

Information requirements for solid fuel local space heaters

Model/Name:	POLYGON 25
Trademark:	NOBIS

Stoking mode:	Automatic	str
It is recommended that the boiler be operated with a hot water tank of a volume of at least: <i>info</i> - Tank volume = 20 x Pr with Pr indicated in kW	490	lt
Condensing boiler:	No	str
Solid fuel cogeneration boiler:	No	str
Combination boiler:	No	str

Fuel:	Preferred fuel:	Other suitable fuel(s):	$\eta_s$ , %	Seasonal space heating emissions:			
				P	COG	CO	NOX
Wood logs with moisture content $\leq$ 25 %	No	No	--	--	--	--	--
Compressed wood with moisture content < 12 %	Yes	No	80,4	4	1,1	21	152

mg/Nm<sup>3</sup> (10% O<sub>2</sub>)

Characteristics when operating with the preferred fuel only

Useful heat output

At rated heat output:	$P_n$	24,7	kW
At applicable part load:	$P_p$	7,2	kW

For solid fuel cogeneration boilers

Electrical efficiency at rated heat output (if applicable)	$\eta_{el,n}$	-	%
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Useful efficiency

At rated heat output:	$\eta_n$	85,3	%
At applicable part load:	$\eta_p$	85,4	%

Auxiliary electricity consumption

At rated heat output:	$e_{l,max}$	0,118	kW
At applicable part load:	$e_{l,min}$	0,07	kW
Of incorporated secondary emission abatement equipment		-	kW
In standby mode:	$P_{SB}$	0,002	kW

Energy efficiency class:	A+
Energy efficiency index (EEI):	119