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Heat Pumps emit 95% fewer emissions than gas boilers a year, new study shows

12 months ago

A new study from STIEBEL ELTRON UK has found that heat pumps in a home setting emit almost 95% fewer carbon emissions than a traditional gas boiler annually.

The study, which took place over a 12-month period, found STIEBEL ELTRON's WPL-A 07 Premium air-source heat pump produced 250kgCO2e, whereas a conventional gas boiler in the same dwelling would emit over 3,500kgCO2e.

The leading manufacturer of heat pumps and renewable energy technologies carried out the study to showcase the value of a heat pump in reducing carbon emissions, with the research focusing on its performance in a four-bedroom home.

As well as showing significant carbon savings, the heat pump maintained a comfortable indoor temperature above 20°C all year round, with a Coefficient of Performance (COP) consistently exceeding 4.2, highlighting its high energy efficiency.

Meanwhile, the heat pump cost £750 a year to run, some £250 less than a traditional boiler in the same setting, with the unit's reduced energy consumption contributing to long-term savings on utility bills.

STIEBEL ELTRON UK monitored the performance of the heat pump using real-time reporting and data analytics via the company's monitoring software, providing valuable insights into its efficiency, cost-effectiveness, and environmental impact.

Known for its commitment to innovation and sustainability, STIEBEL ELTRON's technologies are designed for both residential and commercial use, offering efficient heating, cooling, and hot water solutions.

Mark McManus, STIEBEL ELTRON UK Managing Director, said: “There is a growing onus being placed on technologies which will significantly reduce carbon emissions which come from homes and buildings. These results show that a heat pump does exactly that.

“Consumers who are exploring the possibility of a heat pump can have confidence that it will deliver huge carbon reductions, maintain a constant and comfortable indoor temperature, and perform efficiently while bringing cost savings at the same time.

“As the environmental benefits become more prominent and the need for more carbon efficient homes becomes greater, demand for heat pumps is only going to increase in the years to come. At STIEBEL ELTRON we’re looking forward to meeting this demand, equipping both consumers and installers with the technology, and knowledge, to transition towards greener energy solutions.”

A world leader in renewable heating solutions, STIEBEL ELTRON UK is focused on growing its offering to the UK’s heat pump market as it looks to drive forward their adoption across the country with the most innovative technologies.

Most recently, STIEBEL ELTRON UK partnered with solar panel provider Solarwatt to deliver renewable energy powered homes across Britain, with the partnership offering a holistic approach to the implementation of renewable technologies to maximise energy efficiency and cost savings.

The company has also invested in comprehensive training for installers. With an initial £350,000 investment into a new state-of-the-art training centre and programme in November 2022, the company expanded the facility at its headquarters in Bromborough, Wirral, in September last year to increase capacity for new heat pump installers.

The company has also fine-tuned its training courses to help aid gas boiler installers looking to transition to a growing base of heat pump installers as demand for the technology increases.

Meanwhile, the company expanded its operations into the Irish market in February this year with a view to delivering renewable heating technologies and driving greener homes across the country.

Throughout 2024 the company is committed to growing every aspect of the business, from investing in new renewable energy technologies and products, to further developing its training facilities and workforce.

For more information visit: www.stiebel-eltron.co.uk