TECHNICAL DATA SHEET
№ 10-16-2

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Freestanding roomheater for intermittent burning with firedoors closed

Designation:	**VERONA, VERONA K, VERONA S**
Types of appliance:	Type B (БДС EN 16510-1:2023)
Fuel type:	Dry cleaved wood logs humidity level 25%
Heating volume:	135 м^3

Technical data and parts of the stove.

Verona, Verona K (ceramic side plate)
Verona S (serpentino side plate)

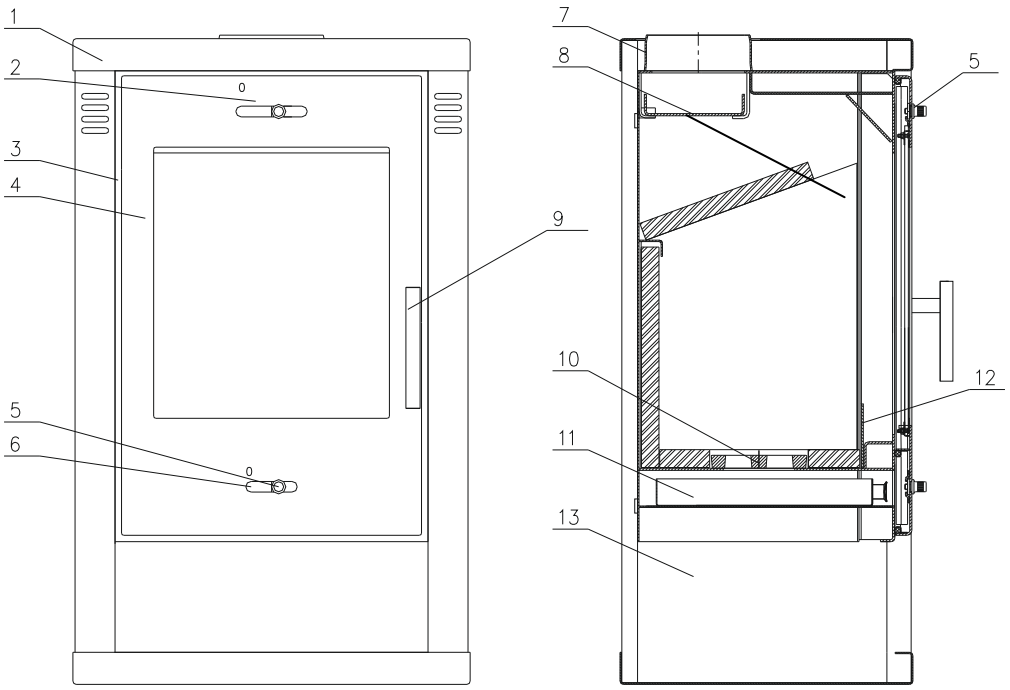


Fig.1.

1.Body; 2. Secondary air regulator 3. Combustion chamber; 4.Fire door; 5.Small handle (for regulator); 6.Primary air regulator; 7.Flue outlet; 8.Brick set (Fig.3); 9. Handle; 10.Grate; 11.Ashtray; 12 . Safety bar; 13.Metal side plate .

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 VERONA, VERONA K, VERONA S

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

Table.1.

Parameters at 13% O2	Unit	Explanation	Value for wood logs
P_{SHnom}	kW	The nominal space heat output or a range of outputs (dependent on fuel types)	7.5
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	108
CO_{nom}	mg/m^3	CO emission at 13 % oxygen content at nominal heat output	≤ 1500
NOx_{nom}	mg/m^3	NOx 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	222
T_{class}	-	Chimney designation according to the appropriate chimney standard	T400G
$\Phi_{f,g\ nom}$	g/s	The flue gas mass flow at nominal heat output	7.5
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)	56 / 91 / 47
m	kg	Mass of the appliance	90
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	400
d_S	mm	The minimum distances from the sides to combustible material	450
d_C	mm	The minimum distances from the top to combustible material in the ceiling	800
d_P	mm	The minimum distances from the front to combustible material	1300
d_F	mm	The minimum distances from the front to combustible material in bottom front radiation area	600
d_L	mm	The minimum distances from the front to combustible material in side front radiation area	800
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:

