

## forimo CT1412-HWRSQ

# forimo Propane Tankless Water Heater 16L

MODEL: CT1412-HWRSQ

## 1. INTRODUCTION

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This manual provides essential information for the safe installation, operation, and maintenance of your forimo 16L Propane Tankless Water Heater, Model CT1412-HWRSQ. Please read this manual thoroughly before installation and use to ensure proper function and to prevent potential hazards. Keep this manual for future reference.

## 2. SAFETY INSTRUCTIONS

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Failure to follow these safety instructions could result in property damage, personal injury, or death. Always consult with a qualified professional for installation and service.

- **Gas Safety:** This appliance uses Propane (LPG). Ensure proper ventilation and check for gas leaks after installation. Do not store flammable materials near the heater.
- **Ventilation:** Proper ventilation is critical. Install the heater with a smoke exhaust pipe as specified to prevent carbon monoxide accumulation.
- **Water Pressure:** Ensure water pressure is within the specified range (0.02-0.8 MPa) to prevent damage and ensure efficient operation.
- **Freezing Protection:** In cold climates, drain the water heater if it will not be used for an extended period to prevent freezing damage.
- **Electrical Connection:** Ensure the electrical supply matches the heater's requirements (110V, 60Hz) and is properly grounded.
- **Professional Installation:** Installation and servicing should be performed by a qualified and licensed professional in accordance with local codes and regulations.

## 3. PRODUCT OVERVIEW

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### 3.1 Components and Features

The forimo 16L Propane Tankless Water Heater is designed for efficient, on-demand hot water supply. It includes various safety features and a user-friendly interface.



Image 1: forimo 16L Propane Tankless Water Heater and included installation accessories.

- **Constant Temperature Control:** Maintains a stable water temperature.
- **Quick Heating:** Provides hot water rapidly upon demand.
- **Multi-Protection System:** Includes flame failure, anti-freezing, overheating, dry-burning, water-gas interlock, delay ignition, water flow stabilization, and 20-minute overtime protection.
- **Digital Display:** LED smart digital display for temperature adjustment (38°C-75°C).
- **Efficient Design:** Advanced combustion technology and oxygen-free copper water tank for reduced gas consumption and heat loss.

# CONSTANT TEMPERATURE WITHOUT COLDNESS

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

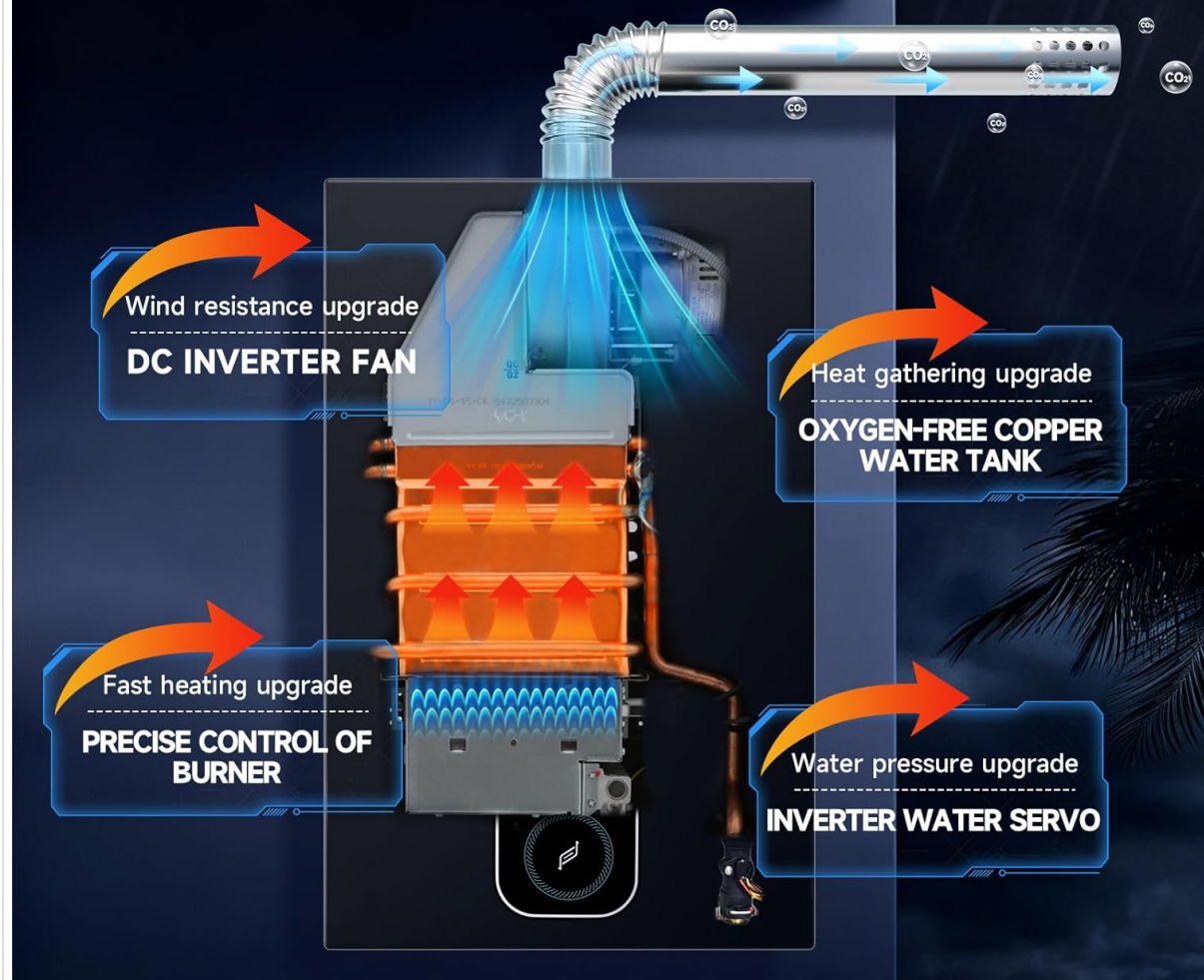


Image 2: Internal components illustrating the DC inverter fan, oxygen-free copper water tank, and precise burner control for efficient operation.

