

Ranein RH8KG-NG

Natural Gas Tankless Water Heater User Manual

Brand: Ranein | Model: RH8KG-NG

1. IMPORTANT SAFETY INFORMATION

Please read all instructions carefully before installation and operation. Failure to follow these instructions could result in property damage, personal injury, or death. Keep this manual for future reference.

- Ensure proper ventilation for gas appliances.
- Confirm required dimensions and clearances as specified in the installation section.
- Activate the pressure relief valve during freezing conditions to prevent frozen pipe bursts.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

2. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Water Heater Unit (1)
- Installation Instruction Manual (1)
- Vent Pipe (1)



Image: The Ranein Natural Gas Tankless Water Heater unit shown with its accompanying vent pipe.

3. INSTALLATION

Professional installation is recommended for natural gas appliances. Refer to local codes and regulations.

3.1 Determine Installation Location

Choose a location that is indoors, has adequate ventilation, and is close to gas, water, and electrical connections. Ensure sufficient space around the unit for maintenance and proper airflow. The product dimensions are 21.7" × 13.8" × 6.8".

Modern simple and elegant white design



Image: Example installation in a kitchen setting, demonstrating the compact size.

3.2 Mounting the Unit

Use the provided paper drilling template to mark the positions for drilling holes. Secure the mounting bracket to the wall using appropriate fasteners. Carefully lift the water heater and align it with the mounting bracket, ensuring it is securely seated.

3.3 Connect Valves, Water, and Gas Pipes

Connect the hot water outlet, cold water inlet, and gas inlet to the corresponding ports on the bottom of the unit. Ensure all connections are tight and leak-free. Use thread sealant where necessary for gas connections.

3.4 Install Flue Pipe

Attach the provided flue pipe to the top exhaust port of the water heater. Ensure the vent is properly secured and extends outdoors to prevent the accumulation of exhaust gases. The vent should be sloped downwards at a minimum of 3 degrees to prevent rain and condensed water from entering the vent pipe.

Video: A detailed guide demonstrating the installation process for the Ranein 12L Hot Water Heater, including mounting, pipe connections, and flue pipe installation.

4. SETUP AND INITIAL OPERATION

After installation, ensure all connections are secure and there are no gas or water leaks. Plug in the power cord. The unit features a smart LED control panel.

4.1 Power On/Off

Press the power button on the LED display to turn the unit on or off.

4.2 Temperature Adjustment

Use the up and down arrows on the LED display to adjust the water temperature. The temperature is adjustable from 95°F to 149°F. The upgraded system maintains steady temperatures, eliminating sudden hot/cold spikes.

4.3 Seasonal Modes

The unit features four auto-adaptive seasonal modes that adjust to ambient changes, ensuring consistent comfort. Select the appropriate mode via the control panel.

