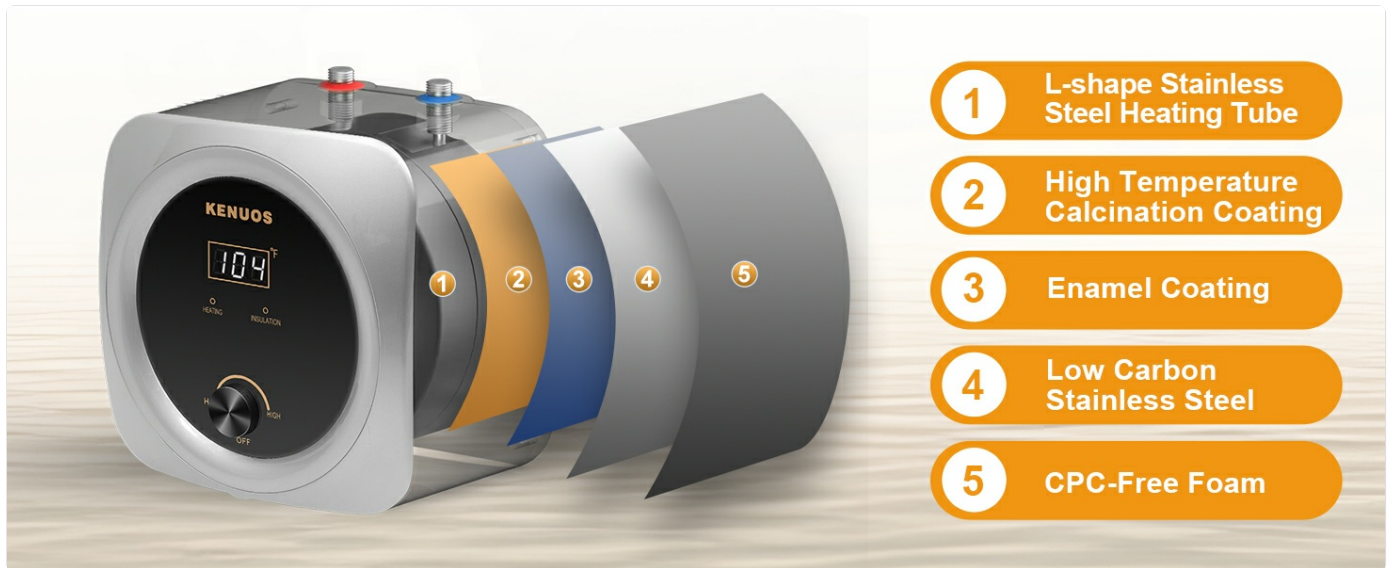


Image Description: This diagram illustrates the internal structure of the water heater.

1. L-shape Stainless Steel Heating Tube: Provides efficient heating.
2. High Temperature Calcination Coating: Enhances corrosion resistance.
3. Enamel Liner: Strong adhesion and protection for the water tank.
4. Low Carbon Stainless Steel: Seamless welding for preventing water leakage.
5. CPC-Free Foam: Non-toxic, full package, waterproof, flame-resistant, durable insulation.



Image Description: A cutaway view showing the 1500W Molybdenum Alloy 316 Stainless Steel heating rod submerged in water, illustrating its fast heating capability.

TECHNICAL FEATURES OF THE PRODUCT



Easy to
Install



IPX4
Waterproof



Flame
Retardant



Overheat
Protection



Pressure
Release



Burn Dry
Protection



Space-
Saving



UL
Certificated



Image Description: This image displays eight major technical features of the water heater, including easy installation, IPX4 waterproof rating, flame retardant properties, overheat protection, pressure release, burn dry protection, space-saving design, and UL certification.

FAST HEATING AND RAPID RECOVERY

No waiting for long time



Clean Dishes



Wash Vegetable



Wash Face



Salon



Brush Teeth

Image Description: This image illustrates common uses for the water heater, such as washing dishes, washing vegetables, washing face, salon use, and brushing teeth, emphasizing its fast heating and rapid recovery for everyday needs.

