

Prity AW16

Prity AW16 Corner MultiFuel Wood Stove Insert User Manual

1. PRODUCT OVERVIEW

The Prity AW16 is a wood-burning fireplace insert designed for corner placement, featuring a water jacket for integration into a central heating system. It is equipped with heat-resistant ceramic glass, a cast iron grate, and wooden handles for safe operation. Control over air supply and flame intensity is managed via front and smoke dampers.



Image 1.1: The Prity AW16 wood stove insert with a fire burning in the combustion chamber.

2. IMPORTANT SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in property damage, injury, or death.

- Always ensure proper ventilation during operation.
- Only use approved fuel types (dry wood, wood briquettes).
- Keep children and pets away from the hot surfaces of the stove.
- Do not store flammable materials near the stove.
- Regularly inspect the chimney and flue for blockages or damage.
- Ensure minimum clearances to combustible materials are strictly observed:

- Rear: 400 mm
- Left and Right Sides: 400 mm
- Ceiling: 600 mm
- Front: 800 mm (within the entire radiation area of the glass)
- Floor: 0 mm (if non-combustible)

3. INSTALLATION GUIDE

3.1 Placement

The Prity AW16 is designed as an insert for corner installations. Ensure the chosen location can support the stove's weight and meets all safety clearance requirements.

3.2 Dimensions and Clearances

Accurate measurements are crucial for safe and effective installation.

- Total Dimensions (L x W x H): 1010 x 690 x 730 mm
- Combustion Chamber Dimensions (L x W x H): 880 x 550 x 370 mm
- Weight: 125 kg
- Flue Pipe Diameter: 200 mm



Image 3.1: The Prity AW16 wood stove insert integrated into a corner fireplace setting in a living room.

3.3 Connection to Central Heating

This model includes a water jacket for connection to a central heating system. Professional installation by a qualified technician is highly recommended for this component to ensure proper function and safety. The water

jacket volume is 34 liters.

4. OPERATING INSTRUCTIONS

4.1 Fuel Type

The Prity AW16 is designed for burning solid fuels, specifically dry wood or wood briquettes. Do not use liquid fuels, trash, or treated wood, as this can damage the stove and pose a safety hazard.

4.2 Loading Fuel

Open the main door using the wooden handle. Place dry wood or briquettes onto the cast iron grate. Avoid overfilling the combustion chamber. Close the door securely before igniting or adjusting air controls.

4.3 Air Control

The stove features a front damper to control the primary air supply to the combustion chamber. Adjust this damper to regulate the intensity of the fire. For initial ignition, keep the damper fully open. Once the fire is established, you can reduce the air supply to achieve a slower burn.

4.4 Flame Intensity

A smoke damper is provided to further adjust the flame intensity and control the rate at which exhaust gases leave the combustion chamber. Use this in conjunction with the front air damper to optimize burning efficiency and heat output.

5. MAINTENANCE

5.1 Cleaning

- **Ash Removal:** Regularly remove ash from the ash pan beneath the cast iron grate. Ensure the stove is completely cool before handling ash.
- **Glass Cleaning:** The ceramic glass can be cleaned when cool using a specialized fireplace glass cleaner or a damp cloth dipped in ash.
- **Flue and Chimney:** Have your flue and chimney inspected and cleaned by a qualified professional at least once a year, or more frequently depending on usage.

5.2 Inspection

Periodically inspect the stove for any signs of wear or damage, including:

- Cracks in the ceramic glass.
- Damage to the door seals.
- Loose or damaged components (dampers, handles).
- Corrosion or damage to the water jacket connections.

Any damaged parts should be replaced immediately by a qualified technician.

6. TROUBLESHOOTING

This section provides general guidance for common issues. For complex problems, consult a qualified technician.

- **Poor Draft/Smoke Backflow:** Check for chimney blockages, ensure dampers are open, and verify

proper chimney height and insulation.

- **Low Heat Output:** Ensure you are using dry, seasoned wood. Check air damper settings and ensure the combustion chamber is not overfilled. Verify water jacket connections are functioning correctly if connected to central heating.
- **Excessive Burn Rate:** Adjust the front air damper and smoke damper to reduce air supply. Ensure door seals are intact.

7. TECHNICAL SPECIFICATIONS

Specification	Value
Model Number	AW16
Brand	Prity
Total Dimensions (L x W x H)	1010 x 690 x 730 mm
Combustion Chamber Dimensions (L x W x H)	880 x 550 x 370 mm
Weight	125 kg
Nominal Heating Power (Total)	16 + 5 kW (21 kW)
Water Heating Output	16 kW
Room Heating Output	5 kW
Water Jacket Volume	34 Liters
Flue Pipe Diameter	200 mm
Heated Surface Area	Approx. 119 m ²
Heating Capacity	Approx. 323 m ³
Material	Glass, Wood, Ceramic, Cast Iron
Energy Class	A
Maximum Working Pressure (Water)	1.25 bar
Efficiency (Nominal Heat Output)	79.4%
ASIN	B06XH1PC8T
Product Identifier (from image)	3800215095108

