

FOGATTI FDG-CF170G-NG

FOGATTI InstaGas Comfort 170 Series Tankless Water Heater User Manual

Model: FDG-CF170G-NG

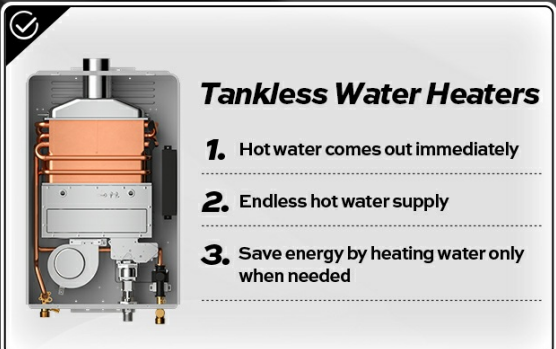

Natural Gas, Indoor Installation, 7.5 GPM

1. INTRODUCTION

Thank you for choosing the FOGATTI InstaGas Comfort 170 Series Tankless Water Heater. This unit is designed to provide efficient, on-demand hot water for your home or commercial needs. Please read this manual thoroughly before installation and operation to ensure safe and optimal performance.

This tankless water heater offers significant advantages over traditional tank heaters, including instant and endless hot water, energy savings by heating water only when needed, and a compact design that saves space.

Achieve 5x Performance in Less Than 1/3 the Size

 Tankless Water Heaters	 Traditional Tank Water Heaters
1. Hot water comes out immediately	1. Long waiting time for heating
2. Endless hot water supply	2. Limited hot water resources
3. Save energy by heating water only when needed	3. Continuous consumption of gas to maintain temp

Comparison of Tankless vs. Traditional Water Heaters: Tankless units provide instant, endless hot water and save energy by heating only on demand, unlike traditional tanks that continuously consume energy to maintain temperature.

Sufficient Supply of 3-4 Points Throughout the Whole House

Master Bathroom x1 Laundry Room x1 Washing Room x1 Kitchen x1



The FOGATTI InstaGas Comfort 170 Series can sufficiently supply 3-4 outlet points throughout a whole house, including master bathroom, laundry room, washing room, and kitchen.

2. 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.

This appliance must be installed in accordance with all local codes, or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54, and the National Electrical Code, ANSI/NFPA 70.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

Children should be supervised to ensure they do not play with the appliance. Keep children and pets away from the appliance area.

Caution: Hot water increases the risk of scald injury. Be aware of water temperature before use, especially when showering or using for other purposes. Refer to the operating instructions for temperature adjustment.

3. PRODUCT OVERVIEW

The FOGATTI InstaGas Comfort 170 Series tankless water heater features high-quality components designed for durability and efficient performance.

