

# ATTESTATION

Number **WG / 2023 / 802K / 2**

**Manufacturer:** Przedsiębiorstwo Produkcyjno Handlowe Kostrzewa Spółka Jawna, ul. Przemysłowa 11A, 11-500 Giżycko

**Product:** Heating boiler for solid fuel with automatic stoking

**Trade designation:** **EEI Pellets 15**

**Fuel:** wood pellets

**Boiler category:** 1

**Condensing boiler** NO

**Test method:** PN-EN 303-5:2021-09

**Boiler class** 5

		Parameter	Symbol	Unit	Value	Criterion	
Emissions	Nominal heat output	Carbon monoxide	$E_{CO}$	$mg/m^3_n$	124,98	$\leq 500$	
		Nitrogen oxides, calculated as $NO_2$	$E_{NOx}$	$mg/m^3_n$	174,33	-	
		Organic gaseous compounds	$E_{OGC}$	$mg/m^3_n$	2,41	$\leq 20$	
		Dust	$E_{PM}$	$mg/m^3_n$	5,04	$\leq 40$	
		Carbon monoxide	$E_{CO}$	$mg/m^3_n$	423,80	$\leq 500$	
		Nitrogen oxides, calculated as $NO_2$	$E_{NOx}$	$mg/m^3_n$	151,97	-	
	Minimum heat output	Organic gaseous compounds	$E_{OGC}$	$mg/m^3_n$	16,12	$\leq 20$	
		Dust	$E_{PM}$	$mg/m^3_n$	10,52	$\leq 40$	
		Seasonal	Carbon monoxide	$E_{s,CO}$	$mg/m^3_n$	378,98	$\leq 500$
			Nitrogen oxides, calculated as $NO_2$	$E_{s,NOx}$	$mg/m^3_n$	155,32	$\leq 200$
			Organic gaseous compounds	$E_{s,OGC}$	$mg/m^3_n$	14,06	$\leq 20$
			Dust	$E_{s,p}$	$mg/m^3_n$	9,70	$\leq 40$
Heat properties	Seasonal space heating energy efficiency in active mode		$\eta_{son}$	%	86,08	-	
	Seasonal space heating energy efficiency		$\eta_s$	%	82,01	$\geq 75$	
	Nominal heat output	Generated useful heat	$P_n$	kW	14,93	-	
		Useful efficiency	$\eta_n$	%	86,50	-	
		Efficiency	$\eta_{cn}$	%	93,71	$\geq 88,18$	
	Minimum heat output	Generated useful heat	$P_p$	kW	4,24	-	
		Useful efficiency	$\eta_p$	%	86,00	-	
		Efficiency	$\eta_{cp}$	%	92,91	$\geq 87,65$	
Electrical characteristics	Auxiliary electricity consumption Load I		$el_{max}$	kW	0,037	-	
	Auxiliary electricity consumption Load II		$el_{min}$	kW	0,018	-	
	Auxiliary electricity consumption in standby mode		$P_{SB}$	kW	0,0031	-	
	Energy efficiency index		<b>EEI</b>	-	120,75	-	
	Energy efficiency class		-	-	A+	-	

\*) the emissions listed above are related to dry exhaust gas containing 10% oxygen in the normal state, at a temperature of 273.15K and a pressure of 1013.25 mbar

Comparison of the results of the completed test, registered under number B/2023/802K in the Accredited Testing Laboratory No. AB024 with the requirements of the PN-EN 303-5:2021-09 standard for Class 5 in which the requirements of Commission Regulation (EU) 2015/1189 were implemented of April 28, 2015 on the implementation of Directive 2009/125/EC of the European Parliament and of the Council and Commission Delegated Regulation (EU) 2015/1187 of 27 April 2015 with regard to the requirements for solid fuel boilers.

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THE DEPUTY MANAGING  
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Katowice, 18.08.2023 r.

Zakłady Badań i Atestacji "ZETOM" im. Prof. F. Stauba w Katowicach sp. z o.o.

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