Excellent Temperature Control Expert

Efficient combustion, stable water temperature

±1°F
Temperature Sensor

96%
Thermal Efficiency

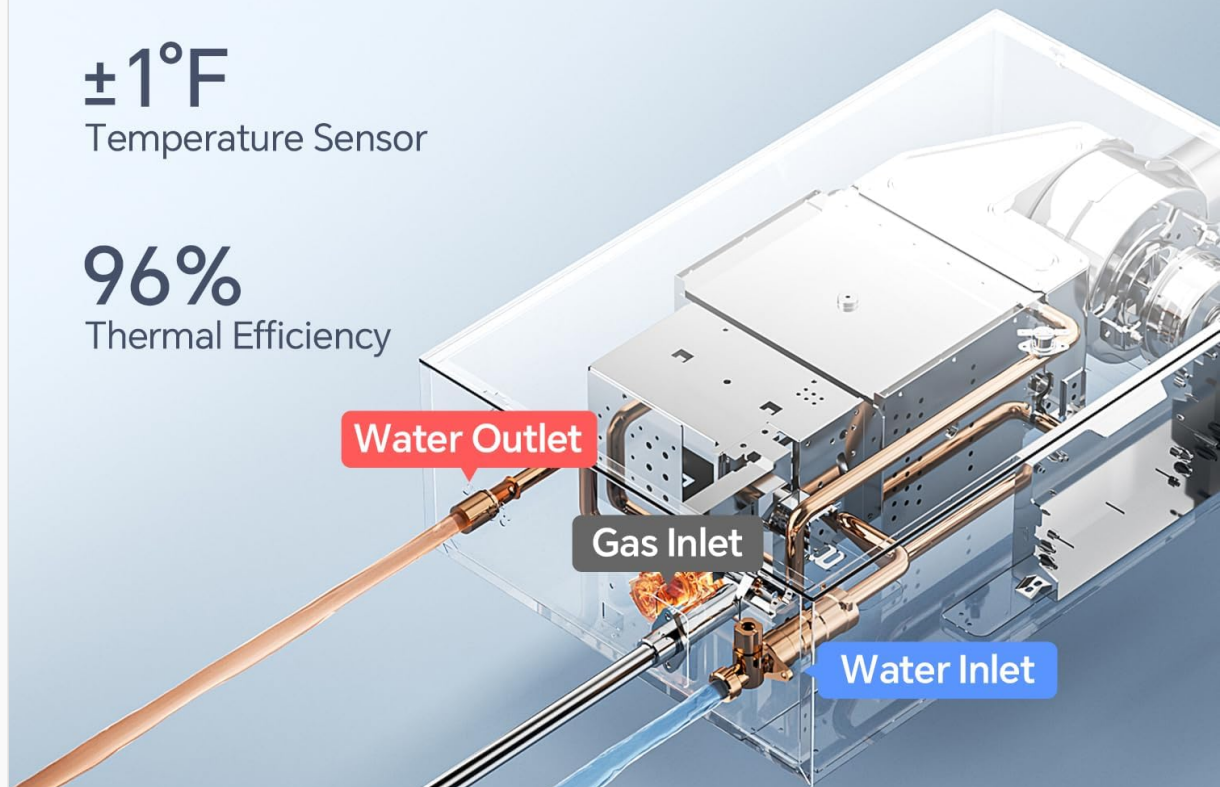


Image: Illustration of the water heater's internal components and temperature control mechanism, highlighting efficient combustion and stable water temperature.

5. OPERATING INSTRUCTIONS

This tankless water heater provides on-demand hot water for 2–3 points of use simultaneously, ideal for apartments, small bathrooms, or kitchens.

5.1 LED Display Information

The LED screen displays real-time water temperature, gas flow rates, and water flow rates. It also indicates fault signals if any issues arise.

5.2 Quiet Operation

The advanced combustion technology lowers operational noise, ensuring quiet performance that will not disturb household tranquility.













Choose the right Ranein water heater for your home						
						
Product Name	80000 BTU Tankless Water Heater	100000 BTU Tankless Water Heater	130000 BTU Tankless Water Heater	190000 BTU Tankless Water Heater	785000 BTU Tankless Water Heater	116000 BTU Tankless Water Heater
SKU	RH8K	RH10K	RH13K	RH19K	RH8KG	RH11KG
Rated Air Pressure	NG/LPG:500 pa	NG:2000 pa/ LPG:2740 pa	NG:2000 pa/ LPG:2740 pa	NG:2000 pa/ LPG:2740 pa	NG:1740 Pa/ LPG:2740 Pa	NG:1740 Pa/ LPG:2740 Pa
Technical Points	1/2"NPT	1/2"NPT	1/2"NPT	1/2"NPT	1/2"NPT	1/2"NPT
Gas Inlet	1/2"NPT	1/2"NPT	3/4"NPT	3/4"NPT	1/2"NPT	1/2"NPT
Flue Pipe Dia	Φ 3"	Φ 3"	Φ 3.15"	Φ 3.9"	Φ 2.36"	Φ2.95"
Number of People						
Application Scenario	Apartments small-sized residences single bathroom units	Small and medium-sized residential single bathroom or double bathroom	Medium to large residential units double bathroom units duplex layouts	Villas multi-story residences multiple bathrooms	Apartments single apartments small-sized residences	Medium sized residential units double bathroom units duplex units

Image: The water heater operating with minimal noise, indicated by a 10dB level.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your water heater.

- **Cleaning:** The tempered glass panel resists stains and fingerprints and can be cleaned effortlessly with a soft cloth.
- **Pressure Relief Valve:** During freezing conditions, activate the pressure relief valve to prevent pipe bursts.
- **Heat Exchanger:** The oxygen-free copper heat exchanger is designed for durability and minimizes heat loss, extending the lifespan of the unit.

Upgraded White Glass Panel



Image: A hand cleaning the upgraded white glass panel, highlighting its easy-to-clean surface.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

- **No Hot Water:** Check gas supply, water supply, and electrical connection. Ensure the unit is powered on and the temperature setting is appropriate.
- **Inconsistent Temperature:** Verify water flow rate is within the recommended range. The unit's precise temperature control system should minimize fluctuations.
- **Error Codes:** Refer to the LED display for any fault signals. Consult the full instruction manual for specific error code meanings and troubleshooting steps.