Selected Quality Components Excellent Working Performance



NIDEC High-Speed Fan



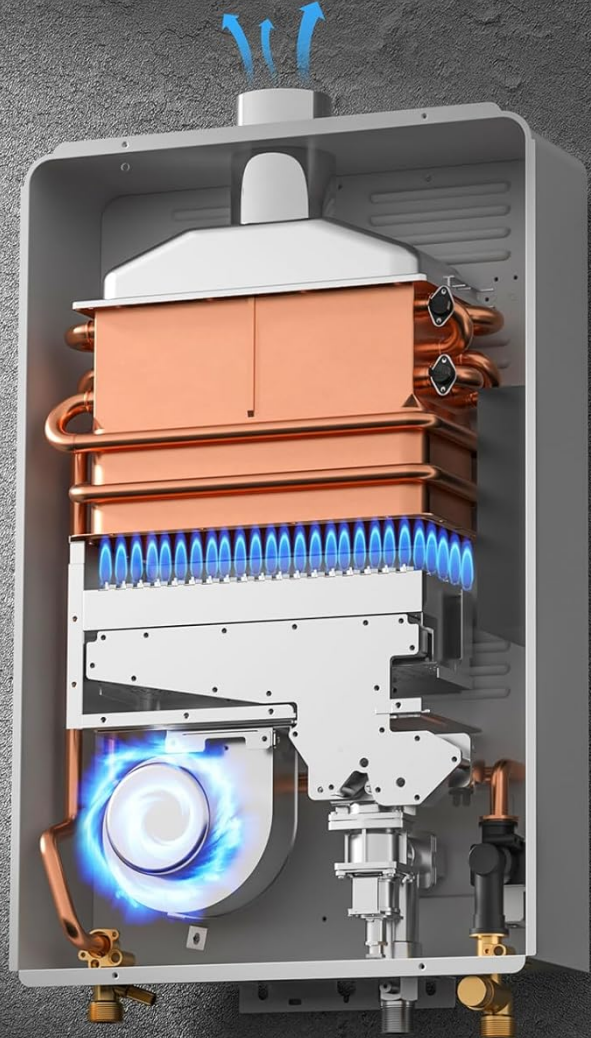
Copper Heat Exchanger



T-304 Stainless-Steel Burner

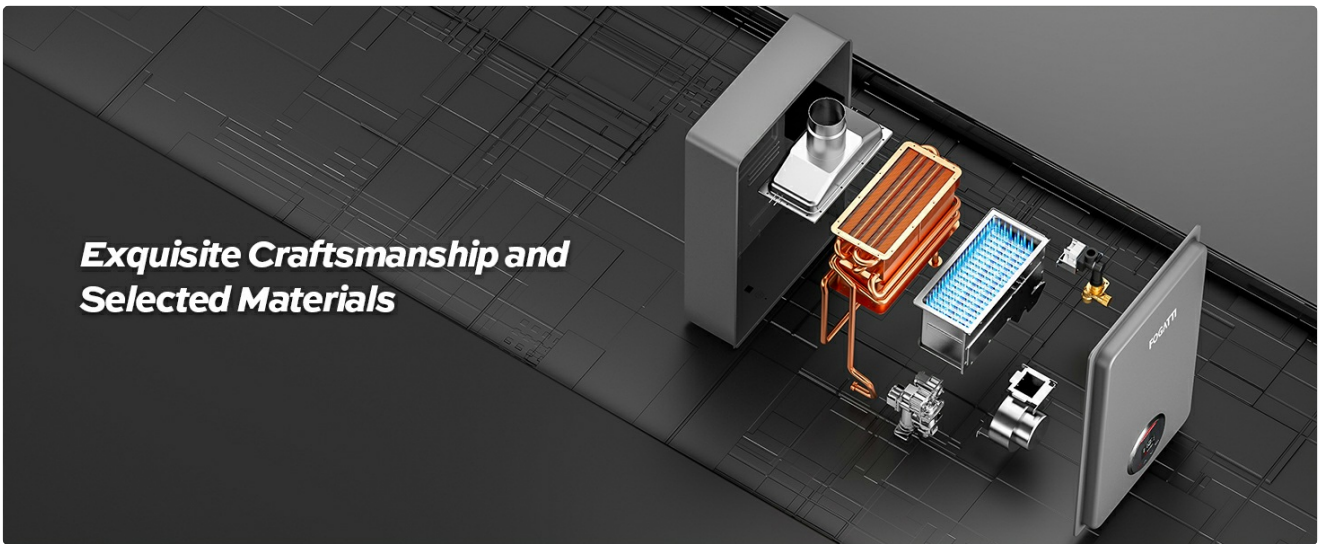


High-Precision Computer Chips



Key internal components include a NIDEC High-Speed Fan, Copper Heat Exchanger, T-304 Stainless-Steel Burner, and High-Precision Computer Chips, all contributing to excellent working performance.

Exquisite Craftsmanship and Selected Materials



Exquisite Craftsmanship and Selected Materials: The unit is built with a high-efficiency copper heat exchanger and 304 stainless steel burner for exceptional durability and performance.

