

# ATTESTATION

Number WG / 2025 / 393K

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

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

**Trade designation:** UnicPel 24 heat output 24 kW

**Fuel:** Wood pellets

**Boiler category:** 1

**Condensing boiler** NO

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

**Boiler class** 5

		Parame	Unit	Valu	Criterion	Kryterium
Emissions	Rated output	Carbon monoxide	$E_{CO}$	$mg/m^3_n$	290,46	$\leq 500$
		Nitrogen oxides, calculated as $NO_2$	$E_{NOx}$	$mg/m^3_n$	159,10	-
		Organic gaseous compounds	$E_{OGC}$	$mg/m^3_n$	14,40	$\leq 20$
		Dust	$E_{PM}$	$mg/m^3_n$	14,58	$\leq 40$
	Minimum output	Carbon monoxide	$E_{CO}$	$mg/m^3_n$	357,95	$\leq 500$
		Nitrogen oxides, calculated as $NO_2$	$E_{NOx}$	$mg/m^3_n$	156,25	-
		Organic gaseous compounds	$E_{OGC}$	$mg/m^3_n$	15,46	$\leq 20$
		Dust	$E_{PM}$	$mg/m^3_n$	19,18	$\leq 40$
	Seasonal	Carbon monoxide	$E_{s,CO}$	$mg/m^3_n$	347,83	$\leq 500$
		Nitrogen oxides, calculated as $NO_2$	$E_{s,NOx}$	$mg/m^3_n$	156,68	$\leq 350$
		Organic gaseous compounds	$E_{s,OGC}$	$mg/m^3_n$	15,31	$\leq 20$
		Dust	$E_{s,p}$	$mg/m^3_n$	18,49	$\leq 40$
Heat properties	Seasonal space heating energy efficiency in active mode		$\eta_{son}$	%	85,20	-
	Seasonal space heating energy efficiency		$\eta_s$	%	81,65	$\geq 77$
	Rated output	Generated useful heat	$P_n$	kW	24,17	-
		Useful efficiency	$\eta_n$	%	85,88	-
		Efficiency	$\eta_{cn}$	%	92,71	88,38
	Minimum output	Generated useful heat	$P_p$	kW	6,76	-
		Useful efficiency	$\eta_p$	%	85,08	-
		Efficiency	$\eta_{cp}$	%	91,86	87,86
Electrical characteristics	Auxiliary energy consumption, rated output		$el_{max}$	kW	0,0295	-
	Auxiliary energy consumption, minimum output		$el_{min}$	kW	0,0130	-
	Auxiliary energy consumption, standby mode		$P_{SB}$	kW	0,0031	-
	Boiler energy efficiency index		EEl	-	119,99	-
	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 determined by interpolation on the basis of tests performed, registered under numbers B/2025/225K and B/2025/240K in Accredited Testing Laboratory No. AB024 with the requirements given in the PN-EN 303-5:2021+A1:2023-05 standard for Class 5, which implements the requirements of Commission Regulation (EU) 2015/1189 of 28 April 2015 implementing 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 requirements for solid fuel boilers.

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Katowice, 21.07.2025

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

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