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Ranein 0801c601-c3a0-4357-a820-abc5f8937a17

Ranein 65,000 BTU RV Tankless Water Heater Instruction Manual

Model: 0801c601-c3a0-4357-a820-abc5f8937a17

1. INTRODUCTION

This manual provides essential information for the safe installation, operation, and maintenance of your Ranein 65,000 BTU RV Tankless Water Heater. Please read all instructions carefully before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

Your Ranein RV Tankless Water Heater is CSA Certificated, indicating it meets recognized safety standards. Adhere to the following safety guidelines:

- **Professional Installation:** Installation should be performed by a qualified technician in accordance with all local codes and the manufacturer's instructions.
- **Gas Safety:** Ensure proper ventilation and check for gas leaks after installation. The unit features an automatic gas shut-off in case of accidental flame failure.
- **Electrical Safety:** Connect to a 12V power supply as specified. Ensure all electrical connections are secure and correctly wired.
- **Water Pressure:** The unit includes a built-in pressure relief valve to manage excessive water pressure. Do not tamper with this valve.
- **Anti-freeze Protection:** The integrated anti-freeze device automatically activates when temperatures fall below 42.8°F (6°C) to prevent freezing damage.
- **Ventilation:** Ensure the forced exhaust fan and all vents are clear and unobstructed for stable combustion.

3. PRODUCT FEATURES

The Ranein RV Tankless Water Heater offers advanced features for reliable hot water supply:

- **High Capacity Heating:** Provides up to 3.9 GPM (Gallons Per Minute) of hot water with 65,000 BTU power.
- **Constant Temperature Chamber:** Maintains a steady water temperature between 95°F and 124°F, preventing temperature fluctuations during use.
- **Multi-function Remote Control:** Allows monitoring of gas usage, voltage, GPM, anti-freeze device status, and activation of high altitude mode.
- **High Altitude Operation:** Capable of operating effectively at altitudes up to 9,800 feet.
- **Staged Combustion Technology:** Optimizes flame intensity based on demand, preventing overheating in warmer conditions and conserving propane.
- **Durable Design:** Low noise operation and good vibration resistance suitable for RV environments.

Why Choose Us

Strongest Heating **65.000** BTU

Hot Water Mixing Tank



Altitude Switching



Display Consumption



Intelligent Temperature Control



Figure 1: Key features of the Ranein RV Tankless Water Heater.

Like a Waterfall of Hot Water

65,000 BTU

3.9 GPM
MAX

±1°F
Variations

Figure 2: Performance specifications including BTU, GPM, and temperature stability.

Constant Temperature Chamber

It keeps the water heater from experiencing temperature changes due to rapid switching on and off.

