

Technical data sheet

№ 10-3-1

Victoria-05 Ltd

1B Ivan Momchilov Str, 5100 Gorna Oryahovitsa,
phone: +359 618 60200, e-mail: info@v05.bg, <http://www.v05.bg>

Freestanding roomheater for intermittent burning with firedoors closed

Designation: **RUBIN**
Types of appliance: Type B (БДС EN 16510-1:2023)
Fuel type: Dry cleaved wood logs humidity level 25%
Heating volume: 204 м³

Technical data and parts of the stove.

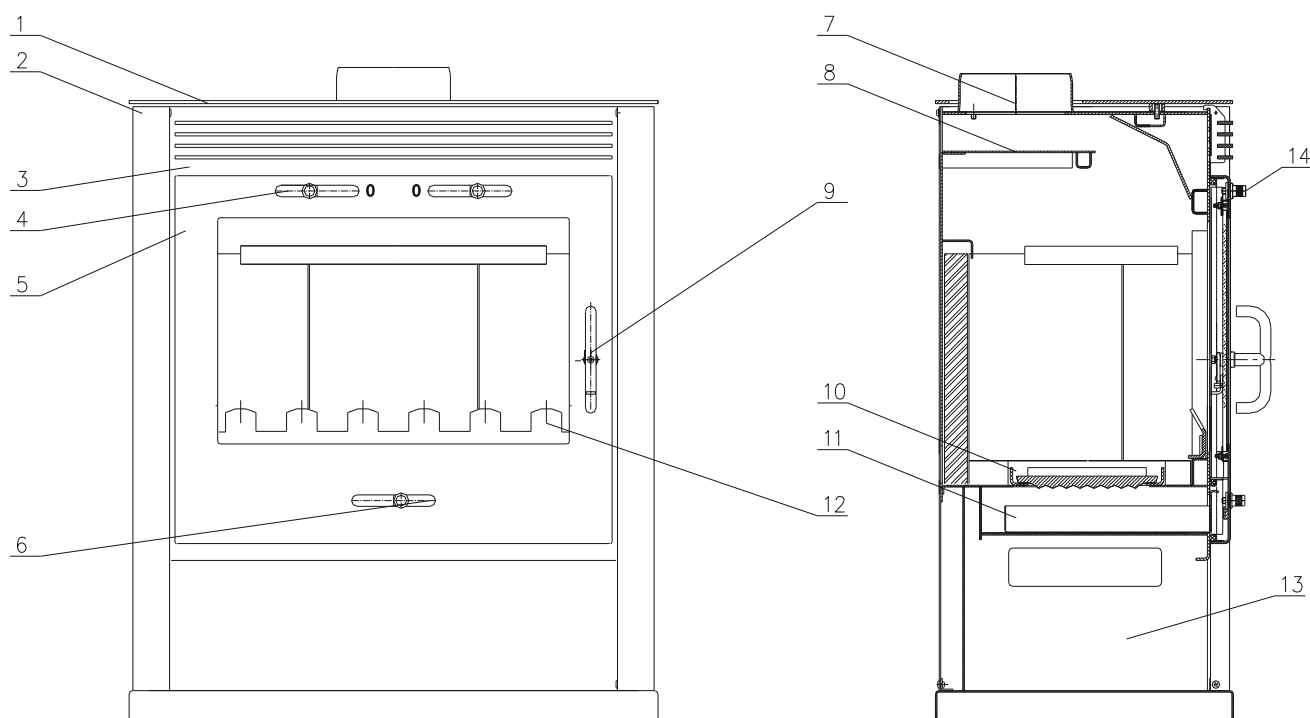


Fig.1.

1.Top plate; 2.Saide plate; 3.Body; 4.Secondary air inlet control; 5.Firedoor; 6.Primary air inlet control; 7.Flue socket; 8.Deflector;
9.Handle; 10.Bottomgrate; 11.Ashpan; 12.Front firebar; 13. Nishe; 14.Knob;

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 information sheet
- Instruction manual



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 RUBIN
in accordance with table 22 (EN 16510-1:2023)

Table.1.

Parameters at 13% O ₂	Unit	Explanation	Value for wood logs
P _{SHnom}	kW	The nominal space heat output or a range of outputs (dependent on fuel types)	11,4
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	102
CO _{nom}	mg/m ³	CO emission at 13 % oxygen content at nominal heat output	≤ 1500
NO _{xnom}	mg/m ³	NO _x emission at 13 % oxygen content at nominal heat output	≤ 200
OGC _{nom}	mg/m ³	Hydrocarbon emission at 13 % oxygen content at nominal heat output	≤ 120
PM _{nom}	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	12
T _{snom}	°C	The flue gas outlet temperature at nominal heat output	302
T _{class}	-	Chimney designation according to the appropriate chimney standard	T400G
Φ _{f,g nom}	g/s	The flue gas mass flow at nominal heat output	10,8
CON or 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
L, H, W	cm	The overall dimensions of the appliance (length, height, width)	69 / 85 / 44
m	kg	Mass of the appliance	114
m _{chim}	kg	The maximum load of a chimney the appliance may carry	20
d _R	mm	The minimum distances from the rear to combustible material	500
d _S	mm	The minimum distances from the sides to combustible material	500
d _C	mm	The minimum distances from the top to combustible material in the ceiling	900
d _P	mm	The minimum distances from the front to combustible material	1700
d _F	mm	The minimum distances from the front to combustible material in bottom front radiation area	1200
d _L	mm	The minimum distances from the front to combustible material in side front radiation area	900
d _B	mm	The minimum distances below the bottom (not regarding feet) to combustible material	0
d _{non}	mm	The minimum distances to non-combustible walls	200
	-	Read and follow the user manual!	

