



Helping one of the UK's leading Physics departments save money and be more environmentally friendly



University of St Andrews

Founded in 15th Century University of St Andrews is Scotland's first University, and is the third oldest in the English speaking world. The school of Physics and Astronomy is one of the UK's leading Physics departments that has an internationally recognised set of research programmes.

The school of Physics & Astronomy require Nitrogen to purge gas to a suite of LCMS units used for compound analysis. Their objectives to us were:

- Improvement on purity of Nitrogen
- Reduce Costs
- Help achieve sustainability goals

The CHALLENGE

Due to the sensitivity of the equipment that is supplied by the nitrogen, it is essential to ensure a constant supply and a consistent gas quality. Traditional bottled nitrogen was being used, however, the school of Physics & Astronomy wanted to have more control over their costs, wastage and improve on their environmental responsibilities.

The SOLUTION

After our analysis and understanding the customer's strategy, requirements and objectives, we recommended a nitrogen generation system from Parker. This complete solution has a unique design and advanced energy saving technology. The University now have more control over their Nitrogen gas costs, and are forecasting an annual saving of over £7000 pa, We expect the department will have a return on their investment in 12 months with anticipated savings in excess of 70%. The gas purity is exceeding what they had hoped for and, additionally they have reduced their carbon footprint as a result of this method of Nitrogen generation. This system will deliver huge savings over the lifetime of the generator.



The Feedback

We are extremely happy with the N2 generator CPA supplied. The install went very smoothly and was completed within the time frame promised. The quality of nitrogen is beyond what we could have hoped for with the ppm of O2 well exceeding our spec. As a result of this kit, we have been able to return some 40 bottles from the building with more still to go. I see this as a viable option to bottled gas, saving on rent, delivery and refilling charges.

Callum Smith
Supervisor,
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