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LALAHOO WQ-RV-422

LALAHOO RV Tankless Water Heater

Model: WQ-RV-422

Instruction Manual

1. Introduction

This manual provides essential information for the safe installation, operation, and maintenance of your LALAHOO RV Tankless Water Heater, Model WQ-RV-422. This unit is designed to provide continuous hot water for recreational vehicles, offering 65,000 BTUs and a flow rate of 3.9 gallons per minute.

2. Safety Information

Read all safety warnings and instructions carefully before installing or operating this appliance. Failure to follow these instructions may result in property damage, personal injury, or death.

- The LALAHOO RV Water Heater is CSA certified, ensuring compliance with safety standards.
- Features a top-mounted forced exhaust fan for safe ventilation of combustion byproducts.
- Equipped with stable combustion technology and an automatic gas cut-off in case of accidental flame failure.
- Includes anti-freezing technology to protect the unit in cold conditions.
- Overheat Protection: Automatically shuts off if water temperature exceeds safe limits.
- Water Overpressure Protection: Prevents damage from excessive water pressure.
- Dry Combustion Protection: Prevents the unit from operating without water flow.
- Low Water Pressure Start-up: Ensures reliable operation even with reduced water pressure.

For your safety, always ensure proper ventilation and never block the unit's openings.



Figure 2.1: The LALAHOO RV Tankless Water Heater incorporates multiple safety features: maintaining fresh and safe air, low water pressure start-up, anti-freeze protection, overheat protection, protection against water leakage, water overpressure protection, and dry combustion protection.

3. Package Contents

Verify that all components are present before beginning installation:

- LALAHOO RV Tankless Water Heater Unit
- Remote Control Bracket
- Gas Piping
- Controller (LCD Display)
- Rubber Gasket
- Adhesive Tape
- Sealing Strip

- Quick Terminal Block
- Fixing Screws (x15)
- Air Inlet Nozzle
- 15 x 15 inch White Door (pre-installed or separate)



Figure 3.1: The complete package includes the main water heater unit, a remote control bracket, gas piping, a controller, rubber gaskets, adhesive tape, a sealing strip, a quick terminal block, fixing screws, and an air inlet nozzle.

4. Specifications

Feature	Specification
Model Number	WQ-RV-422
Heat Output	65,000 BTU

Flow Rate	3.9 Gallons Per Minute (GPM)
Power Source	Liquid Propane
Voltage	12 Volts (DC)
Wattage	20 KW
Temperature Range	95°F to 123°F (35°C to 50.5°C)
Material	Alloy Steel
Product Dimensions (L x W x H)	13.78 x 13.78 x 12.6 inches (35 x 35 x 32 cm)
Weight	13.74 kg
Special Features	Anti-Freezing Protection, Flame Failure Protection, Integrated Error Code Indicator, LCD Display, Overheat Protection

5. Installation (Setup)

The LALAHOO RV Tankless Water Heater is designed to be compatible with existing Suburban, Atwood, Dometic, and Girard tankless water heater cutouts. Professional installation by a qualified technician is highly recommended for gas and water connections.

5.1 Site Selection and Preparation

- Ensure the installation location provides adequate clearance for ventilation and maintenance.
- The unit requires a cutout of approximately 15 x 15 inches for the exterior door. Refer to the dimensions diagram for precise measurements.



Figure 5.1: This image provides the necessary dimensions for installation, including the unit's width (13.78 inches), height (12.60 inches), and depth, along with the required cutout size for mounting on an RV exterior.

5.2 Water Connections

- Connect the cold water inlet and hot water outlet to your RV's plumbing system. Ensure all connections are secure and leak-free.
- A built-in pressure relief valve is included; ensure it is properly installed and oriented.

5.3 Gas Connections

- Connect the provided gas hose to the unit and to your RV's liquid propane supply.
- Use appropriate thread sealant and check for gas leaks using a leak detection solution.

5.4 Electrical Connections

- Connect the unit to a 12V DC power source. Ensure correct polarity.
- Install the remote control pendant using the provided bracket and connect it to the main unit.



Figure 5.2: This image demonstrates the exterior appearance of the LALAHOO RV Tankless Water Heater when installed on an RV, highlighting its compact design and integration.

6. Operation

The LALAHOO RV Tankless Water Heater provides instant and endless hot water without preheating.

6.1 Powering On/Off

- Ensure the gas supply is open and the unit is connected to 12V DC power.
- Use the remote controller LCD display to power the unit on or off.

6.2 Temperature Adjustment

- The remote controller allows you to set the desired water temperature between 95°F and 123°F.
- The unit features temperature fluctuation elimination technology for a stable hot water supply.

6.3 Staged Combustion Technology

The staged combustion technology allows the unit to adjust the flame size based on demand, optimizing propane gas usage and ensuring efficient heating.

