

Case Study

Eliminating Nail Gun Freezing for Winter Roofing

The Challenge

During cold winter months, contractors using roofing nail guns experienced freezing issues caused by moisture in the compressed air.

This freezing led to misfires, jamming, and reduced productivity on job sites.

The distributor needed a reliable solution to ensure their customers could operate pneumatic tools efficiently in subzero conditions.



The Super-Dry Solution

They installed a Super-Dry ATD-1/2-CL desiccant air dryer in their compressed-air setup supplying the nail guns.

The unit effectively removed residual moisture, delivering dry, instrument-grade air to the tools — preventing freezing even in extreme cold.

- ✓ Compact and inline installation
- ✓ Low-maintenance operation
- ✓ Prevents moisture freezing in tools

Results



Zero Freezing Events

Nail guns no longer jam or misfire due to ice formation.



Consistent Gun Performance

Tools operate smoothly and reliably, even in subzero conditions.



Increased Productivity

Contractors maintain higher throughput, reducing downtime and rework.

Products Used

The Super-Dry ATD-1/2-CL dryer provided a simple and effective solution to a long-standing winter problem.

By eliminating moisture-related freezing, the distributor's customers achieved higher productivity, fewer tool failures, and greater job-site reliability.



Product Highlight

Model Used: Super-Dry ATD-1/2-CL

Application: Nail gun freezing prevention in cold weather

Result: Frozen-free, consistent performance of pneumatic tools in winter



Client Description

The client is a premier Canadian distributor of fasteners and pneumatic tools with over 50 years of industry experience. They serve contractors, retailers, and industrial customers with a wide range of nails, staples, screws, and power tools. Their focus on quality products, technical expertise, and customer support has made them a trusted supplier nationwide.

