

„ITEM Consult” Ltd

Sofia 1220, 8, Istorica Slavianobulgarska Blvd., Bulgaria

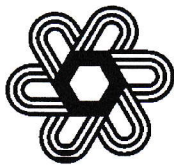
CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

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-227/22.05.2020

Trade mark:	„Mareli Systems” Ltd
Model:	Eco pellet star 18
Stoking mode:	Automatic
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	NOx
				Mg/m ³ at 10% O ₂			
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	81,36	15,45	3,22	97.04	127.09
Sawdust, moisture content ≤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	18,16	kW	At rated heat output	η_n	85,41	%
At (30%/50%) of rated heat output if it's applicable	P_p	5,75	kW	At (30%/50%) of rated output if applicable	η_p	87,47	%
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption			
At rated heat output	$\eta_{el,n}$	N.A.	%	At rated heat output	$e_{l,max}$	0,22	kW
				At (30%/50%) of rated output if applicable	$e_{l,min}$	0,06	kW
				Of incorporated secondary emission abatement equipment, if applicable		N.A.	kW
				In standby mode	P_{SB}	0,001	kW

CONCLUSION:

Solid fuel boiler with pellet burner „Eco pellet star 18” MEET THE REQUIREMENTS OF Annex II „Ecodesign Requirements” of REGULATION (EU) 2015/1189.

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