

INSTALLATION AT FRIGOSCANDIA

Reference Case Logistics and Storage

BACKGROUND

Because the air in Frigoscandia's 4,000 m² cold storage maintains a low temperature, negative pressure is created within the warehouse, drawing in air from outside. When the warmer, humid outside air meets cold surfaces, condensation forms, leading to moisture-related issues and damages. The refrigeration units are strained by ice build-up, necessitating regular defrosting, and damage can occur to packaging. Slip accidents can also happen due to condensation on cold floors.

These challenges can be managed with the help of Airwatergreen's dehumidifiers. Low electricity consumption, straightforward installation, and high capacity even at low temperatures make this possible!

WHAT PROBLEMS DID AIRWATERGREEN'S DEHUMIDIFIERS SOLVE?

A NEXT240 was installed in the cold storage where it captures the moisture primarily coming in through the loading docks. Humid air enters during the periods when the doors are open and quickly spreads within the cold storage.

Since a portion of the facility is used as a freezer, we deliver the dried air to the entry tunnel leading from the cold storage into the freezer (see image below). This way, we create a dry zone in the vestibule, preventing less moisture from entering the freezer area. The entryway features a high-speed roll-up door leading into the freezer and a curtain towards the cold storage, allowing dry air to flow into the cold storage area. The humid air is extracted from the cold storage, thus reducing the humidity levels throughout the facility.

We continuously measure humidity and temperature at various locations in the warehouse, enabling us to monitor the climate and optimize the control of the dehumidifier over time.



QUICK FACTS

Product: 1 NEXT240

Installation year: May 2022

Reason: Improve the working climate, reduce condensation, relieve the cooling units, and reduce the amount of ice formation in the freezer storage.

BENEFITS OF USING AWGS PRODUCTS VS DOING NOTHING?

In Frigoscandia's cold storage facilities, we've eliminated condensation on cold surfaces, which previously caused accidents and damage to goods and property. It's also less uncomfortably cold to be in the cold storage area. Challenges with ice formation in the freezer storage, leading to costly and time-consuming defrosting, have been reduced, saving energy and decreasing wear on the refrigeration units.