

London Hospitals Upgrade Burners and Controls to Significantly Improve Energy Efficiency

Guy's and St Thomas Hospitals in central London are both benefitting from energy savings delivered by Autoflame's turnkey boiler house projects. Autoflame equipment was specified, and they successfully tendered to deliver the energy efficient upgrade for both Guys and St Thomas's hospitals.

Guys's Hospital was originally upgraded in 2006 with Autoflame Micro Modulation Controls, the hospital monitored a step change reduction in energy usage and this led the Trust to invite Autoflame to make recommendations to carry out an energy saving project for the steam boilers at St Thomas Hospital.

Autoflame recommended that the hospital consider replacing the existing Saacke Rotary Cup burners using DDC controls to a Limpsfield Burners with Autoflame Mk7. Autoflame worked closely with the hospital and put together a report detailing the existing combustion analysis and calculated what gas savings could be achieved by upgrading the burners and controls to Limpsfield with Autoflame. A performance guarantee was offered on the combustion performance of the new equipment; O₂ levels throughout the firing range were guaranteed to be no greater than 3%. With optimum efficiency in mind the Limpsfield Burner has been engineered to be a low excess air burner. Autoflame Combustion controls ensure repeatability of this optimum performance.

Autoflame's engineering team worked around the needs of the hospital ensuring that 3 out of the 4 boilers were online throughout the project, to meet steam demand. The hospital monitored an impressive gas saving and was so pleased with the results, the reliability of the equipment and improved functionality that they invited Autoflame to look at a similar burner replacement project at Guys Hospital which is scheduled to be completed in 2017.

Existing Equipment:

Inefficient Saacke burners using DDC controls

Solution:

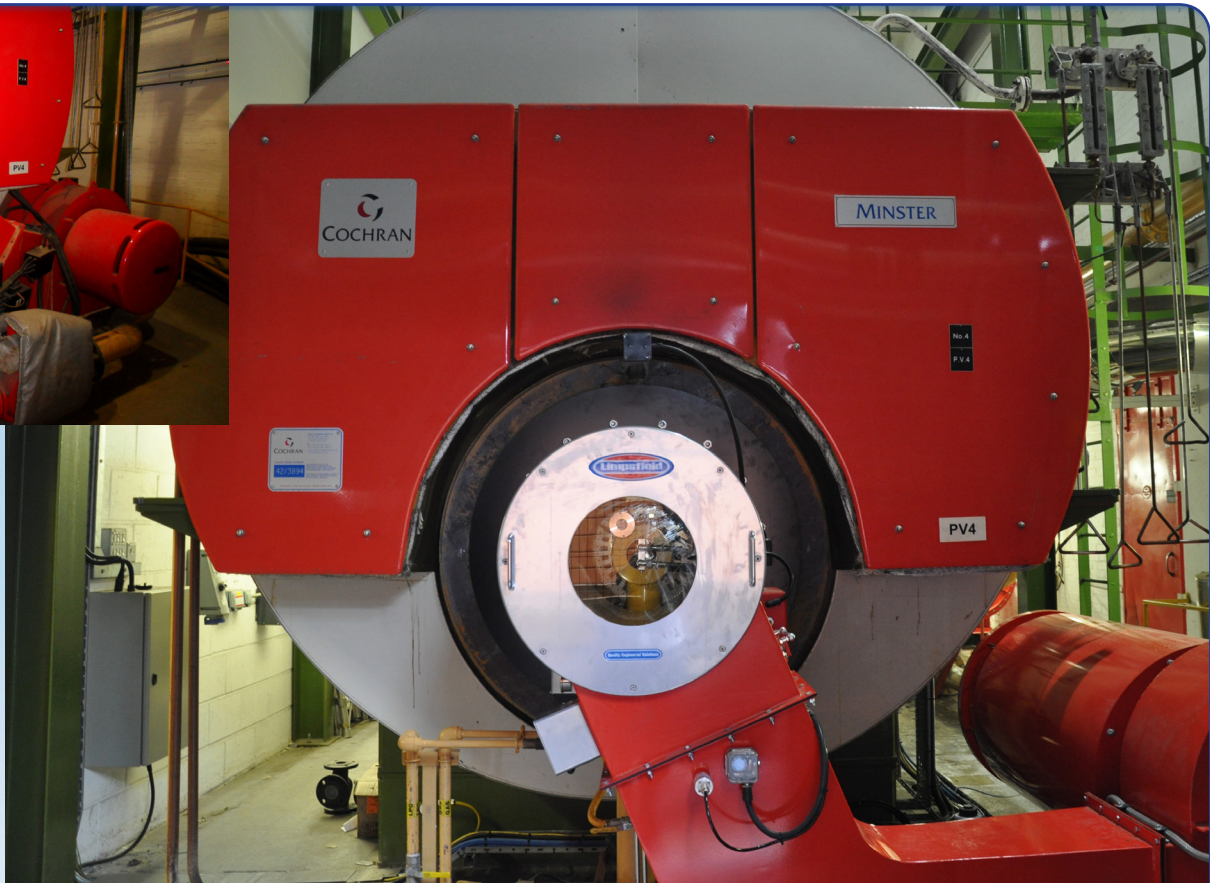
Autoflame Mk7 MM Control System with Limpsfield Burners

Benefits:

- Reduced emissions
- Enhanced safety
- High level of precision and accuracy throughout the system
- Energy and cost savings
- Increased combustion efficiency

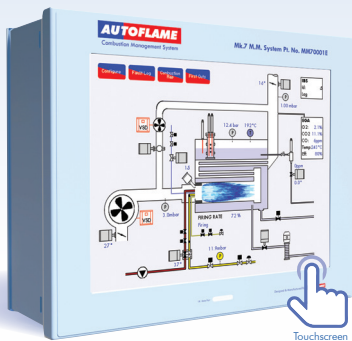


Before

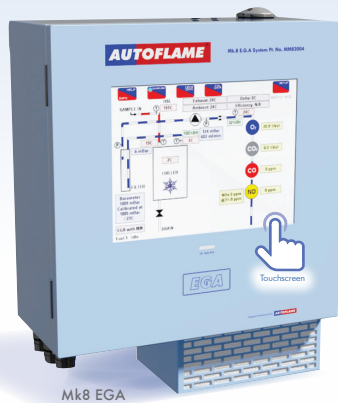


After

Installed Technology



Boiler control



Emissions monitoring & trim



Managing & monitoring multiple boilers



Autoflame operates worldwide with 90+ technology centres performing installation and support. Founded in 1972, Autoflame is a British manufacturer based near London. It ensures industry-leading quality control and innovation by performing in-house R&D, engineering, software development, manufacturing production, and technical support.

Autoflame Engineering Ltd.
 Phone: +44 (0) 845 872 2000
 Fax: +44 (0) 845 872 2010
salesinfo@autoflame.com

Contact us to receive a complimentary fuel savings and emission reduction report.

CS-SINK-210714

Unit 1-2 Concorde Business Centre, Airport Industrial Estate, Biggin Hill Kent TN16 3YN, England

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