

Azanefreezer

The Natural Choice for Low Temperature Cooling
Capacities from 20 TR to 110 TR



 Azanefreezer



AzaneFreezer is the natural solution for low temperature controlled storage and food processing.

The simplicity of installation and low operating costs deliver the lowest cost of ownership.

Benefits

- › Vastly improved Risk Management - employee and environmental safety, avoiding plant closures and risk to product, staff and the surrounding neighborhoods
- › 15-25% more efficient than a central engine room / central plant
- › Historically shown to out-perform traditional pumped-recirculated ammonia systems by sustaining its efficiency for the life of the plant
- › Simple installation, smaller footprint, with no machinery room required - reduces regulatory requirements, enhances space utilization, improving ROI
- › Provides for greatly enhanced facility yields through creating temperature convertible rooms with lower costs for installation and maintenance
- › Up to 80% reduction in Ammonia Charge when compared to a central plant system
- › Eliminates the cost of water consumption and chemical treatment
- › No location restrictions, ground mount, roof mount, or in-between with the ability to relocate the unit

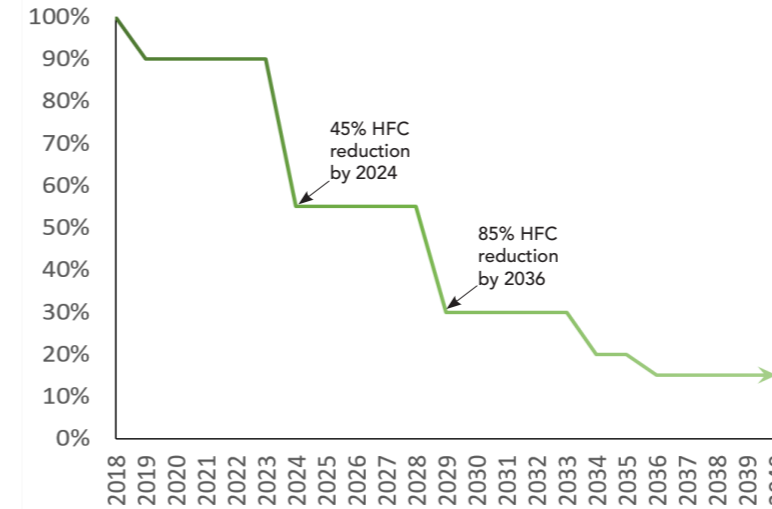


Features

- › Two 50hp compressors for redundancy
- › Air-cooled condenser to eliminate water usage and reduce maintenance
- › 4-way ball valve for fast, effective reverse cycle defrost
- › All service valves are located within the package
- › Remote connectivity via onboard Allen Bradley PLC for offsite analysis and alarm monitoring
- › Internally enhanced aluminium evaporators providing excellent heat transfer and lower operating weight compared to stainless steel
- › Removable panels for easy maintenance access around the unit
- › On skid electrical panel including all starters for the package and evaporators, avoiding the need for multiple power supplies
- › EC condenser fans and automatic floating head pressure control for improved efficiency
- › 'Optional heat recovery package for water or under floor heating'



Natural Alternatives



AzaneFreezer is based on low pressure receiver technology pioneered by Star Refrigeration more than 40 years ago to deliver optimum efficiency and low refrigerant charge.

This technology is incorporated within a factory built package that simplifies site installation.

The phase down of high global warming refrigerants under the Kigali amendment will lead to uncertainty over which synthetic refrigerants will be permitted in the future, what their availability will be and how much they will cost. AzaneFreezer has been developed to provide a long term alternative to synthetic refrigerant solutions. It uses ammonia, a naturally occurring fluid that has zero direct global warming effect and is widely available at low cost.



Air Cooled AzaneFreezer - Technical Schedule

| Condensing Unit Data | | | | | | | |
|--|---|---------------|---------------|---------------|---------------|---------------|---------------|
| Model | AF 20 | AF 35 | AF 40 | AF 45 | AF 70 | AF 90 | AF 110 |
| Total Cooling Capacity (TR) | 24.6 | 40.2 | 47.1 | 51.7 | 86.3 | 107 | 129.4 |
| Design Ambient (°F) | 105 | | | | | | |
| No. of Compressors | 2 | | | | | | |
| Motor Power (hp, each) | 50 | 100 | | 200 | | | |
| Power Supply | 460/3/60 | | | | | | |
| Dimensions (inches) LxWxH | 176x110x137 | | 216x110x137 | | 300x110x137 | 338x110x137 | 438x110x137 |
| Dry Weight (lb) | 19963 | 21168 | 24978 | 27559 | 30063 | 32954 | 41168 |
| Operating Weight (lb) | 20563 | 21802 | 25745 | 28413 | 31020 | 34047 | 42394 |
| Total System Ammonia Charge (lb)* | 163 | 199 | 232 | 264 | 352 | 438 | 484 |
| Connection Size (in.) - liquid/suction | 1/2 / 2 1/2 | | 3/4 / 3 | | | 1 / 4 | |
| Evaporator Data | | | | | | | |
| No. of Evaporators | 2 | | | | | | |
| Cooling Duty Per Evaporator (TR) | 11.3 | 16.9 | 19.7 | 23.1 | 38.5 | 48.9 | 54.3 |
| Air Temperature (°F) | -10 | | | | | | |
| Dimensions (inches) L x W x H | 139 x 54 x 47 | 181 x 54 x 47 | 197 x 54 x 47 | 193 x 63 x 48 | 238 x 82 x 49 | 305 x 82 x 49 | 305 x 82 x 53 |
| Dry Weight (lb, each) | 1739 | 2468 | 2636 | 3077 | 4500 | 5907 | 6364 |
| Operating Weight (lb) | 2334 | 3283 | 3536 | 4132 | 6266 | 8237 | 8693 |
| Connection Size (in.) - liquid/suction | 1/2 / 3 | | 3/4 / 3 | | | 3/4 / 4 | |
| Defrost | Efficient Reverse Cycle Defrost (RCD) | | | | | | |
| Material | Enhanced Aluminum Coil / Aluminum Fin / Galvanized Casing | | | | | | |

*Based on liquid line length of 40 ft
Technical information subject to change. Revision - January 2018

LOW CHARGE AMMONIA



IS HERE



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