

„ITEM Consult”Ltd

Sofia 1220, 8, Istoria Slavianobulgarska Blvd., Bulgaria

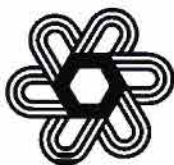
CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

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-188/02.08.2022

Trade mark:	Mareli Systems Ltd
Model:	ECOSTAR AUTO 50
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	85	18	1	222	152
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					



„ITEM Consult”Ltd

Sofia 1220, 8, Istoria Slavianobulgarska Blvd., Bulgaria

CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

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	49.51	kW	At rated heat output	η_n	88.63	%
At (30%/50%) of rated heat output if it's applicable	P_p	14.82	kW	At (30%/50%) of rated output if applicable	η_p	89.10	%
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption			
At rated heat output	$\eta_{el,n}$	N.A.	%	At rated heat output	$e_{l,max}$	0.13	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}	0.006	kW

Contact details	Name and address of the manufacturer or its authorised representative
Telephone: +359 888 406 956	“Mareli Systems”Ltd Address: Sofia, Bulgaria, Lyulin district, bl. 821, ap. 1 Telephone: +359 888 406 956

Prepared by:.....

/M. Vasileva/

Manager:.....

/M. Sc. V. Vasilev/

