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Ranein RE27K

Ranein Electric Tankless Water Heater User Manual

Model: RE27K | Brand: Ranein

PRODUCT OVERVIEW

The Ranein 27kW 240V Electric Tankless Water Heater provides instant, endless hot water on demand for residential whole-house applications. Its compact design saves space, and its high efficiency helps reduce heating costs. Featuring an LED temperature display and simple controls, this unit ensures a stable and ample supply of hot water for multiple usage points.



Figure 1: Front view of the Ranein 27kW Electric Tankless Water Heater, showcasing its sleek design and LED display.

SAFETY INFORMATION

Your safety is paramount. This electric tankless water heater is equipped with multiple safety features, including leakage protection, overheating protection, and damp proofing. Every unit undergoes strict testing to ensure 100% safety and is listed by CSA. Always adhere to local electrical and plumbing codes during installation and operation.

Multiple Safety Protection



Figure 2: Diagram illustrating the multiple safety protections integrated into the Ranein water heater, including overheat, dry combustion, IPX4 waterproof, and leakage protection.

For detailed safety guidelines, please refer to the official [Safety Information PDF](#).

KEY FEATURES

- Instant & Endless Hot Water:** Delivers hot water on demand with a powerful 27kW output and a flow rate of up to 6.5 GPM, suitable for 2-4 usage points throughout the house. No waiting for preheating.
- High Energy Efficiency:** On-demand thermal efficiency reaches up to 99%. Saves up to 60% of heating costs compared to tank-type water heaters as there is no energy consumption when not in use.
- Precise Temperature Control:** Features knob controls and an LED display, allowing temperature adjustment from 86°F to 131°F in 1°F increments for stable and ample hot water.

- **Space-Saving Design:** More compact than traditional tank heaters, allowing for flexible installation anywhere cold and hot water pipes are available.
- **Multiple Safety Protections:** Equipped with leakage protection, overheating protection, drop test, and damp proofing for enhanced user safety.

Why Choose Ranein



Visualizing Temperature



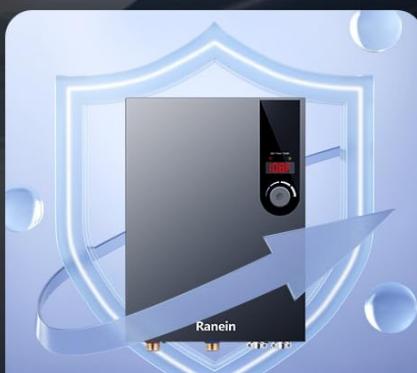
Heats Up in 3 Seconds



Unlimited Hot Water



Intelligent Constant Temperature



Multiple Protections



Compact

Figure 3: Visual representation of key benefits including visualizing temperature, 3-second heating, unlimited hot water, intelligent constant temperature, multiple protections, and compact design.

High-Power Electric Water Heater



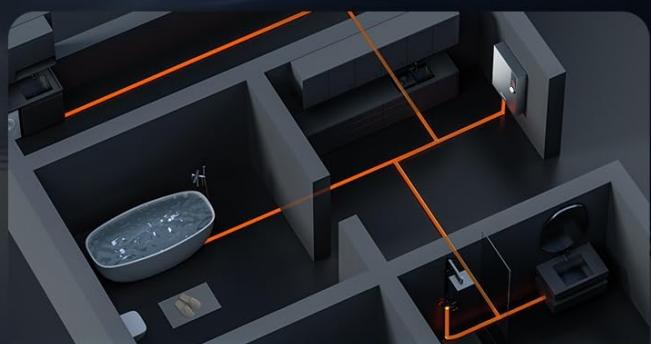
High Energy Efficiency



Faster Heating Speed



Large Water Volume
and Flow Rate



Multiple Points Use Water
to Maintain Temperature

Figure 4: Highlights of the high-power electric water heater, emphasizing high energy efficiency, faster heating speed, large water volume and flow rate, and multi-point temperature maintenance.

