

ATTESTATION

Number WG / 2023 / 807K / 8

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 10

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	139,93	≤ 500	
		Nitrogen oxides, calculated as NO ₂	E_{NOx}	mg/m ³ _n	148,30	-	
		Organic gaseous compounds	E_{OGC}	mg/m ³ _n	5,20	≤ 20	
		Dust	E_{PM}	mg/m ³ _n	17,49	≤ 40	
		Carbon monoxide	E_{CO}	mg/m ³ _n	272,84	≤ 500	
		Nitrogen oxides, calculated as NO ₂	E_{NOx}	mg/m ³ _n	95,04	-	
	Minimum heat output	Organic gaseous compounds	E_{OGC}	mg/m ³ _n	8,86	≤ 20	
		Dust	E_{PM}	mg/m ³ _n	12,44	≤ 40	
		Seasonal	Carbon monoxide	$E_{s,CO}$	mg/m ³ _n	252,90	≤ 500
			Nitrogen oxides, calculated as NO ₂	$E_{s,NOx}$	mg/m ³ _n	103,03	≤ 200
			Organic gaseous compounds	$E_{s,OGC}$	mg/m ³ _n	8,31	≤ 20
			Dust	$E_{s,p}$	mg/m ³ _n	13,20	≤ 40
Heat properties	Seasonal space heating energy efficiency in active mode		η_{son}	%	85,65	-	
	Seasonal space heating energy efficiency		η_s	%	81,18	≥ 75	
	Nominal heat output	Generated useful heat	P_n	kW	10,28	-	
		Useful efficiency	η_n	%	86,62	-	
		Efficiency	η_{cn}	%	93,61	≥ 88	
	Minimum heat output	Generated useful heat	P_p	kW	2,30	-	
		Useful efficiency	η_p	%	85,48	-	
		Efficiency	η_{cp}	%	93,40	≥ 87,48	
Electrical characteristics	Auxiliary electricity consumption Load I		$e_{l,max}$	kW	0,034	-	
	Auxiliary electricity consumption Load II		$e_{l,min}$	kW	0,014	-	
	Auxiliary electricity consumption in standby mode		P_{SB}	kW	0,0028	-	
	Energy efficiency index		EEI	-	119,72	-	
	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/2023/807K 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.

KIEROWNIK PRACOWNI
URZĄDZEŃ GRZEWCZYCH

Bartosz Węcki
dr inż. Bartosz Węcki



Z-CA DYREKTORA
ZARZĄDZAJĄCEGO

Maciej Jodkowski
dr inż. Maciej Jodkowski

Katowice, 21.08.2023 r.

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