

Profit from efficiency

Excalibur Slashes Airport Costs

Excalibur LPA has recently completed a major project to reduce the electrical consumption of air conditioning chillers at Manchester Airport by over 4,000,000 kwh.

Excalibur's involvement with Manchester Airport started with a pilot installation at the airport's Olympia House which was completed two years earlier. This was then monitored to determine the potential of Excalibur's technology to reduce power consumption.

With the results making a clear case for a larger scale project, Excalibur was given the green light to undertake the installation of Liquid Pressure Amplification and inverter control of condenser fans, as well as carrying out deep cleaning of

condensers on 13 chillers located around the airport.

With Several of the chillers operating on the ozone-depleting HCFC refrigerant R22, the use of which is to be banned from 2010, the airport also contracted Excalibur to compete a refrigerant change. All R22 was removed and replaced with ozone-friendly R422.

Excalibur has a long history of undertaking this kind of project, having completed similar work at Heathrow, Stanstead, Birmingham, Edinburgh and Glasgow airports. Excalibur staff are well used to the security implications of working 'airside' but the recently introduced iris scanning system at Manchester made gaining access to the job site more like

Mission Impossible than Terminal 3!

The project was completed with minimum downtime, avoiding the costly replacement of equipment and enabling the airport to remove ozone depleting refrigerants from site.

Manchester Airport is owned and managed by the Manchester Airports Group, a holding company owned by the ten metropolitan borough councils of Greater Manchester, and is the largest British-owned airport group in the UK.

The airport has won numerous awards, including World's Best Airport 1995 and Travel Weekly Globe Awards' UK Best Airport 2008.





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Testimonials

Manchester Airport

"Throughout the LPA project at Manchester Airport Excalibur provided a thorough and professional service ensuring the project was delivered on time with minimal operational disruption. The project delivered savings as quoted, the refrigerant change helped re-life ageing equipment and was seen as a great success, so much so that we are about to embark upon a second phase during 2010"

2 Sisters Food Group

"Excalibur installed LPA and inverter control to our Bitzer screw pack, the work was completed to a very high standard with minimum effect to production. Monitoring over the first 12 month period showed a reduction in power consumption of 38%. Several evaporators which had been starved of refrigerant now achieve temperatures where previously they struggled. There have been no reliability issues and we are benefiting from a system which is not only energy efficient but also provides improved refrigeration performance"

Norland Managed Services

"I would like to take this opportunity to thank you and all others from within Excalibur involved with the development of this project, from my initial involvement through to today's handover meeting. All of which has run extremely well, with any issues uncovered being easily resolved with the proactive nature of you and your site team, which are a credit to Excalibur. Hopefully, in the not to distant future I will have the opportunity to call upon Excalibur's assistance and experience again on another LPA Project. Though in between times I would thank you again for your support and guidance".