

CASE STUDY: Advanced DX (ADX) Ammonia



JOLIET COLD STORAGE Joliet IL

Type of facility: New Public Refrigerated Warehouse

Owner: Joliet Cold Storage	Results/Benefits Delivered
Location: Joliet IL	∘Total ammonia charge: 8500lbs
Installer: AMS Mechanical	•Ammonia charge reduction vs pumped: 72% •Reduction in installed cost vs pumped: 2.4%
Floorspace: 402,000 sq ft	•Reduction in operating cost: 1.3% •Other:
Total refrigeration load: 1,007 TR -10 deg F freezer and convertible rooms @ 801TR +40 deg F USDA room and loading dock @ 206TR	∘System is easy to work on ∘Restarts quickly after power failure ∘"Evaporators with EEV are working well!"
Economized screw compressors with thermosyphon oil cooling.	

Colmac Advanced Direct Expansion(ADX)

Benefits:

- » Significantly smaller ammonia charge
 - 7 lbs/TR vs 30 lbs/TR for pumped bottom feed
 - Reduced health and safety risks
 - Reduced regulatory burden (< 10,000 lbs)
 - Faster defrost cycle
- » Energy efficient
- » Lower first cost*
- » Simple operation

*Compared to traditional pumped ammonia



CE(PED) Certification, ASME Sec. VIII, Canadian Registration Number, UL508, Canadian Standards Association





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