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JOVJOYER TM-RV03

JOVJOYER RV Tankless Water Heater

Model: TM-RV03

Brand: JOVJOYER

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. Please read all instructions carefully before use to ensure proper function and longevity of the unit.



The JOVJOYER RV Tankless Water Heater, featuring a sleek black exterior, is shown with its wired remote control and an external shower head attachment. This image provides a comprehensive view of the main product components.

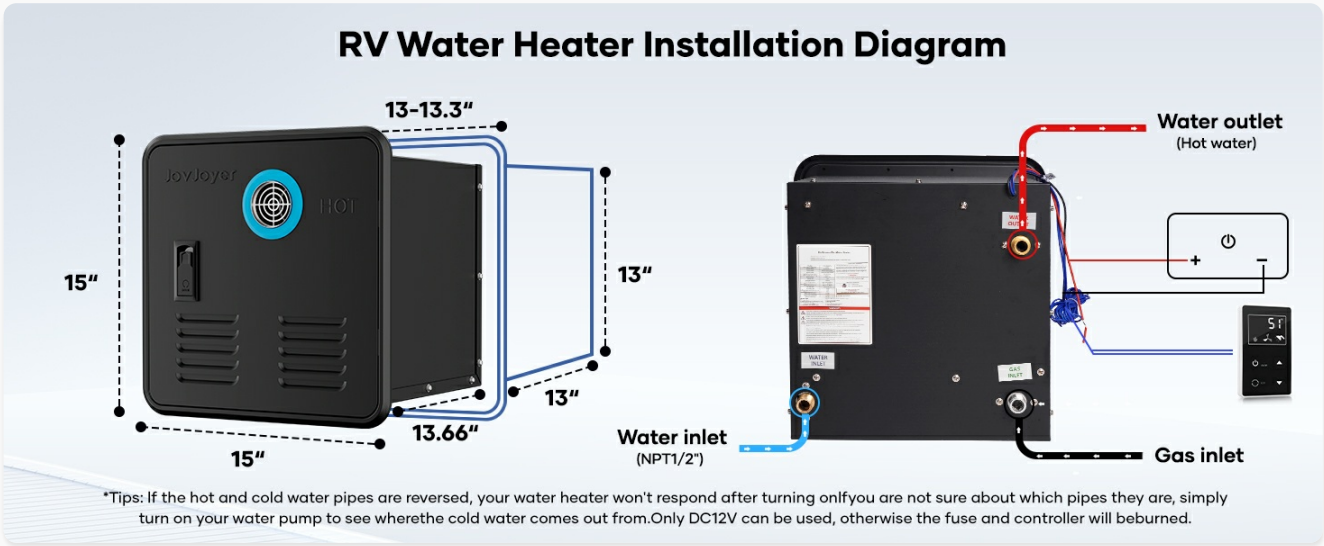
2. Safety Information

WARNING: Failure to follow these safety instructions could result in fire, explosion, electric shock, property damage, personal injury, or death.

Your JOVJOYER RV Tankless Water Heater is CSA certified, ensuring high standards of safety and reliability. It incorporates multiple protective features for user safety:

- Built-in forced exhaust fan for safe ventilation.
- Stable combustion system.
- Automatic gas shut-off in case of accidental flame failure.
- Anti-freeze protection to prevent damage in cold conditions.

Additionally, the unit includes 9 comprehensive safety protections:



An infographic displaying nine distinct icons, each representing a safety protection feature of the water heater, including power wires reverse protection, flame monitoring, hot water temperature monitoring, and anti-freeze function.

- Power wires reverse protection
- Flame monitoring device
- Hot water temperature monitoring
- Temperature fluctuation eliminator
- Over-current protection
- Anti-freeze function
- Over pressure protection
- Low/over-voltage shutdown
- Flue fan monitoring

3. Package Contents

Please verify that all items are present and undamaged upon unpacking:

- RV Tankless Water Heater Unit (1)
- Wired Remote Controller (1)
- Instruction Manual (1)
- Mounting Screws (15)
- Pressure Relief Valve (Built-in)

4. Specifications

Feature	Specification
Brand	JOVJOYER
Model Number	TM-RV03
Product Dimensions	15"W x 16"H
Color	55000 BTU Black
Voltage	12 Volts (DC)

Maximum Flow Rate	2.9 Gallons Per Minute
Maximum Temperature	123 Degrees Fahrenheit
Heat Output	55000 British Thermal Units
Efficiency	High Efficiency
Mounting Type	Wall
Item Weight	27.7 pounds

5. Installation

The RV tankless water heater is designed for installation in most RVs with a 13" x 13" opening and a 15" x 15" door. Ensure you have the correct cut-out size before proceeding.



A diagram illustrating the precise dimensions for installing the RV tankless water heater. It highlights the minimum cut-out size of 13 inches by 13 inches and the overall door size of 15 inches by 15 inches, crucial for proper fitment.