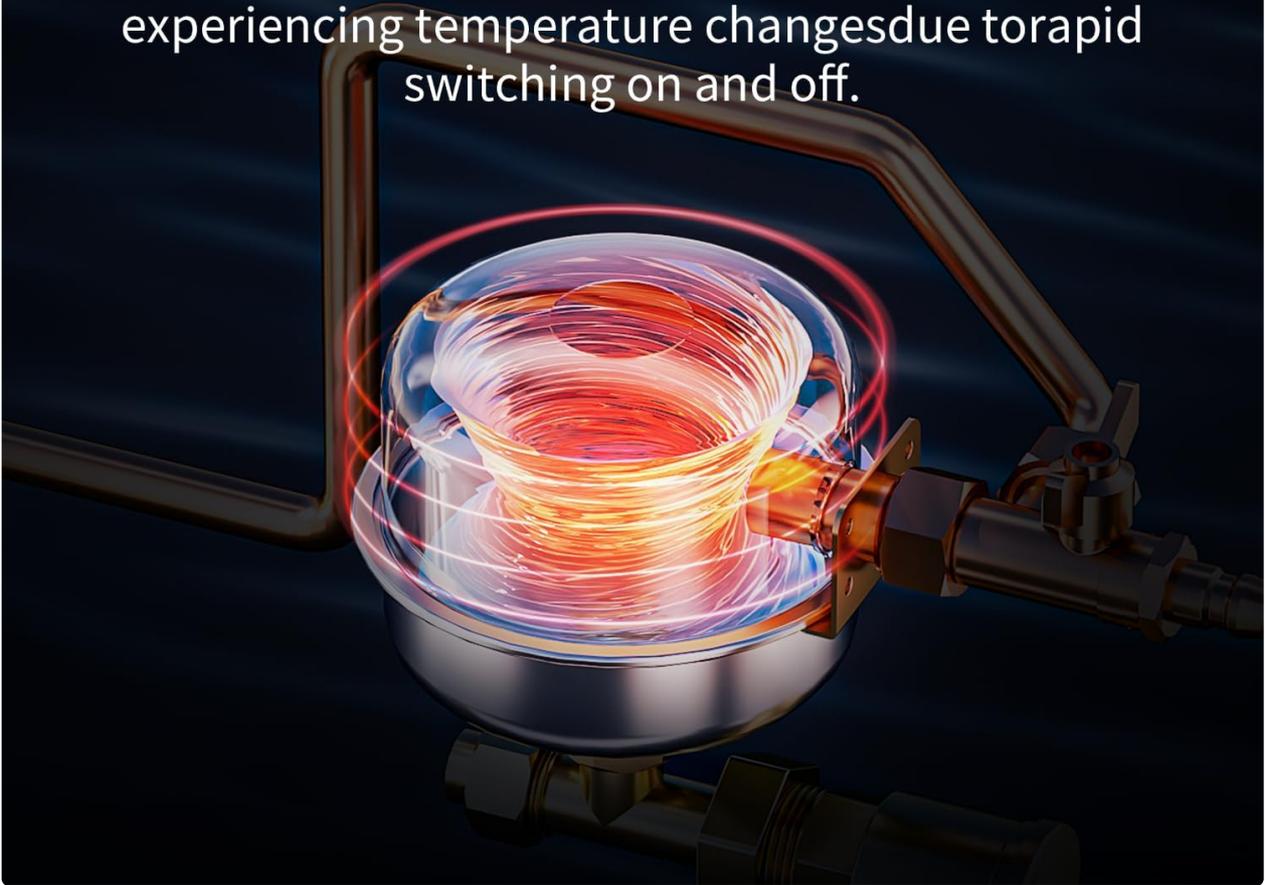


Figure 3: Internal view of the Constant Temperature Chamber.

4. INSTALLATION GUIDE

Proper installation is critical for the safe and efficient operation of your water heater.

4.1 Opening Size and Replacement

The Ranein RV Tankless Water Heater is designed to fit a 17 x 17 inch opening and comes with an 18 x 18 inch door. It is an ideal replacement for 10/12 gallon tank water heaters and other tankless models.

Pay Attention to The Opening Size



Figure 4: Required opening dimensions for installation.

The Effect of Paring With a 18 x 18 Door



Ideal replacement for Suburban, Atwood & Dometic
10/12 gallon tank water heater
Ideal replacement for other **Tankless Water Heaters**

Figure 5: The water heater unit and its 18x18 inch door, suitable for replacing common RV water heaters.

4.2 Physical Dimensions and Connections

Refer to the diagram below for the unit's dimensions and connection points for power, gas, cold water inlet, and hot water outlet.

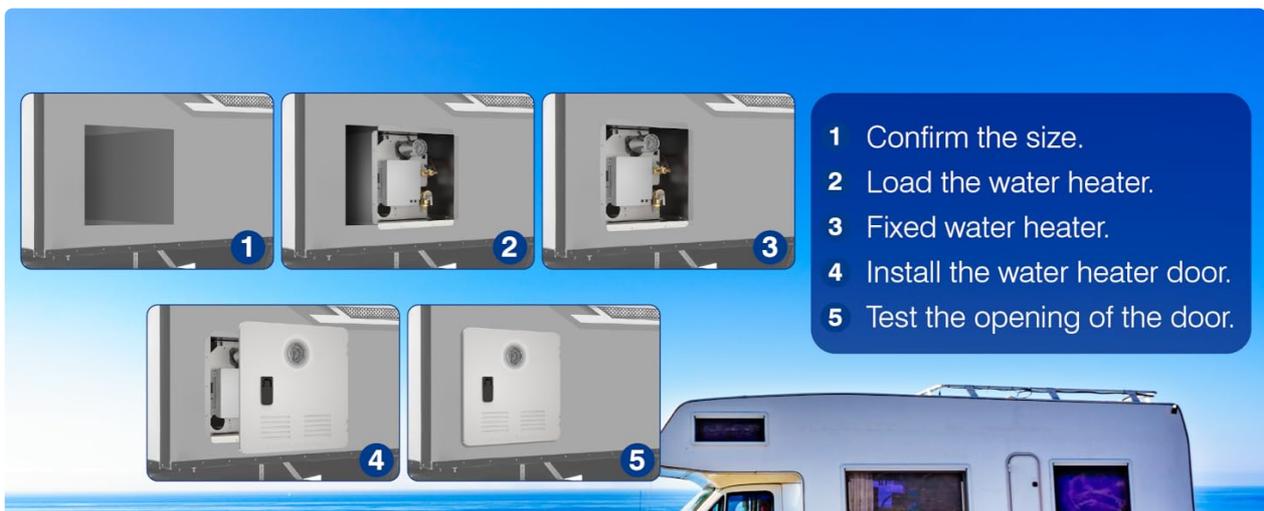


Figure 6: Water heater dimensions and connection points. Ensure hot and cold pipes are not reversed.

4.3 Installation Steps

1. **Confirm the size:** Verify the RV opening matches the required dimensions (17" x 17").
2. **Load the water heater:** Carefully slide the water heater unit into the prepared opening.
3. **Fixed water heater:** Secure the unit in place according to manufacturer guidelines.
4. **Install the water heater door:** Attach the 18" x 18" black door.
5. **Test the opening of the door:** Ensure the door opens and closes freely and securely.

