

MIZUDO Etech 25

MIZUDO Electric Mini Tank Water Heater

MODEL: ETECH 25 (2.5 GALLON)

User Manual

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your MIZUDO 2.5 Gallon Electric Mini Tank Water Heater, Model Etech 25. Please read all instructions carefully before installation and use to ensure safe and efficient operation of the appliance.

Safety Information

Your MIZUDO Electric Mini Tank Water Heater is designed with safety in mind and is CSA Certified. Adherence to the following safety guidelines is crucial for preventing injury and damage:

- **Electrical Safety:** The unit operates on 120 Volts (AC) and 1440 watts. A dedicated 15 AMP circuit breaker is recommended to ensure complete electrical safety. The unit comes with a plug connection (power cord: 800mm).
- **Water Filling Precaution:** Before powering on, it is essential to fill the water heater with water and open a hot water faucet to purge all air from the tank. Power should only be turned on after a steady flow of water is observed from the faucet.
- **Temperature Control:** The water temperature is adjustable within a range of 55°F to 145°F.
- **Overheat Protection:** A high-temperature limiting device will automatically shut off the heat if the water reaches 167°F, providing protection against overheating.
- **Pressure Protection:** The included Temperature and Pressure (T&P) valve protects the water heater in case of excessive water pressure (maximum 150 PSI).
- **Additional Protections:** The unit features Dry Combustion Protection, Anti-Freezing Protection, Leakage Protection, IPX4 Waterproofing, and Anti-Scale Protection.
- **Installation:** Ensure the unit is installed in a discreet location, either wall or floor-mounted, according to local codes and this manual.

Multi-Protection for Peace of Mind



Image: Visual representation of the multi-protection features of the MIZUDO water heater, including overheat, over pressure, built-in anode rod, leakage, IPX4 waterproof, anti-scale, dry-burn protector, and durable design.

Package Contents

Verify that all components are present before beginning installation:

- MIZUDO Electric Mini Tank Water Heater (Model Etech 25)
- Drain Pipe (Length: 3 ft.)
- Mount Kits (for wall or floor mounting)
- Temperature and Pressure (T&P) Relief Valve
- Instruction Manual

