



„ITEM Consult” Ltd

Sofia 1220, 8, Istorica Slavianobulgarska Blvd., Bulgaria

CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

№ДИ-203/23.06.2023

ASSURANCE

Type	Pyrolysis solid fuel boiler with manual loading
Manufacturer	„Mareli Systems” Ltd Sofia, Lyulin district, bl. 821, ap.1
Model	LCG 50
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	49.52	kW	
CO /10% O ₂ /	409.61	mg/Nm ³	700
Dust /10% O ₂ /	11.03	mg/Nm ³	60
OGC /10% O ₂ /	9.97	mg/Nm ³	30
NOx /10% O ₂ /	186.76	mg/Nm ³	-
Efficiency	91.97	%	88.70
Reduced output	23.34	kW	
CO /10% O ₂ /	162.65	mg/Nm ³	700
Dust /10% O ₂ /	16.84	mg/Nm ³	60
OGC /10% O ₂ /	3.65	mg/Nm ³	30
NOx /10% O ₂ /	151.15	mg/Nm ³	-
Efficiency	94.52	%	88.37

CONCLUSION: Heating device „Pyrolysis solid fuel boiler with manual loading **LCG 50**” 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 № 036/23.03.2023, 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 /