

# „ITEM Consult”Ltd

Sofia 1220, 8, Istoria Slavianobulgarska Blvd., Bulgaria

CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

№ДП-423/13.11.2023

## ASSURANCE Prüfzeugnis

**Feuerstättenart:** *Heizgerät (Herd) aus Biobrennstoff (pellets)*  
*Product type:* *Heating appliance (cooker) of biofuel (wood)*

**Typ:** *Heizung und Pelletofen*  
*Type:* *Heating cooker pellets*

**Modelle:** **„SAPHIRE”**  
*Model(s):*

**Hersteller:** **MAK ENDÜSTRİYEL ÜRETİM VE TİCARET AŞ.**  
*Manufacturer:* Akkent Mah. Iskilip Cad. No 137 /Ipek Yesil Enerji Is Merkezi/ Merkez Çorum/TÜRKİYE

Dieses Dokument weist auf die Einhaltung der Anforderung der **2. BlmSchV** in Bezug auf Energieeffizienz und Emissionen hin.

*This document indicates compliance with the requirements of the 2<sup>nd</sup> BlmSchV regarding energy efficiency and emissions.*

**Testergebnisse:** **Bewertungen und Testergebnisse sind auf Seite 2 angegeben.**  
*Test Results:* *Ratings and test results are reported on page 2.*

Dieses Prüfzeugnis basiert auf einem **„ITEM Consult” Ltd. Sofia 1220,**  
**Prüfbericht der** **bul. Istoria Slavianobulgarska. № 8**  
*This Assurance is based on a Test Report issued*  
*by*

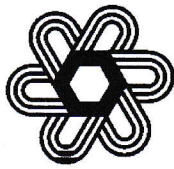
**Für den Nachweis der Einhaltung und von der Norm verlangten Anforderung wird auf dem Prüfbericht**

*For den verification of compliance with the requirements required by the standard, reference is made to the test report*

**Prüfberichtsnummer:** **CPR 383/17.10.2023 and Test Report 383 NA/17.10.2023**  
*Test Report Reference №* **(issued by ACCREDIA lab. № - CPR 21 – NB 1837)**

**Wir bestätigen auf Grundlage der Typprüfung nach EN 12815:2006 and EN 9096:2017 dass Dnforderungen dn die Emissifnsgrenzwerte und den Mindestwirkungsgrad gemäß 2. Stufe, 1.BlmSchV (ab 2015) eingehalten warden.**

**Dieses Dokument besteht aus 2 Seiten mit 0 Anhängen.**  
*This document is composed of 2 pages including 0 annexes.*



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## CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

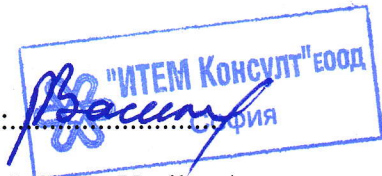
We confirm on the basis of the type test according to EN 12815:2006 and EN 9096:2017 that the requirements on the emissions limit values and the minimum efficiency according to the second stage, 1.BlmSchV (ab 2015).

	<b>Nennwärmeleistung</b> Nominal heat output	<b>Genzwert</b> Limit	<b>Comply</b>
<b>Nennwärmeleistung:</b> <b>kW</b> <i>Nominal heat output:</i>	<b>10.11</b>	<b>≥4</b>	<b>Pass</b>
<b>Wirkungsgrad</b> <b>% Efficiency:</b>	<b>85.94</b>	<b>≥ 70</b>	<b>Pass</b>
<b>Kohlenmonoxid (CO)<sup>x</sup></b> <b>mg/Nm<sup>3</sup></b> <i>CO emission <sup>x</sup></i>	<b>145.31</b>	<b>≤ 1.5 g/m<sup>3</sup></b> <b>≤ 1500 mg/ m<sup>3</sup></b>	<b>Pass</b>
<b>Staub <sup>x</sup></b> <b>mg/Nm<sup>3</sup></b> <b>Dust emission <sup>x</sup></b>	<b>14.45</b>	<b>≤ 40 mg/ m<sup>3</sup></b>	<b>Pass</b>

<sup>x</sup> bezogen auf 13% O<sub>2</sub>/value at 13% O<sub>2</sub>

2023-11-13

Manager:.....



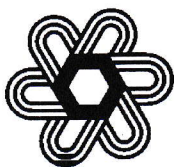
/M. Sc. L. Vasilev /

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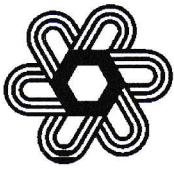
CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

## 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-411/10.11.2023

Trade mark:	„MAK ENDÜSTRİYEL ÜRETİM VE TİCARET AŞ.”
Appliance:	Cooking and heating pellet stove
Model:	<b>SAPHIRE</b>
Stoking mode:	Manual
Indirect heating functionality:	No
Direct heat output:	10.11 kW
Indirect heat output:	-

Fuel	Preferred fuel (only one)	Other suitable fuel (s)	$\eta_s$ (%)	Emissions at nominal heat output				Emissions at reduced heat output					
				PM	OGC	CO	NOx	PM	OGC	CO	NOx		
				Mg/m <sup>3</sup> at 13% O <sub>2</sub>									
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	76	14	5	145	193						
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											
Other blend of	no	no											



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biomass and fossil fuel

### 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	$P_n$	10.11	kW	At rated heat output	$\eta_n$	85.94	%
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	Yes	
				Two or more manual stages, no room temperature control	Yes/no	-	
				With mechanic thermostat room temperature control	Yes/no	-	
At (30%/50%) of rated output if applicable	$e_{l_{min}}$	-	kW	With electronic room temperature control	Yes/no	-	
In standby mode	$P_{SB}$	-	kW	With electronic room temperature control plus day timer	Yes/no	-	
<b>Permanent pilot flame power requirement</b>				With electronic room temperature control plus week timer	Yes/no	-	
Pilot flame power /if applicable/	$P_{pilot}$	N.A.	kW	<b>Other control options</b>			
				Room temperature control with presence detection	Yes/no	-	
				Room temperature control with open window detection	Yes/no	-	
				With distance control option	Yes/no	-	

### CONCLUSION:

Cooking and heating pellet stove "SAPHIRE" 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
Telephone:	„MAK ENDÜSTRİYEL ÜRETİM VE TİCARET AŞ.” Address: Akkent Mah. Iskilip Cad. No 137 /Ipek Yesil Enerji Is Merkezi/ Merkez Çorum/TÜRKİYE

Prepared by: .....

/M. Vasileva/

Manager:

