

CO-Z JSD-16

CO-Z JSD-16 Instant LPG Butane Tankless Water Heater User Manual

Model: JSD-16 | Brand: CO-Z

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your CO-Z JSD-16 Instant LPG Butane Tankless Water Heater. This gas water heater is designed to provide instant hot water for various domestic applications. It features a clear temperature display and allows for precise temperature adjustment. Please read this manual thoroughly before installation and use, and keep it for future reference.

2. 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.

- **Outdoor Installation Only:** This appliance is designed for outdoor installation only. Do not install in confined areas with low ventilation, such as bathrooms or enclosed spaces.
- **Professional Installation Recommended:** For optimal efficiency and safety, installation should be performed by a qualified professional technician.
- **Ventilation:** Ensure the unit is used in well-ventilated conditions to guarantee proper flue kit operation and safety.
- **Pressure Relief Valve:** A 28 bar pressure relief valve is required for safe operation.
- **Automatic Safety Features:** The unit includes an automatic ignition system, flame failure protection, incomplete combustion safety device, and over-temperature protection.
- **Anti-freeze Protection:** Features an anti-freeze protection function.
- **Gas Type:** This water heater is designed for Liquefied Petroleum Gas (LPG) only. Ensure your gas supply matches this requirement.

EASY & SAFE OPERATION



Important: For your safety, ALWAYS install the heater outdoors.

Image: Side view of the CO-Z JSD-16 water heater, highlighting the exhaust vent and mounting points. It emphasizes easy and safe operation, with the exhaust vent preventing smoke backflow and ensuring ventilation. Top and bottom mounts simplify installation. A critical safety note states: "For your safety, ALWAYS install the heater outdoors."

3. PRODUCT OVERVIEW

The CO-Z JSD-16 is a tankless LPG water heater designed for efficiency and convenience. Its compact design and advanced features ensure a reliable supply of hot water.

3.1 Key Features

- Instant Hot Water Delivery
- Automatic IC Battery Ignition (batteries not included)
- Clear Real-Time LED Temperature Display
- Adjustable Gas and Water Flow Knobs for Temperature Control
- Summer and Winter Operating Modes

- Energy-Saving Combustion Technology
- Durable Stainless Steel Shell
- Multiple Safety Protections: Flame Failure, Incomplete Combustion, Over-Temperature, Anti-freeze.
- Built-in 20-minute Timer
- Pressure Relief and Discharge Valve



Image: Front view of the CO-Z JSD-16 water heater, illustrating its key features including Summer & Winter Modes, Adjustable Temperature controls, Stainless Steel Shell, and a Real-Time LED Display for temperature.

