

# Saving energy the easy way

A NEW ENERGY SUPPORT PACKAGE SPECIFICALLY DESIGNED TO COMPLEMENT FACILITIES MANAGEMENT OPERATIONS IS NOW AVAILABLE FROM ERIKS. SAVING ENERGY HAS NEVER BEEN EASIER.

Today, there has never been greater emphasis on minimising energy consumption. Not only is there considerable legislative and ethical pressure to do so, in order to meet government environmental targets, but there is a powerful commercial argument in favour of it, too – power is expensive.

This means that facilities managers and Facilities Management (FM) companies are constantly looking for ways to reduce energy consumption and, consequently, reduce costs. There are a number of ways of doing this, and one of the most effective is to take advantage of a new and comprehensive support package specifically designed to complement facilities management operations.

There are a number of packages available using sophisticated energy surveys to identify problems such as

un-lagged pipes, poorly fitted refrigerator doors and leaking compressed air lines. To do this, the company employs advanced techniques such as thermographics and ultrasonics. Thermographic surveys can detect heat loss both in the fabric of a building and in electro mechanical equipment itself, while ultrasonic inspection will locate problems such as costly air leaks from compressed air systems. Vibration analysis is used to identify excessive power consumption from both rotating and static equipment.

Following the survey, potential savings are calculated, helping facilities managers to identify priorities and determine the payback time on any capital expenditure they make. Advice about financing initiatives available through such bodies as the Carbon Trust can also be provided.

## Thermography – how it works

Every object, however hot or cold, emits energy. The hotter it is, the more energy it emits. Special cameras can detect this energy and convert it to visible light, assigning a colour which is related to the intensity of energy it has detected. The result is a thermal 'map' which shows where – and how much – energy is being lost in a building or piece of equipment.

## Ultrasonics – how it works

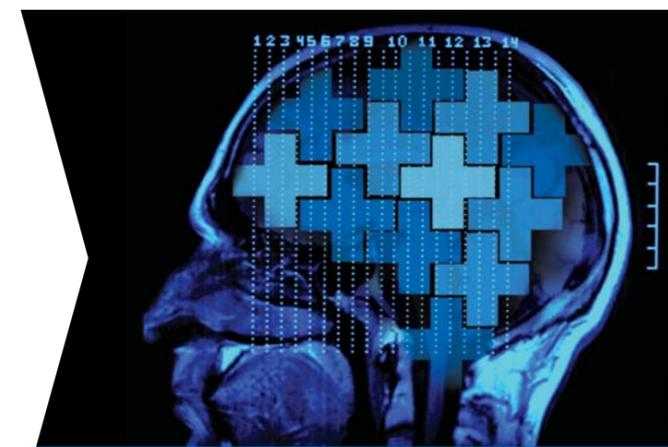
Ultrasound techniques generally sense sounds in the frequency range of 20kHz – 100kHz, which is beyond the human hearing range. These high frequencies are generated by a variety of air and gas leaks, worn bearings, and faulty electrical equipment, and can be detected and interpreted by skilled operators.



## Raise your glasses to a £60K saving!

One company which has taken advantage of this service is Coors brewery in Burton. Always looking for ways to further refine its energy efficiency, Coors initiated a survey using thermal imaging to analyse the energy loss throughout its facility. Costing less than £1000, the survey encompassed boiler houses, overhead pipe work, tank houses, brew house, powder rooms and outside areas across the No1 brewery. The resulting digital photographs alongside thermographic images highlighted hot spots, enabling ERIKS to calculate the total power loss through convection and radiation. The final report identified potential savings of around £60,000 per annum, though to achieve this, the brewery needed to invest in some repair work – which can also be undertaken by ERIKS. The thermographic survey also identified several steam leaks which were not taken account of in the total power loss calculations. As even a 1/4" hole can cost over £200 per week, eliminating these leaks is extremely important.

Coors, naturally enough, were delighted with the savings identified by the survey "The use of thermal imaging on the site is just another example of how we are embracing best practice," said Coors Energy manager. "Because of the non-invasive nature of the technology, the survey was carried out quickly and with no disruption to the site or production. There will be significant energy savings for us, which are important for our CSR (Corporate Social Responsibility) position, as well as our business and our bottom line."



## WE'VE GOT KNOW-HOW AND WE KNOW HOW TO USE IT.

1. Bearings
2. Belts, chains and couplings
3. Control systems
4. Filtration
5. Gaskets
6. Geared drives
7. Hydraulics
8. Industrial hose
9. Lubrication
10. Motors
11. Pneumatics
12. Rubber technology
13. Sealing technology
14. Valves and instrumentation

## THAT'S A BIG PLUS!

### A know-all, and proud of it

One of our clearest advantages is our technical expertise – a resource that's unmatched in companies of our type.

This means we can act as a powerful extension to your own teams, helping you to identify and resolve issues quickly and cost-effectively.

In areas such as bearings, for example, ERIKS is second to none.

### Creative thinking

Our unparalleled levels of technical know-how also means we have the ability to see beyond the immediate issue and provide a solution that delivers long-term value. And it means we can provide that spark of imagination and out-of-the-box thinking that will help your business stay ahead of the competition.

All this will be wrapped up in a service that is completely tailored to your precise needs, whatever they may be.

To find the know-how you are looking for, visit [www.eriks.co.uk](http://www.eriks.co.uk)

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