Runnatal Propane Gas

Runnatal Tankless Water Heater User Manual

Model: Propane Gas

Product Overview

The Runnatal Tankless Water Heater provides instant hot water with constant temperature control. Designed for efficiency and convenience, it eliminates the need for preheating, delivering hot water as soon as the tap is turned on. This unit features a high-sensitive touch LED display for easy temperature adjustment and incorporates multiple safety protection methods to ensure reliable operation.



Figure 1: Front view of the Runnatal Tankless Water Heater with digital display.

Safety Information

Your safety is paramount. Please read and understand all safety instructions before installation and operation. Failure to follow these instructions could result in property damage, personal injury, or death.

- **Ventilation:** This product must be installed with a ventilation and smoke exhaust pipe for normal and safe use. Ensure proper ventilation to prevent carbon monoxide buildup.
- **Freezing Protection:** When the ambient temperature is below 32°F (0°C), it is crucial to drain any remaining water from the water heater after each use to prevent freezing and bursting of the heat exchanger or water pipes. Refer to the manual for detailed drainage procedures.
- **Leakage Protection:** The unit is equipped with leakage protection. Regularly inspect all connections for leaks. Test gas connections

with soap water after installation.

- **Over-temperature Protection:** The water heater includes protection against temperatures exceeding 149°F (65°C).
- **Dry Burning Protection:** Designed to prevent operation without water flow.



Figure 2: Visual representation of multiple safety features including thermal, dry heating, overvoltage, leakage, and self-check protection.



Figure 3: Important note on draining water to prevent freezing and rupture of pipes in cold temperatures.

Product Features

- **Instant Hot Water:** No preheating required. Water flows at your desired temperature immediately upon tap activation.
- **Smart LED Display:** High-definition digital LED display allows free temperature adjustment between 30°C-65°C (86°F-149°F).
- **Energy Efficiency:** Adjusts power input based on flow rate and temperature settings. Features Summer/Winter modes to optimize gas consumption.
- **Durable Construction:** Made with brushed stainless steel for high temperature and corrosion resistance. Features a built-in oxygen-free copper water tank for long service life.



Figure 4: Key features including portable design, stainless steel panel, sturdy bottom inlet, and widescreen smart digital display.



Figure 5: Explanation of the 5-section fire row for intelligent combustion in different seasons.



Figure 6: Details of the oxygen-free copper water tank, highlighting its high copper content and durable integrated welding process.

Setup and Installation

Proper installation is critical for the safe and efficient operation of your tankless water heater. Please follow the instructions carefully. For detailed visual guidance, refer to the official user guide PDF and installation videos.

1. **Unpacking:** Carefully remove the water heater and all components from the packaging.
2. **Mounting:** Select a suitable indoor location with proper ventilation. Securely mount the unit to a sturdy wall.
3. **Exhaust Pipe Installation:** Install the provided exhaust pipe, ensuring it passes through the wall to the outdoors. The flue diameter is 60mm.
4. **Gas and Water Connections:** Connect the gas and water pipes. The screws for the water pipe joint and gas inlet are G1/2". A 3/4NPT adapter is provided for US end-users. Ensure all connections are tight and leak-free. Test gas connections with soap water.
5. **Power Connection:** Plug in the power cable. The unit operates on 110 Volts (AC).

Important Note: Please download and read the installation manual and product manual carefully to ensure your installation environment is consistent with this product. When installing, strictly follow the installation manual and installation instruction video, otherwise it may not work.

Installation Videos:

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Video 1: User Installation and Operation Guide. This comprehensive video demonstrates the step-by-step process of installing and setting up the tankless water heater, including mounting, pipe connections, and initial power-up.

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Video 2: Unpacking the Water Heater. This short video shows the contents of the product packaging and how to safely unbox the unit.



Figure 7: Overview of simple installation and operation, showing the unit's placement within a home.



Figure 8: Proper exhaust pipe installation to vent waste gas outside and maintain fresh air indoors.

Operating Instructions

The tankless water heater is designed for user-friendly operation via its smart digital LED display.

- **Power On:** Ensure the unit is properly installed and connected to power and gas. The LED display will show the current water temperature.
- **Temperature Adjustment:** Use the touch controls on the LED display to set your desired water temperature between 30°C and 65°C. The display figures will blink while setting and become solid once the temperature is set.
- **Water Flow:** Open any hot water tap in your home. The unit will automatically activate and provide hot water at the set temperature.

Temperature Adjustment Videos:

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Video 3: Water Heater Temperature Adjustment (Example 1). This video demonstrates how to increase the water temperature using the control panel.

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Video 4: Water Heater Temperature Adjustment (Example 2). This video demonstrates how to decrease the water temperature using the control panel.

Maintenance

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

- **Winterization:** As mentioned in the safety section, always drain the unit when temperatures drop below 32°F (0°C) and the unit will not be in use for an extended period.
- **Regular Cleaning:** Periodically clean the exterior of the unit with a soft, damp cloth. Avoid abrasive cleaners.
- **Professional Inspection:** It is recommended to have a qualified technician inspect the unit annually to ensure all components are functioning correctly and to perform any necessary descaling or adjustments.

Troubleshooting

If you encounter issues with your water heater, refer to the following general troubleshooting tips. For specific error codes or complex problems, consult the detailed user manual or contact customer support.

- **No Hot Water:** Check gas supply, power connection, and water flow. Ensure the unit is powered on and the display is active.
- **Inconsistent Temperature:** Verify the set temperature on the LED display. Ensure adequate water pressure and flow rate.
- **Low Water Pressure:** Check for kinks in water lines or blockages in the inlet filter.
- **Error Codes:** If an error code appears on the display, refer to the "Troubleshooting" section of the comprehensive user manual for specific meanings and solutions.

Specifications

Attribute	Value
Brand	Runnatal
Product Dimensions	13.6"W x 21.2"H
Special Feature	LED Display
Color	Silver
Wattage	35 watts
Voltage	110 Volts (AC)
Maximum Flow Rate	3.17 Gallons Per Minute
Maximum Temperature	149 Degrees Fahrenheit
Heat Output	3717 Kilowatts
Style	Natural Gas, Indoor Installation
Item Weight	22 pounds
Item Model Number	Propane Gas

Figure 9: Detailed technical specifications of the Runnatal Tankless Water Heater.



Fire Row: 5	Item Weight: 22 Lbs
LED Screen: Included	Material: Brushed Stainless Steel
Rated Heat Load: 23 kW	Gas Supply: Propane
Working Water Pressure: 0.01-0.8MPa	Hot Water Outlet Volume: 12L/min (+25℃)

Figure 10: Visual representation of product dimensions and key specifications.

Warranty and Support

Runnatal is committed to providing quality products and excellent customer service. For any questions about the product, please contact us by email. We have a professional technical support team ready to assist you.
For detailed warranty information and further support, please refer to the official User Guide (PDF) provided with your product or available online:

Download User Guide (PDF)

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Do the summer and winter burners on the Runnatal JSQ23-D160 tankless water heater adjust automatically, and why is the water still too hot even when set to 30°C?

The Runnatal JSQ23-D160 tankless water heater features a "5-section fire row" designed for intelligent combustion across different seasons. While the unit adjusts power input based on flow rate and temperature settings, the Summer/Winter mode...

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