



Summary



Industry:	Food and Drink
Application:	Centrifugal Rotor Water Jet Pumps
Actual Saving:	£9,000
Payback Period:	undisclosed

Fenner®



Save Time, Money & Energy with Fenner Inverters

Powerful and flexible control offering immediate energy savings

ISSUE

A large meat processing factory had two 45kW centrifugal pumps which were operating 24 hours per day, 7 days per week. The flow of the pumps was not controlled at all resulting in excess demand, that was not required for the application. This resulted in an opportunity to control the flow thus saving the customer energy consumption and reducing their costs.

SOLUTION

The customer contacted the local ERIKS service centre in Peterborough seeking advice to provide a suitable solution to control the flow of the pumps whilst achieving an energy saving.

The local service centre contacted the Core Competence Centre for Drives and Power Transmissions to assist in providing a solution that would meet the customers requirements.

A Fenner QD:VT inverter was selected and supplied in a panel, a transducer was fitted in the line to measure the actual flow requirements. The flow was controlled via the inverter which regulated the two pumps to work simultaneously, depending on demand during the course of the day.

OTHER BENEFITS

- Fenner QD:VT inverters are specifically designed for pump and fan applications
- Internal RFI filters are fitted as standard

FURTHER COMMENTS...

Due to the cubed law relationship between power and speed, the inverter was able to provide a significant energy saving by controlling the motor speed to provide actual flow required as opposed to supplying maximum flow all the time.

MORE INFORMATION

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