



# „ITEM Consult”Ltd

Sofia 1220, 8, Istoria Slavianobulgarska Blvd., Bulgaria

CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

## 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-151/09.05.2023

<b>Trade mark:</b>	<b>“ÇALIŞKAN Emaye ve Isı Cihazları A.Ş”</b>
<b>Appliance:</b>	<b>Biofuel heater (wood)</b>
<b>Model:</b>	<b>“301” – 12.0 kW</b>
<b>Stoking mode:</b>	<b>Manual</b>
<b>Indirect heating functionality:</b>	<b>No</b>
<b>Direct heat output:</b>	<b>12.04 kW</b>
<b>Indirect heat output:</b>	<b>not applicable</b>

Fuel	Preferred fuel (only one)	Other suitable fuel (s)	$\eta_s$ (%)	Emissions at nominal heat output				Emissions at reduced heat output			
				PM	OGC	CO	NO <sub>x</sub>	PM	OGC	CO	NO <sub>x</sub>
				mg/m <sup>3</sup> at 13% O <sub>2</sub>							
Log wood, moisture content $\leq 25\%$	yes	no	65.12	24.61	45.69	1336.97	165.27	-	-	-	-
Chipped wood, moisture content 15-35%	no	no									
Chipped wood, moisture content $>35\%$	no	no									
Compressed wood in the form of pellets or briquettes	no	no									
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	$P_n$	12.04	kW	At rated heat output	$\eta_n$	75.12	%
At (30%/50%) of rated heat output if it's applicable	$P_p$	-	kW	At (30%/50%) of rated output if applicable	$\eta_p$	-	%
<b>Auxiliary electricity consumption</b>				<b>Type of heat output/room temperature control</b>			
At rated heat output	$e_{l,max}$	-	kW	Single stage heat output, no room temperature control	Yes/no	No	
				Two or more manual stages, no room temperature control	Yes/no	No	
				With mechanic thermostat room temperature control	Yes/no	No	
At (30%/50%) of rated output if applicable	$e_{l,min}$	-	kW	With electronic room temperature control	Yes/no	No	
In standby mode	$P_{SB}$	-	kW	With electronic room temperature control plus day timer	Yes/no	No	
<b>Permanent pilot flame power requirement</b>				With electronic room temperature control plus week timer	Yes/no	No	
Pilot flame power /if applicable/	$P_{pilot}$	N.A.	kW	<b>Other control options</b>			
				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:

Heating appliance (cooker) of biofuel (wood) “ 301” – 12.0 kW MEET THE REQUIREMENTS OF Annex II „Ecodesign Requirements” of REGULATION (EU) 2015/1185.

Contact details	Name and address of the manufacturer or its authorised representative
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