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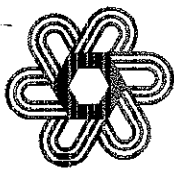
CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

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-154/06.07.2022

Trade mark:	„ÇALIŞKAN Emaye ve Isı Cihazları A.Ş “
Appliance:	Solid fuel /wood / cooking and heating stove
Model:	“214-3D”
Trade name:	214-Box
Stoking mode:	Manual
Indirect heating functionality:	No
Direct heat output:	6.42 kW
Indirect heat output:	<i>not applicable</i>

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 ≤25%	yes	no	67.85	32.27	26.12	1347.54	191.44	-	-	-	-
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 ≤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	no	no									



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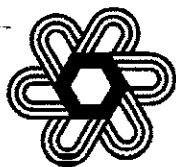
CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

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-156/06.07.2022

Trade mark:	„ÇALIŞKAN Emaye ve Isı Cihazları A.Ş “
Appliance:	Solid fuel /wood / heating stove
Model:	“304-3D TURBO”
Stoking mode:	Manual
Indirect heating functionality:	No
Direct heat output:	7.23 kW
Indirect heat output:	<i>not applicable</i>

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 ≤25%	yes	no	65.80	32.28	27.66	1400.90	186.32	-	-	-	-
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 ≤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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CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

Other blend of biomass and fossil fuel	no	no									
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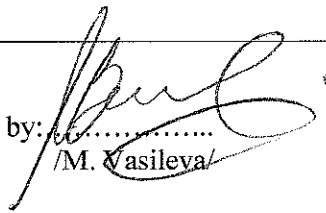
Characteristics when operating with the preferred fuel only:

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Useful heat output				Useful efficiency			
At rated heat output	P_n	7.23	kW	At rated heat output	η_n	75.80	%
At (30%/50%) of rated heat output if it's applicable	P_p	-	kW	At (30%/50%) of rated output if applicable	η_p	-	%
Auxiliary electricity consumption				Type of heat output/room temperature control			
At rated heat output	el_{max}	-	kW	Single stage heat output, no room temperature control	Yes/no	Yes	
				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	el_{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	
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	

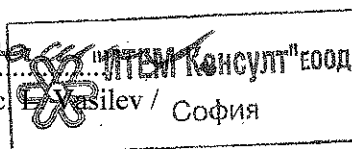
CONCLUSION:

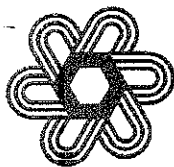
Solid fuel /wood/ cooking and heating stove “304-3D TURBO” MEET THE REQUIREMENTS OF Annex II „Ecodesign Requirements” of REGULATION (EU) 2015/1185.

Contact details	Name and address of the manufacturer or its authorised representative
Phone: +90 258 269 10 23	“ÇALIŞKAN Emaye ve Isı Cihazları A.Ş.” Address: Hüsni Örnek Caddesi No:12, Organize Sanayi Bölgesi, Denizli / Türkiye

Prepared by:  M. Vasileva

Manager:  M. Vasileva





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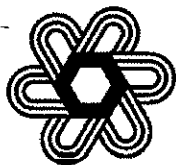
CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

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-280/25.08.2022

Trade mark:	„ÇALIŞKAN Emaye ve Isı Cihazları A.Ş “
Appliance:	Solid fuel /wood / cooking and heating stove
Model:	“306-3D”
Trade name:	„306-3D-Box”
Stoking mode:	Manual
Indirect heating functionality:	No
Direct heat output:	12.87 kW
Indirect heat output:	<i>not applicable</i>

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 ≤25%	yes	no	66.09	28.24	32.12	1369.15	189.63	-	-	-	-
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 ≤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	no	no									



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CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

briquettes											
Other blend of biomass and fossil fuel	no	no									

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	12.87	kW	At rated heat output	η_n	76.09	%
At (30%/50%) of rated heat output if it's applicable	P_p	-	kW	At (30%/50%) of rated output if applicable	η_p	-	%
Auxiliary electricity consumption				Type of heat output/room temperature control			
At rated heat output	$e_{l_{max}}$	-	kW	Single stage heat output, no room temperature control	Yes/no	Yes	
				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	
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:

Solid fuel /wood/ cooking and heating stove “306-3D” MEET THE REQUIREMENTS OF Annex II „Ecodesign Requirements” of REGULATION (EU) 2015/1185.

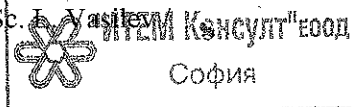
Contact details	Name and address of the manufacturer or its authorised representative
Phone: +90 258 269 10 23	“ÇALIŞKAN Emaye ve Isı Cihazları A.Ş.” Address: Hüsnü Örnek Caddesi No:12, Organize Sanayi Bölgesi, Denizli / Türkiye

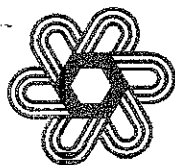
Prepared by:

/M. Vasileva/

Manager:.....

/M. Sc. I. Vasileva/





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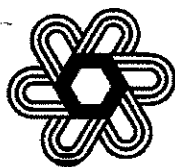
CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

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-277/25.08.2022

Trade mark:	„ÇALIŞKAN Emaye ve Isı Cihazları A.Ş “
Appliance:	Solid fuel /wood / heating stove
Model:	“305-3D Fireplace stove”
Stoking mode:	Manual
Indirect heating functionality:	No
Direct heat output:	12.50 kW
Indirect heat output:	<i>not applicable</i>

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 $\leq 25\%$	yes	no	65.20	32.17	51.89	1430.56	188.33	-	-	-	-
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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CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

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	12.50	kW	At rated heat output	η_n	75.20	%
At (30%/50%) of rated heat output if it's applicable	P_p	-	kW	At (30%/50%) of rated output if applicable	η_p	-	%
Auxiliary electricity consumption				Type of heat output/room temperature control			
At rated heat output	el_{max}	-	kW	Single stage heat output, no room temperature control	Yes/no	Yes	
				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	el_{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	
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:

Solid fuel /wood/ cooking and heating stove “305-3D Fireplace stove” 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
Phone: +90 258 269 10 23	“ÇALIŞKAN Emaye ve Isı Cihazları A.Ş.” Address: Hüsnü Örnek Caddesi No:12, Organize Sanayi Bölgesi, Denizli / Türkiye

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Manager:

M. Sc. Vasilev/

