

+70% Saving



EnerJon

Energy Efficiency

Warehouse Heating Efficiency Improvement

A multi-national organisation wanted to reduce warehouse energy consumption, one of the projects identified and specified by Enerjon was the replacement of the existing inefficient direct fire gas heating system. The existing direct fire heaters ran continuously, pulled 100% fresh air and were consuming a staggering +2,400,000KWH of gas per year, Enerjon calculated the warehouse annual heat requirement to stay at temperature was less than 650,000KWH annually.....the existing heating system was wasting nearly 1,800,000KWH of gas annually.

The efficiency improvement project involved:-

- **Installation of data loggers to gather current energy consumption.**
- **Full up front costs / saving analysis and summary report.**
- **The generation of area heating requirement specification.**



The project installation included:-

- Removal of the existing heaters.
- Modification of the gas feed pipework, electrical supplies, civil bases and building penetrations.
- Installation of new 100% air rotation units.
- Commissioning and setting of new control logic.

New externally mounted air rotation unit.

The Results

Following the installation and full commissioning of the new air rotation units the following warehouse area heating energy improvements were achieved:-

- **A 72% reduction in the warehouse area gas consumption, the practice of heating stone cold fresh air from outside removed.**
- **Annual gas savings to the site of approximately 1,700,000 KWH, reducing annual carbon emissions by 323 tonnes.**
- **Annual electrical power saving of 135,000 KWH, reducing carbon emissions by another 58 tonnes /yr**
- **Overall warehouse heating system efficiency improved from 27% to 94%.**
- **Area temp maintained within required temperature band all year.**
- **Heating system now only operates when required, this significantly reduces the annual running hrs increasing time between major service work and providing further cost savings.**

So how efficient is your heating system?.....contact Enerjon and we will show you

Enerjon

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