

First results show Sanyo Carbon Dioxide heat pump delivers exceptional efficiency in UK conditions



- UK's first test site confirms excellent performance and efficiency.
- Site chosen was 200 yr old solid stone walled cottage in Exmoor to test the unit's efficiency in the milder conditions of the UK in contrast to previous testing in Scandinavia and Japan which are characterised by very low temperatures down to -26°C .
- Outdoor unit was installed in a temperature controlled workshop to allow the 'outside' air temperature to be controlled between $+20^{\circ}\text{C}$ and -2°C .
- Existing oil-fired boiler was replaced by a 9kW Sanyo CO₂ unit thus the heat pump took over all heating and hot water for the home in November and December.

- Water is supplied to radiators at 65°C and enough hot water for the owner's needs without needing electrical boost heaters.
- Results showed COP of 3.7 with water at 35°C and outside temp of 15°C . COP of 2.71 recorded with a flow temp of 65°C and an outside temp of 7°C .
- System was monitored using a ClimaCheck performance analyser.
- Results so far show that Sanyo ECO CO₂ system delivers exceptional performance in UK conditions and is set to be a market leader.
- A number of new sites are coming on line which will enable confirmation of the efficiencies of the system.



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