

BOILER TECHNICAL DATA SHEET:

BLAZE HARMONY LAMBDA

Table 1. Basic parameters of the BLAZE HARMONY LAMBDA boiler

Boiler type		BH12 LAMBDA	BH18 LAMBDA	BH25 LAMBDA	BH33 LAMBDA
Maximum heat loss of the heated building (where the boiler is the sole source of heat)	kW	12 - 20	15 - 27	25 - 40	25 - 40
		depending on fuel type and other circumstances (see Operating and Installation Instructions)			
Storage tank required		YES			
Minimum – maximum recommended storage tank volume	l	700 - 1500	1000 - 2000	1500 - 3000	1500 - 3000
		depending on fuel type and other circumstances (see Operating and Installation Instructions)			
Nominal output (during continuous operation)	kW	15.5	20	25	31
		(with correct settings and guaranteed fuel)			
Wood consumption at rated output	kg.h ⁻¹	4.3	5.5	6.2	7.6
Burning time of a full load of wood					
- at nominal output during certification	h	2	2	2	2
- during normal boiler operation	h	2 – 6	2 – 6	3 – 6	2 – 6
Boiler class according to EN 303-5		5			
Ecodesign		Yes			
Energy efficiency class		A+			
Efficiency at rated power	%	89.5	89.5	89.6	89.6
Seasonal energy efficiency	%	77	77	78	78
Power consumption at rated output	W	43	49	60	67
Power consumption in standby mode	W	3	3	3	3
Maximum electrical power consumption	W	75	75	75	75
Minimum chimney draught	mbar	0.10			
CO ₂ content at rated output	%	12.41	11.82	11.23	10.65
Flue gas temperature at rated output ¹⁾	°C	135	135	135	145
Minimum return water temperature					
- without integrated thermostat	°C	50			
- with integrated thermostat	°C	20			
Mass flow rate of flue gases at the outlet at rated output	kg.s ⁻¹	0.011	0.015	0.019	0.023
Flue diameter	mm	15			
Firing chamber volume	dm ³	70	100	150	150
Boiler dimensions	mm	see images below			
Feeding opening dimensions	mm	365 x 250		548 x 250	
Boiler connections: - heating water	Js	G 6/4"			
- return water	Js	G 6/4"			
Connection voltage		1 PEN ~230V / 0.5A / 50 Hz			
Environment		basic AA5 / AB5			
Electrical protection		IP 20			
Maximum permissible operating pressure	bar	3.0			
Test pressure for type testing	bar	6.0			
Outlet water temperature control range	°C	70 - 95			
Maximum permissible operating temperature	°C	95			
Hydraulic loss of the boiler at Δ T = 20 K	mbar	0.2	0.3	0.5	0.8

Maximum noise level	dB	55			
Water capacity	dm ³	45	50	60	60
Weight	kg	350	400	550	550

¹⁾ applies to a clean exchanger (with normal clogging, the flue gas temperature is approx. 10 to 20 °C higher)

