



JUNE 26, 2015

# REFRIGERATION PACKAGED EQUIPMENT: THE STELLAR ADVANTAGE



business case  
natural refrigerants

25 & 26 June 2015 - Atlanta, Georgia

Atmosphere 2015

Brandon France



TAKING SOLUTIONS FURTHER®



# STELLAR OVERVIEW

Stellar is a fully integrated design-build firm that self-performs a highly comprehensive range of services.



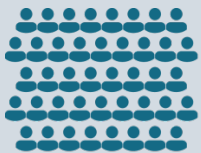
## Financial Stability

\$400M+ Annual Revenue  
In Business for 30 Years



## Commitment to Sustainability

Experts in LEED and Other Green Initiatives



## Unparalleled Expertise

Over 600 Full-Time Employees



## Global Presence

Experienced in 15 Countries and Licensed in All 50 States



## Comprehensive Services

Self-performed for Greater Control



# OUR SERVICES & MARKETS



PLANNING

DESIGN

PRE-CONSTRUCTION

CONSTRUCTION

TOTAL OPERATIONS  
& MAINTENANCE

## FOOD



BAKERY



POULTRY



FOODSERVICE



BEEF/PORK



RTE



PUBLIC  
REFRIGERATED  
WAREHOUSE



BEVERAGE



SEAFOOD



DAIRY



RETAIL

## OTHER INDUSTRIES



PETROCHEMICAL



PHARMACEUTICAL



# STELLAR ACCOMPLISHMENTS



Only Company to Build 2 Roasting Plants For Starbucks

Published in Over 50 Articles as Industry Experts In the Last 3 Years



Recognized Contractor in Hawaii for MWR

2X Company With Heart Winner



Constructed World's Fastest Line Speed, Producing 1,400 Hogs Per Hour



#2

Top 10 International Design Firms, Food Processing

#3

Top 10 Food & Beverage Design Firms

#8

Top 20 Contractors, Industrial Sector

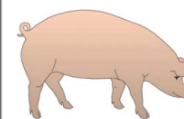
Designed and Built the World's Largest:



Donut Plant



Cookie Plant



Two Hog Slaughter Plants



Dairy Beverage Plant



Nestlé

Capital Project for Nestlé



Military Hotel



# REFRIGERATION EXPERTISE

## Refrigeration

**30** REFRIGERATION DESIGNERS & PSM SPECIALISTS ON STAFF



LARGEST  
**CO<sub>2</sub>/NH<sub>3</sub>**  
CASCADE SYSTEM  
IN THE WORLD



**OVER**  
**1,000**  
REFRIGERATION SYSTEMS  
DESIGNED & BUILT

**30**  
**YEARS**  
in the refrigeration business



**14** **YEARS**  
AVERAGE EMPLOYEE EXPERIENCE IN  
INDUSTRIAL REFRIGERATION DESIGN



  
LOWEST CHARGE SYSTEM  
**1# AMMONIA/TR**



# PACKAGED EQUIPMENT - *THE STELLAR ADVANTAGE*



## COST SAVINGS

Less on-site labor = lower construction cost



## SPACE SAVINGS

Reduced machine room size with refrigeration components incorporated into one single unit



## TOTAL PROJECT SOLUTIONS

In-house parts, service, and PSM



## SAFETY

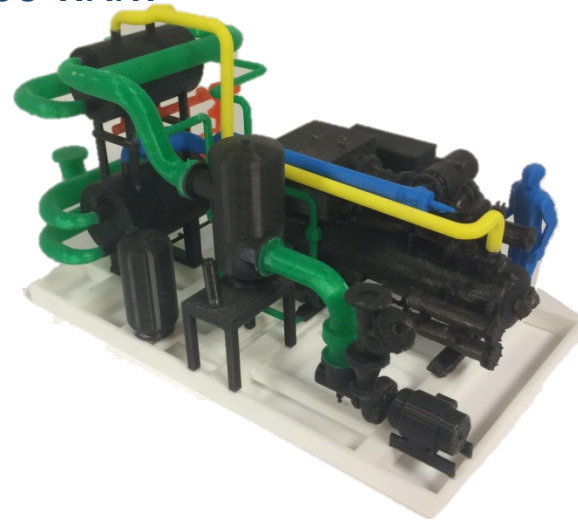
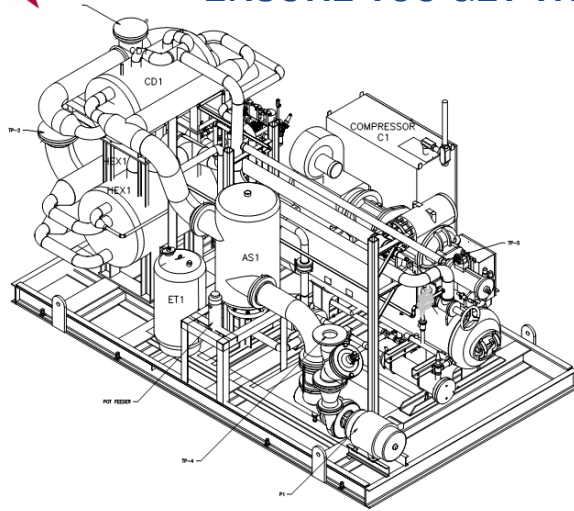
Ammonia is isolated to the machine room





