

# 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.

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| <b>1. TEST HOUSE</b>                                                                                                                                                                                                                                  |                                                                                                                                              |
| a) name and address of testing laboratory                                                                                                                                                                                                             | Environmental Scientifics Group Limited<br>Unit 5 Crown Industrial Estate<br>Kenwood Road<br>Stockport<br>SK5 6PH<br>Tel: 00 44 161 443 0980 |
| b) name and signature of the person authorised by the testing laboratory to issue the certificate                                                                                                                                                     | Name: Dave Armitage                                                                                                                          |
|                                                                                                                                                                                                                                                       | Signature:                                               |
| c) date of issue of this certificate together with certificate reference number *Please see Note A                                                                                                                                                    | Date: 10 <sup>th</sup> December 2018                                                                                                         |
|                                                                                                                                                                                                                                                       | Ref: LNO 11741/v7b                                                                                                                           |
| d) if testing laboratory is accredited to BS EN ISO/IEC 17025:2005, date of accreditation and accreditation number<br>(note: if testing conducted after 24 September 2013, the testing laboratory <b>must</b> be BS EN ISO/IEC 17025:2005 accredited) | Date: 11/12/1992                                                                                                                             |
|                                                                                                                                                                                                                                                       | Accreditation number: 1015                                                                                                                   |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <b>2. PLANT</b><br>Please see Note B                                                                                                                                    |                   |
| a) name of the plant tested                                                                                                                                             | Glen Farrow GF175 |
| b) model of the plant tested                                                                                                                                            | GF175             |
| c) manufacturer of the plant tested                                                                                                                                     | Glen Farrow       |
| d) installation capacity* of the <b>tested</b> plant in kilowatts (kW)<br>*defined in the RHI Regulations as the total installed peak heat output capacity of the plant | 175kW             |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| e) is the plant a <u>manually stoked, natural draught</u> plant? (that is, without a fan providing forced or induced draught)                                                                                                                                                                                                                                                                                                                                                                             | No                                                                                     |
| f) (i) the date the plant was tested*<br>(ii) please confirm that NO <sub>x</sub> and PM have been tested on the same occasion<br>*This is in reference to the emissions testing for PM and NO <sub>x</sub> , not any wider range of tests. A specific date is required.                                                                                                                                                                                                                                  | 11/03/2014 - 13/03/2014<br><br>Yes, NO <sub>x</sub> and PM tested on the same occasion |
| g) list of all the plants in the type-testing range* of plants to which the certificate applies, if any <sup>1</sup> Please include the <b>installation capacity</b> of each model.<br><i>*This must follow the ratio rules:<br/>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.<br/>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.</i> | Glen Farrow GF195<br>Glen Farrow GF210<br>Glen Farrow GF295                            |

### 3. FUELS

|                                                                                                                                                                                                                                                                                                                               |                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| a) types of fuels used when testing                                                                                                                                                                                                                                                                                           | Mixed logs with moisture content of 17 – 23 % based on category A1 classification according to EN14961-5 |
| 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 (NO <sub>x</sub> )<br>(based if relevant on classifications from EN14961 or EN303-5) | Mixed Logs with moisture content of 17-23% based on category A1 classification according to EN14961-5    |
| c) moisture content of the fuel used during testing                                                                                                                                                                                                                                                                           | Wood Logs 14-23% - EN 14961-5                                                                            |
| d) maximum moisture content* of the fuel which can be used with the certified plant(s) so as to ensure that the RHI emission limits are not exceeded.<br>*This value may be obtained from ranges specified in EN 303-5 based on the fuel type(s) tested                                                                       | Wood Logs - 23% - EN 14961-5                                                                             |

### 4. TESTS

Confirm which requirements the emissions of NO<sub>x</sub> and PM have been tested in accordance with.  
**Either 4a or 4b should be confirmed, the other should be 'not applicable'**

<sup>1</sup> 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.



