



TECHNICAL SHEET of the fireplace stove **Bergamo**

Suitable fuel:

As concerns suitable fuel to be employed, see the chapter **2.2 Fuel** in the General Manual of Operation.

Proper operation:

As concerns the proper and safe operation of the fireplace stove, see the chapters **2. Description of the combustion process** and **5. Operating instructions** in the General Manual of Operation.

An exchanger can be added additionally.

Ordering number of the shaped block	Dimension	Ordering number of the shaped block	Dimension
158	370x120x30		
175	370x220x30		
213	435x235x30		
219	435x235x30		

INSTRUCTIONS FOR THE CONTROL OF COMBUSTION PROCESS:

Fuel	Output of the heating device		Output of the heating device		Output of the heating device		Output of the heating device	
	100%	33%	100%	33%	100%	33%	100%	33%
	Amount of fuel		Primary air		Secondary air		Tertiary air	
Blockwood	3,5 kg/h	1,2 kg/h	shut	shut	open 100%	open 80%	open 100%	open 100%
Ecological briquettes	3,5 kg/h	1,2 kg/h	shut	shut	open 100%	open 80%	open 100%	open 100%
Coal briquettes	2,4 kg/h	0,8 kg/h	open 70%	open 50%	open 10%	open 10%	open 100%	open 100%

TECHNICAL DESCRIPTION:

Position	Name	Position	Name	Position	Name
1	Stove body	11	Controller of secondary air	21	Spring of door shutting
2	Fire-box door	12	Intake of secondary air	22	Side cover
3	Oven	13	Intake of tertiary air	23	Cover of the oven
4	Fuel bunker	14	Lever lock of the fire-box door	24	Upper cover
5	Fire-clay lining	15	Refractory glass	25	Lid
6	Smoke flue neck	16	Blinding element with shutter	26	Rear cover
7	Ash pan	17	Lower lip - loose		
8	Protection	18	Middle lip - fixed		
9	Cast-iron grate	19	Upper lip - fixed	Sealing cord of the door 10 mm	
10	Controller of primary air	20	Holder of the fire-clay	Sealing cord of the glass and of the blind flange 10x4 mm	

TECHNICAL DATA:

	Wood	Ecological briquettes	Coal briquettes		
Achieved heat output (100%)	12,1 kW	11,8 kW	11,9 kW	Height	1095 mm
Nominal heat output	12 kW	12 kW	12 kW	Width	660 mm
Reduced heat output (33%)	4 kW	3,9 kW	3,9 kW	Depth	589 mm
Maximum stoking amount of the fuel	3,5 kg/h	3,5 kg/h	2,4 kg/h	Diameter of the smoke flue	150 mm
Average temperature of combustion products behind the smoke flue neck	380 °C	375 °C	345 °C	Weight	133 kg
Maximum mass flow of dry combustion products	11,4 g/s	12,1 g/s	11,8 g/s	Min. chimney stack draught in the smoke flue neck	12 Pa
Energy efficiency	76 %	74,8 %	74 %	Heating capacity (middle heat losses) at 12,1 kW	cca. 220 m ³
Average concentration of CO ₂	9,4	8,8	8,6	Range of outputs	3,9 - 12,1 kW
Concentration of CO in combustion products at 13% O ₂	0,04	0,1	0,18		

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**DIMENSIONED DIAGRAM OF THE FIREPLACE STOVE WITH INSTALLATION OF
KNEE-PIECE FOR EXHAUST OF COMBUSTION PRODUCTS, DELIVERED AS
OPTIONAL ACCESSORY**