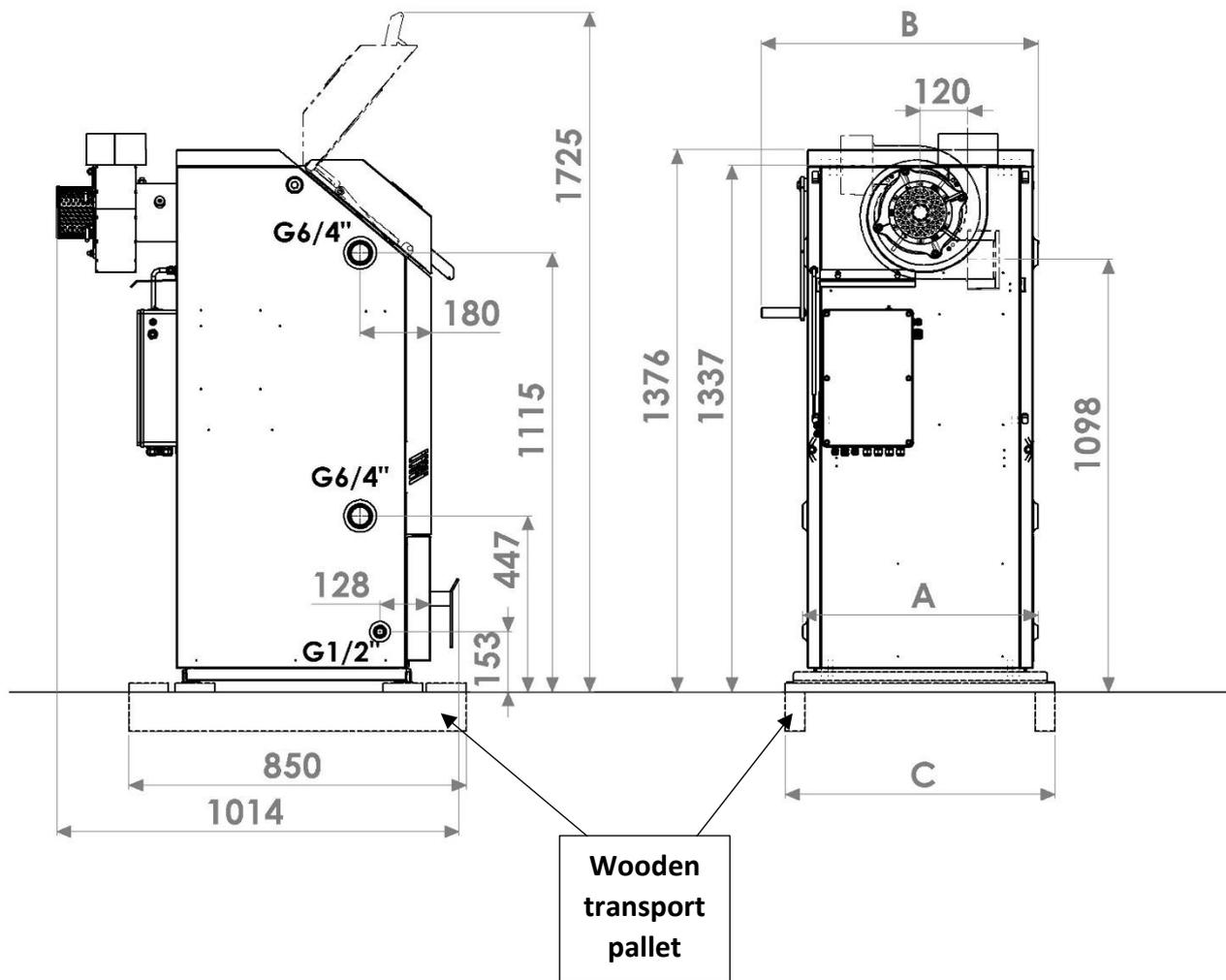
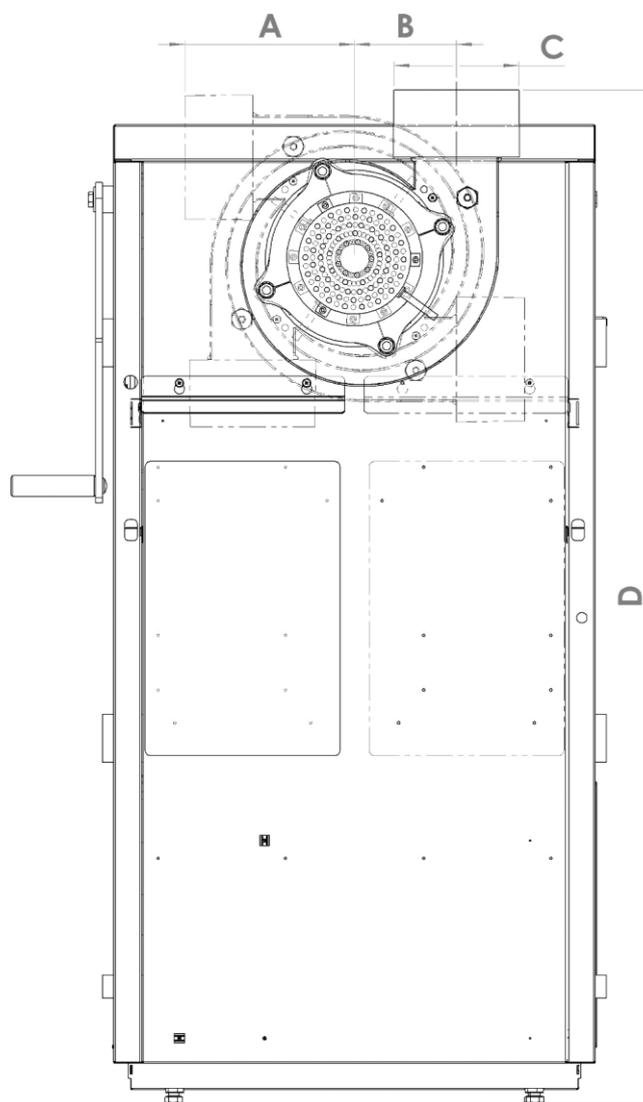


