AESSEAL®
ENVIRONMENTAL TECHNOLOGY

AESSEAL® cooling system saves company a fortune

A chemical company in the east of England has saved an estimated $1.1 million in downtime and loss of production after installing a Plan 54 Pumppac and Python Cooler to solve the problem of overheating seals.

The previous system used a competitor's single seal with an API Plan 62 steam quench. This had proved unable to cope with the effects of process liquid running at 180 degrees Centigrade. The result was seal failures every two weeks, bringing production to a halt.

Following consultations with AESSEAL®, the company decided to replace the existing system with the AESSEAL® Plan 54 Pumppac. This is a forced circulation seal support system delivering a continuous, pressurized, clean, and cooled external barrier fluid to dual mechanical seals, ensuring zero process emissions and maximum heat removal. It was installed alongside the AESSEAL® Python, an advanced air-cooled heat exchanger designed to cool mechanical seal barrier, buffer, and flush fluids. It relies on natural convection to cool air without needing a cooling water utility, making it a low-cost, low-maintenance option for demanding environments.

The new system was installed June 2025, with AESSEAL® engineers working on site alongside the customer's employees. It has now been working without a hitch for more than 12 months. The additional cooling and forced circulation delivered from the Pumppac ensures that the seals no longer fail, with the result that since its installation it has already saved the company more than a million dollars.

A senior engineer at the company said that they were delighted with the result.

"We were in big trouble," he said. **"Our previous seal supplier had clearly not understood what was needed. AESSEAL® came to our rescue and they have saved us a fortune."**

'Saving more than 1 Million dollars in the first year'

Industry:	Chemical
Product:	DMSF™, Pumppac and Python Cooler
Application:	Various Pumps
MTBF Increase:	2,500% (and counting)
Savings:	>$1.1 Million
Reference N.O:	TD3149671