Accurate Temperature Control

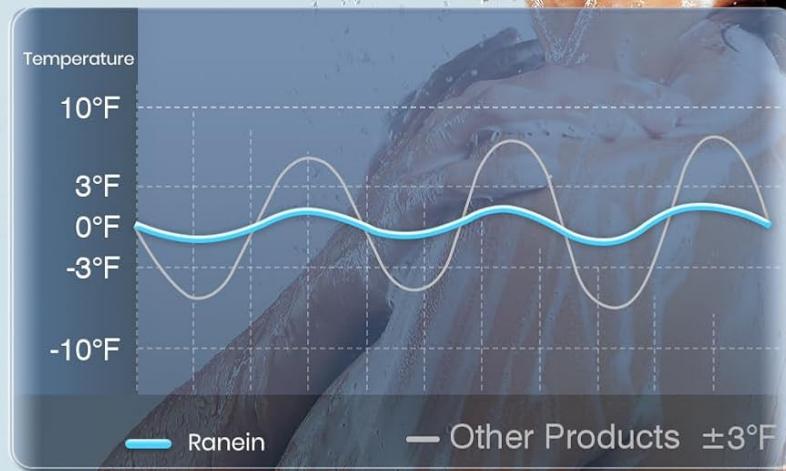


Figure 5: Graph demonstrating the accurate temperature control of the Ranein unit compared to other products, showing minimal temperature fluctuations.

INSTALLATION

Proper installation is critical for the safe and efficient operation of your Ranein Electric Tankless Water Heater. Professional installation is highly recommended. Consult a qualified electrician prior to purchase and installation to ensure your home's electrical infrastructure can accommodate the unit's requirements.

Electrical Requirements:

This 27kW unit requires 240 volts and 3 x bipolar 40 amp circuit breakers. Ensure your breaker panel has the proper space and capacity.

Pay Attention To Specs And Electrical Infrastructure Is Very Important.

ATTENTION! PRODUCT REQUIRES

112 Ampamps Power | 3 x 40 AMP Breakers Required

Please Ensure You Can Accommodate The Power Supply And Have The Proper Spce For This Unit In Your Breaker Panel

Figure 6: Important notice regarding the product's electrical requirements: 112 Amps power and 3 x 40 AMP breakers required.

Cable Gauge & Power Requirements

8AWG Thickness
(Roughly equivalent to two quarters)



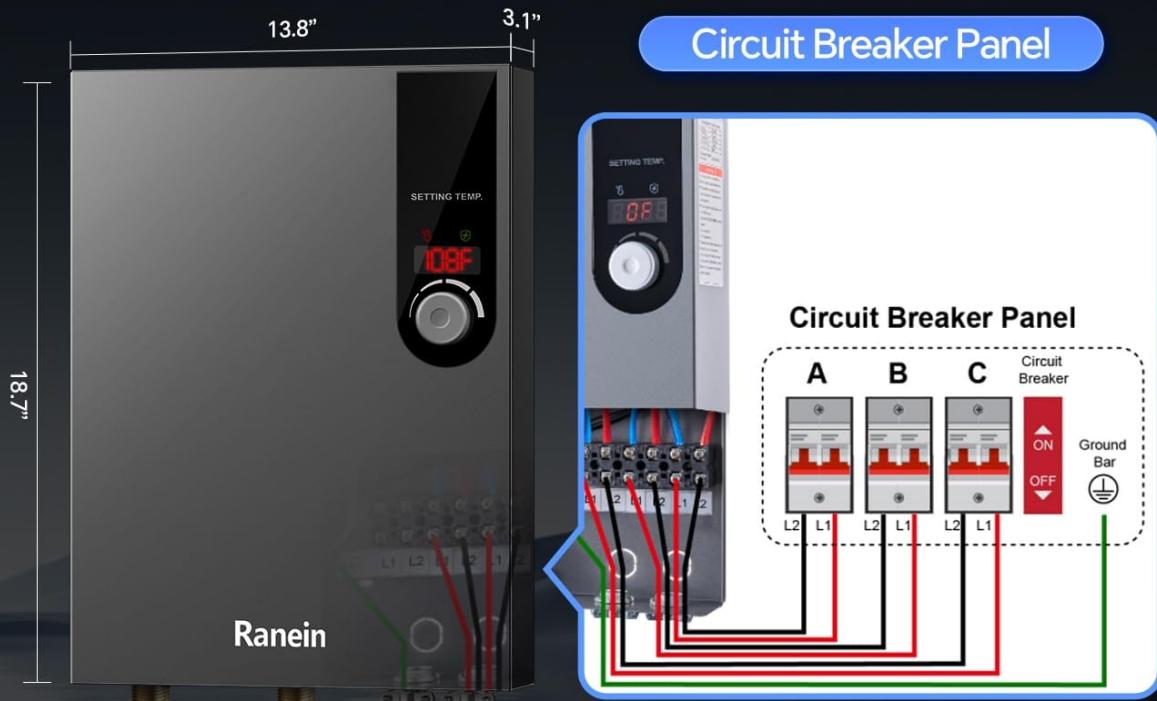
6AWG Thickness
(Thicker than two quarters)



