

Biofutures Case Study

Zoar's Ark, Neath



"State of the art hot air system that's eligible for RHI"

Zoar's Ark Pet Superstore is a family run business which has been a supplier of quality leading Brands of Pet Products in Neath Wales since the 1950's... with a separate Pond and Garden Centre and a Horse and Country Centre .



APPROVED INSTALLER

RECOMMENDED ON



Zoar's Ark was established by Mr. William John Jones as an agricultural store in 1949 and is still run by the same family today.

Owner, Martyn Jones were keen to ensure that the business is as environmentally friendly as possible, so they decided to look into biomass heating as an option.

When it came to selecting a heating system, biomass may not have seemed an obvious choice, due to the limited internal space, and access for fuel delivery presented a number of significant challenges. After examining the options, a compact wood pellet system, based on a high efficiency was specified, and installed in early 2016. It is able to provide all the necessary space heating to keep visitors comfortable right through the year.

Martyn comments, "We were pleasantly surprised to find such a compact boiler system was available, given restrictions on space in and around the store. "

The Airflow system uses an advanced control system meaning it loses none of it's efficiency rating when modulating down to as low



The SMART Airflow comes in sizes from 30kw up to 80kw



The unique water to air system means it is eligible for the RHI

"Pellet heating system provides compact heating solution for superstore"

as 30%. It is also fitted with an automatic electrical ignition and a self cleaning vertical heat exchanger . Together with it's automatic de-ashing and remote monitoring via the internet or GSM, makes it very simple to operate.



The Installation	SMART Airflow 50kw
Location	Pet Superstore located in the heart of Neath
Date commissioned	September 2015
Installers / suppliers	Installers: Biofutures Ltd
Fuel	
Fuel store	250 kg fuel store including fuel auger
Delivery frequency during heating season	Fuel loaded no more than twice a week during the heating season.
Fuel specification	6mm pellets
Annual fuel use	Approx 13 tonnes of pellet
Annual fuel cost (2016 Q1 prices)	£2,500 (estimated)
Estimated ROI	
RHI Payments	£2,500 per annum indexed linked for 20 years
CO2 Emissions	SAVING 17tonnes

Biofutures, The Biomass Centre, Taliaris, Llandeilo, SA19 7NF
Tel: 01558 824100 Email: info@biofutures.co.uk
www.biofutures.co.uk