



## Summary



<b>Industry:</b>	Other
<b>Application:</b>	Fire Pumps
<b>Actual Saving:</b>	£undisclosed
<b>Payback Period:</b>	undisclosed



## Smaller impeller enables fire crew to control their hoses

The new solution reduces risk of injury when filling up fire engines

### ISSUE

A fire station in Oxford were experiencing problems with two fire pump sets, they were generating too much pressure, which in turn was making it difficult for the fire brigade staff to control their hoses when filling up the fire engines.

### SOLUTION

The Fire Brigade recommended to the Chief Maintenance Engineer that he reduce the pressure generated by the pumps from 6.5 bar to 3.5 bar. ERIKS Oxford Electro-mechanical workshop were contacted to suggest a solution.

A flow test was completed using a non intrusive flowmeter to measure the flow while the pump was operating. The result was compared with the pump performance curve which demonstrated that by fitting a smaller impeller to each pump the new desired pressure could be achieved, without having to purchase and install new pumpsets.

### OTHER BENEFITS

- Compliant with the local fire brigade requirements
- Reducing the risk of an injury to fire brigade personnel
- The customer did not have to purchase two new pumpsets

### FURTHER COMMENTS...

The Chief Maintenance Engineer purchased the replacement impellers and while these were being fitted the pumps also had new mechanical seals and bearings fitted.

### MORE INFORMATION

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