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> LALAHOO RV Tankless Water Heater Instruction Manual, Model KF630003US-04YBS-001

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LALAHOO RV Tankless Water Heater Instruction Manual

Model: KF630003US-04YBS-001

Brand: LALAHOO

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your LALAHOO RV Tankless Water Heater. Please read this manual thoroughly before attempting to install or operate the unit. Keep this manual for future reference.

The LALAHOO RV Tankless Water Heater is designed to provide continuous hot water on demand for recreational vehicles. Featuring 65,000 BTU heat output and a flow rate of 3.9 GPM, it ensures ample hot water for various needs without preheating.

SAFETY INFORMATION

Your safety and the safety of others are paramount. This water heater incorporates several safety features, but proper installation and operation are crucial to prevent accidents.

- **Professional Installation Recommended:** Installation should be performed by a qualified technician familiar with RV plumbing and gas systems.
- **Ventilation:** Ensure proper ventilation around the unit as specified in the installation instructions. This unit features forced exhaust.
- **Gas Supply:** Use only Liquid Propane (LP) gas. Verify gas pressure is within the specified range of 2.80kPa.
- **Water Pressure:** Ensure applicable water pressure is between 0.01-0.75MPa.
- **Anti-Freezing Protection:** The unit includes anti-freezing protection. However, in extreme cold, additional winterization procedures may be necessary.
- **Leak Detection:** The system is equipped with leak detection. If a leak is detected, the unit may shut down automatically.
- **Flame Failure Protection:** Automatically shuts off gas supply if the flame is not detected.
- **High Water Pressure Protection:** Protects the unit from damage due to excessive water pressure.
- **Automatic Gas Shut-off:** For enhanced safety.

- **Do Not Block Openings:** Ensure all air intake and exhaust openings are clear and unobstructed.

PACKAGE CONTENTS

Carefully unpack the box and ensure all items are present and undamaged. If any items are missing or damaged, contact LALAHOO customer support immediately.



Figure 1: Included Components. The package contains the RV tankless water heater unit, a shower head, adhesive tape, a sealing strip, a rubber gasket, an air inlet nozzle, a quick terminal block, and 15 fixing screws.

- LALAHOO RV Tankless Water Heater Unit
- Shower Head (x1)
- Adhesive Tape (x1)
- Sealing Strip (x1)
- Rubber Gasket (x1)
- Air Inlet Nozzle (x1)

- Quick Terminal Block (x1)
- Fixing Screws (x15)
- Remote Control Unit
- Door (for exterior access)
- Hose and Valve (for shower set)

SPECIFICATIONS

Feature	Specification
Brand	LALAHOO
Model Number	KF630003US-04YBS-001
Product Dimensions	15"W x 15"H
Item Weight	31.8 pounds
Heat Output	65,000 British Thermal Units (BTU)
Maximum Flow Rate	3.9 Gallons Per Minute (GPM)
Maximum Temperature	123°F (50.5°C)
Voltage	12 Volts DC
Wattage	24 watts
Power Source	Liquid Propane (LP)
Rated Gas Pressure	2.80 kPa
Applicable Water Pressure	0.01-0.75 MPa
Mounting Type	Wall Mount
Special Features	Anti-Freezing Protection, Flame Failure Protection, High Water Pressure Protection, LED Display, Leak Detection
Water Inlet/Outlet Connection Size	1/2" NPT
Gas Inlet Size	1/2" NPT
Exhaust Pipe Diameter	2.36"

INSTALLATION AND SETUP

Proper installation is critical for the safe and efficient operation of your tankless water heater. It is highly recommended that a certified RV technician performs the installation.

1. Site Selection and Dimensions

Choose a location on your RV exterior that allows for the unit's dimensions and proper ventilation. The unit measures 15"W x 15"H. Ensure adequate clearance for maintenance and air circulation.



Figure 2: Installation Dimensions. The unit requires a 15" x 15" opening. The internal depth is approximately 12.6 inches. Water inlet/outlet and gas inlet connections are 1/2" NPT, and the exhaust pipe diameter is 2.36 inches.