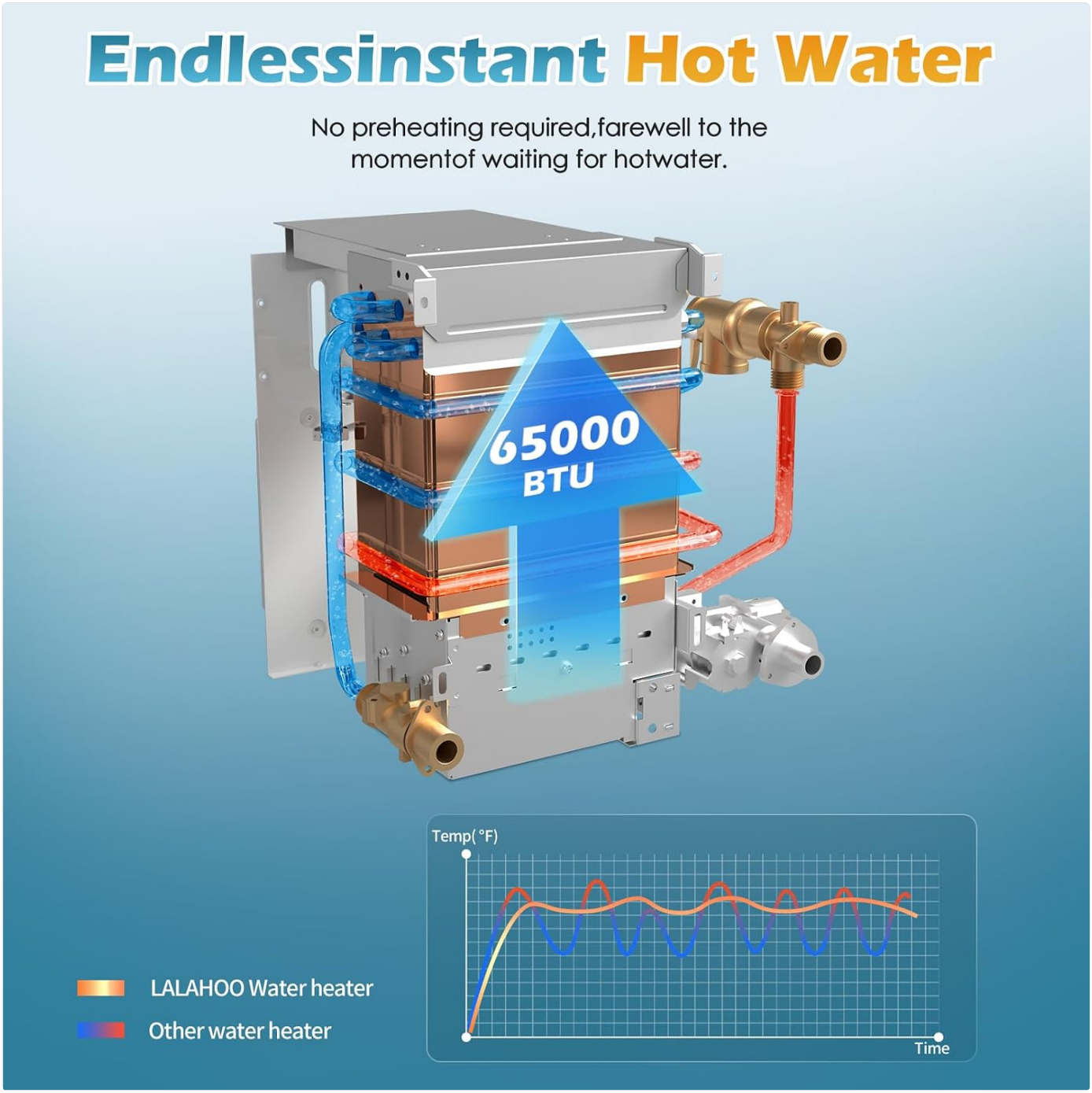


Figure 6.1: This diagram illustrates the internal flow of cold water (blue) entering the unit, being heated by the 65,000 BTU burner, and exiting as hot water (red). The efficient design ensures instant and continuous hot water.

7. Maintenance

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

- **Winterization:** Utilize the anti-freezing protection feature or properly drain the unit to prevent damage in freezing temperatures.
- **Exterior Cleaning:** Keep the exterior door and vents clear of debris and obstructions. Do not block openings.
- **Leak Checks:** Periodically inspect all water and gas connections for any signs of leaks. Address any leaks immediately.
- **Ventilation:** Ensure the exhaust fan and air inlet are clear and unobstructed for proper combustion and ventilation.

8. Troubleshooting

This section provides solutions to common issues. For complex problems, contact customer support.

- **No Hot Water / Lukewarm Water:**
  - Check if the gas supply is open and the propane tank has sufficient fuel.
  - Verify the 12V DC power connection and ensure fuses are intact (e.g., correct 10-amp fuses).
  - Ensure adequate water flow. Low water pressure can prevent the unit from activating or heating effectively.
  - Check the remote controller for any error codes.
- **Error Codes Displayed:**
  - The unit has an integrated error code indicator. Refer to the specific error code in the full user manual (if available) for diagnostic steps. Common issues might include ignition failure, overheating, or sensor malfunctions.
- **Water Leakage:**
  - Immediately shut off water and gas supply.
  - Inspect all plumbing connections for tightness. Tighten any loose fittings.
  - If an internal leak is suspected, contact a qualified technician.
- **Unit Not Powering On:**
  - Confirm the 12V DC power supply is active and connected correctly.
  - Check for blown fuses in the RV's electrical system or the unit itself.
  - If the unit is new and fails to power on, there may be an internal component issue; contact customer support.

9. Warranty and Support

For warranty information, technical support, or service inquiries, please contact LALAHOO customer service. Keep your purchase receipt and model number (WQ-RV-422) available when contacting support.

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