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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-517/11.11.2024

Trade mark:	ISIMETAL ISI CIHAZLARI MAKINA SAN. ve TIC. A.Ş
Appliance:	Solid fuel /wood / heating stove
Model:	SK-100
Trade names:	SK 101, SK 103, SK 104, SK 105, SK 106, SK 107, SK 108, SK 109, SK 110
Stoking mode:	Manual
Indirect heating functionality:	No
Direct heat output:	9.23 kW
Indirect heat output:	not applicable

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 ³ at 13% O ₂							
Log wood, moisture content $\leq 25\%$	yes	no	67	20	38	1482	168	-	-	-	-
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									



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Blended biomass (30-70%) fossil fuel briquettes	no	no								
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	9.23	kW	At rated heat output	η_n	77.21	%
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/ heating stove "SK-100" 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
Address: Yunusemre Mah. Kirkpinar Cad. Ordukaya Sok. No 2-4, YILDIRIM - BURSA/ Türkiye	ISIMETAL ISI CIHAZLARI MAKINA SAN. ve TIC. A.Ş

Prepared by:.....
/M. Vasileva/

Manager:.....
/M. St. Vasilev /





"ITEM Consult" Ltd. Sofia 1220,
8 Istoria Slavianobulgarska Blvd

EEI ASSURANCE

№DI-519/11.11.2024

Регламент/Regulation (EU) 2015/1186

Product: Heating and cooking appliance (stove) of biofuel (wood)
Manufacturer: ISIMETAL ISI CIHAZLARI MAKINA SAN. ve TIC. A.Ş
Model: SK-102
Requested by: ISIMETAL ISI CIHAZLARI MAKINA SAN. ve TIC. A.Ş
Yunusemre Mah. Kirkpinar Cad. Ordukaya Sok. No 2-4, YILDIRIM - BURSA/ Türkiye
Trade names: „SK-102B”; „SK-102C”; „SK-102D”; „SK-102E”; „SK-102F”
Stoking principle: manual loading
Test Fuel: Solid fuel – seasonal hornbeam tree, Test report for the fuel №14435/15.05.2023
Test procedure: EN 12815:2006
Test report no: CPR 432 A/27.05.2024

Fixed values:

F (5)	Correction factor accounting for a negative contribution to the energy efficiency index by energy consumption of a permanent pilot flame	0 [%]
CC	Conversion coefficient for electricity consumption	2.5 [-]
BLF	Biomass label factor	1.45 [-]

Test results:

η_k nominal	Efficiency at nominal heat output	76.22 [%]
η_k minimum	Efficiency at minimum heat output	0.00 [%]
M	Test fuel, moisture	8.79 [%]
GCV _{mf}	Test fuel, gross calorific value, moisture free	19.28 [MJ/kg]
H _{iw}	Test fuel, net heating value, with moisture	16.24 [MJ/kg]
H _{iwf}	Test fuel, net heating value, moisture free	17.96 [MJ/kg]
el _{max}	Electricity consumption at nominal heat output	0 [kW]
el _{min}	Electricity consumption at minimum heat output	0 [kW]
P _{SB}	Electricity consumption in standby mode	0 [kW]
P _n	Nominal heat output	5.12 [kW]
P _p	Minimum heat output	0.00 [kW]

Calculations

η_n	Efficiency at nominal output	76.22 [%]
η_p	Efficiency at reduced output	0.00 [%]
$\eta_{el,n}$	Electrical efficiency of solid fuel cogeneration boiler	0.00 [%]
η_{son}	Seasonal space heating energy efficiency in active mode	76.22 [%]
η_s	Seasonal space heating energy efficiency	66.22 [%]
F(2)	Correction factor accounting positive contribution to the EEI of controls of indoor heating comfort, which values cannot be summed	0.0000 n/a
F(3)	Correction factor accounting positive contribution to EEI of the controls for indoor heating comfort	0.0000 n/a
F(4)	Correction factor accounting for a negative contribution to the EEI by auxiliary electricity consumption	0.0000 n/a

Calculation of the Energy Efficiency index:

Energy Efficiency:	100.52
Energy Efficiency class:	A
Energy Efficiency index (EEI)	$88 \leq EEI < 107$

Изготвил:

M. Василева

Manager:

/M. Sc. L. Vasilev/

"ITEM Консулт" ЕООД
София



„ITEM Consult”Ltd

Sofia 1220, 8, Istoria Slavianobulgarska Blvd., Bulgaria

CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

№ДИ-518/11.11.2024

ASSURANCE Prüfzeugnis

Feuerstättenart:

Product type:

Beheizung geschlossener Räume

Heating of closed spaces

Typ:

Type:

Wohnraumheizgerät, das von Holzstämmen befeuert wird

Residential space heating appliance fired by wood logs

Modelle:

Model(s):

SK 100/SK 101, SK 103, SK 104, SK 105, SK 106, SK 107, SK 108, SK 109, SK 110

Hersteller:

Mdnufacturer:

ISIMETAL ISI CIHAZLARI MAKINA SAN. ve TIC. A.Ş

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

This document indicates compliance with the requirements of the 2nd BImSchV regarding energy efficiency and emissions.

Testergebnisse:

Test Results:

Bewertungen und Testergebnisse sind auf Seite 2 angegeben.

Ratings and test results are reported on page 2.

Dieses Prüfzeugnis basiert auf einem

Prüfbericht der

This Assurance is based on a Test Report issued by

"ITEM Consult" Ltd. Sofia 1220,

bul. Istoria Slavianobulgarska. № 8

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

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

Prüfberichtsnummer:

Test Report Reference №

CPR 431A/22.05.2024 and Test Report 431A

NA/22.05.2024 (issued by ACCREDIA lab. № - CPR 21 – NB 1837

Dieses Dokument besteht aus 2 Seiten mit 0 Anhängen.

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Sofia 1220, 8, Istoria Slavianobulgarska Blvd., Bulgaria

CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

Wir bestätigen auf Grundlage der Typprüfung nach EN 13240:2006 dass Dnforderungen
dn die Emissifnsgrenzwerte und den Mindestwirkungsgrad gemäß 2. Stufe, 1.BlmSchV (ab
2015) eingehalten worden.

We confirm on the basis of the type test according to EN 13240:2006 that the
requirements on the emissions limit values and the efficiency according to the second stage,
1.BlmSchV (ab 2015).

	Nennwärmeleistung Nominal heat output	Genzwert Limit	Comply
Nennwarmeleistung: kW Nominal heat output:	9.23	≥ 4	Pass
Wirkungsgrad& % Efficiency:	77.21	≥ 70	Pass
Kohlenmonoxid (CO)* mg/Nm ³ CO emission *	1481.96	≤ 1250	No
Staub * mg/Nm ³ Dust emission *	20.39	≤ 40	Pass

* bezogen auf 13% O₂/value at 13% O₂

24-11-11

Manager:.....


/M. Sc. L. Vasilev /
ITEM КОНСУЛТ ЕООД
София

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Page 2 of 2



"ITEM Consult" Ltd. Sofia 1220,
8 Istoria Slavianobulgarska Blvd

EEI ASSURANCE

№DI-516/11.11.2024

Регламент/Regulation (EU) 2015/1186

Product: Heating appliance (stove) of biofuel (wood)
Manufacturer: ISIMETAL ISI CIHAZLARI MAKINA SAN. ve TIC. A.Ş
Model: SK-100
Requested by: ISIMETAL ISI CIHAZLARI MAKINA SAN. ve TIC. A.Ş
Yunusemre Mah. Kirkpinar Cad. Ordukaya Sok. No 2-4, YILDIRIM - BURSA/ Türkiye
Trade names: SK 101, SK 103, SK 104, SK 105, SK 106, SK 107, SK 108, SK 109, SK 110
Stoking principle: manual loading
Test Fuel: Solid fuel – seasonal hornbeam tree, Test report for the fuel №14435/15.05.2023
Test procedure: EN 13240:2006
Test report no: CPR 431 A/22.05.2024

Fixed values:

F (5)	Correction factor accounting for a negative contribution to the energy efficiency index by energy consumption of a permanent pilot flame	0 [%]
CC	Conversion coefficient for electricity consumption	2.5 [-]
BLF	Biomass label factor	1.45 [-]

Test results:

$\eta_{k \text{ nominal}}$	Efficiency at nominal heat output	77.21 [%]
$\eta_{k \text{ minimum}}$	Efficiency at minimum heat output	0.00 [%]
M	Test fuel, moisture	8.79 [%]
GCV _{mf}	Test fuel, gross calorific value, moisture free	19.28 [MJ/kg]
H _{iw}	Test fuel, net heating value, with moisture	16.24 [MJ/kg]
H _{iwf}	Test fuel, net heating value, moisture free	17.96 [MJ/kg]
e _{l max}	Electricity consumption at nominal heat output	0 [kW]
e _{l min}	Electricity consumption at minimum heat output	0 [kW]
P _{SB}	Electricity consumption in standby mode	0 [kW]
P _n	Nominal heat output	9.23 [kW]
P _p	Minimum heat output	0.00 [kW]

Calculations

η_n	Efficiency at nominal output	77.21 [%]
η_p	Efficiency at reduced output	0.00 [%]
$\eta_{el,n}$	Electrical efficiency of solid fuel cogeneration boiler	0.00 [%]
η_{son}	Seasonal space heating energy efficiency in active mode	77.21 [%]
η_s	Seasonal space heating energy efficiency	67.21 [%]
F(2)	Correction factor accounting positive contribution to the EEI of controls of indoor heating comfort, which values cannot be summed	0.0000 n/a
F(3)	Correction factor accounting positive contribution to EEI of the controls for indoor heating comfort	0.0000 n/a
F(4)	Correction factor accounting for a negative contribution to the EEI by auxiliary electricity consumption	0.0000 n/a

Calculation of the Energy Efficiency index:

Energy Efficiency:	101.95
Energy Efficiency class:	A
Energy Efficiency index (EEI)	$88 \leq EEI < 107$

Изготвил:
M. Василева

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-520/11.11.2024

Trade mark: ISIMETAL ISI CIHAZLARI MAKINA SAN. ve
TIC. A.Ş

Appliance: Solid fuel /wood / heating and cooking stove

Model: SK-102

Trade names: SK-102B; SK-102C; SK-102D; SK-102E; SK-102F

Stoking mode: Manual

Indirect heating functionality: No

Direct heat output: 5.12 kW

Indirect heat output: *not applicable*

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	21	35	1485	171	-	-	-	-
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-	no	no									



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CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

70%) fossil fuel 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	5.12	kW	At rated heat output	η_n	76.22	%
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/ heating and cooking stove "SK-102" 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
Address: Yunusemre Mah. Kirkpinar Cad. Ordukaya Sok. No 2-4, YILDIRIM - BURSA/ Türkiye	ISIMETAL ISI CIHAZLARI MAKINA SAN. ve TIC. A.Ş

Prepared by:.....
/M. Vasileva/

Manager:.....
/M. Sc. L. Vasilev /





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CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

№ДИ-521/11.11.2024

ASSURANCE Prüfzeugnis

Feuerstättenart: Beheizung geschlossener Räume
Product type: Heating of closed spaces

Typ: Wohnraumheizgerät, das von Holzstämmen befeuert wird
Type: Residential space heating appliance fired by wood logs

Modelle: SK 102/ SK-102B; SK-102C; SK-102D; SK-102E; SK-102F/
Model(s):

Hersteller: ISIMETAL ISI CIHAZLARI MAKINA SAN. ve TIC. A.Ş
Manufacturer:

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

This document indicates compliance with the requirements of the 2nd BImSchV 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 Prüfbericht der
This Assurance is based on a Test Report issued by

**"ITEM Consult" Ltd. Sofia 1220,
bul. Istorla Slavlanobulgarska. № 8**

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 432A/27.05.2024 and Test Report 432A
Test Report Reference No NA/27.05.2024 (issued by ACCREDIA lab. № - CPR 21 – NB 1837

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CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

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

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

	Nennwärmeleistung Nominal heat output	Genzwert Limit	Comply
Nennwarmeleistung: kW Nominal heat output:	5.12	≥ 4	Pass
Wirkungsgrad& % Efficiency:	76.22	≥ 70	Pass
Kohlenmonoxid (CO)* mg/Nm ³ CO emission *	1484.88	≤ 1500	Pass
Staub * mg/Nm ³ Dust emission *	21.31	≤ 40	Pass

* bezogen auf 13% O₂/value at 13% O₂

24-11-11

Manager:.....


/M. Sc. L. Vasilev /

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