## 3.2 Specifications

Technical specifications for the forimo 16L Propane Tankless Water Heater.

# PRODUCTS PECIFICATION



Image 3: Product specification diagram including dimensions and key technical data.

| Specification      | Value                   |
|--------------------|-------------------------|
| Brand              | forimo                  |
| Model Number       | CT1412-HWRSQ            |
| Product Dimensions | 13.8"W x 21.7"H         |
| Color              | Black                   |
| Style              | 16L-Propane(LPG)        |
| Item Weight        | 21.9 pounds             |
| Rated Heat Load    | 24 KW (81,888 BTU/hour) |
| Inlet Gas Pressure | 2.8 KPa                 |
| Type of Gas        | Propane (LPG)           |
| Ignition Type      | Automatic               |

| Specification           | Value                          |
|-------------------------|--------------------------------|
| Suitable Water Pressure | 0.02-0.8 MPa (3.6 PSI minimum) |
| Power Supply            | 110V, 60Hz                     |
| Water Output            | 4.21 GPM                       |
| Temperature Range       | 38°C-75°C                      |
| UPC                     | 717956178157                   |

## 4. SETUP AND INSTALLATION

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Proper installation is crucial for the safe and efficient operation of your water heater. It is highly recommended that installation be performed by a qualified professional.

### 4.1 Pre-Installation Checklist

- Verify that the gas type (Propane/LPG) matches your supply.
- Ensure adequate ventilation is available or can be installed.
- Confirm water supply lines (1/2" NPT standard) and gas inlet are accessible.
- Gather necessary tools and additional fittings (e.g., G1/2 to NPT adapters if in the US).

### 4.2 Mounting the Unit

1. Select a suitable indoor location, close to a vent or chimney, with sufficient clearance around the unit for maintenance.
2. Mark the mounting points on the wall.
3. Securely mount the water heater to the wall using appropriate fasteners.

### 4.3 Water Connections

The unit uses standard 1/2" NPT water fittings. Ensure a water shutoff valve is installed on the cold water inlet line.

1. Connect the cold water supply to the water inlet (typically on the right, blue marking).
2. Connect the hot water outlet (typically on the left, red marking) to your household hot water lines.
3. Ensure all connections are tight and leak-free.

### 4.4 Gas Connections

Connect the propane gas supply to the gas inlet using the provided gas hose and ensuring a secure, leak-free connection.

1. Connect the gas supply line to the gas inlet on the heater.
2. Use a gas leak detector or soapy water to check all gas connections for leaks.

### 4.5 Ventilation

Install the 2.4" horizontal vent pipe to ensure proper exhaust of combustion gases. The vent must lead outdoors.

1. Attach the vent pipe to the top exhaust port of the heater.
2. Route the vent pipe to the exterior, ensuring proper sealing and compliance with local codes.

## 4.6 Electrical Connection

Plug the power cable into a grounded 110V, 60Hz electrical outlet.



Image 4: Detailed view of the water, gas, and electrical connection points for installation.

## 5. OPERATING INSTRUCTIONS

This section details how to operate your forimo tankless water heater.

### 5.1 Initial Startup

1. Ensure all water and gas connections are secure and leak-free.
2. Open the main gas supply valve.
3. Open the cold water inlet valve to the heater.
4. Plug in the power cable. The digital display should illuminate.

5. Open a hot water faucet in your home. The heater will automatically ignite and begin heating water.

## 5.2 Temperature Adjustment

The heater features an LED smart digital display for precise temperature control.



*Image 5: Intelligent touch screen display for temperature and function control.*

- Use the touch controls on the display to increase or decrease the desired water temperature.
- The temperature can be adjusted between 38°C and 75°C.
- The display will show the current output water temperature.

## 6. MAINTENANCE

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

### 6.1 Regular Cleaning

- Periodically wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners.
- Ensure the ventilation exhaust is clear of obstructions.

## 6.2 Winterization (Freezing Protection)

If the water heater is installed in an area prone to freezing temperatures and will not be used for an extended period, it is essential to drain the unit to prevent damage.

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

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter with your water heater.

| Problem                         | Possible Cause   | Solution   |
|---------------------------------|--|--|
| No hot water                    | No gas supply, low water pressure, power outage, flame failure.                  | Check gas valve, ensure adequate water flow (min 3.6 PSI), verify power, check for error codes on display.               |
| Water not hot enough            | Temperature setting too low, excessive water flow, cold inlet water temperature. | Increase temperature setting, reduce water flow at faucet, allow more time for heating.                                  |
| Heater cycles on/off frequently | Insufficient water flow, air in water lines, sensor issue.                       | Ensure consistent water flow, bleed air from lines, contact support if issue persists.                                   |
| Error code displayed            | Specific system malfunction.   | Refer to the specific error code in the full manual (if available) or contact customer support.                          |
| Gas odor detected               | Gas leak.  | Immediately turn off gas supply, ventilate the area, do not operate electrical switches, and contact emergency services. |

## 8. WARRANTY AND SUPPORT

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For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or contact forimo customer service through their official channels. Keep your purchase receipt as proof of purchase.