

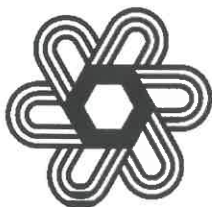
**"ITEM - Consult" Ltd. Sofia 1220,
bul. Istoriq Slavqnobulgarska. № 8**

**ECODESIGN REQUIREMENTS FOR SOLID FUEL LOCAL SPACE HEATERS
ACCORDING TO COMMISSION REGULATION (EU) 2015/1185 IMPLEMENTING
DIRECTIVE 2009/125/EC OF THE EUROPEAN PARLIAMENT AND OF THE
COUNCIL**

№DI-189/23.04.2020

Trade mark:	„Mareli Systems” Ltd
Appliance:	Water jacket pellet stove
Model:	ONYX HIDRO 18 AUTO
Stoking mode:	Automatic
Indirect heating functionality:	Yes
Direct heat output:	2,17
Indirect heat output:	16,16

Fuel	Preferred fuel (only one)	Other suitable fuel (s)	η_s (%)	Emissions at nominal heat output				Emissions at reduced heat output				
				PM	OGC	CO	NO _x	PM	OGC	CO	NO _x	
				Mg/m ³ at 13% 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	85.05	12.61	10.63	96.65	122.43	14.12	13.19	125.33	148.16	
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										



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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	18.33	kW	At rated heat output	η_n	88.66	%
At (30%/50%) of rated heat output if it's applicable	P_p	6.12	kW	At (30%/50%) of rated output if applicable	η_p	88.90	%
Auxiliary electricity consumption				Type of heat output/room temperature control			
At rated heat output	$e_{l_{max}}$	0,05	kW	Single stage heat output, no room temperature control	Yes/no	No	
				Two or more manual stages, no room temperature control	Yes/no	Yes	
				With mechanic thermostat room temperature control	Yes/no	No	
At (30%/50%) of rated output if applicable	$e_{l_{min}}$	0,02	kW	With electronic room temperature control	Yes/no	No	
In standby mode	P_{SB}	0,001	kW	With electronic room temperature control plus day timer	Yes/no	No	
Permanent pilot flame power requirement				With electronic room temperature control plus week timer	Yes/no	No	
Pilot flame power /if applicable/	P_{pilot}	N.A.	kW	Other control options			
				Room temperature control with presence detection	Yes/no	No	
				Room temperature control with open window detection	Yes/no	No	
				With distance control option	Yes/no	No	

CONCLUSION:

Water jacket pellet stove ONYX HIDRO 18 AUTO MEET THE REQUIREMENTS OF Annex II „Ecodesign Requirements” of REGULATION (EU) 2015/1185.

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