

Model identifier	BOX 20 45									
Equivalent models	N/A									
Indirect heating function	No									
Direct heat output	6 kW									
Indirect heat output	- kW									
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Emissions at nominal heat output (*) [mg/Nm ³ (13 % O ₂)				Emissions at minimum heat output (*)(**) [mg/Nm ³ (13 % O ₂)			
			PM	OGC	CO	NO _x	PM	OGC	CO	NO _x
Wood logs, moisture content < 25 %	yes	no	20	110	1171	104	N.A.	N.A.	N.A.	N.A.
Compressed wood, moisture content < 12 %	no	no								
Other woody biomass	no	no								
Non-woody biomass	no	no								
Anthracite and dry steam coal	no	no								
Hard coke	no	no								
Low temperature coke	no	no								
Bituminous coal	no	no								
Lignite briquettes	no	no								
Peat briquettes	no	no								
Blended fossil fuel briquettes	no	no								
Other fossil fuel	no	no								
Blended biomass and fossil fuel briquettes	no	no								
Other blend of biomass and solid fuel	no	no								
Characteristics when operating with the preferred fuel										
Seasonal space heating efficiency η_s [%]	66									
Energy efficiency index (EEI)	100									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value
Heat output				Useful efficiency (NCV as received)						
Nominal heat output	P _{nom}	6.0	kW	Useful efficiency at nominal heat output	$\eta_{th,nom}$	75.8	%			
Minimum heat output (indicative)	P _{min}	N.A.	kW	Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	N.A.	%			
Auxiliary power consumption				Type of heat output/room temperature control (select one)						
At nominal heat output	e _{l,max}	N.A.	kW	Single-stage heat output, no room temperature control						yes
At minimum heat output	e _{l,min}	N.A.	kW	Two or more manual stages, no room temperature control						no
In standby mode	e _{l,sb}	N.A.	kW	With mechanic thermostat room temperature control						no
Permanent pilot flame power requirement				With electronic room temperature control						no
Pilot flame power requirement (if applicable)	P _{pilot}	N.A.	kW	With electronic room temperature control plus day timer						no
				With electronic room temperature control plus week timer						no
				Other control options (multiple selection possible)						
				Room temperature control, with presence detection						no
				Room temperature control, with open window detection						no
				With distance control option						no
Contact details	Barbas Bellfires BV Hallenstraat 17 5531 AB BLADEL The Netherlands				www.barbas.com					
(*) PM = particulate matter, OGC = organic gaseous compounds, CO = carbon monoxide, NO _x = nitrogen oxides (**) Only required if correction factors F(2) or F(3) are applied.										
Signed for and on behalf of the manufacturer by: Danny Baijens, CEO										
Bladel; 13 October 2025										