

Prity S3W17

Prity S3W17 Multi-fuel Stove User Manual

Model: S3W17

1. INTRODUCTION

Thank you for choosing the Prity S3W17 Multi-fuel Stove. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your new stove. Please read these instructions carefully before using the appliance and keep them for future reference.

The Prity S3W17 is a freestanding multi-fuel stove designed for heating residential premises using solid fuel, wood briquettes, or dry wood. It features a water jacket for central heating integration and a direct room heating output.

2. SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

2.1 General Safety Guidelines

- Always ensure adequate 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.
- Regularly inspect the flue pipe and chimney for blockages or damage.
- Only use recommended fuels. Burning unsuitable materials can damage the stove and create hazardous emissions.
- Ensure smoke detectors and carbon monoxide detectors are installed and functioning correctly in your home.

2.2 Minimum Clearances to Combustible Materials

To prevent fire hazards, maintain the following minimum distances from combustible materials:

- **Rear:** 400 mm
- **Sides (Left and Right):** 400 mm
- **Ceiling:** 600 mm
- **Front:** 800 mm (safety information)

These clearances are critical for safe operation. Consult a qualified installer for specific requirements in your region.

2.3 Approved Fuels

This stove is designed for burning solid fuel, wood briquettes, or dry wood. Do not burn treated wood, household waste, plastics, or any other unapproved materials.

3. PRODUCT OVERVIEW

The Prity S3W17 is a robust multi-fuel stove constructed from cast iron and alloy steel, finished with a durable paint or powder coating. It features a large firebox, a glass door for flame viewing, and an ash pan for easy cleaning. The integrated water jacket allows for connection to a central heating system.



Figure 1: Front view of the Prity S3W17 Multi-fuel Stove.

3.1 Key Features

- Multi-fuel capability (wood, wood briquettes, solid fuel)
- Integrated water jacket for central heating (17 kW output)
- Direct room heating (5 kW output)
- Flame effect viewing window
- Adjustable air controls
- Ash pan for convenient ash removal

4. SETUP AND INSTALLATION

Installation of the Prity S3W17 stove must be carried out by a qualified professional in accordance with all local and national building codes and regulations.

4.1 Unpacking and Placement

1. Carefully unpack the stove, removing all packaging materials. Inspect for any damage incurred during transit.
2. Position the stove on a non-combustible hearth or floor protector, ensuring it meets the minimum clearance requirements to combustible materials as outlined in Section 2.2.

4.2 Flue Connection

The stove requires a 130 mm diameter flue pipe connection. Ensure the flue system is correctly sized, installed, and sealed to prevent smoke leakage and ensure proper draft.



Figure 2: Rear view showing flue and water jacket connections.

4.3 Water Jacket Connection (for Central Heating)

If utilizing the water jacket for central heating, connect it to your heating system according to plumbing regulations. The water jacket has a volume of 23 liters and a maximum working pressure of 1.25 bar. Ensure all connections are watertight and the system is properly bled of air.

5. OPERATING INSTRUCTIONS

5.1 First Fire

Before the first use, ensure the stove and flue system are correctly installed. The first few fires should be small to allow the paint to cure. During this process, some odor and smoke may be emitted, so ensure good ventilation.

5.2 Loading Fuel

1. Open the firebox door slowly to prevent smoke spillage.
2. Place approved fuel (e.g., dry wood logs up to 42 cm in length) into the firebox. Do not overfill.
3. Close the firebox door securely.

5.3 Ignition

1. Open the primary air control (usually located on the ash pan drawer) fully.
2. Place kindling and a firelighter on top of the fuel.
3. Ignite the firelighter.
4. Once the fire is established, gradually close the primary air control to achieve the desired burn rate.

5.4 Air Control

The stove features adjustable air controls to regulate the combustion rate and heat output:

- **Primary Air:** Controls the air entering the bottom of the firebox, primarily for starting fires and burning solid fuels.
- **Secondary Air:** Controls air entering above the fuel, aiding in cleaner combustion and flame effect.

