

ET Summit 2019

Presented by



Efficiency & Low GWP Refrigerants

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History

Reducing water consumption in 2013 led to the DMCS

By-product was lower refrigerant charge

Lower GWP refrigerants have higher discharge temperatures

Higher discharge temperatures allows more heat transfer to space heating and domestic hot water

Our SRS system may eliminate the need for any gas for space heating or domestic hot water

Raley's #341 Remodel

Fact Sheet

December 2017 VS December 2018

	BEFORE	AFTER	% CHANGE	REDUCTION
Building Square Footage	56737	52282	92%	-8%
Walk In Cooler Square Footage	3515	3515	100.00%	0%
Lineal Footage Refrigerated Case	856	870	101.64%	1.64%
Refrigerant GWP Risk LBS ref * GWP/2200= Metric Ton	4077	609	14.94%	-84.60%
Water Usage Gallons	407000	187000	45.95%	-54.50%
Electircal Consumption KWH	170373	121098	71.08%	-28.10%
Natural Gas Consumption Therms	793	628	79.19%	-21.80%

SRS

- Will be Mini Charge Ammonia over Liquid Pumped CO2
- 99.9% reduction in MTCO2e Inventory
- Will provide capacity for everything from Ice Cream to Air Conditioning
- Equipment being installed and will start up in late Jan 2020
- We expect higher EER than current systems and better heat reclaim (lower natural gas consumption)
- Actual data available in May - June 2020









Thank you

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