

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) – Reg 5A(3) and Schedule A1. 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	The Engineering Test Institute, Public Enterprise Hudcova 424/56b, 621 00 Brno, Czech Republic tel.: 00420 541 120 330 e-mail.: holomek@szutest.cz web: www.szutest.cz
b) name and signature of the person authorised by the testing laboratory to issue the certificate	Name: Mr. Milan Holomek Head of Heat and Environment-Friendly Equipment Test Station Signature:
c) date of issue of this certificate together with certificate reference number *Please see Note A	Date: 08/09/2015 Ref: SZUBR177
d) if testing laboratory is accredited to BS EN ISO/IEC 17025:2005, date of accreditation and accreditation number (note: if testing conducted after 24 September 2013, the testing laboratory must be BS EN ISO/IEC	Date: 16/06/2015 Accreditation number: 447/2015
17025:2005 accredited)	

2. PLANT Please see Note B	
a) name of the plant tested	HAMONT (USD, USV, USZI) – (S1)
b) model of the plant tested	HAMONT 40 (USD, USV, USZI) – (S1) HAMONT 80 (USD, USV, USZI) – (S1) HAMONT 100 (USD, USV, USZI) – (S1) HAMONT 101 (USD, USV, USZI) – (S1)
c) manufacturer of the plant tested	CSTfire s.r.o. Výstavní 2937/132A 703 00 Ostrava-Vítkovice Czech Republic

d) installation capacity* of the tested plant in kilowatts (kW) *defined in the RHI Regulations as the total installed peak heat output capacity of the plant e) is the plant a manually stoked, natural draught	HAMONT 40 (USD, USV, USZI) – (S1) – 40kW HAMONT 80 (USD, USV, USZI) – (S1) – 80kW HAMONT 100 (USD, USV, USZI) – (S1) – 100kW HAMONT 101 (USD, USV, USZI) – (S1) – 101kW
plant? (that is, without a fan providing forced or induced draught)	No, automatic
f) (i) the date the plant was tested* (ii) please confirm that NOx and PM have been tested on the same occasion *This is in reference to the emissions testing for PM and NOx, not any wider range of tests. A specific date is required.	Date: 20/09/2013 yes
g) list of all the plants in the type-testing range* of plants to which the certificate applies, if any¹ Please include the installation capacity of each model. *This must follow the ratio rules: If the smallest plant in the range is 500kW or less, the largest plant in the range can't be more than double the smallest. If the smallest plant in the range is over 500kW, the largest plant in the range can't be more than 500kW greater than the smallest.	HAMONT 40 (USD, USV, USZI) – (S1) – 40kW HAMONT 49 (USD, USV, USZI) – (S1) – 49kW HAMONT 60 (USD, USV, USZI) – (S1) – 60kW HAMONT 80 (USD, USV, USZI) – (S1) – 80kW HAMONT 99 (USD, USV, USZI) – (S1) – 99kW HAMONT 100 (USD, USV, USZI) – (S1) – 100kW HAMONT 101 (USD, USV, USZI) – (S1) – 101kW

a) types of fuels used when testing	Wood pellets, Wood chips
b) based on the testing, list the range of fuels that can be used in	Wood pellets
compliance with the emission limits of 30 grams per gigajoule (g/GJ)	according to
net heat input for particulate matter (PM), and 150 g/GJ net heat input for oxides of nitrogen (NOx)	EN 303-5:2012: C1
(based if relevant on classifications from EN14961 or EN303-5)	Wood chips
	according to
	EN 303-5:2012: B1
c) moisture content of the fuel used during testing	Wood pellets – 7.52 %
5 5	Wood chips – 18.73 %
d) maximum moisture content of the fuel which can be used with the	Wood pellets – 12 %
certified plant(s) so as to ensure that the RHI emission limits are not exceeded.	Wood chips – 35 %

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.

4. TESTS Confirm which requirements the emissions of NOx and PM have been to	tested in accordance with Fither 4a
4b should be confirmed, the other should be 'not applicable'	ested in accordance with.
a) if the testing was carried out in accordance with the	DO EN 000 5 0040
provisions relevant to emissions of PM and NOx in either BS EN	BS EN 303-5:2012
303-5:1999 or BS EN 303-5:2012 ² , please confirm:	(ČSN EN 303-5:2013)
- the test was conducted to whichever standard was current at the	
time of testing.	Yes
b) if the testing was carried out in accordance with the following	
requirements, please confirm:	
(i) testing was carried out in accordance with:	
- EN 14792:2005 in respect of NOx emissions, and;	
- EN 13284-1:2002 or ISO 9096:2003 in respect of PM emissions ³ ;	
and	
	not applicable
(ii) emissions of PM represent the average of at least three	
measurements of emissions of PM, each of at least 30 minutes	
duration; and	not applicable
	i i i i i i i i i i i i i i i i i i i
(iii) the value for NOx emissions is derived from the average of	
measurements made throughout the PM emission tests.	
measurements made throughout the 1 M emission tests.	
c) please confirm the plant was tested at ≥85% of the installation	
capacity of the plant	yes
oupdoily of the plant	yes
d) please confirm the test shows that emissions from the plant were	
no greater than 30 g/GJ PM and 150 g/GJ NOx	yes
e) measured* emissions of PM in g/GJ net heat input	Wood pellets:
*this value should be from the test confirmed in 4c. Results from	HAMONT 40 USV - (S1) - 19 g/GJ
partial load tests are not required.	HAMONT 80 USV - (S1) - 17 g/GJ
This value must be in the specified units.	HAMONT 100 USV - (S1) - 18 g/G
	HAMONT 101 USV - (S1) - 18 g/G
	Wood chips:
	HAMONT 40 USV - (S1) - 19 g/GJ
	HAMONT 80 USV - (S1) - 20 g/GJ
	HAMONT 100 USV - (S1) - 18 g/G
	HAMONT 101 USV - (S1) - 18 g/G
f) measured* emissions of NOx in g/GJ net heat input	Wood pellets:
*this value should be from the test confirmed in 4c. Results from	HAMONT 40 USV - (S1) - 70 g/GJ
partial load tests are not required.	HAMONT 80 USV - (S1) - 83 g/GJ
This value must be in the specified units.	HAMONT 100 USV - (S1) - 81 g/G
	HAMONT 101 USV - (S1) - 81 g/G
	Wood chips:
	HAMONT 40 USV - (S1) - 115 g/G
	HAMONT 80 USV - (S1) - 116 g/G
	HAMONT 100 USV - (S1) - 116 g/9
	HAMONT 101 USV - (S1) - 116 g/g

Note A: If details from a previously issued certificate are being transferred to this RHI emission certificate template, please note that this document must be issued by the testing laboratory as a separate certificate. So the issue date and certificate reference number should be in relation to this certificate using the RHI template, not the issue date and reference number of the original certificate.

Note B: If you are including multiple tested plants on one certificate, please ensure that all sections are completed for each tested plant, and are laid out such that it is clear which details relate to which tested plant. If a type-testing range is included as well, please show clearly which type-testing range relates to which tested plant(s), following the type-testing range ratio rules outlined in 2g.

BS EN303-5:1999 and 2012 explain what should be measured and when.
 These standards explain how to make the PM and NOx measurements.