Ranein RH13K-LPG

Ranein GEN II 5.3 GPM 130,000 BTU Indoor Propane Tankless Water Heater

Model: RH13K-LPG

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Ranein GEN II 5.3 GPM 130,000 BTU Indoor Propane Tankless Water Heater. Please read all instructions carefully before installation and use. Keep this manual for future reference.

2. Safety Information

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

- This appliance must be installed by a licensed professional in accordance with all local codes and regulations.
- Do not install this water heater in areas over 2,000 feet elevation without consulting local codes.
- Ensure proper ventilation and exhaust for the unit.
- Do not store chemicals or flammable materials near the appliance.
- Built-in anti-freeze unit protects down to 14°F (-10°C). If temperatures drop below this, drain the unit to prevent pipe cracking.

3. Product Overview

The Ranein GEN II Tankless Water Heater provides on-demand hot water with high efficiency. Key features include:

- **High-Efficiency Endless Hot Water:** Max 5.3 GPM flow and 130,000 BTU output, supporting 3–5 taps.
- **Steady Temperature:** Advanced technology maintains stable water temperature by auto-adjusting flow and heat.
- **Powerful & Safer Blower:** Bottom-mounted blower prevents smoke backflow and ensures full combustion with low noise.
- **Energy-Saving:** Heats water on demand, reducing standby waste.
- **Space-Saving:** Compact wall-mounted design.
- **Durable Components:** Oxygen-free copper tank for reduced heat loss and improved thermal conductivity.
- **LED Display:** For easy temperature control and monitoring.



Image: Ranein Tankless Water Heater highlighting its main features and benefits.



Image: Detailed view of the Ranein Tankless Water Heater showing dimensions (14.17"W x 23.15"H) and key operational parameters like water pressure range (0.025~0.8MPa), gas pressure (2,800Pa/2,000Pa), rated voltage (AC110V/60Hz), and temperature rise range (95°F - 149°F). It also indicates Water Outlet: 1/2" NPT, Water Inlet: 1/2" NPT, and Gas Inlet: 3/4" NPT.

4. Setup and Installation

Installation must be performed by licensed professionals according to local codes.

4.1 Determine Installation Location

- This is an indoor unit. Do not install outdoors.
- Choose a location with adequate ventilation and access to water and gas lines.
- Ensure sufficient clearance around the unit for maintenance.

4.2 Mounting to Wall

Use the provided quick installation guide template to mark drill points on the wall. Drill holes, insert plastic ribbed anchors, and then the expansion screws. Hang the water heater onto the anchor screws and tighten

them up.

Video: This video demonstrates the wall mounting process for the Ranein Gas Tankless Water Heater, including marking drill points, drilling, inserting anchors, and securing the unit to the wall. It also shows the connection of water and gas pipes, and the LED control panel.

4.3 Connecting Water and Gas Pipes

Ensure all connections are sealed properly to prevent leaks. Use waterproof tape on threaded connections.

1. Connect the cold water inlet valve to the water inlet port (labeled "COLD Water Inlet").
2. Connect the cold water pipe to the cold water inlet valve.
3. Connect the hot water outlet valve to the water outlet port (labeled "HOT Water Outlet").
4. Connect the hot water pressure relief valve.
5. Connect the hot water pipe.
6. Connect the gas pipe adapter as needed to the gas inlet port (labeled "Gas Inlet").

4.4 Connecting LED Panel

Connect the power cord of the LED panel to the designated port on the water heater.



Image: The Ranein Tankless Water Heater shown with its vent pipe installed, indicating a complete setup.

5. Operating Instructions

5.1 LED Control Panel

The unit features an LED display for temperature control and function selection.



Image: Close-up of the Ranein Tankless Water Heater's LED touch panel, showing temperature display and control buttons.

5.2 Temperature Adjustment

Use the up and down arrow buttons on the LED panel to adjust the desired water temperature. The temperature range is 95°F - 149°F.

5.3 Mode Switching (Four Seasons Temperature Function)

The water heater offers different modes for optimal performance across seasons or specific uses:

- **Four Seasons Temperature Function:** Touch the mode button (often indicated by a fan or flame icon) once to cycle through seasonal temperature settings.
- **Kitchen Function:** Touch the mode button twice to activate the kitchen function, which may optimize for lower flow rates typical of kitchen use.
- **Bathtub Function:** Touch the mode button three times to activate the bathtub function, which may optimize for higher flow rates needed for filling a tub.

Video: This video demonstrates how to switch between different operating modes (Four Seasons, Kitchen, Bathtub) on the Ranein Tankless Water Heater's LED control panel.

5.4 Water/Gas Flow Query

To check instantaneous or cumulative water/gas flow:

1. While the unit is running, press and hold the query button (often indicated by a square icon) for 3 seconds.
2. Within 5 seconds, the display will show the instantaneous water flow (L/min).
3. Press the query button again to view the instantaneous gas flow (m^3/h).
4. To view cumulative flow, stop the unit from running, then press and hold the query button for 3 seconds.
5. Within 5 seconds, the display will show the cumulative water flow.
6. Press the query button again to view the cumulative gas flow.

Video: This video illustrates how to query the instantaneous and cumulative water and gas usage on the Ranein Tankless Water Heater's LED display.

6. Maintenance

- Regularly inspect the exhaust pipe for any blockages or damage.
- Clean the water inlet filter periodically to prevent sediment buildup.
- If the unit will not be used for a long period, especially in cold weather, completely drain the water from the tank to prevent freezing and damage.
- Have the unit inspected by a qualified technician annually.

7. Troubleshooting (Error Codes)

The LED display will show error codes if a fault occurs. Refer to the table below for common error codes and their meanings:

Error Code	Fault Name
E0	Outlet Water Temperature Sensor is Faulty
E1	Ignition Failure
E2	Accidental Flameout
E3	Overtemperature Fault
E4	Inlet Water Temperature Sensor is Faulty
E5	DC Fan Malfunction
E7	Solenoid Valve Malfunction
E8	Fan Speed Exceeds The Limit
Eb	Residual Flame Fault
Eh	Timer Timeout

Error Code	Fault Name
Ec	Signal Communication Failure

For any persistent errors or issues not listed, contact Ranein customer support.

8. Specifications

Feature	Specification
Brand	Ranein
Model Number	RH13K-LPG
Power Source	Propane Gas
Product Dimensions	14.17"W x 23.15"H
Flow Rate	5.3 Gallons Per Minute (GPM)
Heat Output	130,000 British Thermal Units (BTU)
Maximum Temperature	155 Degrees Fahrenheit
Maximum Pressure	150 Pound per Square Inch (PSI)
Voltage	120 Volts (AC)
Mount Type	Wall
Special Feature	LED Display
Efficiency	Energy-efficient
Included Components	Assembly Kit x1, Manual x1, Tankless Water Heater x1, Vent Pipe x1

9. Warranty & Support

Ranein offers a **2-year manufacturer warranty** against manufacturing defects for this product.
For comprehensive product problem-solving, installation guidance, or product consultation, please contact the Ranein professional after-sales team.

- **Email:** service@ranein.net
- **US Phone:** (424)-452-2630

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