5.1. Step-by-Step Installation Guide

1. **Unpack and Inspect:** Carefully unpack the water heater and all accessories. Remove the front door of the water heater.
2. **Mount the Unit:** Place the water heater into the pre-cut mounting hole in your RV.
3. **Prepare Water Connections:** Wrap PTFE tape around the threads of both the water inlet and water outlet connections on the unit to ensure a watertight seal.
4. **Install Water Pipes:** Connect the inlet and outlet water pipes to the corresponding ports on the water heater.
5. **Install Gas Line:** Connect the gas line to the gas inlet. After connection, test for gas leaks using soapy water. Apply soapy water to all gas connections; the appearance of bubbles indicates a leak that must be addressed immediately.
6. **Connect Power Supply:** Connect the power supply wires. The red wire is positive (+) and the black wire is negative (-). Use a DC 12V power supply only. Secure connections with electrical tape.
7. **Connect Wall Controller:** Connect the wall controller wires. Polarity does not matter for these connections; either blue wire can be used for either connection. Secure connections with electrical tape.
8. **Secure the Unit:** Tighten the RV water heater with the provided screws around the perimeter of the unit.
9. **Reinstall Door and Seal:** Put the RV water heater door back in place. Apply sealant or glue around the edge joints of the water heater door to ensure a weather-tight seal.

A detailed diagram outlining the electrical and plumbing connections for the RV water heater. It clearly labels the water inlet, water outlet, gas inlet, and the wiring for the 12V DC power supply and the remote controller.

5.2. Installation Video Guide

For a visual walkthrough of the installation process, please refer to the video below:

Your browser does not support the video tag.

This video demonstrates the step-by-step installation process for the RV Tankless Water Heater, including unpacking, mounting, connecting water and gas lines, electrical wiring, and final checks. It provides visual guidance for a successful setup.

6. Operation

The JOVJOYER RV Tankless Water Heater provides instant, on-demand hot water, eliminating the need for a storage tank and ensuring a continuous supply.

6.1. Key Features

- **Instant Hot Water:** Enjoy unlimited hot water without waiting for a tank to reheat.
- **High Power Output:** With 55,000 BTU and a 2.9 GPM flow rate, it delivers a consistent and generous supply of hot water.
- **Accurate Temperature Control:** Maintains water temperature within a precise range of 95°F-123°F, preventing scalding and ensuring comfort.
- **Energy Efficient:** Operates only when hot water is needed, reducing propane consumption and emissions.

6.2. Remote Controller Functions

The intelligent wired remote controller allows for easy adjustment of settings:



A close-up view of the wired remote controller, showing its digital display and buttons for power, temperature adjustment (up/down), and switching between Fahrenheit and Celsius. The display currently shows '51' degrees.

- **Power Button:** Turns the unit on or off.
- **Temperature Up Button:** Increases the desired water temperature.
- **Temperature Down Button:** Decreases the desired water temperature.
- **Fahrenheit/Celsius Switch Button:** Toggles the temperature display between Fahrenheit (°F) and Celsius (°C).

7. Maintenance

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

- **Annual Inspection:** Have a qualified technician inspect the unit annually, especially the gas connections, exhaust system, and water lines.
- **Clean Exterior:** Periodically clean the exterior of the unit and the door with a soft, damp cloth.
- **Check for Leaks:** Regularly inspect all water and gas connections for any signs of leaks. For gas connections, use soapy water to detect bubbles.

- **Winterization:** If operating in freezing temperatures, ensure the anti-freeze protection system is functioning correctly or follow proper winterization procedures for your RV to prevent water line damage.

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 or insufficient hot water	Low water flow, gas supply issue, power supply issue, incorrect temperature setting.	Check water pressure and flow rate. Ensure propane tank is not empty and gas valve is open. Verify 12V DC power connection. Adjust temperature setting on the remote controller.
Error Code E5 displayed	Specific internal fault (refer to detailed error code section in full manual if available).	Turn off the unit, wait a few minutes, then restart. If the error persists, contact customer support.
Water or gas leaks	Loose connections, damaged seals or pipes.	Immediately shut off water and gas supply. Inspect all connections for tightness. Re-tape or replace seals/pipes as necessary. Use soapy water to confirm gas leak resolution. If leaks persist, contact a qualified technician.
Unit does not power on	No 12V DC power, incorrect wiring, faulty remote controller.	Check 12V DC power source and fuse. Verify power supply wire connections (red to positive, black to negative). Ensure remote controller cable is securely connected.

For issues not covered here or if problems persist, please contact JOVJOYER customer support.

9. Warranty and Support

Your JOVJOYER RV Tankless Water Heater comes with a manufacturer's warranty. Please refer to the warranty card included with your product for specific terms, conditions, and duration.
For technical assistance, troubleshooting, or warranty claims, please contact JOVJOYER customer support through the contact information provided on your warranty card or the official JOVJOYER website.

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