

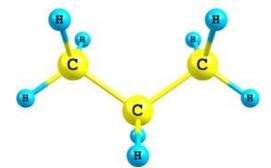


## R 290 the End Game -orProof of Concept?

Presented by Gary Cooper



## **Considerations**



- ✓ Glycol Loop Designed Specifically to Evaluate R-290
- ✓ Sub Metered to Monitor Performance
- √ Safety
- ✓ Serviceability
- ✓ Total Cost of Installation



## **Test Store Overview**

- ✓ Retail Grocery Store 34,000 sq. ft.
- √ 35 Condensing Units
- √ 88 Freezer Doors
- √ 170 Oz. Total Propane Charge
- √ 250,000 BTU THR Capacity
- √ Hussmann Cases
- ✓ Embraco Compressors
- ✓ DX R-407F Split Header Racks for Rest of Fixtures and Heat Rejection Loop









## **Pros and Cons**

- ✓ Single Point Electrical Connection
- ✓ Energy Reduction Exceeded Expectations
- ✓ Extended Compressor Life Due to Lower Discharge Temps
- ✓ Straightforward Installation
- ✓ Fixed Capacity Due to Design
- ✓ Higher Fixture Cost
- ✓ Minimal Troubleshooting / Monitoring Information



Thanks!