



"Providing the perfect climate for your business"

Case Study:



Sintra Pulsion® Temperature Control Solution

Background

Norbrook was established in 1969, in Northern Ireland, and is one of the largest, family owned, veterinary pharmaceutical companies in the world. With a portfolio of trusted animal health products distributed in more than 100 countries, Norbrook have a history of product innovation; with significant investment in Research and Development; and a strong pipeline of products.

Temperature management of products from manufacture, through packaging, storage and distribution is critical to Norbrooks' quality standards. The Sintra Pulsion® was the solution of choice for Norbrook for their warehouses and packing areas.

Cross Group provided the system design, and carried out the onsite installation with minimum disruption to the production work schedules.

Cross Group have over 80 years experience in refrigeration and air conditioning, and are sole Sintra Pulsion® distributors for UK and Ireland

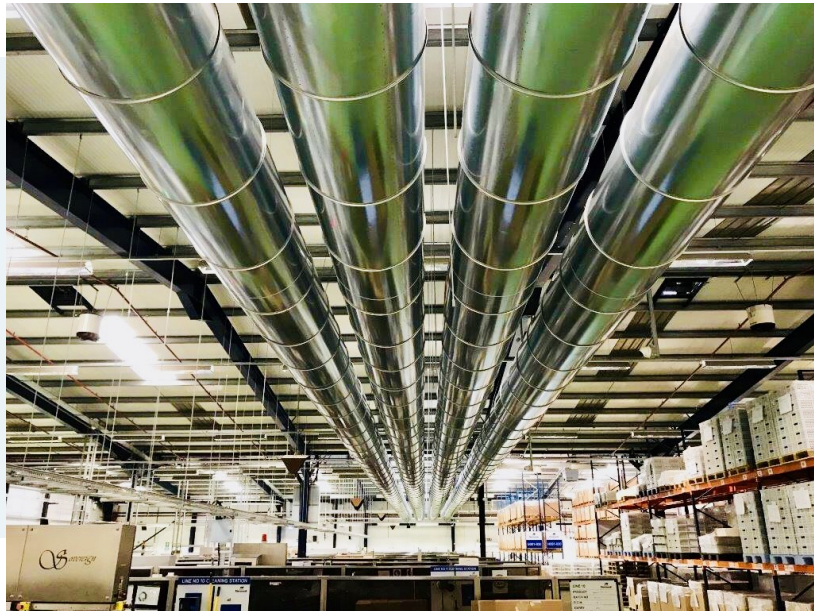


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The Challenge

Stable and stringent temperature control, combined with operator comfort were key elements identified by Norbrook for their warehousing and packing areas.

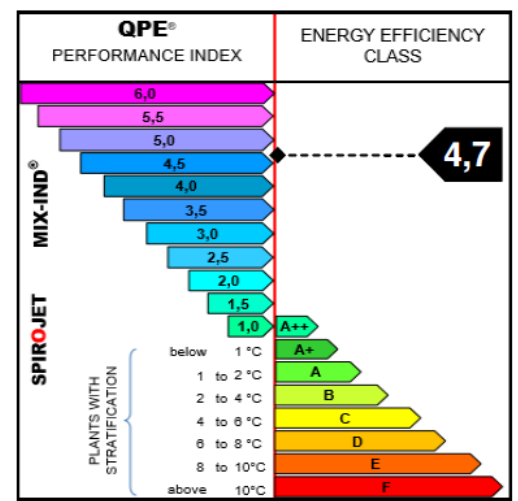
Capital and lifecycle costs along with ease and speed of installation were key drivers for Norbrook, in their decision for the innovative, customised Sintra Pulsion® solution.

The Solution

Sintra Pulsion® is a unique high-induction solution that delivers tempered air across all the areas, ensuring maximum comfort for the operatives, with no draughts and homogenous temperature stability to +/- 1 degree C. The Pulsers® recall large quantities of ambient air to mix with the input air. This mixture of input and surrounding air approaches design temperature within 1m of the Pulser and sets the total environment air mass in controlled motion.

Heating, cooling and fresh air is provided to the Sintra Pulsers by Rhoss Air Handling Units, incorporating fresh air, free cooling, and inverter driven fans.

AHU control strategy is bespoke, modulating the primary and secondary Pulsers .



Summary

Norbrook continue to deliver excellence and quality to their global customer base, aided by a unique, innovative, and patented temperature control solution.

Sintra Pulsion® provides a stable, safe environment for Norbrooks veterinary pharmaceutical products, with significant running cost savings, as compared with conventional diffusion type systems.