Ideal Replacement Door Size

The visual guide displays two door sizes: a 15" x 15" door and a 15" x 18" door. The 15" x 15" door is associated with a table listing Suburban models for 4 and 6 Gallon units. The 15" x 18" door is associated with a table listing Suburban, Atwood, and Dometic models for 6 Gallon units. A large table on the right lists various models for 9, 10, 12, and 16 Gallon units, all associated with the Suburban brand.

Brand	Capital	Model
Dometic	9 Gallon	WH-9GEA
		WH-10GEA
Atwood	10 Gallon	GC10A-4E-10
		SW10D(5142A/F)
Suburban	10 Gallon	SW10DE(5143A/F)
		SW10DEL(5144A/F)
	12 Gallon	SW10DEC(5228A/F)
		SE10DEL(5230A/F)
	16 Gallon	SW12D(5146A/F)
		SW12DE(5147A/F)
		SW12DEL(5148A/F)
		SW12DEC(5229A/F)
		SW12DEL(5231A/F)
		SW16D(5150A)
16 Gallon	SW16DE(5151A)	
	SW16DEL(5152A)	
	SW16DEC(5232A)	
		SW16DEL(5233A)
		WH-16GEA

Figure 7: Visual guide for water heater installation.

5. OPERATING INSTRUCTIONS

Operate your Ranein RV Tankless Water Heater using the multi-function remote control.

5.1 Multi-function Remote Control

The remote control allows you to monitor and adjust various settings:

- **Setting Temperature:** Adjust the desired hot water output temperature.
- **Real-time Temperature:** View the current water temperature.
- **Real-time GPM:** Monitor the current gallons per minute flow rate.
- **Real Time Voltage:** Check the 12V power supply voltage.
- **Gas Usage:** Monitor gas consumption.
- **Error Codes:** Display diagnostic error codes if an issue occurs.
- **High Altitude Mode:** Activate or deactivate high altitude operation.
- **Antifreeze Mode Activation:** View if the antifreeze device is active.

Multi-function Remote Control

You can switch to high altitude mode check gas usage, anti-freeze on, etc.



Figure 8: Multi-function remote control display.

5.2 High Altitude Mode

For optimal performance at elevations up to 9,800 feet, activate the high altitude mode via the remote control. This adjusts the combustion process for thinner air conditions.

High Altitude / Plains Mode



Plains mode



High altitude mode

Manual switching: better suited to your altitude

Figure 9: High Altitude / Plains Mode selection.

6. MAINTENANCE

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

- **Winterization:** When temperatures are expected to drop below freezing, ensure the anti-freeze device is active. For extended storage, drain the water system completely to prevent damage.
- **Cleaning:** Periodically inspect and clean the exterior of the unit and ensure all vents are free from obstructions.
- **Pressure Relief Valve:** Periodically check the pressure relief valve for proper operation. Do not block or remove it.
- **Gas and Water Connections:** Annually inspect all gas and water connections for leaks or corrosion.

Easy to Install Remote Control

Mounts on the wall without removing the remote control.



Figure 10: Built-in Pressure Relief Valve.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps:

- **No Hot Water:**
 - Check gas supply and ensure propane tanks are not empty.
 - Verify water supply is connected and turned on.
 - Ensure the unit is receiving 12V power.
 - Check the remote control for any displayed error codes.
- **Water Too Hot or Too Cold:**
 - Adjust the temperature setting on the remote control.
 - Ensure the constant temperature chamber is functioning correctly.
 - Verify water flow rate is within the recommended range.
- **Unit Not Turning On:**
 - Confirm 12V power supply is connected and functional.
 - Check for loose electrical connections.
- **Error Codes Displayed:**
 - Note the specific error code shown on the multi-function remote control. Refer to the full Ranein service manual (if available) or contact customer support with the code for diagnosis.

8. SPECIFICATIONS

Specification	Value
Product Dimensions	18 x 18 x 18 inches
Item Model Number	0801c601-c3a0-4357-a820-abc5f8937a17
Color	Black

Specification	Value
Mounting Type	Internal
Brand	Ranein
Power Source	12V DC (Corded Electric)
Heating Capacity	65,000 BTU
Max Hot Water Output	3.9 GPM
Temperature Range	95°F - 124°F
High Altitude Operation	Up to 9,800 feet
Certifications	CSA Certificated

9. WARRANTY AND SUPPORT

The Ranein RV Tankless Water Heater comes with a 2-year free service warranty. This covers defects in materials and workmanship under normal use. Additionally, the product incorporates 8 types of security protection features.

For technical support, warranty claims, or further assistance, please contact Ranein customer service through the official Ranein website or your point of purchase. Please have your model number and purchase date available when contacting support.