

MCZ GROUP

TECHNICAL DOCUMENTATION FOR SOLID FUEL BOILERS ACCORDING TO COMMISSION REGULATIONS (EU) 2015/1187 - (EU) 2015/1189

Manufacturer:	MCZ GROUP S.p.A.
Trademark:	MCZ
Model Identifier:	SELECTA 20HQ S1
General description:	Solid Fuel Boiler fired by wood pellets
Condensing Boiler:	no
Solid fuel cogeneration boiler:	no
Combination boiler:	no
Stoking mode: Automatic - it is recommended that the boiler be operated with a hot water storage tank of a volume of at least:	360 liter
Useful heat output at rated heat output (P _n):	18,0 kW
Test according to:	EN 303-5
Notified Body:	IMQ (N.B. 0051)
	Via Quintiliano 43, 20138 Milano, IT

Fuel	Preferred fuel (only one)	Other suitable fuel(s)	η_s [%]	EEI [%]
Log wood, moisture content ≤ 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	77	115
Sawdust, moisture content ≤ 50 %	no	no		
Other woody biomass	no	no		

Emissions when operating with the preferred fuel (mg/Nm ³ at 10% O ₂)	CO	NO _x	OGC	PM
At rated heat output (E _{s,n})	34	159	1	8
At 30 % of rated heat output (E _{s,p})	181	126	5	8
Seasonal space heating emissions (E _s)	159	131	4	8

Observe the specific precautions for installation, assembly and maintenance indicated in the manual accompanying the product

Energy Efficiency Class (A+++ to D scale) **A+**

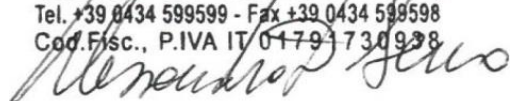
Characteristics when operating with the preferred fuel

Useful heat output			
Item	Symbol	Value	Unit
At rated heat output	P _n	18,0	kW
At 30 % of rated heat output	P _p	5,4	kW
For solid fuel cogeneration boilers: Electrical efficiency			
Minimum heat output	$\eta_{el,n}$	n.a.	kW

Auxiliary electricity consumption			
Item	Symbol	Value	Unit
At rated heat output	el _{max}	0,097	kW
At 30 % of rated heat output	el _{min}	0,066	kW
Of incorporated secondary emission abatement equipment, if applicable		n.a.	kW
In standby mode	P _{sb}	0,002	kW

Useful efficiency (GCV)			
Item	Symbol	Value	Unit
At rated heat output	η_n	84,0	%
At 30 % of rated heat output	η_p	83,1	%

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