

# ET Summit 2024

Presented by



# Technology Demonstrations to Expand the Potential of CO2 Heat Pumps

Doug Davenport

CEO

ProspectSV

“This system could change the whole game, but until it’s in a building somewhere, we can’t spec it.”

- An Anonymous MEP

## About Us



Bring new solutions and efforts forward

Offer tools, strategies, partners, and assistance to implement them

## What Flow Needed

- Rigorous system demonstration, with 3<sup>rd</sup> party verified data
- Leading advisors and design engineering reviews
- Design guidance and reference information
- Contractor and engineering training
- Outreach to the industry
- A direct path to project opportunities

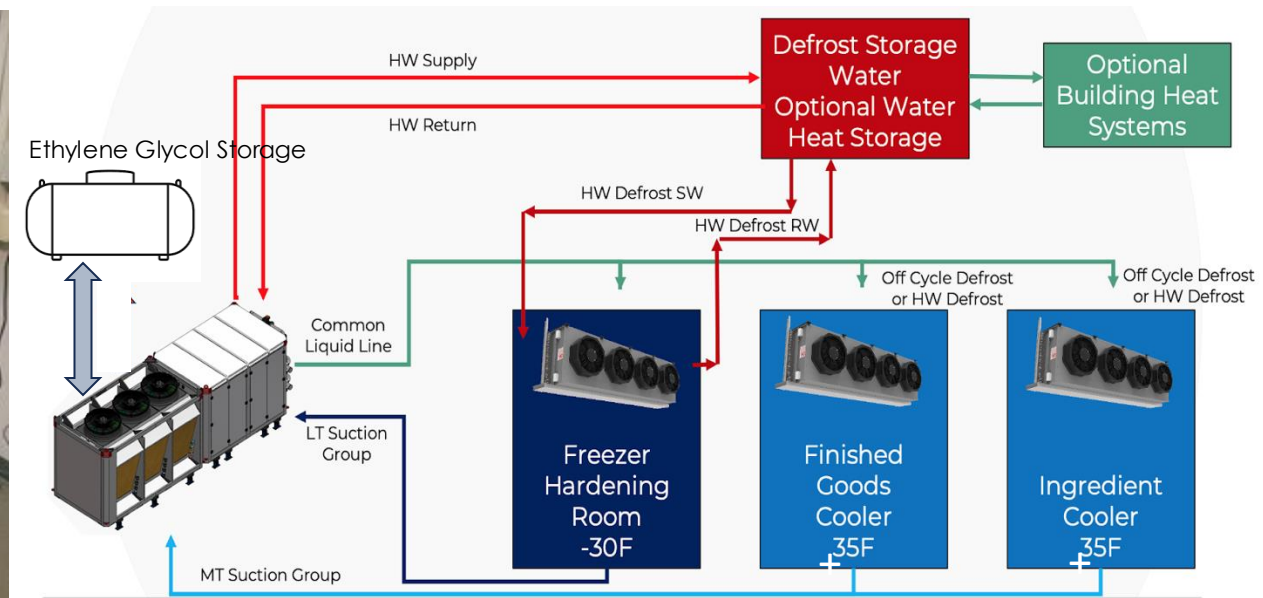


## The Demonstrations



HVAC in Large Commercial Buildings  
FlexLab – Berkeley CA

- *Simultaneous Heating/Cooling/HW*
- *Advanced HVAC Controls*
- *Model Predictive Grid Response*



Commercial Cold Storage  
Straus Family Creamery – Rohnert Park, CA

- *Multiple Facility Cold Rooms*
- *Supplemental Process HW*
- *Advanced Defrost Controls*
- *Model Predictive Grid Response*

## What's Coming

**Outreach Campaign** – Building owners, operators, engineers, contractors, public and private sector

**Performance Data** – Results of testing program, financial analysis

**Design Resources** – Performance curves, BIM HP model, Modelica model.

**Controller Beta** – System specs and control sequences, public domain downloads



 ProspectSV | **PATHWAYS**



# Get Involved, Stay Connected



 ProspectSV | **PATHWAYS**

