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› Nessxa 14L Natural Gas Tankless Water Heater Model 14N User Manual

Nessxa 14N

Nessxa 14L Natural Gas Tankless Water Heater

Model: 14N - User Manual

Introduction	Safety Information	Package Contents	Specifications	Setup & Installation
	Operating Instructions	Maintenance	Troubleshooting	Warranty & Support

1. INTRODUCTION

Thank you for choosing the Nessxa 14L Natural Gas Tankless Water Heater. This appliance is designed to provide instant, on-demand hot water for various indoor applications, eliminating the need for a storage tank. With a flow rate of up to 3.7 GPM and a 95,540 BTU natural gas input, it offers efficient and continuous hot water supply. This manual provides essential information for safe installation, operation, and maintenance of your water heater.



Figure 1: Nessxa 14L Natural Gas Tankless Water Heater. This image displays the compact design of the main unit, featuring the digital display and control panel.

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before installing or operating this appliance. Failure to follow these instructions may result in property damage, personal injury, or death.

- **Professional Installation:** Installation, adjustment, alteration, service, or maintenance must be performed by a qualified installer or service agency.
- **Gas Type:** This unit is designed for **Natural Gas** only. Do not attempt to use it with Propane (LPG) or any other gas type.
- **Ventilation:** Ensure proper ventilation as required by local codes. This appliance produces combustion gases

that must be safely vented outdoors.

- **Water Connections:** All water connections must be secure and leak-free. Do not overtighten fittings.
- **Electrical Grounding:** Ensure the unit is properly grounded to prevent electrical shock.
- **Temperature Settings:** Be aware that water temperatures can reach up to 131°F (55°C). Exercise caution to prevent scalding.
- **Freezing:** Protect the unit from freezing temperatures. Damage due to freezing is not covered by warranty.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before proceeding with installation.

- Nessxa 14L Natural Gas Tankless Water Heater Unit
- Mounting Hardware (screws, anchors)
- User Manual and Installation Guide
- Pressure Relief Valve (may be included or sold separately depending on region)

4. SPECIFICATIONS

WATER HEATER SPECIFICATION

Height:21.7"

Length:13.8"

Widty:6.3"

Hot Water Output: 3.7 GPM

Nominal Heat Input: 28 KW

Ignition Type: Auto Ignition Device

Rated Voltage: 110 Volts

Minimum Water Head Required: 3.62 PSI

Gas Type: Natural Gas

Inlet Gas Pressure: 2.0 kpa

Max Water Pressure: 140 PSI



water outlet

Gas inlet

water inlet

1/2" NPT



Figure 2: Detailed specifications and dimensions of the Nessxa 14L Natural Gas Tankless Water Heater, including hot water output, nominal heat input, and connection types.

Feature	Detail
Brand	Nessxa
Model Number	14N
Capacity	14 Liters (3.7 GPM)
Power Source	AC (110 Volts)
Product Dimensions (W x H)	17.32" x 28.54"
Gas Type	Natural Gas
Nominal Heat Input	95,540 BTU (28 KW)
Maximum Temperature	131°F (55°C)
Minimum Water Head Required	3.62 PSI
Max Water Pressure	140 PSI
Inlet Gas Pressure	2.0 kPa
Ignition Type	Auto Ignition Device
Mount Type	Wall
Material Type	Metal
Color	White

HIGH-EFFICIENCY GAS WATER HEATER



DC Inverter Fan

Thermal efficiency over 90%.

Oxygen-Free Copper Exchanger

Rapid heating with $\pm 1^{\circ}\text{C}$ precise temp control.

Instant & Safe Operation

3-second instant heat (no preheating)
10-layer safety protection

Figure 3: Internal view highlighting the DC Inverter Fan and Oxygen-Free Copper Exchanger, demonstrating the high-efficiency design.

5. SETUP & INSTALLATION

Installation must be performed by a qualified professional in accordance with all local and national plumbing and gas codes.

5.1 Pre-Installation Checks

- Confirm the gas supply is Natural Gas.
- Ensure adequate ventilation and proper exhaust routing to the outdoors.
- Verify water pressure is within the specified range (3.62 PSI minimum, 140 PSI maximum).
- Choose an indoor location protected from freezing, with sufficient space for maintenance.

5.2 Mounting the Unit

1. Select a sturdy wall capable of supporting the unit's weight.

2. Mark the mounting points using the provided template or unit dimensions.
3. Drill pilot holes and insert wall anchors if necessary.
4. Securely mount the water heater to the wall using the provided hardware.

5.3 Water and Gas Connections

WATER HEATER SPECIFICATION

Height: 21.7"

Length: 13.8"

Width: 6.3"

Hot Water Output: 3.7 GPM

Nominal Heat Input: 28 KW

Ignition Type: Auto Ignition Device

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Minimum Water Head Required: 3.62 PSI

Gas Type: Natural Gas

Inlet Gas Pressure: 2.0 kpa

Max Water Pressure: 140 PSI





1/2" NPT

Figure 4: Close-up view of the water inlet, gas inlet, and water outlet connections, typically 1/2" NPT.

