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JOVJOYER TM-RV03

JOVJOYER RV Tankless Water Heater

Model: TM-RV03

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your JOVJOYER RV Tankless Water Heater, Model TM-RV03. This unit is designed to provide instant, on-demand hot water for recreational vehicles, offering a continuous supply without the need for a storage tank.
The JOVJOYER RV Tankless Water Heater delivers a constant, uninterrupted stream of hot water, eliminating the waiting time associated with traditional tank water heaters. It features high efficiency heating coils and intelligent temperature control for stable water temperature between 95°F and 123°F.

2. Safety Information

Your safety is paramount. Please read and understand all safety instructions before installation or operation. Failure to follow these instructions could result in property damage, personal injury, or death.

- **Professional Installation Recommended:** Installation should be performed by a qualified technician in accordance with all local codes and regulations.
- **Gas Safety:** Ensure all gas connections are secure and leak-free. Use appropriate gas-rated tape and sealant. Test for leaks with soapy water after installation.
- **Ventilation:** This unit features a built-in forced exhaust fan. Ensure proper ventilation is maintained around the unit.
- **Automatic Gas Shut-off:** The unit is equipped with an automatic gas shut-off in case of accidental flame failure. Do not attempt to bypass this safety feature.
- **Anti-freeze Protection:** The unit includes anti-freeze protection. However, in extreme cold, additional measures may be necessary to prevent freezing.
- **Water Pressure:** The maximum operating pressure is 120 PSI. Ensure your RV's water system operates within safe limits.



Image: Multiple Safety Protection features of the JOVJOYER RV Tankless Water Heater.

3. Package Contents

Verify that all items are present in the package:

- JOVJOYER RV Tankless Water Heater Unit
- Instruction Manual (this document)
- Wired Remote Controller
- Mounting Screws (15 pieces)

4. Specifications

Feature	Specification

Brand	JOVJOYER
Model Number	TM-RV03
Power Source	Liquid Propane
Voltage	12 Volts (DC)
Wattage	20 watts
Heat Output	55,000 British Thermal Units (BTU)
Maximum Flow Rate	2.9 Gallons Per Minute (GPM)
Maximum Temperature	123 Degrees Fahrenheit
Minimum Temperature	95 Degrees Fahrenheit
Efficiency	High Efficiency (85% heating efficiency)
Maximum Pressure	120 Pound per Square Inch (PSI)
Product Dimensions (W x H)	38.1W x 40.6H Centimetres (15.0W x 16.0H Inches)
Item Depth	15.0 Inches
Mount Type	Wall
Material	Alloy Steel
Special Features	Anti-Freezing Protection, Remote Control

5. Setup and Installation

The JOVJOYER RV Tankless Water Heater is designed for compatibility with most RVs featuring a 13" x 13" opening and a 15" x 15" door. Detailed installation instructions are provided to ensure a proper fit and function.

5.1 Pre-Installation Checks

- Ensure the installation location meets the minimum cut-out size of 13" x 13" and maximum of 13.3" x 13.3" for the unit, and a 15" x 15" door opening.
- Verify that your RV's electrical system can provide 12V DC power.
- Confirm that your RV's propane system is compatible and has sufficient supply.



Image: Unit dimensions and required cut-out for installation.

5.2 Electrical Connections

Identify the existing wiring for your previous water heater. Typically, two wires are for gas control and two for standard electric. For this unit, connect the 12V DC power supply to the designated terminals. The wired remote controller connects via its dedicated cable; polarity for the thermostat wires typically does not matter.

5.3 Gas Connections

- The heater's gas inlet is 1/2" MPT. You may require a reducer if your RV's gas line is 3/8".
- Use yellow gas-rated Teflon tape and thread sealant on all gas connections.
- After making all gas connections, perform a leak test using soapy water. Apply soapy water to all connections and check for bubbles, which indicate a leak. Tighten connections as necessary.

5.4 Water Connections

Connect the RV's water inlet and outlet lines to the heater's 1/2" MPT threads. Ensure all water connections are tight to

prevent leaks. The unit comes with a built-in pressure relief valve.

6. Operating Instructions

The JOVJOYER RV Tankless Water Heater provides instant hot water on demand. The intelligent temperature control system ensures a stable water temperature.

6.1 Initial Start-up

- Ensure the propane supply is open and the water supply is connected and turned on.
- Turn on the unit using the power button on the wired remote controller.
- Open a hot water faucet in your RV. The water heater will detect flow and initiate the heating process. It may take a few seconds for the fan and burner to start.

6.2 Temperature Control

Use the wired remote controller to set your desired water temperature between 95°F and 123°F. The unit's graded fine-tuning combustion system will maintain this temperature stably, preventing sudden fluctuations.



Image: Intelligent Wired Remote Controller for temperature adjustment.

