



TECHNICAL SHEET  
of the fireplace stove  
**Mantova 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.

**INSTRUCTIONS FOR THE CONTROL OF COMBUSTION PROCESS:**

Fuel	Output of the heating device							
	100%		33%		100%		33%	
	Amount of fuel		Primary air		Secondary air		Tertiary air	
Blockwood	2,9 kg/h	1 kg/h	open 75%	open 30%	open 40%	open 15%	non-controllable	
Ecological briquettes	2,7 kg/h	0,9 kg/h	open 100%	open 50%	open 30%	open 10%	non-controllable	
Coal briquettes	2,2 kg/h	0,7 kg/h	open 50%	open 20%	open 50%	open 20%	non-controllable	

TECHNICAL DATA:	Blockwood	Ecological briquettes	Coal briquettes		
Achieved heat output (100%)	10,4 kW	10,1 kW	10,2 kW	Height	962 mm
Reduced heat output (33%)	3,4 kW	3,3 kW	3,4 kW	Width	506 mm
Output delivered by the stove body only	2,7 kW	2,9 kW	4,2 kW	Depth	539 mm
Output available for heating of water	7,7 kW	7,2 kW	6 kW	Weight - Metal sheet/Panelling	128 kg/134 kg
Maximum stoking amount of the fuel	2,9 kg/h	2,7 kg/h	2,2 kg/h	Diameter of the smoke flue	150 mm
Average temperature of combustion products behind the smoke flue neck	265 °C	249 °C	221 °C	Maximum operating over-pressure of the exchanger	0,2 MPa
Maximum mass flow of dry combustion products	6,9 g/s	10,8 g/s	8,4 g/s	Water contents of the exchanger	14 l
Energy efficiency	83 %	80 %	85 %	Recommended heat gradient (t output – t input)	75 - 60 °C
Average concentration of CO <sub>2</sub>	11,9 %	7,8 %	9,37 %	Min. chimney stack draught in the smoke flue neck	12 Pa
Concentration of CO in combustion products at 13%O <sub>2</sub>	0,33 %	0,11 %	0,17 %	Heating capacity (middle heat losses) at 10,4 kW	cca. 187 m <sup>3</sup>
The amount of combustion air at nominal output	25 m <sup>3</sup> /h	32 m <sup>3</sup> /h	23 m <sup>3</sup> /h	Controllable output	3,3 – 10,4 kW
Tested in compliance with EN 13 240:2002/A2:2005			CE	Maximum temperature of output water	80 °C

