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CO-Z WHW-12L-001

CO-Z WHW-12L-001 12L LPG Tankless Water Heater

User Instruction Manual

1. Introduction

Thank you for choosing the CO-Z WHW-12L-001 12L LPG Tankless Water Heater. This appliance is designed to provide instant and continuous hot water for various applications, including household use and outdoor activities like camping. This manual provides essential information for safe installation, operation, and maintenance of your water heater. Please read it thoroughly before use and retain it for future reference.



Image 1.1: Front view of the CO-Z 12L LPG Tankless Water Heater, highlighting its 12 L/min maximum flow rate and CE certification.

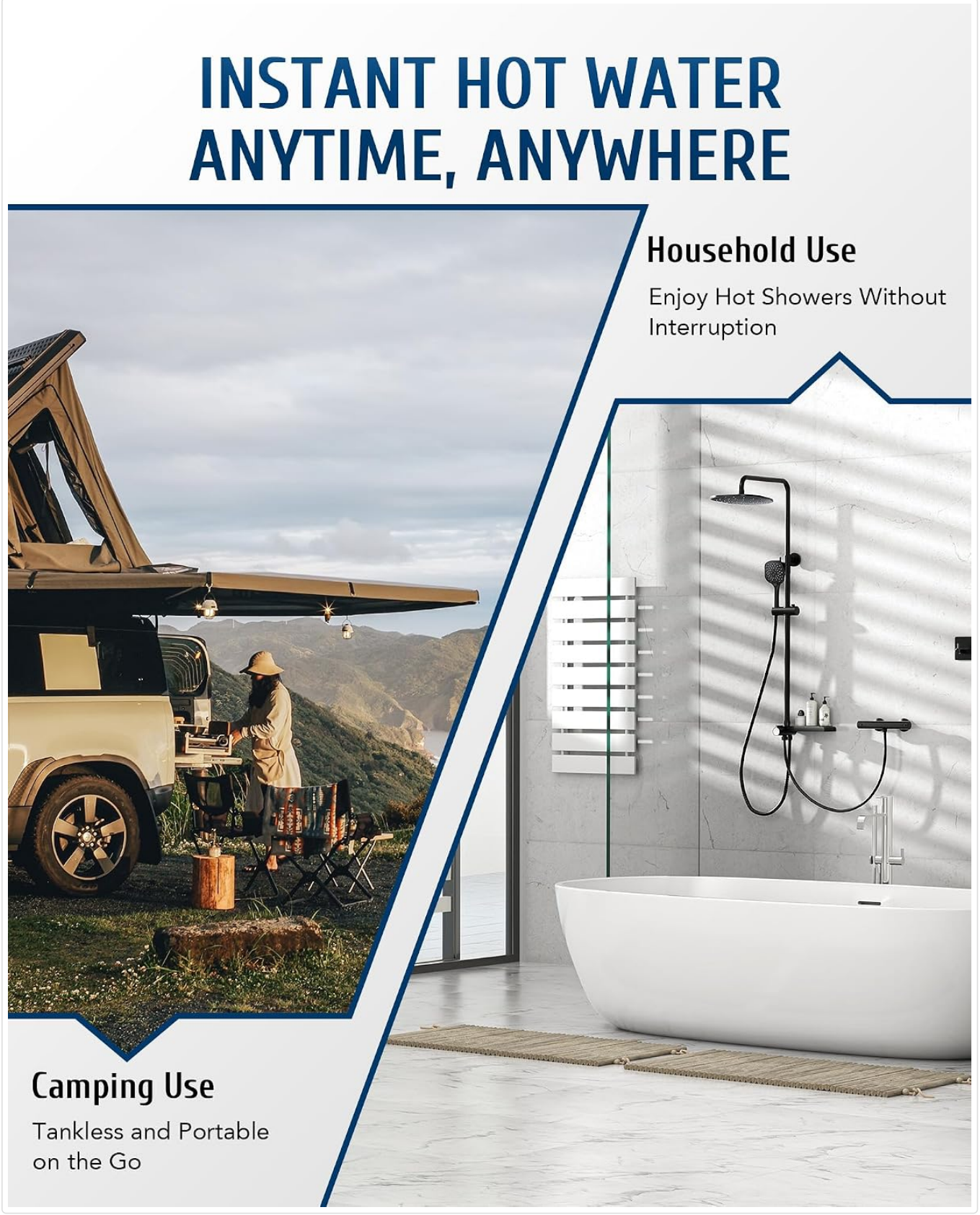


Image 1.2: The water heater is suitable for both household use, providing uninterrupted hot showers, and portable camping use.

