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› Briidea RV Tankless Water Heater User Manual

briidea MK-119

Briidea RV Tankless Water Heater User Manual

Model: MK-119

1. PRODUCT OVERVIEW

The Briidea RV Tankless Water Heater (Model MK-119) is designed to provide instant and continuous hot water for recreational vehicles. This unit operates on LPG fuel and requires a 12V DC power supply. It features a high-efficiency 55,000 BTU burner and a 2.9 GPM (Gallons Per Minute) capacity, ensuring a reliable hot water supply for your RV needs.

Key features include an integrated Carbon Monoxide (CO) alarm for enhanced safety, a remote control for convenient operation, and a pressure relief valve for system protection. Its compact design and robust construction make it suitable for various RV models.



Figure 1.1: Briidea RV Tankless Water Heater unit with included CO alarm and remote control.

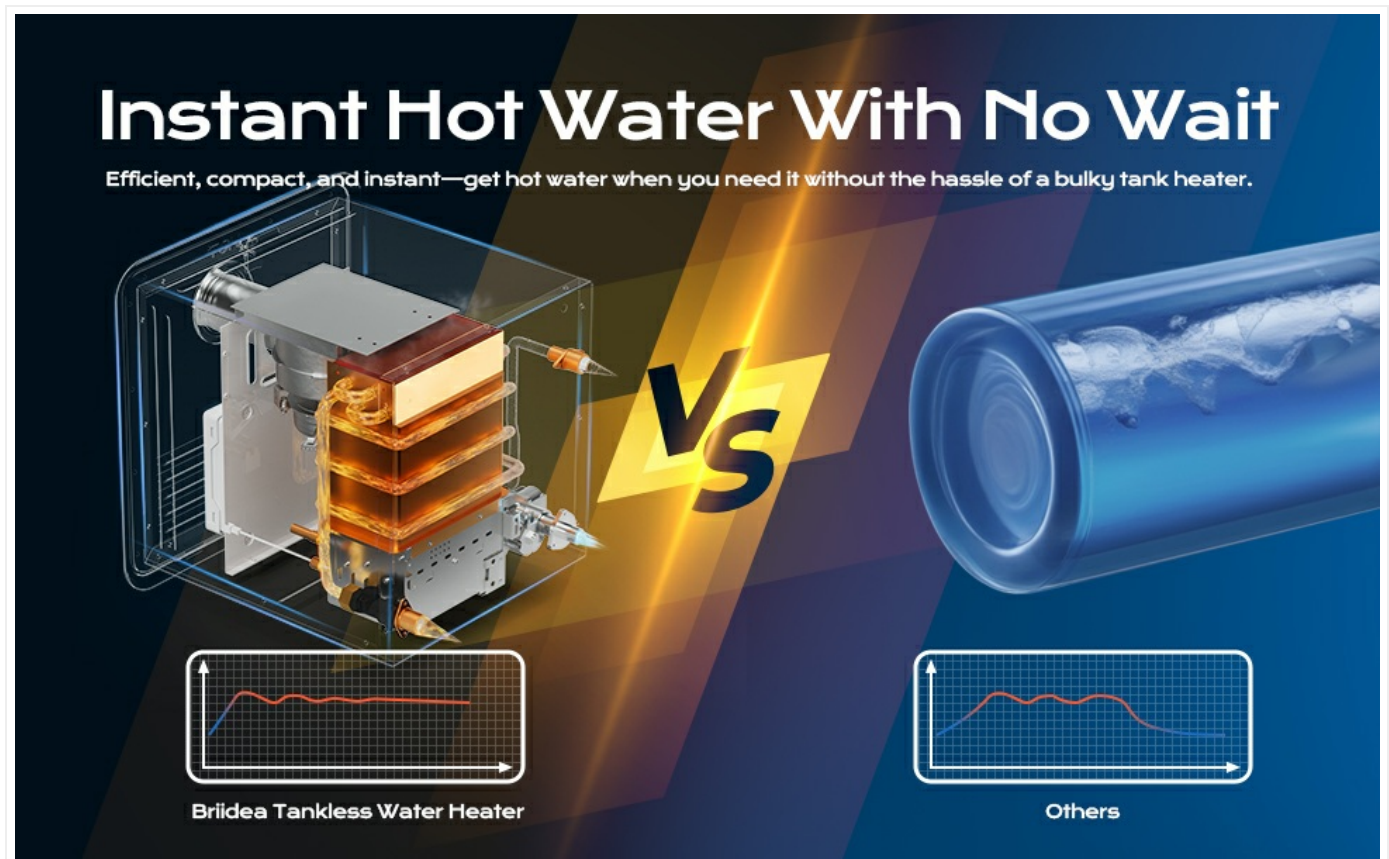


Figure 1.2: Comparison illustrating the instant hot water delivery of the tankless system versus traditional tank heaters.

2. SAFETY INFORMATION

Your safety is paramount. The Briidea RV Tankless Water Heater is equipped with multiple safety features to ensure reliable and secure operation. Always adhere to local codes and regulations during installation and operation.

- **Carbon Monoxide (CO) Alarm:** The integrated CO alarm detects carbon monoxide levels. In case of a leak, it triggers an audible alert and can automatically shut off the gas solenoid valve, providing dual safety protection against CO poisoning.
- **Forced Exhaust Fan:** A top-mounted forced exhaust fan ensures stable combustion and proper ventilation of exhaust gases.
- **Flameout Protection:** Automatically shuts off the gas supply if the flame extinguishes unexpectedly.
- **Anti-freeze Protection:** Protects the unit from damage in freezing temperatures.
- **Overheat Protection:** Prevents the water from reaching dangerously high temperatures.
- **Overpressure Protection:** A pressure relief valve is included to prevent excessive pressure buildup within the system.
- **ETL Certified:** This product is ETL certified, indicating compliance with North American safety standards.

