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DOYXC 1500W

DOYXC Tankless Electric Water Heater User Manual

Model: 1500W
Brand: DOYXC

1. Introduction

Thank you for choosing the DOYXC Tankless Electric Water Heater. This compact and efficient unit provides instant hot water on demand, eliminating the need for preheating and saving energy. Designed for versatility, it is suitable for various applications including kitchens, bathrooms, RVs, and camping setups. This manual provides essential information for safe installation, operation, and maintenance of your new water heater.



Image 1.1: Comparison highlighting the benefits of a tankless water heater, such as unlimited hot water and fast heating, compared to traditional tank heaters.

2. Safety Instructions

IMPORTANT: Read all safety warnings and instructions carefully before installation and use to prevent electric shock, fire, injury, or property damage.

- **Electrical Requirements:** Ensure the electrical wiring meets local codes. This 110V, 3000W unit requires 2.5mm² (13AWG) wiring with a circuit breaker of ≥32AMP.
- **Water Pressure:** Ensure adequate water pressure (0.04-1.2MPa) for proper operation.
- **Vertical Installation Only:** The unit must be installed vertically. Horizontal installation is **not allowed** as it can lead to heating element failure and dry heating.
- **Waterproof Rating:** The unit has an IPX4 waterproof rating, providing protection against splashing water.
- **Built-in Protections:** Features include leakage protection, dry burning protection, overheating protection, and

automatic power-off in non-working conditions for enhanced safety.

- **Professional Installation:** For electrical and plumbing connections, it is recommended to consult qualified professionals.



Image 2.1: Overview of the multiple safety features including stable temperature, IPX4 waterproof, overheating protection, over voltage protection, leakage protection, auto power off, dry burn protection, and separation of water and electricity.

3. Product Overview

The DOYXC Tankless Electric Water Heater is designed for convenience and efficiency. It features a sleek, compact design with a digital display for easy temperature monitoring and control.

Components:

- **Main Unit:** The compact heating unit with integrated controls.

- **Digital Display:** Shows current water temperature and operating status.
- **Touch Button:** Used for power on/off and switching between Celsius and Fahrenheit.
- **Water Inlet/Outlet:** Standard 1/2 inch NPT connections for water lines.
- **Power Cord:** Pre-attached power cord for electrical connection.
- **Mounting Screws:** Included for wall-mounting the unit.



Image 3.1: The main unit of the DOYXC Tankless Electric Water Heater, showing its compact size, digital display, and connection points, along with included mounting screws.



Image 3.2: Close-up view highlighting key features such as the high-quality ABS material, touch button for temperature toggle, universal G1/2-inch interface, and long power cord.

4. Specifications

Feature	Specification
Brand	DOYXC
Model Number	1500W
Product Dimensions	4.53"W x 8.87"H x 4.0"D
Item Weight	1.9 pounds
Color	White

Feature	Specification
Wattage	3000 watts
Voltage	110 Volts
Maximum Flow Rate	2.9 Milliliters Per Minute
Maximum Temperature	131 Degrees Fahrenheit (55°C)
Mounting Type	Under Sink (Wall-mounted)
Waterproof Level	IPX4
Circuit Breaker Requirement	≥32AMP
Wire Requirements	2.5mm² (13AWG) Copper wire



Image 4.1: Visual representation of the water heater's dimensions and key technical specifications.

5. Setup and Installation

The DOYXC Tankless Electric Water Heater is designed for quick and easy installation. Follow these steps carefully:

1. **Choose Location:** Select a suitable location, typically under a sink, ensuring it is wall-mounted and allows for vertical installation.
2. **Mounting:** Use the pre-fabricated set screw holes on the unit to securely mount it to the wall. Ensure the unit is level and stable.
3. **Water Connections:** Connect the cold water inlet (bottom connection) and hot water outlet (top connection) using 1/2 inch NPT standard connections. Ensure all connections are tight to prevent leaks.
4. **Electrical Connection:** Connect the power cord to a dedicated 110V electrical outlet. Ensure your circuit has a 32AMP or higher breaker and uses 2.5mm² (13AWG) copper wire.
5. **Flush System:** Before powering on, open the hot water faucet to allow water to flow through the heater and purge any air from the system. This prevents dry heating.
6. **Power On:** Once water flows steadily from the hot water faucet, you can plug in the unit and press the power button.



Image 5.1: Diagram illustrating the correct vertical installation of the water heater under a sink, showing cold water inlet, hot water outlet, and electrical connection to a circuit breaker.

6. Operating Instructions

Your DOYXC Tankless Electric Water Heater is designed for simple operation.

1. **Power On/Off:** Press the 'ON/OFF' touch button on the front of the unit to turn the heater on or off. The digital display will illuminate when powered on.
2. **Temperature Adjustment:** The unit will automatically heat water to the set temperature. The maximum temperature is 131°F (55°C).
3. **Switching Temperature Scale (Celsius/Fahrenheit):** To switch between Celsius (°C) and Fahrenheit (°F), press and hold the 'ON/OFF' button for a few seconds until the display changes.
4. **Instant Hot Water:** Once activated, the heater provides hot water within 3-5 seconds, eliminating waiting times.



Image 6.1: Examples of where the instant hot water heater can be used, including kitchen sinks, hair washing stations, bathroom sinks, and RVs, demonstrating its versatility.

7. Maintenance

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

- **Cleaning:** Wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Inspect Connections:** Periodically check water and electrical connections for any signs of leaks or wear.
- **Winterization (if applicable):** If the unit is installed in an area subject to freezing temperatures (e.g., RV, outdoor shower), ensure it is properly drained and protected from freezing to prevent damage.

8. Troubleshooting

If your water heater is not functioning as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
E1 on screen	Temperature excursion	Ask professionals to repair or replace parts.
E2 on screen	Circuit board failure	Ask professionals to repair or replace parts.
E3 on screen	Leakage caused by damaged heating element or circuit board	Ask professionals to repair or replace parts.
E4 on screen	Failure of outlet water temperature sensor	Ask professionals to repair or replace parts.
Power connection is normal, but water heater can't work.		Please check the below for trouble shooting: i. Please check if the water flows through the water heater. If the water does not flow through it, please check inlet water connection. ii. Please check the water pressure. If water pressure is too low, the water heater will not start. iii. Please check if the water inlet or outlet is connected correctly. Water inlet is at the bottom. Water outlet with red rubber ring is on the top. iv. If water pressure is normal, and the water inlet is correct, but water is still not heated, please check whether the water inlet turbine located in water inlet is dirty.

9. Warranty and Support

The DOYXC Tankless Electric Water Heater comes with a**24-month warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.
If you encounter any issues or have questions regarding your water heater, please contact our dedicated support team. Provide your product model and purchase details for faster assistance.
For support, please refer to the contact information provided with your purchase or visit the official DOYXC website.

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