

Prity FGW15

Prity FGW15 Wood-Burning Stove with Oven and Back Boiler

User Manual

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1. INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your Prity FGW15 wood-burning stove with oven and back boiler. This appliance is designed to provide both room heating and hot water for central heating systems, while also offering a functional oven for cooking. Please read this manual thoroughly before using the appliance and retain it for future reference.

The Prity FGW15 stove complies with European standards EN 13240:2001 and EN 13299:2001, ensuring its quality and safety for domestic use.

2. SAFETY INFORMATION

Professional Installation Required: This appliance requires professional installation by a qualified technician to ensure safe and correct operation, as well as compliance with local building codes and regulations. Improper installation can lead to fire hazards, carbon monoxide poisoning, and other serious risks.

2.1 General Safety Warnings

- Never leave the stove unattended while in operation.
- Keep children and pets away from the hot surfaces of the stove.
- Do not store flammable materials near the stove.
- Ensure adequate ventilation in the room where the stove is installed.
- Regularly inspect the flue pipe and chimney for blockages or damage.
- Only use recommended fuel types.

2.2 Minimum Clearances to Combustible Materials

Maintain the following minimum distances from combustible materials to prevent fire hazards:

- **Rear:** 400 mm
- **Sides:** 400 mm
- **Front:** 800 mm (within the radiation area of the glass)

These distances are critical for safety. Consult your installer for specific requirements based on your installation.

2.3 Permissible Fuel

Only use **dry firewood** as fuel. The wood moisture content should be $16 \pm 4\%$ according to EN 13240:2006, EN 13229:2006, EN 12815:2006 Annex B, Table B.1. Do not burn treated wood, plastics, coal, or any other materials not specified for wood-burning stoves, as this can damage the appliance, create hazardous emissions, and void your warranty.

3. PRODUCT COMPONENTS

The Prity FGW15 is a versatile appliance combining a wood-burning firebox, an oven, and a back boiler for central heating. Key components include:

- **Firebox:** Main combustion chamber for burning wood. Features heat-resistant ceramic glass.
- **Oven:** Located above the firebox, equipped with heat-resistant ceramic glass and a temperature gauge.
- **Back Boiler:** Integrated system for heating water for central heating, with a capacity of 15 liters.
- **Manual Dampers:** Two dampers for controlling air supply and flame intensity.
- **Cast Iron Grate:** Located in the firebox for efficient combustion.
- **Flue Pipe Connection:** Top-mounted outlet for chimney connection.
- **Water Connections:** Inlet and outlet for the central heating system.



Figure 3.1: Front view of the Prity FGW15 stove, highlighting the firebox, oven, and ash drawer.

worden sind, oder sind diese Waren nachzuliefern, so umfasst die Verpflichtung des Verkäufers zur Nachbesserung oder Nachlieferung die Demontage der vertragswidrigen Waren und die Montage von den nachgelieferten oder nachgebesserten Waren oder die Übernahme der Kosten für die Montage und Demontage der Waren.

(5) Der Verbraucher hat für den normalen Gebrauch der nachzuliefernden Waren für die Zeit vor der Nachlieferung kein Entgelt zu entrichten.

Art. 35. Die Preisminderung entspricht der Differenz zwischen dem Wert der Ware, die der Verbraucher erhalten hat, und dem Wert, den die Ware hätte, wenn keine Vertragswidrigkeit vorliegen würde.

Art. 36. (1) Der Verbraucher übt sein Recht auf Rücktritt vom Kaufvertrag gemäß Art. 33, Abs. 4 durch eine Erklärung an den Verkäufer aus.

(2) Betrifft die Vertragswidrigkeit nur einen Teil der aufgrund des Kaufvertrags gelieferten Waren und liegt ein Rücktrittsgrund vor, so kann der Verbraucher vom Kaufvertrag nur hinsichtlich derjenigen Waren zurücktreten, die nicht vertragsmäßig sind, sowie hinsichtlich aller anderen Waren, die er zusammen mit den vertragswidrigen Waren erworben hat, wenn ihm nicht zugemutet werden kann, nur die vertragsmäßigen Waren zu behalten.

