



Trending:
#Natural, #Efficient, #Safe

State of the Industry



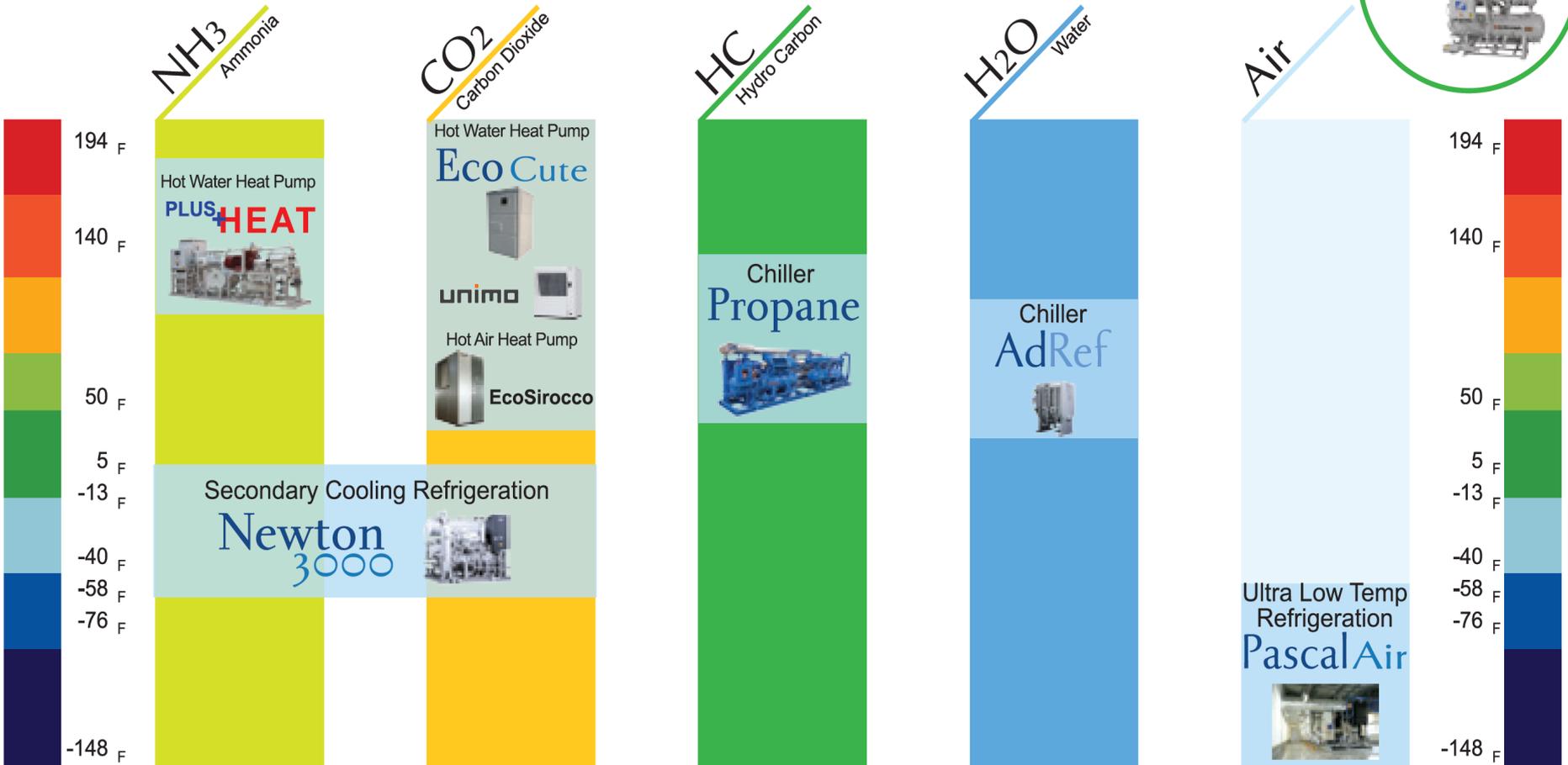
- *Mayekawa offers innovative thermal solutions through the entire cold chain*
- *Dedicated to technology advancement that service our customers and the global community.*
- *Over 90% of our business involves natural refrigerants*
- *Also offer innovative solutions for:*
 - *Process heating and cooling*
 - *Scientific applications*
 - *Petrochemical*



Your Natural Refrigerant Equipment and Solutions Provider



Natural Five Solutions 



#3 Latest NR projects

- *Installation of a CO₂ and low charge test bench at TN facility.*
 - *Full testing capabilities for small charge NH₃ and CO₂ units*
 - *Run test prior to shipping for performance and leaks*



#4 Latest NR projects



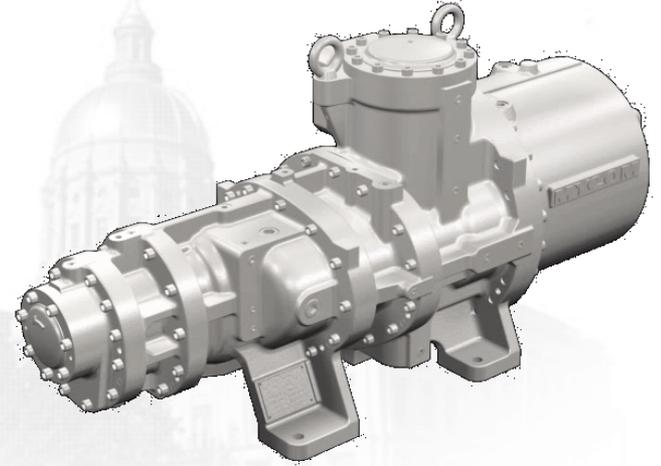
- *Integrated hot/cold plant system design for a traditionally Freon based customer*
 - *Traditionally synthetic customer*
 - *Ammonia and CO2 refrigerants*
- *Commissioned utility study for a comparison between synthetic and low charge ammonia/CO2 refrigeration system.*
 - *Comparison of R507 to NH3/CO2*
 - *Examines not only performance but full project installation*
 - *60 lbs ammonia, flooded*

#5 Lessons learned

- *Team experience significantly decrease the risk of NR adoption*
- *Continue to educate:*
 - *Architectural and Engineering Firms*
 - *Contractors and Service Providers*
- *Cost falling as adoption increases*

#6 Future plans

- *Continue to Advance NR Technology*
 - *Hermetic Scroll Compressor*
 - *IPM Motor*
 - *Magnetic Bearings*
- *Directing technology to low charge*
- *The coming years are exciting to be in refrigeration, opportunities are increasing*





business case

natural refrigerants

25-26 June 2015 — Atlanta, Georgia

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