

Model identifier	BOX 40 35 90										
Equivalent models	N.A.										
Indirect heating function	No										
Direct heat output	3.8 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	33	59	1040	102	30	132	1949	117	
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 [%]	67										
Energy efficiency index (EEI)	102										
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Heat output				Useful efficiency (NCV as received)							
Nominal heat output	P _{nom}	3.8	kW	Useful efficiency at nominal heat output	$\eta_{th,nom}$	76.9	%				
Minimum heat output (indicative)	P _{min}	2.8	kW	Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	77.6	%				
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; 19 June 2025											