

"ITEM Consult"Ltd

Sofia 1220, 8, Istoria Slavianobulgarska Blvd., Bulgaria

CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

№ДИ-202/23.06.2023

ASSURANCE

Type

Pyrolysis solid fuel boiler with manual loading

Manufacturer

"Mareli Systems" Ltd

Sofia, Lyulin district, bl. 821, ap.1

Model

LCG 40

Procedure

Testing EN 303-5:2012

Requirements

EN 303-5:2012 Class 5

TEST RESULTS

Stoking Method:

Fuel: Seasonal beech wood

boiler with manual loading

The test was conducted with seasonal beech wood (Test report for the fuel No. 10648/31.08.2022) and the following results were obtained:

Measurement		Unit	Limits
Nominal output	40.18	kW	
CO $/10\% O_2/$	140.19	mg/Nm ³	700
Dust /10% O ₂ /	5.42	mg/Nm ³	60
OGC /10% O ₂ /	3.07	mg/Nm ³	30
NOx /10% O ₂ /	192.16	mg/Nm ³	-
Efficiency	93.07	%	88.60
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Reduced output	19.76	kW	
CO /10% O2/	176.89	mg/Nm ³	700
Dust /10% O2/	7.44	mg/Nm ³	60
OGC /10% O2/	7.66	mg/Nm ³	30
NOx /10% O ₂ /	187.38	mg/Nm ³	-
Efficiency	94.52	%	88.30

<u>CONCLUSION:</u> Heating device "Pyrolysis solid fuel boiler with manual loading LCG 40" MEETS THE REQUIREMENTS OF BDS EN 303-5:2012 for CLASS 5 for the tested parameters.

The present Assurance has been issued on the basis of Test Report № 039/10.04.2023, issued by the Testing laboratory of Item Consult LTD with Certificate BSA №: 124 LI/11.02.2022 and Public Works of the Republic of Bulgaria in accordance with BS EN ISO / IEC 17025.

2023-06-23

Manager:..

София

/M. Sc. L. Vasilev