



Concepts and Designs
INCORPORATED

Cold Storage Solution Dry Dock System



**Designed for
refrigerated loading
docks with one to
sixty trucks.**

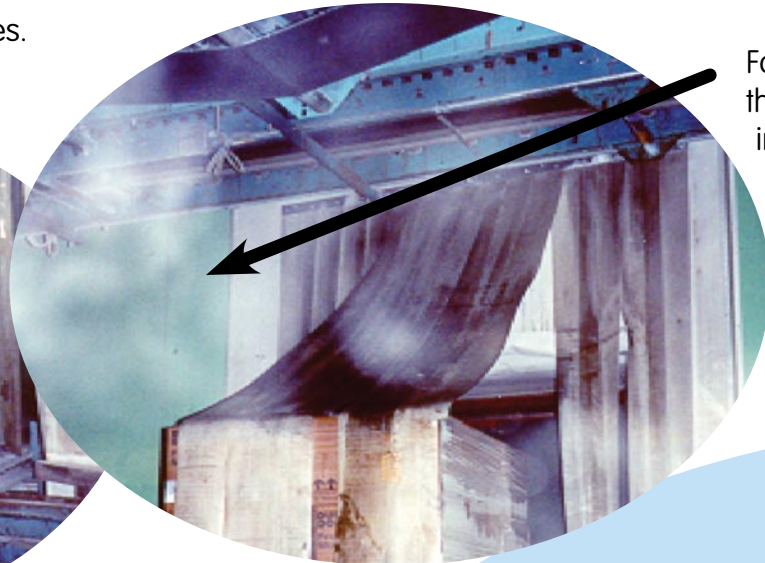
**Solutions for
Indoor Air Quality**

the problem...

High humidity adversely affects cold storage warehouses, freezers and associated surfaces by condensing on cold surfaces. Loading docks become wet, causing slippery floors. Automatic freezer doors and conveyors can jam with ice. Freezer coils develop frost and ice, which reduces heat transfer and requires frequent defrost cycles.



Frost and ice build up on the pallet rollers.



Fogging from the moisture infiltration through the pallet door.

the solution...

Dry Dock System

Concepts and Designs, Inc., offers an effective solution to these problems with Dry Dock desiccant dehumidification systems. The Dry Dock system captures humidity (moisture) near the exterior dock doors and delivers dehumidified (dry) air where it is needed most – above the doors entering the freezers.

DryDock Benefits:

- Improved product quality
- Reduced labor costs
- Lower electrical costs
- Dry loading dock floors
- Quick dry-out cycles
- Reduced defrost on evaporators
- Fewer mechanical & electrical failures
- Improved sanitation
- Improved visibility
- Safe, comfortable working environment
- Longer forklift battery life

Humidity Control Improves Cold Storage Operations

Concepts and Designs uses desiccant technology to control humidity in cold environments. Lowering humidity promotes a dry, safe environment with no drips or condensation.

By circulating dehumidified air through the loading dock or corridor, the latent load (moisture) on your refrigeration system is reduced. The moisture is removed by the desiccant system, allowing the refrigeration system to control temperature more efficiently.

DryDock Features:

- Bacterial-static desiccant rotor
- Washable casing options with drain pans in each section
- 2" Standard or optimal 4" double wall insulated casing for temperatures to 10°F
- Casing options: G-90 galvanized, aluminum or stainless steel
- Integral ammonia, chilled brine or D/X cooling coils
- Filtration options: 30% to 99.97% HEPA efficiencies
- Natural gas, steam, or electric reactivation options
- Double gasket doors for easy access to all serviceable components

"The CDI unit on the loading dock at Nestlé has performed exceptionally well! Frost and ice have completely abated and all the problems associated have gone away. We have a very happy customer in Nestlé."

