

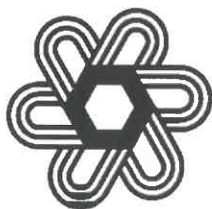
**"ITEM - Consult" Ltd. Sofia 1220,
bul. Istoriq Slavqnobulgarska. № 8**

**ECODESIGN REQUIREMENTS FOR SOLID FUEL BOILERS ACCORDING TO
COMMISSION REGULATION (EU) 2015/1189 IMPLEMENTING DIRECTIVE
2009/125/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL**

№DI-184/21.04.2020

Trade mark:	Mareli Systems Ltd
Model:	ECOSTAR AUTO 18
Stoking mode:	Local heating pellet boiler with built-in hopper
Condensing boiler:	No
Solid fuel cogeneration boiler:	Combination boiler:

Fuel	Preferred fuel (only one)	Other suitable fuel(s) :	η_s (%)	Seasonal space heating emissions			
				PM	OGC	CO	NO _x
				mg/m ³ at 10% O ₂			
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	84.66	19.30	7.10	164.33	112.83
Sawdust, moisture content $\leq 50\%$	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					




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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	18.26	kW	At rated heat output	η_n	89.40	%
At (30%/50%) of rated heat output if it's applicable	P_p	5.86	kW	At (30%/50%) of rated output if applicable	η_p	90.05	%
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption			
At rated heat output	$\eta_{el,n}$	N.A.	%	At rated heat output	$e_{l,max}$	0.09	kW
				At (30%/50%) of rated output if applicable	$e_{l,min}$	0.04	kW
				Of incorporated secondary emission abatement equipment, if applicable		N.A.	kW
				In standby mode	P_{SB}	0.001	kW

Contact details	Name and address of the manufacturer or its authorised representative
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