2. Safety Information

WARNING: Failure to follow these safety instructions could result in fire, explosion, electric shock, property damage, personal injury, or death.

- **Outdoor Installation Only:** This appliance is designed for outdoor installation. **ALWAYS install the heater outdoors** in a well-ventilated area.

- **Avoid Confined Spaces:** Do not install in confined areas with low ventilation, such as bathrooms or small enclosed spaces, to prevent the accumulation of harmful gases.
- **Gas Type:** Use only Liquid Propane Gas (LPG) with this appliance. Do not attempt to use natural gas or any other fuel type.
- **Ventilation:** Ensure proper ventilation around the unit to allow for safe exhaust of combustion byproducts.
- **Leak Checks:** Before initial use and after any gas connection changes, perform a gas leak check using soapy water. Never use an open flame to check for leaks.
- **Children and Pets:** Keep children and pets away from the water heater during operation.
- **Professional Installation:** Installation should be performed by a qualified professional in accordance with all local codes and regulations.
- **Maintenance:** Regular maintenance and inspection are crucial for safe operation.

3. Product Components and Diagram

Familiarize yourself with the various parts of your CO-Z tankless water heater for proper installation and operation.

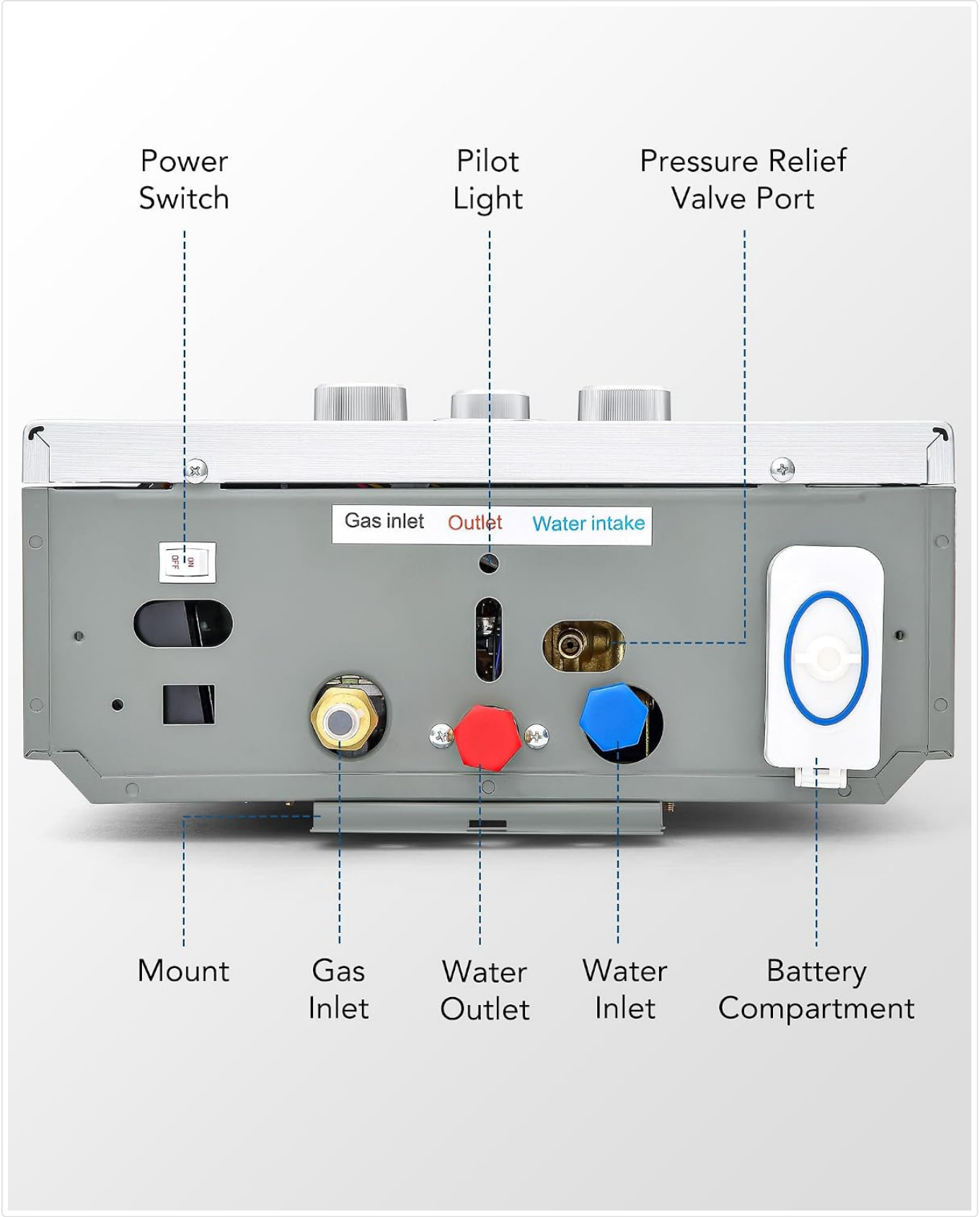


Image 3.1: Bottom view of the water heater showing key connection points: Power Switch, Pilot Light, Pressure Relief Valve Port, Mount, Gas Inlet, Water Outlet, Water Inlet, and Battery Compartment.

