

# CASE **STUDY**

**RAPID RESPONSE**

**PUMPS FROM  
HAYLEY 24/7 DEXIS  
BRING WATER  
COMPANY IMPROVED  
OPERATIONAL  
PERFORMANCE**

CS00824/7



**HAYLEY**  
DEXIS

**HAYLEY 24/7 DEXIS**  
**MECHANICAL ENGINEERING SERVICES //**  
**UTILITIES - WATER**

Focus on **value**

**TRACK  
UP**

**KEY VALUE AREAS**



**SPEND**



**SERVICES**

**THE SITUATION**

The current fleet of rapid response pumps held by a UK water company was nearing the end of their life-cycles, and needed replacing.

The pumps perform a critical function out in the field, as they are used by engineers attending burst mains or outage events to maintain supply of clean drinking water to affected customers.

The pumps were designed and manufactured in-house by the HAYLEY 24/7 DEXIS team. Base plates were designed using in-house CAD software to satisfy measurements and strength, weight, and cooling requirements. The fabrication, machining, assembly and final testing processes were also completed at the HAYLEY 24/7 DEXIS workshop in Dudley.

and drive engines from the proven Vanguard range. This range is available off-the-shelf and therefore will allow any replacement to be sourced quickly.

The units have been proven by the customer to give improved efficiency and perform better with flow and pressure than their previous assets. This has resulted in the engines being able to operate at a reduced load, improving reliability and extending the lifespan of the pumps.

The team now offers full product and service support to the customer.

**CONTACT US!**

Get in contact with our team, today!

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**THE SOLUTION**

The client had a number of specific design criteria which needed to be met. The replacement pumps needed to be of stainless-steel construction and have a WRAS-approved mechanical seal, safe for contact with potable water.

One of the ageing pumps was sent to the customers' local HAYLEY DEXIS branch for inspection and to use as a basis for designing the replacement units. This pump was then sent to the mechanical engineering services division, HAYLEY 24/7 DEXIS, for reverse engineering.

**THE RESULT**

Comprehensive testing was completed, which determined component integrity, flow rate, and outlet pressure were up to standard. The client was then supplied with the requested quantity, complete with WRAS-approved seals



“  
**THE UNITS HAVE  
 BEEN PROVEN...  
 TO GIVE IMPROVED  
 EFFICIENCY AND  
 PERFORM BETTER...**

”

**KEY RESULTS**

Asset reliability improved.

Operational efficiency improved.

Service life of pump assets extended.





**HAYLEY 247**

**DEXIS**