

Prity WD W29

Prity WD W29 Wood Boiler Stove 29+8KW User Manual

Model: **WD W29** | Brand: **Prity**

1. INTRODUCTION

This user manual provides essential information for the safe and efficient installation, operation, and maintenance of your Prity WD W29 wood boiler stove. Please read these instructions carefully before using the appliance and retain them for future reference. This stove is designed for residential premises using solid fuel, wood briquettes, or dry wood.

2. SAFETY INFORMATION

Always prioritize safety when operating any wood-burning appliance. Failure to follow these safety guidelines can result in property damage, injury, or death.

2.1 General Safety Precautions

- Ensure proper ventilation in the room where the stove is installed.
- Never use flammable liquids to start or rekindle a fire.
- Keep children and pets away from the hot surfaces of the stove.
- Only burn approved fuels (dry wood, wood briquettes). Do not burn trash, plastics, or treated wood.
- Regularly inspect the chimney and flue pipe for blockages or damage.
- Have the stove and chimney inspected and cleaned by a qualified professional annually.
- Install smoke and carbon monoxide detectors in your home.

2.2 Clearances to Combustible Materials

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

- **Rear:** 40 cm
- **Left Side:** 40 cm
- **Right Side:** 40 cm
- **Front:** 80 cm (from the radiant heat area)
- **Floor:** 0 cm (if installed on a non-combustible hearth)

Note: These distances are minimum requirements. Always consult local building codes and regulations, which may require

greater clearances.



Figure 1: Front view of the Prity WD W29 wood boiler stove. This image shows the main structure, including the combustion chamber door and ash pan.

3. SETUP AND INSTALLATION

Installation of this appliance must be performed by a qualified professional in accordance with all local and national building and fire codes.

3.1 Unpacking and Inspection

- Carefully remove the stove from its packaging.
- Inspect the stove for any signs of damage during transit. Report any damage to your supplier immediately.
- Ensure all components listed in the packing list are present.

3.2 Location and Hearth Requirements

- The stove must be placed on a non-combustible hearth that extends beyond the stove's footprint according to local regulations and the specified clearances.
- Ensure the floor can support the weight of the stove. The stove weighs approximately 10 kg (Note: This weight from specifications seems incorrect for a boiler stove. Please verify actual weight with supplier or manufacturer before installation).
- Maintain required clearances to walls and other combustible materials as detailed in Section 2.2.

3.3 Flue Connection

- Connect the stove to a suitable chimney or flue system using a flue pipe with a diameter of 150 mm.
- Ensure all flue pipe connections are sealed properly to prevent smoke leakage.
- The chimney must be in good condition, free of obstructions, and capable of providing adequate draft.

1. Eindeutiger Kenncode des Produkttyps:	PRITY WDW29 , PRITY WDW29D
2. Verwendungszweck:	Raumheizer für feste Brennstoffe (Zeitbrand),Raumheizung in Gebäuden
3. Hersteller:	PRITY 95 Ltd. 33, M. Raikovich str. 5140 Lyaskovets, Bulgaria
4. Bevollmächtigter:	PRITY 95 Ltd.
5. System zur Bewertung und Überprüfung der Leistungsbeständigkeit des Bauproduktes:	System 3 NachAnhang V, EU-BauPVO 305/2011
6. Harmonisierte Norm: Gemäß der Verordnung : Notifizierte Stelle: Prüfberichtsnummer und -datum:	EN 13240:2001/A2:2004/AC:2007 EU 2015/1185 ; EU 2015/1186 vom 24 april 2015 Термоплам ЕООД - NB 2608 117/06.03.2020
7. Erklärte Leistungen:	
Wesentliche Merkmale:	Leistungen:
Brandsicherheit	Erfüllt
- Brandverhalten	A1
- Abstände zu brennbaren Materialien – Details im technischen Handbuch	Hinten = 400, Linke und rechte Seite = 400, Nach oben = 600, Vorne = 800 (im gesamten Strahlungsbereich der Scheibe), Boden = 0
- Brandgefahr durch Herausfallen von brennendem Brennstoff	Erfüllt
- Reinigbarkeit	Erfüllt
Emission von Verbrennungsprodukten (13% O ₂): Brennstoffart trockenes Holz	Erfüllt CO 1237,5 mg/Nm ³ ; 0,0990 % Dust 30,9 mg/Nm ³ CxHy 58,8 mg/Nm ³ NOx 145,0 mg/Nm ³
- Abgastemperatur bei Nennwärmeleistung	T [222,0 °C]
Oberflächentemperatur	Erfüllt
Elektrische Sicherheit	NPD
Freisetzung von gefährlichen Stoffen	NPD
Maximaler Betriebswasserdruck	1,25 bar
Mechanische Festigkeit (Zum tragen eines Schornsteins)	NPD
Wärmeleistung/Energie und jahreszeitbedingte Effizienz	Erfüllt
- Nennwärmeleistung (Schornsteinzug 12Pa)	31,5 kW
- Raumwärmeleistung	9,4 kW
- Wasserwärmeleistung	22,1 kW
- Wirkungsgrad bei Nennwärmeleistung :	η [77,8 %]
- Raumheizungs-Jahresnutzungsgrad	η_s [68,8 %]
8. Die Leistung des oben identifizierten Produkts entspricht den in Punkt 7 angegebenen erklärten Leistungen.	

