



Case Study:



KUEHNE+NAGEL

Sintra Pulsion® Temperature Control Solution

Background

Kuehne + Nagel has grown into one of the leading global logistics providers. Today Kuehne + Nagel Group is the worlds biggest sea freight company and has some 1,300 offices in over 100 countries, with around 79,000 employees.

K&N acquired a new warehouse facility in Dublin, for the purpose of controlled storage of pharmaceuticals

Cross Group provided the Sintra Pulsion temperature control system design, and carried out the onsite installation .

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



"Providing the perfect climate for your business"



58 Hamiltonsbawn Road Industrial Estate
Armagh, BT60 1HW

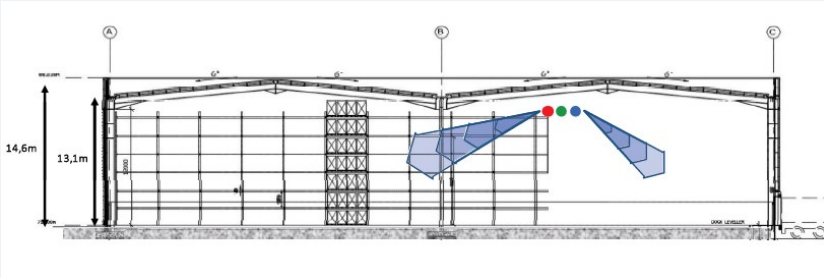
Tel: 028 3752 6090

Email: sales.ni@cross-group.org

Web: www.cross-group.org

The Challenge

Stable and stringent temperature was the key requirement for Kuehne & Nagel for their new warehouse building. Dock doors and marshalling area require a specific solution to prevent any temperature fluctuation when multiple doors are in use.

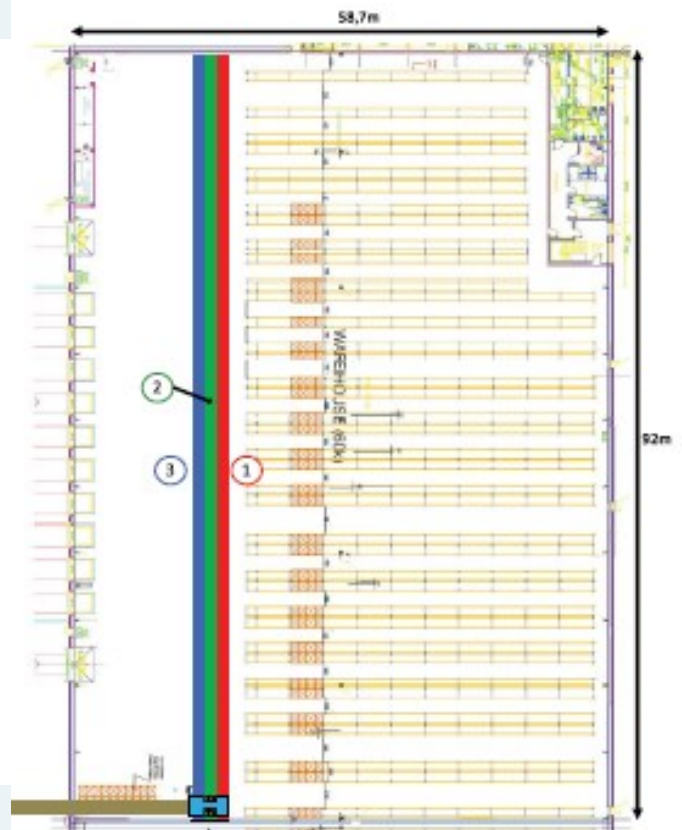


The Solution

The Pulsion Beam, consisting of Primary ①, Secondary ② and Technical ③ Pulsers are connected to 2 external AHUs, simultaneously treating the racking areas, marshalling areas and dock doors maintaining temperature to +/- 1 deg C of set point at all times.

The Technical Pulser ③ acts as an air curtain and prevents any temperature influence in the racking areas.

Large external doors are treated with a Sintra Variwind, a new patented solution that uses external ambient air to prevent air ingress while the large industrial doors are in use.



Summary

Initial installation was completed with inbuilt future expansion capacity into the adjacent building. Pulsers® are simply extended into the additional space once the dividing wall is removed.

Sintra Pulsion® provides a stable, safe environment for pharmaceutical logistics, with significant capital and running cost savings, as compared with conventional diffusion type systems.