2. Mounting the Unit

1. Prepare the mounting area by cutting a 15" x 15" opening in the RV wall.
2. Apply the sealing strip around the perimeter of the opening to ensure a watertight seal.
3. Insert the water heater into the opening.
4. Secure the unit using the provided fixing screws. Ensure the unit is level and firmly attached to the RV structure.
5. Install the exterior door, ensuring it latches securely and does not obstruct the unit's openings.

3. Plumbing Connections

Connect the water lines to the unit. The cold water inlet and hot water outlet are both 1/2" NPT connections. Use appropriate RV-grade plumbing fittings and sealants to prevent leaks.

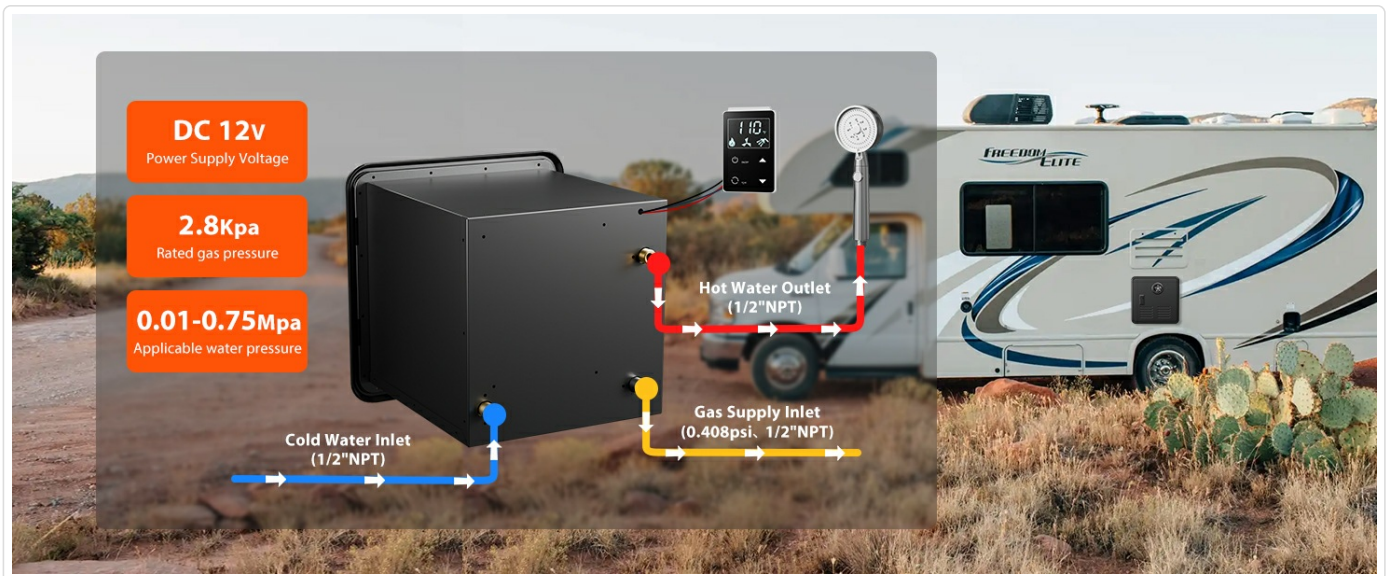


Figure 3: Connection Diagram. This diagram shows the cold water inlet (blue, 1/2" NPT), hot water outlet (red, 1/2" NPT), and gas supply inlet (yellow, 0.40psi, 1/2" NPT). The unit operates on DC 12V power with a rated gas pressure of 2.8kPa and applicable water pressure of 0.01-0.75MPa.

- Connect the cold water supply line to the designated inlet.
- Connect the hot water output line to your RV's hot water distribution system.
- Ensure all connections are tight and leak-free.

4. Gas Connection

Connect the Liquid Propane (LP) gas supply line to the 1/2" NPT gas inlet. Use gas-rated sealant tape or compound on all threaded connections. Perform a leak test on all gas connections using a soapy water solution after installation.

5. Electrical Connection

Connect the unit to a 12V DC power source. The unit requires 24 watts of power. Use the provided quick terminal block for secure electrical connections. Ensure correct polarity.

6. Remote Control Setup

Mount the remote control unit in a convenient location inside your RV. The remote allows for easy temperature adjustment and power control.

LED Clear Display

Easy to remote control



Figure 4: LED Clear Display Remote Control. The remote features a power switch, temperature adjustment buttons, and a unit switching function (e.g., Fahrenheit/Celsius).

