

forimo CT1312-HWRSQ

forimo 16L Natural Gas Tankless Water Heater Instruction Manual

MODEL: CT1312-HWRSQ

1. Introduction

Thank you for choosing the forimo 16L Natural Gas Tankless Water Heater. This appliance is designed to provide on-demand hot water efficiently and reliably. To ensure safe and optimal performance, please read this instruction manual thoroughly before installation, operation, or maintenance. Keep this manual for future reference.

This tankless water heater is suitable for indoor installation and operates on Natural Gas (LNG), delivering approximately 4.21 gallons per minute (16 liters per minute) of hot water. It features a digital display for temperature control and multiple safety mechanisms.

2. Important Safety Information

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

- **Gas Type:** This unit is designed exclusively for Natural Gas (LNG). Do not attempt to use it with Propane (LPG) or any other gas type. Verify your gas supply matches the appliance specifications.
- **Professional Installation:** Installation and service must be performed by a qualified installer, service agency, or gas supplier. Ensure all local codes and regulations are followed.
- **Ventilation:** Proper ventilation is critical. This product must be installed with appropriate venting and a smoke exhaust pipe to prevent carbon monoxide accumulation. Install the heater as close to a vent or chimney as possible.
- **Water Pressure:** A minimum water pressure of 3.6 PSI (0.02 MPa) is required for operation. Ensure your water supply meets this requirement.
- **Freezing Protection:** In cold weather, if the water heater is not used for an extended period, it is necessary to open the pressure relief valve to drain residual water from inside the unit to prevent freezing damage.
- **Electrical Connection:** Ensure the electrical supply is 110V, 60Hz as specified.
- **Safety Features:** The unit includes Flame Failure Device, Overheating Protection, Dry-burning Protection, Anti-Freezing Protection, Water-Gas Interlock, Delay Ignition Protection, Water Flow Stabilization, and 20-Min Overtime Protection. Do not bypass or tamper with these safety features.

MULTIPLE PROTECTIONS

Install your heater as close to a vent or chimney as possible to reduce risks



Image 2.1: Overview of the multiple protection features integrated into the water heater, including flame out, water-gas interlock, dry-burning, delay ignition, anti-freezing, water flow stabilization, overheat, and 20-minute overtime protection.

3. Package Contents

Upon unpacking, please verify that all components are present and undamaged:

- forimo 16L Natural Gas Tankless Water Heater Unit
- 2.4-inch Horizontal Vent Pipe
- Water Inlet Hose (typically blue or silver)
- Gas Inlet Hose (typically yellow)
- Hot Water Outlet Hose (typically red or silver)
- Mounting Hardware (screws, anchors)
- Instruction Manual (this document)



Image 3.1: The forimo 16L Natural Gas Tankless Water Heater unit shown with its accompanying installation accessories, including hoses and vent pipe.

4. Specifications

Refer to the table below for detailed technical specifications of your forimo 16L Natural Gas Tankless Water Heater.



Image 4.1: A visual representation of the product specifications, including dimensions, rated heat load, gas pressure, gas type, ignition type, suitable water pressure, and power supply.

Feature	Specification
Brand	forimo
Model Number	CT1312-HWRSQ
Capacity	16 Liters (4.21 GPM)
Power Source	Natural Gas (LNG)
Product Dimensions (W x H)	13.8" x 21.7"
Item Weight	21.9 Pounds
Maximum Temperature	75 Degrees Celsius

Feature	Specification
Heat Output	81,888 British Thermal Units (BTU/hour)
Minimum Water Pressure	3.6 PSI (0.02 MPa)
Mount Type	Wall
Color	Black
Special Features	Anti-Freezing Protection, Flame Failure Protection, Overheat Protection, Digital Display

5. Installation

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

5.1 Pre-Installation Checklist

- Confirm the gas type available at the installation site is Natural Gas (LNG).
- Ensure adequate ventilation and a suitable location for the exhaust vent pipe.
- Verify the water supply pressure meets the minimum requirement of 3.6 PSI.
- Select an indoor location that is protected from freezing temperatures and has sufficient space for maintenance.
- Ensure a 110V, 60Hz electrical outlet is available near the installation location.

