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› Ranein Natural Gas Tankless Water Heater User Manual

## Ranein RH10K

# Ranein Natural Gas Tankless Water Heater User Manual

Model: RH10K

## INTRODUCTION

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This user manual provides essential information for the safe and efficient operation of your Ranein Natural Gas Tankless Water Heater. Please read this manual thoroughly before installation, operation, or maintenance. Proper installation and maintenance are crucial for optimal performance and longevity of the unit.



Figure 1: Ranein Natural Gas Tankless Water Heater with included vent pipe.

## KEY FEATURES

- **High Performance:** Delivers instant and continuous hot water with a maximum flow rate of 4.3 GPM and a heating capacity of 100,000 BTU. Capable of supplying 2-3 water points simultaneously, suitable for household bathrooms, kitchens, and bar areas.

# Whole House Use

4.3<sub>GPM</sub> | 100000<sub>BTU</sub>



Figure 2: Illustration of the water heater's capacity for whole-house hot water supply.

- **Smart Modes:** Features specialized functions for enhanced convenience:
  - **Four Seasons Function:** Automatically adjusts water temperature output based on seasonal changes in incoming water temperature.
  - **Kitchen Function:** Default water output temperature set to 100°F (37.8°C) for typical kitchen use.
  - **Bathtub Function:** Allows adjustable water output quantity with a reminder when the set volume is reached.

# Smart Mode



**Bathtub Mode**



**Kitchen Mode**



**4-Seasons Mode**

Figure 3: Overview of the smart modes available on the water heater.

- **Instant Hot Water:** Eliminates the need for preheating, providing hot water on demand.



Figure 4: The unit provides steady hot water without waiting, as illustrated by the stable temperature graph.

- **Energy Efficiency:** Features an oxygen-free copper water tank to reduce heat loss and lower energy consumption. Includes an exhaust pipe, eliminating the need for a separate purchase.

