



„ITEM Consult” Ltd

Sofia 1220, 8, Istoria Slavianobulgarska Blvd., Bulgaria

CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

№ДИ-200/23.06.2023

ASSURANCE

Type	Pyrolysis solid fuel boiler with manual loading
Manufacturer	„Mareli Systems” Ltd Sofia, Lyulin district, bl. 821, ap.1
Model	LCG 22
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	22.67	kW	
CO /10% O ₂ /	130.56	mg/Nm ³	700
Dust /10% O ₂ /	10.16	mg/Nm ³	60
OGC /10% O ₂ /	11.42	mg/Nm ³	30
NOx /10% O ₂ /	187.33	mg/Nm ³	-
Efficiency	91.80	%	88.34
Reduced output	10.79	kW	
CO /10% O ₂ /	146.62	mg/Nm ³	700
Dust /10% O ₂ /	12.88	mg/Nm ³	60
OGC /10% O ₂ /	10.51	mg/Nm ³	30
NOx /10% O ₂ /	174.48	mg/Nm ³	-
Efficiency	94.92	%	88.04

CONCLUSION: Heating device „Pyrolysis solid fuel boiler with manual loading **LCG 22**” 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 № 037/28.03.2023, 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:..



/M. Sc. L. Vasilev /