5.2 Mounting the Unit

1. Choose a sturdy wall surface capable of supporting the weight of the water heater.
2. Mark the drilling points for the mounting brackets using the provided template or measurements.
3. Drill holes and insert appropriate wall anchors.
4. Securely mount the water heater to the wall.

5.3 Connecting Water and Gas Lines

The water heater is applied with standard 1/2" NPT water fittings and gas inlet.

1. Connect the blue water pipe (cold water supply) to the cold water inlet on the unit. Ensure a tight, leak-free connection.
2. Connect the yellow gas pipe to the gas inlet on the unit. Use appropriate gas-rated sealant and tools to ensure a secure, leak-free connection.
3. Connect the red hose to the hot water outlet.
4. Connect the power cable to a grounded 110V, 60Hz electrical outlet.
5. Install the 2.4-inch horizontal vent pipe according to manufacturer guidelines and local codes to ensure proper exhaust of combustion gases.

CONSTANT TEMPERATURE WITHOUT COLDNESS

Instant start, efficient combustion, provide hot water anytime, anywhere

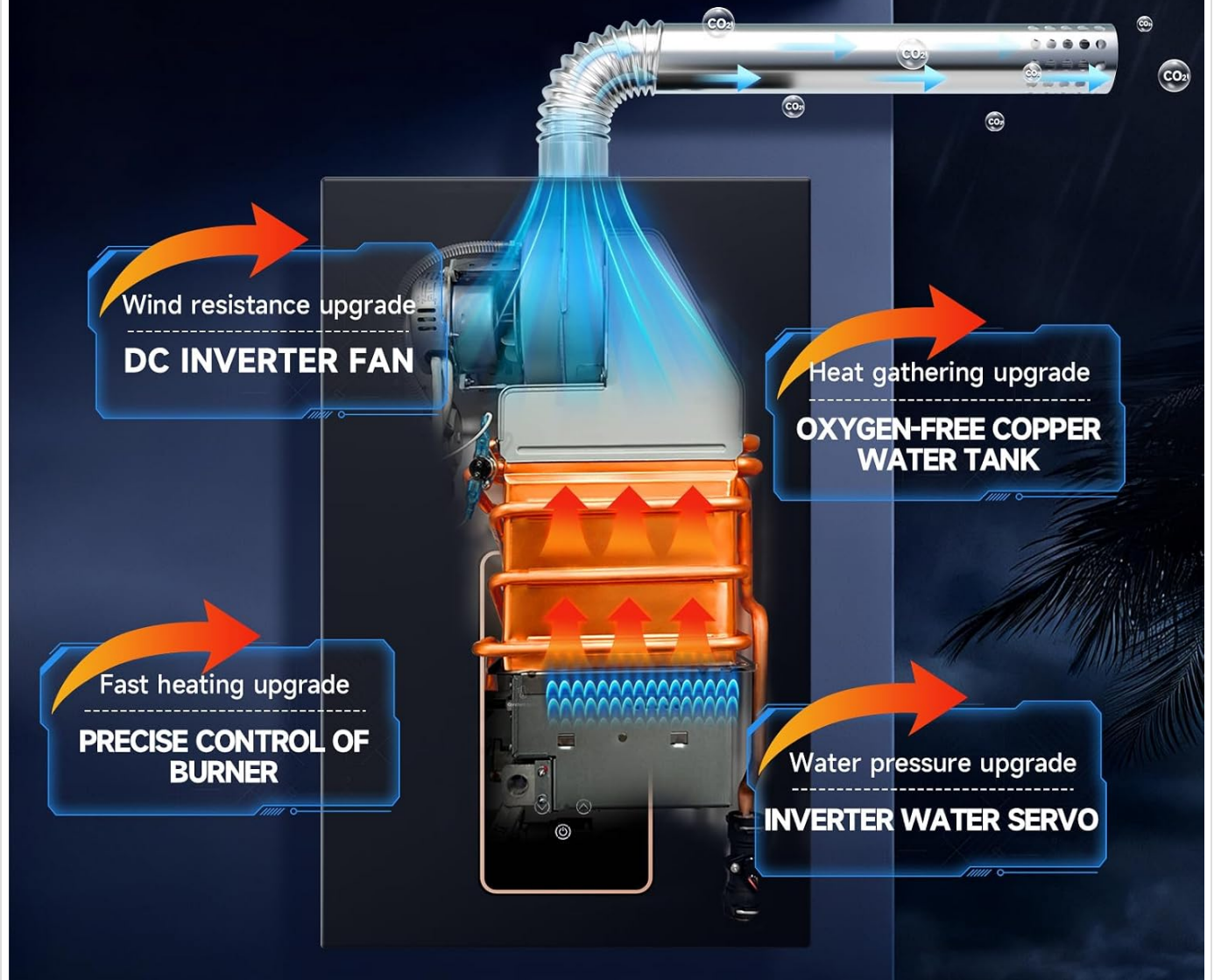


Image 5.1: Detailed view of the water inlet, gas inlet, and water outlet connections, demonstrating how to connect the corresponding pipes for installation.

Your browser does not support the video tag.

Video 5.1: An official product video demonstrating the installation process, including connecting water and gas lines, and showcasing the internal workings of the tankless water heater.

6. Operating Instructions

The forimo tankless water heater features an LED smart digital display for easy temperature adjustment and monitoring.

6.1 Digital Display Overview

The touch screen display shows the current water temperature and provides controls for power and temperature adjustment. Indicators for multi-protection, heating fast, energy saving, constant temperature, low pressure start-up, and health bath are also present.

6.2 Adjusting Temperature

1. Ensure the unit is powered on.
2. Use the 'Up' and 'Down' arrows on the touch screen to adjust the desired water temperature. The temperature can be set between 38°C and 75°C (100°F to 167°F).
3. The unit will automatically adjust its operation to maintain the set temperature, providing a stable hot water supply.



Image 6.1: The intelligent and clear touch screen display, showing temperature settings and various operational indicators.

7. Maintenance

Regular maintenance ensures the longevity and efficient operation of your water heater.