# Our Advantages

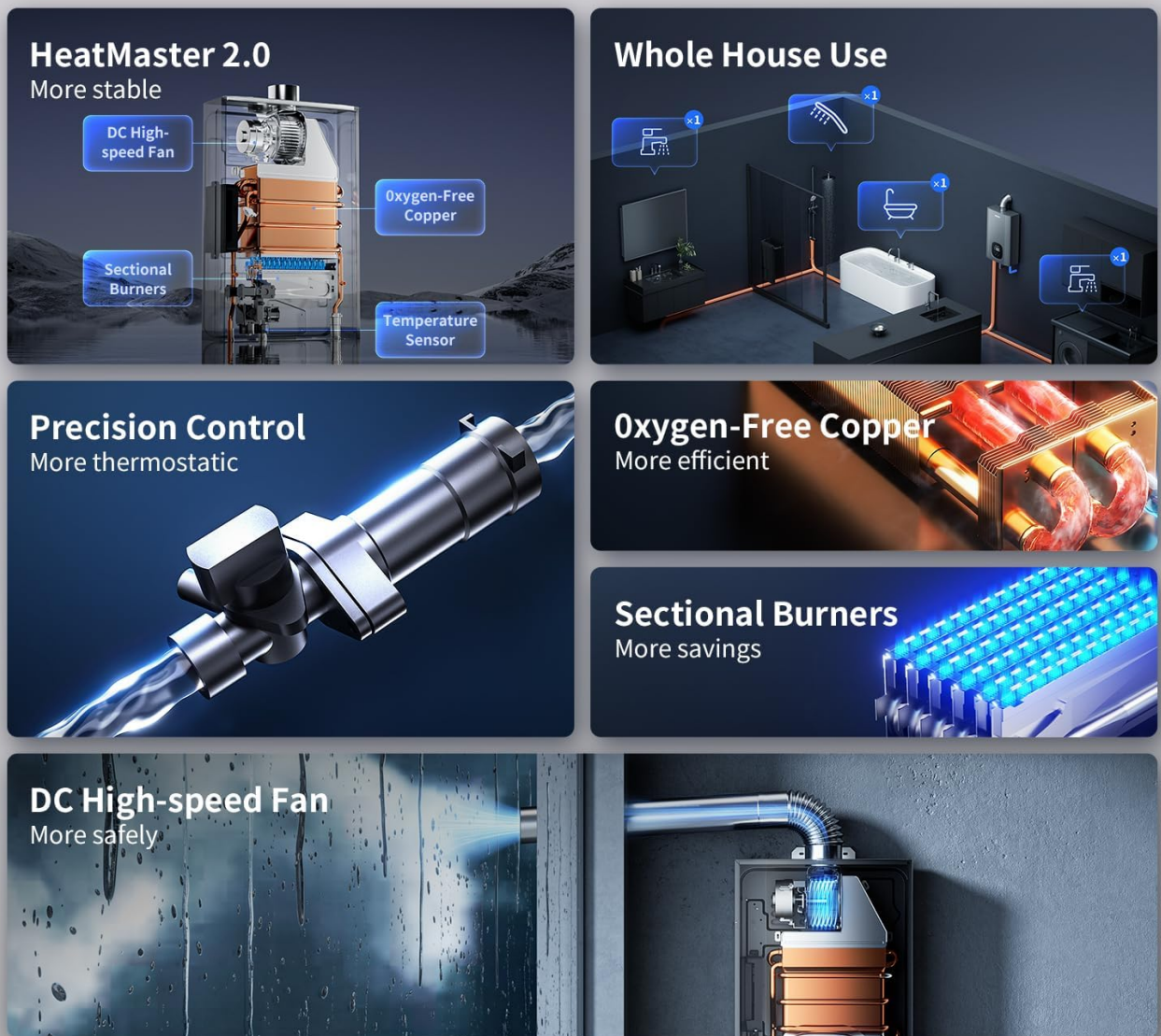


Figure 5: Overview of the Ranein water heater's advantages, highlighting its efficient components.

- **HeatMaster 2.0 Water Heating System:** Designed for stable combustion and greater heat utilization, incorporating a DC high-speed fan, oxygen-free copper, sectional burners, and a precise temperature sensor.

# HeatMaster 2.0 Water Heating System

More stable combustion. Greater heat utilization.

