



ENVIRONMENTAL TECHNOLOGY

Dry Gas Seal improves reliability and leads to a major overhaul program

A chemical plant in the UK was sealing an Aceto Digester feed pump with a dry running gas seal supplied by an AESSEAL® competitor. The seal was unreliable and failing on average every 3 months at a typical cost of over £3,500 per repair.

The plant has a total of 25 similar pumps fitted with the same seal, and requiring the same level of maintenance. AESSEAL® installed a Universal Dry Gas Seal (Type UDGS-EX) along with a gas supply panel, and an expeller to satisfy the customer's specific application requirements. The UDGS seal is a non-contacting gas lubricated mechanical seal that provides practically zero process emissions in service.

The trial installation ran for over 18 months without any issues and in its first year of operation saving around £11,000, rising to a saving of just over £16,000 in subsequent years. The success of the initial installation has seen a further 7 pumps converted with plans over the coming years to convert all remaining pumps, which will lead to a £273,898 per annum saving.



'UDGS Seal offers a £273,898 per annum saving'

Industry:	Chemical
Product:	Universal Dry Gas Seal (UDGS)
Application:	Aceto Digester Feed Pump
Payback Period:	3.2 Months
MTBF Increase:	500% (and counting)
Savings:	£10,956 year 1, £16,000 year 2
Reference N.O:	CH01159



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