

Model identifier		BOX 35-55-120									
Equivalent models		BOX 40-55-110									
Indirect heating function		No									
Direct heat output		7.3 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	23	89	1068	96	56	466	2909	109
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 [%]		65									
Energy efficiency index (EEI)		99									
Item	Symbol	Value	Unit	Item				Symbol	Value	Unit	
Heat output				Useful efficiency (NCV as received)							
Nominal heat output	P _{nom}	7.3	kW	Useful efficiency at nominal heat output				$\eta_{th,nom}$	75.3	%	
Minimum heat output (indicative)	P _{min}	4.4	kW	Useful efficiency at minimum heat output (indicative)				$\eta_{th,min}$	69.8	%	
Auxilliary 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, NOx = 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; 20 August 2024											