3.2 Components

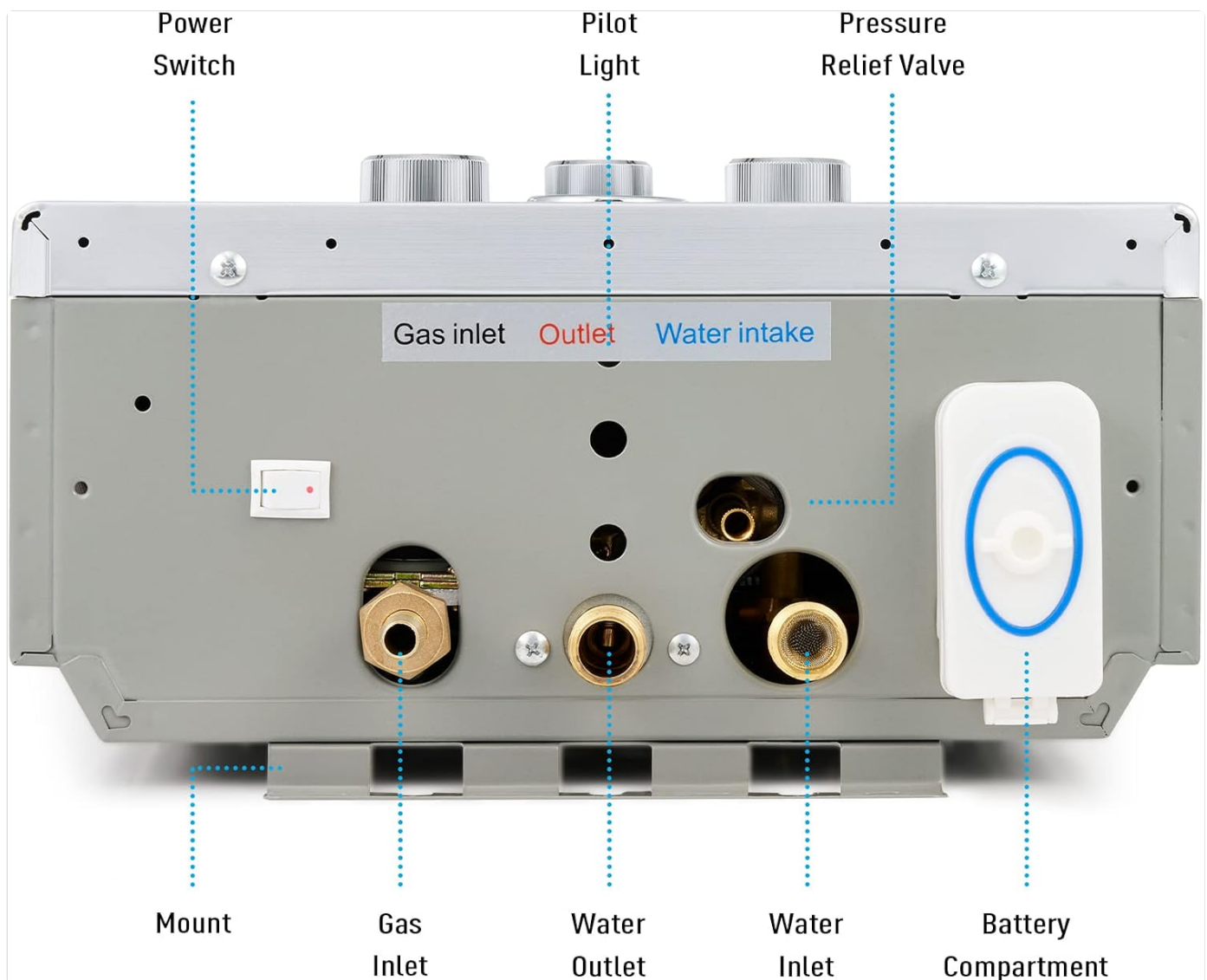


Image: Diagram of the bottom connections of the CO-Z JSD-16 water heater. Labels indicate the Power Switch, Pilot Light, Pressure Relief Valve, Mounting points, Gas Inlet, Water Outlet, Water Inlet, and Battery Compartment.

- **Gas Inlet:** Connection point for LPG gas supply.
- **Water Inlet:** Connection point for cold water supply.
- **Water Outlet:** Connection point for hot water output.
- **Gas Regulator Knob:** Adjusts gas flow.
- **Water Regulator Knob:** Adjusts water flow.
- **Mode Selector:** Switches between Summer and Winter modes.
- **LED Display:** Shows real-time water temperature.
- **Battery Compartment:** Holds 2 x 1.5V batteries for ignition.
- **Exhaust Vent:** For safe expulsion of combustion gases.

4. SPECIFICATIONS

Parameter	Value
Model	JSD-16
Gas Type	LPG (Liquefied Petroleum Gas)
Hot Water Output	8 L/min

Parameter	Value
Thermal Output Power	16 KW
Gas Consumption	1 KG/H
Gas Pressure (LPG)	28 mbar
Suitable Water Pressure	0.015 - 0.8 MPa
Water Connection	G1/2" (1.27 cm) Pipe
Gas Connection	9.5 mm (0.37 inches) Gas Hose
Temperature Increase	25 °C
Dimensions (Approx.)	Width: 32 cm, Height: 52 cm, Depth: 15 cm
Weight	6.55 kg
Energy Efficiency Class	A

CO-Z



Image: The CO-Z JSD-16 water heater displayed alongside its energy efficiency label, indicating a Class A rating.

5. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your water heater. Always adhere to local regulations and safety standards.

5.1 Pre-Installation Checks

- Verify that the gas type (LPG) matches your supply.
- Ensure the installation location is outdoors and well-ventilated. Avoid confined spaces.
- Confirm you have all necessary tools and components, including a 28 bar pressure relief valve (not included).

5.2 Mounting the Unit

1. Select a suitable outdoor wall or sturdy structure for mounting.
2. Use the top and bottom mounting points on the unit to securely fasten it.
3. Ensure the unit is level and stable.

