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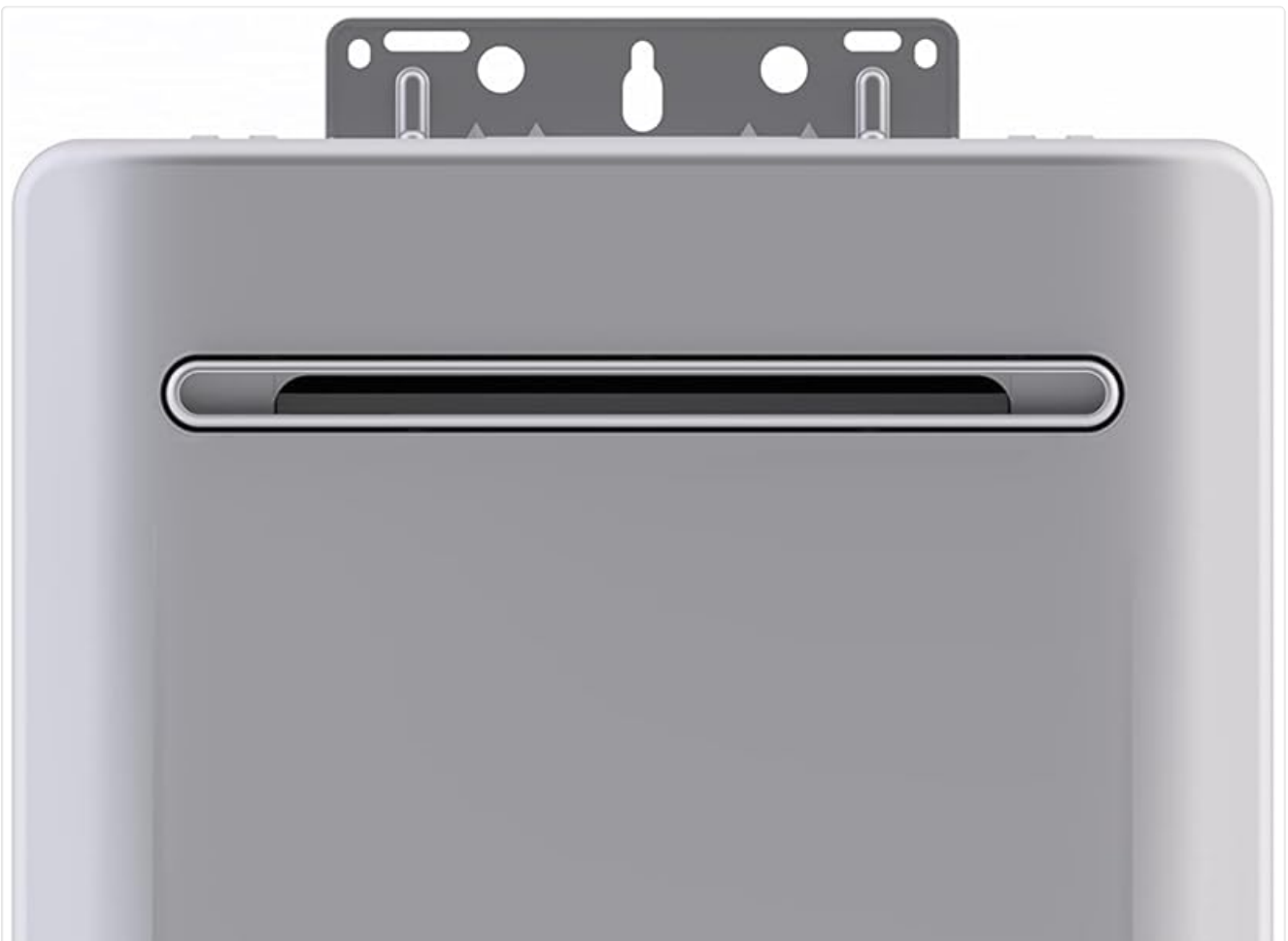
Rinnai RE180eN (REU-VE2432WD-US-N)

Rinnai RE180eN Non-Condensing Natural Gas Tankless Water Heater User Manual

Model: RE180eN (REU-VE2432WD-US-N) | Brand: Rinnai

INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Rinnai RE180eN Non-Condensing Natural Gas Tankless Water Heater. Designed for outdoor installation, this unit offers advanced technology to provide on-demand hot water, contributing to energy conservation and space-saving benefits. Its smart design includes an LED display for service reminders and error codes, enhancing ease of use and maintenance.





Front view of the Rinnai RE180eN Tankless Water Heater, showcasing its compact design and digital LED display.

The Rinnai RE180eN is engineered to deliver up to 8.5 Gallons Per Minute (GPM) of hot water, capable of supplying multiple fixtures simultaneously. Unlike traditional tank water heaters, this tankless system heats water only when needed, reducing wasted energy and ensuring a continuous supply of hot water for your household needs.

