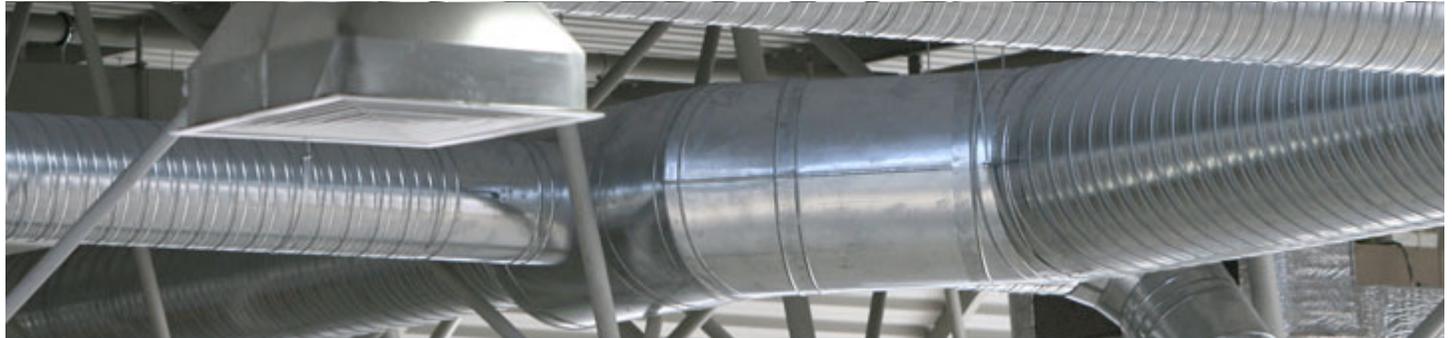




### Summary



<b>Industry:</b>	None
<b>Application:</b>	Air Handling Units
<b>Actual Saving:</b>	£233 pa
<b>Payback Period:</b>	undisclosed



## Revo Air Filters Improve Plant Efficiency

Saving 30% in operating costs and the equivalent reduction in CO<sub>2</sub>

### ISSUE

A modern milk processing facility in West Yorkshire identified the need to review energy consumption throughout the whole production process. As a large user of electricity the Air Handling Units providing ambient air were identified and became the subject of an energy efficiency review by ERIKS.

### SOLUTION

The survey identified an installed base of around 220kW, frequency inverters were already installed which ensured that motor speeds were adjusted for optimum efficiency.

Air filters have an effect on the performance of any Air Handling Unit; ERIKS selected one of the units and fitted a new single Revo II Filter, which replaced the existing panel and bag system. As part of a recommended maintenance regime the assembly was also cleaned to ensure maximum performance.

The air flow was monitored both before and after the new filter was fitted and an improvement of 15% was measured. In itself the improved air flow offers no obvious cost saving but the customer was then able to return back to the original air flow by turning the inverter down by 12.5%.

The reduction in electric motor speed resulted in a saving of around 30% in operating costs and the equivalent reduction in CO<sub>2</sub>. Based on the absorbed power of 4.25kW this equates to a reduction of 0.53kW and £233 in annual operating cost.

### OTHER BENEFITS

- More Efficient Filtering - Increased air flow
- Integral Pre Filter Layer - Removal of panel filter = reduced cost and inventory
- More Efficient Filtering - Potential for reducing cost and carbon footprint
- Interchangeable Replacement - No re-engineering cost

### FURTHER COMMENTS...

As a result of the trial all filters will be replaced with the New Revo II

### MORE INFORMATION

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