

GLAUBERG

Test objective:	Hygiene, health and the environment Safety and accessibility in use Energy economy and heat retention
Exact name of the test procedure:	1.4*, 1.5* - Tests of tightness, pressure resistance, thermal technical parameters, combustion efficiency, safety functions
Test method:	ČSN EN 16510-1 ed. 2:2023, Art. A.4, A.4.1, A.4.2, A.4.3, A.4.4, A.4.6, A.4.7, A.4.10.4, A.6.2.1
Sample tested:	GLAUBERG
Measuring equipment used:	see Chapter III
Date of test:	2020-06-03
Ambient conditions:	21.0 °C 44.0 % 97.6 kPa Temperature Relative humidity Barometric pressure

Variables measured and calculated: Nominal heat output	Unit	Tests n.				Limit according to:
		1	2	3	Average	ČSN EN 16510-2-1:2023
Fuel used: Beech wood	mm	330				
Combustion air setting – primary/secondary	mm	0/25.8				
Fuel consumption	kg/hour	2.5	2.5	2.4	2.5	
Achieved input	kW	10.3	10.6	10.1	10.3	
Ambient temperature in the room and combustion air temperature	°C	23	23	23	23	
Chimney draught	Pa	12	12	12	12	
Combustion product average temperature	°C	328	314	328	323	
Flue gas outlet temperature	°C	388				
CO ₂	%	11.38	11.89	10.55	11.27	
CO – measured	%	0.0817	0.0784	0.0767	0.0789	
CO – at O ₂ = 13 %	%	0.0530	0.0488	0.0533	0.0517	
CO – at O ₂ = 13 %	mg/Nm ³	662	610	667	646	≤ 1500
CO – at O ₂ = 0 %	mg/MJ	462	426	465	451	
NO _x – measured	ppm	69	71	61	67	
NO _x – at O ₂ = 13 %	mg/Nm ³	92	91	87	90	≤ 200
NO _x – at O ₂ = 0 %	mg/MJ	64	64	60	63	
OGC – measured	ppm	28	27	21	25	
OGC – at O ₂ = 13 %	mg/Nm ³	34	31	27	31	≤ 120
OGC – at O ₂ = 0 %	mg/MJ	23	22	19	21	
Chimney loss	%	21.8	20.0	23.2	21.7	
Loss of gas underburning	%	0.5	0.4	0.5	0.5	
Loss of solid underburning	%	0.5	0.5	0.5	0.5	
Efficiency	%	77.3	79.1	75.8	77.4	
Total heat capacity achieved	kW	8.0	8.4	7.6	8.0	
Uncertainty of total heat output	kW	0.3	0.3	0.3	0.3	
Nominal capacity	kW	8.0				
Mass flow rate of dry combustion products	g/s	6.3	6.2	6.6	6.4	
CO ₂	%	10.31	10.36	8.97	9.88	
Dust – measured	mg/Nm ³	28	59	29	39	
Dust – at O ₂ = 13 %	mg/Nm ³	20	42	23	28	≤ 40
Dust – at O ₂ = 0 %	mg/MJ	13	26	14	17	