



Summary



Industry:	Construction and Building Products
Application:	Energy Saving for Showers
Actual Saving:	£5500
Payback Period:	

Efficient Inverter Controlled Pumps Save £'s

Pump solution alters its speed range to match demand

ISSUE

ERIKS approached a leading shower manufacture to discuss how we could help reduce their overall energy consumption across their pumping plant within their research and development department.

All new shower head designs are tested and developed at this facility and as such they operate a number of pumping systems. Following a review of the system ERIKS identified 3 fixed speed pump ideally suited for conversion to variable speed pump units.

SOLUTION

The ERIKS pump team reviewed the process and quickly identified that savings could be achieved by fitting, new modern efficient inverter controlled pumps. ERIKS specified three Grundfos E pumps fitted with integrated inverters for speed control.

In industrial water supply and cooling systems, E pumps with pressure sensors detect increase and decreases in pressure. The transducer sends back a signal to the E pump to alter its speed range to match the pressure requirements within the system.

The E pump continuously adapts its performance to the changing demands reflected in the differences in pressures of the water circulating in the system. Thus the lower demand for water, the smaller the quantity of water delivered by the pump.

These pumps were set in 'proportional pressure' mode, which enabled them to maintain a low pressure of 2 meters head to all the shower heads within the test area, no matter how many are running.

OTHER BENEFITS

- The pumps offered are fitted with Grundfos MGE energy efficient motors, and all CRE pumps from Grundfos have 100% Enhanced capital allowance and are included on the UK Governments Energy Technology list.

FURTHER COMMENTS...

This application is an excellent example of how ERIKS Pump Technology look at systems and are able to identify energy saving products which have very clear benefits in real time costs savings to the client.

MORE INFORMATION

ERIKS Industrial Services

Amber Way, Halesowen,

West Midlands B62 8WG

Tel: 0845 006 6000

Web: www.eriks.co.uk