

VEVOR TM-RV03-2B

VEVOR RV Tankless Water Heater User Manual

Model: TM-RV03-2B

1. INTRODUCTION

Thank you for choosing the VEVOR RV Tankless Water Heater. This manual provides essential information for the safe and efficient operation, installation, and maintenance of your new water heater. Please read this manual thoroughly before installation and use, and retain it for future reference.

This tankless water heater is designed to provide instant hot water for your RV, offering high efficiency and convenience for showering, dishwashing, and other hot water needs on the go.

2. SAFETY INSTRUCTIONS

WARNING: Failure to follow these instructions could result in property damage, serious injury, or death.

- Installation must be performed by a qualified professional in accordance with all local codes and regulations.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Ensure adequate ventilation. This appliance consumes oxygen and produces combustion byproducts.
- Before performing any maintenance or service, disconnect all power to the unit and shut off the gas supply.
- Do not operate the water heater if any part has been submerged in water.
- Regularly inspect gas connections for leaks using a non-corrosive leak detection solution.
- Protect the unit from freezing temperatures. Drain the unit if it will be exposed to freezing conditions.
- Keep children and pets away from the appliance during operation.

3. PRODUCT OVERVIEW

The VEVOR RV Tankless Water Heater is designed for optimal performance and convenience in mobile

environments. Key features include:

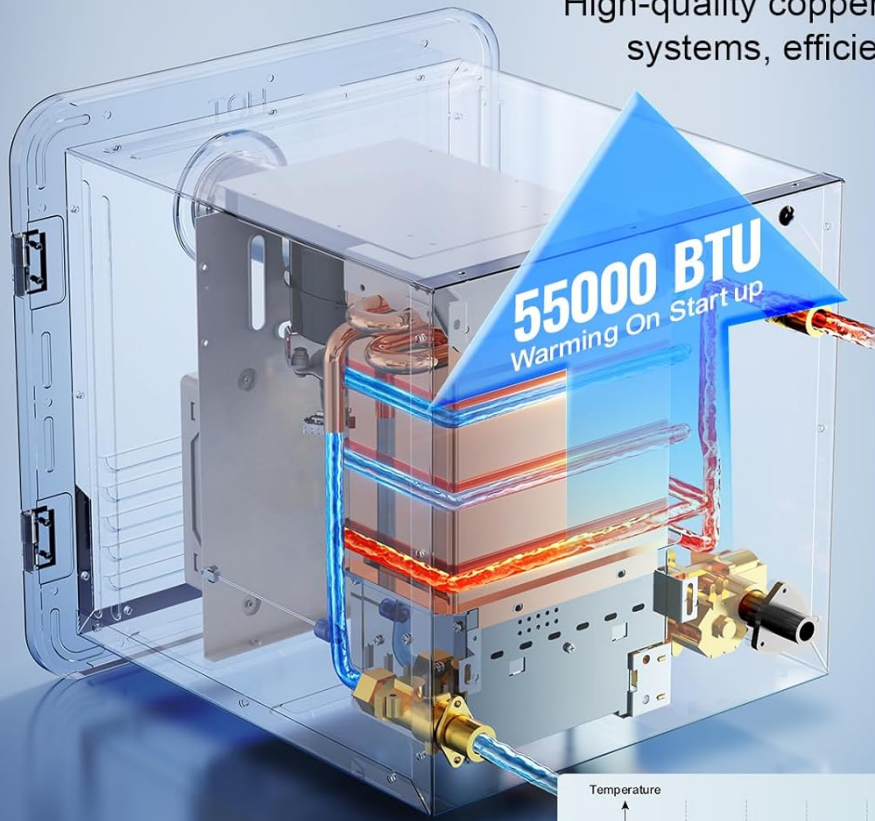
- **Rapid Instant Heating:** 55000 BTU high power for quick hot water delivery.
- **All-Season Use:** Segmented combustion technology adjusts water temperature based on seasonal changes for year-round comfort and energy efficiency.
- **Convenient Control:** LED smart display and touch controls for easy temperature adjustment and power management.
- **Efficient Heat Dissipation:** Equipped with a high-performance fan for rapid gas expulsion and extended unit lifespan.
- **RV Compatibility:** Designed with standard RV door and connection sizes for broad compatibility.



