BOILER TECHNICAL DATA SHEET: BLAZE PRAKTIK

Boiler type		**BP17**	**BP25**	**BP40**
Maximum heat loss of heated building (where the boiler is the sole source of heat)	kW	8 - 14	14 - 24	21 - 36
		depending on fuel type and other circumstances (see Operating and Installation Instructions)		
Storage tank required		**if the heated building has adequate heat storage properties (see Operating and Installation Instructions) NOT NECESSARY**		
Minimum heat loss of the heated building in an installation without a storage tank	kW	5 - 8	8 - 14	12 - 21
		depending on heat storage properties (defined in the operating and installation instructions)		
Minimum – maximum recommended storage tank volume	l	450 - 1000	750 - 2000	1200 - 3000
		depending on fuel type and other circumstances (see Operating and Installation Instructions)		
Nominal / minimum output (during continuous operation)	kW	17 / 5	25 / 7	40 / 12
		(with correct settings and guaranteed fuel)		
Fuel consumption at rated power	kg h^{-1}	4.0	6.2	9.4
Burning time of full fuel load				
- at rated output during certification	h	2	2	2
- during normal boiler operation	h	2 - 6	2 - 6	2 - 5
Boiler class according to EN 303-5		5		
Ecodesign		Yes		
Energy efficiency class		A+		
Efficiency:				
- at rated power	%	88.4	88.6	93.3
- at minimum power (30%)	%	92.5	91.5	94.5
Seasonal energy efficiency	%	80	78	82
Electrical power consumption:				
- at rated power	W	70	36	47
- at minimum power	W	26	18	25
- in standby mode	W	3	3	3
Maximum power consumption	W	75	65	75
Minimum operating chimney draught	mbar	0.05		
CO_2content at rated output	%	11.74	10.26	13.61
CO_2content at minimum power output	%	9.7	7.25	14.47
Flue gas temperature: [1]				
- at rated output	°C	160	160	160
- at minimum power (30%)	°C	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 nominal output	kg . s^{-1}	0.011	0.019	0.023
Mass flow rate of flue gas at the outlet at minimum output	kg . s^{-1}	0.004	0.008	0.007
Flue diameter	mm	150		
Volume of the stoking chamber	dm^3	40	80	120
Boiler dimensions: width x depth x height	mm	504 x 960 x 1175	584 x 1040 x 1175	768 x 1040 x 1175
Feeding opening dimensions	mm	276 x 276	356 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	1.51
Hydraulic loss of boiler at Δ T = 10 K	mbar	5.82	6.14	5.74
Maximum noise level	dB	55		
Water capacity	dm^3	32	40	55
Weight	kg	245	330	440

[1] Applies to a clean exchanger (with normal soiling, the flue gas temperature is approx. 10 to 20 °C higher)

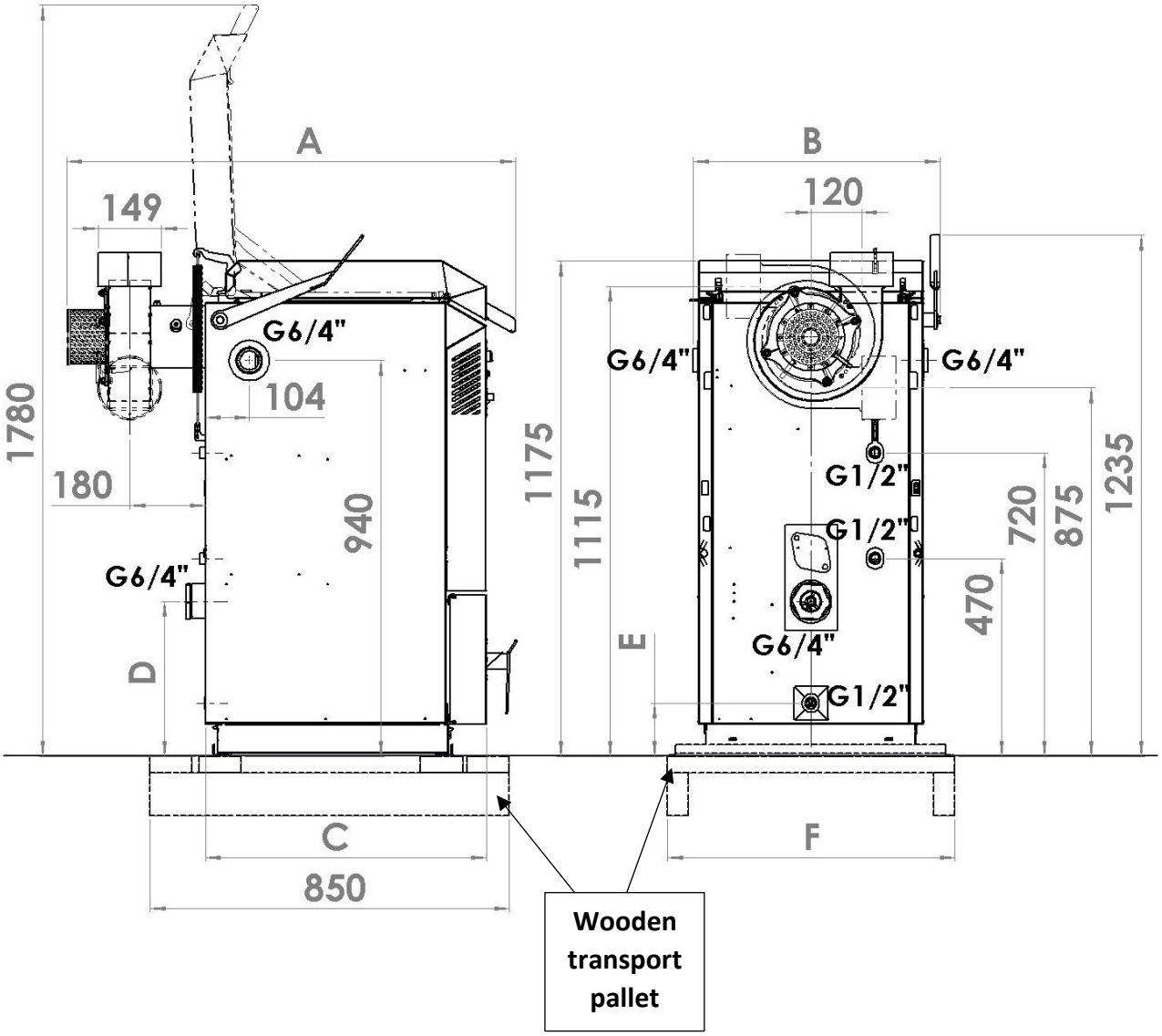

Table of basic dimensions of the BLAZE PRAKTIK boiler

	BP17	BP25	BP40
A [mm]	960	1040	1040
B [mm]	504	584	768
C [mm]	594	664	664
D [mm]	275	370	370
E [mm]	95	130	130
F [mm]	680	680	870

Minimum dimensions for boiler placement in the boiler room