

**Intelligent  
Compressed  
Air Control  
For Industry**



## THE ECONOMICS OF ENERGY SAVING TRANSLATE INTO IMPROVED PROFITS...



Energy saving in action at a leading pharmaceuticals company

In today's pressurised global economy the economics of energy saving make sound financial sense. International agreements on global warming mean that companies have to undertake energy saving measures as a matter of course if they are not to suffer financially from legislation such as the Climate Change Levy. However, what is not widely realised is that the savings made, often at relatively low cost to their ongoing value, are a direct profit contribution to a company's bottom line.

## COMPRESSED AIR REPRESENTS 10% OF INDUSTRIAL ELECTRICAL CONSUMPTION, BUT MUCH IS WASTED...

EnergAir, a new but highly experienced energy efficiency consultancy, has been formed to help companies achieve these savings. The consultancy concentrates on the compressed air user, putting in place control and monitoring products that will

make a noticeable difference in a matter of days. This is important because compressed air represents 10% of all industrial electrical consumption and in many cases, companies use their compressors inefficiently and have inadequate distribution systems.

## ENERGY SAVINGS OF AS MUCH AS 35% ACHIEVABLE...

EnergAir's twin aims are to reduce the electrical consumption of these systems and to increase their efficiency. By applying EnergAir's control philosophy, together with industry best practice as developed by EEBPP (Energy Efficiency Best Practice Programme), savings of as much as 35% should be achievable.

## SPECIALIST DISTRIBUTORS ENSURE NATIONAL SERVICE AT LOCAL LEVEL...

EnergAir covers the UK with a network of local specialists who are able to advise on ways to improve compressed air system performance. The range of services offered include air performance audits, monitoring, and putting best practice operating procedures alongside intelligent control technology to continuously improve compressed air system efficiency and reduce downtime.



## ENERCON AIR MANAGEMENT SYSTEM THE KEY TO SAVINGS...

The essence of EnerAir's service is the Enercon Air Management System: a modular collection of products and services which includes System Controllers, Interface Modules, Enersoft PC Monitoring and Control Optimisation Software, Variable Speed Drives, Data Logger and Analysis software and Active Network Interfaces. These products ensure that each and every element of the compressor installation - filter, dryer and compressor - is connected and monitored either on site or remotely - 24 hours a day - ensuring all components are used at maximum efficiency.

## EXAMPLES HIGHLIGHT POTENTIAL FOR SAVINGS...

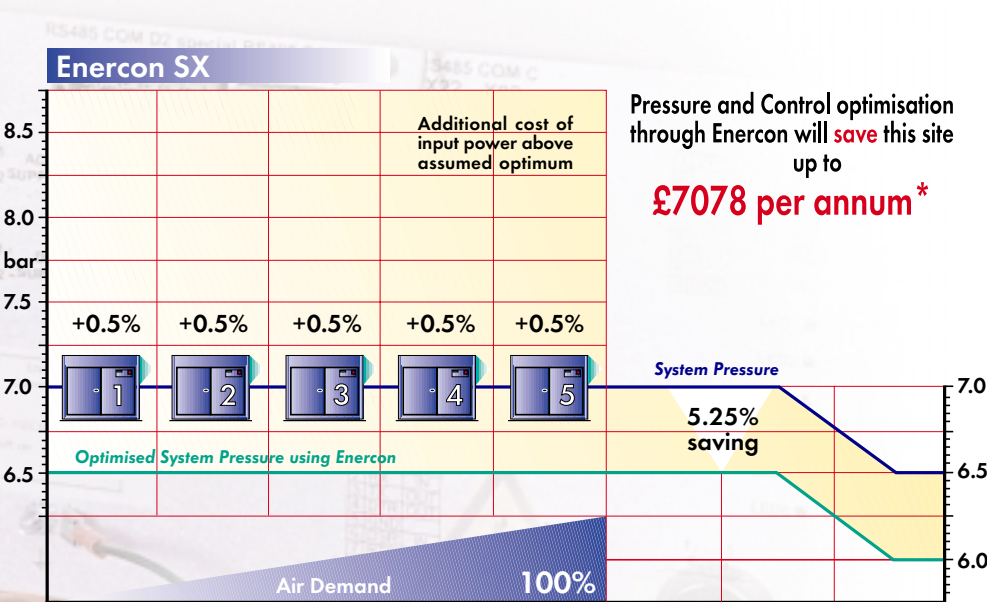
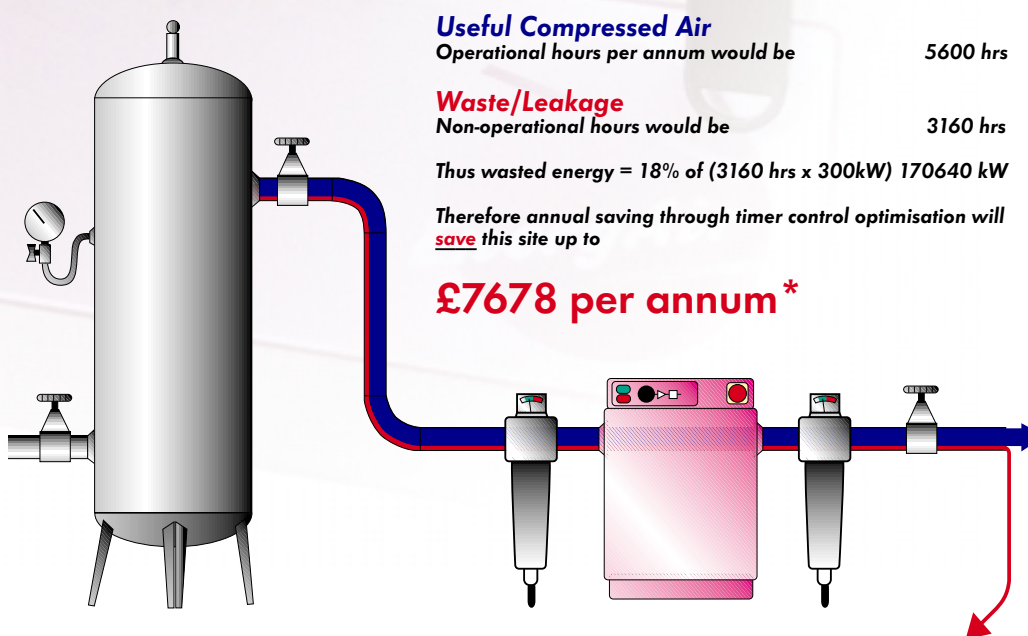


Figure 1

The potential for energy savings using the Enercon Management System is ably demonstrated in the two examples shown below. The first, Figure 1, shows the positive effects of using Enercon for pressure and control optimisation of a multiple (in this case five) compressor set.

Figure 2, shows the dramatic effects that the Enercon system can provide in improving overall system efficiency. The example takes a typical leakage rate for a system of 18% of annual system output and shows the beneficial cost effects of shutting the system down when it is not required (non-production periods, weekends and holidays).



\*Assumes: 2 shift (8 hour working shifts), 7 days per week, 50 weeks per annum  
5 machine (5 100kW approx.) system, a nominal air demand of 60% and a nominal package input power of 300kW  
System operating pressure of 7 bar, a cost of electricity of £0.045p and system leakage rate of 18%.

Figure 2

The first step in implementing an energy saving program is to contact EnerAir for a free, no obligation quotation and pay back estimation. Alternatively take advantage of EnerAir's NO capital cost supply, fit and installation plan which could allow your company to enjoy the energy savings benefits of installation immediately.



[www.energair.co.uk](http://www.energair.co.uk)

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