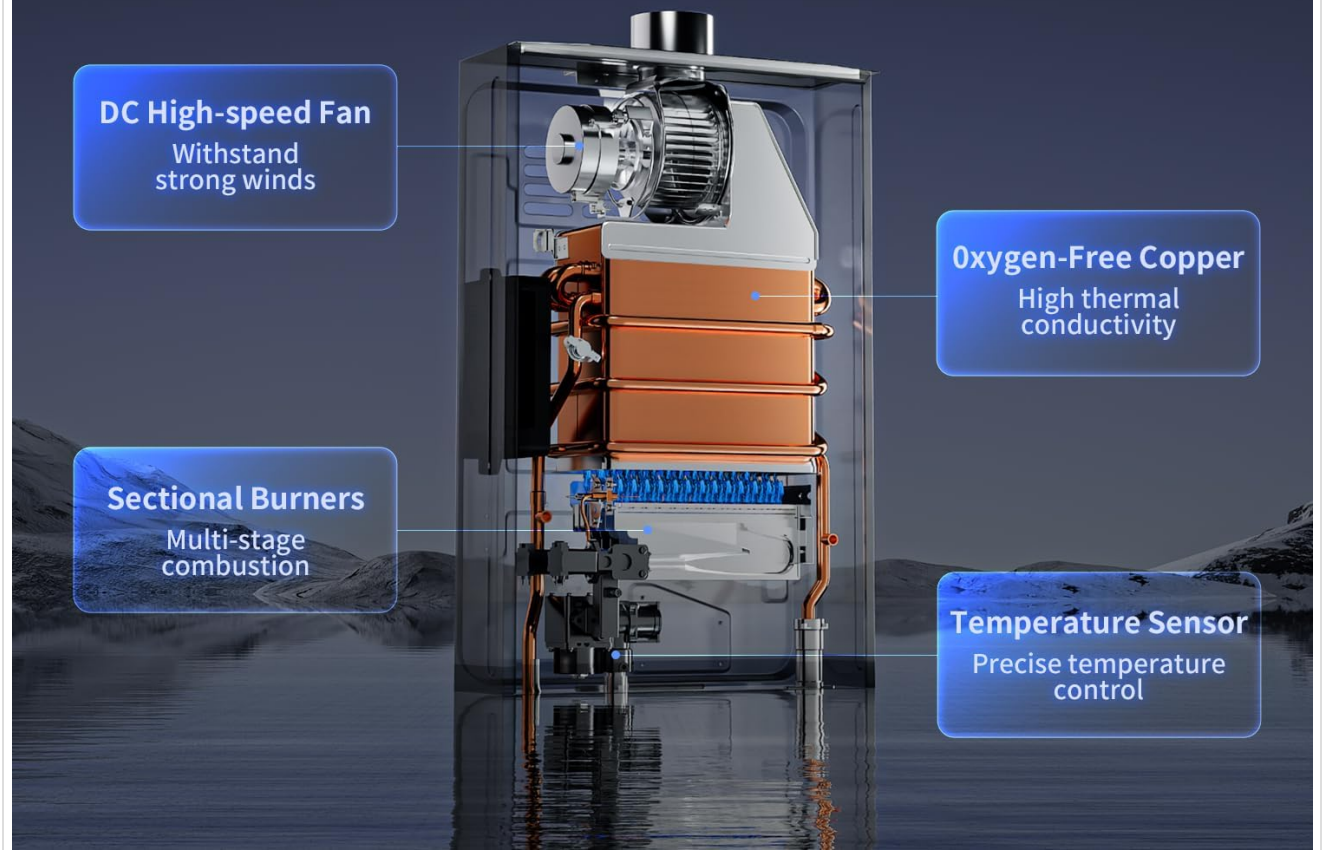


Figure 6: Internal components of the HeatMaster 2.0 system, showing the fan, copper heat exchanger, burners, and sensor.

- **High Definition Liquid Crystal Display:** Provides clear information, including gas and water usage data.

# High Definition Liquid Crystal Display

Ranein



Figure 7: The clear digital display provides real-time information about the unit's operation.

- **ADRC2.0 Adaptive Constant Temperature Algorithm:** Utilizes AI precision control for multi-point water supply without cold fluctuations.

