



Ashcraig, Scotland



Heat pump delivers a steady temperature and baby sleeps better

One of the first things that Scottish homeowners Alex and Wendy Corlett noticed after switching to a Dakin Altherma 3 H High Temperature air source heat pump was that baby Daniel – just seven months old – was sleeping better.

“This was because the new system was quietly maintaining a steady 21°C, which is the optimal temperature for babies’ sleep, we’re told,” says Alex. “What we have now is a much more subtle heat throughout the house.”

The couple moved into their three-bedroom detached bungalow, Ashcraig, in 2017. It is in a small hamlet near Dundee, and just south of the Tay estuary.

With the house, built in 2000, the Corletts inherited the original oil-fired heating and hot water system.

Magazine journalist Alex says: “It was noisy, smelly and there was an ugly oil tank in the garden. The system had become unreliable and we were needing to call an engineer up to five times a year. We decided it was time for a better solution.

“We were conscious of the need to be as environment-friendly as possible, so we turned to the Energy Saving Trust for advice. They ran through a number of options before recommending that we should fit an air source heat pump. We liked the sound of this, and looked for possible installers.”

The Corletts chose Daikin heating system specialists the Natural Energy Company, based nearby in Newport-on-Tay.

Year of installation

› 2021

Project requirements

- ☐ LT Split
- ☐ LT Mono
- ☒ HT Split
- ☐ Hybrid
- ☐ Combustion
- ☐ Smart Controls
- ☐ Solar Thermal
- ☐ UFH
- ☐ Heat Pump Convactor

Installed systems

- › Daikin Altherma 3 H HT (outdoor unit)
- › Daikin Altherma 3 H HT (indoor unit)
- › Daikin 300-litre unvented cylinder



Alex Corbett says: "Not only did they recommend the Daikin system, but they also guided us through an application for a loan to finance the project and subsequently the application for the Domestic Renewable Heat Incentive. It will be interesting to see how the running costs compare over time."

NEC director Richard McLaren says: "Even though there was a 35kW oil boiler, it was not heating the house properly. As in many homes of a similar age, the heating system had micro-bore piping which was prone to sludge problems. So we recommended a complete re-plumbing to improve the flow to the radiators."

"And the old boiler was a combi type, but no longer providing a satisfactory supply of hot water to the kitchen and bathrooms."

The NEC team calculated that with new radiators and plumbing, the family's heating and hot water needs could be met adequately by a 16kW Daikin Altherma 3 H high temperature heat pump.

It is one of the first Scottish installations of the sleek new heat pump, based on Daikin's Bluevolution technology and R32 refrigerant. The outdoor unit incorporates revolutionary designs to enhance looks and reduce sound – as well as improving heat output. The unit connects directly to the heating circuit (H is for hydro) so installation requires no refrigerant piping or gas handling.



Richard McLaren says: "The wall-mounted indoor unit, which contains the controls and hydraulic components for the heating system, is installed in the attic above the utility room. The indoor temperature controller is in the hallway."

"We also installed a 300-litre Daikin unvented cylinder in the utility room. So now the family can rely on a constant supply of hot water in all weathers."

Daikin also offers space-saving integrated indoor units and hot water cylinders in various capacities.

Kit list

Code	Description	No of units
EPRA-DV3	Daikin Altherma 3 H HT (Outdoor unit)	1
ETBH-D6V	Daikin Altherma 3 H HT (Indoor unit)	1
EKHWSU-B3V3	Daikin 300-litre unvented cylinder	1



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