Figure 3.1: VEVOR RV Tankless Water Heater with its remote control unit, showcasing the main black exterior door and the digital display of the remote.

EFFICIENT INSTANT HEATING SAY GOODBYE TO COLD SHOWERS

High-quality copper pipe water systems, efficient and safe



-  Vevor Rv water heater
-  Other Rv water heater

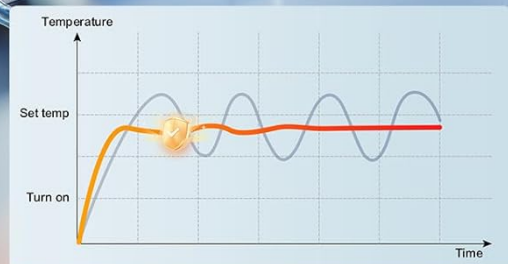


Figure 3.2: Diagram illustrating the internal components and water flow path within the VEVOR RV Tankless Water Heater, highlighting the 55000 BTU heating capability and copper pipe system.

SEGMENTED COMBUSTION: FLEXIBLE USE FOR WINTER AND SUMMER

Easy Temperature Adjustment: Energy-Saving and Cost-Effective



WINTER

Full combustion for direct hot water supply



SUMMER

Low energy consumption to prevent excessive water temperatures

Figure 3.3: Visual representation of the segmented combustion technology, showing full combustion for winter and low energy consumption for summer to prevent excessive water temperatures.

LED CLEAR DISPLAY

Easy In-Car Remote Control



Figure 3.4: Image demonstrating the LED clear display and the remote control unit, highlighting its power switch, unit switching, and temperature adjustment functions.

HIGH-PERFORMANCE FAN

Rapid Heat Dissipation



Figure 3.5: Illustration of the high-performance fan within the unit, emphasizing its role in rapid heat dissipation and expelling gases.

4. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your VEVOR RV Tankless Water Heater. It is highly recommended that installation be performed by a certified professional.

4.1 Pre-Installation Checks

- Verify that the installation location meets all clearance requirements and is suitable for a gas appliance.
- Ensure the RV's electrical system can support a DC 12V appliance.
- Confirm that the gas supply (LPG) is compatible and properly regulated.

4.2 Dimensions and Connections

The unit is designed to fit common RV cutouts. Refer to the dimensions below for proper fitting:

- **Door Size:** 15 x 15 inches (380 x 380 mm)
- **Rear Chamber Size:** 12.6 x 12.6 x 14 inches (320 x 320 x 358 mm)
- **Water Inlet/Outlet Connection:** 1/2" NPT
- **Gas Inlet Size:** 1/2" NPT
- **Exhaust Pipe Diameter:** ϕ 2.36 inches (60 mm)



Figure 4.1: Detailed dimensions and connection specifications for the VEVOR RV Tankless Water Heater, including door size, rear chamber, water/gas inlets, and exhaust pipe diameter.

4.3 Installation Steps (Summary)

1. Prepare the mounting location, ensuring it is level and secure.
2. Mount the unit securely into the RV cutout.
3. Connect the water inlet and outlet lines. Ensure all connections are watertight.
4. Connect the gas supply line. Perform a leak test on all gas connections.

5. Connect the DC 12V power supply.
6. Install the exhaust pipe, ensuring proper venting to the outside.
7. Test the unit for proper operation before final sealing.

Refer to the detailed installation guide provided with your product packaging for comprehensive instructions.

5. OPERATING INSTRUCTIONS

The VEVOR RV Tankless Water Heater features an intuitive LED smart display and touch controls for easy operation.

