

Prity K1CPW8

Prity K1CPW8 Cast Iron Stove with Water Exchanger User Manual

Model: K1CPW8 | Brand: Prity

1. INTRODUCTION

This user manual provides essential information for the safe and efficient operation, installation, and maintenance of your Prity K1CPW8 cast iron wood-burning stove with an integrated water exchanger. Please read this manual thoroughly before installation and use.

1.1 Product Overview

The Prity K1CPW8 is a highly efficient wood-burning stove designed for heating living spaces and integrating with a central heating system via its built-in water exchanger. It features a durable cast iron construction, a ceramic heat-resistant glass in the combustion chamber, and a secondary door for convenience.



Figure 1: Front view of the Prity K1CPW8 Cast Iron Stove, showing the combustion chamber with visible flames and the lower compartment.

1.2 Safety Warnings

- Fire Hazard:** Always maintain safe distances from combustible materials. Refer to the specifications section for minimum clearances.
- Carbon Monoxide:** Ensure proper ventilation and chimney draft to prevent carbon monoxide buildup. Install carbon monoxide detectors.
- Hot Surfaces:** The stove surfaces become extremely hot during operation. Use protective gloves when handling parts like the door handle. Keep children and pets away.
- Fuel Type:** Only use dry wood as fuel. Do not burn plastics, treated wood, or other unsuitable materials.
- Water System:** Ensure the water exchanger system is properly installed, filled, and vented before operating the stove. Overpressure can be dangerous.

2. SETUP AND INSTALLATION

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

2.1 Unpacking and Inspection

Carefully unpack the stove and inspect it for any damage that may have occurred during transit. Report any damage to your supplier immediately.

2.2 Location and Clearances

Choose a suitable location on a non-combustible floor. Ensure adequate clearance from walls, furniture, and other combustible materials. Refer to the technical specifications for exact minimum distances.

- Minimum distance to combustible materials:
 - Rear: 400 mm
 - Side: 400 mm
 - Front: 800 mm (within the radiant area of the glass)



Figure 2: The Prity K1CPW8 stove positioned in a living room, demonstrating typical installation with a visible chimney pipe and wood storage.

2.3 Chimney Connection

Connect the stove to a suitable, properly sized chimney flue. Ensure all connections are sealed and airtight to prevent smoke leakage and ensure proper draft. The chimney must be clean and free of obstructions.



Figure 3: Top view of the Prity K1CPW8 stove, showing the circular opening for chimney connection and a removable cover for a cooking plate.

2.4 Water Exchanger Connection

The integrated water exchanger requires connection to your central heating system. This must be done by a certified plumber. Ensure the system includes an expansion tank, circulating pump, safety valve, and pressure gauge. Fill the system with water and bleed all air before operation.



Figure 4: Rear view of the Prity K1CPW8 stove, highlighting the two pipe connections for the integrated water exchanger system.

3. OPERATING INSTRUCTIONS

3.1 Fuel Type

Only use dry, seasoned firewood. Wood moisture content should be 16% ± 4% according to EN 13240:2006. Do not use wet wood, treated wood, coal, or any other combustible materials not specified for this stove.

3.2 Lighting the Stove

1. Open the primary air intake fully.
2. Place crumpled paper or firelighters at the bottom of the combustion chamber.
3. Add a small amount of kindling on top of the paper/firelighters.
4. Light the paper/firelighters.

5. Once the kindling is burning well, gradually add larger pieces of dry firewood.
6. Close the door securely.

3.3 Temperature Control

Adjust the primary and secondary air intakes to control the burn rate and heat output. Closing the air intakes will reduce the burn rate, while opening them will increase it. Avoid over-firing the stove, as this can damage the unit and lead to unsafe conditions.

Note: The manufacturer recommends not overloading the stove with too much wood to avoid high temperatures at the boiler outlet, especially if not connected to a regulated system.

4. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Prity K1CPW8 stove.

4.1 Ash Removal

Remove ash regularly from the ash pan located below the cast iron grate. Do not allow ash to build up and block the air intake. Always ensure ashes are cold before disposal.

4.2 Glass Cleaning

The ceramic glass in the combustion chamber may accumulate soot. Clean it when the stove is cold using a specialized glass cleaner for wood stoves or a damp cloth dipped in ash. Avoid abrasive cleaners.

4.3 Chimney and Flue Pipe Cleaning

Have your chimney and flue pipes inspected and cleaned by a certified chimney sweep at least once a year, or more frequently depending on usage. This prevents creosote buildup, which can lead to chimney fires.

