Heat pumps bring salvation to high energy bills

Heating

ecodan®
Renewable Heating Technology

A programme to upgrade the heating of homes in Essex is helping the **Salvation Army Housing Association** bring affordable warmth to residents whilst also reducing the carbon footprint of its housing stock.

Case Study

Salvation Army Housing Association

> “We’ve used air source heat pumps on other schemes and know that it is important to have both a good contractor on board and a resident at pre-start meetings who has experience of the benefits that heat pumps offer”
>
> **Dean Sitton**
> Capital Projects Manager for Saha

Salvation Army Housing Association (Saha) owns and manages over 3,500 homes across England and when a mixture of 35 flats and houses in Brewers Yard, Southminster, in the Maldon district of Essex required an upgrade, TSG Building Services were appointed as a result of a competitive tender to install new Air Source Heat Pumps heating systems

TSG recommended the **market-leading Ecodan system from Mitsubishi Electric**, with units installed ranging from 5kw to 8.5kW depending on the property size, along with pre-plumbed cylinders.

Ecodan is designed for retro-fitting making it suitable for almost any property. It can even work alongside existing heating systems in a hybrid situation deciding when it is most efficient to use the renewable heating.

“We’ve already had good feedback from a customer satisfaction questionnaire in regards to savings on their energy bills in comparison to their previous electric heating systems as well as the increased thermal comfort of their homes,” added Mr Sitton, “Of course there is also the added benefit of being able to attract regular payments from the Renewable Heat Incentive.”

Case Study

Salvation Army Housing Association

> “We believe in working together with our residents, so we can help combat high energy costs and alleviate fuel poverty”

Dean Sitton
Capital Projects Manager for Saha

New mother Sara Hatt has been delighted with the work carried out by TSG and with the warmth her home receives from the Ecodan system: “It’s important that I can keep my baby warm but like everyone I also need to be careful how much it costs,” she says, praising the work that both Saha and TSG did in upgrading the heating.

Saha is committed to partnership working for the benefit of local communities and the organisation also realises that the carbon footprint of domestic housing is one of the biggest contributors to global warming in Britain.

The organisation is therefore committed to look to upgrade expensive-to-run heating with one’s that are more energy-efficient and therefore comparably cheaper to run.

“At the moment, gas heating is still just the cheapest option in terms of installation costs but where it is simply not possible or cost prohibitive to get gas onto a scheme, then air source heat pumps are now our preferred choice.”

Installation Summary

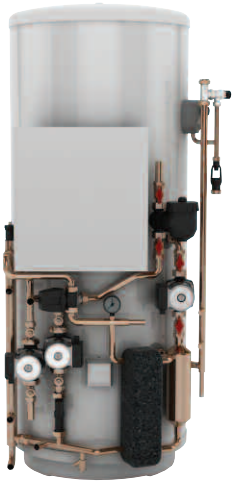
ecodan® Renewable Heating Technology

- 35 Ecodan air source heat pumps installed
- 5kW and 8.5kW Ecodan units depending on the size and heat load of each property
- All Ecodan units work with pre-plumbed cylinders

ErP A++

5kW Ecodan unit

8.5kW Ecodan unit



Pre-plumbed cylinder

MITSUBISHI ELECTRIC
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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) or R134a (GWP:1430). *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).

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