

# ATTESTATION

Number **WG / 2025 / 399K**

**Manufacturer:** Mareli Systems LTD, Lyulin, bl.821, ap.1: Sofia 1336 Bulgaria

**Product:** Solid fuel heating boiler with automatic fuel feeding

**Trade designation:** **UnicPel 12 heat output 12 kW**

**Fuel:** Wood pellets

**Boiler category:** 1

**Condensing boiler** NO

**Test method:** PN-EN 303-5:2021+A1:2023-05

**Boiler class** 5

		Parametr	Unit	Valu	Criterion	Kryterium
Emissions	Rated output	Carbon monoxide	$E_{CO}$	$mg/m^3_n$	344,92	$\leq 500$
		Nitrogen oxides, calculated as $NO_2$	$E_{NOx}$	$mg/m^3_n$	180,64	-
		Organic gaseous compounds	$E_{OGC}$	$mg/m^3_n$	15,90	$\leq 20$
		Dust	$E_{PM}$	$mg/m^3_n$	17,41	$\leq 40$
	Minimum output	Carbon monoxide	$E_{CO}$	$mg/m^3_n$	323,26	$\leq 500$
		Nitrogen oxides, calculated as $NO_2$	$E_{NOx}$	$mg/m^3_n$	178,15	-
		Organic gaseous compounds	$E_{OGC}$	$mg/m^3_n$	16,90	$\leq 20$
		Dust	$E_{PM}$	$mg/m^3_n$	18,98	$\leq 40$
	Seasonal	Carbon monoxide	$E_{s,CO}$	$mg/m^3_n$	326,51	$\leq 500$
		Nitrogen oxides, calculated as $NO_2$	$E_{s,NOx}$	$mg/m^3_n$	178,52	$\leq 200$
		Organic gaseous compounds	$E_{s,OGC}$	$mg/m^3_n$	16,75	$\leq 20$
		Dust	$E_{s,p}$	$mg/m^3_n$	18,74	$\leq 40$
Heat properties	Seasonal space heating energy efficiency in active mode		$\eta_{son}$	%	83,61	-
	Seasonal space heating energy efficiency		$\eta_s$	%	79,60	$\geq 75$
	Rated output	Generated useful heat	$P_n$	kW	12,10	-
		Useful efficiency	$\eta_n$	%	84,48	-
		Efficiency	$\eta_{cn}$	%	91,94	$\geq 88,08$
	Minimum output	Generated useful heat	$P_p$	kW	3,52	-
		Useful efficiency	$\eta_p$	%	83,46	-
		Efficiency	$\eta_{cp}$	%	90,71	$\geq 87,56$
Electrical characteristics	Auxiliary energy consumption, rated output		$e_{l,max}$	kW	0,025	-
	Auxiliary energy consumption, minimum output		$e_{l,min}$	kW	0,015	-
	Auxiliary energy consumption, standby mode		$P_{SB}$	kW	0,0022	-
	Boiler energy efficiency index		EEI	-	117,23	-
	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/2025/399K in the Accredited Testing Laboratory No. AB024 with the requirements of the PN-EN 303-5:2021+A1:2023-05 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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Katowice, 28.08.2025

Prof. F. Staub Research and Attestation Plant "ZETOM" in Katowice sp. z o.o.