Important: Ensure adequate ventilation around the unit and never block the exhaust or intake vents. Regularly check the CO alarm for proper function.



Figure 2.1: Overview of the comprehensive safety protections integrated into the water heater system.

3. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your water heater. It is recommended that installation be performed by a qualified professional.

3.1 Pre-installation Checks

- Verify that your RV has a suitable space for installation, matching the unit's dimensions of approximately 15 inches (W) x 15 inches (H).
- Ensure a stable 12V DC power source is available.
- Confirm access to an LPG (Liquid Propane Gas) supply line.
- Ensure proper water inlet and outlet connections are accessible.



Figure 3.1: Detailed dimensions of the water heater unit, remote control, and CO alarm for installation planning.

3.2 Installation Steps

- Mounting the Unit:** Securely mount the water heater unit in the designated compartment or exterior wall opening, ensuring it is level and stable.
- Water Connections:** Connect the water inlet and outlet lines to the corresponding ports on the unit. Ensure all connections are watertight.
- Gas Connection:** Connect the LPG supply line to the gas inlet. Use appropriate fittings and check for leaks using a gas leak detector solution.
- Electrical Wiring:** Connect the 12V DC power supply using the quick-connect wiring design. The provided installation wire length is 5.5 meters (approximately 18 feet). Connect the remote control panel and CO alarm as per the wiring diagram.
- Remote Control Panel Installation:** Install the remote LCD control panel in a convenient location inside the RV, ensuring the connection cable reaches the main unit.
- CO Alarm Installation:** Install the CO alarm in an appropriate location within the RV, following its specific

Wide Application



Suitable for any model of RV, requiring only a 12V voltage, gas, and a corresponding slot size

Figure 3.2: Wiring diagram illustrating the connections for power, water, gas, remote control, and CO alarm.

4. OPERATING INSTRUCTIONS

The Briidea RV Tankless Water Heater features a smart microcomputer control system for optimal performance and user convenience.

