

ECOLOGICAL BOILER FOR SOLID FUELS

CLASS „B”



Certificate no. 787

Customer: ZAKŁAD METALOWO-KOTLARSKI „SAS”
28-100 Busko-Zdrój, Owczary, ul. Przemysłowa 3

Construction: Heating boiler with hand fuel feeding system

Type of boiler: „SAS UWG/UWT” output range 9 + 200 kW

Fuel: Hard coal type 31.2 (nut coal)

Boiler energy and emission characteristic (tested output range)

	Parameter	Unit	Achieved values	Criteria
THERMAL EFFICIENCY	Relative thermal load (with respect to nominal output)	%	100±8	-
	Boiler energy efficiency	%	79,1 + 86,1	≥ 75
EMISSION INDICES	CO	mg/m ³	2200 + 3250	≤ 5000
	NO ₂	mg/m ³	190 + 315	≤ 400
	Dust	mg/m ³	20 + 85	≤ 200
	TOCs	mg/m ³	25 + 105	≤ 150
	16 PAHs acc. to EPA Ind. B(a)P	mg/m ³ µg/m ³	0,03 + 0,7 0,5 + 57,6	≤ 15 ≤ 150

FINAL STATEMENT:

Tested boilers fulfill IChPW criteria for „ecological safety sign” for solid fuels boilers in class „B”

Energy and emission indices were elaborated acc. to standard PN-EN 303-5:2002 chapter 5.7-5.10 and technical procedures of IChPW Laboratory of Combustion no. Q/ZS/P/15/01/A and Q/ZS/P/15/02/A

Certificate loses its validity in case of changes in the production phase which can have influence on emission indices or boiler energy efficiency.

DIRECTOR OF CIT

Jacek Zawistowski PhD

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DIRECTOR OF INSTITUTE

Marek Ściażko PhD



INSTITUTE FOR CHEMICAL PROCESSING OF COAL

Zamkowa 1 str., 41-803 Zabrze; phone. (32) 271 00 41; fax (32) 271 08 09; web: www.ichpw.zabrze.pl



GROUP OF ICHPW LABORATORIES
CERTIFICATE of ACCREDITATION PCA No AB 081
in range of energy and emission testing of solid fuels and boilers