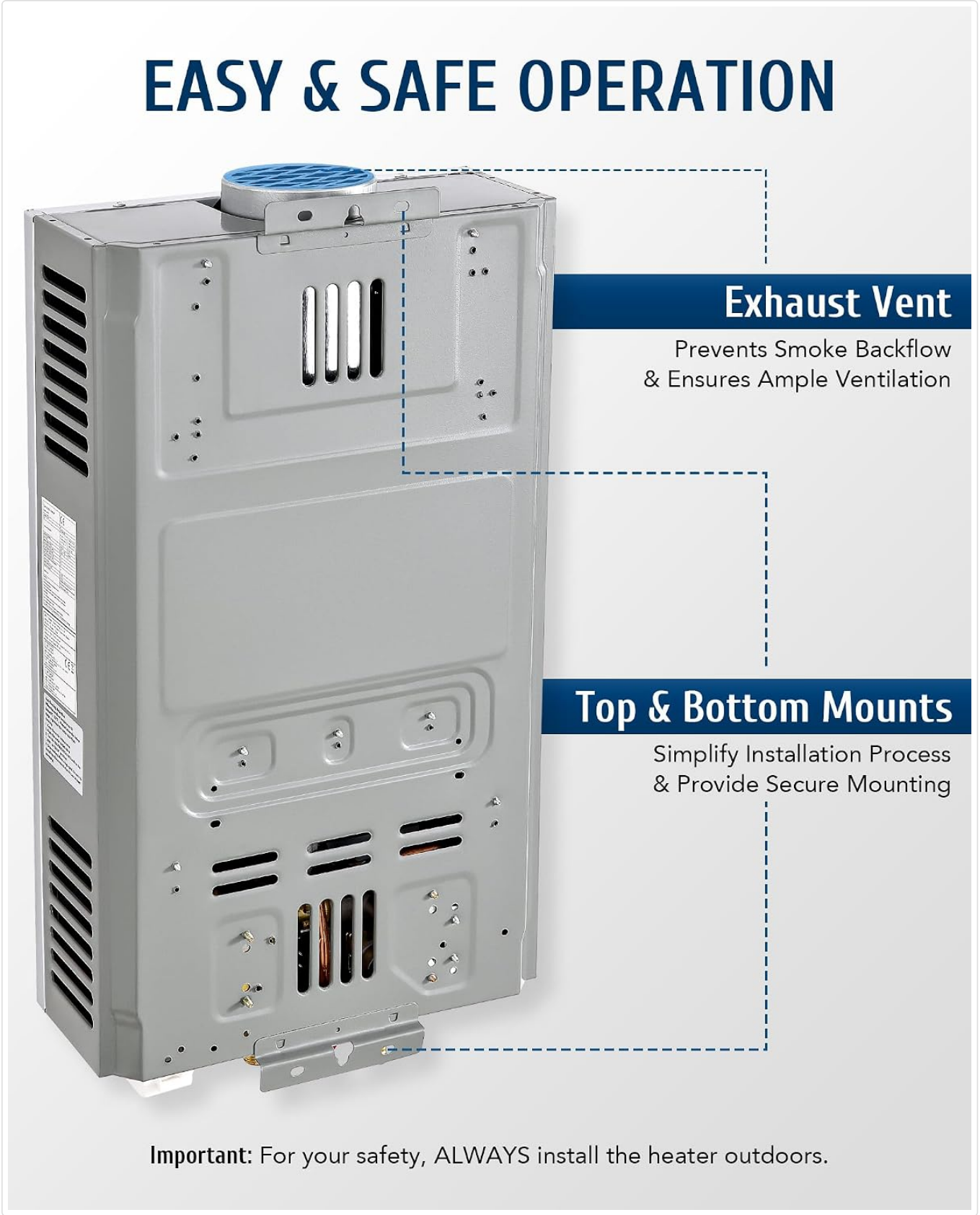


Image 3.2: Rear view illustrating the Exhaust Vent, which prevents smoke backflow and ensures ventilation, and the Top & Bottom Mounts for secure installation.