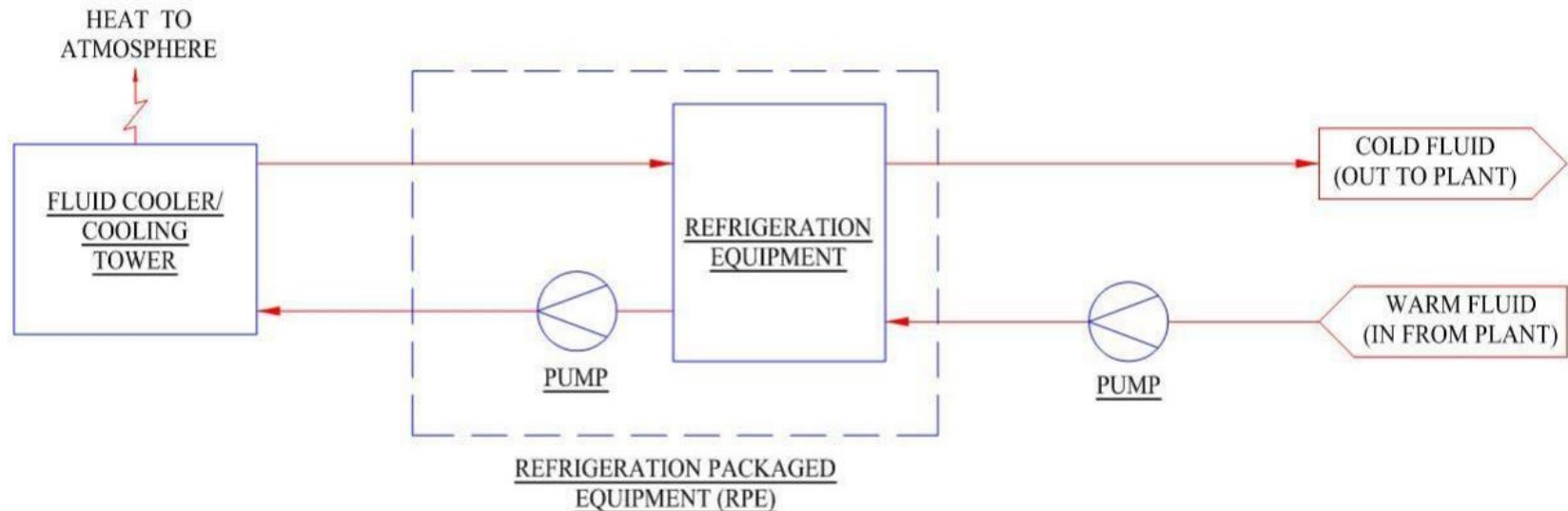
# PACKAGED REFRIGERATION EQUIPMENT FROM CONCEPT TO REALITY

WE USE 3D DESIGN SOFTWARE AND 3D PRINTING TECHNOLOGY TO  
ENSURE YOU GET THE PRODUCT YOU WANT





## SIMPLE BLOCK FLOW DIAGRAM



**BY USING A SMALL QUANTITY OF AMMONIA TO MAKE CHILLED WATER/BRINE;  
SYSTEMS WITH A SECONDARY REFRIGERANT OFFER AN ALTERNATIVE TO  
TRADITIONAL AMMONIA SYSTEMS, OR A NATURAL ALTERNATIVE TO CENTRIFUGAL  
CHILLERS/FREON SYSTEMS.**





## STANDARD FEATURES:

Refrigeration Equipment is Mounted on a Structural Steel Base Complete with Interconnecting Piping, Valves, and Instruments. Each Packaged Unit Includes:

### STANDARD FEATURES

- Factory Built / Quality Controlled
- Nationwide Service
- Industrial Equipment
- Natural Refrigerants
- 0 ODP, 0 GWP
- Less than 1 pound/TR
- Variable frequency drives



# CUSTOM SOLUTIONS THAT WORK FOR YOU

In Addition to Our Standard Features, Our Refrigerated Packaged Equipment is Uniquely Designed to Match the Needs of Each Project:

## CUSTOM SOLUTIONS

- Project Specific Designs
- 100 – 1500 TR Range
- Secondary Refrigerants
  - Glycol
  - Brine
  - Carbon Dioxide
- Optional Integrated Enclosures
- Optional Pre-Wired Electrical