5.3 Connecting Water and Gas

1. **Water Connections:** Connect the cold water supply to the G1/2" water inlet (right side on the underside) and the hot water output to the G1/2" water outlet (center on the underside).
2. **Gas Connection:** Connect the 9.5 mm (0.37 inches) gas hose from your LPG supply to the gas inlet (left side on the underside). Ensure all gas connections are tight and leak-free.
3. **Pressure Relief Valve:** Install the required 28 bar pressure relief valve on the water inlet line as per local codes.

5.4 Battery Installation

1. Locate the battery compartment (typically on the bottom right side).
2. Insert two 1.5V batteries (not included), ensuring correct polarity. These batteries power the automatic ignition system.



Image: The CO-Z JSD-16 Tankless Gas Water Heater, highlighting its 8L/min maximum flow rate and CE certification. The image also depicts scenarios of a person showering and washing clothes, demonstrating its application.

6. OPERATING INSTRUCTIONS

Follow these steps to operate your CO-Z JSD-16 water heater safely and effectively.

1. **Open Gas Supply:** Ensure the main LPG gas supply valve is open.
2. **Open Water Supply:** Ensure the cold water inlet valve to the heater is open.
3. **Power On:** Turn on the power switch on the unit (if applicable, usually for ignition).
4. **Select Mode:** Use the mode selector knob to choose between "Summer" or "Winter" mode. Winter mode typically provides higher heat output.
5. **Adjust Gas Flow:** Use the "GAS REGULATOR" knob to adjust the gas flow. Turning it towards "MAX" increases the flame and water temperature.
6. **Adjust Water Flow:** Use the "WATER REGULATOR" knob to adjust the water flow. Turning it towards "MIN" reduces water flow, allowing for higher temperature rise.

7. **Activate Hot Water:** Open a hot water tap in your home. The unit will automatically ignite, and hot water will flow instantly.
8. **Monitor Temperature:** The LED display will show the real-time water temperature. Adjust gas and water flow knobs as needed to achieve your desired temperature.
9. **Automatic Shut-off:** The unit features a built-in 20-minute timer for safety, automatically shutting off after this period. If continuous hot water is needed, simply close and reopen the hot water tap.



Image: A close-up view of the CO-Z JSD-16 water heater's intuitive control panel. It shows the gas and water regulator knobs, the mode selector, and the LED display. Overlays indicate the adjustable LPG gas pressure (28-37 mbars) and water pressure (0.015-0.5 bars).

7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your water heater. It is recommended to have the unit inspected by a qualified technician annually.

- **Cleaning:** Periodically clean the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners.
- **Ventilation:** Ensure the exhaust vent and surrounding area are free from obstructions.
- **Gas and Water Connections:** Regularly check for any signs of leaks at gas and water connection points.

- **Battery Replacement:** Replace the 1.5V ignition batteries when the ignition becomes inconsistent or fails.
- **Professional Inspection:** Schedule an annual inspection by a certified gas appliance technician to check for wear, proper combustion, and overall safety.

8. TROUBLESHOOTING

This section addresses common issues you might encounter. For problems not listed here or if issues persist, contact a qualified technician or customer support.

Problem	Possible Cause	Solution
No hot water / Unit does not ignite	◦ No gas supply ◦ Low water pressure ◦ Dead batteries for ignition ◦ Gas or water regulator set too low ◦ Safety device activated	◦ Check LPG tank and main gas valve. ◦ Ensure adequate water flow and pressure. ◦ Replace 1.5V batteries in the compartment. ◦ Adjust gas and water regulator knobs to higher settings. ◦ Consult a technician if safety device repeatedly activates.
Water not hot enough	◦ Gas flow too low ◦ Water flow too high ◦ Incorrect mode selected (e.g., Summer in cold weather)	◦ Increase gas regulator setting. ◦ Decrease water regulator setting. ◦ Switch to Winter mode if applicable.
Unit shuts off unexpectedly	◦ 20-minute timer activated ◦ Over-temperature safety activated ◦ Insufficient ventilation	◦ Close and reopen hot water tap to reset. ◦ Check for proper water flow and gas pressure. ◦ Ensure exhaust vent is clear and unit is in a well-ventilated area.

9. WARRANTY AND SUPPORT

Specific warranty details are typically provided with your purchase documentation. Please refer to the warranty card or contact your retailer for information regarding warranty coverage and terms.

For technical support, service, or replacement parts, please contact CO-Z customer service or your authorized dealer. Have your model number (JSD-16) and purchase date ready when contacting support.

You can visit the CO-Z store for more products and information: [CO-Z Official Store](#)