

Installing One Of The Largest Transcritical CO2 Systems in the U.S.

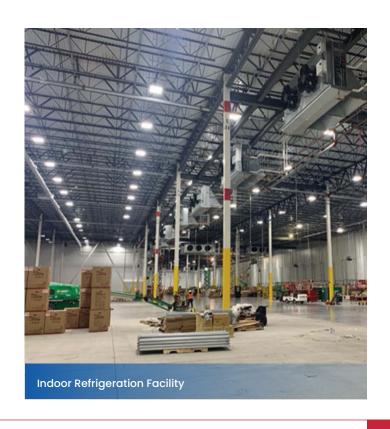
To Create a Cold Storage Facility in Maryland.

The Problem:

A worldwide e-commerce giant was growing its physical retail presence, transitioning from dozens of hyperlocal basket-grocery stores to more than 450 organic supermarkets nationwide. To facilitate this swift growth, the company required new distribution centers capable of handling substantial orders of fresh and frozen foods, with one site located in Maryland.

Plans were designed to transform an empty facility into an integrated refrigerated distribution center, yet much remained to be accomplished.

Plans were designed to turn an empty facility into an integrated refrigerated distribution center, but much was left to be done.



CoolSys

The Solution:

Collaborating seamlessly, the CoolSys engineering, mechanical equipment sourcing, project management, and equipment installation teams joined forces to procure, deliver, install, and calibrate all refrigeration and EMS control systems.



The Impact:

The client expressed high satisfaction with CoolSys' expert teams, So much so that the success of this project pioneered the advancement of CO2 into their design and future portfolio. In addition, it resulted in CoolSys being chosen to undertake several multi-million-dollar CO2 projects.





CoolSys has now been recognized as a key partner for the client's innovative cold storage initiatives.

CoolSys

Project Highlights:















ENERGY SAVING COMPONENTS



EC Evaporator Fan



Gas Cooler Motors



PARALLEL COMPRESSION

FOR HIGH AMBIENT PEAKING



UNDERFLOOR UPGRADES

- Underfloor heating system with reclaimed heat from one rack, encompassing freezer and meat cooler spaces.
- Underfloor PEX system with multiple manifolds, main rooftop heated fluid distribution.





Approximately 108,000 SF of under slab heated area or freezer and meat cooler.