# ADRC2.0 adaptive constant temperature algorithm

## AI precision control multi-point water without cold feeling

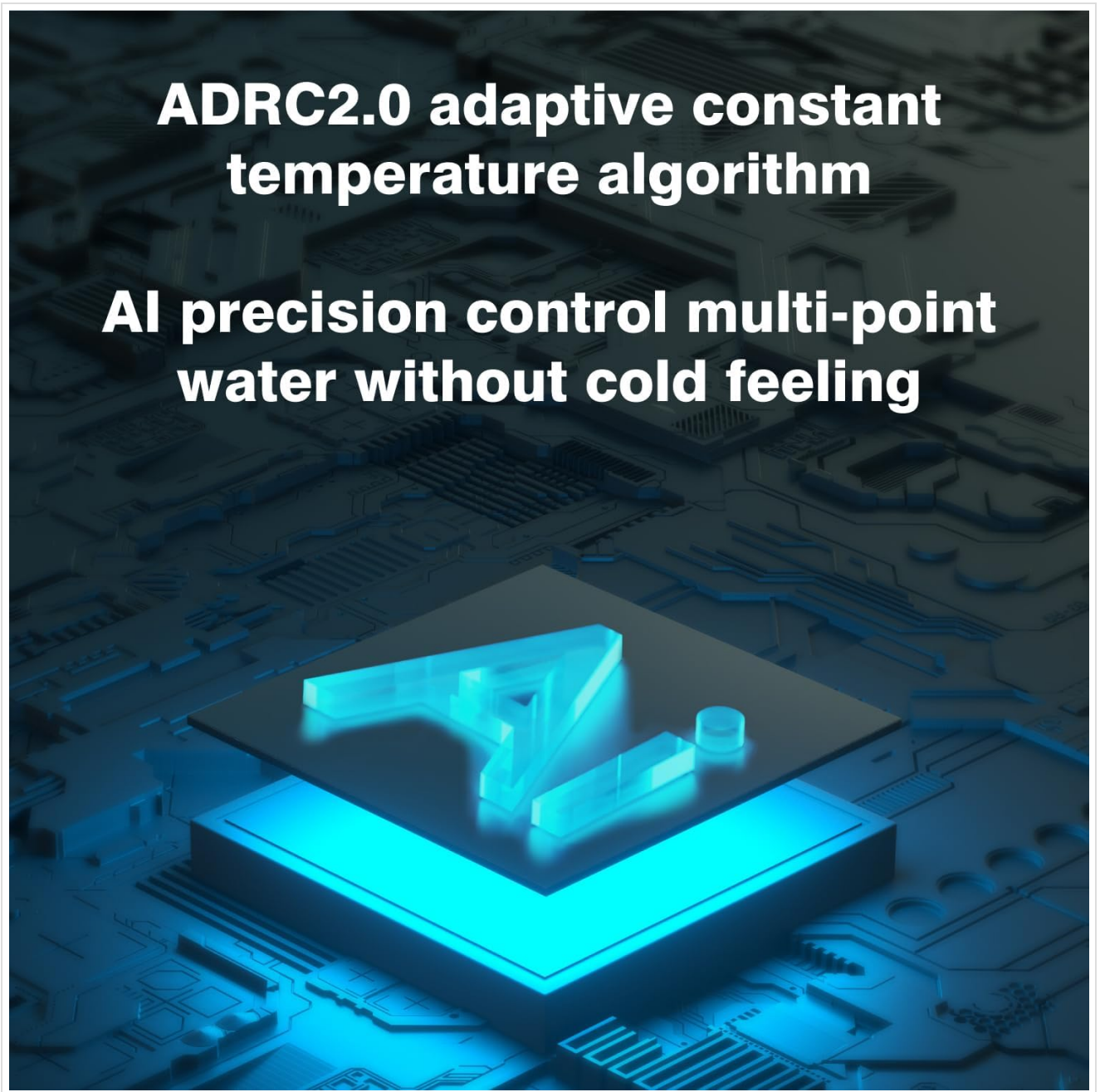


Figure 8: The advanced ADRC2.0 algorithm ensures stable water temperature.

- **Quiet Operation:** Designed to operate quietly, minimizing disturbance.

## SETUP AND INSTALLATION

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It is **strongly advised** that all installations of this device adhere to local building and plumbing regulations at the installation location. Installation should be carried out by licensed professionals to ensure safety and proper function.

### Included Components:

- Tankless Water Heater x1
- Use's Manual x1 (this document)
- Vent Pipe x1
- Assembly Kit x1

### Connection Interfaces:

The unit is applied with standard 1/2" NPT water fitting and gas inlet.

