

Young family lower fuel bills thanks to Ecodan



Northumberland



Detached



5



3



2

A young family of four living in a five bedroom, executive home in Northumberland, were desperately seeking ways to reduce their fuel bills. Due to its location, there is no mains gas supply to the property, so the family have used an LPG boiler to heat their home for a number of years.

Using an LPG system to heat a home, proves very expensive to run. With rising fuel costs set to drive their heating bills up further still, the couple were promoted to look for a cost-effective alternative.

The couple were also looking to be more conscious of their carbon footprint so therefore a suitable heating alternative will need to be looked for.



The solution

Built in 1999, the house has all the thermal qualities you'd expect of a house this age and stood to benefit greatly from the use of a more efficient heating system. Other alternatives to LPG, such as wood, solar power and biomass, proved either insufficient for their needs or too expensive to install, run and maintain.

A 14kW Ecodan air source heat pump was installed to the property, saving the family around £520 a year as the system harvests free energy from the outside air to provide central heating and hot water for significantly lower costs.

Replacing a 75% efficient, expensive to run LPG boiler, the Ecodan system is found to be much more efficient and effective to run. Changing to Ecodan meant this family are no longer reliant on the increasingly expensive LPG system to heat their home. With annual savings of a massive 45%, they're able to reduce their average heating bills from £1,100 to £580.

By installing large, efficient radiators fitted with TRV's, the Ecodan system works perfectly to ensure their home is warm enough without the need for any additional heating. Ecodan easily meets the demand for hot water, as well as delivering a more even temperature throughout the home for maximum comfort.

Summary:

- Ecodan offers a significantly reduced costs system than LPG boilers.
- 14kW Ecodan Air Source Heat Pump replaced 75% efficient LPG boiler
- Carbon emissions significantly reduced with Ecodan



Product Overview:



14kW



200L



Radiators



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Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R1234ze (GWP:7) or R1234yf (GWP-4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