(3) Wenn der Verbraucher vom Kaufvertrag ganz oder teilweise nur hinsichtlich eines Teil der aufgrund des Kaufvertrags gelieferten Waren zurücktritt, so hat er diese Waren unverzüglich und spätestens binnen vierzehn Tagen ab dem Tag, an dem er den Verkäufer von seinem Entschluss, vom Kaufvertrag zurückzutreten, informiert hat, an den Verkäufer zurückzusenden. Die Frist gilt als gewahrt, wenn der Verbraucher die Waren vor Ablauf der 14-tägigen Frist an den Verkäufer zurückgegeben oder zurückgesandt hat. Alle mit der Rücksendung der Ware verbundenen Kosten, einschließlich des Versands der Ware, gehen zu Lasten des Verkäufers.

(4) Der Verkäufer erstattet dem Verbraucher den für die Ware gezahlten Preis nach dem Erhalt der Ware oder gegen Vorlage eines Nachweises über den Versand der Ware an den Verkäufer seitens des Verbrauchers. Der Verkäufer ist verpflichtet, die erhaltenen Beträge unter Verwendung desselben Zahlungsmittels, das der Verbraucher bei der ursprünglichen Transaktion verwendet hat, zurückzuzahlen, es sei denn, der Verbraucher hat der Verwendung eines anderen Zahlungsmittels ausdrücklich zugestimmt, sofern er dafür keine Kosten zu tragen hat.

Art. 37. (1) Der Verbraucher kann seine Rechte nach diesem Abschnitt wie folgt ausüben:

1. bei Waren, die keine digitalen Elemente enthalten – innerhalb von zwei Jahren ab dem Datum der Lieferung der Waren;

(2) Die in Abs. 1 genannte Frist wird ausgesetzt während der Zeit, die für die Nachbesserung oder Nachlieferung der Ware erforderlich ist.

Figure 3.2: Rear view of the Prity FGW15 stove, illustrating the cold and hot water connections for the back boiler and the flue pipe outlet.

4. TECHNICAL SPECIFICATIONS

Below are the detailed technical specifications for the Prity FGW15 wood-burning stove:

Figure 4.1: Key dimensions of the Prity FGW15 stove.

Feature	Specification
Model	FGW15
Brand	Prity
Product Dimensions (D x W x H)	53 x 57 x 93 cm
Weight	136 kg
Material	Cast Iron
Nominal Room Heating Power	5 kW
Nominal Water Heating Power	15 kW
Total Nominal Heat Output	19.8 kW
Boiler Capacity	15 Liters
Cold Water Inlet / Hot Water Outlet	2.5 cm (1 inch)
Flue Pipe Diameter	130 mm
Efficiency	76.5%
Approximate Heating Surface Area	114 m ² (for room heating)
Firebox Dimensions (W x D x H)	465 x 240 x 430 mm
Oven Dimensions (W x D x H)	380 x 400 x 200 mm
Maximum Working Pressure (Water)	1.25 bar
Flue Gas Temperature	192 °C
CO in Flue Gas	1031.3 mg/Nm ³ (0.0985 %)
Dust Content	26.4 mg/Nm ³
NOx Content	102.7 mg/Nm ³
CxHy Content	43.8 mg/Nm ³

5. INSTALLATION REQUIREMENTS

Installation of the Prity FGW15 stove must be carried out by a certified professional in accordance with all national and local building and fire safety regulations. This includes proper chimney connection, flue pipe installation, and integration with your central heating system.

5.1 Chimney and Flue Pipe

- Ensure the chimney is clean, structurally sound, and of adequate height and diameter for the stove's output.
- The flue pipe diameter is 130 mm. Use appropriate connectors and seals.
- All flue pipe connections must be airtight to prevent smoke leakage.

5.2 Water Connections for Back Boiler

The back boiler requires connection to a closed or open central heating system. The cold water inlet and hot water outlet connections are 2.5 cm (1 inch). A qualified plumber must perform these connections, ensuring proper pressure relief valves, expansion tanks, and circulation pumps are installed according to system requirements and local codes.

5.3 Positioning and Clearances

Refer to Section 2.2 for minimum clearances to combustible materials. The stove must be placed on a non-combustible hearth extending beyond the appliance as required by local regulations.

6. OPERATING INSTRUCTIONS

Before operating, ensure all installation checks are complete and the central heating system (if connected) is filled and vented.

