

TECHNICAL DATA SHEET

№ 10-5-1

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Freestanding roomheater for intermittent burning with firedoors closed.

Designation : **PARMA SL, PARMA L, PARMA**
Types of appliance: Type B (BDS EN 16510-1:2023)
Fuel type: Dry cleaved wood logs humidity level 25%
Heating volume: 95 m³

Technical data and parts of the stove.

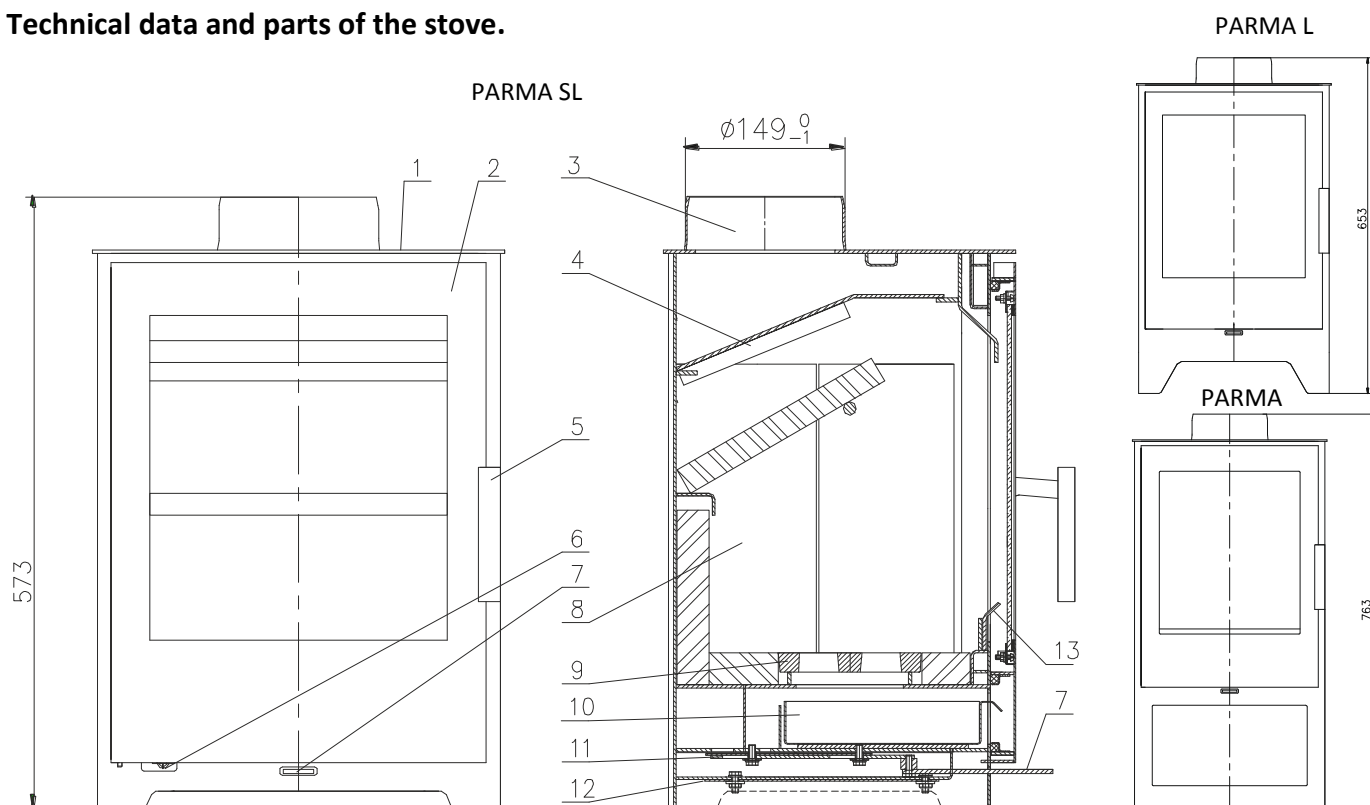


Fig. 1.

1.Body; 2. Fire door; 3. Flue socket; 4.Top deflector; 5 Handle; 6. Spring; 7.Handle for regulator; 8.Brick set; 9.Cast iron grate; 10.Ashtray; 11.Air regulator; 12.Air box; 13.Safety bar.

QR code to the required product information on the manufacturer's freely accessible website.

