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› **MIZUDO 18 Gallon Point of Use Electric Water Heater Instruction Manual**

MIZUDO ES180A0G

MIZUDO 18 Gallon Point of Use Electric Water Heater Instruction Manual

Model: ES180A0G

WELCOME

This manual provides essential information for the safe installation, operation, and maintenance of your MIZUDO 18 Gallon Point of Use Electric Water Heater. Please read all instructions carefully before installation and use.



A front view of the MIZUDO 18 Gallon Electric Water Heater, showing its gray cylindrical tank and control panel.

IMPORTANT SAFETY INSTRUCTIONS

Adherence to these safety guidelines is crucial for preventing property damage, personal injury, or death.

- **UL Listed:** This water heater is UL listed, ensuring it meets recognized safety standards.
- **T&P Relief Valve:** A Temperature and Pressure (T&P) relief valve must be installed to prevent excessive pressure and temperature buildup.
- **Electrical Safety:** Ensure proper grounding and adhere to all local electrical codes. Disconnect power before servicing.
- **Water Connections:** Use appropriate plumbing materials and ensure all connections are watertight to prevent leaks.
- **Overheat Protection:** The unit includes built-in overheat protection.
- **IPX4 Waterproof:** Provides protection against splashing water.
- **HF-1 Flame Retardant:** Materials used are HF-1 flame retardant for added safety.

Comprehensive Safety Protection

Enjoy warm water with peace of mind



Built-in
Anode Rod



HF-1 Flame
Retardant



IPX4
Waterproof



Overheat
Protection



Over Pressure
Protection



UL certified



An image illustrating the comprehensive safety features of the MIZUDO water heater, highlighting its built-in anode rod, HF-1 flame retardant materials, IPX4 waterproof rating, overheat protection, overpressure protection, and UL certification.

PRODUCT COMPONENTS

Familiarize yourself with the main components of your MIZUDO electric water heater.

Product Information



Accessories



Power Cord Assembly



T&P Valve



Instruction Manual

A detailed diagram of the MIZUDO water heater, labeling key components such as the junction box, anode rod, temperature setting dial, drain valve, T&P valve, 3/4" NPT hot water outlet, and 3/4" NPT cold water inlet. Dimensions are also indicated.

Included Accessories

- Power Cord Assembly
- T&P Valve
- Instruction Manual

INSTALLATION GUIDE

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

Before You Begin

- **Location:** Choose a location that is protected from freezing temperatures and is easily accessible for maintenance. Ensure the product size (19.21" W x 25.59" H) fits your intended space.
- **Mounting:** The unit can be installed independently or as a booster. Ensure the mounting surface can support the full weight of the water heater when filled with water (approximately 150 lbs for 18 gallons).

- **Water Supply:** Ensure a stable water supply with a maximum pressure of 150 PSI.
- **Electrical Supply:** The unit requires a 120V AC electrical supply.

Wiring Options

The MIZUDO water heater offers flexibility for electrical connection.



An illustration demonstrating the two wiring options for the water heater: a plug-in method using the provided power cord for easy installation, and a hardwired option that requires a 16 AWG connection (not included).

- **Plug-in:** Install using the included power cord.
- **Hardwired:** Requires a 16 AWG hardwired connection (not included).

Water Connection

Connect the water heater to your plumbing system using 3/4" NPT water connections. The blue port is for cold water inlet, and the red port is for hot water outlet.

T&P Valve Installation

Install the provided Temperature and Pressure (T&P) relief valve into the designated port on the top of the water heater. Ensure it is properly sealed and directed to an appropriate drain.

Your browser does not support the video tag.

This video provides a visual guide to installing the MIZUDO Electric Hot Water Heater, covering steps such as connecting the electrical wiring (both plug-in and hardwired options) and installing the Temperature and Pressure (T&P) relief valve.

OPERATING YOUR WATER HEATER

Powering On

After successful installation and filling the tank with water, connect the unit to the power supply. The indicator light will illuminate, signifying that the heater is active.

Adjusting Temperature

The water heater features an adjustable thermostat with a temperature range of 90°F to 150°F.



An image detailing the temperature adjustment mechanism, showing the thermostat dial pointer, the reset button, and the protective cover. The temperature range of 90-150°F is also indicated.

1. Locate the thermostat protective cover on the front of the unit.
2. Carefully remove the cover.
3. Use the thermostat dial pointer to set your desired water temperature within the 90°F–150°F range.
4. Replace the protective cover securely.

Initial Use

For the first use, allow approximately 60 minutes for the 18-gallon tank to heat water to the set temperature.

MAINTENANCE AND CARE

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

Draining the Tank

Periodically drain the tank to remove sediment buildup. Turn off the power, close the cold water inlet valve, open a hot water faucet, and then open the drain valve at the bottom of the tank.

Anode Rod Inspection and Replacement

The built-in anode rod protects the tank from corrosion. Inspect it annually and replace it if significantly depleted. Refer to the "Product Components" diagram for its location.

Cleaning

Clean the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners.

TROUBLESHOOTING GUIDE

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
No hot water	No power; thermostat set too low; tripped high-limit switch.	Check power supply; adjust thermostat; reset high-limit switch (under protective cover).
Insufficient hot water	Thermostat set too low; excessive hot water usage; sediment buildup.	Increase thermostat setting; reduce hot water demand; drain and flush tank.
Water too hot	Thermostat set too high.	Lower thermostat setting.
Leaking T&P valve	Excessive pressure; faulty valve.	Check water pressure; replace T&P valve if necessary.

TECHNICAL SPECIFICATIONS

Key technical details for the MIZUDO ES180A0G Electric Water Heater.

Feature	Detail
Model Number	ES180A0G
Nominal Tank Capacity	18 Gallons
Dimensions (H x W)	29.1" x 19.21"
Amps	12.5 A
Wattage	1500 W

Feature	Detail
Voltage	120 V
Water Connection	3/4" NPT
Temperature Range	90-150°F
Maximum Water Pressure	150 PSI
Heating Element Material	Incoloy 800
Insulation Layer	1.20" thick



Model Number	ES060A0G	ES100A0G	ES180A0G
Nominal Tank Capacity	6 Gallon	10 Gallon	18 Gallon
Dimension	20.7"(H) x 14.76"(L) x 14.76"(W)	27.9"(H) x 14.76"(L) x 14.76"(W)	29.1"(H) x 19.21"(L) x 19.21"(W)
Amps	12.5		
Wattage	1500		
Voltage	120		
Water Connection	3/4" NPT		
Temperature Range (°F)	90-150		

A comparative table displaying the specifications for different MIZUDO water heater models, including the 18 Gallon ES180A0G, detailing its nominal tank capacity, dimensions, electrical ratings (amps, wattage, voltage), water connection type, and adjustable temperature range.

WARRANTY INFORMATION

MIZUDO provides the following warranty for your electric water heater:

- **Whole Unit:** 1 Year Warranty

- **Inner Tank:** 3 Year Warranty

Please retain your proof of purchase for warranty claims.

Customer Support

For technical assistance, troubleshooting not covered in this manual, or warranty inquiries, please contact MIZUDO customer support. Refer to the product packaging or the official MIZUDO website for current contact details.