



Thirteen picks Daikin Altherma for Whitby homes upgrade

Sixteen homes in the picturesque Yorkshire seaside town of Whitby have been modernised with Daikin Altherma Monobloc heat pumps replacing all-electric heating and hot water systems.

The units have been retrofitted at St Hilda's Court – a 1990s development of 12 flats and four semi-detached houses on the hillside above the southern bank of the River Esk, affording magnificent sea and town views.

With the existing storage heaters and hot water systems due for renewal and expensive to run – even on the Economy 7 tariff – social housing provider Thirteen faced the choice of fitting gas boilers or switching to renewables.

Wes McGeeney, Thirteen's Renewables Team Lead, says efficiency, environmental concerns and economic incentives tipped the scales heavily in favour of the heat pump alternative.

Thirteen has an ongoing supply chain agreement with Travis Perkins and was the first registered provider to access TP's HeatRHight funding scheme designed to fund, design and install energy efficient air source heat pumps.

The scheme works by trading seven years' government-funded Renewable Heat Incentive payments for an upfront payment, making it easy to install technologies that cut fuel costs for customers, as well as reducing carbon emissions. As a result, Thirteen was able to recoup 50% of the overall capital cost of the scheme – and use the money towards similar schemes elsewhere in its housing portfolio.

Thirteen worked closely with Daikin UK and specialist plumbing, heating and mechanical services contractor R Bland Limited of Darlington to achieve the sustainable solution.

Year of installation

> 2020

Project requirements

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

Installed systems

- > 5kW Monobloc unit
- > 5kW Outdoor Unit
- > 150L unvented cylinder
- > 200L unvented cylinder

The three-bedroom houses, eight two-bedroom and four one-bedroom flats now have independent Daikin Altherma Systems, consisting of an outdoor condensing unit and DHW storage cylinder. The old storage heaters have been replaced with radiators.

The outdoor units were installed at ground level at the rear of the red-brick buildings. As they are visible from the St Hilda's Court parking area and the car park behind the neighbouring business centre, the units and associated trunking have effectively been disguised with brick-pattern vinyl cladding.

Thirteen's executive director for property services, Russell Thompson, says heat pumps offer one of the most efficient and reliable ways to heat a home.

"It's becoming more popular as it is fully controllable by our customers.

"As the largest social housing provider in the North East we're making a real difference to our customers and that's something we're very proud of. We've already installed over 200 air source heat pumps in our properties and we've had some excellent feedback from customers.

"These properties in Whitby now have a heating system which meet the needs of our customers with easy-to-use controls.



Russell Thompson continues to say:

"We're always looking to provide more efficient ways of keeping our customers' heating bills as low as possible. With so many people facing fuel poverty and energy bills constantly rising this is one of our top priorities.

"By using this technology, people have just one fuel bill and a system that's four times more efficient than a traditional gas heating system. What's more, it's safe and reliable, with no carbon monoxide, greenhouse emissions or fear of gas leaks."

Kit list

Code	Description	No of units
EDLQ05CV3	5kW Outdoor Unit	12
UK.EKHW-SU150B3V3	150L unvented cylinder	12
EDLQ07CV3	5kW Outdoor Unit	4
UK.EKHW-SU200B3V3	200L unvented cylinder	4
EKCB07CV3	Wiring Centre	16
EKRUCBL2	User Interface	16
K.HOSE750EL	Flexible hoses	16
K.FF600ASN	Anti-vibration feet	16



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