



BGI Ltd
Bio Global Industries

JULY NEWSLETTER

Bio Global Industries Ltd — Monthly Newsletter

July 2015

Air Heaters with Additional Cooling Capability

We are now pleased to launch our new range of Air Heaters that can also provide cool air. They are ideal for most commercial applications including offices, warehouses and garages. These Monzun air heaters can completely replace underfloor heating and the need for wall-hung radiators.

Technical Specifications

Heating Capacity : - 24 — 63 kW

Cooling Capacity: - 9 — 30 kW

These air heaters are new to the UK market and exclusive to BGI, manufactured to all current standards and regulations.

“We are very excited to launch our new non domestic RHI Calculator this month which will enable business owners to quickly calculate the RHI payments associated with installing a Biokompakt Multi Fuel Biomass Boiler.”

**- Matthew Hunt,
Managing Director, BGI Ltd.**



Monzun Air Heaters with additional cooling capability

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The BGI Stand at Health+Care 2015



Late in June, we exhibited and presented at the Health+Care 2015 Show at the Excel, London to audiences within the Health and Care Home sector.

Our primary objective was to educate the visitors on the significant savings that could be made by installing a multi fuel biomass boiler but also to highlight the additional space that could be freed up for additional bed spaces by switching to an outdoor containerized unit to host the boiler.



Health+Care 2015, Excel, London

Annual Savings exceed expectations at Ley Hill Golf Club

Further to the installation of a 66kW Containerized Biokompakt AWK Multi Fuel Biomass Boiler system in 2014, the resulting fuel savings of almost 50% have exceeded the club's expectations.



Biomass Boiler installed in 2014

"Our Biomass Boiler has been running for just over a year now and we are very pleased with the savings we have made on our heating bills to date. We have seen, over the past year, fuel savings of around £5,000 which is a major saving from my budget. I can now spend some of these funds on the Club House and on more equipment for future functions which is a real investment for the Club's future.

BGI have supplied us directly with pellets throughout the year, of which we have only used 22 tonnes– far less than was originally predicted which means another saving for us. With the efficiency of the boiler now running at 94.3% as opposed to 80% from our old LPG system, we are really very happy with our biomass boiler and the service we get from BGI." **Club House Manager.**

RHI Calculator now live on the BGI web- site

Renewable Heat Incentive (RHI) Cashflow and fuel savings

The Renewable Heat Incentive (RHI) is the world's first long-term financial support programme for renewable heat.

1

Energy Consumption

2

Fuel

3

Payback Summary

Having reviewed what is currently on offer on the internet we decided that a concise and accurate RHI Calculator needed creating in order for businesses to accurately review the cost savings and earnings associated with installing a Multi Fuel Bio-mass Boiler.

To this end, we have just launched our own RHI Calculator for non-domestic applications which can be found on our website, at

<http://www.b-g-i.co.uk/calculator.php>

RHI
Renewable Heat Incentive



The Biokompakt Lime Metering System

AFBI Tests: Burning Miscanthus in our boilers

The AFBI in Northern Ireland carried out tests on our boiler burning Miscanthus (Elephant Grass) which needs to be burned at lower temperatures than wood chips or pellets. Miscanthus has a lower fluid temperature ash fusion than wood chip at approximately 1,220°C compared to wood chip at >1,400°C.

The issue here is that if it burns at a temperature >1,220°C slagging occurs whereby the ash of the fuel effectively melts at high temperatures. If wall slag (clinker) occurs the melted ash can slide to the bottom of the combustion zone. The wall slag can stick to the wall of the furnace. If this builds up on the wall, it blocks heat to reach the boiler creating an inefficient process.

The AFBI have conducted research on miscanthus combustion using our 'Biokompakt' multi fuel boiler and this research has shown that the addition of lime can prevent excessive build-up of clinker in the boiler combustion chamber. Invariably if the boiler can utilise miscanthus it can also deal with less troublesome fuels such as wood but not the other way around.

Kevin Lindegaard of Crops for Energy Ltd is a well respected consultant and Director of the Wood Heat Association who has been working closely with BGI for over a year. Kevin has an excellent knowledge of energy crops and has helped BGI source varieties of willow, poplar, eucalyptus and energy grasses from across Europe.



He also facilitates our installer training ensuring our partners have a broad understanding of fuels and energy crop options and the current national biomass scene. The intention is to continue to develop this link - for instance we are hoping that Kevin will also be able to help our clients who wish to self-supply their own fuel by growing energy crops or using agricultural residues and waste streams and therefore keep their ongoing fuel costs to a minimum.



Kevin could not be happier with this partnership. He says

"The Biokompakt boiler is incredibly versatile - it can burn all sorts of biomass types whilst achieving high efficiency levels and low emissions. I've been saying for years that we need to be thinking about what happens when all the wood is accounted for? We're closing in on the juncture when low cost alternatives such as residues, wastes and dedicated energy crops will come into their own. The Biokompakt boiler will certainly help this revolution as it has been built to burn these more difficult fuels. Also, by using locally sourced biomass, the system will maximise the sustainability of the supply chain".

Contact Us:

Please call us for more information about our biomass boilers, fuels and associated products:

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