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LiberLive FCRSQ-MS

LiberLive RV Tankless Water Heater FCRSQ-MS User Manual

Model: FCRSQ-MS | Brand: LiberLive

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your LiberLive RV Tankless Water Heater, Model FCRSQ-MS. Please read all instructions carefully before use and retain this manual for future reference.

2. Safety Information

Your LiberLive RV Tankless Water Heater is designed with multiple safety features. Adherence to these guidelines is crucial for safe operation.

- **Overheat Protection:** Automatically shuts off if water temperature exceeds safe limits.
- **Dry Burn Protection:** Prevents operation without sufficient water flow.
- **Flame Failure Protection:** Automatically cuts off gas supply if the flame extinguishes.
- **Freeze Protection:** Protects the unit from damage in freezing temperatures.
- **Anti-Scald Protection:** Helps maintain a consistent and safe water temperature.
- **High Water Pressure Protection:** Safeguards the system against excessive water pressure.
- **Low Water Pressure Start-Up:** Ensures proper ignition only when water pressure is adequate.
- **Flue Blockage Protection:** Detects and responds to exhaust blockages.
- **Proper Ventilation:** The RV on-demand water heater must be installed in an area with proper ventilation and exhaust to ensure proper operation and prevent carbon monoxide buildup.

3. Package Contents

Verify that all items are present in your package:

- LiberLive RV Tankless Water Heater (Model FCRSQ-MS)
- Wired Remote Controller
- Showerhead Kit (includes shower head and hose)
- Installation Manual

4. Specifications

Feature	Specification
Brand	LiberLive
Model Number	FCRSQ-MS
Power Source	Propane Gas, 12 Volts (DC)
Heat Output	55,000 BTUs
Maximum Flow Rate	3.9 Gallons Per Minute (GPM)
Temperature Range	95°F - 124°F
Product Dimensions	15 x 15 x 13.5 inches
Installation Opening Size	13 x 13 inches (cut-out)
Door Size	15.9 x 15.9 inches
Water Inlet & Outlet	1/2" NPT
Gas Inlet	1/2" NPT with 5/8" NPT adapter
Certifications	CSA Certificated

5. Setup and Installation

Proper installation is critical for the performance and safety of your water heater. Refer to the included Installation Manual for detailed diagrams and step-by-step instructions. Professional installation is recommended.

5.1 Installation Requirements

- Ensure the installation area provides adequate ventilation and exhaust.
- The unit requires a 12-volt DC power connection.
- Connect to a propane gas supply.
- Water inlet and outlet connections are 1/2" NPT. The gas inlet is 1/2" NPT with a 5/8" NPT adapter.

5.2 Unit Dimensions and Placement

The water heater is designed for a 13 x 13 inch cut-out opening in your RV. The exterior door measures 15.9 x 15.9 inches, providing a wider cover for the opening.



Figure 1: RV Tankless Water Heater Installation Opening Size. The unit requires a 13x13 inch cut-out, with the exterior door measuring 15.9x15.9 inches.

5.3 Connecting Water and Gas Lines

The back of the unit features clearly marked connections for water inlet, water outlet, and gas. Ensure all connections are secure and leak-free. The electrical wires for the remote control also connect here.



Figure 2: Rear connections for water inlet, water outlet, gas, and electrical wiring.

5.4 Outdoor Shower Connection

The upgraded model includes an additional water outlet on the exterior for an outdoor shower. Simply open the door, connect the provided shower head to the quick-connect fitting, and ensure the internal valve is open.

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Video 1: Demonstrates the installation and use of the outdoor shower feature, including connecting the shower head and activating water flow.

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Video 2: Shows the process of installing the water heater into an RV and connecting the outdoor shower. This video highlights the ease of integration and the functionality of the external shower.

6. Operating Instructions

The LiberLive RV Tankless Water Heater is controlled via a wired remote display, allowing for convenient temperature adjustments and monitoring.

6.1 Remote Control Functions

The remote control features a digital display and touch buttons for various functions:

- **Power On/Off:** Activates or deactivates the unit.
- **Temperature Adjustment:** Use the up/down arrows to set your desired water temperature between 95°F and 124°F.
- **Temperature Unit Switch:** Toggle between Celsius (°C) and Fahrenheit (°F).
- **Status Indicators:** Displays combustion status, fan operation, and spray status.



Figure 3: Wired Remote Control for temperature and status monitoring.

6.2 Instant Hot Water Delivery

The 55,000 BTU heating power provides 3.9 GPM of hot water, reaching 124°F within approximately 25 seconds. The

built-in microcomputer control system ensures precise flame control and consistent water temperature, preventing overheating in summer and ensuring efficiency.