4. Setup and Installation

Proper installation is critical for the safe and efficient operation of your water heater. Refer to local codes and regulations.

4.1 Mounting

1. Select an outdoor, well-ventilated location away from windows, doors, and air intakes.
2. Use the top and bottom mounting points (refer to Image 3.2) to securely fasten the unit to a sturdy vertical surface. Ensure the unit is level.

4.2 Gas Connection

1. Connect the LPG gas supply line to the Gas Inlet (refer to Image 3.1).
2. Ensure all gas connections are tight and sealed. The recommended LPG pressure is 28-35 mbar.
3. Perform a leak test using soapy water on all gas connections. Bubbles indicate a leak. Tighten connections or replace parts as necessary.

4.3 Water Connections

1. Connect the cold water supply line to the Water Inlet (blue connection, refer to Image 3.1).
2. Connect the hot water output line to the Water Outlet (red connection, refer to Image 3.1).
3. Ensure all water connections are tight. The recommended water pressure range is 0.015-0.8 bar.
4. Install a pressure relief valve (not included) to the Pressure Relief Valve Port as per local codes.

4.4 Battery Installation

1. Open the Battery Compartment (refer to Image 3.1).
2. Insert two (2) 1.5V D batteries, ensuring correct polarity.
3. Close the battery compartment securely.

5. Operating Instructions

The CO-Z water heater features intuitive controls for easy temperature and mode adjustments.