Experiment with the air controls to find the optimal settings for your fuel and desired heat output.

5.5 Timer Function

The stove includes a timer feature. Refer to the specific timer controls on your appliance for programming instructions. This allows for scheduled operation, enhancing convenience.

6. MAINTENANCE

Regular maintenance is crucial for the safe and efficient operation of your Prity S3W17 stove.

6.1 Ash Removal

Empty the ash pan regularly, ideally when the stove is cold. Do not allow ash to build up and touch the bottom of the grate, as this can restrict airflow and damage the grate.

6.2 Cleaning the Glass

Clean the glass viewing window when the stove is cold using a damp cloth and a non-abrasive stove glass cleaner. Avoid cleaning hot glass, as it may crack.

6.3 Chimney and Flue Sweeping

The chimney and flue pipe should be swept at least once a year, or more frequently if burning resinous wood, by a qualified chimney sweep. This prevents creosote buildup, which can lead to chimney fires.

6.4 General Inspection

Periodically inspect the stove for any signs of wear or damage, including seals, hinges, and air controls. Replace any worn parts promptly.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Smoke coming into the room	Blocked chimney/flue, poor draft, door opened too quickly, downdraft.	Check for blockages, ensure adequate air supply, open door slowly, consult a chimney sweep.
Fire not burning well/low heat output	Wet fuel, insufficient air supply, chimney blockage, stove too small for room.	Use dry fuel, open air controls, check chimney, ensure stove is appropriately sized.
Excessive burning/over-firing	Too much air, too much fuel, faulty door/glass seals.	Reduce air supply, use less fuel, check and replace seals if necessary.
Glass blackens quickly	Wet fuel, insufficient secondary air, low burning temperature.	Use dry fuel, adjust secondary air, ensure hotter burn.

If you cannot resolve an issue, contact a qualified technician or your supplier.

8. SPECIFICATIONS

Feature	Specification
Model	S3W17
Brand	Prity
Total Thermal Power	22 kW
Water Jacket Output	17 kW (Nominal: 13.1 kW)
Room Heating Output	5 kW (Nominal: 4.7 kW)
Efficiency	75.5%

Feature	Specification
Approximate Heating Area	125 m ²
Dimensions (W x D x H)	570 mm x 530 mm x 930 mm (57 cm x 53 cm x 93 cm)
Firebox Dimensions (W x D x H)	430 mm x 450 mm x 550 mm
Max Log Length	42 cm (450 mm chamber depth)
Weight	118 kg
Flue Diameter	130 mm
Water Jacket Volume	23 Liters
Max Water Working Pressure	1.25 bar
Material	Cast Iron, Alloy Steel
Standard	CE EN 13240:2001/A2:2004/AC:2007
Flue Gas Temperature	190°C
Dust Content in Flue Gas	0.0309 g/m ³
CO in Flue Gas	1.27% (0.1017%)



Figure 3: Prity S3W17 Stove Dimensions.