3. SPECIFICATIONS

Feature	Specification
Brand	KENUOS
Model Number	SY-8
Capacity	2.5 Gallons

Feature	Specification
Rated Power	1500W
Rated Voltage	120V AC
Rated Current	12.5 Amps
Rated Frequency	50 Hz/60 Hz
Temperature Range	86°F - 150°F (30°C - 65°C)
Maximum Pressure	118 PSI
Flow Rate	0.45 GPM
Product Dimensions (W x H x D)	11.4" x 11.4" x 13.5" (approx. 28.8cm x 28.8cm x 34.3cm)
Item Weight	5 pounds
Material Type	ABS
Mount Type	Wall/Floor Mounted
Water Fitting	1/2 NPT
Cord Length	2.9 ft

2.5 GALLON MINI TANK INSTANT WATER HEATER

11.4"*11.4"*10.4"(28.8*28.8*26 cm)



TECHNICAL FEATURES OF THE PRODUCT

Capacity	2.5 Gallons	Cord Length	2.9 ft
Rated Power	1500W	Water Fitting	1/2 NPT
Rated Frequency	50 Hz/60 Hz	Temperature Range	86-150°F
Rated Current	12.5 Amps	Item Dimensions	11.4"*11.4"*10.4"
Rated Voltage	110V-120V AC	Suggested Installation Space	16*16*15 inch
Maximum Pressure	108PSI		

Image Description: A visual representation of the water heater's technical specifications, including capacity, power, dimensions, and temperature range.

ACCESSORIES LIST



Converter Hose*2



Safety valve*1



Fine water pipe*1



Mounting kits*1



3-way diverter valve



Image Description: This image displays the included accessories: converter hoses, safety valve, fine water pipe, mounting kits, and a 3-way diverter valve, alongside the water heater's dimensions.

4. INSTALLATION

This section provides instructions for installing your KENUOS Mini Tank Water Heater. Ensure all safety precautions are followed.

4.1 Included Components:

- 2.5 Gallon Water Heater Unit
- 3-way Diverter Valve (x1)
- Female Water Pipe to Female Water Pipe Adapter Hoses (x2)
- Temperature and Pressure (T&P) Relief Valve (x1)
- Mounting Kits (screws and brackets)
- Teflon Tape
- User Manual (this document)

4.2 Mounting Options:

The water heater can be installed either wall-mounted or floor-mounted, depending on your space requirements.

UNDER SINK INSTANT HOT WATER HEATER

Compact design, suitable for various installation methods and occasions



WALL-MOUNTED



FLOOR-MOUNTED

Image Description: This image illustrates two common installation methods: wall-mounted, where the unit is secured to a wall, and floor-mounted, where the unit rests on the floor or inside a cabinet.



Kitchen



Bathroom



Laundry Room

Image Description: Visual examples of the compact water heater installed in various locations such as under a kitchen sink, in a bathroom, and in a laundry room, demonstrating its space-saving design.

4.3 Plumbing Connections:

1. **Install T&P Valve:** Apply Teflon tape to the threads of the T&P relief valve and install it into the designated port on the water heater. Ensure a tight, leak-free seal. *Note: Some users have reported difficulty achieving a seal with the T&P valve. Ensure sufficient Teflon tape is used and tighten firmly, but do not overtighten to avoid damage. Consider using plumber's paste in addition to tape if necessary.*
2. **Connect Cold Water Inlet:** Connect the cold water supply line to the water heater's cold water inlet (typically marked blue or with a 'C'). Use one of the provided adapter hoses if needed.
3. **Connect Hot Water Outlet:** Connect the hot water outlet (typically marked red or with an 'H') to your faucet's hot water supply line.
4. **Optional 3-way Diverter Valve:** If using the 3-way diverter valve for multi-point water supply, install it according to the diagram.
5. **Fill Tank:** Before connecting power, open a hot water faucet to allow air to escape and the tank to fill completely with water. Once water flows steadily from the faucet, close it.



Image Description: A detailed plumbing diagram illustrating how to connect the water heater to a sink, including the placement of converter hoses, safety valve, fine water pipe, mounting kits, and the 3-way diverter valve.

