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BALKAN ENERGY FM

Prity FM 12kW Wood Stove with Wood Compartment

USER MANUAL

Model: FM | Brand: BALKAN ENERGY

1. Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your BALKAN ENERGY Prity FM 12kW Wood Stove. Please read this manual thoroughly before using the appliance and retain it for future reference. This wood-burning stove is designed to provide comfort and warmth, featuring a combustion chamber reinforced with fireproof stones, a heat-resistant ceramic glass, and a built-in oven.

2. Safety Information

WARNING: Failure to follow these safety instructions could result in fire, property damage, or personal injury.

- **HOT SURFACE!** Contact may cause burns. The stove's surfaces become extremely hot during operation. Always use heat-resistant gloves when handling the stove or its components.
- **DO NOT OPEN THE DOORS WITHOUT HEAT RESISTANT SAFETY GLOVES!** Always wear appropriate protective gloves when opening the combustion chamber or oven doors to prevent burns.
- **FRAGILE EQUIPMENT! BE CAREFUL WITH THE GLASS!** The ceramic glass on the combustion chamber and oven doors is heat-resistant but can break if subjected to impact. Handle with care and avoid striking the glass.
- Ensure proper ventilation and chimney connection as per local building codes and regulations.
- Only use recommended fuels (dry wood, coal). Do not burn trash, plastics, or treated wood, as this can produce toxic fumes and damage the stove.
- Keep flammable materials at a safe distance from the stove. Refer to local regulations for minimum clearances.
- Never leave the stove unattended while in operation.
- Keep children and pets away from the hot surfaces of the stove.

Informationsblad	
Delegerad förordning (EU) 2015/1186	
Leverantörens namn eller varumärke	PRITY 95
Modellbeteckning	FM
Energieffektivitetsklass	A
Direkt värmeeffekt	12,1 kW
Indirekt värmeeffekt	- kW
Energieffektivitetsindex	104
Nyttoverkningsgrad (vid nominell avgiven värmeeffekt)	77,7 %
Nyttoverkningsgrad (vid minsta belastning)	- %
Särskilda försiktighetsåtgärder	Моля, прочетете и спазвайте инструкциите за монтаж, използване и поддръжка.
Modell utsläppt på unionsmarknaden från 18/04/2016	
	
EPREL-registreringsnummer: 1269880	https://eprel.ec.europa.eu/gr/1269880
Leverantör: PRITY 95 LTD (Tillverkare)	Webbplats: www.prity-bg.com
Kundsupport:	
Namn: PRITY 95 Ltd.	Webbplats: www.prity-bg.com
E-postadress: prity95@live.com	Telefon: +359 884 941 948
Adress: 33 "Maksim Raykovich" Str, 5140 Lyaskovets, BULGARIA	
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Image: Important safety warnings regarding hot surfaces, fragile glass, and the necessity of heat-resistant gloves.

3. Product Features and Components

The Prity FM 12kW Wood Stove is designed for efficient heating and includes several key features:

- **Combustion Chamber:** Reinforced with fireproof stones to accumulate heat and increase combustion temperature. Equipped with heat-resistant ceramic glass for viewing the fire.
- **Cast Iron Grate:** Durable grate for supporting fuel during combustion.
- **Manual Dampers:**
 - **Front Damper:** This controls the primary air supply.
 - **Smoke Damper:** This adjusts flame intensity and controls exhaust.
- **Built-in Oven:** Located above the combustion chamber, suitable for cooking and baking.
- **Wood Compartment:** Integrated compartment below the combustion chamber for storing and drying damp wood.
- **Wooden Door Handles:** Ergonomically designed handles for safe operation.
- **Cast Iron Top Plate:** Durable top surface.



Image: Front view of the Prity FM 12kW Wood Stove, showing the main combustion chamber with burning wood and the upper oven compartment.



Image: Front view of the stove with the lower combustion chamber door open, displaying the internal fireproof stones and cast iron grate.



Image: Side view of the stove with both the oven and combustion chamber doors open, providing a view of the internal structure and the ash drawer.



Image: Rear view of the Prity FM 12kW Wood Stove, highlighting the flue pipe connection point at the top.

