

CLIMATE CONTROL CASE STUDY

OVERVIEW

To quickly chill or freeze fresh products during the food production process, spiral freezers are often used. High moisture content and the quality of air that surrounds your freezer intake can result in the excessive build up of both frost and ice.

Ice build-up in spiral freezers is a common issue. It means shutting down the production process and clearing away the ice. This, in turn, causes lengthy downtime; costing time *and* money to address. It is something that few businesses can easily afford.

PROBLEM

Let's take the production of a potato-based food that, after cooking, is cooled using a spiral freezer. Here, there are two challenges: the high moisture content in the potato itself, and the higher-than-normal moisture content in air around the intake.

The combination of high moisture content in the potato and the surrounding air causes excessive ice build-up. This can lead to regular, unplanned shutdowns; each time meaning a loss in production and incurred costs while the ice is cleared.

SOLUTION

As the leading HVAC solutions provider in Ireland, Cross Hire has the skills and expertise to provide a bespoke climate control system that creates an environment in which ice build up is prevented – increasing production and reducing costs.

We can supply a solution that produces a climate that is similar to (or possibly even better than) the evaporation temperature inside the freezer. With our experience, this system can achieve the ideal climate conditions using dehumidifiers and chillers.

Using a short-term climate control system from Cross Hire generates unbeatable results:

- **A significant cut in the level of ice build-up inside your spiral freezer**
- **A reduction in the number of shutdowns in relation to ice build-up (up to 60%)**
- **An increase in production – in some cases by up to 25% each hour!**

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