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Noritz NR501-OD-NG

Noritz NR50ODNG Outdoor Tankless Water Heater User Manual

Model: NR501-OD-NG | Brand: Noritz

1. Product Overview

The Noritz NR50ODNG is an outdoor tankless water heater designed to provide continuous hot water for residential applications. This unit operates on natural gas and offers a maximum flow rate of 5.0 gallons per minute (GPM) with a heating capacity of up to 120,000 BTUh. Its compact design is ideal for outdoor installation, saving valuable indoor space.

- **Endless Hot Water:** Provides hot water on demand, eliminating the need for a storage tank.
- **Ideal for Outdoor Applications:** Specifically designed and rated for exterior installation.
- **High Efficiency:** Engineered for optimal energy use, contributing to lower operating costs.
- **Low NOx:** Designed to produce low levels of nitrogen oxides, reducing environmental impact.

Figure 1: Front view of the Noritz NR50ODNG Outdoor Tankless Water Heater. This image displays the white casing, the Noritz logo, and the exhaust vent at the top.

2. Safety Information

Before installing, operating, or performing maintenance on this water heater, read and understand all safety instructions. Failure to follow these instructions could result in property damage, personal injury, or death.

- **Qualified Installer:** Installation and service must be performed by a qualified installer, service agency, or gas supplier.
- **Gas Type:** Ensure the unit is compatible with the gas type available (Natural Gas). Connecting to an incorrect gas supply can be extremely dangerous.
- **Ventilation:** Although designed for outdoor use, ensure proper clearance from windows, doors, and air intakes to prevent exhaust gas recirculation.
- **Water Temperature:** Hot water can cause severe burns. Set the temperature to the lowest comfortable setting to prevent scalding.
- **Freezing:** Protect the unit from freezing temperatures, which can cause severe damage.
- **Proposition 65 Warning:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

3. Setup and Installation

The Noritz NR50ODNG is designed for outdoor installation only. Proper installation is critical for safe and efficient operation. Refer to the full installation manual for detailed instructions and local code requirements.

- **Location:** Choose an outdoor location that is protected from direct impact, allows for proper clearances, and is accessible for service. Avoid areas prone to standing water or excessive dust.
- **Mounting:** Securely mount the unit to a sturdy wall or structure using appropriate fasteners.
- **Gas Connection:** Connect the unit to the natural gas supply. Ensure all gas connections are leak-free and comply with local codes.
- **Water Connections:** Connect the cold water inlet and hot water outlet. An IK-WV-200-1-XX-LF valve kit is required for installation and is sold separately. This kit is available with threaded or copper sweat connections.
- **Electrical Connection:** Connect the unit to a dedicated 120V electrical outlet as specified in the electrical requirements.
- **Condensate Drain:** Install a condensate drain line according to manufacturer instructions and local plumbing codes.

4. Operating Instructions

Once installed, operating the Noritz NR50ODNG is straightforward. The unit will automatically activate when a hot water faucet is opened and the flow rate meets the minimum activation requirement.

- **Power On:** Ensure the unit is plugged into a live electrical outlet and the gas supply valve is open.
- **Temperature Setting:** Adjust the desired hot water temperature using the unit's controls. Refer to the specific control panel instructions for your model. Typical residential settings range from 115°F to 120°F (46°C to 49°C).
- **Hot Water Demand:** Open any hot water faucet in your home. The water heater will sense the flow and begin heating water instantly.
- **Flow Rate:** For optimal performance, ensure the water flow rate is sufficient to activate the unit (typically around 0.5 GPM).
- **Shutdown:** The unit will automatically turn off when the hot water faucet is closed.

5. Maintenance

Regular maintenance ensures the longevity and efficient operation of your tankless water heater. It is recommended to have a qualified technician perform annual maintenance.

- **Flushing:** Periodically flush the heat exchanger to remove mineral buildup, especially in areas with hard water. This typically involves isolating the unit, connecting a pump, and circulating a descaling solution.
- **Inlet Screen Filter:** Inspect and clean the inlet screen filter regularly to prevent debris from entering the unit.
- **Ventilation and Clearances:** Ensure that the area around the unit remains clear of obstructions and debris to allow for proper airflow and exhaust.
- **Gas and Water Connections:** Periodically check all gas and water connections for leaks.
- **Freeze Protection:** During cold weather, ensure the unit's built-in freeze protection is functioning, or take additional measures if necessary (e.g., draining the unit if it will be off for extended periods in freezing temperatures).

6. Troubleshooting

This section provides solutions to common issues. For more complex problems, contact a qualified service technician.

Problem	Possible Cause	Solution
No hot water	No power, gas supply off, low water flow, unit lockout.	Check power supply, ensure gas valve is open, increase water flow, reset unit by cycling power.
Water not hot enough	Temperature setting too low, excessive flow rate, mineral buildup.	Increase temperature setting, reduce flow, perform heat exchanger flush.
Unit cycles on/off rapidly	Insufficient water flow, air in water lines, partially closed valve.	Ensure adequate flow, bleed air from lines, check all valves are fully open.
Error code displayed	Specific internal issue.	Consult the full user manual for specific error code definitions and solutions, or contact customer support.

7. Specifications

Key technical specifications for the Noritz NR50ODNG Outdoor Tankless Water Heater.

Feature	Detail
Model Number	NR501-OD-NG
Brand	Noritz
Product Dimensions	17.6"W x 26.6"H
Item Weight	33 pounds
Power Source	Natural Gas
Wattage	36000 watts
Voltage	120 Volts
Maximum Flow Rate	5 Gallons Per Minute
Efficiency	High, Energy Star Certified

Feature	Detail
Mounting Type	Wall
UPC	817000012991

8. Warranty Information

Noritz provides the following limited warranty for the NR50ODNG model:

- **Heat Exchanger:** 12 Years
- **Parts:** 5 Years
- **Labor:** 1 Year

Please retain your proof of purchase for warranty claims. For full warranty terms and conditions, refer to the official Noritz warranty document or contact Noritz customer support.

