

CASE STUDY: Advanced DX (ADX) Ammonia



US COLD STORAGE Laredo TX

Type of facility: Public Refrigerated Warehouse Expansion

Owner: US Cold Storage	Results/Benefits Delivered
Location: Laredo TX	•Total ammonia charge: 1500 lbs •Ammonia charge reduction vs pumped: 75%
Installer: Stellar	•Reduction in installed cost vs pumped: 8% •Other:
Floorspace: 75,000 sq ft	• ADX Ammonia allowed facility expansion without the addition of a recirculator
Total refrigeration load: 207 TR -10 deg F freezer and convertible rooms @ 88TR +40 deg F dock and convertible rooms @ 119TR	package.
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



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





CRN



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^{*}Compared to traditional pumped ammonia