



LOCATION: KIRKBY, NORTH YORKSHIRE



PROPERTY CHARACTERISTICS:

19TH CENTURY FARMHOUSE

FIVE BEDROOMS

PREVIOUS FUEL:

TWO OIL BOILERS

TECHNOLOGIES USED:

- INSULATION ✓
- AIR SOURCE HEAT PUMP ✓
- DOUBLE GLAZING ✓
- SMART CONTROLS ✓
- LOW TEMP HEAT EMITTERS ✓
- HOT WATER CYLINDER ✓

The project

Owners Pat Battle and Duncan Kirkby, a retired couple, were looking for a more cost-effective alternative to replace their two old oil boilers, one for the front of the house and one for the rear, which were very inefficient and costly to run.

The couple had been spending a huge amount on oil to fire up their boilers.

Specification

The new system is made up of two 12kW NIBE F2040 air source heat pumps, a 300L NIBE Megacoil hot water storage cylinder and NIBE SMO40 intelligent controls. As part of the install, the loft, walls and floor of the farmhouse were insulated and extra double glazing was fitted. This brought the property to a modern heat-loss standard so that the heat pump could perform to its optimum efficiency.

Since the NIBE F2040 works to a lower flow temperature than the property's previous system, underfloor heating was also fitted and all the radiators were re-sized for a maximum flow temperature of 45°C.

Benefits

The system is now fully up and running. As well as providing a consistent supply of comfortable heating and readily available hot water, it cut the farmhouse's bills by more than £1,800 per year compared to the previous oil-based system.

The system also qualified for annual payments of up to £1,609 for seven years under the government's Renewable Heat Incentive (RHI) scheme, making it even more cost-effective in the long run.

The intelligent controls allow Pat and Duncan to control both their heat pumps to meet their heating and hot water needs on one easy to use system. The controls enable them to set the temperature of their heating and allows it to be scheduled including a holiday setting. The heat pump is compatible with NIBE Uplink which allows remote monitoring and control over the internet, with fault notifications via email.



"We're delighted with our new heat pumps and are enjoying the benefits of a heating system that keeps our home warm and comfortable (even when the whole family comes to visit) without having to worry about increasing bills. The controls are really straightforward – we simply leave the heat pump running and the controls do all the work for us!" Duncan Kirkby