

"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-342/18.10.2019

Trade mark:	"Mareli Systems" Ltd				
Model:	SBN 18				
Stoking mode:	Automatic				
Condensing boiler:	No				
Solid fuel cogeneration boiler:	Combination boiler:				

Fuel	Preferred fuel (only one)	Other suitabl e fuel(s)	η_s (%)	Seasonal space heating emissions			
				PM	OGC	CO	NOx
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	yes	no	85,67	12,37	5,19	113.81	103.62
pellets or briquettes							
Sawdust, moisture content≤50%	no	no				ři.	
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			b	Tagg	21



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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	18,82	kW	At rated heat output η _n		88,31	%
At (30%/50%) of rated heat output if it's applicable	Pp	5,46	kW	At (30%/50%) of η _p rated otput if applicable		89,23	%
For solid fuel cogeneration b	oilers: Elec	ctrical effi	ciency	Auxiliary electricity	consumpti	on	
At rated heat output	$\eta_{el,n}$	N.A.	%	At rated heat output	el _{max}	0,014	kW
	3000			At (30%/50%) of rated otput if applicable	el _{min}	0,008	kW
				Of incorporated secondary emission abatement equipment, if applicable		N.A.	kW
				In standby mode	P_{SB}	0,003	kW

CONCLUSION:

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

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