4. Technical Specifications

Detailed specifications for the Prity FM 12kW Wood Stove:

Parameter	Unit	Value
Type of fuel		Dry woods with a moisture content of $\leq 20\%$
Energy efficiency class		A
Energy efficiency index (EEI)		104
Seasonal space heating energy efficiency (η_s)	%	69
Room Heating output	kW	12.1
Flue gas temperature at nominal heat output	$^{\circ}\text{C}$	227
Energy efficiency at the nominal heat output	%	77.7
CO (at 13% O_2)	mg/Nm ³	734
PM (at 13% O_2)	mg/Nm ³	24

Parameter	Unit	Value
NOx (at 13% O ₂)	mg/Nm ³	105
OGC (at 13% O ₂)	mg/Nm ³	18
Exhaust gas mass flow rate	g/s	9.3
Minimum chimney draft	Pa	11
Flue pipe diameter	mm	130
Fuel consumption	kg/h	3.9
Overall dimensions (H x W x D)	mm	930 x 460 x 490
Combustion chamber dimensions (H x W x D)	mm	315 x 430 x 490
Oven dimensions (H x W x D)	mm	190 x 370 x 345
Net weight	kg	97



Image: Detailed product information and technical specifications table for the Prity FM wood stove.



Image: Dimensional diagram of the Prity FM wood stove, indicating its height (93cm), width (46cm), and depth (49cm).

5. Installation Guidelines

Proper installation is crucial for the safe and efficient operation of your wood stove. It is highly recommended to have the installation performed by a qualified professional and to consult local building codes and fire regulations.

- **Location:** Choose a suitable location that allows for proper clearances from combustible materials. Ensure the floor can support the stove's weight (97 kg).
- **Chimney Connection:** The stove requires a 130mm diameter flue pipe. The outlet location is at the top of the stove. Ensure the chimney system is clean, in good condition, and provides adequate draft (minimum 11 Pa).
- **Clearances:** Maintain minimum distances from combustible materials as specified by local regulations and the Declaration of Performance (e.g., Minimum distance in mm: Rear = 400, Left and right sides = 400, Ceiling = 600, Front = 800).
- **Ventilation:** Ensure adequate fresh air supply to the room where the stove is installed to support combustion and prevent negative pressure.
- **First Burn:** During the initial burns, the stove may emit an odor as the paint cures. Ensure good ventilation during this period.

6. Operating Instructions

Follow these steps for optimal performance and safety:

- **Fuel:** Use only dry wood with a moisture content of $\leq 20\%$ or coal. Properly seasoned wood burns more efficiently and produces less creosote.
- **Loading Fuel:** Open the combustion chamber door using heat-resistant gloves. Place kindling and a few small pieces of wood on the cast iron grate.
- **Ignition:** Ignite the kindling. Once a small fire is established, gradually add larger pieces of wood.

- **Air Control (Dampers):**

- **Front Damper:** This controls the primary air supply. Open it fully during ignition to establish a strong draft. Once the fire is burning well, gradually close it to control the burn rate and heat output.
 - **Smoke Damper:** This adjusts the flame intensity and chimney draft. Adjust it to achieve a steady, efficient burn.
- **Refueling:** When the fire dies down and only embers remain, carefully open the combustion chamber door and add more fuel. Avoid overfilling the chamber.
 - **Oven Use:** The upper compartment functions as an oven. Its temperature will vary depending on the intensity of the fire in the combustion chamber. Monitor food closely.
 - **Factors Affecting Heat Output:** The desired heat output depends on the selected fuel's caloric value and moisture, subsequent lighting and refueling practices, and the control of primary and secondary air.



Image: The Prity FM wood stove in operation, showing a fire burning within its combustion chamber.

7. Maintenance and Care

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

- **Ash Removal:** Regularly remove ash from the ash pan beneath the grate. Do not allow ash to build up and touch the bottom of the grate, as this can restrict airflow and damage the grate. Dispose of ash in a metal container with a tight-fitting lid, away from combustible materials.
- **Glass Cleaning:** The ceramic glass can be cleaned when the stove is cold using a specialized glass cleaner for wood stoves. Avoid abrasive cleaners.
- **Chimney Inspection and Cleaning:** Have your chimney inspected and cleaned by a certified chimney sweep at least once a year, or more frequently if you burn resinous wood or notice excessive creosote buildup.
- **General Inspection:** Periodically check all seals, hinges, and dampers for wear and tear. Replace any worn parts promptly.