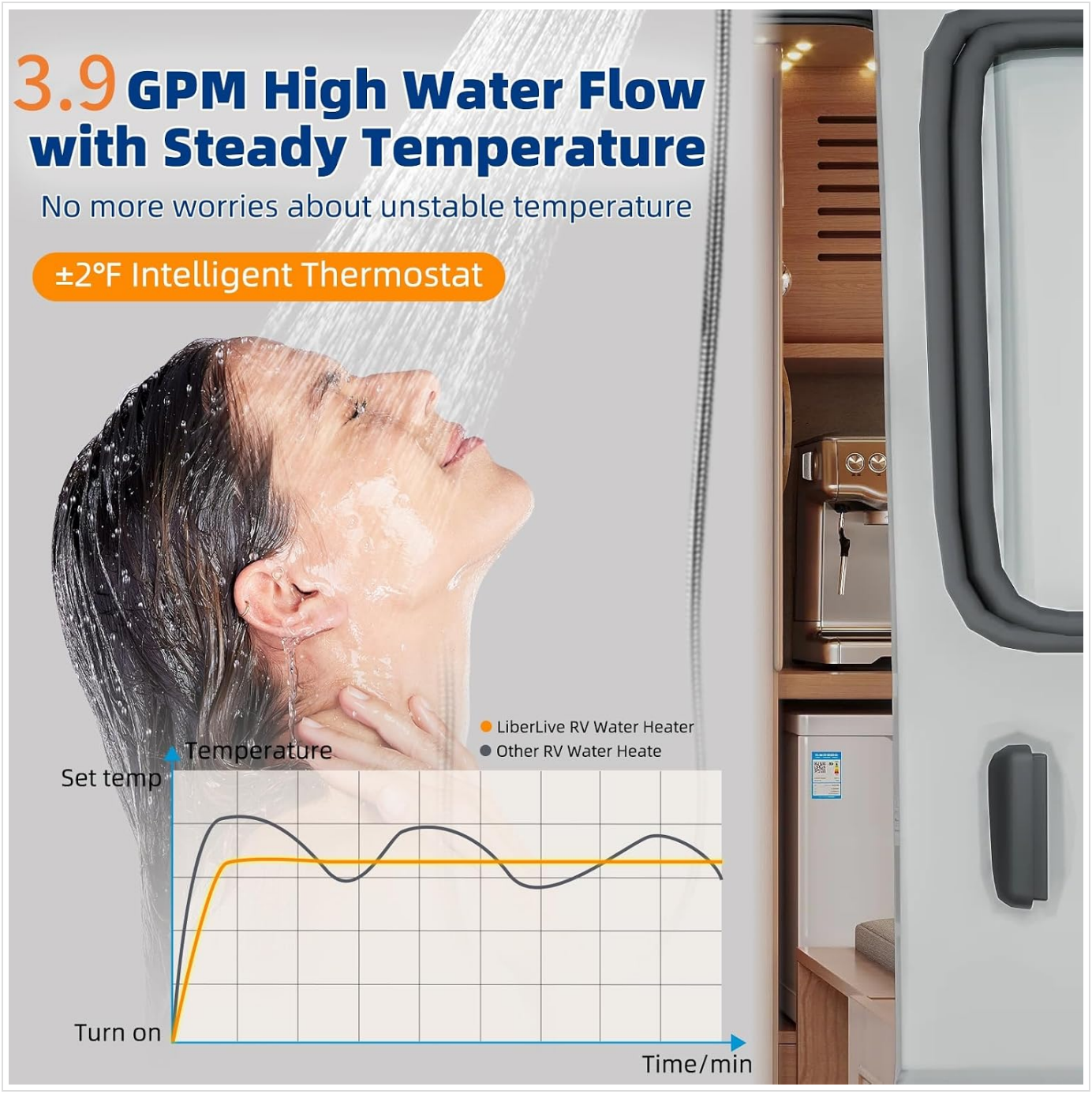


Figure 4: Temperature stability graph demonstrating consistent hot water delivery.

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Video 3: Overview of the LiberLive RV Propane Gas Tankless Water Heater, highlighting its features and benefits for RV use.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your water heater.

- **Descaling:** To descale the water heater, a separate valve kit is required. This kit is not included and must be purchased separately. Follow the descaling instructions provided with the kit.
- **Exterior Cleaning:** Keep the exterior door and vents clean and free from obstructions. Do not block openings.
- **Winterization:** Follow standard RV winterization procedures to prevent freezing damage to the water lines and the unit.

8. Troubleshooting

If you encounter issues with your water heater, refer to the following common problems and solutions:

- **No Hot Water:**
  - Check propane supply and ensure gas valve is open.
  - Verify 12V DC power supply is connected and functional.
  - Ensure water flow is adequate (minimum 0.5 GPM).
  - If hot and cold water pipes are reversed, the water heater will not respond when turned on. Correct plumbing connections.
- **Inconsistent Temperature:**
  - Check for proper water pressure.
  - Ensure the remote control temperature setting is appropriate for ambient conditions.
- **Error Codes on Remote Display:** Refer to the detailed Installation Manual for specific error code interpretations and troubleshooting steps.

9. Warranty and Support

The LiberLive RV Tankless Water Heater comes with a comprehensive**1-year warranty** that covers the entire unit. For any questions, concerns, or warranty claims, please contact our dedicated customer support team. Contact information can be found in the included Installation Manual or on the LiberLive official website.

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