

Information requirements for solid fuel local space heaters

Model/Name:	POLYGON 28
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 - Tank volume = 20 x Pr with Pr indicated in kW</i>	540	lt
Condensing boiler:	No	str
Solid fuel cogeneration boiler:	No	str
Combination boiler:	No	str

Fuel:	Preferred fuel:	Other suitable fuel(s):	η_s , %	Seasonal space heating emissions:			
				P	COG	CO	NOX
Wood logs with moisture content ≤ 25 %	No	No	--	--	--	--	--
Compressed wood with moisture content < 12 %	Yes	No	80,4	7,6	1,1	23	156

mg/Nm³ (10% O₂)

Characteristics when operating with the preferred fuel only

Useful heat output

At rated heat output:	P_n	27	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:	η_n	85,4	%
At applicable part load:	η_p	85,4	%

Auxiliary electricity consumption

At rated heat output:	$e_{l,max}$	0,121	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