

Case Study

# Protecting Dust Collection Equipment from Moisture Damage

## Client Overview

A large Ontario-based pallet manufacturer specializing in high-volume wood pallet production, repair, and retrieval. The facility operates advanced automated equipment and heat-treatment systems to meet industrial standards for durability, logistics efficiency, and ISPM-15 compliance.



## The Challenge

A Canadian manufacturer faced frequent dust collector failures caused by wet compressed air.

Moisture clogged valves, reduced suction efficiency, and increased maintenance costs — especially during humid summer months.

Even with standard filtration, condensed water was still reaching the air lines.



## The Super-Dry Solution

Installing a Super-Dry D3 Desiccant Air Dryer with a water separator pre-filter created a complete moisture-control setup.

Bulk water was removed instantly by the separator, and residual humidity was captured by the desiccant cartridge — delivering consistently dry air to the dust collection system.



Compact and easy to install



Maintenance-friendly design



Consistent dew point protection

# Results



## Zero Moisture Shutdowns

No more clogging or system failures — continuous, reliable operation.



## Cleaner Airflow

Dust collectors perform at full efficiency with consistently dry air.



## Reduced Maintenance Costs

Filters last longer and production stays online with fewer service calls.



## Outcome Summary

The Super-Dry system provided a reliable and cost-effective fix that paid for itself quickly.

By preventing moisture damage, the manufacturer achieved longer equipment life, stable production, and peace of mind knowing their air system is truly dry.



## Product Highlight

**Model Used:** Super-Dry D3 Desiccant Air Dryer

**Prefiltration:** FSD Water Separator

**Application:** Dust Collector Protection

**Result:** Reliable, moisture-free compressed air for optimal system performance



## Client Description

The client is a leading full-service pallet manufacturer and supplier based in Ontario, Canada. They emphasize quality, cost-effectiveness, and customer satisfaction in all operations. With multiple facilities and approximately 170 employees, they provide new pallet manufacturing, pallet repair and management, custom design, retrieval, and ISPM-15 heat treatment.