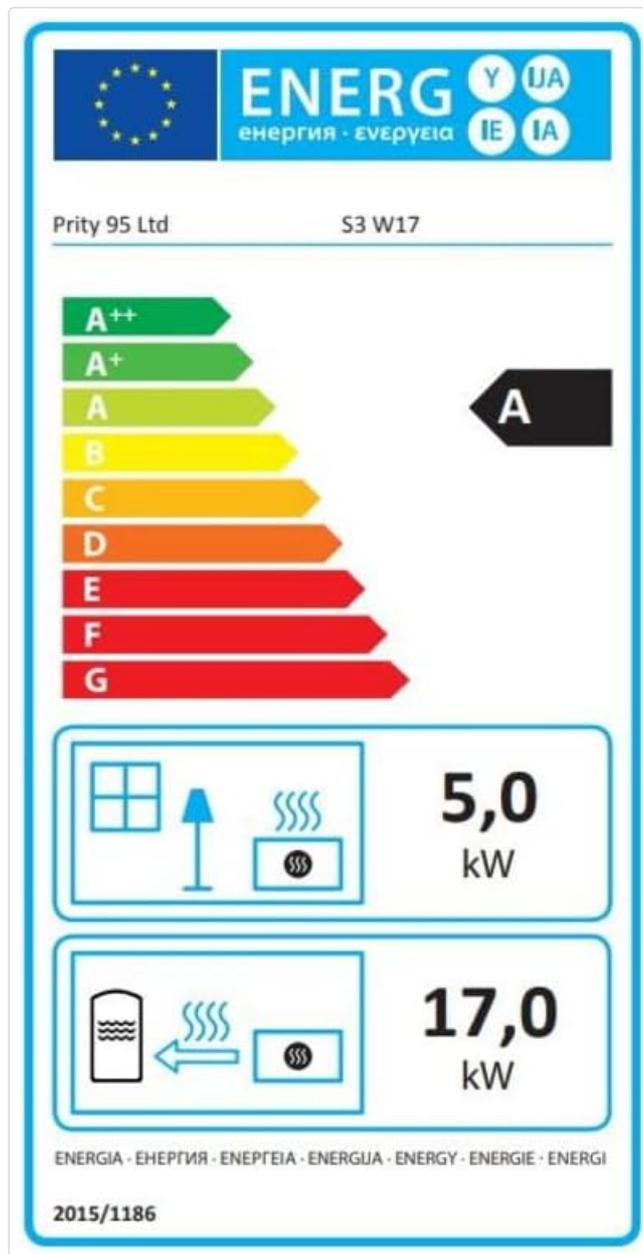


Figure 4: EU Energy Label for Prity S3W17.

ECO DESIGN
2022

BImSchV2
Art. 15a B-VG

DECLARATION OF PERFORMANCE
according to Regulation 305/2011 of EU
№ 007 / 10.01.2022

1. Unique identification code of the product-type:	FIREPLACE PRITY S3W17
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: According regulation: Notified body: Test report number and date:	EN 13240:2001/A2:2004/AC:2007 EU 2015/1185 ; EU 2015/1186 of 24 april 2015 Термоплам ЕООД - NB 2608 0005/03.12.2015
7. Declared performances:	
Essential characteristics:	Performances:
Fire safety	Pass
- Fire classification	A1
- Distances from combustibile 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 combustibile material falling out	Pass
- Cleanability	Pass
Emission of combustion products : (13% O ₂ ; Fuel type dry wood)	Pass CO 1271,3 mg/Nm ³ ; 0,1017 % Dust 30,9 mg/Nm ³ CxHy 46,5 mg/Nm ³ NOx 68,7 mg/Nm ³
- Flue gas temperature at nominal heat output	T [190 °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.)	17,8 kW
- Room heating output	4,7 kW
- Water heating output	13,1 kW
- Energy efficiency at the nominal heat output:	η [75,5 %]
- Seasonal energy efficiency	η_s [66,5 %]
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.
Signed for and on behalf of the manufacturer by:

Aleksandar Petrov Geranliev – Manager

Evgeni Georgiev Ivanov – Manager

Lyaskovets 10.01.2022



Figure 5: Declaration of Performance for Prity S3W17.

9. WARRANTY AND SUPPORT

The Prity S3W17 stove comes with a limited warranty. Please refer to your purchase documentation for specific terms and conditions of the warranty. For technical support, spare parts, or warranty claims, please contact your retailer or the manufacturer, Prity.

Manufacturer: Prity 95 Ltd.

Address: 30, M. Raikovitch str., 5140 Lyaskovets, Bulgaria

Unique Product Identification Code: FIREPLACE PRITY S3W17

ASIN: B07X3KKKTH

UPC/EAN: [3800215093692](#)