- Declaration of performance
- Declaration of conformity
- Technical documentation
- Energy efficiency label
- Product fiche
- Instruction manual



PARMA SL



PARMA L




PARMA



The wood burning stove is produced and tested in accordance with EU standard EN 16510-2-1:2023

TECHNICAL DATA SHEET
for wood burning stove PARMA SL, PARMA L, PARMA
in accordance with table 22 (EN 16510-1:2023)

Parameters	Unit	Explanation	Value when fuel is wood
P_{nom}	kW	the nominal heat output or a range of outputs (dependent on fuel types)	5,2
η_{nom}	%	the appliance efficiency at nominal heat output	≥ 75
η_s	%	the appliance seasonal space heating efficiency at nominal heat output	≥ 65
EEI	-	the energy efficiency index	119
CO_{nom} (13% O ₂)	mg/m ³	CO emission at 13 % oxygen content at nominal heat output	≤ 1500
NOx_{nom} (13% O ₂)	mg/m ³	NOx emission at 13 % oxygen content at nominal heat output	≤ 200
OGC_{nom} (13% O ₂)	mg/m ³	hydrocarbon emission at 13 % oxygen content at nominal heat output	≤ 120
PM_{nom} (13% O ₂)	mg/m ³	particulate matter emission at 13 % oxygen content at nominal heat output	≤ 40
P_{nom}	Pa	minimum flue draught at nominal heat output	11
d_R	mm	the minimum distances from the rear to combustible material (Fig.2)	400
d_S	mm	the minimum distances from the sides to combustible material (Fig.2)	500
d_C	mm	the minimum distances from the top to combustible material in the ceiling, (Fig.2)	800
d_P	mm	the minimum distances from the front to combustible material (Fig.2)	1100
d_F	mm	the minimum distances from the front to combustible material in bottom front radiation area (Fig.2)	600
d_L	mm	the minimum distances from the front to combustible material in side front radiation area (Fig.2)	800
T_{snom}	°C	the flue gas outlet temperature at nominal heat output	164
$\Phi_{f,g nom}$	g/s	the flue gas mass flow at nominal heat output	3,9
T_{class}	-	Chimney designation according to the appropriate chimney standard	T400G
CON или INT	-	whether the appliance is capable of continuous operation (CON), whether the appliance is capable of intermittent operation (INT)	INT
d_{out}	mm	the diameter of the flue gas outlet	150
d_{non}	mm	The minimum distances to non-combustible walls	200
m_{chim}	kg	the maximum load of a chimney the appliance may carry	20
	-	meaning "read and follow the user operating instructions"	

Parameters	Unit	Explanation	Parma SL	Parma L	Parma
m	kg	Mass of the appliance	39	40	44
L, H, W	cm	the overall dimensions of the appliance (length, height, width)	38 / 57 / 38	38 / 65 / 38	38 / 76 / 38
d_B	mm	the minimum distances below the bottom (not regarding feet) to combustible material (Fig.2)	40		0

Required safety distances during installation and operation of the wood burning stove for preventing fire hazard:

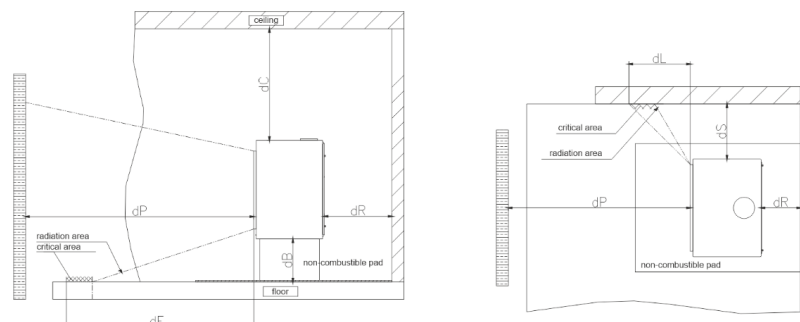


Fig. 2.

Appliance operation.



The standard requirements for wood burning stove operation are described in chapter 2 and 3 in the instruction manual.

The niche (Parma) is decorative and it's not allowed to store easy combustible materials.

- When non-combustible platform is used for fire protection, it must be larger than the stove with 50 cm in front and 30 cm at the sides. Measurement is taken from the fire door. If there are any combustible materials or constructions, the wood-burning stove should be away from them at minimum 80 cm or fire proof deflector should be installed.
- The chimney should be very well insulated and suitable for temperatures of the flue gasses of minimum 400 °C, with inside diameter of at least \varnothing 150 mm or with a cross-section area of at least 200 cm². Chimney fire-safety class -T400G.
- **The wood-burning stove should not be connected to a chimney when there is already a connected solid fuel boiler.**

If the stove does have a spring for self-closing fire door it can be used in a common chimney. Presence of a spring for self-closing fire door is indicated on the packing label and described in the technical data sheet.

Control of the burning process.



Prior first usage of the appliance, the user should get familiar with all parts and control devices.

The combustion process is controlled with the supplied primary and secondary air by the regulator (Fig.1, Pos. 7). The combustion rate is increased by pulling the lever from position "0" to position "max" (Fig.3). This allows more air to be send to the combustion chamber. Primary air is used during ignition of the stove and for control of the burning intensity. Primary air is adjusted by the position of the air regulator (Fig.3). By pulling the air regulator (Fig.1, Pos. 11) the heat output of the stove is increased. Respectively when pushed in towards the stove the heat output decreases. Primary air is required for faster ignition of the fire. The primary air passes through the ash pan, the bottom grate and goes into the firebox. The ashtray should not be left fully filled. If full, it will prevent the primary air to get in the combustion chamber. It is necessary to clean the ash pan regularly. **The ashtray is cleaned only when it is cold.**

Secondary air is used for preventing the accumulation of dust on the glass. The air is channeled above deflector at the top part of the fire door. The secondary air supply is increased when the air regulator is pulled out (Fig.3).