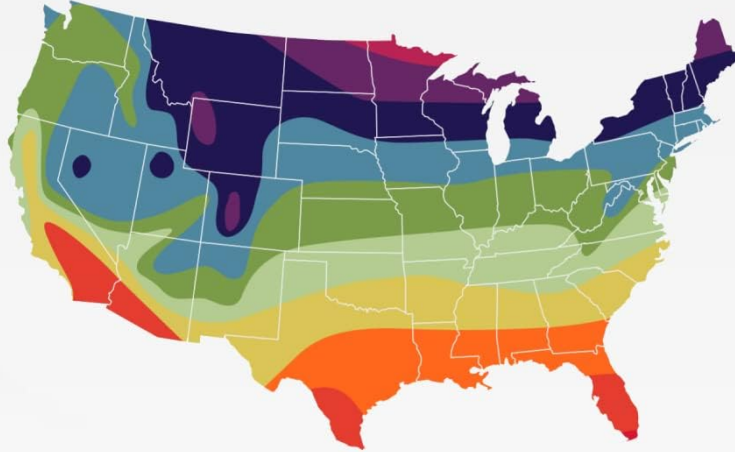
SETUP AND INSTALLATION

Professional installation is highly recommended for the Rinnai RE180eN Tankless Water Heater to ensure proper function, safety, and adherence to local codes. This unit is designed for outdoor installation.

For detailed installation instructions, including plumbing and gas connections, venting requirements, and initial startup procedures, please refer to the official Installation Manual:



Groundwater Temperature Map



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

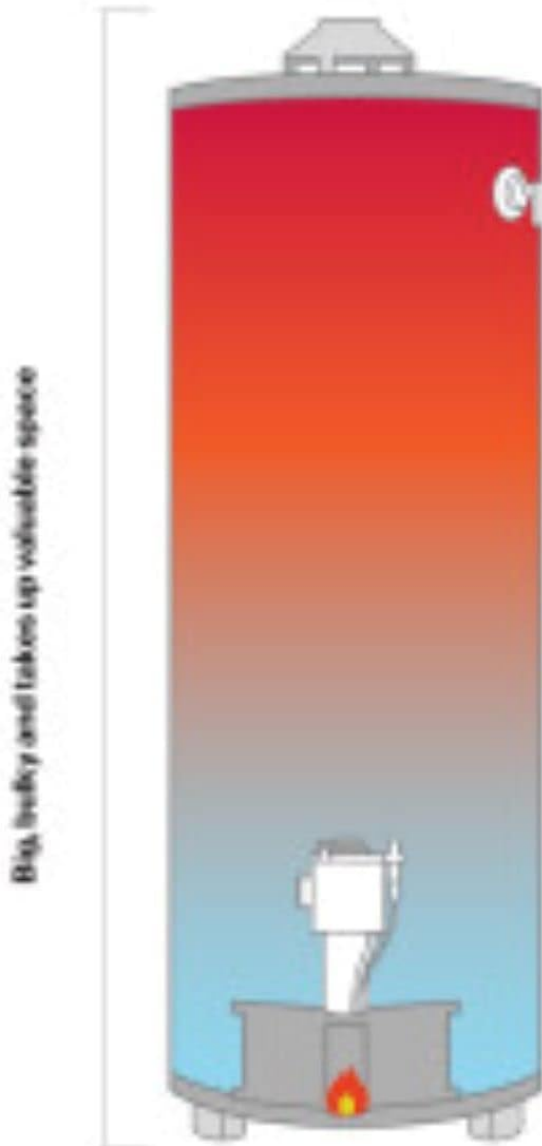
75° F Hawaii & Puerto Rico

35°-42° F Alaska & Canada

Non-Condensing Model: RE180i/e BTU: 180,000	Groundwater Temperature	Max Flow Rate (GPM)	Simultaneous Shower Use
	35° F	3.5	2
	37° F	3.6	3
	42° F	3.8	4
	47° F	4.0	5
	52° F	4.3	6
	57° F	4.7	7
	62° F	5.1	8
	67° F	5.6	9
	72° F	6.2	10
77° F	6.9	11	

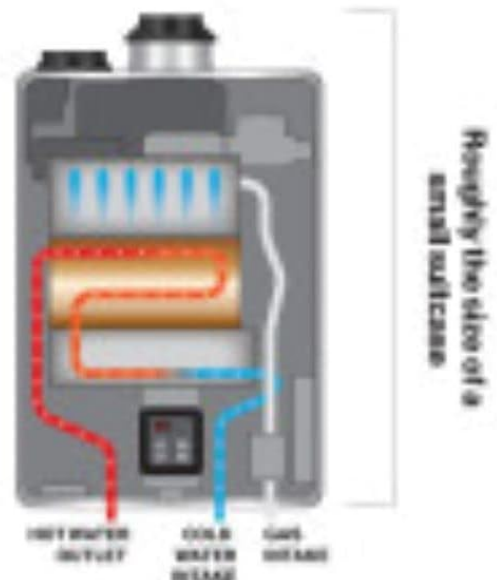
Comparison illustrating the Rinnai RE180eN's specifications against a previous model, emphasizing its outdoor installation and improved efficiency.

Rinnai.



More space for you

Only the size of a small suitcase, our wall-mounted models can be installed in compact spaces in both indoor and outdoor locations. They take up less space for heating, giving you back more space for living.



