



## Client

Private self builders

## Products

LA11MS outdoor air source heat pump

## Partners

Earthwise Scotland

### Scotland self builders warm to free energy with Dimplex

Energy efficient, low carbon heating is now taken for granted by the owners of a new build property in Scotland – as it's one of the first projects to secure funding from the Scottish Community and Householders Renewables Initiative [SCHRI] for the installation of a Dimplex air source heat pump.

First time self builders Joan Currie and Jerry Bishop worked with Dimplex installer partner Earthwise Scotland, who installed a Dimplex LA11MS outdoor air source heat pump to heat the water in the 300 litre tank and the underfloor heating system. The SCHRI grant provided 30% of the total cost of the heat pump – a real bonus for the homeowners.

Joan explains: "Our objective with this property was to have an energy efficient house and heat pumps are one of the most advanced and effective methods of heating. We had looked at ground source heat pumps but due to the rocky nature of the site, decided that an air source heat pump (ASHP) would be better. We chose Dimplex because it has such a wide range of models and there's the back-up of a well known company. When the heat pump was installed, it worked instantly – raising the water tank temperature from seven degrees Celsius up to 50 degrees in less than an hour."

Within just three days, the heat pump was operating at full capacity, heating the domestic hot water and delivering a room

temperature of 22 degrees Celsius. The underfloor heating system is connected to a time clock to make the most of the Economy 10 tariff from Scottish Hydro Electric, while other energy saving measures include above standard insulation and a planned introduction of solar panels for the water heating.

The Dimplex air-to-water heat pump stands on a purpose-built slab at the side of the 160m<sup>2</sup>, four-bedroom property and introduces an established and very popular European technology to the UK. It operates by extracting heat from the ambient air at temperatures as low as minus 20 degrees Celsius, with a high performance above freezing point. With UK average winter temperatures of around four degrees Celsius, average co-efficients of performance range from around 3.4 to 4.0.

Householders Joan and Jerry completed the timber-frame house within a carefully planned nine-month build schedule and will be monitoring the energy consumption on an ongoing basis.

The air-to-water Dimplex heat pump was selected for the project as it offered a relatively low capital and installation cost compared with a ground source alternative and it's a technology that's proven in Europe where Dimplex has been manufacturing heat pumps for 25-plus years. In fact, sales of air to water heat pumps have overtaken those of ground source in many European countries as they offer a lower cost and simpler installation as well as needing less space, making them ideal for new build and retro fits in domestic and light commercial premises.



Comfort. By design

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