As the heat output of your appliance depends also on the height of the chimney, the precise control of the necessary air for the combustion is done by trial.

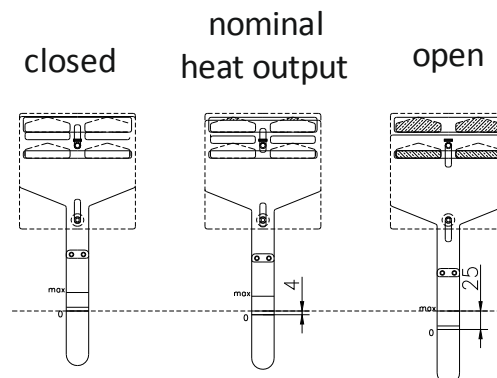


Fig.3

Initial ignition of the appliance.

At the first ignition of the appliance, pay attention to the following:

- Take off all the supplementary tools out of the ash pan..
- The regulator for primary and secondary air have to be in open position (pulled to maximum).
- Remove the energy efficiency label.
- The first ignition must be slow and still, with little quantity of sticks and paper
- **Only during the first ignition, it is necessary to leave the fire door slightly open, to prevent sticking of the sealing rope of the fire door onto the paint.**

Ignition during regular exploitation.

Your appliance is constructed and designed for intermittent burning.

At each ignition, you must do the following:

- The regulator for primary and secondary air have to be in open position (pulled to maximum).
- Put the basic combustion materials, ignite them and close the door completely.
- After the kindling has burned down, you must wait few minutes until good embers form. After that, the embers must be collected in the middle. Then you can put 2 - 3 wood logs on top of it.
- After the wood is burning well, the preferred heat output is achieved by regulating the combustion air (fig.3).

Fuel quantity and reloading interval

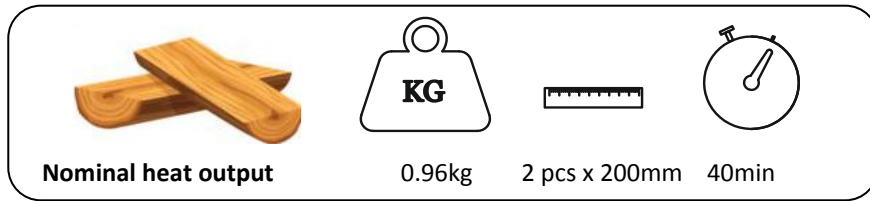


Fig.4.



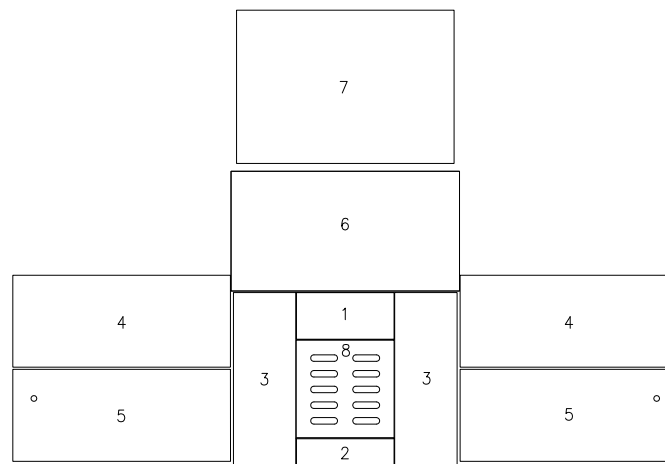
Фиг.5.



- Maximum allowed height of the used fuel in the combustion chamber is 150 mm (Fig.5).
- When more fuel than the maximum allowed is used, there is a danger of overheating, unexpected deformations and overall bad appearance of the appliance.

Spare parts.

Scheme of the used bricks and grate



Фиг.6.

N	Designation	Dimensions / number	Material	Quantity
1	Brick	30 x 64 x 135	Schamotte	1
2	Brick	30 x 40 x 135	Schamotte	1
3	Brick	30 x 86 x 240	Schamotte	2
4	Brick side	25 x 126 x 300	Vermiculitte	2
5	Brick side	196.00.00.26	Vermiculitte	2
6	Brick back	25 x 164 x 315	Vermiculitte	1
7	Brick top	25 x 210 x 300	Vermiculitte	1
8	Grate (135x135)	715.00.00.38	Cast iron	1
9	Ceramic glass	4 x 295 x 325		1
10	Handle			1
11	Door sealing	Rope ϕ 12		1
12	Glass sealing	Flat rope 10x2		1

Table. 2.