4.4 General Inspection

Periodically check all seals, gaskets, and connections for wear and tear. Replace any damaged parts immediately to maintain efficiency and safety.

5. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Smoke entering the room	Poor chimney draft, blocked flue, downdraft, door not sealed.	Check chimney for blockages, ensure proper ventilation, inspect door seals, pre-heat flue.
Stove not heating efficiently	Wet wood, insufficient air supply, excessive ash buildup, chimney issues.	Use dry wood, open air intakes, remove ash, check chimney.
Glass blackens quickly	Wet wood, low burning temperature, insufficient air wash.	Use dry wood, increase burn rate, ensure air wash vents are clear.

Problem	Possible Cause	Solution
Water system not heating	Air in system, pump malfunction, insufficient heat from stove.	Bleed air from system, check pump, ensure stove is burning at optimal temperature. Consult a plumber.

6. TECHNICAL SPECIFICATIONS

Below are the key technical specifications for the Prity K1CPW8 stove.

Attribute	Value
Brand	Prity
Model	K1CPW8
Color	Graphic Black
Material	Cast Iron
Product Dimensions (L x W x H)	46 x 44 x 76 cm
Item Weight	74 Kilograms (163.14 pounds)
Nominal Heat Output	13.1 kW
Room Heating Output	6.1 kW
Water Heating Output	7.0 kW
Efficiency	77.4% (High Efficiency)
Maximum Working Pressure (Water)	1.25 bar
Ventilation Type	Direct Vent
Assembly Required	No
Minimum Clearances (Rear)	400 mm
Minimum Clearances (Side)	400 mm
Minimum Clearances (Front)	800 mm



Figure 5: Energy efficiency label for Prity K1CPW8, indicating an A-class rating with 6.0 kW room heating and 7.0 kW water heating output.

Declaration of Performance

According to Construction Products Council Directive UE N°305/2011 and EN 14963:2006
Issue Date 01/01/2022

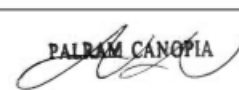
1. Identification code: Verona™ 5000, refer to CE label no 040
2. Type: A light transmitting self-supporting Twin-wall PC roofing structure with upstand made of aluminum and galvanized steel elements
3. Intended use: open multi-purpose covering where the ground slope is less than 5%
4. Manufacturer: Palram Canopia Ltd. Teradion Industrial Park, M.P. Misgav 2017400, P.O.B. 53, Israel
5. Importer and EU representative : PALRAM Applications UK, Unit 40 J3 Industrial Estate Carr Hill, Doncaster DN4 8DE
6. Assessment and verification of constancy of performance: System 3
7. Declared performance:
Resistance to upward load: UL 350
Resistance to downward loads: DL 1000
Reaction to fire: B, s1, d0 For mounting and fixing provisions see EN 16153:2013
Resistance to fire: NPD
External fire performance: F _{ROOF}
Water tightness: For the rooflight with upstand: Pass For the sheet material: Pass
Impact resistance: For the small hard body: Pass For the large soft body: NPD
Thermal transmittance: For the rooflight: NPD (not relevant to an open multi purpose cover) For the sheet material: 3.6 W/(m²·K)
Direct airborne sound insulation: NPD (not relevant to an open multi purpose cover)
Radiation transmittance: - Light transmittance: Tv - 41.46% - Solar direct transmittance: Te - 43.6% - Solar factor: g value - 0.58
Air permeability: For the rooflight: NPD (not relevant to an open multi purpose cover) For the sheet material: Pass
Durability (of the sheet material): ΔA, Cu 1, Ku 1
8. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7. This declaration of performance is issued, in accordance with Annex ZA.2.2 – EN 14963:2006, under the sole responsibility of Palram Canopia Ltd. ITT reports and Factory Production Control records are available upon request at www.canopia.com
Signed for and behalf of Palram Canopia Ltd. by: Teradion Industrial Park, Misgav, 01/01/2022

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Figure 6: Declaration of Performance document for the Prity K1CPW8, outlining compliance with EU regulations and technical specifications.

7. WARRANTY AND SUPPORT

For warranty information, please refer to the terms and conditions provided by your retailer at the time of purchase. Keep your proof of purchase for any warranty claims.

For technical support or spare parts inquiries, please contact your authorized Prity dealer or the manufacturer directly. While specific spare parts availability information is not always provided, your dealer should be able to assist with service and parts.

Figure 7: Product label with barcode and manufacturer details, including "Prity 95 Ltd Bulgaria" and model K1CPW8.

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Documents - Prity – K1CPW8



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User Manual Frequently Asked Questions

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