



Newbuild, Wiltshire



Big role for Daikin Altherma Monobloc in Wiltshire MCS solution

With renewable energy high on the planners' agenda, Daikin Altherma Low Temperature Monobloc heat pumps provided a perfect heating solution for a pair of high-end houses in Wiltshire.

The newly built, three-storey houses are attractively finished in Cotswold style. Inside, they have a generous 213m² of living space – including six bedrooms, two with en-suite showers.

The houses have underfloor heating on the ground floor and standard radiators on the upper levels. The heating load was calculated at 6kW – or 28W/m².

Developer Simon Ellinger turned to Daikin UK renewables distributor IBD Distribution for the solution.

"With Building Control upping the requirements for energy conservation and demanding

increased use of renewables in development, IBD was in the perfect position to provide everything we needed," he says.

"They could design the heating installation, supply all the products and also provide the support our plumbing and heating installer needed to complete the project exactly to our specification."

IBD director Ian Smith says the 7kW Daikin Altherma Monobloc from Daikin UK was the obvious choice for heating the houses and their hot water systems.

"A very compact and highly energy efficient heat pump solution, it can deliver flow temperatures up to 55°C and has a market-leading coefficient of performance. It is an out-of-the-box solution for the installer, with its simplified wiring and completely sealed refrigerant circuit. – it requires only water connections.

Year of installation

› 2017

Project requirements

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

Installed systems

› 7kW LT Monobloc

"The compact outdoor unit contains all the key hydraulics and can be positioned in any convenient outside location – in this case at the sides of the houses.

"The Monobloc also works extremely well with an underfloor heating system."

In this installation, the water circuit includes a conventional motorised valve that automatically selects the heating circuit or the coil in the hot water tank as required by indications from room and tank temperature sensors. The 300 litre Daikin DHW cylinder is fitted with an electrical immersion heater that can assist in bringing the tank back to its usual 50°C setting at times of peak demand and also raise the temperature to 65°C for periodic legionella control.

With a strong background in installation, system design and product distribution, IBD was well placed to provide a total MCS solution.

Installation contractor C&S Plumbing of Devizes, sourced the products through IBD's distributor, Plumbstop of Melksham. C&S Director Craig Horrick says: "Like many other installers, we do not have Microgeneration Certification Scheme (MCS) accreditation. IBD offers everything that I needed for this installation, including guidance on installing the system, commissioning through Daikin UK and the sign-off to MCS requirements.

"From this I can see that renewables projects can be attractive – especially in rural off-gas areas"

A natural fit for homes where space is limited, the Daikin Altherma LT Monobloc needs only a wiring centre indoors,



while the compact and quiet outdoor unit can be installed almost anywhere – under a windowsill, or in the smallest of gardens.

With minimal wiring and water connections, the Daikin Altherma LT Monobloc heat pump can be installed easily, with little disruption. No special groundwork is required and the dimensions of the Monobloc meet the requirements of Permitted Development Rights, so planning is not necessary in most cases.

Perfect for an energy-efficient new property, it's also suitable for replacing an older heating system. It will keep heating bills as low as possible, while helping to reduce carbon emissions and environmental impact.

As an MCS accredited renewable heating system, the Daikin Altherma LT Monobloc heat pump is eligible for funding from the domestic Renewable Heat Incentive (dRHI), which helps to offset the installation cost of renewable heating systems, making them an even better investment in the long-term future.

Kit List

Code	Description	No of units
EBHQ-BBV3	7kW Daikin Altherma LT Monobloc heat pump	2
EKHWSU-B3V3	Daikin 300 litre unvented cylinder	2



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