



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

№ДИ-163/23.06.2021

## ASSURANCE Prüfzeugnis

<b>Feuerstättenart:</b> <i>Product type:</i>	<b>Beheizung geschlossener Räume</b> Heating of closed spaces.
<b>Typ:</b> <i>Type:</i>	<b>Wohnraumheizgerät, das von Holzstämmen befeuert wird</b> Residential space heating appliance fired by wood logs
<b>Modelle:</b> <i>Model(s):</i>	<b>Assos, 5010 Olympus, 5035 Efes Classic, 5030 Efes Ceramic, 5050 Celine, 5055 Denice, 5060 Rose, 5065 Rose F</b>
<b>Hersteller:</b> <i>Mdnufacturer:</i>	<b>„Hoşseven Isı Yalıtım SAN. TIC. A.Ş ”</b> Address: Brakfakih Mahallesi 10.Caddde .№ 2 Kestel/Bursa/Turkey

**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 2<sup>nd</sup> 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 "ITEM Consult" Ltd. Sofia 1220,**  
*This Assurance is based on a Test Report issued by* **bul. Istoriq Slavqnobulgarska. № 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 240/05.03.2021 and Test Report 240 NA/05.03.2021 (issued by**  
*Test Report Reference №* **ACCREDIA lab. № - CPR 21 – NB 1837**

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

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



"ITEM - Consult" Ltd. Sofia 1220,  
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**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-164/23.06.2021

<b>Manufacturer:</b>	<b>„HOŞSEVEN ISI VE YALITIM SANAYİ TİCARET A.Ş.“</b>
<b>Appliance:</b>	<b>Solid fuel /wood / heating stove</b>
<b>Model:</b>	<b>Assos</b>
<b>Trade marks:</b>	<b>5010 Olympus, 5035 Efes Classic, 5030 Efes Ceramic, 5050 Celine, 5055 Denice, 5060 Rose, 5065 Rose F</b>
<b>Stoking mode:</b>	<b>Manual</b>
<b>Indirect heating functionality:</b>	<b>No</b>
<b>Direct heat output:</b>	<b>7.78</b>
<b>Indirect heat output:</b>	<b>-</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	66.77	17.07	3.43	860.00	75.00	-	-	-	-
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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	Nennwärmeleistung Nominal heat output	Genzwert Limit	Comply
Nennwärmeleistung: Nominal heat output:	kW 7.78	≥ 4	Pass
Wirkungsgrad & Efficiency:	% 76.77	≥ 70	Pass
Kohlenmonoxid (CO) * CO emission *	mg/Nm <sup>3</sup> 860.00	≤ 1500	Pass
Staub * Dust emission *	mg/Nm <sup>3</sup> 17.07	≤ 40	Pass

\* bezogen auf 13% O<sub>2</sub>/value at 13% O<sub>2</sub>

2021-06-23

Manager:  "ITEM Консулт" ЕООД

/M. Sc. L. Vasilev /

Dieses Prüfzertifikat ist das Ergebnis einer Prüfung eines Musters des eingereichten Produkts gemäß den Bestimmungen der spezifizierten technischen Spezifikationen/Normen. Es bedeutet keine Beurteilung der Produktion und erlaubt nicht die Verwendung eines Konformitätszeichens. Nur vollständige Reproduktionen dieses Zertifikats sind ohne schriftliche Genehmigung von "ITEM Consult" Ltd. erlaubt. Die Echtheit dieses Zertifikats und seiner Inhalte kann durch Kontaktaufnahme mit "ITEM Consult" Ltd., die für diese Konformitätserklärung verantwortlich ist, überprüft werden.

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

## EEL ASSURANCE

№DI-162/23.06.2021

Регламент/Regulation (EU) 2015/1186

Product: Solid fuel heating appliance / wood /  
Manufacturer: „Hoşseven Isı ve Yalıtım A.Ş”  
Model: Assos  
Trade marks: 5010 Olympus, 5035 Efes Classic, 5030 Efes Ceramic, 5050 Celine, 5055 Denice, 5060 Rose, 5065 Rose F  
Requested by: „Hoşseven Isı ve Yalıtım A.Ş”  
Brakfakih Mahallesi 10.Caddde .№ 2 Kestel/Bursa/Turkey

Stoking principle: Manual  
Test Fuel: Wood - oak  
Test procedure: EN 13240:2006  
Test report no: CPR 240/05.03.2021

### Fixed values:

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:

$\eta_{nominal}$  Calculated efficiency at rated heat output 76,77 [%]  
 $\eta_{minimum}$  Calculated efficiency at minimum heat output 0,00 [%]  
M Test fuel, moisture 8,49 [%]  
 $GCV_{mf}$  Test fuel, gross calorific value, moisture free 19,42 [MJ/kg]  
NCV Test fuel, net heating value, with moisture 15,87 [MJ/kg]  
 $NCV_{iwf}$  Test fuel, net heating value, moisture free 17,34 [MJ/kg]  
 $e_{l,max}$  Electric power requirement at nominal heat output' 0 [kW]  
 $e_{l,min}$  Electric power requirement at minimum heat output' 0 [kW]  
 $e_{l,SB}$  Electric power requirement in standby mode' 0 [kW]  
 $P_{nom}$  Nominal heat output 7,78 [kW]  
 $P_{min}$  Minimum heat output 0,00 [kW]

### Calculations

$\eta_{th,nom}$  Useful efficiency, at either nominal heat output 76,77 [%]  
 $\eta_{th,min}$  Efficiency at reduced output 0,00 [%]  
 $\eta_{el,n}$  Electrical efficiency of solid fuel cogeneration boiler 0,00 [%]  
 $\eta_{s,n}$  Seasonal space heating energy efficiency in active mode 76,77 [%]  
 $\eta_s$  Seasonal space heating energy efficiency 66,77 [%]  
Correction factor accounting positive contribution to the EEL of controls of indoor heating comfort, which values cannot be summed 0,0 [%]  
Correction factor accounting positive contribution to EEL of the controls for indoor heating comfort 0,0 [%]  
Correction factor accounting for a negative contribution to the EEL by auxiliary electricity consumption 0,0000 [%]

### Calculation of the Energy Efficiency index:

Energy Efficiency: 101,32  
Energy Efficiency class: A  
Energy Efficiency index (EEI):  $88 \leq EEI < 107$

Изготвил:

М. Василева



Manager:

/M. Sc. L. Vasilev /



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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
<b>Useful heat output</b>				<b>Useful efficiency</b>			
At rated heat output	$P_n$	7.78	kW	At rated heat output	$\eta_n$	76.77	%
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	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:**

Solid fuel /wood/ heating stove Assos Model 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
E-mail: info@hosseven.com.tr	HOSSEVEN ISI VE YALITIM SANAYI TICARET A.Ş., Address: Barakfakihsanayi bölgesi 10.cd No:2 Kestel/BURSA/TURKEY
Phone: : +90224 384 11 10 (4 hat)	

Prepared by:   
M. Vasileva/

Manager:   
M. Sc. L. Vasilev /  
София