8. SPECIFICATIONS

Feature	Detail
Brand	Ranein
Model Number	RH8KG-NG

Feature	Detail
Product Dimensions	13.8"W x 6.8"H (Unit: 21.7" x 13.8" x 6.8")
BTU Output	78,500 BTU per hour
GPM (Gallons Per Minute)	Up to 3.17 GPM
Voltage	120 Volts
Color	Gray
Special Feature	LED Display
Item Weight	21.6 pounds



Image: Visual representation of the water heater's dimensions and a table of key specifications.

9. WARRANTY AND SUPPORT

The Rancin Natural Gas Tankless Water Heater comes with a 2-year free service warranty and 8 types of security protection features, ensuring peace of mind.

For technical assistance, warranty claims, or further inquiries, please contact Ranein customer support through the official website or the contact information provided with your purchase documentation.

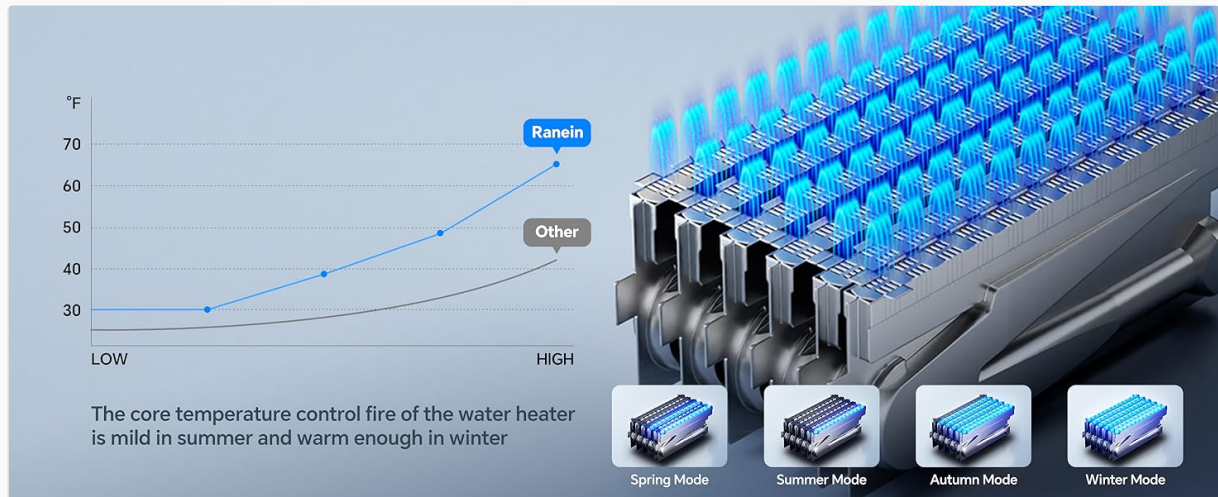

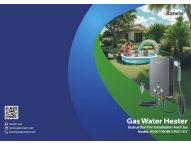




Image: A graphic detailing the 2-year free service and 8 types of security protection included with the product.

Related Documents - RH8KG-NG

<p>1. Instantaneous water/gas flow query:</p> 	<p>RANEIN Tankless Water Heater User Guide</p> <p>This guide provides instructions for operating the RANEIN Natural Gas Tankless Water Heater, covering features like instantaneous flow query, cumulative flow query, four seasons temperature function, kitchen function, bathtub function, and high-temperature lock function.</p>
	<p>Ranein 12L Propane Tankless Water Heater Installation Manual</p> <p>Installation manual for the Ranein 12L propane gas tankless water heater, providing up to 3.18 GPM and 68,000 BTU for on-demand hot water.</p>
	<p>Ranein Residential Indoor Tankless Gas Water Heater Installation and Use Manual</p> <p>This manual provides comprehensive instructions for the installation, operation, and maintenance of the Ranein Residential Indoor Tankless Gas Water Heater, models RH10K-NG and RH10K-LPG. It includes detailed safety warnings, operating procedures, troubleshooting tips, and warranty information to ensure safe and efficient use.</p>
	<p>Ranein Tankless Gas Water Heater Installation and Use Manual</p> <p>Comprehensive guide for Ranein Tankless Gas Water Heaters, covering installation, operation, safety precautions, maintenance, and troubleshooting for models RH13K and RH19K.</p>
	<p>Ranein Tankless Gas Water Heater Installation and Use Manual</p> <p>Comprehensive manual for Ranein RH8K-NG and RH8K-LPG tankless gas water heaters, covering installation, operation, safety precautions, maintenance, and troubleshooting.</p>



[Ranein Tankless Gas Water Heater Installation and Use Manual](#)

Comprehensive guide for the installation and use of Ranein Tankless Gas Water Heaters, models RH10K-NG and RH10K-LPG. Includes safety warnings, operating instructions, maintenance procedures, and troubleshooting tips.