


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	Danish Technological Institute Kongsvang Allé 29 8000 Aarhus C Denmark
b) name and signature of the person authorised by the testing laboratory to issue the certificate	Anette Brønnum 
c) date of issue of the certificate together with certificate reference number	RHI-v1-300-ELAB-1560 2013.12.19
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>	1993.07.09 DANAK No.300

2. PLANT	
a) name of the plant tested	EkoHeat
b) model of the plant tested	EkoHeat 2500
c) manufacturer of the plant tested	Ekopower ApS
d) installation capacity of the plant in kilowatts (kW)	24.9
e) is the plant a <u>manually stoked, natural draught</u> plant? (that is, without a fan providing forced or induced draught)	No
f) the date the plant was tested	2011.09.21
g) list of all the plants in the type-testing	-

range of plants to which the certificate applies, if any ¹	
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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) <i>(based if relevant on classifications from EN14961 or EN303-5)</i>	Wood pellets
c) moisture content of the fuel used during testing	6.5 %
d) maximum moisture content of the fuel which can be used so as to ensure that the emission limits are not exceeded	Wood pellets: ≤10 %

4. TESTS	
a) if the plant is 500kW or lower, and BS EN 303-5:1999 or EN 303-5:2012² applies to it , please confirm: - tests were conducted to whichever standard was current at the time of testing. <i>(please circle the applicable standard)</i>	BS EN 303-5:1999
b) if the plant is 500kW or lower, and BS EN 303-5:1999 or BS EN 303-5:2012 do not apply to it , 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 ³	yes yes
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

¹ The type-testing approach enables testing laboratories to provide assurance that all boilers in a given range meet the air quality requirements, without needing to specifically test each boiler.

² BS EN303-5:1999 and 2012 explain what should be measured and when.

³ These standards explain how to make the PM and NOx measurements.

g) measured emissions of PM in g/GJ net heat input	8
h) measured emissions of NOx in g/GJ net heat input	80