



for LIFE

The Natural Leader

for LIFE



LMP

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for LIFE

Get to Know EVAPCO

Since its founding in 1976, EVAPCO, Incorporated has become an industry leader in the engineering and manufacturing of quality heat transfer products around the world. EVAPCO's mission is to provide first class service and quality products for the following markets:

- **Industrial Refrigeration**
- Commercial HVAC
- Industrial Process
- Power

These quality products for the industrial refrigeration market include: refrigerant condensers, cooling towers, closed circuit coolers, evaporators, hygienic air handlers, packaged low charge ammonia systems, packaged transcritical CO₂ rack systems, pressure vessels and packages, waters systems and controls and automation.

The EVAPCO Wilson E. Bradley Research & Development Center

Featuring a state-of-the-art, low-temperature, insulated environmental test chamber and a fully functional ammonia refrigeration system designed to operate at suction temperatures as low as -60°F, the EVAPCO Research & Development Center enables us to find groundbreaking solutions for the industry's biggest challenges. The newest addition to EVAPCO's R&D center is a CO₂ testing lab.



EVAPCO Global Headquarters, Taneytown, Maryland USA



Why NH₃ and CO₂?

EVAPCO is focused on the innovation and manufacturing of industrial refrigeration equipment and systems designed for use with the two leading natural refrigerants in the world – Ammonia (NH₃) and Carbon Dioxide (CO₂). Today, natural refrigerants are the most climate-friendly solutions to the industry.

Ammonia, R-717, is the most environmentally friendly refrigerant available because it has a 0 rating for both Ozone Depletion Potential (ODP) and Global Warming Potential (GWP). These benefits for our planet, combined with the refrigerant's unmatched thermodynamic properties and energy efficiency, have made it the most widely used natural refrigerant in the world.



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Carbon Dioxide, R-744, is gaining more and more traction in the refrigeration industry as an alternative to synthetic refrigerants. With an ODP of 0 and a GWP of 1, CO₂ is a substantially eco-friendlier refrigerant than synthetics. Also, some end users may choose CO₂ over NH₃ because of the lower toxicity, even though both refrigerants have proven to be safe to utilize when good engineering practices are followed.

In addition, the passing of the American Innovation and Manufacturing Act (AIM Act) in early 2021 has solidified the phasedown of production and consumption of synthetic HFC refrigerants. The government, specifically the EPA, started this initiative because of the harmful effects HFCs have on the environment.



With the phase out of HFCs in full swing, we are confident that NH₃ and CO₂ will continue to be the go-to refrigerant solutions for the foreseeable future. EVAPCO is committed to being a leader in both technologies.



"The Industrial Refrigeration team at EVAPCO is committed to leading the industry with natural refrigerant-based heat transfer technology. These solutions are focused on making the Food, Beverage, Rink and Cold Chain industries more **Sustainable, Reliable and Energy Efficient.**"

Pat Strine - Sr. Vice President, Refrigeration Sales & Marketing

NH₃ is at the core of EVAPCO's Vision for Industrial Refrigeration

Did you know that an Ammonia PMC evaporative condenser was the 1st product that EVAPCO manufactured back in 1976?

In fact, the Industrial Refrigeration Industry has been such a cornerstone in the success of our company that we continue to invest in the R&D of ammonia-based products. We continue to focus our R&D investment on ammonia products and expansion of ammonia-based product lines, like our family of industrial evaporators. EVAPCO's goal is to be the leading manufacturer of equipment designed for use with natural refrigerants at the highest possible energy and water efficiency, while providing world-class service in support of this industrial equipment.

Evapcold

The Evapcold team was assembled in 2014 in anticipation that the refrigeration industry would desire a way to continue taking advantage of the benefits of ammonia, while reducing the overall system's refrigerant charge. The results were the development of factory assembled, best-in-class low charge ammonia refrigeration systems.



Condensers are available in evaporative, hybrid, adiabatic, and dry designs for all installation needs.



Evaporators are built for both ceiling hung and penthouse applications with hygiene in mind.



Critical Process Air (CPA) systems are the ideal solution for precise control of temperature, humidity, airflow containments, and room pressurization.



RVS's recirculators and vessels keep NH₃ and CO₂ moving efficiently through the system.

Whether it is a packaged or stick built system...

We do it all!



Packaged System



Heat Rejection



Transcritical CO₂ Rack System

RVS Vessels

Our Vision has Expanded to Include the Whole CO₂ Package

Gas Coolers



CO₂ Evaporators



EVAPCO LMP Transcritical CO₂ Systems are a great choice for many applications, including Cold Storages of all sizes and smaller industrial applications where previously, synthetic refrigerants may have been used. These systems offer an efficient, environmentally friendly and sustainable solution for your refrigeration needs. Combining the LMP Transcritical package with EVAPCO's certifiable high pressure CO₂ evaporators and industrial eco-Air™ gas cooler on your next project will ensure the highest system efficiencies plus single source responsibility from your trusted partner, EVAPCO.

The patented flagship Purity line of transcritical CO₂ systems is suitable for blast, freezer, medium and high temperature applications. EVAPCO LMP also supports secondary fluid applications with its Yellowstone pumping station package. All EVAPCO LMP systems are designed and manufactured with simple installation and rapid commissioning in mind.

Refrigerant Storage

Heat Absorption

Controls & Automation

NORTH AMERICAN **NATURAL REFRIGERATION** MANUFACTURING & ENGINEERING LOCATIONS



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