

Domestic Air Source Heat Pump for private residence



John Hughes, Low Moor

John Hughes was finding it more and more expensive to fill his LPG tank and decided to look for a more efficient and less costly alternative to his LPG fed boiler. Being sceptical about heat pump technology, John researched the subject for six months. He approached ten different companies for advice but found it difficult getting the right answers to his questions. This led John to contact Dalliam Ltd for help, which convinced him of the feasibility of air source heat pumps.



John's house is situated near Brampton, Carlisle. It is a two hundred year old former gatekeeper's lodge built from sandstone with a new extension. The house is of solid wall construction with an injected damp-proof course. The modern extension consists of an insulated cavity wall. John has made sure the building is as thermally efficient as possible. The whole loft space is fully covered with a thick layer of fibreglass insulation and the flat roof with Kingspan. All windows are double glazed. The original pipework for the central heating varies in size and although, far from perfect, is adequate to move the heat around the property. There are solid floors throughout, apart from two rooms. There is a wood burning stove in the living room.

After carrying out a full heat loss calculation on John's house, Dalliam installed a 14 kW Mitsubishi Electric Ecodan in September 2010. He then experienced a winter very similar to the year before, with both dropping to -16°C. This gave the opportunity to assess the efficiency of the system.

| | Oct 2009 - Mar 2010 | Oct 2010 - Mar 2011 | TOTAL SAVINGS |
|---------------------|----------------------------------|--------------------------|---------------|
| Cost of energy used | £1,352.13 (Gas & Electricity) | £817.15 (Electricity) | £534.98* |

**All figures are derived from the customers own readings*

John's reflection on the harsh winter was

"the air source heat pump was able to cope with the low temperature and provided both hot water and heating at all times".

Following John's experience of his installation from Dalliam Ltd and having used the Ecodan system for ten months he remarked

"I can only say that I have not been disappointed".



Please visit: www.dalliam.co.uk for further information on the services we offer and how we can help you to reduce your energy usage. Telephone **01695 423802** or email info@dalliam.co.uk

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