



Summary



Industry:	Building Service
Application:	Replacement of Obsolete Pumping Plant
Actual Saving:	£11,649
Payback Period:	



Efficiency & Energy Optimised with Pump Solution

High efficiency motors fitted as standard

ISSUE

A university campus operated its own boiler house with 4 large obsolete Worthington Simpson split case pumps on MTHW duties. These old pumps were extremely inefficient, coupled with increasing maintenance costs associated leaking glands and parts that were now not available.

The old pumps were of a fixed speed design with no speed control and therefore ran irrespective of demand from the system which at times could reach flows of 800m³/hr of hot water, 24hr/per day.

SOLUTION

ERIKS pump technology offered modern Grundfos TP in-line centrifugal pumps with fixed speed 22kW motors. To maximise the efficiency of the pumps four 22kW wall mounted inverters were offered to ensure the pumps were optimised to the system, only supplying sufficient water to suit the demand of the system. In this way the university ensured optimum efficient and energy consumption, resulting in a considerable cost saving in consumed energy.

A further benefit was also achieved due to the vertical arrangement of the Grundfos TP pump design. These units now freed up considerable space within the plant room, with not requiring the previous long coupled pump arrangement. The Grundfos pumps are also fitted with modern easy to maintain cartridge mechanical seals rather than the previous packed glands. These seals now enable quicker and less costly maintenance activities to be undertaken.

OTHER BENEFITS

- The inline design allow straight pipework and thus often reduce installation costs
- The vertical design allows for easy dismantling and motor removal
- High efficiency motors fitted as standard

FURTHER COMMENTS...

This application is an excellent example of how ERIKS Pump Technology can provide advice on the correct product for the job. We often find many applications where incorrectly specified pumps have been selected and give clients on going issues over the years.

MORE INFORMATION

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