

## "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-341/18.10.2019

Trade mark:	"Mareli Systems" Ltd		
Model:	SBN 12		
Stoking mode:	Automatic		
Condensing boiler:	No		
Solid fuel cogeneration boiler:	Combination boiler:		

Fuel	Preferred fuel (only	Other suitabl	η <sub>s</sub> (%)	Seasonal space heating emissions			
	one)	e		PM	OGC	CO	NOx
		fuel(s)		$Mg/m^3$ 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	85,08	12,77	6,21	105.08	98.58
Sawdust, moisture content≤50%	no	no				e	
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			Ø.	i i i j	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 <sub>n</sub>	12,50	kW	At rated heat output	$\eta_{\rm n}$	93,86	%
At (30%/50%) of rated heat output if it's applicable	P <sub>p</sub>	3,46	kW	At (30%/50%) of rated otput if applicable	ηρ	95,85	%
For solid fuel cogeneration b	oilers: Elec	ctrical effi	ciency	Auxiliary electricity	consumpti	on	
At rated heat output η,	$\eta_{el,n}$	N.A.	%	At rated heat output	el <sub>max</sub>	0,015	kW
	*******			At (30%/50%) of rated otput if applicable	el <sub>min</sub>	0,009	kW
				Of incorporated secondary emission abatement equipment, if applicable		N.A.	kW
				In standby mode	P <sub>SB</sub>	0,003	kW

## **CONCLUSION:**

Solid fuel boiler with pellet burner "SBN 12" MEET THE REQUIREMENTS OF Annex II "Ecodesign Requirements" of REGULATION (EU) 2015/1189.

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