

Arctica Refrigeration: Points of Differentiation

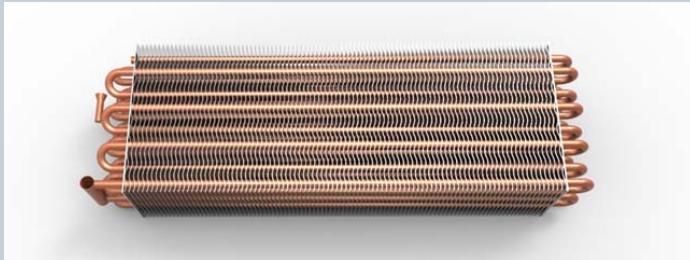
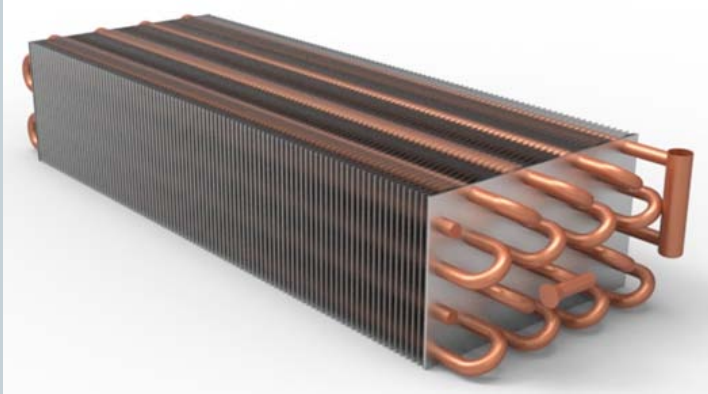
AUGUST 2014



ARCTICA
SHOWCASE

Passionate about customer experiences

Evaporators



- Arctica exclusive “Cold and Slow”™ design: move more air, more slowly
- manufactured by Luvata in Italy
 - Multi-circuit – even temp, rapid cool
 - Ripple-fins
 - Staggered tubes
 - Copper tubing & aluminum fins
- Energy efficiency
 - Large surface area
 - Low pressure drop
- Reliable
- Heresite coating is available

Fans



- We use a bank of small fans, spaced about 12” apart to move air within our showcases
- Lifts the air to let it drop naturally, vs high speed air rotation
- This bank of fans is connected to a fan speed control
 - The fan speed control allow the amount of air moving through the evaporator to be ‘dialed-in’, slower possible
 - Allows the case settings to be adjusted for customers with precise requirements in mind
 - Temperature & Humidity can be varied
 - Less drying out of product = less shrink cost



TEV's



- **Sporlan TEV's**
 - Quality name
 - Allow the showcase to operate efficiently over a range of temperatures = flexibility
- **Competitors also use capillary tube and AEV's**
 - No/less adjustability
 - Less versatile

Temperature Controllers



- Dixell
 - Made in Italy
 - Lots of options
- Also use Johnson A419
 - American Made
 - Well know in the industry

Pump-Down System – Self-Contained



- Our standard system for self-contained cases
- Uses a solenoid valve and a pressure switch to pull the majority of the refrigerant out of the system, preventing any refrigerant migration
- Compressors do not like liquid refrigerant, the pump-down system prevents liquid from reaching the compressor and extends the life of the compressor

Condensate Removal – Self-Contained

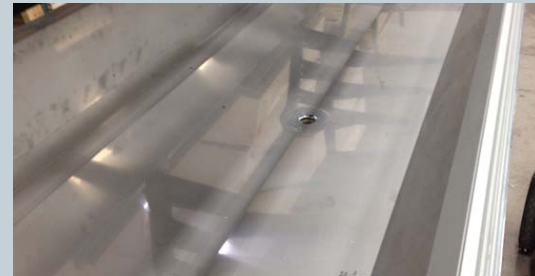


- If no floor drain available, standard solution is an electric evaporator pan
 - ✗ Use a lot of energy initially, and are hard on HVAC systems
 - ✗ Wear out after a few years of service
 - ✗ Will become dirty and smelly
- Arctica has implemented hot gas condensate removal on ~ 95% of our showcases
 - ✓ We use the heat generated by the compressor to evaporate water
 - ✓ No extra energy is needed, actually improves compressor performance
 - ✓ Not as noticeable when you are standing by the showcase

Case Construction



- **Welded aluminum frame with levellers:**
 - no rust
 - easy to build and level line-up
 - modular design
- **Oversize drain: 1 ½" vs ¾" or 1":**
 - better drainage,
 - cleaning
- **Tub, fan mounts, plenum stainless steel:**
 - durability
 - modular design
- **Components lift out for easy cleaning and maintenance**



Case Construction



- “Ultra Durable”™ textured black finish
- Struts – adjustable to allow for on-site conditions

- Integrated defoggers



- Maximize presentation, customer / staff interaction
– lo-profile, glass, minimize structure
- LED lighting, 4100 K typical (warm)