OPERATION

Once installed and all connections are verified, you can begin operating your LALAHOO RV Tankless Water Heater.

1. Initial Startup

1. Ensure the LP gas supply is open and the water supply is turned on.
2. Open a hot water faucet in your RV to purge air from the water lines. Allow water to flow until it runs smoothly without sputtering.
3. Turn on the main power switch for the water heater, typically located on the remote control or the unit itself.
4. The unit will initiate its startup sequence, and hot water should begin flowing within seconds.

2. Temperature Control

Use the remote control to adjust the desired water temperature. The unit provides stable water temperatures from 95°F to 123°F (35°C to 50.5°C).

- Press the **Temperature Adjustment** buttons (up/down arrows) on the remote to set the desired output temperature.
- The LED display will show the current temperature setting.

3. Propane-Saving Mode

The intelligent staged combustion system automatically adjusts the flame size based on hot water demand. This feature optimizes propane consumption, especially in warmer weather conditions, without compromising performance.



Figure 5: Segmented Combustion for Energy Saving. The unit adjusts its operation based on seasonal needs, allowing for efficient temperature control and propane conservation.

4. Outdoor Shower Use

The front water outlet design allows for convenient outdoor showering. Connect the provided shower head and hose to the front outlet for external use, such as washing pets or outdoor gear.

Convenient for Outdoor Use

Front water outlet design, equipped
with shower head



Messy RV

Limited Space

Figure 6: Convenient Outdoor Use. The front water outlet and included shower set make it easy to use hot water outside your RV.

MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your LALAHOO RV Tankless Water Heater.

- **Annual Inspection:** Have a qualified technician inspect the unit annually, especially the gas connections, exhaust system, and water lines.
- **Clean Exterior:** Keep the exterior of the unit clean and free from debris. Ensure air intake and exhaust openings are not blocked.
- **Water Quality:** If operating in areas with hard water, consider installing a water softener or descaling the unit periodically to prevent mineral buildup.
- **Winterization:** In freezing temperatures, proper winterization is essential to prevent damage. Drain all water from the unit and plumbing lines, or use RV-approved antifreeze according to manufacturer instructions. The unit has anti-freeze protection, but extreme conditions may require additional measures.
- **Check for Leaks:** Periodically inspect all water and gas connections for any signs of leaks.

TROUBLESHOOTING

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

No Hot Water / Intermittent Hot Water

- **Check Gas Supply:** Ensure LP gas tank is not empty and the gas valve is fully open.
- **Check Water Supply:** Verify water supply is on and there is adequate water pressure (0.01-0.75MPa).
- **Power Supply:** Confirm the unit is receiving 12V DC power. Check fuses if necessary.
- **Air in Lines:** Purge air from water lines by opening a hot water faucet until water flows steadily.
- **Flow Rate:** Ensure the water flow rate is sufficient to activate the heater (minimum starting flow is typically low, but very low flow might not trigger it).
- **Error Codes:** Check the LED display on the remote for any error codes and refer to the specific error code guide (if provided separately or on the remote itself).

Unit Not Igniting

- **Gas Supply:** Confirm gas is flowing to the unit.
- **Igniter:** Listen for the igniter clicking sound. If no click, check electrical connections.
- **Flame Sensor:** A dirty or faulty flame sensor can prevent ignition. This typically requires professional service.

Water Temperature Fluctuations

- **Inconsistent Water Flow:** Ensure stable water pressure.
- **Mixing Hot and Cold:** Avoid mixing too much cold water at the faucet, as this can confuse the tankless heater's sensors. Adjust temperature primarily via the unit's remote.
- **Sediment Buildup:** Mineral deposits can affect performance. Consider descaling if water quality is an issue.

Gas Odor

- **IMMEDIATELY:** Turn off the gas supply at the tank.
- Ventilate the RV.
- Do not operate any electrical switches or appliances.
- Evacuate the RV and contact a qualified gas technician or emergency services.

WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please contact LALAHOO customer service. Refer to your purchase documentation for specific warranty terms and contact details.

You can typically find support information on the LALAHOO official website or through the retailer where you purchased the product.

Manufacturer: LALAHOO

Item Model Number: KF630003US-04YBS-001

