

CASE STUDY

Massive Energy Savings Thanks To Expert Advice

The Challenge

Hartlepool based Haani Cables manufacture around 4,000 different types of electric cables and distribute their products to thirty countries around the globe.

The family run business was keen to save on their energy usage and asked Airchannel to conduct an air usage audit and to suggest the best combination of equipment for savings and life cycle costs.

Airchannel's solution

Haani was looking to save a minimum of 10% of the energy costs associated with the compressed air systems, Airchannel advised that far greater overall savings could be made.

Following the audit, Airchannel suggested replacing the 4 fixed speed compressors at Haani Cables with a new CompAir L75SRF air compressor, saving the Company an estimated £10,000 annually in energy costs.

and precisely matching power consumption with air demand.

With a typical oil lubricated rotary screw compressor operating at 70% load, energy costs can account for 82% of the cost of ownership, compared to 62% with an LSR.

Airchannel fitted the new Delimon airblast aftercooler system outside, and consequently Haani is now using just 22Kw of electricity per annum on its cooling operations.

Conclusion

“We realised that our compressed air system was one of the biggest energy users across the whole of our operation,” says John Tuley, Haani Cables' Engineer Manager “And as a responsible company, committed to energy efficiency and the environment we took the decision to employ Airchannel, experts who could advise on and then install the most cost-effective energy efficient solution available.”

Additionally, Airchannel was asked to advise on the cooling water system. This had been positioned inside the factory and was consuming over 120 Kw of energy per annum with two large refrigerant chillers.

Experts in this field, Airchannel and Delimon working in partnership recommended the installation of a Delimon airblast aftercooler complete with moisture inhibitor for warmer days.

Results

The CompAir LSRF rotary screw compressor incorporates a variable speed switched reluctance drive system and an integral refrigerated dryer, making it the most energy efficient solution on the market today.

Airchannel estimates that the LSR speed-regulated compressor can produce savings in excess of 25% in energy and operational costs by eliminating energy loss during periods of unloaded running



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Airchannel, is the largest independent compressed air distributor in the UK, with an unrivalled reputation for reliability and superb service.

Combining nationwide coverage with a vast knowledge of the industry, gained from over 40 years of experience, Airchannel has the ability to design, supply and install energy efficient compressed air solutions and provide excellent product support, with reliability at the core of everything it does, meeting customer requirements now and in the future.

