

PHARMACEUTICAL

refrigeration system solutions customized to fit your needs



about Pharamceutical

- > Bio Science
- > Manufacturing
- > Storage

Our custom industrial refrigeration systems are optimized to ensure precise temperature control for raw materials, intermediates, and finished products to protect their integrity while safeguarding against loss. With cooling systems with a capacity of up to 500 tons in a single unit that reach -40°F to +50°F, you can ensure all materials and products are stored properly.



Indoor CO₂ Transcritical Parallel Rack



System Solutions

By employing parallel compression, these systems achieve unrivaled efficiency through precise load balancing and optimized energy consumption.

Indoor Parallel Rack

The indoor parallel rack systems are delivered with complete integrated piping, wiring, controls, etc. to save time with install. It is ideally suited for machine, utility, or equipment rooms.

Outdoor Parallel Rack

Maximize space efficiency with our outdoor parallel rack systems. Install them on a concrete pad or roof to free up valuable space. It includes easy access to all interior components with hinged or removable panels.

Custom Electrical Mechanical Center

Electrical mechanical centers are rugged, versatile, and efficient. Constructed with a robust steel base, a resilient rubber membrane roof, and high-quality insulated exterior panels, these centers withstand even the harshest environmental conditions.

Outdoor Parallel Rack with Removable Panels

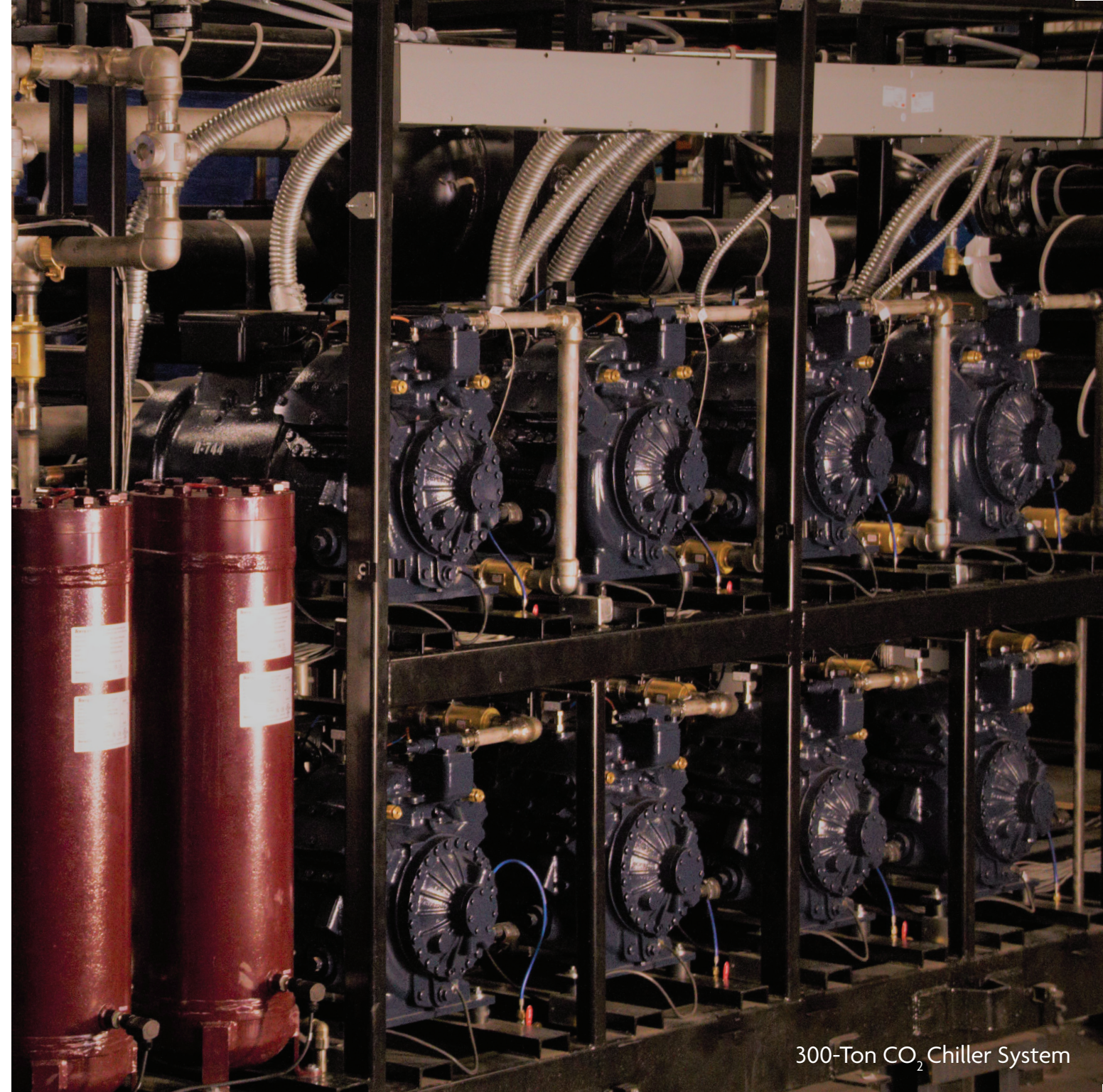
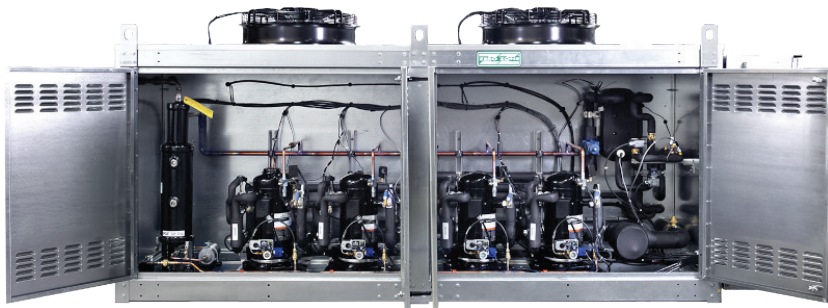
System Solutions

Edge™ Distributed System

By decentralizing the refrigeration process, Edge™ offers lower refrigerant charge, space saving installation, and improved energy performance. Available as an indoor or outdoor system, the Edge products require less piping and reduced construction costs.

Chiller System

Chillers indirect refrigeration systems maintain precise temperature control by using propylene or ethylene glycol process fluids. It utilizes multiple smaller compressors to adapt seamlessly to fluctuating loads, ensuring optimal efficiency.



300-Ton CO₂ Chiller System

Genesys™ by Zero Zone

Natural Solutions

Why natural in pharmaceutical?

These innovative cooling technologies harness the power of nature to create a more sustainable and environmentally responsible approach to refrigeration. By replacing high GWP synthetic refrigerants with natural substances, these solutions play a pivotal role in reducing greenhouse gas emissions and preserving the delicate balance of our planet's ecosystem.



R744 (CO₂)

- > Stable, non-toxic, non-flammable
- > High cooling capacity
- > Low global warming potential
- > Now offering 90-bar rating

R717 (Ammonia)

- > Zero ozone depletion potential (ODP)
- > Superior thermodynamic
- > High efficiency, availability, and reliability



Genesys
natural by





the responsive company™

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