



### Summary

<b>Industry:</b>	Leisure
<b>Application:</b>	Swimming Pool Pump Operation
<b>Actual Saving:</b>	£5,256.00
<b>Payback Period:</b>	n/a



## Inverter Pump Saves Energy For Swimmers

ERIKS solutions delivers energy savings for swimming pool

### ISSUE

Eriks Pump Technology were approached to assess an interesting application with a client's outdoor swimming pool at a college in South Wales. The site operated an old obsolete fixed speed swimming pool pump, and as the unit was now beyond economical repair a new pump was required.

This was an ideal opportunity to offer a new modern pump with the added benefit of using inverter technology to save energy.

### SOLUTION

The swimming pool pump is sized to turn over the water a given number of times over a 24hr period, and overcome the differential pressure across the sand filters.

As the pool is not in use during the winter months ERIKS suggested using an integrated inverter pump, to slow the pump down over night, through the winter months when the full cleaning capacity is not required until the summer when the pool would be in full use. Using the functionality of an inverter in constant pressure mode, this enables the pump to still deliver the water through the sand filters and system, but slow the volume of water being pumped.

A Grundfos NBE pump was selected and because of efficiency improvements the original pumps motor of 18.5kw, could now be scaled down to 11kw's. By calculating the client's energy usage using his old pump and motor and comparing it to the new modern Grundfos pump an easy win on energy costs could be achieved. In addition by calculating energy usage using the inverter over the winter months further energy savings could be achieved.

### OTHER BENEFITS

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

### FURTHER COMMENTS...

This application is an excellent example of how ERIKS Pump Technology look at applications and are able to advise on a wide array of systems, identifying the right product for the application whilst delivering additional energy savings.

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### MORE INFORMATION

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