Diese Leistungserklärung wird gemäß der Verordnung (EU) Nr. 305/2011 unter der alleinigen Verantwortung des oben genannten Herstellers ausgestellt.

Unterzeichnet für und im Namen des Herstellers von:

Aleksandar Petrov Geranliev – Manager

Evgeni Georgiev Ivanov – Manager

Lyaskovets 11.01.2022

Figure 2: Side view of the Prity WD W29 stove, illustrating the flue pipe connection point at the top rear of the unit.

4. OPERATING INSTRUCTIONS

Follow these steps for safe and efficient operation of your wood boiler stove.

4.1 Fuel Type

Only use dry, seasoned wood or approved wood briquettes. The moisture content of wood should be below 20% for optimal efficiency and reduced emissions. Burning wet wood leads to creosote buildup and reduced heat output.

4.2 Starting a Fire

1. Open all air inlets (primary and secondary air controls) fully.
2. Place crumpled newspaper or firelighters at the bottom of the combustion chamber.
3. Stack small pieces of kindling on top of the newspaper/firelighters.
4. Place a few small logs on top of the kindling.
5. Ignite the newspaper/firelighters.
6. Close the combustion chamber door once the kindling is burning steadily.
7. Allow the fire to establish for 10-15 minutes with air controls fully open.



Figure 3: The Prity WD W29 stove with its upper door open, revealing the large combustion chamber for fuel loading.

4.3 Adding Fuel and Air Control

1. Before opening the combustion chamber door, open the air controls fully for a few moments to prevent smoke spillage.
2. Carefully open the door and add more logs as needed.
3. Close the door and adjust the air controls to achieve the desired burn rate and heat output. Reduce primary air for a slower burn, and secondary air for cleaner combustion.

5. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your stove.

5.1 Ash Removal

- Remove ash from the ash pan regularly, typically daily or every few days depending on usage.
- Ensure the fire is completely out and the ashes are cool before removal.
- Use a metal container with a tight-fitting lid for ash disposal. Store the container away from combustible materials.

ECO DESIGN 2022		BlmSchV2 Art. 15a B-VG		DECLARATION OF PERFORMANCE according to Regulations 305/2011 of EU № 051 / 11.01.2022	
1. Unique identification code of the product-type:		PRITY WDW29 , PRITY WDW29D			
2. Intended use:		Free-standing fireplace for heating residential premises using solid fuel / wood briquettes or dry wood /.			
3. Manufacturer:		PRITY 95 Ltd. 33, M. Raikovich str. 5140 Lyaskovets, Bulgaria			
4. Authorised representative:		PRITY 95 Ltd.			
5. System/s of AVCP:		System 3 according to Annex V of Regulations 305/2011 of EU			
6. Harmonised standard:		EN 13240:2001/A2:2004/AC:2007			
According regulation:		EU 2015/1185 ; EU 2015/1186 of 24 april 2015			
Notified body:		Термоплам ЕООД - NB 2608			
Test report number and date:		117/06.03.2020			
7. Declared performances:					
Essential characteristics:		Performances:			
Fire safety		Pass			
- Fire classification		A1			
- Distances from combustible materials – details available in the technical manual		Minimum distance in mm Rear = 400, Left and right sides = 400, Ceiling = 600, Front = 800 (safety information), Floor = 0			
- Fire hazard due to combustible material falling out		Pass			
- Cleanability		Pass			
Emission of combustion products : (13% O ₂ ; Fuel type dry wood)		Pass CO 1237,5 mg/Nm ³ ; 0,0990 % Dust 30,9 mg/Nm ³ CxHy 58,8 mg/Nm ³ NOx 145,0 mg/Nm ³			
- Flue gas temperature at nominal heat output		T [222,0 °C]			
Surface temperature		Pass			
Electrical safety		NPD			
Release of dangerous substances		NPD			
Maximum working pressure of the water		1,25 bar			
Mechanical resistance (to carry a chimney/flue)		NPD			
Thermal output/energy and seasonal efficiency		Pass			
- Nominal heat output. (Chimney traction 12 Pa.)		31,5 kW			
- Room heating output		9,4 kW			
- Water heating output		22,1 kW			
- Energy efficiency at the nominal heat output:		η [77,8 %]			
- Seasonal energy efficiency		η_s [68,8 %]			
8. The performance of the product identified above is in conformity with the set of declared performances indicated in item 7.					

