



Perton Cottage - Domestic Installation

The challenge

The client, a retired couple, were unhappy with the costs and performance of their existing heating system. They had identified one particular room that they would like to use more, but it could not be heated sufficiently to become comfortable and so it remained unused.

The property, a well-insulated, 3 bedroom cottage, used a wet system of radiators, supplied by a small tank heated with LPG

which required to be on every morning and evening.

The desire to be comfortable in their own home was being prohibited by annual heating costs in excess of £5000.

Retherm's brief to cut the costs of the heating and hot water whilst providing a more pleasant living environment was one we enjoyed taking on.

The solution

Retherm carried out a technical survey of the property and due to the lack of available ground discounted a ground source heat pump, but saw an air source unit as the right product for this situation.

The system Retherm designed incorporated a NIBE 2005 air source with a VVM internal unit. NIBE air source heat pumps are designed to work in Nordic conditions, so are ideally suited to our mild UK climate.

The robust outside unit was sited near the property, with the VVM unit being indoor where the existing boiler had stood.

The VVM unit houses the mains pressure hot water cylinder and the controls for the

system. Removal of the hot water cylinder, replaced by a small radiator kept the airing cupboard warm.

The running cost for electricity, now the only cost in regards to supplying energy to the house, is averaging £100 per month after completion of Retherm's installation.

"We are delighted with the system and to have constant heating and hot water all of the time is a joy."

Mrs Franklin

This was a very straightforward project for Retherm engineers – installation and commissioning took just three days.



Specification

Location:

Wolverhampton

Heat Pump:

NIBE Fighter 2005 11kW

Source:

Air source

Heat distribution:

Radiators

Accumulator:

VVM 300

Funding:

Low Carbon Buildings Grant - £900

Results

Running costs prior to installation:

In excess of £5000 per annum.

New installation running costs:

£100 per month (electricity).

All NIBE equipment was supplied by NIBE Energy Systems Ltd, Chesterfield, and manufactured by the parent company in Sweden.