Scope of Delivery

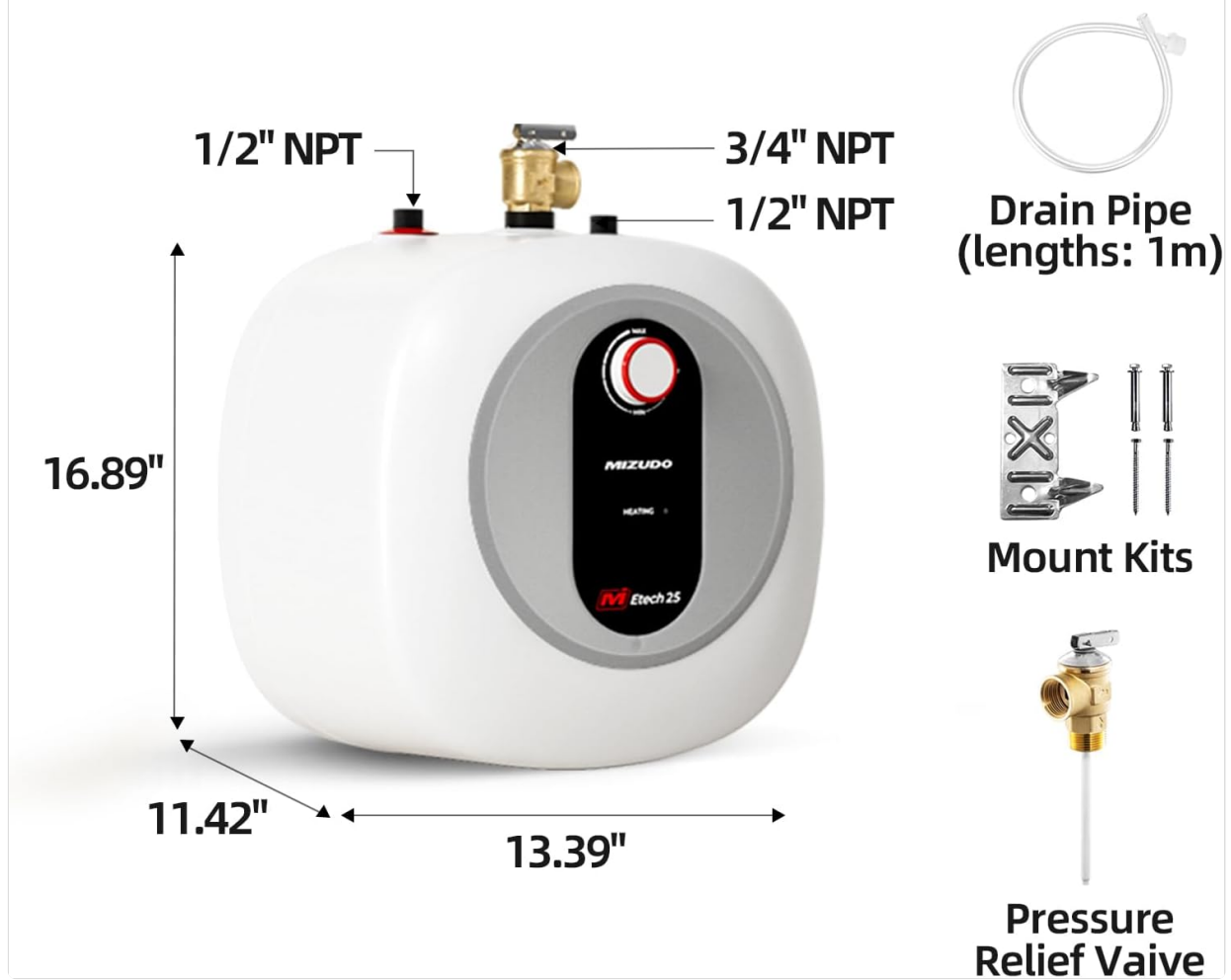


Image: Contents of the MIZUDO Electric Mini Tank Water Heater package, including the heater unit, drain pipe, mounting kit, and T&P valve.

Specifications

Brand	MIZUDO
Model Number	Etech 25
Capacity	2.5 Gallons
Power Source	Corded Electric
Voltage	120 Volts
Wattage / Heat Output	1440 Watts
Product Dimensions (W x H x D)	13.39"W x 16.9"H x 11.42"D
Item Weight	17 Pounds

Flow Rate	2.5 Gallons Per Minute
Maximum Temperature	167 Degrees Fahrenheit (Safety Shut-off)
Adjustable Temperature Range	55°F to 145°F
Maximum Pressure	150 Pound per Square Inch
Mount Type	Wall, Floor
Material Type	SPGC (Steel Plate Galvanized Cold-rolled) with Enamel Coating
Special Features	Dry Combustion Protection, High Water Pressure Protection, Easy to Install, Anti-Freezing Protection, Lightweight, Overheat Protection, Pressure Release Valve



Image: MIZUDO 2.5 Gallon Electric Mini Tank Water Heater showing its compact dimensions (13.39"W x 16.9"H x 11.42"D).

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Video: Demonstrates the physical dimensions of the MIZUDO Electric Mini Tank Water Heater, Model Etech 25, for installation planning.

Setup and Installation

Proper installation is critical for the safe and efficient operation of your water heater. If you are unsure about any steps, consult a qualified professional.

Tools and Materials Required:

- Hand or electric drill (cordless preferred)
- Adjustable wrenches
- Slotted and Phillips screwdrivers
- Utility knife or scissors
- Safety glasses
- Drill bits: 1" (for faucet hole), 1/4" (for drainpipe)
- Safety mask
- Teflon tape

NOTICE: Not all tools may be necessary for your specific installation. Read all installation procedures before starting to determine what tools are required.

Mounting the Unit:

1. Determine the lowest installation position for the hanging bracket, considering the cabinet's internal space, temperature and pressure safety valves, and the height of the inlet and outlet pipes.
2. Use a pen to mark the positions for the hanging bracket fixing holes.
3. Drill holes at the marked positions using an electric drill.
4. Insert the adhesive particles (wall anchors) into the drilled holes.
5. Fix the hanging bracket securely with screws.
6. Carefully lift and fix the water heater product onto the installed hanger.

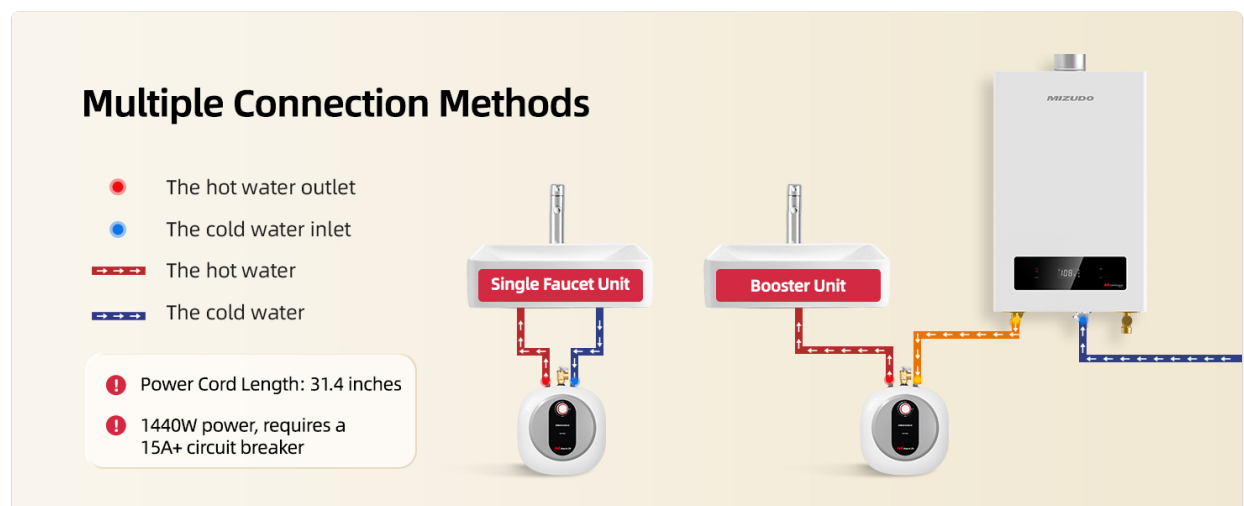


Image: Illustration of multiple connection methods for the MIZUDO Electric Mini Tank Water Heater, showing single faucet unit and booster unit configurations.

