

The GlenFarrow GF210 Biomass Boiler

RHI non-domestic payback calculations example

(Based on OFGEM Guidance, published April 2020 - effective from 1st April 2020)

GlenFarrow GF210 Biomass Boiler

A	Boiler rating (peak output)	210 kW
B	Tier 1 rate	£0.0315
C	Tier 2 Rate	£0.0221
D	Load factor	20%
E	Hours per year	8,760
F	Load factor per year	1,752
G	Annual usage kWh	367,920
H	Tier 1 break point	3,066
I	Maximum tier 1 allowance	643,860
J	RHI tier 1 payment	£11,589.48
	Annual RHI payment	£11,589.48

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 2020. 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 20%, the annual RHI received could be:

- A Boiler rating in kilowatts
 - B Tier 1 payment tariff set @ £0.0315 per kilowatt of energy used
 - C Tier 2 payment tariff set @ £0.0221 per kilowatt of energy used
 - D Load factor of 20% 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 (20% x 8,760 = 1,752 hrs)
 - G Annual usage kWh F x A (1,752 x 210 = 367,920 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 tier 1 annual payment B x I (£0.0315 x 367,920 = £11,589.48)
- Annual RHI payment £11,589.48**

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 and www.ofgem.gov.uk and www.parliament.uk | All information correct at time of printing (April 2020). Glen Farrow UK Ltd disclaims any liability incurred with the use of data provided by Ofgem and DECC regarding the Renewable Heat Incentive Scheme.