4. SPECIFICATIONS

Feature	Specification
Brand	FOGATTI
Model Number	FDG-CF170G-NG
Product Dimensions	16.3"W x 25"H x 7.3"D
Color	Gray
Wattage	43 Watt-hours
Voltage	120 Volts (AC)
Maximum Flow Rate	7.5 Gallons Per Minute (GPM)
Heating Power	170,000 BTU
Efficiency	Highly Efficient
Minimum Water Pressure	15 PSI
Maximum Operating Pressure	150 PSI
Mounting Type	Wall-Mounted
Certification	CSA Certified
Item Weight	45.1 pounds
Country of Origin	China

5. INSTALLATION

The FOGATTI InstaGas Comfort 170 Series is designed for quick and easy indoor installation. Ensure you have all necessary accessories and follow local plumbing and electrical codes.

5.1 Site Selection

Choose an indoor location that is protected from freezing temperatures and has adequate ventilation. The unit requires a standard 120V AC power outlet.

Which situations are more suitable for indoor water heater



Areas with frequent outdoor thunderstorms



Cold regions during winter



Living in townhouses or apartments

Indoor water heaters are more suitable for areas with frequent outdoor thunderstorms, cold regions during winter, and for living in townhouses or apartments.

5.2 Connections

The unit features 3/4" NPT connections for water inlet, water outlet, and gas inlet. Ensure proper sealing and secure connections. A service valve kit (additional purchase) is recommended for easier maintenance.



Installation Diagram: The unit measures 26.2"H x 17.1"W x 7.3"D. It requires a 120 VAC 60 Hz supply. Water Inlet and Outlet are 3/4" NPT, and Gas Inlet is also 3/4" NPT.

Easy to Install

Accessories included

Purchase Required

*Tips: If the hot and cold water pipes are reversed, your water heater won't respond after turning on. If you are not sure about which pipes they are, simply turn on your water pump to see where the cold water comes out from.

Easy Installation: The diagram illustrates the simple connection process for kitchen, bathroom, and garage applications. Note: If hot and cold water pipes are reversed, the water heater will not respond after turning on. Consult the quick installation poster for detailed

6. OPERATION

The FOGATTI tankless water heater provides instant hot water with precise temperature control.

6.1 Digital Display and Controls

The unit features a sensitive digital display for convenient and precise operation. You can adjust the temperature using the controls on the front panel.



Sensitive Digital Display: The control panel allows you to switch the unit on/off, adjust temperature (Heat up/Heat down), and select ECO mode. It also displays signals for water flow, fan operation, flame status, and ECO mode activation.

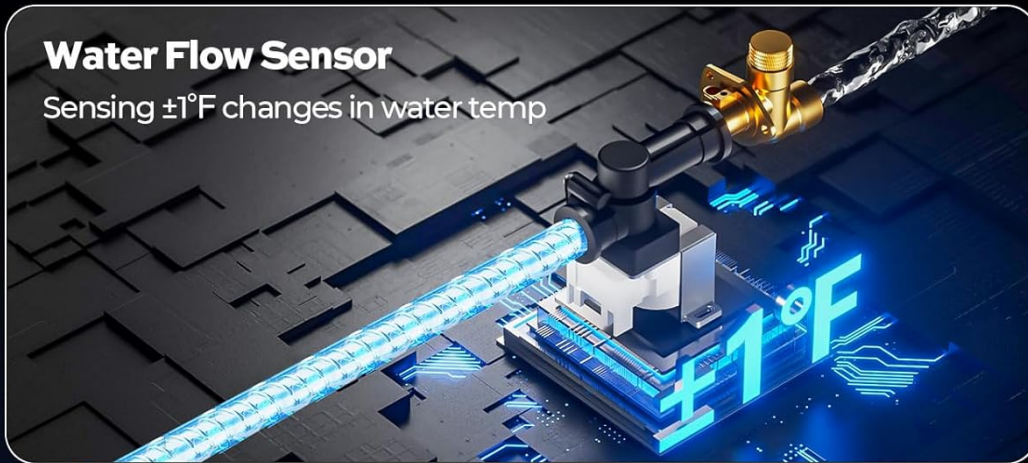
6.2 Temperature Control

With advanced water servo technology and temperature sensors, the unit precisely adjusts water flow and gas intake to maintain a temperature difference within $\pm 1^{\circ}\text{F}$. The four-stage combustion system ensures consistent comfort.

