

### Dudwell Farm

Located in Pembrokeshire, Dudwell Farm consists of a number of buildings including the Farmhouse, Farm Cottage, grain drying floor and a swimming pool. The workshop and farm office were heated using electric, while the grain dryer used fossil fuel. The house and cottage were previously using LPG boilers. The customer wanted a heating system that could heat everything so we installed a Heizomat RHK-AK 800 to do the job!

Heat generated by the 800kw biomass chip boiler is metered and fed into two 5,000 litre heat accumulators in two directions: 1) To a 750 kW heater coil with fan that is used to blow air into a drying floor to enable drying of arable farm crops over the summer and autumn, as well as for out of season drying of sufficient wood chip to fuel the boiler. The drying shed is a fully enclosed purpose-built structure. 2) The other demand for heat involved transporting the hot water via underground duo pipes to heat the other buildings on the farm.

The main driver for biomass was to have one heating system to do all, to increase energy efficiency and reduce their carbon footprint as well as reducing fuel costs and replacing unreliable ageing boilers.



In addition to increasing the energy efficiency and dramatically improving their environmental impact, the farm will also benefit from the Renewable Heat Incentive (RHI) payments which will see the system potentially generating more than £56,000 in payments every year for the next 20 years.