Table 2. Basic dimensions of the BLAZE HARMONY LAMBDA boiler

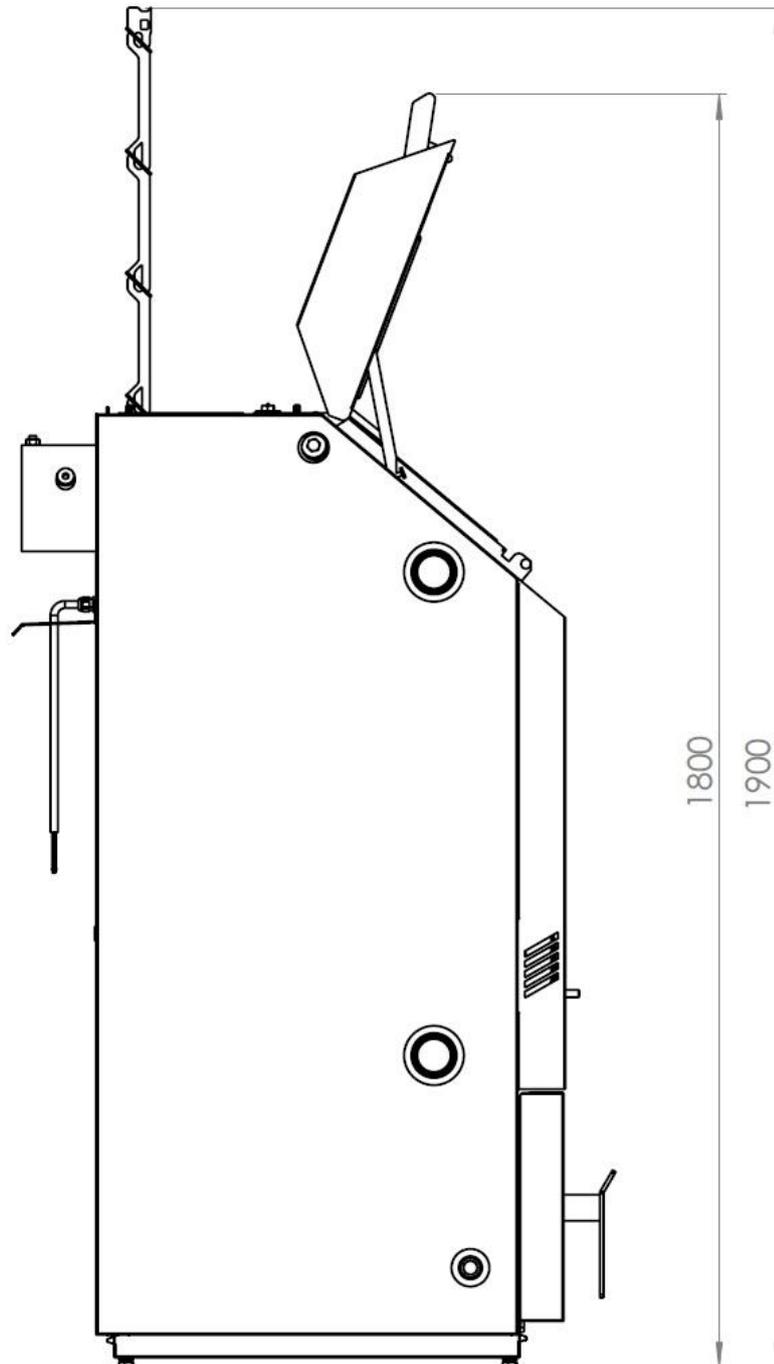
	BH12 LAMBDA	BH18 LAMBDA	BH25 LAMBDA	BH33 LAMBDA
A	595	595	780	780
B	698	698	882	882
C	680	680	870	870



Rear view of the boiler with dimensions

Table 3. Basic dimensions of the BLAZE HARMONY LAMBDA boiler

	BH12 LAMBDA	BH18 LAMBDA	BH25 LAMBDA	BH33 LAMBDA
A	200	200	200	200
B	120	120	120	120
C	ø149	ø149	ø149	ø149
D	1200	1400	1400	1400



Side view of the boiler with the upper door open

+ minimum dimension for removing turbulators from BH18, 25 and 33 LAMBDA boilers

(For the BH12 LAMBDA boiler, this dimension does not exceed the height of the boiler with the upper door open.)

Minimum dimensions for boiler placement in the boiler room