Power (Output)	Cable Required	Breaker
4.5kW / 120V	8AWG	40A
8kW / 240V	8AWG	40A
13kW / 240V	6AWG	60A
18kW / 240V	2x8AWG	40A*2
27kW / 240V	3x8AWG	40A*3

Figure 7: Table detailing cable gauge and breaker requirements for various power outputs, including 27kW/240V requiring 3x8AWG cable and 3x40A breakers.

Installation Diagram



Requirements:

Mode	KW	Voltage	Maximum Amp	Breaker	Cable Required	Pipe Fitting	Weight
RE27K	27kW	240V/60A	113 AMP	3 x 40 AMP	3 x 8 AWG	3/4" NPT	16.7 lbs

Figure 8: Detailed installation diagram showing unit dimensions (13.8"W x 18.7"H), wiring connections to a circuit breaker panel, and a summary of requirements for the RE27K model.

For comprehensive installation instructions, please download the official [Installation Manual \(PDF\)](#).

OPERATING INSTRUCTIONS

The Ranein Electric Tankless Water Heater is designed for simple operation. Once installed and powered, the LED display will show the current temperature. Use the knob controls to adjust the desired water temperature. The temperature can be set between 86°F and 131°F in 1°F increments.

When hot water is demanded (e.g., by opening a faucet), the unit will instantly begin heating the water to your set temperature. The display will update to reflect the output temperature.

For more detailed operating procedures, refer to the [Instructions for Use \(IFU\) \(PDF\)](#).

MAINTENANCE

The Ranein tankless water heater is designed for minimal maintenance due to its non-scaling heating technology. However,

regular checks can ensure optimal performance and longevity:

- **Visual Inspection:** Periodically inspect the unit for any signs of leaks, corrosion, or damage to the casing or connections.
- **Clean Exterior:** Wipe the exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Water Quality:** If you have hard water, consider installing a water filter on the feed line to prevent sediment buildup, although the unit is designed to be non-scaling.
- **Professional Check:** It is advisable to have a qualified technician inspect the unit annually to ensure all components are functioning correctly.

TROUBLESHOOTING

If you encounter issues with your Ranein Electric Tankless Water Heater, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No hot water / Unit not turning on	No power, tripped circuit breaker, insufficient water flow.	Check circuit breakers. Ensure water supply is open and sufficient flow is detected. Verify power connection.
Water not hot enough	Temperature setting too low, incoming water too cold, multiple fixtures running simultaneously exceeding flow rate.	Increase temperature setting. Reduce simultaneous hot water usage. Ensure unit is correctly sized for your needs.
Error code on display	Internal fault, sensor issue, or specific operational problem.	Refer to the Instructions for Use (IFU) PDF for a list of error codes and their solutions. If persistent, contact customer support.

If the problem persists after attempting these solutions, please contact Ranein customer support.

SPECIFICATIONS

Attribute	Detail
Brand	Ranein
Model Number	RE27K
Wattage	27 kW
Voltage	240 Volts (AC)
Circuit Breaker Required	3 x bipolar 40 Amps
Product Dimensions (W x H)	13.8" x 18.7"
Item Weight	17.41 pounds
Water Connection	3/4" NPT
Maximum Temperature	131 Degrees Fahrenheit
Efficiency	99.8%
Maximum Operating Pressure	130 PSI
Special Feature	LED Display
Color	Starry sky gray

Attribute	Detail
Mounting Type	Wall

WARRANTY AND SUPPORT

Ranein stands behind the quality of its products. This Electric Tankless Water Heater comes with a **2-Year Warranty**. Our professional after-sales team is available to provide comprehensive support, including installation guidance and product consultation. For any inquiries or assistance, please contact Ranein customer service.

Warranty Period: 2 Years

Support Services: Installation Guidance, Product Consultation, After-Sales Support

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