evapco®

CPA HYGIENIC AIR-HANDLING UNITS











25 Years of Field-Proven Critical Process Air Innovation



evapco® for LIFE

Get to Know EVAPCO

EVAPCO Iowa, Lake View, Iowa USA

Home of EVAPCO's Air-Handling Manufacturing and Factory-Acceptance Tests

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, adiabatic condensers, cooling towers, closed circuit coolers, evaporators, hygienic air handlers, packaged low-charge ammonia systems, transcritical CO_2 rack systems, ASME pressure vessels and packages, water conservation and treatment systems, and controls and automation.

EVAPCO is focused on making the food, beverage, pharmaceutical, ice rink, and cold chain industries more sustainable, reliable, and energy efficient. We are your One-Stop-Shop for a Full Spectrum of Refrigeration Equipment Solutions, from evaporative to completely dry air-cooled condensers, to small unit coolers, evaporators and custom-designed hygienic air handlers. Whether it's environmentally friendly NH_3 or CO_2 refrigeration packages or plant-wide facility controls, you can count on EVAPCO products to enable you to operate your refrigeration system efficiently and with complete peace of mind.

EVAPCO, The Natural Leader for LIFE.



Full Spectrum Global Solutions

The EVAPCO Difference

EVAPCO's Critical Process Air (CPA) air-handling unit sets the standard in the food-processing industry. By supplying a reliable critical process air handling solution, EVAPCO allows food-processing facilities to maximize production time, minimize the risk of food-borne illness, and produce a quality product for consumers.

With 25 years of field-proven experience, EVAPCO is the leader in the food-processing industry for engineering and supporting ultra-hygienic and custom air-handling systems that maintain critical room conditions and minimize downtime. Customers repeatedly choose EVAPCO not only because of our history, but because they know when they choose EVAPCO they are getting the highest-quality product backed by the best customer service in the industry.

Only EVAPCO can provide a custom air handling unit for every application found within a food-processing facility. From areas that require the ultimate in hygiene, to production spaces that require precise humidity and temperature control, from the smallest rooms to the largest, EVAPCO has a proven, custom air handling solution that will provide food-processing facilities with the ultimate peace of mind.



Critical Process Air (CPA)
Hygienic Air-Handling system

25 Years of Critical Process Air Innovation



A Legacy of Engineering Innovation

EVAPCO's Air Handling Division history demonstrates a steady progression from field experience to a complete critical process air platform. Since its beginnings, EVAPCO has advanced from early desiccant technology to sequential defrost, Ultra-Hygienic construction, and heat recovery solutions while placing more than 4,500 units into service. This history gives customers confidence that EVAPCO understands the operating realities of food-processing facilities and continues to design equipment around sanitation, humidity control, service accessibility, heat recovery, energy efficiency, and long-term lifecycle value.

25 Years of Air Handling Experience
4,500+ Units Sold Since Inception

Milestone History

Year	Field-Proven Milestones
2001	First desiccant air handling system placed in the field, establishing EVAPCO's ability to deliver reliable low-humidity control for demanding food-processing environments.
2005	EVAPCO's controls group provided Allen-Bradley controls on an air handler, marking an important step toward integrated, factory-engineered control of complete air-handling systems.
2006	First sequential defrost system placed in the field, improving EVAPCO's ability to provide more cooling in low-temperature room applications and continuous run time.
2009	First Ultra-Hygienic system introduced, advancing sanitation-focused construction and cleanability for facilities with rigorous food-safety requirements.
2009	First heat recovery air handling system placed in the field, demonstrating how process exhaust energy could be recovered to reduce operating costs and improve efficiency.
2010	Achieved 2-Star compliant design, distinguishing EVAPCO as the only North American supplier meeting this requirement and reinforcing its leadership in hygienic equipment design.
2011	Created the first surge drum catwalk system, improving safe service access and integrating refrigeration-system maintenance needs into the overall equipment design.
2013	Launched CPA-80 and CPA-90 case sizing, expanding capacity to 112,000 CFM and enabling EVAPCO to serve larger process spaces with a single engineered unit.
2014	Introduced the "upblast" exhaust fan design, reducing the potential for discharged air to be drawn back into the facility.
2017	Pioneered the first EVAPCO service platform, providing safer, more practical access to components and reducing the difficulty of inspection and maintenance.
2017	Developed an air handler meeting Class I, Division 2 electrical requirements, expanding EVAPCO's ability to support hazardous-location applications with specialized safety needs.
2020	Launched CPA-100 and CPA-120 case sizing, expanding capacity to 150,000 CFM.
2021	Introduced fan-wall technology to CPA units, adding airflow redundancy, improving part-load efficiency, and simplifying service compared with a single large fan arrangement.
2024	Launched the industry's first field retrofit program to support the retrofit of both existing EVAPCO and competitors' equipment.