<p>This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.</p> <p>Signed for and on behalf of the manufacturer by:</p>	<p>Aleksandar Petrov Geranliev – Manager</p> <p>Evgeni Georgiev Ivanov – Manager</p> <p>Lyaskovets 11.01.2022</p>
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Figure 4: The Prity WD W29 stove with its lower door open, providing access to the ash pan for easy cleaning.

5.2 Cleaning the Combustion Chamber and Flue

- Periodically clean the interior of the combustion chamber to remove any creosote buildup.
- The second upper door facilitates easy cleaning of the internal components.
- The flue pipe and chimney should be inspected and cleaned by a certified chimney sweep at least once a year, or more frequently if burning resinous wood.

5.3 General Inspection

- Check door seals for wear and tear. Replace if necessary to maintain airtightness.
- Inspect glass for cracks or damage.
- Ensure all moving parts (air controls, door hinges) operate smoothly.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Smoke entering the room	Poor chimney draft, blocked flue, door opened too quickly, wet wood.	Check chimney for blockages. Ensure air controls are open before opening door. Use dry wood. Consult a chimney sweep.
Low heat output	Wet wood, insufficient air supply, small fire, creosote buildup.	Use dry wood. Open air controls. Build a larger fire. Clean flue and stove.
Excessive burn rate	Too much air, door seal leakage.	Close air controls. Inspect and replace door seals if necessary.
Glass blackens quickly	Wet wood, insufficient secondary air, low burning temperature.	Use dry wood. Ensure secondary air is open. Maintain a hotter fire.

7. TECHNICAL SPECIFICATIONS

The following specifications are based on the Declaration of Performance (EN 13240:2001/A2:2007).

Feature	Value
Model	Prity WD W29, WDW29D
Intended Use	Free-standing fireplace for residential premises using solid fuel / wood briquettes or dry wood

Feature	Value
Manufacturer	Prity 95 Ltd., 33, M. Raykovich str., 5140 Lyaskovets, Bulgaria
Harmonised Standard	EN 13240:2001/A2:2007
Total Dimensions (W x D x H)	650 x 550 x 1150 mm
Combustion Chamber Dimensions (W x D x H)	475 x 450 x 300 mm
Flue Pipe Diameter	Ø 150 mm
Nominal Heat Output (Total)	31.5 kW
Room Heating Output	9.4 kW
Water Heating Output	22.1 kW
Water Heater Volume	44 Liters
Heating Surface Area	Approx. 210 m ²
Heating Capacity	Approx. 569 m ³
Energy Efficiency at Nominal Heat Output	77.8 %
Seasonal Efficiency	68.8 %
Maximum Working Pressure (Water)	1.25 bar
Flue Gas Temperature at Nominal Heat Output	222.0 °C
CO Emission (13% O ₂ , dry wood)	1237.5 mg/Nm ³ (0.0990 %)
Dust Emission (13% O ₂ , dry wood)	30.9 mg/Nm ³
OGC Emission (13% O ₂ , dry wood)	58.8 mg/Nm ³
NO _x Emission (13% O ₂ , dry wood)	145.0 mg/Nm ³
Material	Stainless steel
Color	Black
Assembly Required	No
Fuel Type	Wood
Mounting Type	Freestanding



Figure 5: This image represents the Declaration of Performance document for the Prity WDW29, outlining key technical specifications and compliance standards. Please refer to the actual document for full details.

8. WARRANTY AND SUPPORT

For warranty information, technical support, or spare parts availability, please contact your retailer or the manufacturer directly.

- **Manufacturer:** Prity 95 Ltd.
- **Address:** 33, M. Raykovich str., 5140 Lyaskovets, Bulgaria
- **Website:** www.prity-bg.com
- **ASIN:** B09VL73BVS
- **Barcode/UPC:** 3800215094156

Please have your model number (WD W29) and ASIN (B09VL73BVS) ready when contacting support.

