



REFRIGERATION INNOVATION

Refrigeration plays an important role in food and beverage processing. Statco-DSI offers a variety of solutions for process chilling, from flooded direct ammonia chilling to ammonia to glycol chilling packages. We can help you with standalone chilling equipment and complete skidded refrigeration packages that are base mounted with PLC electrical controls and control interface. Our innovative two circuit systems help balance heat loads and maximize chilling efficiency.

Here's how it works:

2. Chilled glycol is sent back to central distribution

4. Heated glycol returns back to central distribution



Ammonia **OR** Freon
Based Refrigeration Chiller



1. Ammonia or Freon chilling package takes hot glycol from central distribution



3. Central distribution sends chilled glycol to process heat exchangers

Plate & Frame Flooded Ammonia Chillers

- ASME certified surge drums
- Pre-piped and painted
- Ammonia temperature and level controls package
- Semi-welded plate and frame technology
- Oil separation pots

Direct Expansion Plate and Frame Chillers

- Plate and frame semi-welded technology
- Ammonia thermal expansion liquid control
- Thermal expansion injector
- Temperature control valves

Ammonia to Glycol to Process HX

- Flooded ammonia surge drum
- Temperature and level control
- Integrated on board glycol circuit
- PLC controlled with panel view
- Process temperature controlled glycol loop
- Expansion system pressurized to maintain process and refrigerant safety differential
- One plate and frame HX with two circuits

Glycol to Process HX Packages

- Temperature controls
- Instrumentation and process controls
- Panel view data indication

Complete Refrigeration System Design

- Evaporative condensers
- Plate and frame condensers; cooling towers for ammonia charge reduction
- Support structures
- Sump tanks both carbon and stainless steel
- Ammonia compressors
- Ammonia services including compressor rebuilds and PM programs
- Plate and frame re-gasket services
- Pump down and isolation
- Piping Installation

**Contact us today for . . .
Engineering Solutions That Make Sense.**



4678 World Parkway Circle
St. Louis, MO 63134
P: 314-382-1525
Parts: 800-342-5374
E: info@statco.dsi.com
statco-dsi.com