

Sandburn Hall chooses STIEBEL ELTRON heat pumps

Hotel replaces oil fueled boilers with air source cascade



Luxury hotel and golf course goes green

2 cascades of 4 WPL 25 air source heat pumps installed by RKM Plumbing and Heating with 1500L buffer tank and 2 x 500L DHW Cylinders

Key features of the project

- › 2 Cascades of 4 heat pumps controlled independently to provide complete control and quick reaction times due to the high demand from the restaurant and wedding venue which are constantly in use alongside the sports bar for the golf club and associated changing facilities
- › a total heating output of around 112kW @ -4°C outside temp
- › 28kW of power feeding the DHW tanks
- › Remote monitoring using Internet Service Gateway connected to the BMS System for the entire site, ensuring the team are aware of the status of the system at all times
- › The system was installed and commissioned in late August 2023



On site consultancy by STIEBEL ELTRON team provided ideal solution to rising bills

Opened in 2005, Sandburn hall was originally served by oil heating. With running costs rising sharply from £23.5k + vat in 2021 to a whopping £42.5k + vat in 2022, as cost of living and fuel increases hit the UK economy, a new approach was needed.

After visiting the site, Nick Maddison and Ian Milner of STIEBEL ELTRON were able to offer a design for a renewable alternative that would be able to cope with the size of the building and take advantage of the planned solar installation.

Ray from RKM said, "STIEBEL ELTRON were excellent from start to finish on this project and are still optimizing the system as we go through the seasons. Technical Support was available from both Nick and Ian at all times and were never unreachable when quick answers were required.

"The system was installed and commissioned in late August 2023 and after our first winter has returned some pretty impressive figures when it comes to electricity consumption/usage. We have yet to reach the commissioning anniversary but projected savings on oil alone look to be in the region of £26k + vat. This would mean a return on investment in 7.5 years without the benefit of our planned solar array."

Adam, RKM's lead engineer added, "The quality of the STIEBEL ELTRON equipment and planning support is second to none making fitting it a pleasure. We've already installed another single WPL 25 for another part of the complex that wasn't included in the original brief and the support was exactly the same from start to finish. We're looking forward to installing more systems on a domestic development in the coming weeks!"

Simon Buckley, Operations Director at Sandburn Hall said, "I cannot speak highly enough of the team at STIEBEL ELTRON who are constantly making changes and adjusting system parameters to maximise the savings and benefits our new system is bringing to Sandburn Hall. Our club members and customers have noticed the building in all areas is much warmer during colder periods and is ticking sustainability and green credentials at the same time. A massive thank you to the team at STIEBEL ELTRON and RKM Plumbing & Heating."



Views of plant room in progress

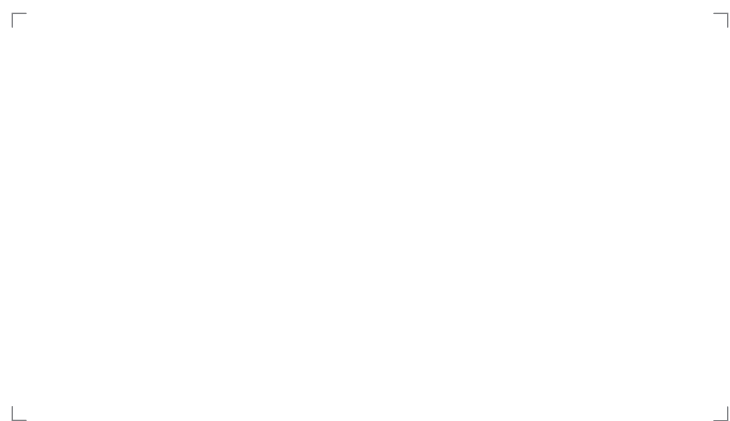


View of plant room



Heat pump controllers

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