– Joe Daniels, Climate Control



Before CDI

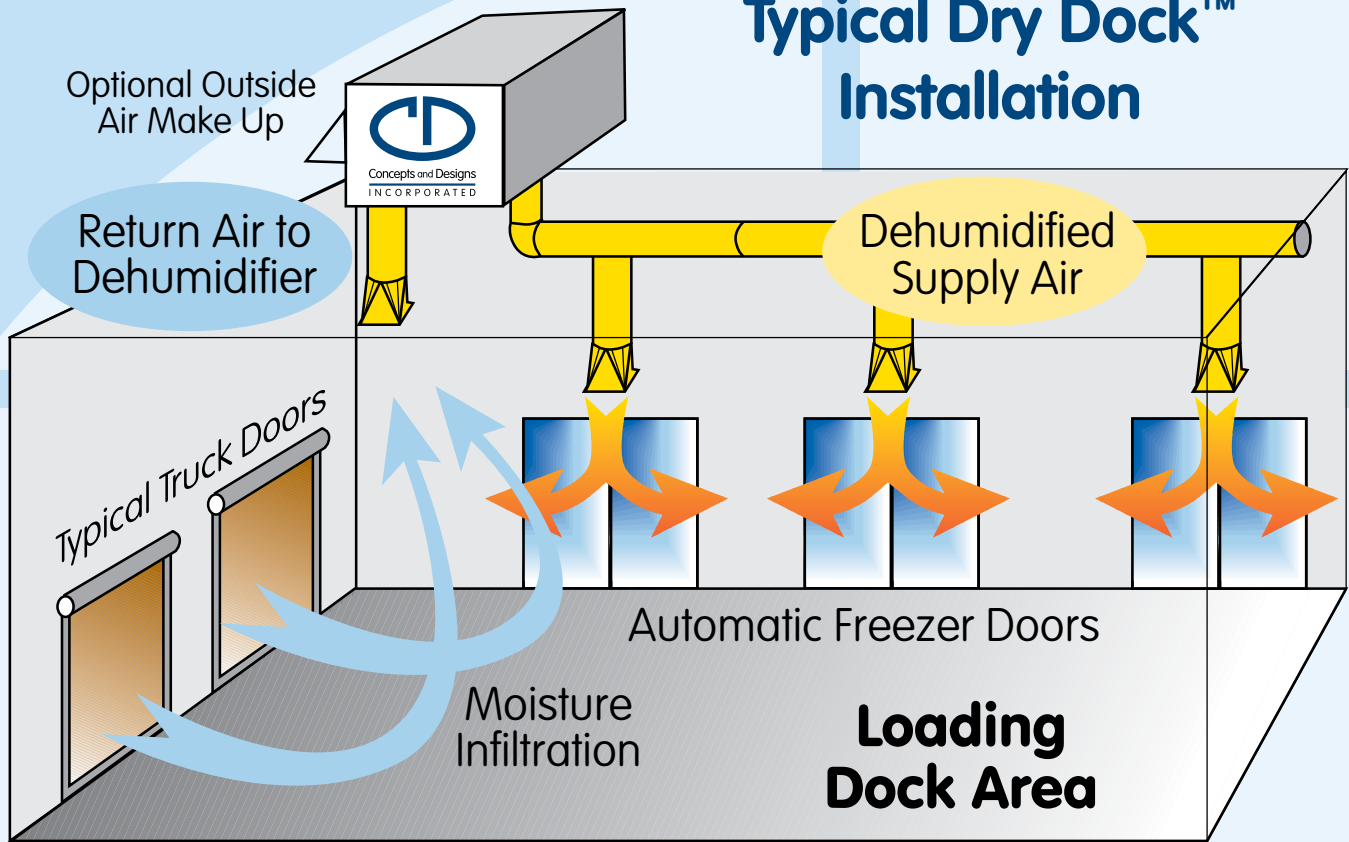
Frost and ice build up on conveyor rollers, hoods and on conveyors at openings.

After CDI

Frost-free conveyor hoods, rollers and openings.



Typical Dry Dock™ Installation



With systems ranging from 2,000 to 30,000 scfm, DryDock™ is designed for refrigerated loading docks with one to sixty trucks.

Concepts and Designs, Inc. has more than 25 years of experience with desiccant technology. Contact Sales at 507-451-2198 or sales@cdihvac.com to discuss how we can improve your cold storage operation.



ETL-C, ETL and CE Rated



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