CO-Z WHW-NP12-00-ES1

CO-Z 12L Tankless LPG Water Heater User Manual

Model: WHW-NP12-00-ES1

Introduction

This manual provides essential information for the safe and efficient operation of your CO-Z 12L Tankless LPG Water Heater. Please read all instructions carefully before installation and use. Retain this manual for future reference.
The CO-Z 12L LPG water heater delivers instant hot water with a powerful 20.4 kW heat output and a capacity of 12 L/min. It is designed for outdoor installation and is ideal for off-grid living, requiring only two 1.5V D batteries and an LPG gas cylinder.

Important Safety Information

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.
IMPORTANT: ONLY install this device outdoors, fully protected from weather and extreme temperatures. NEVER locate this device indoors, especially in bathrooms, bedrooms, kitchens, or similar enclosed areas.

General Safety Precautions:

- Ensure adequate ventilation when operating.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Check for gas leaks regularly using a soapy water solution, never an open flame.
- Keep children and pets away from the water heater during operation.
- Always use the correct type of gas (LPG) and ensure the pressure is within the specified range.

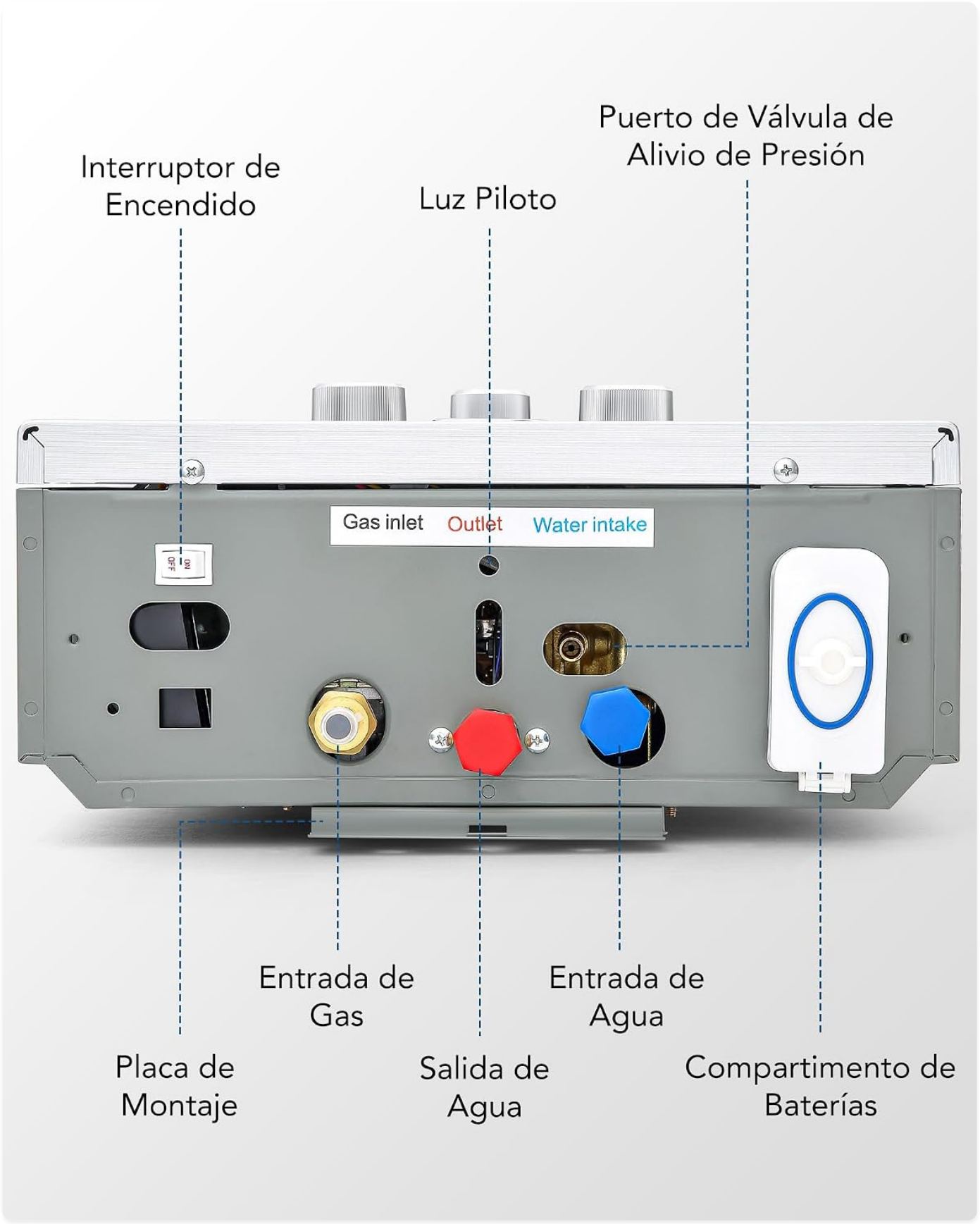
- Do not block the exhaust vent.