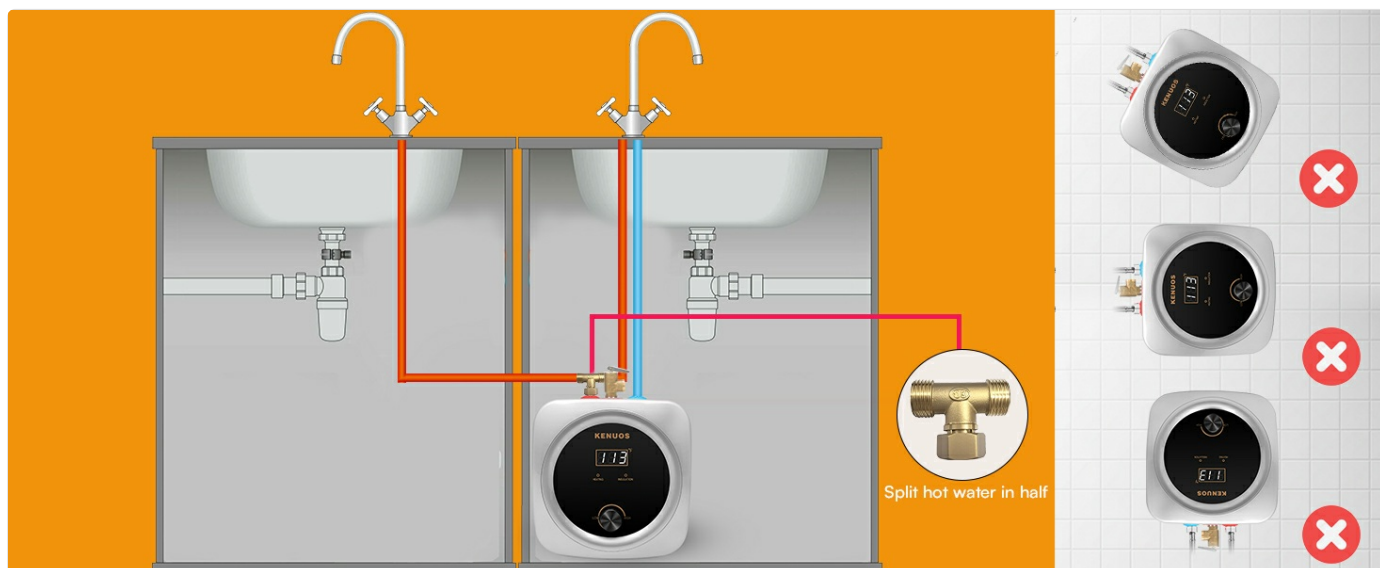


Image Description: This diagram shows the correct installation of the 3-way diverter valve for splitting hot water, along with examples of incorrect orientations to avoid.



Image Description: A close-up view of the safety temperature and pressure (T/P) valve, highlighting its importance for enhancing security during use. A note advises regular checks and draining in cold regions.

4.4 Electrical Connection:

Connect the water heater to a dedicated 120V AC, 15 Amp (minimum) grounded electrical outlet. Ensure the circuit can handle the 1500W load (12.5 Amps).

4.5 Installation Video:

Your browser does not support the video tag.

Video Description: This video provides a visual guide on how to install the KENUOS Under Sink Water Heater, demonstrating the steps for plumbing and electrical connections.

5. OPERATION

Operating your KENUOS Mini Tank Water Heater is straightforward.

5.1 Initial Startup:

1. Ensure the tank is completely filled with water (as per installation step 4.3.5).
2. Plug in the power cord or turn on the circuit breaker. The digital display will illuminate.
3. The unit will begin heating the water to the set temperature. The display shows the current water temperature.

5.2 Temperature Adjustment:

Use the mechanical knob on the front panel to adjust the desired water temperature. The temperature range is 86°F to 150°F (30°C to 65°C).



Image Description: This image highlights the adjustable knob on the water heater’s front panel, used to select the desired water temperature within the range of 86°F to 149°F.

5.3 Smart Insulation Mode:

Once the set temperature is reached, the built-in smart chip automatically switches the unit to insulation mode to maintain the water temperature efficiently.

6. MAINTENANCE

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

- **T&P Valve Check:** Annually, manually operate the T&P relief valve to ensure it is not obstructed and functions correctly. Follow the manufacturer’s instructions for the valve.
- **Draining the Tank:** If the unit will be out of use for an extended period or if there is a risk of freezing, drain the tank completely.
 - a. Disconnect power to the unit.
 - b. Turn off the cold water supply to the unit.
 - c. Open a hot water faucet to relieve pressure.
 - d. Connect a hose to the drain valve (if present, otherwise disconnect the cold water inlet hose) and direct it to a suitable drain.
 - e. Open the drain valve or disconnect the hose to allow water to drain.
- **Exterior Cleaning:** Clean the exterior of the unit with a damp cloth. Do not use abrasive cleaners or solvents.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your water heater.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No hot water	No power; Thermostat set too low; Heating element failure; Tank not filled.	Check power supply/breaker; Adjust thermostat; Contact support for element replacement; Ensure tank is filled before powering on.
Water not hot enough	Thermostat set too low; High hot water demand exceeding capacity; Incoming cold water temperature too low.	Increase thermostat setting; Allow more recovery time between uses; This unit is designed for point-of-use, not whole-house supply.
Water leaks	Loose plumbing connections; Faulty T&P valve; Tank leak.	Tighten connections (use Teflon tape/plumber's paste); Inspect T&P valve, replace if faulty; If tank leaks, discontinue use and contact support.
T&P valve dripping	Normal expansion during heating; Excessive water pressure; Faulty valve.	This can be normal. If excessive, check incoming water pressure and install a pressure reducing valve if needed. Inspect valve for debris or defect.
No water flow	Cold water supply off; Inlet/outlet clogged.	Check cold water supply valve; Inspect hoses and connections for blockages.

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the contact information provided at the point of purchase or on the KENUOS official website.

Manufacturer: KENUOS

Model: SY-8

Please have your model number and purchase date available when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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