

BOILER TECHNICAL DATA SHEET:

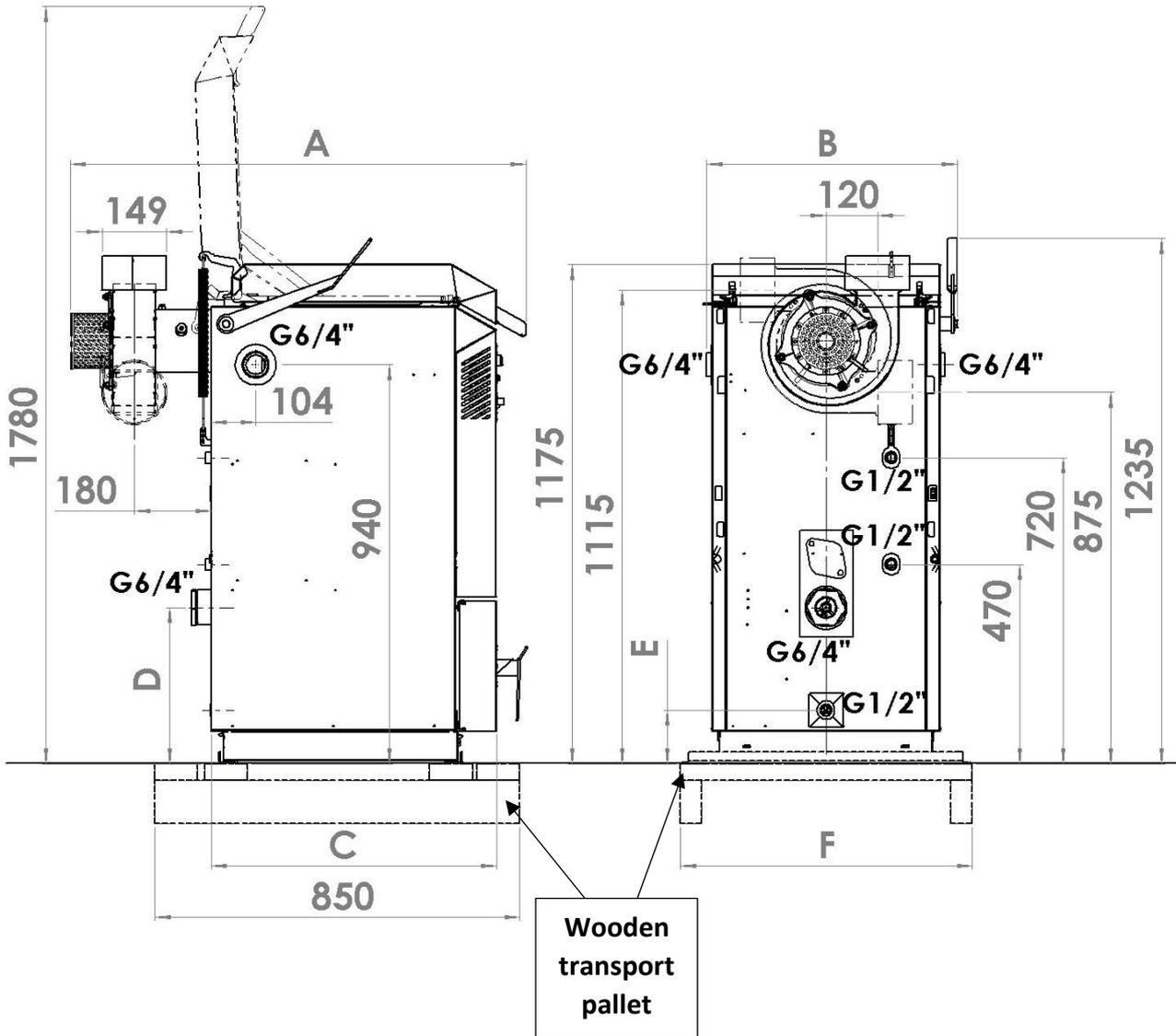
BLAZE GREEN COMBI

Table 1. Basic parameters of the BLAZE GREEN COMBI boiler

Boiler type		BGC18	BGC26	BGC33
Maximum heat loss of the heated building (where the boiler is the sole source of heat)	kW	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	750 - 2000	1200 - 3000	1200 - 3000
		depending on fuel type and other circumstances (see Operating and Installation Instructions)		
Nominal/minimum output (during continuous operation on wood)	kW	18 / 9	26 / 13	32.5 / 16
		(with correct settings and guaranteed fuel)		
Wood consumption at rated output	kg . h ⁻¹	4.3	6.2	7.5
Nominal output when operating on pellets	kW	15	20	20
Power controllability when operating on pellets	kW	4.2 – 15	5.8 – 20	5.8 – 20
Pellet consumption at rated output	kg . h ⁻¹	3	4.5	4.5
Burning time of full fuel load				
- at rated power during certification	h	2	2	3
- during normal boiler operation	h	2 – 6	2 – 6	3 – 6
Boiler class according to EN 303-5		5		
Ecodesign		Yes		
Energy efficiency class		A+		
Efficiency:				
- at nominal output wood / pellets	%	91.5 / 94.3	92.2 / 94.2	93.3 / 94.2
- at minimum output wood / pellets	%	92.5 / 92.8	92.3 / 93.1	93.6 / 93.1
Seasonal energy efficiency	%	81	81	82
Electrical power consumption:				
- at rated output wood/pellets	W	46 / 61	54 / 67	61 / 67
- at minimum output wood / pellets	W	43 / 37	57 / 45	47 / 45
- in standby mode	W	3	3	3
Maximum power consumption	W	380	380	380
Minimum operating chimney draught	mbar	0.05		
CO ₂ content at nominal output wood / pellets	%	10.11 / 11.95	12.75 / 12.59	13.45 / 12.59
CO ₂ content at minimum output wood / pellets	%	8.82 / 8.11	10.37 / 8.6	13.74 / 8.6
Flue gas temperature: ¹⁾				
- at rated output wood / pellets	°C	130 / 100	130 / 110	130 / 110
- at minimum output wood/pellets	°C	110 / 80	110 / 90	110 / 90
Minimum return water temperature:				
- without integrated thermostat	°C	50	50	50
- with integrated thermostat		20	20	20
Mass flow rate of flue gases at the outlet at rated output	kg . s ⁻¹	0.013	0.015	0.019
Mass flow rate of flue gas at the outlet at minimum output	kg . s ⁻¹	0.008	0.010	0.010
Flue diameter	mm	15		
Volume of the feeding chamber	dm ³	80	120	120
Boiler dimensions: width x depth x height	mm	1104 x 1254 x 1420	1288 x 1254 x 1420	1288 x 1254 x 1420
Feeding opening dimensions	mm	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 $\Delta T = 20\text{ K}$	mbar	1.65	1.19	1.51
	- at $\Delta T = 10\text{ K}$	mbar	6.14	4.75	5.74
Maximum noise level	dB	55			
Water capacity	dm ³	40	55	55	
Weight	kg	330	440	440	

