AIRWATERGREEN
Air Technology Sweden

INSTALLATION IN SÄTER ICE RINK

Reference Case in Properties

BAKGROUND

Säter Ice Rink previously had an older dehumidifier, which was replaced in 2020 with two REX units from Airwatergreen. While the REX units improved the overall environment, issues arose under high humidity loads, particularly with water droplets forming on the ice surface, leading to unevenness and a slip hazard. In 2023, following a review and testing, Säter Ice Rink decided to trial the NEXT unit, a more powerful and energy-efficient alternative, with the REX units being removed as part of the upgrade.

WHAT PROBLEMS DID AIRWATERGREEN'S DEHUMIDIFIERS SOLVE?

The main issue was condensation, which caused damp patches and ice lumps on the skating rink's surface. The NEXT unit has a capacity of up to 10,000 m^3/h and is equipped with a turbo function that can double its output when needed.

This makes NEXT ideal for managing high humidity even in colder environments, such as ice rinks where temperatures are often set low.

With NEXT in operation, the climate in the ice rink has improved, and issues with moisture have been reduced or eliminated. When the doors have been opened and larger amounts of humidity have entered, the turbo function has proven highly effective.

QUICK FACTS

Product: Installation of 2 REX, replaced by 1 NEXT240

Installation year: 2024 (2020)

Cause: Preventing water from dripping from the ceiling onto the ice, causing small ice lumps to form on the skating surface.

BENEFITS OF USING AWG´S PRODUCTS VS PREVIOUS INSTALLATION?

Without dehumidification, ice rinks risk issues such as fog, dripping, and corrosion, which can impact safety and increase maintenance requirements. Airwatergreen's dehumidification solutions utilise technology that reduces energy consumption by up to 70% per litre of dehumidified water compared to traditional sorption techniques. Additionally, the NEXT unit is easy to install and can be monitored via the cloud-based AWG Climate Control System, making it a sustainable and energy-efficient choice for ice rinks aiming to ensure operational reliability and lower running costs.

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