Constant-Temp Heating System

Water Flow Sensor

Sensing $\pm 1^\circ\text{F}$ changes in water temp

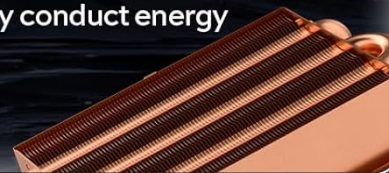


**T-304
Stainless-Steel Burner**
Provide 4 flame layout modes

**Sensitive
Computer Chip**



**TP2
Copper Heat Exchanger**
Efficiently conduct energy



Constant-Temp Heating System: Features a water flow sensor that detects $\pm 1^\circ\text{F}$ changes, a sensitive computer chip for precise control, a T-304 stainless-steel burner with 4 flame layout modes, and a TP2 copper heat exchanger for efficient energy conduction.

Provides Different Heating Modes for People of Different Ages

Spring



Summer



Autumn



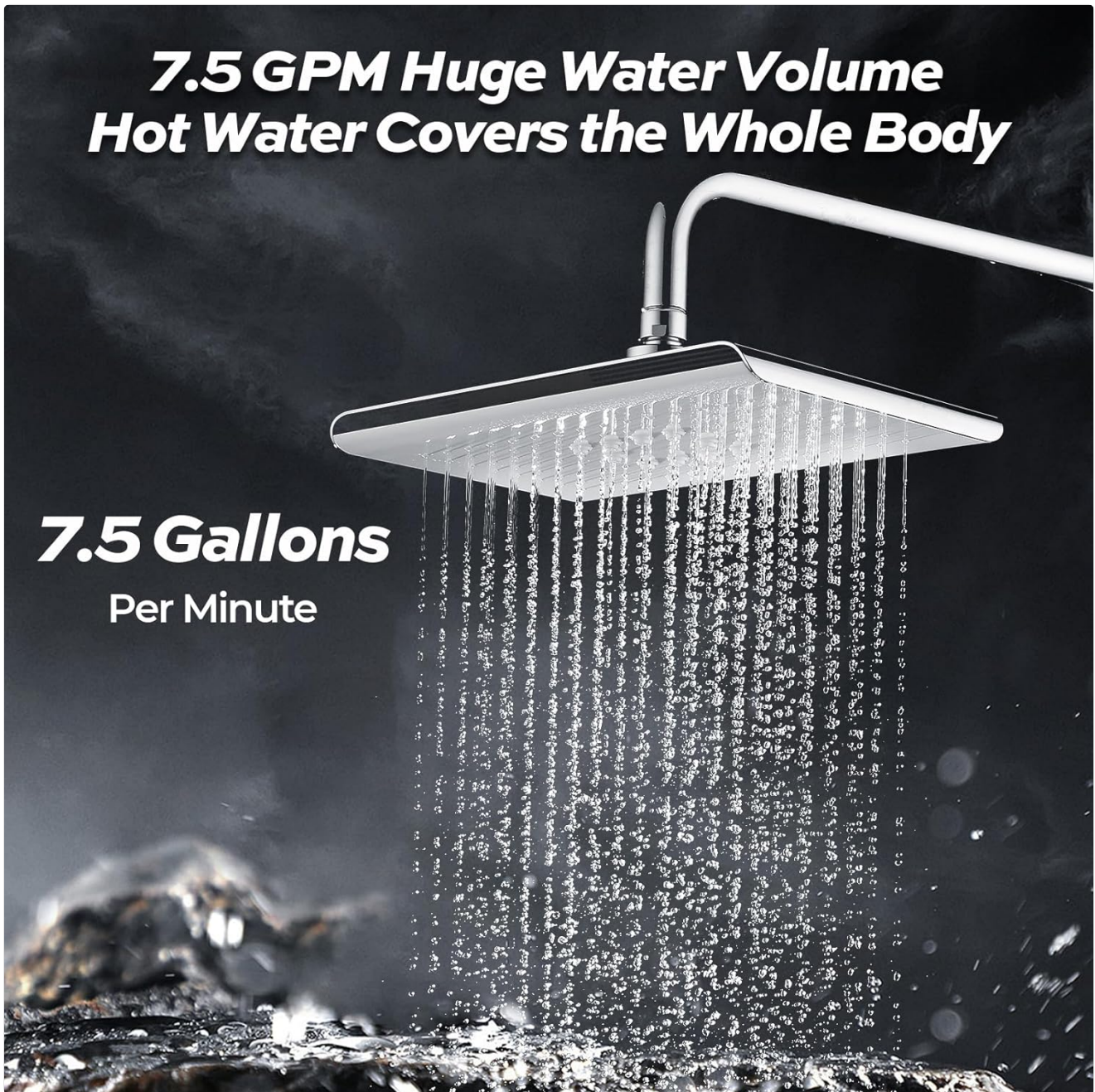
Winter



The unit provides different heating modes suitable for various seasons (Spring, Summer, Autumn, Winter) to optimize performance based on ambient temperature.

6.3 Hot Water Delivery

The 7.5 GPM flow rate ensures a huge volume of hot water, capable of covering whole-body showers and meeting the demands of multiple outlets simultaneously.



**7.5 GPM Huge Water Volume
Hot Water Covers the Whole Body**

**7.5 Gallons
Per Minute**

7.5 GPM Huge Water Volume: The unit delivers 7.5 Gallons Per Minute, ensuring ample hot water for various needs.

7. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your FOGATTI tankless water heater.

7.1 Anti-freeze Protection

The unit is equipped with an active heating anti-freeze device. However, if the environment temperature drops below 5°F or the unit will not be used for a long period, it is recommended to drain the water inside to prevent damage.



Automatic Anti-freeze Protection: The system is designed to resist low-temperature weather, but manual draining is advised in extreme cold or during extended periods of non-use.

7.2 General Care

