

As part of a recent reorganisation within the SAACKE Group and to reaffirm its commitment to the customers supported by the dedicated UK team, **SAACKE Combustion Services Limited** has been launched.

Exeter Hospital benefits from SAACKE's continued support



By using the experience and combustion knowledge within the Group maintains a serious presence in the markets serviced from the UK. With a strong belief in national coverage by local engineers SAACKE will continue to offer the unparalleled customer service people have become accustomed.

5 Regional Offices and a team of 50 ensures total UK coverage as well as support for our overseas clients. In early September the company will relocate to new premises with the details given below.

Many clients have benefited from the expertise offered by SAACKE some have commented as follows.

After the successful DDCC SCanView conversion at Royal Devon & Exeter Hospital the Hospital Engineer, Tony Harrison and Steam Engineer Toby Berry commented.

"We have had SAACKE burners on site since the new Energy Centre was built 18 years ago and have had good service from them. However we were beginning to have some odd lockouts and failures due to component

wear, some of which were becoming obsolete. After discussions with the local SAACKE Technicians we decided to upgrade to the SCanView system on all of our boilers. The conversion took about 5 days per boiler but having 4 boilers it was not a concern".

"It has been just over a year and we have been really impressed with the results, we are sure there is a fuel saving but due to the nature of our hot water usage it is difficult to quantify plus our main load is supplied by a CHP. The big advantage to us is the additional turndown we now have which means even at extremely low load the duty boiler keeps running and does not cycle on and off, which can lead to nuisance lockouts. This also reduces cycling stresses in the boiler which our Boiler Insurance Inspector from Zurich was pleased about".

"We also had Inverters fitted to our FD fans and this has shown a reduced energy usage and noise breakout from the boiler house".

"Part of the conversion was a modified gas train which replaces 4 pressure switches with a self-testing pressure transducer which reduces maintenance".

"My Engineering staff really like the HMI touchscreen which is extremely user friendly with a full display of what is happening with the burner during the light up and shut down sequence. It

also provides a wealth of information regarding faults and fault history, and the ability to test safety functions and log the results. The main control panels also look tidier as SCanView does away with nearly all of the original lights and switches".

The Saacke DDCC SCanView is the latest in burner control technology combining Burner Management and fuel/air ratio controls. The SCanView is a microprocessor based control system with pre-programmed burner management for burner start-up and control. It is also certified for use within a SIL3 Loop in accordance with EN61508.

By replacing the out-dated linkage system on older burners the DDCC SCanView will provide end users with significant fuel savings. Customers independently advised fuel savings ranging from a reduction of 7% up to a huge reduction of 19%. Actual savings will be dependent on the operating regime and of the combustion plant.

The following are extracts from a report on another recent DDCC SCanView conversion.

Natural gas – The existing burners were not replaced, DDCC SCanView, air sealing dampers, oxygen monitoring and trim control system and VSD inverters were retrofitted to these burners.

Periods before and after installation was used to gather data in order to show any improvements gained.

Natural gas – pre conversion the low fire gas usage was 164m³/h, after installation it reduced to 132m³/h thus providing a 19% saving.

Electricity – inverter installation gave an 82% improvement of FD Fan power used.

Environmental – readings were taken for a 30 day period and there was a 5.5% reduction in NOx emissions.

Boiler efficiency – using the data it was found that the boiler efficiency improved from 80% to 89%.

All of the improvements can be directly related to removal of hysteresis by installation of DDCC SCanView technology'. ✨



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