

# ATTESTATION

Number **WG / 2023 / 804K/ 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 32**

**Fuel:** wood pellets

**Boiler category:** 1

**Condensing boiler** NO

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

**Boiler class** 5

		Paramete	Symbol	Unit	Valu	Criterion
Emissions	Nominal heat output	Carbon monoxide	$E_{CO}$	$mg/m^3_n$	124,16	$\leq 500$
		Nitrogen oxides, calculated as $NO_2$	$E_{NOx}$	$mg/m^3_n$	154,61	-
		Organic gaseous compounds	$E_{OGC}$	$mg/m^3_n$	3,26	$\leq 20$
		Dust	$E_{PM}$	$mg/m^3_n$	14,78	$\leq 40$
	Minimum heat output	Carbon monoxide	$E_{CO}$	$mg/m^3_n$	239,68	$\leq 500$
		Nitrogen oxides, calculated as $NO_2$	$E_{NOx}$	$mg/m^3_n$	140,09	-
		Organic gaseous compounds	$E_{OGC}$	$mg/m^3_n$	8,51	$\leq 20$
		Dust	$E_{PM}$	$mg/m^3_n$	17,14	$\leq 40$
	Seasonal	Carbon monoxide	$E_{s, CO}$	$mg/m^3_n$	222,35	$\leq 500$
		Nitrogen oxides, calculated as $NO_2$	$E_{s, NOx}$	$mg/m^3_n$	142,27	$\leq 200$
		Organic gaseous compounds	$E_{s, OGC}$	$mg/m^3_n$	7,72	$\leq 20$
		Dust	$E_{s, p}$	$mg/m^3_n$	16,79	$\leq 40$
Heat properties	Seasonal space heating energy efficiency in active mode		$\eta_{son}$	%	85,99	-
	Seasonal space heating energy efficiency		$\eta_s$	%	82,20	$\geq 77$
	Nominal heat output	Generated useful heat	$P_n$	kW	32,13	-
		Useful efficiency	$\eta_n$	%	86,32	-
		Efficiency	$\eta_{cn}$	%	93,48	$\geq 88,51$
	Minimum heat output	Generated useful heat	$P_p$	kW	9,22	-
		Useful efficiency	$\eta_p$	%	85,93	-
Efficiency		$\eta_{cp}$	%	92,84	$\geq 87,98$	
Electrical characteristics	Auxiliary electricity consumption Load I		$el_{max}$	kW	0,06	-
	Auxiliary electricity consumption Load II		$el_{min}$	kW	0,032	-
	Auxiliary electricity consumption in standby mode		$P_{SB}$	kW	0,0031	-
	Energy efficiency index		EEI	-	120,89	-
	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/2023/804K 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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