

Rinnai RE160iN (REU-VE2125FFD-US-N)

Rinnai RE160iN Non-Condensing Natural Gas Tankless Water Heater User Manual

Model: RE160iN (REU-VE2125FFD-US-N)

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Rinnai RE160iN Non-Condensing Natural Gas Tankless Water Heater. Please read this manual thoroughly before installation or use and retain it for future reference. This unit is designed for indoor installation and provides up to 6.6 Gallons Per Minute (GPM) of hot water.



Figure 1: Front view of the Rinnai RE160iN Tankless Water Heater.

2. SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

- Always ensure proper ventilation as specified in the installation guide.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Professional installation by a qualified technician is highly recommended to ensure safety and compliance with local codes.
- Keep children away from the water heater and its controls.

3. PRODUCT OVERVIEW

The Rinnai RE160iN tankless water heater offers advanced technology for efficient hot water delivery. Its compact

design saves space, and the integrated LED display provides operational status and error codes.

Key Features:

- **Smart Design:** Features a cleaner internal layout and a new sliding bracket for easier alignment during installation.
- **LED Display:** Provides service reminders and error codes for enhanced serviceability.
- **Compact Size:** Designed to be highly compact, similar to a small suitcase, allowing for flexible installation locations.
- **High Efficiency:** Heats water only when needed, reducing energy waste.
- **Continuous Hot Water:** Provides an endless supply of hot water on demand.
- **Smart Home Compatibility:** Can be made smarter with an optional Rinnai Controlr for WiFi connectivity (not included).



Figure 2: Rinnai RE160iN with its LED display for status and control.

4. SPECIFICATIONS

Feature	Specification
Brand	Rinnai
Model Number	REU-VE2125FFD-US-N
Product Dimensions	14.05"W x 27.28"H x 10.77"D
Item Weight	48.5 pounds
Power Source	Natural Gas
Voltage	120 Volts
Maximum Flow Rate	6.6 Gallons Per Minute
Maximum Temperature	140 Degrees Fahrenheit
Efficiency	0.81
Mounting Type	Wall
Color	Silver
What's in the Box	Tankless Water Heater

5. INSTALLATION

The Rinnai RE160iN is designed for indoor installation. Due to the complexity of gas and water connections, **professional installation by a qualified technician is strongly recommended**. Incorrect installation can lead to serious injury, property damage, or void the product warranty.

General Guidelines:

- Ensure the installation location complies with all local and national codes for gas appliances.
- Verify adequate ventilation and proper venting for exhaust gases.
- The unit requires a 3/4" natural gas line.
- Proper water and gas shut-off valves should be installed for maintenance.
- Mount the unit securely to a wall using appropriate hardware.



Figure 3: Example of a Rinnai tankless water heater with connected plumbing and gas lines.

6. OPERATION

Your Rinnai RE160iN water heater is designed for simple operation. Once installed and connected, it will provide hot water on demand.

Turning the Unit On/Off:

The unit typically operates automatically. Refer to the LED display for current status. Use the On/Off button on the control panel if manual intervention is required.

Setting Water Temperature:

The desired water temperature can be adjusted using the up and down arrows on the control panel. The current approximate water temperature will be displayed on the LED screen. For safety, especially in homes with children, it is recommended to set the temperature to 120°F (49°C) or lower to prevent scalding.

Understanding the LED Display:

The LED display shows the approximate water temperature and can indicate various operational statuses or error codes. Consult the full installation manual for a complete list of error codes and their meanings.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Rinnai tankless water heater. It is recommended to have the unit serviced annually by a qualified professional.

Annual Descaling:

To prevent mineral buildup (scale) which can reduce efficiency and damage the unit, annual descaling is crucial. This process involves circulating a descaling solution through the heat exchanger. Your professional installer can

perform this service.

General Care:

- Keep the area around the water heater clear of obstructions and flammable materials.
- Periodically inspect the venting system for any blockages or damage.
- Ensure the air intake is not blocked.

8. TROUBLESHOOTING

If your Rinnai tankless water heater is not functioning correctly, the LED display may show an error code. Refer to the comprehensive troubleshooting section in the full installation manual for specific error code interpretations and solutions. Below are some common issues and general advice:

- **No Hot Water:** Check if the unit is powered on, gas supply is open, and water supply is active. Look for error codes on the display.
- **Inconsistent Water Temperature:** This could indicate scale buildup or issues with water flow. Descaling may be required.
- **Low Water Flow:** Check for clogged filters or restrictions in the water lines.
- **Unusual Noises:** Contact a qualified technician if you hear unusual sounds like banging or grinding.

For complex issues or if an error code persists, contact a Rinnai-certified technician.