8. Troubleshooting

If you encounter issues with your stove, consider the following common problems and solutions:

- **Poor Draft / Smoke Backing Up:**
 - Check if the chimney is blocked or needs cleaning.
 - Ensure dampers are open sufficiently.
 - Verify adequate room ventilation.
 - Ensure fuel is dry and properly sized.
- **Low Heat Output:**
 - Ensure you are using dry, seasoned wood with high caloric value.
 - Adjust dampers to allow more air for combustion.
 - Check for excessive ash buildup.
- **Excessive Smoke:**
 - Ensure fuel is dry.
 - Increase primary air supply (front damper).
 - Check chimney draft.
- **Glass Blackening:**
 - Ensure fuel is dry and burning efficiently.
 - Increase primary air supply.
 - Clean the glass when the stove is cold.

For persistent issues, contact a qualified technician or the manufacturer's support.

9. Warranty and Support

This product is manufactured by Prity 95 Ltd. and is CE certified, meeting EN standards (EN 13240:2001/A2:2004/AC:2007) and complying with EU Regulation 2015/1186 for energy efficiency.

- **Manufacturer:** Prity 95 Ltd.
- **Address:** 33 "Maksim Raykovich" Str, 5140 Lyaskovets, BULGARIA
- **Website:** www.prity-bg.com
- **Email:** prity95@live.com
- **Phone:** +359 884 941 948
- **EPREL Registration Number:** 1269880 ([View on EPREL database](#))

For warranty claims or technical support, please contact the manufacturer directly using the provided contact information. Keep your purchase receipt as proof of purchase.

Productkaart

Gedelegeerde Verordening (EU) 2015/1186

Naam of handelsmerk leverancier	PRITY 95
Typeaanduiding	FM
Energie-efficiëntieklasse	A
Directe warmteafgifte	12,1 kW
Indirecte warmteafgifte	- kW
Energie-efficiëntie-index	104
Nuttige energie-efficiëntie (bij nominale warmteafgifte)	77,7 %
Nuttige energie-efficiëntie (bij minimale belasting)	- %
Specifieke voorzorgsmaatregelen	Моля, прочетете и спазвайте инструкциите за монтаж, използване и поддръжка.

Model in de EU in de handel gebracht van 18/04/2016



EPREL-registratienummer: 1269880

<https://eprel.ec.europa.eu/qr/1269880>

Leverancier: PRITY 95 LTD (Fabrikant)

Website: www.prity-bg.com

Dienst voor klantenservice:

Naam: PRITY 95 Ltd.

Website: www.prity-bg.com

E-mail: prity95@live.com

Telefoon: +359 884 941 948

Adres:

33 "Maksim Raykovich" Str, 5140 Lyaskovets, BULGARIA

Image: Declaration of Performance document, confirming the stove's compliance with European standards and regulations.


ECO DESIGN 2022	BimSchV2 Art. 15a B-VG	DECLARATION OF PERFORMANCE according to Regulations 305/2011 of EU № 012 / 10.01.2022
1. Unique identification code of the product-type:	FIREPLACES PRITY FM,PRITY FME,PRITY FMSRM,PRITY FMRK,PRITY FMD,PRITY F.RK	
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:	Термолла ЕООД - NB 2608	
Test report number and date:	12/08.02.2016	
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	
- Clearability	Pass	
Emission of combustion products : (13% O ₂ ; Fuel type dry wood)	Pass	
	CO 733,8 mg/Nm ³ ; 0,0587 % Dust 24,0 mg/Nm ³ CO ₂ 17,6 mg/Nm ³ NO _x 104,7 mg/Nm ³	
- Flue gas temperature at nominal heat output	T [227 °C]	
Surface temperature	Pass	
Electrical safety	NPD	
Release of dangerous substances	NPD	
Maximum working pressure of the water	NPD	
Mechanical resistance (to carry a chimney/flue)	NPD	
Thermal output/energy and seasonal efficiency	Pass	
- Nominal heat output, (Chimney traction 12 Pa.)	12,1 kW	
- Room heating output	12,1 kW	
- Water heating output	+kW	
- Energy efficiency at the nominal heat output:	η [77,7 %]	
- Seasonal energy efficiency	η _s [68,7 %]	
8. The performance of the product identified above is in conformity with the set of declared performances indicated in item 7.		
This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.	Aleksandar Petrov, General Manager Eugen Gergely, Manager Lyaskovets, 10.01.2022	
Signed for and on behalf of the manufacturer by:		

Image: EU Energy Label for the Prity FM wood stove, indicating its energy efficiency class 'A' and a nominal heat output of 12.1 kW.