

Case Study

Eliminating Moisture in Hospital Cleaning Air Systems

The Challenge

A General Hospital in Winnipeg was facing persistent moisture problems in its compressed air system used for cleaning and maintenance stations.

Despite having a high-grade breathing-air setup with three stages of filtration, water was still present in the air lines.

This excess moisture caused:

- Contamination of cleaning air and equipment
- Reduced cleaning efficiency and reliability
- Frequent maintenance to drain accumulated condensate

The hospital's technical team had already tried several filtration and drying options, but none solved the issue permanently.



Solution

Our distributor JCV Mechanical (Winnipeg, MB) recommended and installed a Super-Dry D-1 Desiccant Air Dryer downstream of the existing filtration system.

- ✓ Compact and maintenance-friendly – ideal for space-limited hospital utility rooms
- ✓ Final stage moisture removal – ensures completely dry air before reaching cleaning stations
- ✓ Consistent dew point performance – stable and measurable dryness for medical-grade reliability

After installation, JCV Mechanical technicians monitored the dew point and confirmed a stable -30°F dew point, proving full moisture removal and long-term consistency.

Results



Complete Moisture Elimination

The Super-Dry D-1 completely resolved the water contamination problem in the hospital's air line.



Dry and Clean Air for Maintenance

Cleaning stations now operate with clean, moisture-free compressed air.



Reliable Hospital Operations

Equipment can be safely cleaned without risk of corrosion or contamination.



Proven Dew Point Stability

Technicians recorded a steady -30°F dew point, validating system performance and efficiency.

Outcome Summary

By integrating a Super-Dry D-1 dryer into an already filtered system, General Hospital achieved true moisture-free air quality. This final-stage solution allowed the facility to maintain high hygiene standards, reduce maintenance costs, and ensure reliable operation of critical cleaning equipment.



Product Highlight

Model Used: Super-Dry D-1 Desiccant Air Dryer

Application: Cleaning air stations at General Hospital

Measured Dew Point: -30°F

Result: Consistent, moisture-free air ensuring safe and effective equipment cleaning



Client Description

A General Hospital, located in Winnipeg, Manitoba, provides comprehensive healthcare services and maintains strict air-quality standards across all departments.

Their focus on equipment reliability, hygiene, and maintenance efficiency ensures safe and continuous hospital operations.



Partner Description

JCV Mechanical is a Winnipeg-based provider of compressed-air systems, service, and support, specializing in high-reliability installations for industrial and institutional clients across Manitoba and beyond.

They deliver turnkey air-quality solutions that meet demanding standards for performance, safety, and energy efficiency.