

PARAMETERS OF AUTOMATIC BOILERS VERNER	A251G, A251GLS				A501G, A501GLS			
boiler body material	boiler plate cl. 11				boiler plate cl. 11			
specified fuel	corn		pellets		corn		pellets	
	corn (barley, oat, rye, tritical, wheat)	maize	alternative pellets (Ø 6 - 14 mm)	wooden pellets (Ø 6 - 14 mm)	corn (barley, oat, rye, tritical, wheat)	maize	alternative pellets (Ø 6 - 14 mm)	wooden pellets (Ø 6 - 14 mm)
rated capacity	25 kW	25 kW	25 kW	25 kW (max. 30 kW)	48 kW	48 kW	48 kW	48 kW (max. 53 kW)
efficiency *	91,0% *	91,0% *	91,0% *	91,0%	92,7% *	91,3% *	91,0% *	92,7%
average fuel consumption (at rated capacity)	6,5 - 7,5 kg / h	6,2 kg / h	6,8 kg / h	5,6 kg / h	12,0 - 14,0 kg / h	12,0 kg / h	13,0 kg / h	10,5 kg / h
adjustability by continuous operation	7,5 - 25 kW	7,5 - 25 kW	7,5 - 25 kW	7,5 - 30 kW	15 - 48 kW	15 - 48 kW	15 - 48 kW	15 - 53 kW
adjustability electronically controlled by outstanding mode	0 - 7,5 kW	0 - 7,5 kW	0 - 7,5 kW	0 - 7,5 kW	0 - 15 kW	0 - 15 kW	0 - 15 kW	0 - 15 kW
burning time of standard feeding hopper (at rated capacity)	18 - 24 h	28 h	16 - 28 h	30 h	9 - 12 h	14 h	8 - 14 h	15 h
burning time of standard feeding hopper (normal operation)	2 - 3,5 days	5 days	2 - 5 days	5,5 days	1 - 2 days	2,5 days	1 - 2,5 days	3 days
standard feeding hopper volume	240 l				240 l			
standard ashbin capacity	20 l				20 l			
boiler height	1430 mm				1430 mm			
boiler width	670 mm				670 mm			
boiler depth	1460 mm				1630 mm			
total weight	575 kg				650 kg			
minimum transport body weight	400 kg				450 kg			
specified operation chimney draught	15 - 30 Pa				15 - 30 Pa			
outlet combustion gas throat diameter	160 mm				160 mm			
minimum chimney cut	200 cm <sup>2</sup>				200 cm <sup>2</sup>			
minimum recommended chimney height **	5 m				10 m			
combustion gas temperature at outlet (at rated capacity)	160 °C				160 °C			
combustion gas temperature at outlet (at half capacity)	100 °C				100 °C			
combustion gas mass flow rate (at rated capacity)	0,016 kg/s				0,032 kg/s			
water tank capacity	85 l				95 l			
connecting sleeves (internal thread)	G 5/4"				G 2"			
adjustment range of outlet water temperature	65 - 90 °C				65 - 90 °C			
minimum water return temperature at running	60 °C				60 °C			
maximum operation overpressure	3 bar (0,3 MPa)				3 bar (0,3 MPa)			
recooling loop	no - not necessary				no - not necessary			
turbulators	yes				yes			
lambda sensor	A251G - additional accessory; A251GLS - yes				A501G - additional accessory; A501GLS - yes			
efficiency class	3				3			
emission class of CO	3				3			
maximum electric input	1500 W				1500 W			
average input at operation	100 W				100 W			
incoming voltage	230 V / 50 Hz				230 V / 50 Hz			
maximum noise level	54 dB				54 dB			

\* depending on the fuel quality

\*\* it is orientation figure, minimum chimney height is influenced by the building position; the statement of the designer or chimneyer is decisive