

Certified translation from the Polish language:-----



INSTITUTE OF POWER ENGINEERING

Research Institute
Notified Body No. 1452

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BOILERS AND HEATING EQUIPMENT RESEARCH LABORATORY

[CUE]

Accredited laboratory No. AB 087

93-231 Łódź, ul. Dostawcza 1 tel. (042) 64 00 821 fax (042) 64 00 828

ENVIRONMENTALLY FRIENDLY DEVICE

CERTIFICATE

Nr OS/171/CUE/14

confirms that:

Water Boiler Maxi Bio 50

with automatic fuel supply,
50 kW nominal power, burning wood pellets

Symbols: PKWiU 28.22.12-00.50

PN-EN 303-5: 2012

manufactured by

PPH Kostrzewa Sp.j.

11-500 Giżycko, ul. Suwalska 32A

meets the requirements for the environment protection set out in **Technical Criteria:**

KT/OS 01-2005

The tested device, in accordance with PN-EN 303-5:2012, is classified as class 5

The certificate has been issued on the basis of the results of laboratory research conducted by: Boilers and Heating Equipment Research Laboratory in Łódź: Dostawcza 1 - presented in research report: No. 29/13-LG : Type examinations of boilers Maxi Bio 50, 100, 200 and 285 with automatic fuel supply and burning wood pellets. Type examination of boiler Maxi Bio 50.

The certificate retains validity provided the manufacturer does not make any technical changes to the tested devices without earlier agreement with the Laboratory issuing this certificate.

**Certificate validity period
from August 2014 to August 2017**

Head of
Boilers and Heating Equipment Research
Laboratory
[hand-written signature]
(signature)

Head of
Power Engineering Equipment Research
Department
[hand-written signature]
(signature)

Łódź; 20/08/2014



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CERTIFICATE No. OS/171/CUE/14

The tested device (boiler **Maxi Bio 50**), in accordance with
PN-EN 303-5:2012, is classified as class 5

Parameter	Unit	Obtained value	Requirements of the standards and regulations	
Wood pellets Stelmet-“Lava” ϕ 6 mm				
Fuel	Q_d^r	MJ/kg	19.3	> 17
	Q_i^r	MJ/kg	18.3	no requirements
	A^r	%	0.3	≤ 0.5
	W^r	%	5.5	≤ 12
Thermal power	kW	51.3	$\geq Q_N$	
Efficiency η	%	89.4	≥ 88.7 for 50 kW	
Emission ^{x)}	CO	mg/m ³	123	≤ 500
	OGC	mg/m ³	3	≤ 20
	Dust	mg/m ³	16	≤ 40
$T_{sp_{av}}$	°C	161	300 ^{xx)}	
Flue gas stream	g/s	33	no requirements	

x) expressed as 10% oxygen content in dry flue gas

xx) maximal instantaneous flue gas temperature

Łódź: 20/08/2014

I, Marek Kądzielski, the undersigned duly commissioned Sworn Translator of the English language, in Warsaw Poland, do hereby certify the conformity of this true translation version with the original document in Polish presented to me on this fifth day of September, A.D. 2014.----

Warsaw, dated 5th September, 2014.-----

Repertorium nr 792/2014.-----

Pobrano opłatę zgodnie z obowiązującą taksą za trzy (3) strony uwierzytelnione.-----

Marek Kądzielski