7.1 Regular Cleaning

- Periodically wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Inspect the vent pipe for any obstructions or damage. Ensure it is clear for proper exhaust.
- If you live in an area with hard water, consider installing a water treatment system to prevent mineral buildup in the heat exchanger, which can reduce efficiency and lifespan.

7.2 Winterization (Cold Weather Operation)

To prevent damage from freezing in cold climates, especially if the unit will be unused for an extended period:

1. Turn off the gas supply to the water heater.
2. Turn off the water supply to the water heater.
3. Open a hot water faucet in your home to relieve pressure.
4. Locate the pressure relief valve on the water heater and open it to drain all residual water from the unit.
5. Once drained, close the pressure relief valve and the hot water faucet.

8. Troubleshooting

This section provides solutions for common issues you might encounter. For problems not listed here or if solutions do not resolve the issue, contact qualified service personnel.

Problem	Possible Cause	Solution
No hot water	No gas supply, low water pressure, power outage, flame failure.	Check gas valve, verify water pressure, ensure power is on, reset unit if necessary.
Water not hot enough	Temperature setting too low, high flow rate, cold incoming water.	Increase temperature setting, reduce water flow, check for mineral buildup.
Unit cycles on/off frequently	Insufficient water flow, air in water lines, sensor issue.	Ensure adequate water flow, bleed air from lines, contact service.
Error code on display	Specific malfunction detected by the unit.	Refer to the specific error code in the full manual (if available) or contact customer support.
Water leakage	Loose connections, damaged pipes, internal component failure.	Immediately turn off water and gas supply. Tighten connections or contact a plumber.

9. Warranty and Support

Your forimo 16L Natural Gas Tankless Water Heater is covered by a manufacturer's warranty. Please refer to the warranty card included with your purchase for specific terms, conditions, and duration. Keep your proof of purchase for warranty claims.

For technical assistance, troubleshooting beyond this manual, or warranty service, please contact forimo customer support. Contact information can typically be found on the product packaging or the official forimo website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question