6.1 Starting the Fire

1. Open both the front air supply damper and the smoke damper fully.
2. Place a small amount of kindling and firelighters on the cast iron grate in the firebox.
3. Light the kindling. Once it is burning well, add small pieces of dry firewood.
4. Close the firebox door securely.
5. Allow the fire to establish fully before adding larger logs.

6.2 Air Control and Flame Intensity

The stove is equipped with two manual dampers:

- **Front Damper:** Controls the primary air supply to the combustion chamber. Opening it increases the burn rate and heat output. Closing it reduces the burn rate.
- **Smoke Damper:** Regulates the intensity of the flame and the draft through the flue. Adjust this to achieve optimal combustion and prevent excessive heat loss up the chimney.

Adjust both dampers to achieve a steady, efficient burn. A bright, lively flame indicates good combustion. Excessive smoke or a dull, smoldering fire suggests insufficient air or poor draft.

6.3 Using the Oven

The oven utilizes heat from the firebox below. The oven temperature will vary depending on the intensity of the fire. Monitor the oven temperature gauge and adjust the fire's intensity as needed for cooking. Preheat the oven thoroughly before placing food inside.

7. MAINTENANCE

Regular maintenance is crucial for the safe and efficient operation of your Prity FGW15 stove.

7.1 Ash Removal

Remove ash from the ash drawer regularly, ideally before each use or when the ash bed becomes thick. Allow the stove to cool completely before removing ash. Dispose of ash in a metal container with a tight-fitting lid, away from combustible materials.

7.2 Glass Cleaning

Clean the ceramic glass on the firebox and oven doors as needed. Use a specialized stove glass cleaner or a damp cloth dipped in fine ash (when cold) to remove soot. Avoid abrasive cleaners or tools that could scratch the glass.

7.3 Flue Pipe and Chimney Cleaning

The flue pipe and chimney must be inspected and cleaned by a qualified chimney sweep at least once a year, or more frequently if heavy use or creosote buildup is observed. Blockages can lead to dangerous chimney fires and carbon monoxide accumulation.

7.4 General Inspection

Periodically check all seals, hinges, and dampers for wear or damage. Ensure water connections for the back boiler are

free from leaks. Replace any worn parts promptly.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your Prity FGW15 stove.

Problem	Possible Cause	Solution
Smoke entering the room	Blocked chimney/flue, insufficient draft, door opened too quickly, wet fuel.	Check chimney/flue for blockages. Ensure dampers are open. Use dry fuel. Open door slowly.
Low heat output	Insufficient air supply, wet fuel, small fire, poor insulation.	Open air dampers. Use dry, seasoned wood. Build a larger fire. Check room insulation.
Fire burns too quickly	Excessive air supply, door not sealed properly.	Close air dampers partially. Check door seals and replace if necessary.
Glass blackens quickly	Wet fuel, insufficient air for combustion, low burning temperature.	Use dry fuel. Increase air supply. Ensure fire burns hot enough.
Central heating not heating effectively	Low fire intensity, air in system, pump malfunction, system blockage.	Increase fire intensity. Bleed radiators. Check circulation pump. Consult a plumber.

If you encounter persistent problems that cannot be resolved using this guide, contact a qualified technician or your seller for assistance.

9. COMPLIANCE AND CERTIFICATIONS

The Prity FGW15 wood-burning stove is manufactured and tested to meet stringent European standards.

9.1 European Standards

This appliance complies with:

- EN 13240:2001/A2:2004/AC:2007 (Roomheaters fired by solid fuel)
- EN 13299:2001 (Roomheaters with boiler fired by solid fuel)

9.2 Energy Efficiency Label

The Prity FGW15 has an energy efficiency rating of A. This label provides information on the energy performance of the appliance.

Figure 9.1: Energy Efficiency Label for Prity FGW15.

9.3 Declaration of Performance

A Declaration of Performance (DoP) is available, confirming the essential characteristics and performance of the product in accordance with Regulation (EU) No 305/2011.

Figure 9.2: English Declaration of Performance for Prity FGW15.

10. WARRANTY AND SUPPORT

For warranty information, please refer to the terms and conditions provided at the point of purchase or contact your seller directly. In case of technical issues, questions, or the need for spare parts, please contact the retailer from whom you purchased the Prity FGW15 stove. Ensure you have your purchase details and the product model number (FGW15)

available when contacting support.