Visual comparison demonstrating the significant space savings achieved by installing a Rinnai tankless water heater compared to a traditional tank unit.

OPERATING INSTRUCTIONS

The Rinnai RE180eN operates on an on-demand basis, heating water only when a hot water tap is opened. This intelligent system ensures you have a continuous supply of hot water without the need for a storage tank.

Key Features:

- **On-Demand Heating:** Water is heated instantly as it flows through the unit, eliminating standby energy loss.
- **Continuous Hot Water:** Enjoy an endless supply of hot water for multiple applications simultaneously, such as showering, bathing, washing dishes, and laundry.
- **LED Display:** The integrated LED screen provides real-time status, service reminders, and error codes for easy monitoring and diagnostics.

- **Smart Control (Optional):** The unit can be made even smarter with a Rinnai Controlr for WiFi connectivity (not included), allowing for remote monitoring and control.

Understanding Tankless Water Heaters:



This video highlights the key features and benefits of Rinnai tankless water heaters, explaining their energy efficiency and continuous hot water supply compared to traditional tank systems.



A brief 360-degree view of the Rinnai RE/REP tankless water heater, providing a visual overview of its exterior design and connections.

MAINTENANCE

Regular maintenance is crucial for ensuring the longevity and optimal performance of your Rinnai tankless water heater. Unlike tank heaters that can accumulate rusty sediment, tankless units are designed for a longer lifespan, often twice as long as traditional tanks, with proper care.

Key maintenance tasks typically include:

- **Flushing the Heat Exchanger:** Periodically flushing the unit helps prevent mineral buildup, especially in areas with hard water.
- **Inspecting Air Filters:** Ensure proper airflow by regularly checking and cleaning any air filters.
- **Checking for Leaks:** Routinely inspect all connections and pipes for any signs of leaks.

For detailed, step-by-step maintenance procedures and recommended schedules, please consult the comprehensive Installation Manual provided with your unit or download it from the link in the Setup section.

TROUBLESHOOTING

The Rinnai RE180eN is equipped with an LED display that shows error codes, which can assist in diagnosing potential issues. If you encounter a problem, first check the LED display for any error codes and refer to the troubleshooting section of your Installation Manual for corresponding solutions.

Common issues and initial checks:

- **No Hot Water:** Verify gas supply, water supply, and power connection. Check for error codes on the LED display.
- **Inconsistent Water Temperature:** Ensure proper water flow rate. Mineral buildup can affect performance; consider flushing the unit.
- **Low Hot Water Flow:** Check for clogged filters or restricted water lines.



Many issues can be resolved by following the troubleshooting guide in the Installation Manual. If the problem persists or you are unsure about a solution, it is recommended to contact a qualified Rinnai professional.

SPECIFICATIONS

Feature	Detail
Brand	Rinnai
Model Number	REU-VE2432WD-US-N
Product Dimensions (W x H)	14.05" x 27.34"
Item Depth	9-10 inches
Item Weight	53 pounds
Fuel Type	Natural Gas
Maximum Flow Rate	8.5 Gallons Per Minute (GPM)
BTU Input	180,000 BTU
Efficiency (UEF)	0.82
Voltage	120 Volts
Wattage	18 KW
Maximum Operating Pressure	150 Pound per Square Inch (PSI)
Mounting Type	Wall
Special Feature	LED Display

Groundwater Temperature Impact on Flow Rate:

The effective flow rate (GPM) of your tankless water heater can vary based on the incoming groundwater temperature. Colder incoming water requires more energy to heat, which can slightly reduce the maximum achievable flow rate.

 <p>BEFORE</p> <p>RL75eN</p>	<p>AFTER</p> <p>RE180eN</p> 
Outdoor Installation Only	Outdoor Installation Only
Max Input (KBTU) = 180	Max Input (KBTU) = 180
Length x Width x Height = 9.6 x 14.04 x 24.3(inches)	Length x Width x Height = 10.77 x 14.05 x 24.64(inches)
UEF = 0.81	UEF = 0.82
Weight = 43.6 pounds	Weight = 42.1 pounds
Natural Gas	Natural Gas

This map and table illustrate how groundwater temperature across different regions of the U.S. can influence the maximum hot water flow rate (GPM) and the number of simultaneous showers your Rinnai RE180i/e unit can support.

WARRANTY INFORMATION

The Rinnai RE180eN Tankless Water Heater comes with a comprehensive residential guarantee:

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

For complete details regarding warranty terms, conditions, and registration, please refer to the official warranty documentation included with your product or available through the Rinnai website.

SUPPORT AND RESOURCES

For additional support, professional installation services, or to explore other Rinnai products, please utilize the following resources:

- **Find a Rinnai PRO:** Visit the "Find a Rinnai PRO" page on the official Rinnai website to locate a qualified technician in your area for installation or service.
- **Official Rinnai Store:** Explore the full range of Rinnai products and accessories [Visit the Rinnai Store on Amazon](#)
- **Installation Manual:** Access the complete manual for detailed instructions [Download Installation Manual \(PDF\)](#)