

BROWNING'S

ENERGY EFFICIENCY

Why pay for pumps and fans to waste energy?

Control equals savings. That is our straightforward promise, variable speed drives (VSDs) give you the ability to ensure the pumps and fans that are commonplace throughout a diverse range of industry and service environments use no more energy than is required to do their jobs. We can deliver the kind of energy savings that can't be ignored and can often pay for themselves in 10 to 12 months.

Motors that run continually at full speed cost your business considerable amounts of money. With variable speed drive technology, we can control the fans and pumps that waste energy needlessly, giving exact flow rates to match needs. **With a 20% reduction in speed, a 50% reduction in energy can easily be achieved.**

Why pay for unnecessary wear and tear?

Fans and pumps that work harder than needed, will inevitably have shorter life spans due to unnecessary wear and tear. We can help you to prevent this and as well as extending the working life of your systems, you will also see a significant savings in maintenance and repair bills plus a noticeable reduction in ambient noise pollution.

Solving the over-specification culture!

It is estimated that many systems are as much as **20 to 30%** oversized and then controlled using bypass or damping techniques, which as a consequence wastes a huge amount of energy and money. This has been identified as an area where considerable financial savings can be made. **Assume a speed reduction of 20%**

Calculation for energy usage: Power of motor x no of hours x cost of energy p/kWh



Calculation for energy with VSD: Motor power is multiplied by cubed root of speed
Giving $22\text{kW} \times (0.8) \times (0.8) \times (0.8) = 11.26\text{kW}$



Annual savings = **£8,467**

Keeping ahead of Legislation

As environmental pressure grows all businesses are being urged to reduce their **Carbon footprint**. Where legislation requires action costs are sure to follow. Many factors combine to form the optimum solution. Let us advise on both **CRC** and **Enhanced Capital Allowance**, allowing your business to tap into further savings.

Let a survey reveal your payback time?

Due to the expert knowledge of our experienced engineers we are able to answer the key question facing every plant or energy manager.

What is the payback time? With a detailed on-site survey we are able to take full account of your individual needs we can then help to determine the level of savings to your business. To discuss our full range of services in more detail please do not hesitate to contact us and we will be pleased to assess your requirements and advise as appropriate.

