



AkzoNobel



Paint Manufacturer Achieves Energy Efficiency Through Renewal

"Now the installation is completed, I would like to express my appreciation to your team who were under extreme pressure to complete the installation within the tight shut down programme. On one of the days your team worked beyond the twelve hour shift. At the end of each day they cleaned up any debris to keep the area tidy. The team were a credit to your company "

Barry Wisbey, AkzoNobel, Slough

AkzoNobel, formerly known as Imperial Chemical Industries (ICI) is a global paints and coatings company with operations in more than 80 countries. Its Slough manufacturing site were looking for ways to cut the emissions produced as a result of their production process and wanted a sustainable solution that would reduce their overall operating costs.

They chose Autoflame to deliver their natural gas energy efficiency project. The existing burners were replaced with Limpsfield high performance burners and bespoke control panels were designed and manufactured by Autoflame for the project. By using the Autoflame Micro Modulation Control System the amount of air and fuel passing through the burner is controlled to specific ratios, minimising harmful emissions, increasing combustion efficiency and enabling repeatable optimum performance.

Maintenance work has a negative impact on production, so it was essential the installation was completed within the strict timeframe. Autoflame worked closely with onsite project managers to ensure the project went smoothly and was completed to specification.

Existing Equipment:

Two dated, inefficient burners and combustion system

Solution:

Limpsfield burners and Autoflame MM Controllers, control panels

Benefits:

- Reduced maintenance downtime
- Reduced operating costs
- Reduced emissions
- Improved productivity
- Increased combustion efficiency
- Controlled air/fuel ratio



Before:

- ◆ Mechanical system
- ◆ Dated burners
- ◆ Inefficient and costly operating



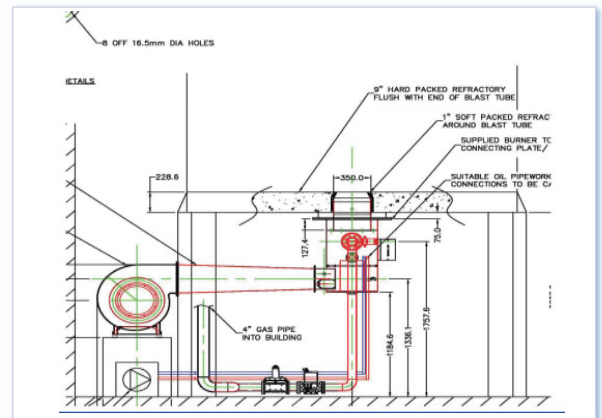
After:

- ◆ Limsfield high performance burners
- ◆ Bespoke Control Panels
- ◆ Autoflame Micro Modulation System

The new system has also reduced maintenance downtime, improving productivity. AkzoNobel use a gas fired burner unit to heat a heating oil (Thermex) which is pumped through a heat exchanger transferring the heat to the resin. During the batch process, depending on the resin being produced, the batch temperature can be as high as 380°C. The installation went well and AkzoNobel were delighted with the standard of



Autoflame operates worldwide with 60+ 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.



Project Drawings

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