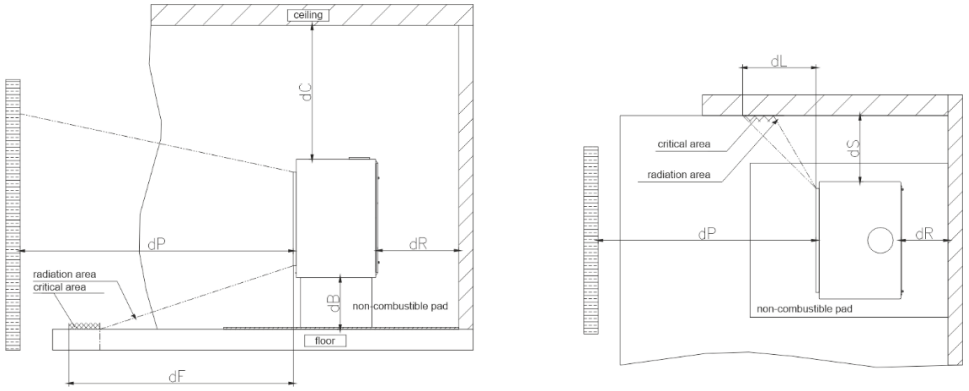


Fig.2.

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 ø 150 mm or with a cross-section area of at least 200 cm^2. 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. 5). Closed is position "0", and open at maximum at the opposite side
- Working positions of the regulators:



Process / Regulator	Lighting	Burning
Secondary	0 open	0 open
Primary	0 open	0 closed

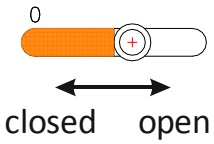


Table. 2.

- 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.2). Position of the regulator must be open in accordance with Table 2.

Fuel quantity and reloading interval

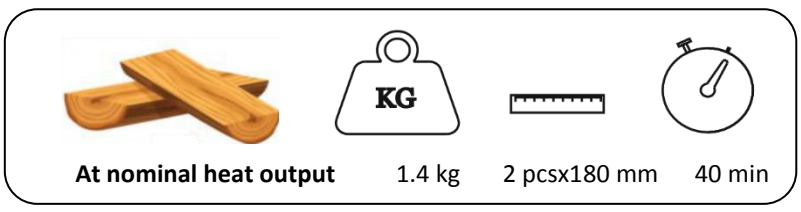


Fig.4.



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 refractory bricks.

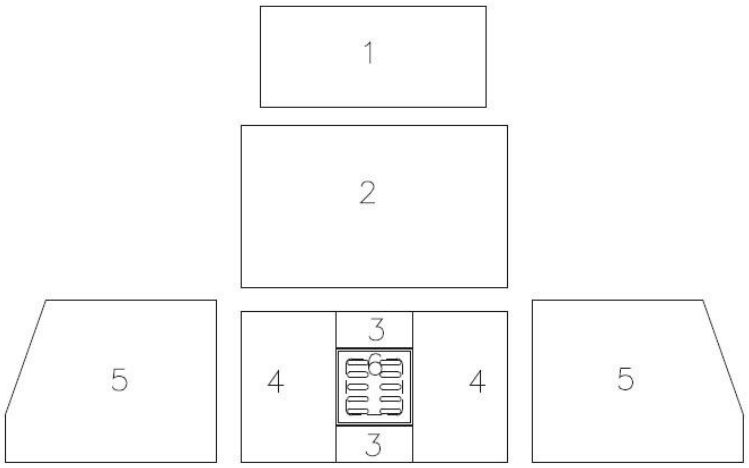


Fig.3

N	Designation	Dimensions / number	Material	Quantity
1	Brick	25 x 250 x 425	Vermiculite	1
2	Brick	25 x 310 x 374	Vermiculite	1
3	Brick	30x70x140	Schamotte	2
4	Brick	30x120x280	Schamotte	2
5	Brick side	110.00.00.29	Vermiculite	2
6	Grate (135x135)	715.00.00.38	Cast iron	1
7	Ceramic glass	4x310x390		1
8	Handle			1
9	Door sealing	Rope ϕ12		1
10	Glass sealing	Flat rope 10 x 2		1

Табл.3.