

# „ITEM Consult” Ltd

Sofia 1220, 8, Istorica Slavianobulgarska Blvd., Bulgaria

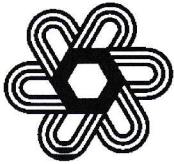
CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

## 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-228/22.05.2020

<b>Trade mark:</b>	<b>„Mareli Systems” Ltd</b>
<b>Model:</b>	<b>Eco pellet star 24</b>
<b>Stoking mode:</b>	<b>Automatic</b>
<b>Condensing boiler:</b>	<b>No</b>
<b>Solid fuel cogeneration boiler:</b>	<b>Combination boiler:</b>

Fuel	Preferred fuel (only one)	Other suitable fuel(s)	$\eta_s$ (%)	Seasonal space heating emissions			
				PM	OGC	CO	NOx
				Mg/m <sup>3</sup> at 10% O <sub>2</sub>			
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	82,15	15,45	3,31	123.57	161.84
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	$P_n$	24,10	kW	At rated heat output	$\eta_n$	85,56	%
At (30%/50%) of rated heat output if it's applicable	$P_p$	7,50	kW	At (30%/50%) of rated output if applicable	$\eta_p$	87,59	%
For solid fuel cogeneration boilers: Electrical efficiency				<b>Auxiliary electricity consumption</b>			
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 24” MEET THE REQUIREMENTS OF Annex II „Ecodesign Requirements” of REGULATION (EU) 2015/1189.

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