

Model identifier(s): Smart Fire 31							
Stoking mode: Automatic fuel feeding: it is recommended to operate the boiler with a domestic hot water tank with a minimum capacity of 620 l							
Condensing boiler: no							
Solid fuel cogeneration boiler: no				Combination boiler: no			
Fuel	Preferred fuel:	Other suitable fuel:	η_s	Seasonal space heating emissions			
				PM	OGC	CO	NOx
mg/m ³							
Log wood, moisture content $\leq 25\%$	no	no					
Chipped wood, moisture content 15-35 %	no	no					
Chipped wood, moisture content $> 35\%$	no	no					
Compressed wood in the form of pellets or briquettes	yes	no	80%	17	11	268	149
Sawdust, moisture content $\leq 50\%$	no	no					
Other woody biomass	no	no					
Non-woody biomass	no	no					
Bituminous coal	no	no					
Brown coal (including briquettes)	no	no					
Coke	no	no					
Anthracite	no	no					
Blended fossil fuel briquettes	no	no					
Other fossil fuel	no	no					
Blended biomass (30-70 %)/fossil fuel briquettes	no	no					
Other blend of biomass and fossil fuel	no	no					

Characteristics when operating with the preferred fuel only:

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Useful heat output				Useful efficiency			
At rated heat output	P_n	31,0	kW	At rated heat output	η_n	85,2	%
At 30% of rated heat output, if applicable	P_p	9,3	kW	At 30% of rated heat output, if applicable	η_p	84,1	%
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption			
				At rated heat output	el_{max}	0,086	kW
				At 30% of rated heat output, if applicable	el_{min}	0,034	kW
At rated heat output	$\eta_{el,n}$		%	Of incorporated secondary emission abatement equipment, if applicable			kW
				In standby mode	P_{SB}	0,004	kW

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