

### The GlenFarrow GF210 Biomass Boiler

#### RHI non-domestic payback calculations example

(Based on Ofgem Guidance, published April 2018 - effective from 1st April 2018)

#### GlenFarrow GF210 Biomass Boiler

A	Boiler rating (peak output)	210 kW
B	Tier 1 rate	£0.0305
C	Tier 2 Rate	£0.0214
D	Load factor	40%
E	Hours per year	8,760
F	Load factor per year	3,504
G	Annual usage kWh	735,840
H	Tier 1 break point	3,066
I	Maximum tier	643,860
J	RHI tier 1 payment	£19,637.73
K	Tier 2 start point	91,980
L	RHI tier 2 payment	£1,968.37
<b>M</b>	<b>Annual RHI payment</b>	<b>£21,606.10</b>

The information in this table is based on the boiler being operated at its peak output and is for illustrative purposes only.

It is based on Ofgem guidance published April 2018. 210 kW is the boiler's peak output and the actual operating output will vary due to the nature of batch-fed boilers.

#### For a GlenFarrow GF210 Biomass Boiler at a load factor of 40%, the annual RHI received will be:

- A Boiler rating in kilowatts
- B Tier 1 payment tariff set @ £0.0305 per kilowatt of energy used
- C Tier 2 payment tariff set @ £0.0214 per kilowatt of energy used
- D Load factor of 40% is an average (dependent upon demand of installation this could range from 15% to 55%)
- E Hours per year (24hrs x 365 days = 8,760 hrs)
- F Load factor per year D x E (40% x 8,760 = 3,504 hrs)
- G Annual usage kWh F x A (3,504 x 210 = 735,840 kWh)
- H Tier 1 break point is set @ 3,066 hours per year of operation
- I Maximum kWh tier 1 A x H (210 x 3,066 = 643,860 kWh)
- J RHI maximum tier 1 annual payment B x I (£0.0305 x 643,860 = £19,637.73)
- K Tier 2 start point G - I (735,840 - 643,860 = 91,980 kWh)
- L RHI tier 2 annual payment C x K (£0.0214 x 91,980 = £1,968.37)
- M RHI annual payment J + L (£19,637.73 + £1,968.37 = £21,606.10)**

Emissions, Planning and Legislation: GlenFarrow Biomass Boilers are not approved for UK smoke control areas. It is always the customer's responsibility to check for planning regulations, requirements and any other relevant legislation. | DISCLAIMER: Glen Farrow UK Ltd disclaims any liability incurred with the use of this data or specific details. The reader should consult the official documentation available on [www.decc.gov.uk](http://www.decc.gov.uk) and [www.ofgem.gov.uk](http://www.ofgem.gov.uk) and [www.parliament.uk](http://www.parliament.uk) | All information correct at time of printing (April 2018). Glen Farrow UK Ltd disclaims any liability incurred with the use of data provided by Ofgem and DECC regarding the Renewable Heat Incentive Scheme.

## The GlenFarrow GF295 Biomass Boiler

### RHI non-domestic payback calculations example

(Based on OFGEM Guidance, published April 2018 - effective from 1st April 2018)

#### GlenFarrow GF295 Biomass Boiler

A	Boiler rating (peak output)	295 kW
B	Tier 1 rate	£0.0305
C	Tier 2 Rate	£0.0214
D	Load factor	40%
E	Hours per year	8,760
F	Load factor per year	3,504
G	Annual usage kWh	1,033,680
H	Tier 1 break point	3,066
I	Maximum tier	904,470
J	RHI tier 1 payment	£27,586.33
K	Tier 2 start point	129,210
L	RHI tier 2 payment	£2,765.09
M	<b>Annual RHI payment</b>	<b>£30,351.42</b>

The information in this table is based on the boiler being operated at its peak output and is for illustrative purposes only.

It is based on Ofgem guidance published April 2018. 295 kW is the boiler's peak output and the actual operating output will vary due to the nature of batch-fed boilers.

**For a GlenFarrow GF295 Biomass Boiler at a load factor of 40%, the annual RHI received will be:**

- A Boiler rating in kilowatts
- B Tier 1 payment tariff set @ £0.0305 per kilowatt of energy used
- C Tier 2 payment tariff set @ £0.0214 per kilowatt of energy used
- D Load factor of 40% is an average (dependent upon demand of installation this could range from 15% to 55%)
- E Hours per year (24hrs x 365 days = 8,760 hrs)
- F Load factor per year D x E (40% x 8,760 = 3,504 hrs)
- G Annual usage kWh F x A (3,504 x 295 = 1,033,680 kWh)
- H Tier 1 break point is set @ 3,066 hours per year of operation
- I Maximum kWh tier 1 A x H (295 x 3,066 = 904,470 kWh)
- J RHI maximum tier 1 annual payment B x I (£0.0305 x 904,470 = £27,586.33)
- K Tier 2 start point G – I (1,033,680 – 904,470 = 129,210 kWh)
- L RHI tier 2 annual payment C x K (£0.0214 x 129,210 = £2,765.09)
- M RHI annual payment J + L (£27,586.33 + £2,765.09 = £30,351.42)**

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