Do not install in confined areas
with low ventilation like bathroom
12L
LPG
Winter
Summer
Min
Max
Gas
Low°C
High°C
Water
°C

Front view of the CO-Z 12L LPG Water Heater, showing the control knobs for gas and water flow, and the digital temperature display. A warning label indicates not to install in confined areas with low ventilation like bathrooms.

Product Components and Features

Familiarize yourself with the main components of your CO-Z 12L Tankless LPG Water Heater.



Detailed diagram showing the rear connections of the water heater, including the gas inlet, water intake, water outlet, pressure relief valve port, battery compartment, pilot light, and power switch.

- **Gas Inlet:** Connection point for the LPG gas supply.
- **Water Intake:** Connection point for cold water supply.
- **Water Outlet:** Connection point for hot water output.
- **Pressure Relief Valve Port:** For safety, to release excess pressure.
- **Battery Compartment:** Holds two 1.5V D batteries for ignition.

- **Pilot Light:** Indicates operational status.
- **Power Switch:** To turn the unit on/off.
- **Mounting Plate:** For secure wall installation.



Diagram illustrating the dimensions of the CO-Z 12L LPG Water Heater: 59 cm height, 35 cm width, and 15 cm depth.

Setup and Installation

Location Requirements:

The CO-Z 12L Tankless LPG Water Heater is designed for outdoor use only. It must be installed in a well-ventilated area, protected from direct weather exposure and extreme temperatures.

- **Recommended Locations:** Exterior walls of homes or RVs (with protective cover), covered balconies, protected outdoor spaces.
- **Forbidden Locations:** Indoors, especially bathrooms, bedrooms, kitchens, or any enclosed, unventilated spaces.



Installation on the exterior wall of an RV. A protective cover (not included) is recommended for weather protection.



Installation on a covered balcony, ensuring protection from direct elements while maintaining ventilation.



Installation in a protected outdoor space, such as a shed or lean-to, ensuring proper ventilation.



Incorrect installation: Indoor spaces without ventilation are strictly forbidden due to carbon monoxide risk.

Connecting Gas and Water:

1. Mount the water heater securely to a vertical surface using the provided mounting plate.
2. Connect the cold water supply to the "Water Intake" port (blue). Ensure a minimum water pressure of 0.2 bar.
3. Connect the hot water outlet to your desired fixtures from the "Water Outlet" port (red).
4. Connect the LPG gas cylinder to the "Gas Inlet" port (yellow/brass). Ensure the gas pressure is between 20-35 mbar for butane or 37 mbar for propane (check local regulations).
5. Install two 1.5V D batteries into the battery compartment.
6. Before first use, check all connections for leaks using a soapy water solution. Bubbles indicate a leak.

Gas Type and Pressure Verification:

It is crucial to verify the correct gas type and pressure for your region to ensure safe and efficient operation. Some regions may require a pressure relief valve depending on the gas type.

