Heat Pump and MVHR units for farmhouse

Family home is made fit for generations to come



A system designed to pass the test of time

A challenge to create a future-proofed, energy-efficient, home that the home owner can pass on to his family for the next two generations to live in.

Description

- Cherry Tree Farm. Hiblestow
- An Installation by TPM Plumbing & Heating
- WPE-I 07.1 Plus H ground source heat pump with 3 x 200m collectors in adjacent field
- SBP 100 (100L buffer) and SBB 200 (200 litre) hot water cylinder
- VRC 450 Premium MVHR unit
- Underfloor heating installed throughout

Originally built in 1975 by the current owners' parents, the 150m² Cherry Tree Farm has undergone a complete back-to-frame renovation to transform it into a modern, highly efficient family home ready to accommodate the next two generations. The project combined a deep commitment to preserving the property's heritage with a forward-thinking approach to energy efficiency, comfort and sustainability. Future-proof building services formed a key part of the renovation strategy, with TPM Plumbing & Heating appointed to design and deliver a low-carbon heating and ventilation solution capable of meeting the demands of the newly upgraded building fabric. Taking advantage of the available land surrounding the property, the team specified a highly efficient ground source heat pump system connected to a horizontal ground collection loop, providing renewable heating and hot water throughout the year.

To further enhance performance, the property was equipped with a Mechanical Ventilation with Heat Recovery (MVHR) system. By continuously supplying fresh, filtered air while recovering heat from extracted air, the MVHR significantly reduces ventilation-related heat losses. This not only improves indoor air quality and occupant comfort but also allows the ground source heat pump to operate at even greater efficiency, reducing overall energy consumption and running costs.

The combination of renewable heating, advanced ventilation and an extensively upgraded building envelope has created a home that offers exceptional comfort, low operating costs and reduced carbon emissions, ensuring it remains fit for future generations while helping the homeowners meet their sustainability goals



TPM said “We chose STIEBEL ELTRON products for both heating and ventilation because of their proven quality, reliability and ease of installation. Their systems are designed with installers in mind, making it straightforward to achieve a high-quality installation and smooth commissioning process, backed up by excellent technical support from their engineering team.

For homeowners, having a single intuitive app that controls both the heat pump and MVHR system is a real advantage, making the entire system simple to monitor and manage. Most importantly, the high efficiencies delivered by both technologies help to minimise energy consumption, providing long-term savings and outstanding comfort for the customer.”

“Working with TPM on this project has been a pleasure from start to finish,” said Nick Maddison, Head of Sales and Marketing at STIEBEL ELTRON. “The team adopted a genuine whole-house approach, carefully considering how the building fabric, heating and ventilation systems could work together to achieve the best possible outcome. The results are fantastic and have created a home that will deliver comfortable, sustainable living for generations to come.

By harnessing renewable energy stored naturally within the ground beneath land that has been farmed for many years–and will continue to be farmed for many more–this project demonstrates how low-carbon technology can seamlessly integrate into rural properties. Combining our latest low-GWP ground source heat pump with a high-efficiency MVHR system has created a solution that maximises energy efficiency, reduces carbon emissions and enhances indoor comfort.

Projects like Cherry Tree Farm highlight the importance of viewing renewable heating as part of a wider, holistic strategy rather than simply as a replacement for a traditional boiler. When heating, ventilation and building performance are considered together, the result is a highly efficient home that is ready for the future.”

The result is a future-ready home that demonstrates how renewable heating and intelligent ventilation can work together to deliver industry-leading efficiency, healthier indoor environments and sustainable living without compromising on comfort.



ground source collector loop once re-buried

Comfort through Technology

Your local trade partner:

For new and interesting information on our products, visit www.stiebel-eltron.co.uk or consult your local trade partner.

STIEBEL ELTRON UK Ltd | Unit 12 Stadium Court | Stadium Road | Wirral International Business Park | Bromborough | CH62 3HY | sales@stiebel-eltron.co.uk | 0151 346 2300 | www.stiebel-eltron.co.uk

Legal notice | In spite of our careful efforts, we are not liable for any inaccuracies in the content of this brochure. Information concerning equipment levels and specifications is subject to modification. The equipment features described in this brochure are non-binding regarding the specification of the final product. Due to our policy of ongoing improvement, some features may be changed or even removed. Please consult your local dealer for information about the very latest equipment features. The images in this brochure are for reference only. The illustrations also contain installation components, accessories and special equipment that do not form part of the standard delivery. Reprinting of all or part of this brochure is only lawful with the publisher's express permission.