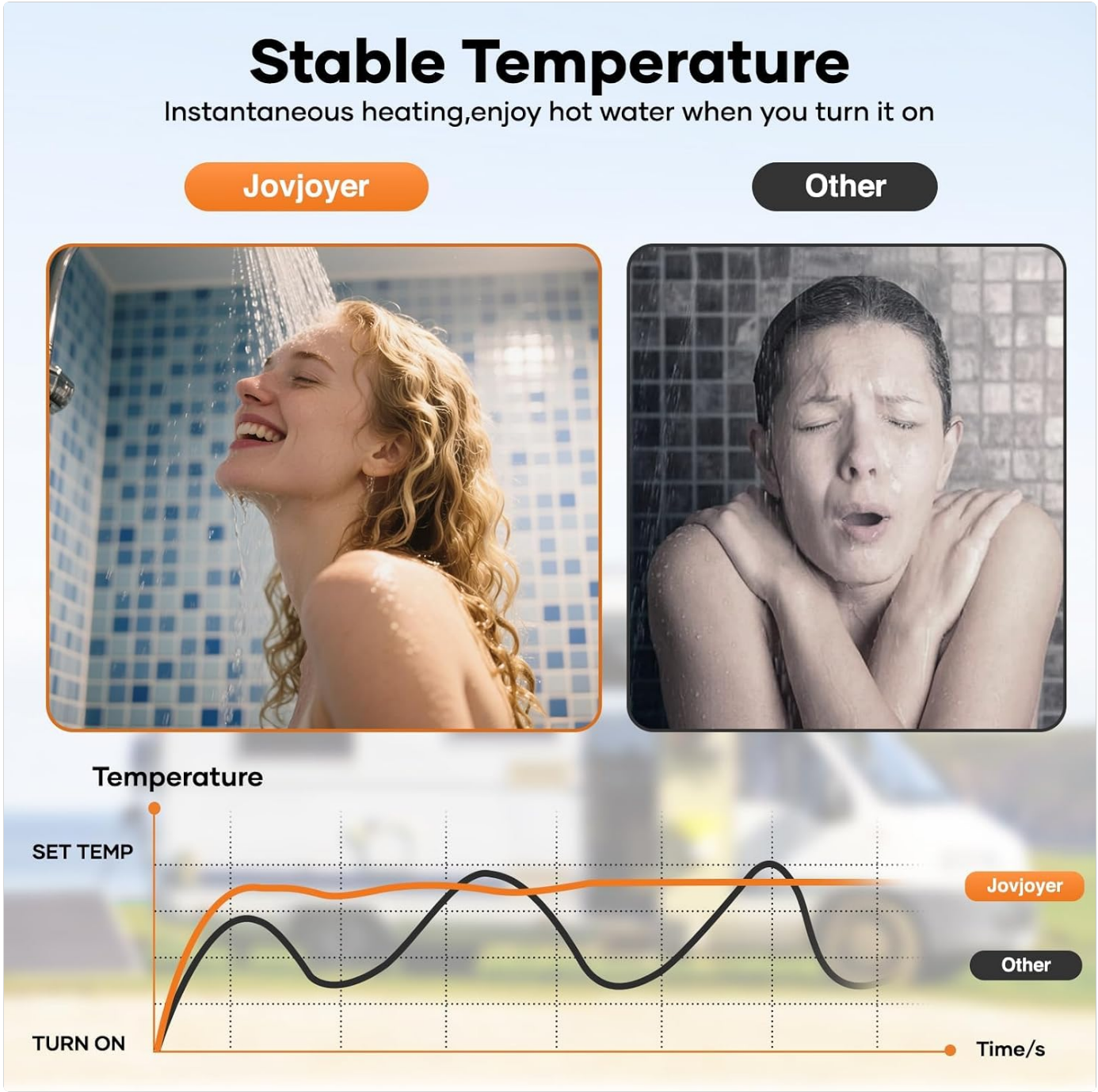


Image: Stable Temperature performance comparison.

6.3 High Altitude Operation

The JOVJOYER RV Tankless Water Heater is designed to operate efficiently at altitudes up to 9800 feet, ensuring reliable hot water even in mountainous regions.

6.4 Staged Combustion Technology

The unit utilizes staged combustion technology to optimize fuel consumption. This allows for lower consumption in warmer conditions and complete combustion in colder conditions, enhancing efficiency.



Image: Staged Combustion Technology for optimized fuel use.

7. Maintenance

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

- **Winterization:** The unit has built-in anti-freeze protection. However, for prolonged storage in freezing temperatures, it is recommended to drain the water system completely or use RV-specific antifreeze to prevent damage.
- **Exterior Cleaning:** Keep the exterior of the unit clean and free from obstructions. Ensure the exhaust fan area is clear.
- **Gas Line Inspection:** Periodically inspect gas lines and connections for any signs of wear or leaks.
- **Water Inlet Filter:** Check and clean the water inlet filter if present, to prevent sediment buildup.

8. Troubleshooting

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

Problem	Possible Cause	Solution
No hot water / Unit not firing	No water flow detected, no gas supply, low water pressure, power issue, error code displayed.	Ensure water faucet is fully open. Check propane tank level and valve. Verify 12V DC power supply. Check for error codes on the remote controller. Ensure water pressure is adequate.
Water temperature fluctuates	Inconsistent water flow, external factors affecting water temperature.	Ensure consistent water flow. The unit is designed for stable temperature, but extreme changes in incoming water temperature or flow can affect performance.
Water leaks	Loose water connections, damaged seals, internal component issue.	Inspect all water inlet and outlet connections for tightness. If leaks persist or appear internal, contact customer support.
Gas smell	Gas leak.	**Immediately turn off propane supply.** Ventilate the area. Do not operate any electrical switches or open flames. Perform a leak test with soapy water on all gas connections. If unable to locate or fix the leak, evacuate and contact emergency services and a qualified technician.

If an error code is displayed on the remote controller or if troubleshooting steps do not resolve the issue, please contact JOVJOYER customer support for assistance.

9. Warranty and Customer Support

JOVJOYER stands by its product with a generous**2-year after-sales service**, providing peace of mind for your purchase. For any questions, technical assistance, or warranty claims, please contact our responsive after-sales team. Our customer support is available 24/7 to assist you.
Refer to your purchase documentation for specific contact details or visit the official JOVJOYER website.

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