



TECHNICAL SHEET of the fireplace stove **Grand Max with exchanger**

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.

The heat exchanger can be removed and substituted with a blind flange.

Ordering number of the shaped block	Dimension	Ordering number of the shaped block	Dimension
126	420x166x30	179	260x135x30
158	370x120x30	180	230x65x30
176	400x220x30		
178	290x100x30		

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	4 kg/h	1,3 kg/h	open 100%	open 33%	open 100%	open 33%	non-controllable	
Ecological briquettes	3,9 kg/h	1,3 kg/h	open 100%	open 33%	open 100%	open 33%	non-controllable	
Coal briquettes	2,6 kg/h	0,9 kg/h	open 100%	open 33%	open 100%	open 33%	non-controllable	

TECHNICAL DESCRIPTION:

Position	Name	Position	Name	Position	Name
1	Stove body	10	Controller of primary air	19	Firing chamber insulation
2	Fire-box door	11	Controller of secondary air	20	Decorative arch
3	Oven	12	Intake of tertiary air	21	Spring holder of the lining
4	Fuel bunker	13	Intake of secondary air	22	Lining of the shell
5	Fire-clay lining	14	Lever lock of the fire-box door	23	Lining of the oven
6	Smoke flue neck	15	Refractory glass	24	Outlet of heating water 1"
7	Ash pan	16	Heat exchanger	25	Intake of return water 1"
8	Protection	17	Upper lip - fixed	Sealing cord of the door 10 mm	
9	Cast-iron grate	18	Holder of the fire-clay	Sealing cord of the glass and of the exchanger 10x4 mm	

TECHNICAL DATA:

	Wood	Ecological briquettes	Coal briquettes		
Achieved heat output (100%)	13,7 kW	13 kW	13,1 kW	Height	1231 mm
Reduced heat output (33%)	4,5 kW	4,3 kW	4,3 kW	Width	646 mm
Output delivered by the stove body only	6,4 kW	6,7 kW	7,2 kW	Depth	472 mm
Output available for heating of water	7,3 kW	6,3 kW	5,9 kW	Weight	202 kg
Maximum stoking amount of the fuel	4 kg/h	3,9 kg/h	2,6 kg/h	Diameter of the smoke flue	150 mm
Average temperature of combustion products behind the smoke flue neck	262 °C	241 °C	255 °C	Maximum operating over-pressure of the exchanger	0,3 MPa
Maximum mass flow of dry combustion products	9,6 g/s	10 g/s	13,1 g/s	Water contents of the exchanger and exchanger pressure loss	14,3 l (22 Pa)
Energy efficiency	80 %	76 %	76,3 %	Recommended heat gradient (t output - t input)	75 - 60 °C
Average concentration of CO ₂	11,4	11,4	8,1	Min. chimney stack draught in the smoke flue neck	12 Pa
Concentration of CO in combustion products	0,4	0,5	0,15	Heating capacity (middle heat losses) at 13,7 kW	cca. 250 m ³
				Controllable output	4,3 - 13,7 kW
Tested in compliance with EN 13 240:2001/A2:2004 and ČSN 06 1008:1997				Maximum temperature of output water	80 °C

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

