

PRESS RELEASE: OCTOBER 2010

ADM HELPS CREATE HOME WITH ONLY TWO RADIATORS!

A homeowner in Clayton Le Moor, Lancashire, has been impressed with the unbeatable energy efficiency of combining a SIPS construction dwelling, with a heat recovery ventilation (MVHR) system.

ADM supplied the MVHR system to David Hartley, who had commissioned SIPS@Clays LLP to build his new house using its Structural Insulated Panel system.



Over the years, ADM has supplied a number of MVHR systems to SIPS@Clays LLP. Structurally Insulated Panels (SIPS) are one of the most effective ways of creating an energy efficient building and when combined with an MVHR system, can significantly reduce heating and cooling requirements.

The energy efficiency of the new build property is so good, it only needs two small radiators. These are both located in the bathroom and consist of a small 600mm radiator and towel warmer. Heating to the property is provided by a single wood burning stove.

The MVHR system collects stale moist air from inside the house from areas such as the kitchen, laundry and bathrooms. This stale contaminated air passes through the HRV unit and is extracted to the outside. Clean fresh air is then drawn from the outside and as the two air streams pass each other, the heat is transferred from the outgoing stale air to the fresh incoming air. There is no mixing of air streams.

The MVHR system circulates this warm, fresh, filtered air around the house through ducting installed in the void spaces of the property, resulting in a requirement for only two radiators.

During winter, the MVHR system installed at the Hartley's property is able to capture over 90% of the energy from the outgoing stale air, before delivering it as warm filtered, preconditioned air into the living areas.

Energy efficiency hasn't been the only benefit of installing the MVHR system for David Hartley and his family as they have noticed a significant reduction in condensation too.

Moisture in the home is created by breathing, cooking and washing – a typical household of four people can produce up to 18 litres of moisture per day. The SIPS construction, which creates a virtually air tight building envelope, means that this moist air is unable to escape to the outside, which happens naturally in older properties that, for example, have poorly fitting doors and windows.

Whilst an airtight building is essential to reduce heat loss, without a continuous flow of fresh air, the internal atmosphere will quickly become stale and heavily contaminated. If this stale air is not removed it will cause major problems with condensation, mould growth and aggravate breathing related health problems.

Fitting an MVHR system is one of the most effective ways of reducing relative humidity to below 60 per cent, minimising condensation, whilst at the same time addressing the problems associated with mould growth and dust mites.

For more information on ADM Systems, telephone: 01756 701051. Alternatively visit the website at: www.admsystems.co.uk

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