



RHI emissions certificate (RHI-ec)

Certificate Number: SZUBR001; Date: 2013-09-16

Lab No/Accreditation Number
No 347/2013 of 2013-06-24 (current).
No 321/2012 of 2012-05-29 (previous)

Lab Accreditation Date
No 347/2013 of 2013-06-24 (current).
No 321/2012 of 2012-05-29 (previous)

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Authorised personnel:
Position in laboratory:

Milan Holomek
Head of Heat and Environment-
Friendly Equipment Test Station

Signature:

Date of test:

09/09/2013

1. Work Undertaken

i.	Name of the plant tested	Passat Energy biomass boiler
ii.	Model of the plant tested	HO 180
iii.	Manufacturer of the plant tested	Passat Energy, Vestergade 36 orum 8830 Tjele Denmark
iv.	Installation capacity of the plant in kilowatts (kW)	199kW
v.	Is the plant a manually stoked, natural draught plant? (that is, without a fan providing forced or induced draught)	No, automatic boiler
vi.	The date the plant was tested	09/09/2013
vii.	List of all the plants in the type-testing range of plants to which the certificate applies, if any	HO180, HO250, HO300

2. FUELS

i.	Types of fuels used when testing	Wood pellet
ii.	Based on the testing, list the range of fuels that can be used in compliance with the emission limits of 30 grams per gigajoule (g/GJ) net heat input for particulate matter (PM), and 150 g/GJ net heat input for oxides of nitrogen (NOx) (based if relevant on classifications from EN14961 or EN303-5)	Wood pellet
iii.	Moisture content of the fuel used during testing	8.09%
iv.	Maximum moisture content of the fuel which can be used so as to ensure that the emission limits are not exceeded	12 %

3. TESTS

i.	If the plant is 500kW or lower, and BS EN 303-5:1999 or EN 303-5:2012 applies to it, please confirm:- tests were conducted to whichever standard was current at the time of testing.	BS EN 303-5:1999: no BS EN 303-5:2012: yes
ii.	If the plant is 500kW or lower, and BS EN 303-5:1999 or BS EN 303-5:2012 <u>do not apply to it</u> , please confirm:- emissions of PM represent the average of at least three measurements, each of at least 30 minutes duration and;	not applicable
iii.	the value for NOx emissions is derived from the mean of measurements made throughout the PM tests.	not applicable
iv.	If the plant is 500kW or higher, please confirm: emissions of PM represent the average of at least three measurements, each of at least 30 minutes duration and;	not applicable
v.	- the value for NOx emissions is derived from the mean of PM measurements made throughout the PM tests.	not applicable
vi.	please confirm the tests were conducted to: EN 14792:2005 in respect of NOx, and;	yes
vii.	EN 13284-1:2002 or ISO 9096:2003 in respect of PM	yes
viii.	please confirm the plant tested at ≥85% of its rated output	yes
ix.	please confirm the tests show that emissions were no greater than 30 g/GJ PM and 150 g/GJ NOx	yes
x.	measured emissions of PM in g/GJ net heat input	PM=22g/GJ
xi.	measured emissions of NOx in g/GJ net heat input	NOx=78g/GJ

16.9.2013

Date, signed



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Passat Energy A/S
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Denmark

VÁŠ DOPIS ZNAČKY / ZE DNE

NAŠE ZNAČKA

VYŘIZUJE / TELEFON

V BRNĚ DNE

0211-Ha/5320

Holomek / 330

2013-09-30

Declaration of attainment measurement and evaluation according EN 14792:2005, EN 13284-1:2002, ISO 9096:2003 (SZU 31-9324)

The Engineering Test Institute, Public Enterprise, represented by Mr. Milan Holomek, Head of Heat and Environment-Friendly Equipment Test Station, hereby confirms that the product:

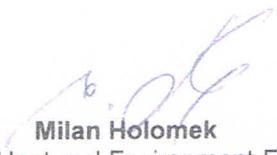
Hot-water boiler burning solid fuels with automatic fuel supply, type:

HO 180

meets the measurement and evaluations according to EN 14792:2005, EN 13284-1:2002, ISO 9096:2003.

(appendix of CERTIFICATE OF ACCREDITATION No. 347/2013).

Yours sincerely



Milan Holomek

Head of Heat and Environment-Friendly
Equipment Test Station

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