5.1 Initial Startup

1. Ensure all water and gas connections are secure and leak-free.
2. Open the water supply valve to the unit.
3. Purge air from the water lines by opening a hot water faucet until water flows steadily.
4. Turn on the gas supply to the unit.
5. Connect the DC 12V power supply.

5.2 Using the Remote Controller

The remote controller allows you to manage the water heater's functions from inside your RV.

- **Power On/Off:** Press the power button to turn the unit on or off.
- **Temperature Adjustment:** Use the up/down arrows to set your desired water temperature. The LED display will show the current and set temperatures.
- **Unit Switching:** Switch between Fahrenheit (°F) and Celsius (°C) display units as desired.
- **Mode Selection:** The unit automatically adjusts its heating performance based on the segmented combustion technology for optimal efficiency in different seasons.

When a hot water faucet is opened, the unit will automatically ignite and begin heating water to the set temperature. When the faucet is closed, the unit will shut down.

6. MAINTENANCE

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

6.1 Annual Maintenance

- **Descaling:** Depending on water hardness, periodically descale the heat exchanger to remove mineral buildup. This typically involves circulating a vinegar or descaling solution through the unit.
- **Inspect Gas Connections:** Check all gas connections for leaks and ensure they are secure.
- **Clean Air Intake/Exhaust:** Ensure the air intake and exhaust vents are clear of obstructions and debris. The high-performance fan helps with efficient gas expulsion, but external vents should be kept clean.
- **Inspect Water Connections:** Check for any signs of leaks or corrosion on water inlet and outlet connections.

6.2 Winterization (Freeze Protection)

If the RV will be exposed to freezing temperatures, it is essential to properly winterize the water heater to prevent damage.

1. Turn off the gas supply and disconnect the power to the unit.
2. Drain all water from the unit by opening the drain valves and hot water faucets.
3. Use compressed air to blow out any remaining water from the lines, or introduce RV-specific non-toxic antifreeze into the system.
4. Ensure the unit is completely dry before storing in freezing conditions.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter. For problems not listed here, please contact customer support.

Problem	Possible Cause	Solution
No hot water / Unit not igniting	No gas supply, low water flow, power issue, igniter malfunction.	Check gas valve, ensure adequate water pressure (min. 2.8 L/min), verify 12V power, contact service if igniter fails.
Water not hot enough	Temperature setting too low, excessive water flow, mineral buildup.	Increase temperature setting on remote, reduce water flow at faucet, descale unit.
Unit cycles on and off rapidly	Insufficient water flow, air in lines, overheating.	Ensure stable water flow, purge air from lines, check for obstructions in exhaust/intake.
Error code on display	Specific system fault.	Refer to the detailed error code list in the full product manual (if available) or contact VEVOR customer support.

8. SPECIFICATIONS

Below are the technical specifications for the VEVOR RV Tankless Water Heater (Model: TM-RV03-2B).



Figure 8.1: Detailed product parameters including dimensions, heat output, and electrical requirements.

Parameter	Value
Brand	VEVOR
Model Number	TM-RV03-2B
Heat Output	55,000 BTU
Water Pressure Range	14.5 - 100 psi
Minimum Starting Flow Rate	2.8 L/min
Power Supply Voltage	DC 12V
Net Weight	25.79 lbs / 11.7 kg
Product Dimensions (W x H x D)	15 x 15 x 14 inches / 380 x 380 x 358 mm (depth excluding fittings)
Color	Black

Parameter	Value
Special Feature	Energy-saving
Efficiency	High Efficiency

9. WARRANTY AND SUPPORT

Specific warranty details for your VEVOR RV Tankless Water Heater may vary by region and purchase point. Please refer to the warranty card included with your product or visit the official VEVOR website for the most up-to-date warranty information.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact VEVOR customer service:

- **Website:** www.vevor.com
- **Email:** Refer to VEVOR website for contact email.
- **Phone:** Refer to VEVOR website for contact phone number.

When contacting support, please have your product model number (TM-RV03-2B) and purchase date available.