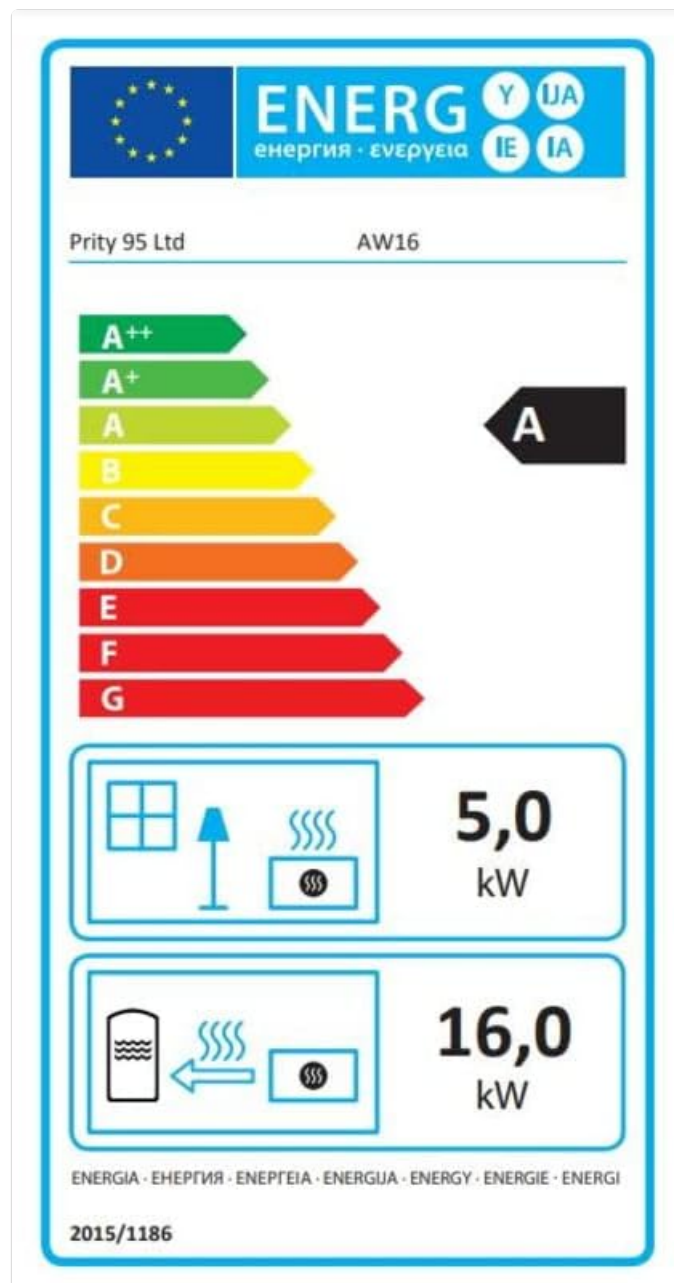


Image 7.1: Energy efficiency label for the Prity AW16, showing an A rating and heat outputs.

1. Unique identification code of the product-type:	PRITY AW16
2. Intended use:	Fireplaces for building-in 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 13229:2001/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:	70/26.10.2017
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 26,1 mg/Nm ³ CxHy 19,8 mg/Nm ³ NOx 96,7 mg/Nm ³
- Flue gas temperature at nominal heat output	T [227,4 °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.)	21,0 kW
- Room heating output	5,0 kW
- Water heating output	16,0 kW
- Energy efficiency at the nominal heat output:	η [79,4 %]
- Seasonal energy efficiency	η _s [70,4 %]
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:

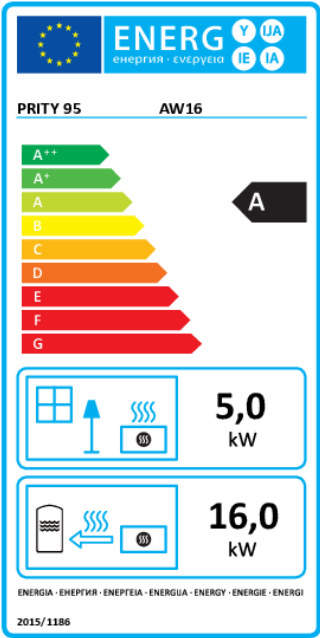
Aleksandar Petrov Geranliev – Manager

Evgeni Georgiev Ivanov – Manager

Lyaskovets 11.01.2022

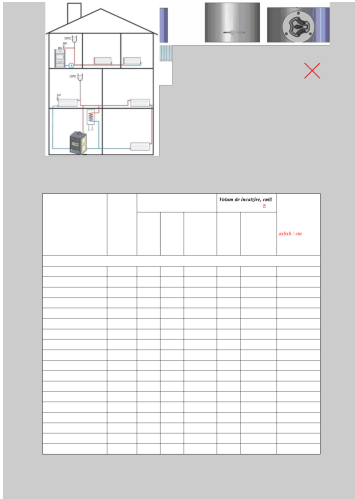


Image 7.2: Declaration of Performance for the Prity AW16, detailing essential characteristics and compliance with EU regulations.



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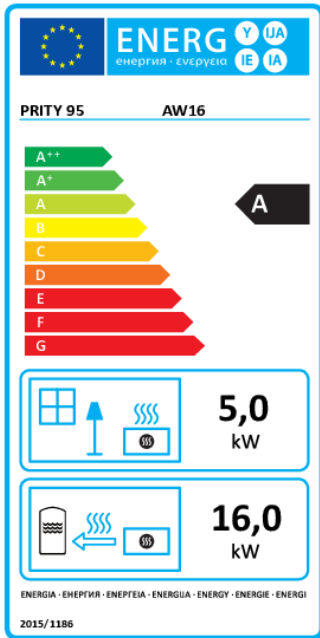
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TSO DESIGN	Serial No	DECLARATION OF PERFORMANCE according to Regulation (EU) 2015/1186
2022	AW16-1186	PRITY 95 AW16
1. Unique identification code of the product type		PRITY 95 AW16
2. Intended Use		Heating system for heating in the heating resistor
3. Mark holder		PRITY 95 AW16 21. M. Balkanenergy PRITY 95 AW16
4. Authorized manufacturer		PRITY 95 AW16
5. Operator of the CE		PRITY 95 AW16
6. Harmonized standard		EN 12831:2017 (EN 12831:2017)
7. Declaration of conformity		PRITY 95 AW16
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