1. Connect the cold water inlet (typically on the right) to your cold water supply.
2. Connect the hot water outlet (typically on the left) to your hot water distribution system.
3. Install a pressure relief valve on the hot water outlet as required by local codes.
4. Connect the natural gas supply line to the gas inlet. Ensure all gas connections are sealed and tested for leaks.

5.4 Electrical Connection

- Connect the unit to a grounded 110V AC electrical outlet.
- Ensure the circuit is dedicated and properly fused.

6. OPERATING INSTRUCTIONS

The Nessxa tankless water heater provides instant hot water on demand. Follow these steps for proper operation.

6.1 Initial Startup

1. Ensure all water and gas connections are secure and leak-free.
2. Open the cold water supply valve to the unit.
3. Open a hot water faucet in your home to purge air from the water lines. Allow water to flow until it runs smoothly without sputtering.
4. Close the hot water faucet.
5. Open the gas supply valve to the unit.
6. Plug the unit into the grounded 110V AC outlet. The digital display should illuminate.

6.2 Temperature Adjustment

TRADITIONAL TANK WATER HEATER

- ⊗ Slow Preheating
- ⊗ Limited Hot Water
- ⊗ Constant Energy Drain
- ⊗ Bulky Energy Waste
- ⊗ Temp Fluctuations
- ⊗ Complex Operation

OUR TANKLESS WATER HEATER

- ✔ Instant Heat & No Preheating
- ✔ Unlimited Supply
- ✔ 90% Energy Savings
- ✔ Smart Clear Screen
- ✔ Precise Temp Control
- ✔ One Click Operation

Figure 5: The digital display shows the current water temperature in Fahrenheit, with up/down arrows for adjustment and a power button.

- The unit features a Fahrenheit digital display.
- Use the **Up** and **Down** arrow buttons on the control panel to set your desired hot water temperature.
- The unit will automatically adjust its heating output to maintain the set temperature as water flows through it.

6.3 Hot Water Delivery



Figure 6: Examples of common household uses for instant hot water, including washing face, dishes, showering, and washing vegetables.

- Open any hot water faucet in your home. The unit will detect water flow and ignite to heat the water.
- Hot water will be delivered within seconds.
- The 3.7 GPM capacity supports multiple fixtures simultaneously, depending on the temperature rise required.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your tankless water heater. Always turn off the gas and electrical supply before performing any maintenance.

7.1 Cleaning the Water Inlet Filter

- Locate the small mesh filter on the water inlet line.
- Periodically inspect and clean this filter to prevent clogs, which can reduce water flow and affect ignition.
- Turn off water supply, remove the filter, rinse it under running water, and reinstall.

7.2 Descaling

- In areas with hard water, mineral buildup (scale) can reduce efficiency.
- It is recommended to descale the unit annually or as needed by a qualified technician.
- Descaling involves circulating a descaling solution through the heat exchanger.

7.3 General Inspection

- Regularly check for any signs of leaks around water or gas connections.
- Ensure the exhaust vent is clear and unobstructed.
- Keep the area around the water heater clear of combustible materials.

8. TROUBLESHOOTING

If you encounter issues with your water heater, refer to the following common problems and solutions. For complex issues, contact a qualified service technician.

Problem	Possible Cause	Solution
No hot water / Unit not igniting	<ul style="list-style-type: none">◦ No gas supply◦ No water flow or insufficient water pressure◦ Clogged water inlet filter◦ Electrical power issue	<ul style="list-style-type: none">◦ Check gas valve is open.◦ Ensure water supply is open and pressure is adequate.◦ Clean the water inlet filter (see Maintenance).◦ Check power cord and circuit breaker.
Fluctuating water temperature	<ul style="list-style-type: none">◦ Inconsistent water flow◦ Unit undersized for demand◦ Mineral buildup in heat exchanger	<ul style="list-style-type: none">◦ Ensure stable water flow. Avoid mixing hot and cold water at the faucet.◦ Reduce simultaneous hot water usage.◦ Consider professional descaling.
Low hot water flow	<ul style="list-style-type: none">◦ Clogged water inlet filter◦ Sediment buildup in pipes or unit	<ul style="list-style-type: none">◦ Clean the water inlet filter.◦ Professional descaling may be required.
Unit displays an error code	<ul style="list-style-type: none">◦ Internal malfunction or sensor error	<ul style="list-style-type: none">◦ Refer to the specific error code in the full manual (if available) or contact customer support.◦ Try resetting the unit by unplugging it for 30 seconds and plugging it back in.

9. WARRANTY & SUPPORT

Nessxa products are manufactured to high-quality standards. Specific warranty details, including coverage period and terms, are typically provided with your product at the time of purchase or can be found on the official Nessxa website.

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Nessxa customer support. Have your model number (14N) and purchase information ready when contacting support.

- **Online Support:** Visit the official Nessxa website for FAQs, product registration, and contact forms.
- **Email Support:** Refer to your product packaging or the Nessxa website for the customer service email address.
- **Phone Support:** Refer to your product packaging or the Nessxa website for customer service phone numbers.