



June 16 & 17, 2016 - Chicago

# CO2 Booster Training One Year Later





- ☐ Triple Point and Critical Point
- ☐ Subcritical vs Transcritical vs Supercritical.
- ☐ How does this system work?
- ☐ Remember Basic Refrigeration
- ☐ The laws of Thermodynamics HAVE NOT CHANGED
- ☐ You must give a challenging written test

### Class Room Training

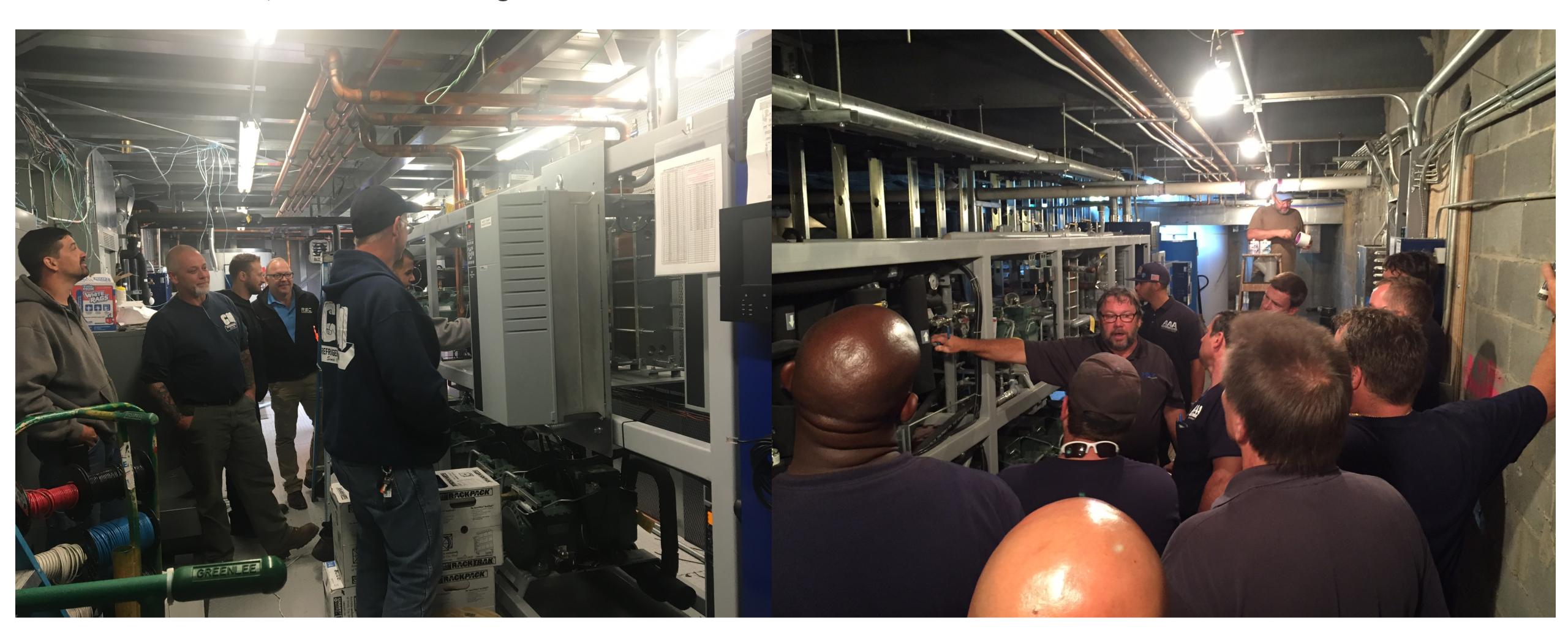
June 16 & 17, 2016 - Chicago



- ☐ The Controller!!! (Not as hard as they think)
- ☐ High Pressure Control Valve
- ☐ Follow and watch the oil System
- ☐ Proper charging procedures
- ☐ Pump down for service
- ☐ What do I do when I lose power
- ☐ "Hey this is not STAR WARS TECHNOGY"

### On Site/Hands-On Training

June 16 & 17, 2016 - Chicago



June 16 & 17, 2016 - Chicago





# CO2 Booster Installations One Year Later



### Important Installation Points



- Installs just like a standard HFC system.
- ☐ Inverted traps a must.
- ☐ System uses POE oil we MUST FLOW NITROGEN when brazing the pipe together.
- ☐ When installing an Adiabatic Condenser, water lines need to be installed and turned on.
- ☐ Drop leg sensor must be installed in the horizontal position
- ☐ Insulate both liquid and suction lines.
- Label your suction and liquid line.



- ☐ Use the proper grade of CO2.
- ☐ Where do I get CO2 after installation.
- ☐ You must triple evacuate the system.
- ☐ System must have 150 psig (10barg) of vapor in the system before charging liquid.
- ☐ All temperature and pressure sensors must be checked and validated. We are using case controllers.
- ☐ Medium temperature case must be start first.
- ☐ Take your time and pay attention to what valve's you open and close.

#### Important Service Points

- ☐ Not every service call is CO2 related.
- ☐ 75% of refrigeration service call are electrical failures.
- ☐ Hang a large piping diagram in the machine room or mezzanine.
- ☐ Remember triple point.
- ☐ Pump circuits out before servicing.
- No more purging, always evacuate circuits after servicing and pull a vacuum
- ☐ Bring the rack back up slowly.



#### natural refrigerants

June 16 & 17, 2016 - Chicago

Thank you very much!