9. Customer Support and Further Resources

For technical assistance, service, or additional information, please contact Noritz customer support. You can also find more detailed documentation online.

- **Official User Manual (PDF):** For comprehensive installation, operation, and maintenance details, please download the official PDF manual: Noritz NR50ODNG User Manual
- **Noritz Website:** Visit the official Noritz website for product registration, FAQs, and authorized service providers.

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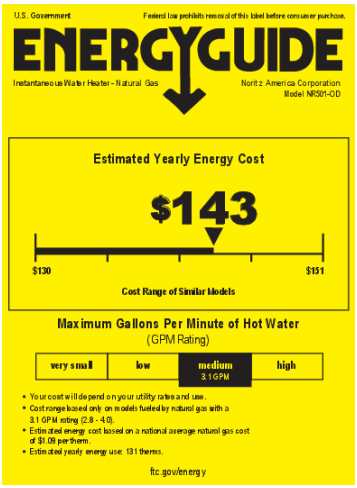
Related Documents

	Noritz NR501 Series Residential Tankless Water Heater Specification Sheet Detailed specifications for the Noritz NR501 Series Residential Tankless Water Heater, including performance, dimensions, safety features, and approvals. This outdoor model offers efficient heating with various temperature controls and limited warranties.
	Noritz NRCB199DV Boiler Specifications | ENERGY STAR Certified Detailed specifications for the Noritz NRCB199DV boiler, ENERGY STAR certified. Includes model number, fuel type, efficiency, and market availability.

	[Noritz NRCB180DV Boiler Specifications - ENERGY STAR Certified] Detailed specifications for the Noritz NRCB180DV boiler, a Natural Gas and Propane Gas unit with 95% AFUE, certified by ENERGY STAR. Includes model information and market availability.
	[Noritz NRCB180DV Boiler Specifications | ENERGY STAR Certified] Detailed specifications for the Noritz NRCB180DV boiler, ENERGY STAR certified. Includes model number, fuel type, efficiency, and market availability.

Documents - Noritz – NR501-OD-NG



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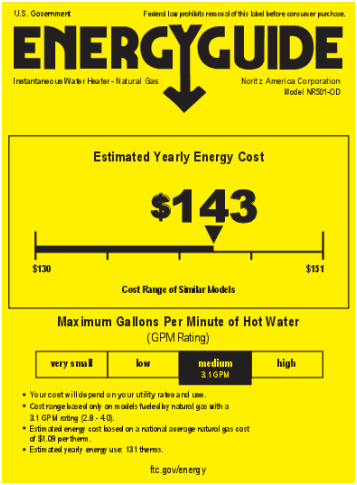

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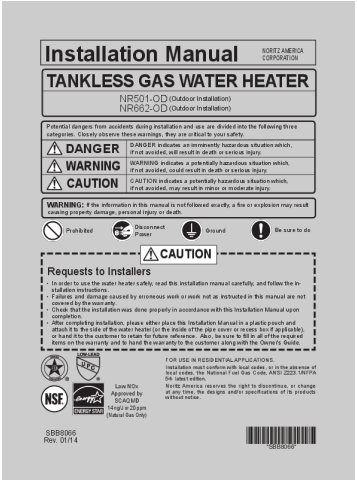

[pdf] User Manual Installation Guide Instructions Warranty

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Installation Manual NORITZAMERICA CORPORATION TANKLESS GAS WATER HEATER NR501-OD Outdoor Installation NR662-OD Outdoor Installation Potential dangers from accidents during installation and use are divided into the following three categories. Closely observe these warnings, they are critical to...

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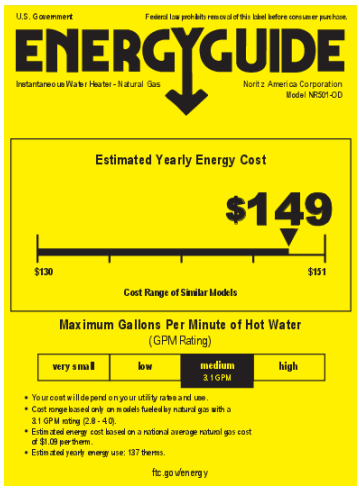

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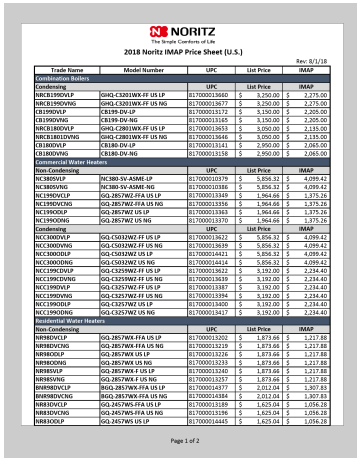

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Javier Pacheco 2018 Noritz IMAP Price Sheet U S noritz 80 09

2018 Noritz IMAP Price Sheet U.S. Rev: 8/1/18 Trade Name Model Number UPC List Price IMAP C ... GQ-2457WS-FFA US NG NR66ODLP NR662-OD-LP NR66ODNG NR662-OD-NG NR50ODLP NR501-OD-LP NR50ODNG **NR501-OD-NG** Condensing NRC111DVLP GQ-C3257WX-FF US LP NRC111DVNG GQ-C3257WX-FF US NG NRC111ODL...

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