Pipe Connections:

1. Turn off the cold water supply to the installation area.
2. Add a three-way valve at the joint on the cold water pipeline. Wrap the threads with Teflon tape (more than 15 times) before tightening.

3. Install the valve on the electric mini tank water heater inlet pipe (blue arrow) and install it onto the three-way valve. Wrap threads with Teflon tape (more than 15 times) before tightening.
4. Install the hot water connection pipe from the faucet to the electric mini tank water heater hot water outlet joint (red arrow).
5. Wrap the tower joint (drainage port) with Teflon tape (more than 8 times) and install it onto the temperature and pressure safety valve, then tighten it with a wrench.
6. Insert the drainage pipe into the tower joint.

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Video: Detailed demonstration of the installation process for the MIZUDO Electric Mini Tank Water Heater, including mounting and pipe connections.

Operating Instructions

Initial Startup (Water Injection and Air Exhaust):

IMPORTANT: Be sure to inject water and exhaust air before starting the unit to prevent damage.

1. Open the cold water valve to allow water into the tank.
2. Turn on the hot water faucet at your sink to fill the water heater and drain any air from the system.
3. Wait until a steady stream of water flows from the hot water faucet, indicating that the tank is full and all air has been purged.
4. Turn off the hot water faucet.

Power On and Temperature Adjustment:

1. Plug the power cord into a grounded 120V outlet.
2. Rotate the temperature control knob on the front of the unit to set your desired water temperature. The range is 55°F to 145°F.
3. The "HEATING" indicator light will illuminate, signifying that the unit is actively heating the water.
4. The L-shaped 310S stainless steel heating rod provides rapid and even heating with 1440W of power.

Rapid Heating with 1440W

Longer Heating Rod - Faster Heating

24 hrs

All-day Insulation

±3°F

Stable Temperature

3 Layers

Leak Protection



Image: Diagram illustrating the rapid heating capability of the MIZUDO water heater with its 1440W L-shaped heating rod.

Why Choose MIZUDO?

MIZUDO	Others
	
✓ Heating efficiency Rapid Boiling with 1400W Power	! It Takes a Long Time for the Water to Heat up
✓ Overheating and Dry-Run Protection ✓	! ✗
✓ Heating Ensures Uniform Heating	! Mixed Hot & Cold Water
✓ Safety Assurance CSA Listed	! Risk of Electric Leakage

Image: Comparison highlighting MIZUDO's rapid boiling, uniform heating, and CSA listed safety features against other water heaters.

Maintenance

Regular maintenance helps prolong the life and efficiency of your MIZUDO water heater.

- **Tank Protection:** The tank is constructed with SPGC material and coated with a 0.8 mm thick layer of German-made enamel, providing corrosion, rust, and leak resistance. A built-in magnesium rod further protects the tank from corrosion.
- **T&P Valve:** The Temperature and Pressure (T&P) valve is a critical safety component. Periodically check the valve for proper operation as per local plumbing codes.
- **Drainage:** For draining the tank (e.g., for winterization or service), ensure the power is off and the water supply is shut off. The drainage pipe can be inserted into the tower joint (T&P valve connection) to facilitate draining.
- **Cleaning:** Clean the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.

Triple-Material Composite Protection



Insulation layer

Keeps Water Hot

SPGC

Strong & Durable

Density Coating

Leak & Rust Proof

Enamel Coating

Corrosion Resistant

Image: Cross-section view illustrating the triple-material composite protection of the MIZUDO water heater, including insulation, SPGC, density coating, and enamel coating.

Incorporating T&P Valve for Safety

This TP valve helps safeguard your home or RV water heater by automatically releasing excess temperature and water pressure, specially designed for smaller water heaters.



Enhanced Safety



Stable Tank Performance



Longer Lifespan



Image: The MIZUDO water heater highlighting the importance and function of the independent Temperature and Pressure (T&P) valve for safety.

Troubleshooting

If you encounter any issues with your MIZUDO Electric Mini Tank Water Heater, please review the installation and operating instructions. Ensure the unit is properly filled with water and air is purged before powering on. Check the circuit breaker for the unit. If problems persist, please contact our after-sales support team for assistance.

Warranty and Support

Your MIZUDO Electric Mini Tank Water Heater comes with 2 years of support. Our after-sales team is available for 24/7 online service to assist with any product questions or concerns you may have.

For support, please refer to the contact information provided in your purchase documentation or visit the official MIZUDO website.