Periodically inspect the unit for any leaks or unusual noises. Keep the area around the water heater clear of obstructions. For optimal performance, it is recommended for use below 2000 feet altitude.

8. TROUBLESHOOTING

If you encounter issues with your water heater, refer to the following common problems and solutions. For complex issues, contact customer support.

8.1 No Hot Water / Intermittent Hot Water

- **Check Water Flow:** Ensure sufficient water pressure (15-150 PSI). Low water pressure can prevent the unit from activating or maintaining consistent heat.
- **Gas Supply:** Verify that the gas supply valve is fully open and there are no issues with your natural gas line.
- **Power Supply:** Confirm the unit is receiving continuous 120V AC power.
- **Temperature Setting:** Ensure the desired temperature is set appropriately on the digital display.
- **Error Codes:** Check the digital display for any error codes and consult the quick installation poster or full user manual for their meaning and resolution.

8.2 Unit Not Firing Up

- **Ventilation:** Ensure the exhaust vent is clear and unobstructed. Safety features may prevent operation if proper ventilation is not detected.
- **Ignition:** If you suspect an ignition issue, ensure the power supply is stable.

9. WARRANTY AND SUPPORT

FOGATTI stands behind the quality of its products. The InstaGas Comfort 170 Series Natural Gas Tankless Water Heater includes:

- **2 years of full coverage** for the entire unit.
- **5 years of coverage** for the heat exchanger.

Our dedicated customer support team is available to assist you with any questions, concerns, or technical issues you may encounter. Please refer to the contact information provided on your warranty card or visit the official

FOGATTI website for support details.

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