Applicable Countries	Gas Type & Pressure	Optimal Gas Pressure	Relief Valve Needed
Spain, France, UK, Italy	Butane: 28-30 mbar Propane: 37 mbar	28-35 mbar	Butane (No) Propane (Yes)
France, Italy, Netherlands	LPG: 30 mbar		No
Germany	LPG: 50 mbar		Yes

Operating Instructions

Controls Overview:



Close-up view of the intuitive control knobs for gas flow, water flow, and the summer/winter mode selector, along with the digital temperature display.

- **Gas Knob (Min-Max):** Adjusts the gas flow to control the heat output. Turn towards 'Max' for higher temperature.
- **Water Knob (Low°C-High°C):** Adjusts the water flow. Turning towards 'Low°C' reduces water flow, allowing for higher temperature rise. Turning towards 'High°C' increases water flow, resulting in lower temperature rise.
- **Summer/Winter Mode Selector:**

    - **Summer Mode:** Uses fewer burners, suitable for warmer ambient water temperatures, saving gas.
    - **Winter Mode:** Uses all burners, suitable for colder ambient water temperatures, providing maximum heat.
- **Digital Display:** Shows the current water temperature in Celsius.

Starting the Water Heater:

1. Ensure the gas supply is open and water is connected.
2. Turn on the power switch.
3. Open a hot water tap. The water heater will automatically ignite.
4. Adjust the gas and water knobs to achieve your desired water temperature.
5. Select Summer or Winter mode based on the season and incoming water temperature.

Stopping the Water Heater:

Simply close the hot water tap. The water heater will automatically shut off.

Maintenance

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

- **Cleaning:** Periodically wipe the exterior with a soft, damp cloth. Do not use abrasive cleaners.
- **Gas Connections:** Annually check all gas connections for leaks.
- **Ventilation:** Ensure the exhaust vent is clear of obstructions.
- **Battery Replacement:** Replace the D batteries when the digital display dims or ignition becomes inconsistent.
- **Winterization (if applicable):** If the unit is exposed to freezing temperatures, drain the water from the unit to prevent damage. Consult a qualified technician if unsure.

Troubleshooting

Problem	Possible Cause	Solution
No hot water / Unit not igniting	No gas supply Low water pressure Dead batteries Blocked exhaust Flame failure protection activated	Check gas cylinder and regulator Ensure adequate water flow Replace D batteries Clear any obstructions Turn off water, wait, then retry

Problem	Possible Cause	Solution
Water not hot enough	Gas flow too low Water flow too high Incorrect mode (Summer/Winter) Low ambient water temperature	Increase gas knob setting Decrease water knob setting Switch to Winter mode Adjust gas/water flow accordingly
Unit cycles on/off rapidly	Insufficient water flow Overheating protection activated	Increase water flow Check for kinks in water lines; ensure proper ventilation
Gas smell	Gas leak	**Immediately turn off gas supply. Ventilate the area. Do not operate. Contact a qualified technician.**

Technical Specifications

Parameter	Value
Product Name	12L Butane Water Heater
Maximum Flow Rate	12 L/min (2.6 gpm)
Maximum Heat Output	20.4 kW
Water Pressure Range (Optimal)	2-7 bar
Water Pressure Range (Total)	0.2-10 bar
LPG Pressure Range (Optimal)	28-35 mbar
LPG Pressure Range (Total)	20-35 mbar
Maximum Temperature	75°C
Outer Diameter of Water Inlet/Outlet	20 mm
Outer Diameter of Gas Inlet	10 mm
Certification	CE
Dimensions (L x W x H)	15 x 32 x 52 cm
Voltage	3 Volts (DC)
Color	Silver



The energy efficiency label for the CO-Z 12L LPG Water Heater, indicating its efficiency rating.

Warranty and Support

For warranty information and customer support, please refer to the documentation provided with your purchase or contact CO-Z customer service directly.

Return Policy: The product has a 30-day refund/replacement return policy from the date of purchase.

Manufacturer: CO-Z

Model Number: WHW-NP12-00-ES1

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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