# Interface Size In Line With National Standards

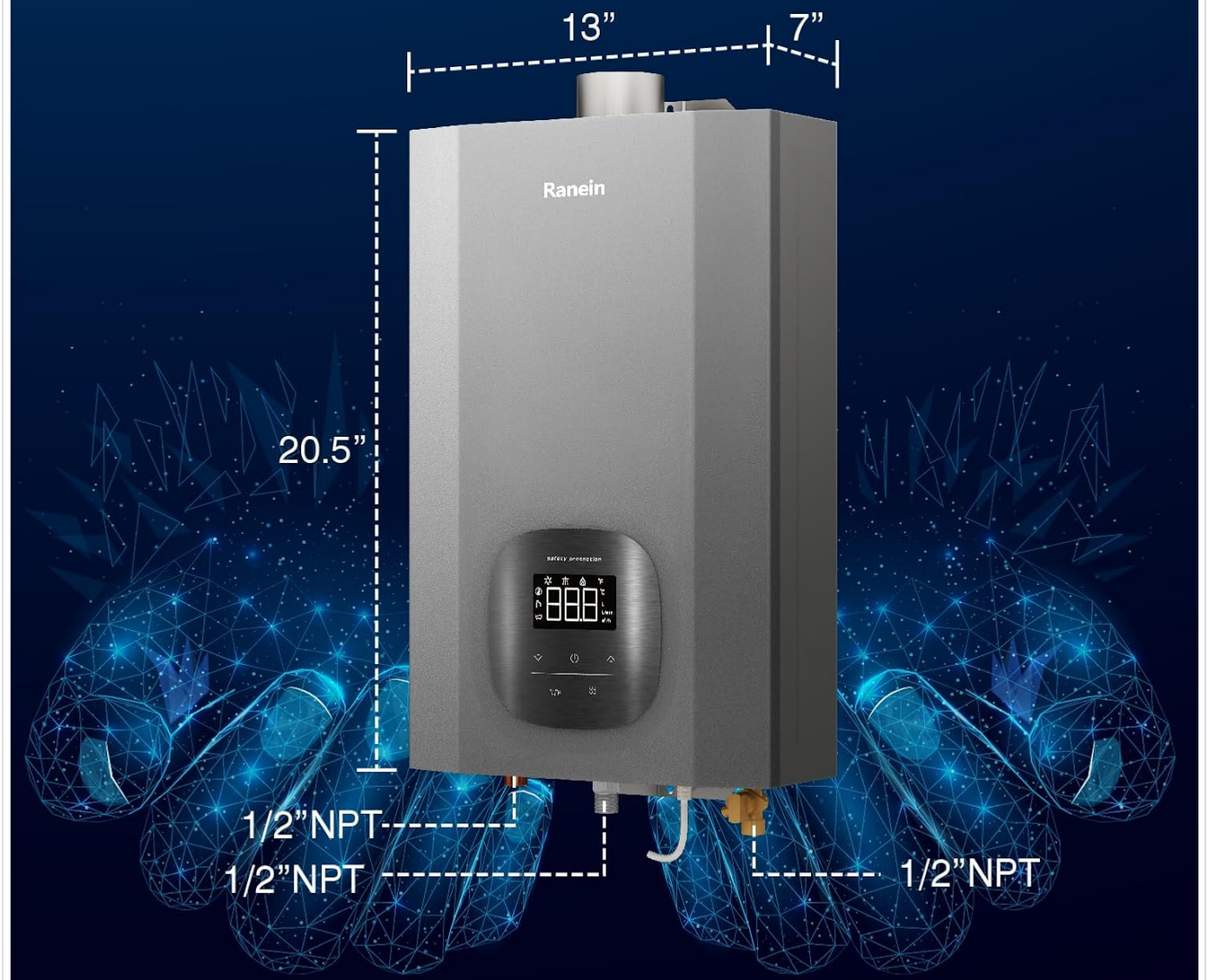


Figure 9: Dimensions and standard 1/2" NPT interface sizes for water and gas connections.

**Important Note:** This product is not recommended for areas over 2,000 feet in elevation.

## OPERATING INSTRUCTIONS

Once properly installed and connected, the Ranein Tankless Water Heater is designed for user-friendly operation via its digital display.

### Temperature Control:

Use the controls on the High Definition Liquid Crystal Display to set your desired water temperature. The unit's intelligent system will maintain this temperature consistently.

### Utilizing Smart Modes:

- **Four Seasons Function:** This mode automatically adapts to the ambient water temperature, optimizing heating for different seasons. No manual adjustment is typically needed for this function.

- **Kitchen Function:** Select this mode for a default water temperature of 100°F (37.8°C), ideal for washing dishes and other kitchen tasks.
- **Bathtub Function:** Activate this mode to set a specific volume of water for filling a bathtub. The unit will provide a reminder once the set volume is dispensed.

Refer to the on-screen prompts and the detailed user guide (PDF link provided in product documents) for specific navigation and selection of these modes.

## MAINTENANCE

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Regular maintenance ensures the longevity and efficient operation of your tankless water heater. While specific maintenance procedures are detailed in the full user guide, general recommendations include:

- Periodically inspect the vent pipe for any obstructions or damage.
- Ensure the area around the water heater is clear of debris and allows for proper ventilation.
- Consult a licensed professional for annual inspections and descaling to prevent mineral buildup, especially in hard water areas.
- In cold climates, take precautions to prevent freezing of the unit and water lines. Refer to the full user guide for winterization procedures.

## TROUBLESHOOTING

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If you encounter issues with your Ranein Tankless Water Heater, please refer to the comprehensive troubleshooting section in the full user guide (PDF). Common issues and their potential solutions include:

- **No Hot Water:** Check gas supply, water flow, and power connection. Ensure the unit is turned on and not displaying any error codes.
- **Inconsistent Temperature:** Verify water pressure and ensure no other hot water outlets are in use simultaneously if the unit's capacity is being exceeded. Check for mineral buildup.
- **Error Codes:** The digital display may show specific error codes. Consult the user guide for the meaning of each code and recommended actions.
- **Reduced Flow:** May indicate mineral buildup or a partially closed water valve.

For persistent problems or issues requiring technical expertise, contact a licensed professional or Ranein customer support.

## SPECIFICATIONS

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Attribute	Value
Brand	Ranein
Product Dimensions	18.89"W x 8.85"H
Color	Gray
Wattage	7.8 watts
Voltage	120 Volts (AC)
Maximum Flow Rate	4.3 Gallons Per Minute

Attribute	Value
Maximum Temperature	149 Degrees Fahrenheit
Heat Output	100,000 BTU
Efficiency	High Efficiency
Mounting Type	Wall
Is Electric	No (Natural Gas)
Item Weight	25.3 pounds
Item Model Number	RH10K

## WARRANTY AND SUPPORT

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Ranein offers comprehensive support for its products:

- **Product Protection:** The unit comes with 2 years of free service and 8 types of security protection features.
- **Technical Support:** Dedicated technical support is available to assist with any inquiries or issues.

For detailed warranty terms and to access technical support, please refer to the official Ranein website or the contact information provided in your purchase documentation.