



Reference Case

Ensuring Precision in Biotechnology Manufacturing with Condair Dehumidification Systems

Condair DA Series Dehumidifiers

Evik Diagnostics faced a critical challenge of needing to maintain ultra low humidity levels at their facility to ensure product integrity.

The company along with the support of Longhill Energy turned to Condair and their humidity control solutions to provide an ideal solution to keep their operation consistent.

Installation Type
Existing Building

Subsegment
Medical
Manufacturing

Products
Condair DA Series

Year of installation
2020 & 2022

To protect product integrity, Evik Diagnostics faced a critical challenge of maintaining ultra low humidity levels at their facility to ensure product integrity. The company along with the support of Longhill Energy, their local Condair Agent, turned to Condair and their humidity control solutions to provide an ideal approach to keep their operation consistent.

Background

Evik Diagnostics Innovations, a leader in biotechnology, specializes in diagnostic assay lyophilization, producing precise spherical volumes of lyophilized assay reagents (DxSpheres). Operating out of a 9,000 sq/ft facility—including 2,600 sq/ft of humidity-controlled production and research space—Evik faced a critical challenge: maintaining ultra-low humidity environments essential for product integrity.

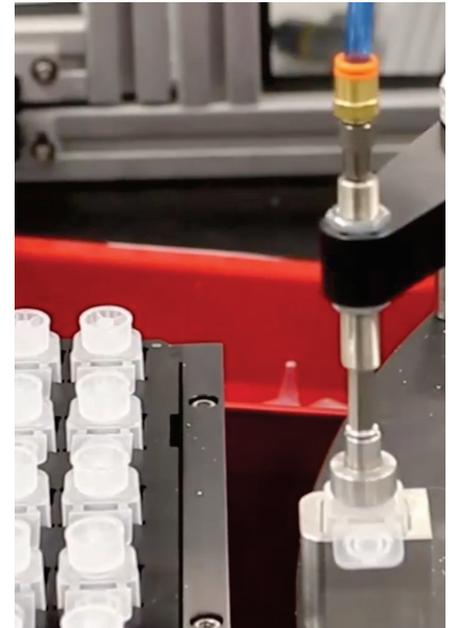
The Challenge

The production of DxSpheres demands a consistent relative humidity (RH) level of below 10% in specialized dry rooms. These stringent conditions prevent moisture reabsorption, which could compromise the reagents' structural stability and performance.

Evik's existing dehumidification systems did not deliver the reliability needed for consistent operation. With plans to expand, the company required robust and responsive systems capable of maintaining precise humidity levels across their facilities.



Offering unprecedented expertise for the development, optimization, and validation of Single-Assay lyophilized beads Evik's manufacturing is second to none.



Evik Diagnostics operates from a modern facility in Ottawa, Canada.

“
Condair's dehumidification systems have set a new standard for our operations. The consistent, low-humidity environment they maintain has significantly enhanced our manufacturing process, and their support has been unparalleled.”

— Julian Mindel, Director of Manufacturing Operations

Solution

After evaluating various options, Evik chose the Condair DA Series 400/208 units. Condair's local presence and support stood out, especially compared to previous units from another manufacturer, which lacked responsive service. The Condair units met all operational demands, providing stability and efficiency.

Installation Process

The installation, managed by Longhill Energy and executed by Atwood-Gravel Heating and Air Conditioning Inc., was seamless. Coordination between Evik, Longhill, and subcontractors ensured smooth integration with minimal disruption to ongoing operations.

Operational Efficiency

The Condair units have been operational for 2 to 3 years, delivering consistent, low-humidity conditions with minimal maintenance. Their superior performance has eliminated previous environmental fluctuations, enhancing operational reliability.

The Results

The impact of the Condair system on Evik's operations has been transformative:

Enhanced Stability: The dehumidifiers maintain sub-10% RH levels, crucial for DxSphere production.

Reduced Maintenance: Fewer interventions are needed compared to prior systems.

Improved Efficiency: Environmental stability has directly improved product quality and consistency.



Evik Diagnostics is an ISO 13485:2016 certified manufacturer. Their certification represents deep commitment to international quality standards. Humidity control plays an important part in their quality.

Conclusion

Condair's dehumidification solutions have not only resolved Evik's immediate humidity challenges but have also provided a platform for future growth.

Plans are already in place to upgrade additional units, further solidifying the partnership and enhancing operational excellence in biotechnology manufacturing.



Condair's DA Series Desiccant Dehumidifier. This dehumidifier features a double-wall housing, high efficiency desiccant roter and is UL certified.

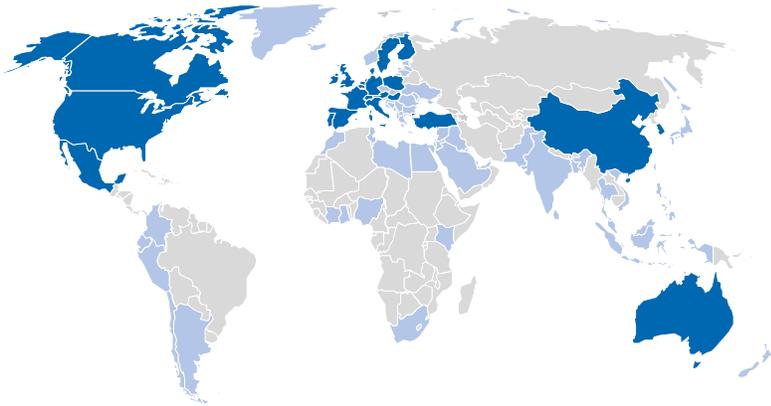
Condair Group,

founded in 1948 and based in Switzerland is the global leader in humidification, dehumidification and evaporative cooling.

Supported by science, we engineer individual, holistic solutions that customers can trust through the entire lifecycle.

With optimal humidity, we increase productivity and create healthier built environments.

Condair Group has production sites in Europe, North America and China, its own sales and service organizations in 23 countries, and representatives in 50 locations worldwide.



75+ Years of Industry Leadership in humidification and evaporative cooling solutions



Global Sales and Service offices in 23 countries



Worldwide coverage with operations and support in over 50 countries



Swiss-Made Quality designed and manufactured with high precision and quality standards



Broad Product Range across steam, adiabatic, and hybrid humidification for diverse applications



Energy-Efficient Solutions that reduce energy consumption by up to 80 %



Certified Health and Safety Compliance meeting strict international health and safety standards (ISO 9001, ISO 14001)

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