

**Test Report № SFB – 09 – 2020**

**Results of determining energy efficiency classes of solid fuel boilers, according to
DELEGATED REGULATION (EU) 2015/1187**

**(without packages of a solid fuel boiler, supplementary heaters, temperature controls
and solar devices)**

Model: "PLC 35"			Serial № 12070
Fuel			Wood pellets
Heat output	nominal	kW	25
	reduced	kW	7
Seasonal space heating energy efficiency	at nominal heat output	%	88,7
	at minimum heat output	%	88,0
Electric power	at nominal heat output	kW	0,050
	at minimum heat output	kW	0,040
	in standby mode	kW	0,015
The energy efficiency index (EEI)		%	123
Energy efficiency class			A⁺

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**Summary results of the measurement and calculation
of the performance of the boiler**

Model: "PLC 35"		Serial № 12070	
Class boiler: 5			
	Unit	Date	
		Nominal heating output	Reduced heating output
Fuel	-	Wood pellets	
Fuel consumption	kg/h	6,033	1,767
The heat input	kW	28,36	8,30
The heat output (indirect / direct method)	kW	25,68 / 25,15	7,53 / 7,31
Efficiency (indirect / direct method)	%	90,56 / 88,66	90,70 / 87,98
The mean CO at 10%O ₂	mg/m ³	470	180
The mean OGC at 10%O ₂	mg/m ³	18,95	11,87
The mean value of dust at 10%O ₂	mg/m ³	16,1	23,5
Flue gases temperature	°C	119	57
Mass of the flue gases	g/s	14,82	5,12
Draught	Pa	13,0	11,0
Maximum operating pressure	bar	3,0	
The mean NOx at 10%O ₂	mg/m ³	179,24	176,32

The basic characteristics of the boiler have been tested in compliance with EN 303-5:2012 when using wood pellets, class A as fuelling in conformity with the producer's instruction for exploitation.

The requirements, given in the instruction for mounting and operation as well as all legal national norms concerning the boiler, have to be observed.

As according to the presented documents (certificates) during the pellet boiler manufacturing, materials are used which are not expected to release dangerous substances. The producer has to keep this information as a proof.

The results from the test refer only to the tested sample.

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