

Ansty Manor, Wiltshire, 70kW



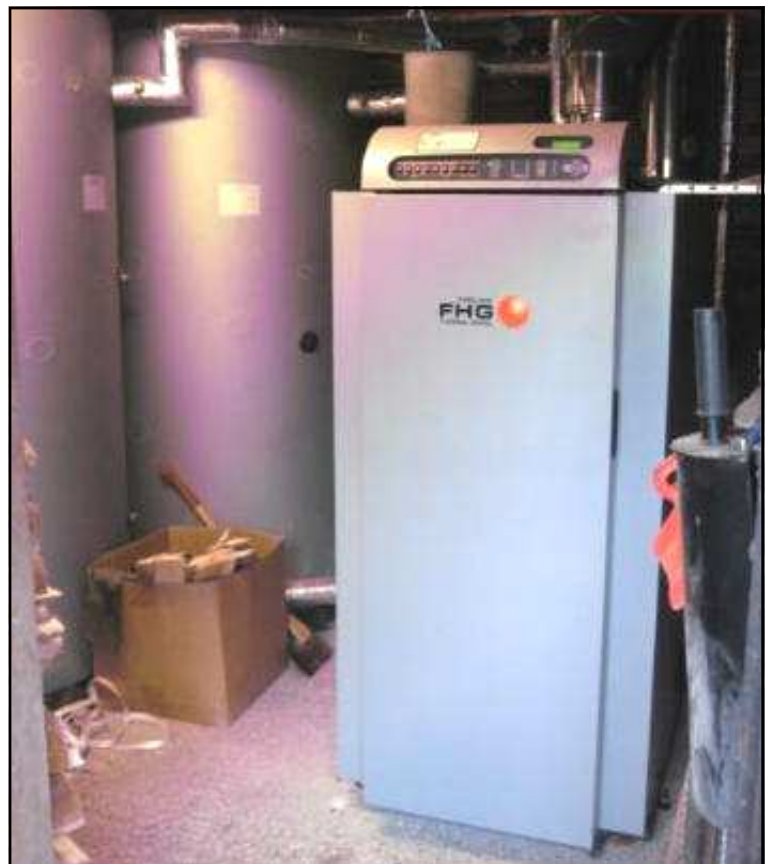
Ansty Manor is a large listed private house with an indoor swimming pool in Wiltshire. The owners decided to investigate alternative heating solutions, using advice from the local AONB and the Centre for Sustainable Energy at the South West Regional Development Agency.

The main two reasons for looking at alternative sustainable systems was to help reduce the environmental impact of burning fossil fuels and to reduce the cost of the existing oil boilers.

Biomass boiler

The Froling FHG log boiler was chosen as the most cost effective solution for the project. The farm also has a small amount of wood land on the farm which supplies part of the requirements. There are also facilities available for storing the wood until it reaches the correct moisture content to burn efficiently.

Right; Froling FHG log boiler with buffer tank



Wood fuelled boilers **Biomass energy services** **District Heating**

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Technical Summary

- Froling FHG 3000 Turbo High Efficiency 70kW log boiler.
- Lambdatronic S3100 Comfort controls to give modulating combustion control via Lambda sensor.
- Turbulator package for easy cleaning and sustained high efficiencies.
- The domestic hot water circuit is on a timed heating main

Operation

Boiler is manually loaded normally twice a day using wood from site. This charges the large accumulator tank which provides the hot water and heat requirement for the day.

The boiler is quick and simple to light using fans to ensure a successful fire every time.

Little ash is produce, normally one bucket a week which is spread on the garden.

Oil savings

Ansty Manor previously used three 40kW oil boilers to heat the indoor swimming pool complex and the house.

Heating the house and maintaining the pool at a constant 28C was using approximately 25,000 litres of fuel oil a year plus 2,000 litres for the AGA for the hot water.

The AGA is still used and the oil boilers have been left in as automatic back up. The end effect is a 85% reduction in oil use per year.

Reason for choosing Econergy

The client selected Econergy partly due to the reputation of the Froling boilers and partly due to the helpful support provided in installing the boiler, training and answering any queries over the phone.