

New Biomass Boiler Range



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Futurum and Dragon Heat are proud to present a new range of Dragon Biomass Boilers tailored for Medium Commercial Biomass applications (over 200kW)

The D33 Dragon Boiler:

The D33 Dragon Boiler can be rated up to 330kW and is RHI Compliant. Three Dragons can be linked to create a 990kW system which qualifies for the medium biomass RHI Tariff (200kW – 1MW).

The Dragon System utilises its unique 'Air Knife' system in its spacious combustion chamber to maximise combustion and fuel efficiency.

The large (4.85m³) combustion chamber and door opening have been designed to be loaded using a fork lift or other mechanical handling equipment for ease of loading (the D33 boiler can accommodate a 5' Round Bale) and reduce stoking time. In normal operation the boiler will only need filling once per day or twice at peak usage.

Boiler Specification

Your Dragon is built to last, manufactured from 10mm Boiler Plate the combustion chamber has been made to withstand extreme heat conditions – the use of higher grade boiler plate negates the requirement for a fragile refractory lining and reduces through life maintenance costs.

The only moving parts on the boiler are the doors, 2 water pumps and a fan. With very little to go wrong the risk of down time and lost revenue is significantly reduced.



Fuel Types

Virgin Wood, Waste Wood, Straw, Miscanthus, Vergeside/ Pruning Waste, Cereal Crop Waste and even animal carcasses.

NOTE: For RHI Qualifying Boilers – only RHI Approved fuels must be used.

Return on Investment

In addition to providing heat from waste reducing fuel costs, the Government RHI scheme could provide a significant return on investment to Dragon users – see table below:



Green Dragon (Model D33) Rated Output 330kW		330 kW
RHI Tariff (Medium Biomass)		From Jan 2016
Tier 1 (payable for 1st 1314 operating hours)		5.18 p per kWh
Tier 2 (payable for all operating hours over 1314)		2.24 p per kWh
Boiler Load Factor		30%
(Boiler load factor based on 30% run time i.e. 24 hours per day x 365 = 8760 hours 8760 x 30% =		
		2628 hours
Tier 1 RHI Allowance = 1314 x 330 x 5.18p	£ 22,461.52	15% Load
Tier 2 RHI Allowance = 1314 x 330 x 2.24p	£ 9,713.09	15% Load
Total Annual RHI Payment	£ 32,174.60	
RHI Payable over 20 year period	£ 643,492.08	

* **Typical payback period = Less than 2 years**

* Payback period will depend on installation cost and usage of the system.

About Us

Futurum were originally founded by The Ascertiva Group who operate internationally recognised organisations including The NICEIC and NQA. The NICEIC has been assessing the electrical competence of electricians for nearly sixty years and currently maintains a roll of over 26,000 registered contractors. NQA provide accredited certification, training and support services to help clients such as Costa Coffee and Virgin improve processes, performance and products & services. Futurum continue to carry out repair and maintenance work for the NICEIC and Certsure mainly on solar PV systems installed by other MCS installers that have gone bust or provided a poor service.



Our focus at Futurum Renewable Energy Systems has always been on quality. We continue to ensure our work is carried out to the highest standards. We are proud of our reputation as a high quality installer with first class business ethics. We are highly rated on Checkatrade and Which? and were awarded the highest grade possible for the Innasol customer excellence programme.

For Further Details or to arrange a Survey/Quote for your Dragon System please call: John Scott or Mark Blunden at Futurum – 01305 755700