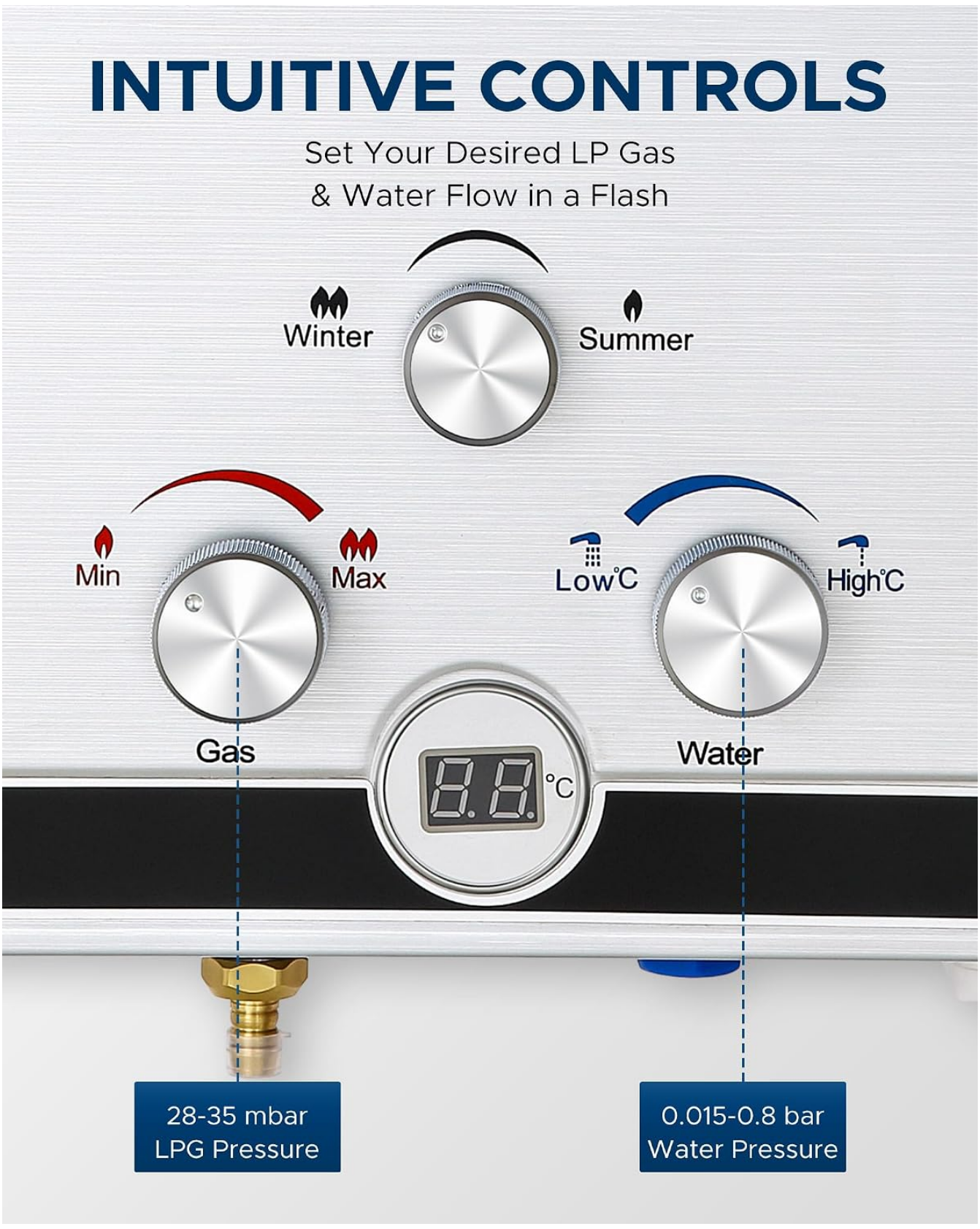


Image 5.1: Detailed view of the control panel, showing the Winter/Summer mode selector, Gas flow knob, Water flow knob, and LED temperature display.

5.1 Initial Start-Up

1. Ensure all gas and water connections are secure and leak-free.
2. Open the main gas supply valve.
3. Open the cold water supply valve to the unit.
4. Turn on the Power Switch (refer to Image 3.1).

5.2 Adjusting Temperature and Modes

- **Winter/Summer Mode Selector:** Rotate the top knob to select between 'Winter' (full power, more flames for colder water) and 'Summer' (reduced power, fewer flames for warmer incoming water) modes.
- **Gas Flow Knob:** Adjust the 'Gas' knob (Min to Max) to control the gas supply and thus the heat output. Higher gas flow results in hotter water.
- **Water Flow Knob:** Adjust the 'Water' knob (Low°C to High°C) to control the water flow rate. Lower water flow (closer to Low°C) allows for more heating time, resulting in hotter water. Higher water flow (closer to High°C) results in cooler water.
- **LED Display:** The digital LED display shows the real-time water outlet temperature. The adjustable temperature range is 31 to 72°C (88-162°F).

5.3 Shutting Down

1. Turn off the Power Switch.
2. Close the main gas supply valve.
3. Close the cold water supply valve to the unit.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your water heater.

- **Exterior Cleaning:** Clean the exterior casing with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Gas Connections:** Periodically check gas connections for leaks.
- **Water Inlet Filter:** Inspect and clean the water inlet filter screen regularly to prevent blockages.
- **Exhaust Vent:** Ensure the exhaust vent is clear of obstructions.
- **Battery Replacement:** Replace batteries when the LED display dims or the igniter fails to spark.
- **Winterization (if applicable):** In freezing conditions, drain the unit completely to prevent damage from frozen water.

7. Troubleshooting

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
No hot water / Unit not igniting	No gas supply, low water pressure, dead batteries, clogged water inlet filter.	Check gas supply, ensure adequate water pressure, replace batteries, clean water inlet filter.
Water not hot enough	Gas flow too low, water flow too high, incorrect mode (e.g., Summer mode in winter).	Increase gas flow, decrease water flow, switch to Winter mode if appropriate.
Water too hot	Gas flow too high, water flow too low, incorrect mode (e.g., Winter mode in summer).	Decrease gas flow, increase water flow, switch to Summer mode if appropriate.
Gas smell	Gas leak.	Immediately shut off gas supply, ventilate the area, do not operate the unit, contact a qualified technician.

8. Specifications

Detailed technical specifications for the CO-Z WHW-12L-001 12L LPG Tankless Water Heater.



Image 8.1: Dimensions of the CO-Z 12L LPG Tankless Water Heater: 59 cm (height), 35 cm (width), 15 cm (depth).

Feature	Specification
Model	WHW-12L-001
Max. Flow Rate	12 L/min. (2.6 Imp. gal.)
Compatible Gas Type	Liquid Propane Gas (LPG)
Heat Output	4.8-20.4 kW
Water Pressure Range	0.2-10 bars (2.9-145 psi)

Feature	Specification
Water Inlet & Outlet OD	13 mm (0.5 in.)
Temperature Range	31 to 72°C (88-162°F)
Number of Flames	7 (Summer) / 13 (Winter)
Gas Inlet OD	9.5 mm (0.4 in.)
Power Source	2 x 1.5V D Batteries (Not Included)
Dimensions (H x W x D)	59 x 35 x 15 cm (23.2 x 13.8 x 5.9 in.)
Net Weight	6 kg (13.2 lb.)
Material	Stainless Steel
Mount Type	Wall

9. Support

For further assistance, technical support, or warranty inquiries, please contact CO-Z customer service through the retailer's platform or the official CO-Z website. Please have your model number (WHW-12L-001) and purchase details ready.

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