9. WARRANTY AND SUPPORT

Rinnai stands behind the quality of its products. The RE160iN Tankless Water Heater comes with the following residential guarantees:

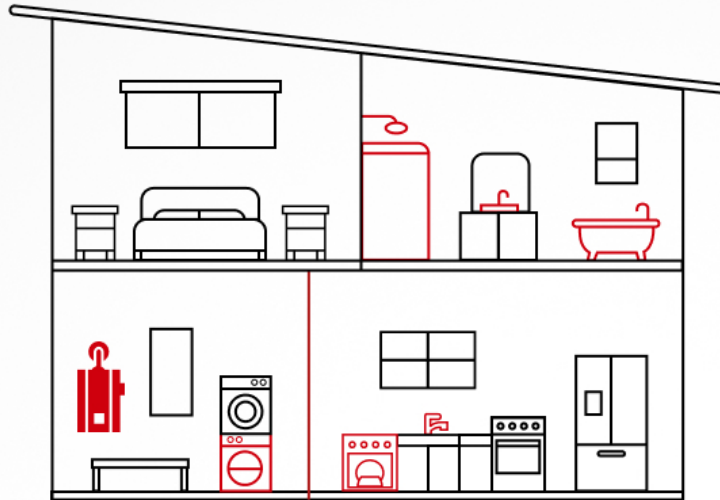
- **Heat Exchanger:** 15-year limited warranty.
- **Labor:** 5-year limited warranty.
- **Parts:** 1-year limited warranty.

Please register your product to activate your warranty. For detailed warranty terms and conditions, or to find a Rinnai PRO technician in your area, visit the official Rinnai website or contact Rinnai customer support.

10. MEDIA GALLERY

Product Images:

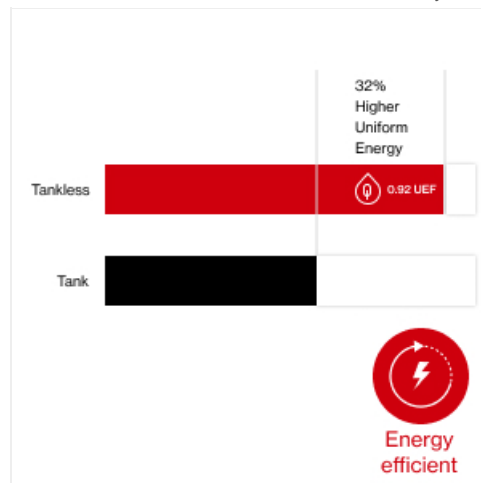
Tankless: The most important appliance in your home



The heartbeat of your entire home, Rinnai tankless water heaters deliver hot water to the most critical areas, providing your family with a happy, comfortable lifestyle.

- ✓ Showering
- ✓ Bathing
- ✓ Dishes
- ✓ Laundry

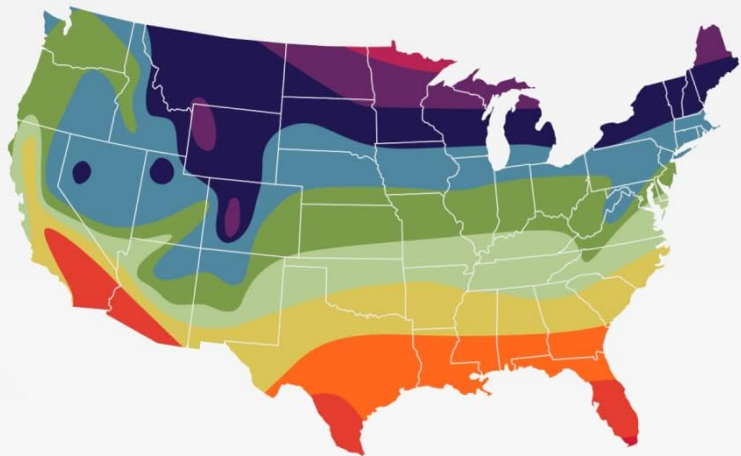
Hot water distribution in a home with a tankless system.



Space-saving design of the tankless water heater.



Groundwater Temperature Map



Use your location on the map to correlate legend for average ground water temperature in the U.S.

- 75° F

Hawaii & Puerto Rico
- 35°-42° F

Alaska & Canada

Non-Condensing Model: RE160i/e BTU: 160,000	Groundwater Temperature	Max Flow Rate (GPM)	Simultaneous Shower Use
	35° F	3.1	
	37° F	3.2	
	42° F	3.4	
	47° F	3.6	
	52° F	3.9	
	57° F	4.2	
	62° F	4.5	
	67° F	5.0	
	72° F	5.5	
	77° F	6.1	

Groundwater Temperature Map for performance reference.

Official Product Videos:

Video: Features & Benefits of Rinnai Tankless Water Heaters. This video highlights the advantages and key functionalities of Rinnai’s tankless systems.

Video: Rinnai RE/REP 360 Tankless Video. This is a short 7-second preview providing a quick visual overview of the Rinnai RE/REP series tankless water heaters.