4.1 Initial Startup

1. Ensure all gas and water connections are secure and leak-free.
2. Open the gas supply valve.
3. Turn on the 12V DC power supply to the unit.
4. Open a hot water faucet inside your RV to allow water to flow through the heater. The unit will detect water flow and initiate the heating process.

4.2 Using the Remote Control Panel

The remote LCD control panel allows you to monitor and adjust the water heater settings from inside your RV.

- **Power On/Off:** Use the power button on the remote to turn the unit on or off.
- **Temperature Adjustment:** Adjust the desired hot water temperature within the range of 95°F to 123°F (35°C to 50°C) using the temperature control buttons. The smart system will automatically adjust operating parameters based on water volume, ambient temperature, and gas pressure to maintain the set temperature.
- **Status Monitoring:** The LCD screen displays real-time information, including:
 - Current water temperature
 - Burning status (indicating if the burner is active)
 - Spray status (indicating water flow)
 - Fan operating status

Remote Control Panel



Figure 4.1: The remote control panel allows for temperature adjustment and real-time monitoring of the water heater's status.



Figure 4.2: The microcomputer smart control system automatically optimizes performance based on environmental conditions.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your Briidea RV Tankless Water Heater. It is recommended to perform these checks periodically.

- **Exterior Cleaning:** Keep the exterior of the unit clean and free from dust and debris. Use a soft, damp cloth.
- **Ventilation Check:** Ensure that all air intake and exhaust vents are clear and unobstructed. Blockages can impair performance and pose safety risks.
- **Gas Line Inspection:** Periodically check gas connections for any signs of leaks using a soapy water solution. Bubbles indicate a leak.
- **Water Connections:** Inspect water inlet and outlet connections for leaks or corrosion.
- **CO Alarm Test:** Follow the CO alarm manufacturer's instructions for regular testing to ensure it is functioning correctly.
- **Winterization:** If operating in freezing conditions, ensure the anti-freeze protection system is active or properly drain

the unit to prevent freeze damage.

For detailed maintenance procedures or if you encounter issues beyond basic checks, consult a qualified RV technician.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your water heater. If the problem persists, contact customer support or a qualified technician.

Problem	Possible Cause	Solution
No hot water / Unit not igniting	No gas supply or low gas pressure. No 12V DC power. Water flow too low. Ignition failure.	Check LPG tank level and ensure gas valve is open. Verify 12V power connection and RV battery status. Ensure sufficient water pressure and flow. Open hot water faucet fully. If repeated ignition failures, consult a technician.
Water not hot enough	Temperature setting too low. Excessive water flow. Low gas pressure.	Increase temperature setting on the remote control. Reduce water flow at the faucet. Check LPG tank and gas supply.
CO Alarm sounds	Presence of carbon monoxide. Alarm malfunction.	Immediately ventilate the area, evacuate, and shut off gas supply. Do not re-enter until area is clear and source of CO is identified and fixed. If false alarm, check alarm battery or replace alarm.

7. SPECIFICATIONS

Attribute	Detail
Brand	briidea
Model Number	MK-119
Product Dimensions	15"W x 15"H (Unit)
Color	White
Voltage	12 Volts (DC)
Maximum Temperature	123 Degrees Fahrenheit (50°C)
BTU Rating	55,000 BTU
Flow Rate	2.9 GPM
Fuel Type	LPG (Liquid Propane Gas)
Item Weight	28.5 pounds
Country of Origin	China

Attribute	Detail
Certifications	ETL Listed

8. WARRANTY AND SUPPORT

Warranty Information: Specific warranty terms and conditions for the Briidea RV Tankless Water Heater are typically provided at the point of purchase or within separate warranty documentation included with the product. Please retain your proof of purchase for warranty claims. For detailed warranty information, please contact the seller or visit the official Briidea website.

Customer Support: If you require technical assistance, have questions about installation, operation, or maintenance, or need to report an issue, please contact Briidea customer support. Contact information can usually be found on the manufacturer's website or through the retailer where the product was purchased.

For more information, you may visit the [Briidea Store on Amazon](#).

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