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

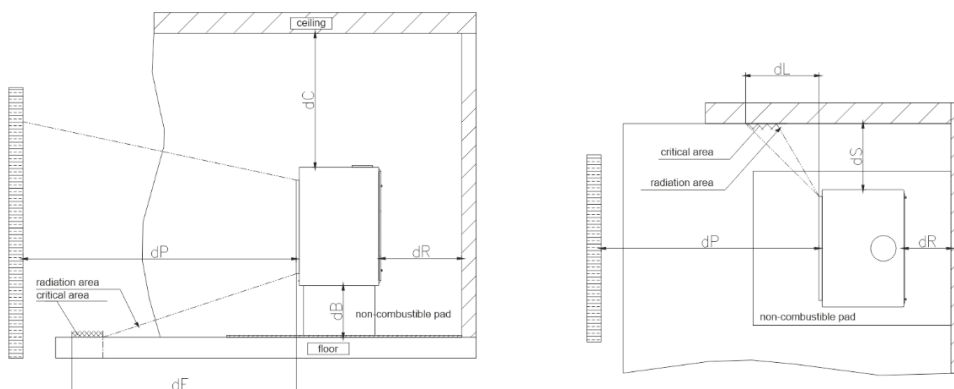


Fig.2.

Appliance operation.



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

The niche 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 fireproof 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:

- Primary and secondary air are controlled by handle (Fig 1, Pos. 4). Closed is position "0", and open at maximum at the opposite side
- Working positions of the regulators:



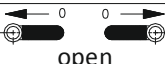
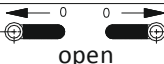
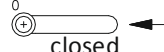
Regulator \ Process	Process	
	Lighting	Burning
Secondary	 open	 open
Primary	 open	 closed

Table.2.

- Primary air and the combustion rate is adjusted by regulator (Fig. 1, Pos. 6). During initial ignition the regulator have to be in open position and after the fire is stable the regulator must be closed (Table 2).
- Secondary air is used for complete burning of the fuel and helps to prevent accumulating of dust on the glass. Secondary air is adjusted by regulator (Fig.1, Pos.13). Position of the regulator must be open in accordance with Table 2.

Fuel quantity and reloading interval

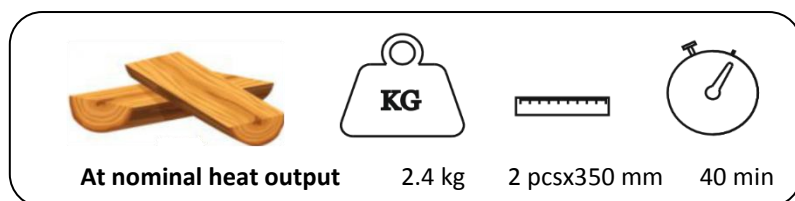


Fig.4.



Fig.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

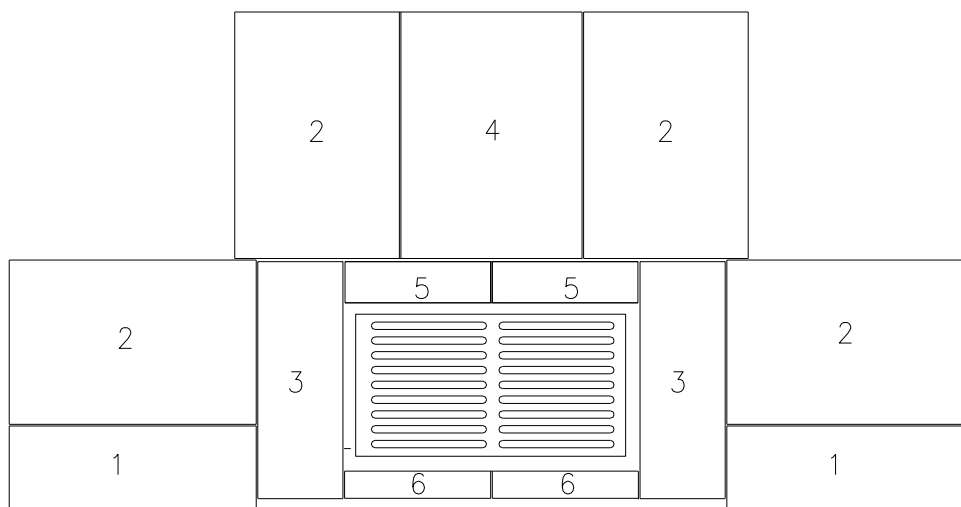


Fig.6

N	Designation	Dimensions / number	Material	Quantity
1	Brick	30 x 108 x 300	Schamotte	2
2	Brick	30 x 200x 300	Schamotte	4
3	Brick	30 x 110 x 288	Schamotte	2
4	Brick	30 x 220 x 300	Schamotte	1
5	Brick	30 x 57 x 170	Schamotte	2
6	Brick side I	30 x 40 x 170	Schamotte	2
7	Grate (180x210)	402.00.00.09	Cast iron	1
8	Ceramic glass	4 x 315 x 480		1
9	Handle			1
10	Door sealing	Rope ϕ 12		1
11	Glass sealing	Flat rope 10 x 2		1

Табл.3.