

Renewable Heat Incentive Emissions Certificate

for Particulate Matter and Oxides of Nitrogen

Issued by Kiwa Ltd t/a Kiwa GASTEC at CRE

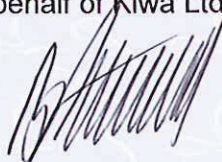
Certificate number RHI 30338-4
Issue date 08 October 2013
Test report numbers 60265
Boiler models E-Compact Slim 18

Manufacturer name and address

Suirvale Developments Ltd t/a Wood Energy Solutions
Donaskeigh
Tipperary
Co. Tipperary
Ireland

Kiwa Ltd declares that the solid fuel boiler(s) detailed above meet(s) the emission limits of 30g/GJ for particulate matter and 150g/GJ for NO_x as stated by Defra, and as such the emissions are within the acceptable limit for the appliance to be used in installations wishing to claim the Renewable Heat Incentive.

Signed on behalf of Kiwa Ltd



Mr A J Pittaway – Authorised Signatory
08 October 2013

GASTEC
at **CRE**

Kiwa GASTEC at CRE
The Orchard Business Centre
Stoke Orchard, Cheltenham
GL52 7RZ, UK

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Renewable Heat Incentive

Non-domestic Renewable Heat Incentive Emissions Certificate

This certificate provides evidence that the tested boiler meets the air quality requirements of the non-domestic Renewable Heat Incentive (RHI). It must be issued by a testing laboratory. Applicants applying for the RHI with biomass boilers must submit a certificate with their application, or alternatively, an environmental permit.

1. TEST HOUSE	
a) name and address of testing laboratory	Kiwa Ltd t/a Kiwa GASTEC at CRE Orchard Business Centre Stoke Orchard Cheltenham Gloucestershire GL52 7RZ
b) name and signature of the person authorised by the testing laboratory to issue the certificate	Mr A J Pittaway
c) date of issue of the certificate together with certificate reference number	Date of issue: 08 October 2013 Certificate no: RHI 30338-4
d) if testing laboratory is accredited to ISO 17025, date of accreditation and accreditation number <i>(note: if testing conducted after 24 September 2013, the testing laboratory must be ISO 17025 accredited)</i>	Accreditation date: 17 January 1991 Accreditation number: 0692
2. PLANT	
a) name of the plant tested	E-Compact Slim
b) model of the plant tested	18
c) manufacturer of the plant tested	Suirvale Developments Ltd t/a Wood Energy Solutions
d) installation capacity of the plant in kilowatts (kW)	18
e) is the plant a <u>manually stoked</u> , natural draught plant? (that is, without a fan providing forced or induced draught)	No
f) the date the plant was tested	06 September 2013
g) list of all the plants in the type-testing range of plants to which the certificate applies, if any	N/A

**Appendix to
Renewable Heat Incentive Emissions Certificate**

Certificate Number: RHI 30338-4

3. FUELS	
a) types of fuels used when testing	Wood pellets
b) 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 pellets <i>Based on compressed wood (category C) classification from BS EN 303-5</i>
c) moisture content of the fuel used during testing	6.4%
d) maximum moisture content of the fuel which can be used so as to ensure that the emission limits are not exceeded	12% <i>Based on compressed wood (category C) classification from BS EN 303-5</i>

4. TESTS	
a) 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 303-5:2012: Yes
b) 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; - the value for NOx emissions is derived from the mean of measurements made throughout the PM tests.	Not applicable Not applicable
c) 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; - the value for NOx emissions is derived from the mean of PM measurements made throughout the PM tests.	Not applicable Not applicable
d) please confirm the tests were conducted to: - EN 14792:2005 in respect of NOx, and; - EN 13284-1:2002 or ISO 9096:2003 in respect of PM	Not applicable Not applicable
e) please confirm the plant tested at ≥85% of its rated output	Yes
f) please confirm the tests show that emissions were no greater than 30 g/GJ PM and 150 g/GJ NOx	Yes
g) measured emissions of PM in g/GJ net heat input	17.2
h) measured emissions of NOx in g/GJ net heat input	89.0