

# Air Source Heat Pumps for Social Housing

Beechwood Court, Skelmersdale



42 warden assisted flats owned by West Lancashire Borough Council.

Following a review of the old heating system which used a number of direct electric heaters connected to an 'Economy 7' circuit, Dalliam Ltd were called in to advise on an energy and cost efficient replacement.

Taking into account energy calculations from a building survey the team set about designing a new more efficient system, using Ecodan air source heat pumps. People are often afraid to use their heating because of the cost. The priority was to provide reliable effective heating when the residents most wanted it and a hot water system that was affordable. The new system provides this but has also lowered the energy rating and the carbon emissions for the building thereby fulfilling the council's brief.

One 5kW Ecodan unit was installed for every two flats, providing heat via a radiator circuit. This is fitted with independent lockable heating stats and thermostatic radiator valves, further helping to save energy costs. All the work was carried out with the residents remaining in situ.

A 14kW Ecodan was also installed to provide heating and domestic hot water to the warden's accommodation as well as providing heat to the communal dining area and hot water use in the kitchen, hair salon and guest rooms.

Some of the systems installed at the end of 2010 have already been given a thorough testing following the onset of December's bitterly cold weather as temperatures dropped down as far as -17°C. However during this time the tenants remained warm and cosy as Ecodan maintained a constant temperature of +24°C.

West Lancashire Borough council said

**"We are incredibly impressed by the new Ecodan system...during the very severe weather last year, when we compared Beechwood Court with the other Council buildings' using gas boilers, it was the only one that did not fail in some way in its' heating."**

**"Our tenants are also delighted and we have received several very positive comments from them stating how happy they are with the new system and the excellent customer care they received."**



Please visit: [www.dalliam.co.uk](http://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](mailto:info@dalliam.co.uk)

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