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



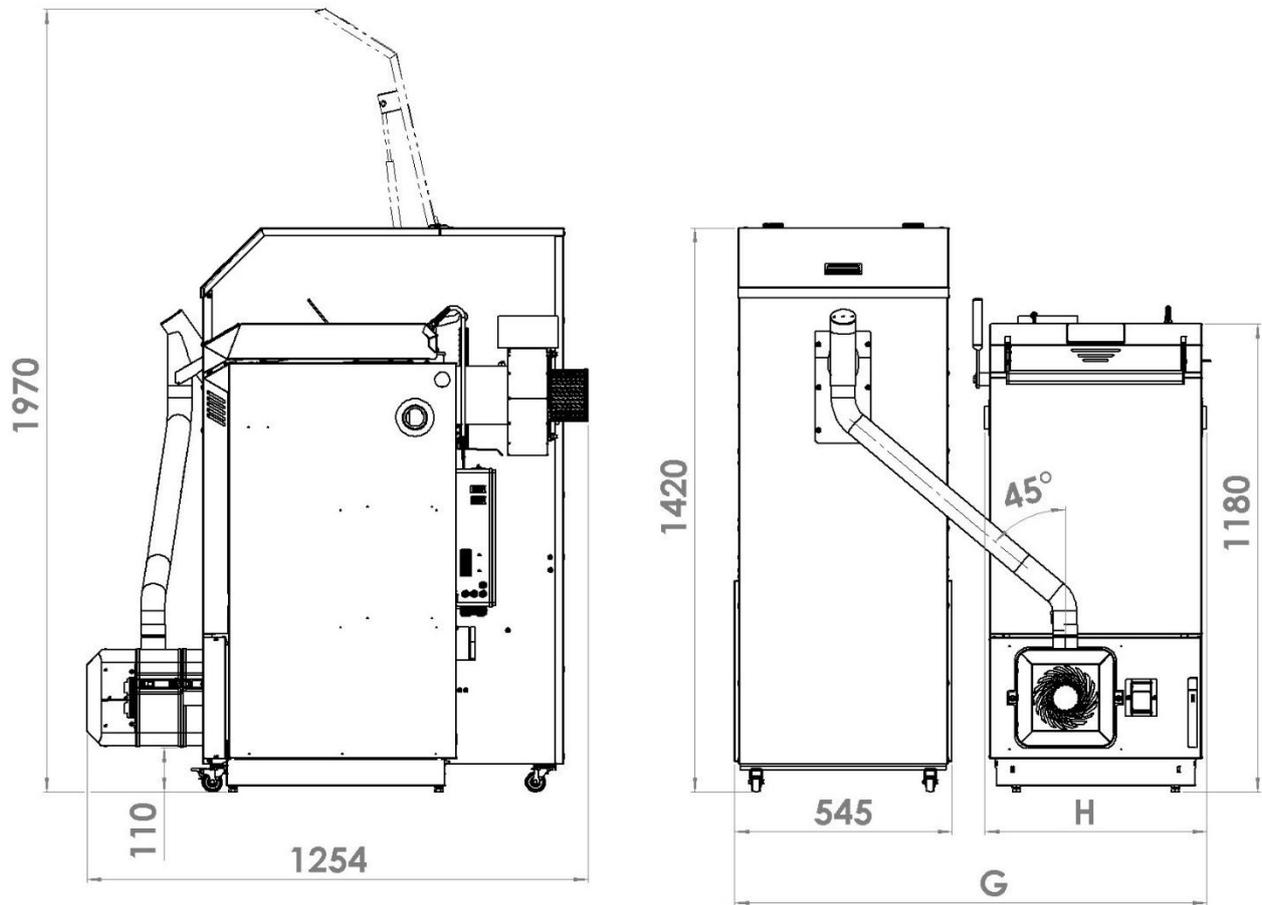


Table 2. Basic dimensions of the BLAZE GREEN COMBI boiler

	BGC18	BGC26	BGC33
A [mm]	1040	1040	1040
B [mm]	584	768	768
C [mm]	664	664	664
D [mm]	370	370	370
E [mm]	130	130	130
F [mm]	680	870	870
G [mm]	1104	1288	1288
H [mm]	530	714	714

Minimum dimensions for boiler placement in the boiler room

