

PARAMETERS OF LUMP WOOD BOILERS VERNER	G25D	GN25D	G25D LS	GN25D LS	G45GV	GN45	G45 LS	GN45 LS
boiler body material	boiler plate cl. 11	stainless sheet cl. 17	boiler plate cl. 11	stainless sheet cl. 17	boiler plate cl. 11	stainless sheet cl. 17	boiler plate cl. 11	stainless sheet cl. 17
guarantee period for boiler body	2 years	5 years	2 years	5 years	2 years	5 years	2 years	5 years
specified fuel *	lump wood - lenght 50 cm, Ø up to 10 cm, individual pieces up to Ø 20 cm, wooden briquettes, wood chips, chips (fuel up to 20% of the moisture)	lump wood - lenght 50 cm, Ø up to 10 cm, individual pieces up to Ø 20 cm, wooden briquettes, wood chips, chips (fuel up to 20% of the moisture)	lump wood - lenght 50 cm, Ø up to 10 cm, individual pieces up to Ø 20 cm, wooden briquettes, wood chips, chips (fuel up to 20% of the moisture)	lump wood - lenght 50 cm, Ø up to 10 cm, individual pieces up to Ø 20 cm, wooden briquettes, wood chips, chips (fuel up to 20% of the moisture)	lump wood - lenght 50 cm, Ø up to 10 cm, individual pieces up to Ø 20 cm, wooden briquettes, wood chips, chips (fuel up to 20% of the moisture)	lump wood - lenght 50 cm, Ø up to 10 cm, individual pieces up to Ø 20 cm, wooden briquettes, wood chips, chips (fuel up to 20% of the moisture)	lump wood - lenght 50 cm, Ø up to 10 cm, individual pieces up to Ø 20 cm, wooden briquettes, wood chips, chips (fuel up to 20% of the moisture)	lump wood - lenght 50 cm, Ø up to 10 cm, individual pieces up to Ø 20 cm, wooden briquettes, wood chips, chips (fuel up to 20% of the moisture)
rated capacity	25 kW	25 kW	25 kW	25 kW	45 kW	45 kW	41 kW	41 kW
efficiency	94%	94%	94%	94%	91%	91%	91%	91%
ordinary fuel consumption for one heating season **	28 m3	28 m3	24 m3	24 m3	48 m3	48 m3	41 m3	41 m3
average fuel consumption (at rated capacity)	7,5 kg / h	7,5 kg / h	7,2 kg / h	7,2 kg / h	13,5 kg / h	13,5 kg / h	12,5 kg / h	12,5 kg / h
adjustability by continuos operation	12,5 - 25 kW	12,5 - 25 kW	12,5 - 25 kW	12,5 - 25 kW	22 - 45 kW	22 - 45 kW	22 - 42 kW	22 - 42 kW
adjustability electronically controlled by outstanding mode ***	0 - 12,5 kW	0 - 12,5 kW	0 - 12,5 kW	0 - 12,5 kW	0 - 22 kW	0 - 22 kW	0 - 22 kW	0 - 22 kW
burning time of full standard feeding hopper (at rated capacity)	4,5 hours	4,5 hours	4,8 hours	4,8 hours	4,5 hours	4,5 hours	5,5 hours	5,5 hours
feeding chamber capacity	125 l	125 l	125 l	125 l	180 l	180 l	180 l	180 l
boiler height	1195 mm	1195 mm	1195 mm	1195 mm	1540 mm	1540 mm	1540 mm	1540 mm
boiler width	648 mm	648 mm	648 mm	648 mm	648 mm	648 mm	648 mm	648 mm
boiler depth	1100 mm	1100 mm	1100 mm	1100 mm	1100 mm	1100 mm	1100 mm	1100 mm
total weight	445 kg	430 kg	450 kg	435 kg	630 kg	570 kg	630 kg	570 kg
rated running chimney draught	15 - 35 Pa	15 - 35 Pa	15 - 35 Pa	15 - 35 Pa	15 - 35 Pa	15 - 35 Pa	15 - 35 Pa	15 - 35 Pa
outlet combustion gas throat diameter	160 mm	160 mm	160 mm	160 mm	160 mm	160 mm	160 mm	160 mm
minimum chimney cut	200 cm2	200 cm2	200 cm2	200 cm2	200 cm2	200 cm2	200 cm2	200 cm2
minimum recommended chimney height ****	7 m	7 m	7 m	7 m	8 m	8 m	8 m	8 m
combustion gas temperature at outlet (at rated capacity) *****	140 - 220 °C	140 - 220 °C	140 - 170 °C	140 - 170 °C	180 - 260 °C	180 - 260 °C	150 - 190 °C	150 - 190 °C
combustion gas temperature at outlet (at half capacity) *****	120 °C	120 °C	110 °C	110 °C	150 °C	150 °C	130 °C	130 °C
combustion gas mass flow rate (at rated capacity)	0,017 kg/s	0,017 kg/s	0,017 kg/s	0,017 kg/s	0,030 kg/s	0,030 kg/s	0,030 kg/s	0,030 kg/s
water tank capacity	70 l	70 l	70 l	70 l	92 l	92 l	92 l	92 l
connecting sleeves (internal thread)	G 2"	G 2"	G 2"	G 2"	G 2"	G 2"	G 2"	G 2"
adjustment range of outlet water temperature	70 - 90 °C	70 - 90 °C	70 - 90 °C	70 - 90 °C	70 - 90 °C	70 - 90 °C	70 - 90 °C	70 - 90 °C
minimum water return temperature at running	60 °C	60 °C	60 °C	60 °C	60 °C	60 °C	60 °C	60 °C
maximum operation overpressure	3 bar (0,3 MPa)	3 bar (0,3 MPa)	3 bar (0,3 MPa)	3 bar (0,3 MPa)	3 bar (0,3 MPa)	3 bar (0,3 MPa)	3 bar (0,3 MPa)	3 bar (0,3 MPa)
recooling loop	yes	yes	yes	yes	yes	yes	yes	yes
sensor of chimney temperature	yes	yes	yes	yes	yes	yes	yes	yes
efficiency class	3	3	3	3	3	3	3	3
emission class of CO	3	3	3	3	3	3	3	3
average electric input at operation	35 W	35 W	55 W	55 W	40 W	40 W	60 W	60 W
incoming voltage	230V / 50 Hz	230V / 50 Hz	230V / 50 Hz	230V / 50 Hz	230V / 50 Hz	230V / 50 Hz	230V / 50 Hz	230V / 50 Hz
maximum noise level	54 dB	54 dB	54 dB	54 dB	54 dB	54 dB	54 dB	54 dB

* it is possible to feed the boiler by logs of Ø 10 - 20 cm, wood chips or sawdust on already burning basic layer

** mentioned data represent stacked volume of wood; the calculation of wood consumption according to <http://www.tzb-info.cz/t.py?t=16&i=269> by heat demand of average big house (80 GJ / year) and of the house (140 GJ / year)

*** at outstanding the boiler output doesn't go down to 0 immediately, but depending on heating mode

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

***** if the boiler is equipped with the sensor of chimney temperature, the upper limit of combustion gas temperature can be set up or adjusted at outlet