



Summary

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|------------------------|--------------------|
| Industry: | Quarrying & Mining |
| Application: | Drier Extraction |
| Actual Saving: | £5,000 pa |
| Payback Period: | n/a |



Cost Savings Through Energy Reduction

ERIKS expertise ensures energy savings with energy efficient product solutions

ISSUE

This Asphalt Plant utilises a Reverse Flow Bag House to contain dust from the drier extraction. The reverse flow control is in place to prolong the effective lifespan and efficiency of the bag filters. Ultimately, the filters do have to be replaced.

SOLUTION

The opportunity for energy saving here, was found by fitting an inverter to the 90kW fan motor. When the filters are new, there is an excess of extract air flow. The inverter is used to reduce the airflow down to a lower acceptable limit (ie: the same flow before the filters are changed). A pressure transducer is installed inside the drier, to ensure that the required vacuum is present, whilst the inverter automatically adjusts the fan speed as the filters become choked. Once the fan speed reaches its maximum, the lifecycle of the bag filters has concluded. Renewal of the filters, then yields more energy savings. The benefits of this upgrade are an improved filter lifespan, and an energy saving, yielded from speed control of the fan.

OTHER BENEFITS

FURTHER COMMENTS...

By choosing ERIKS the customer took advantage of on-site technical support, a complete Drive Package Solution and fast efficient turnaround.

MORE INFORMATION

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know-how makes the difference