

BOILER TECHNICAL DATA SHEET: BLAZE GREEN

Table 1. Basic parameters of the BLAZE GREEN boiler

Boiler type		BG10	BG18	BG26	BG33
Maximum heat loss of the heated building (where the boiler is the sole source of heat)	kW	8 - 14	14 - 24	21 - 36	21 - 36
		depending on fuel type and other circumstances (see Operating and Installation Instructions)			
Storage tank required		YES			
Minimum – maximum recommended storage tank volume	l	450 - 1000	750 - 2000	1200 - 3000	1200 - 3000
		depending on fuel type and other circumstances (see Operating and Installation Instructions)			
Nominal/minimum output (during continuous operation)	kW	10 / 5	18 / 9	26 / 13	32.5 / 16
		(with correct settings and guaranteed fuel)			
Fuel consumption at rated power	kg h ⁻¹	2.5	4.3	6.2	7.5
Burning time of full fuel load					
- at rated output during certification	h	4	2	2	3
- during normal boiler operation	h	4 - 8	2 - 6	2 - 6	3 - 6
Boiler class according to EN 303-5		5			
Ecodesign		Yes			
Energy efficiency class		A+			
Efficiency:					
- at rated power	%	93.0	91.5	92.2	93.3
- at minimum power	%	92.6	92.5	92.3	93.6
Seasonal energy efficiency	%	81	81	81	82
Electrical power consumption:					
- at rated power	W	49	46	54	61
- at minimum power	W	26	43	57	47
- in standby mode	W	3	3	3	3
Maximum power consumption	W	75	75	75	75
Minimum operating draught of the chimney	mbar	0.05			
CO ₂ content at rated output	%	12.34	10.11	12.75	13.45
CO ₂ content at minimum power	%	9.7	8.82	10.37	13.74
Flue gas temperature: ¹⁾					
- at rated output	°C	130	130	130	130
- at minimum output (50%)	°C	110	110	110	110
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	0.007	0.013	0.015	0.019
Mass flow rate of flue gas at the outlet at minimum output	kg . s ⁻¹	0.004	0.008	0.010	0.010
Flue diameter	mm	15			
Firing chamber volume	dm ³	40	80	120	120
Boiler dimensions: width x depth x height	mm	504 x 960 x 1175	584 x 1040 x 1175	768 x 1040 x 1175	768 x 1040 x 1175
Dimensions of the feeding opening	mm	276 x 276	356 x 356	540 x 356	540 x 356
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	1.42	1.65	1.19	1.51

Hydraulic loss of boiler at $\Delta T = 10 K$	mbar	5.82	6.14	4.75	5.74
Maximum noise level	dB	55			
Water capacity	dm ³	32	40	55	55
Weight	kg	245	330	440	440

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

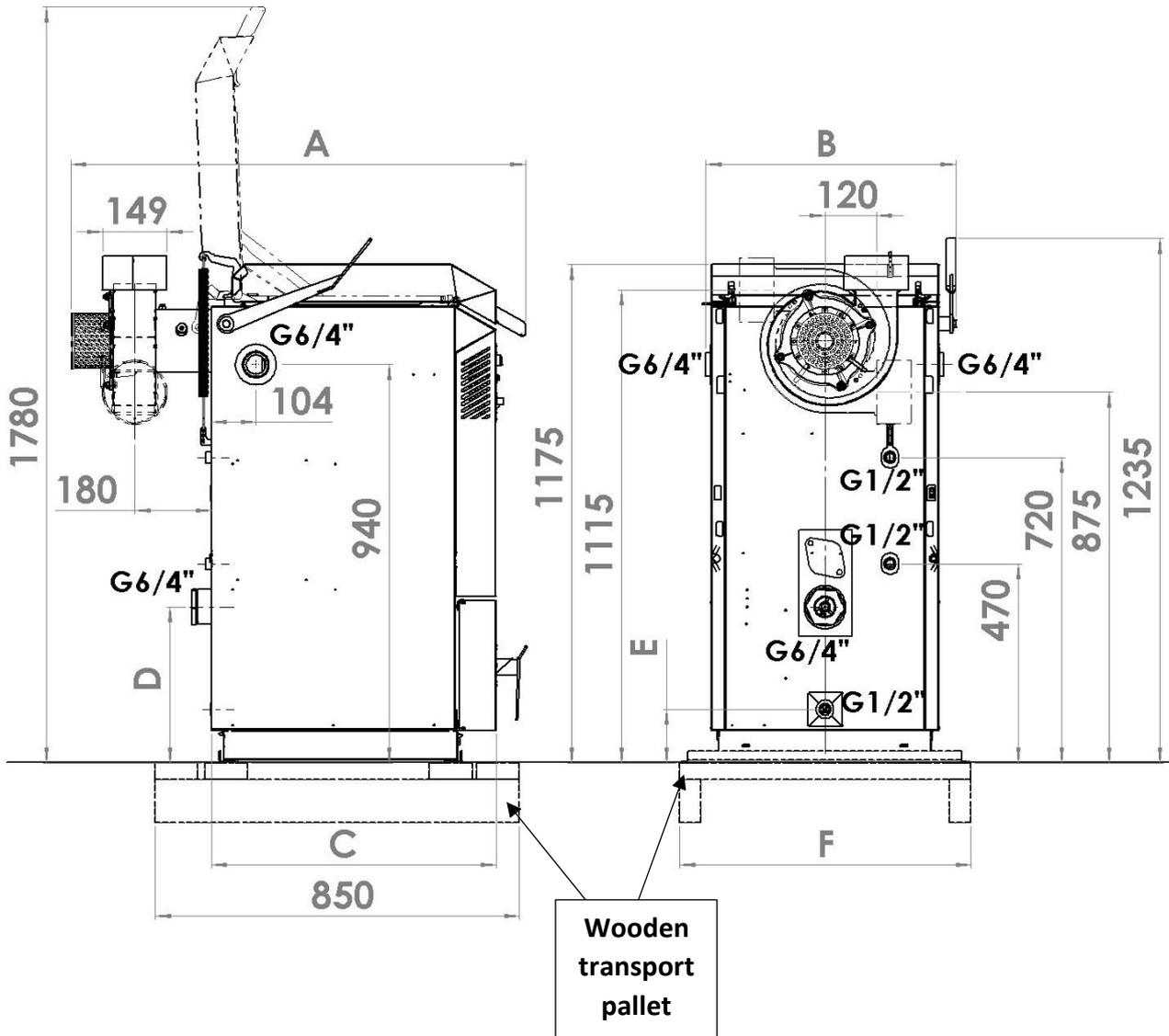


Table 2. Basic dimensions of the BLAZE GREEN boiler

	BG10	BG18	BG26	BG33
A [mm]	960	1040	1040	1040
B [mm]	504	584	768	768
C [mm]	594	664	664	664
D [mm]	275	370	370	370
E [mm]	95	130	130	130
F [mm]	680	680	870	870

Minimum dimensions for boiler placement in the boiler room