What This History Means for Customers

- **EVAPCO is not new to hygienic process air;** the platform is supported by decades of field application experience.
- **The division's development path** shows a practical focus on food plant needs: humidity control, defrost reliability, sanitation, heat recovery, and maintainability.

OUR CAPABILITIES INCLUDE:

- Unmatched standard unit sizes to cover a wide variety of applications, ranging from 1,000 to 150,000 CFM in a single unit
- Custom configurations with a wide range of accessories to meet the most demanding applications
- Custom unit sizes available to meet site layout requirements or existing structural steel
- Trained sales team dedicated to helping you find the best rooftop solution
- First-class service team for start-up, commissioning, and aftermarket support



Complete Critical Process Air Platform

BROAD CAPACITY. HYGIENIC DESIGN. FULL-SERVICE LIFECYCLE SUPPORT.

1,000-150,000 CFM | CPA-2 through CPA-120 | Engineered for demanding hygienic applications

EVAPCO delivers more than an air handler. The CPA platform combines sanitation-focused construction, precise environmental control, practical service access, flexible custom engineering, and field support into one integrated solution for demanding food-processing applications.

DESIGN, HYGIENE & CLEANABILITY

- Ultra-Hygienic options include stainless-steel interiors, fully welded drainage, Sani-Clean filter frames, hygienic closures, and reduced exposed threaded fasteners.
- Flush wall-to-drain-pan transitions and minimized horizontal ledges help reduce difficult-to-clean areas, simplify sanitation, and reduce cleaning labor.
- Walk-in access and service doors support inspection, cleaning, and sanitation throughout major sections.

SERVICEABILITY & LIFECYCLE VALUE

- Access can extend to integral exhaust, filters, coils, blowers, motors, dampers, controls, and drainage areas.
- Service vestibules, platforms, lighting, receptacles, catwalks, and motor-removal systems support efficient maintenance.
- Practical access helps simplify inspection, component replacement, troubleshooting, and long-term ownership.

BROAD CAPACITY & APPLICATION RANGE

- Approximately 1,000 to 150,000 CFM, with CPA-2 through CPA-120 configurations for small rooms through large single-unit applications.
- Arrangements can support return air, outside air, cleanup, dehumidification, heating, cooling, reheat, exhaust, and energy recovery.
- Solutions scale from smaller process rooms to large single-unit applications.

PERFORMANCE, RECOVERY & CONTROLS

- Engineered selections address temperature, humidity, pressure, airflow, filtration, heating, cooling, reheat, and exhaust.
- Desiccant dehumidification supports moisture control, while heat- and energy-recovery options help improve energy efficiency and reduce demand on the facility's central refrigeration system.
- PLC-based controls can coordinate production, cleanup, recovery, economizer, room-pressure, and maintenance modes, with HMI, VFD, BACnet, and remote-panel options.
- CO_2 abatement options are available for applications requiring control of carbon dioxide levels in the processing space.

CUSTOM FIT & ENGINEERED FLEXIBILITY

- Flexible layouts can accommodate existing curbs, roof openings, footprints, duct connections, shipping limits, and service clearances.
- Options include sequential defrost, direct- and indirect-fired burners, custom coils, multiple blowers, fan walls, filtration upgrades, and specialty materials.
- Each unit is engineered around the facility, process, operating modes, and project constraints.
- Fan-wall configurations provide added redundancy, improve part-load efficiency, and simplify maintenance.

RETROFIT, START-UP & CUSTOMER SUPPORT

- Retrofit capabilities can address mechanical, electrical, and controls modernization of existing equipment.
- Field service can support installation, recommissioning, and verification in coordination with the refrigeration contractor.
- Our team is continually growing and currently includes six sales team members and ten start-up technicians who support customers, with dedicated start-up resources covering mechanical, electrical, controls, refrigeration, burner, airflow, and customer-turnover activities.
- Factory-acceptance testing helps reduce commissioning uncertainty and improve confidence before equipment arrives on site.

100% OUTSIDE AIR SOLUTIONS

- EDF models are designed for 100% outside air applications and can provide both heating and cooling.
- Flexible heating and cooling sources support industrial and food-processing applications.
- EDF models provide make-up air and building pressurization while helping maintain desired space temperatures and operating conditions.

Lake View, Iowa - Facility Growth Timeline

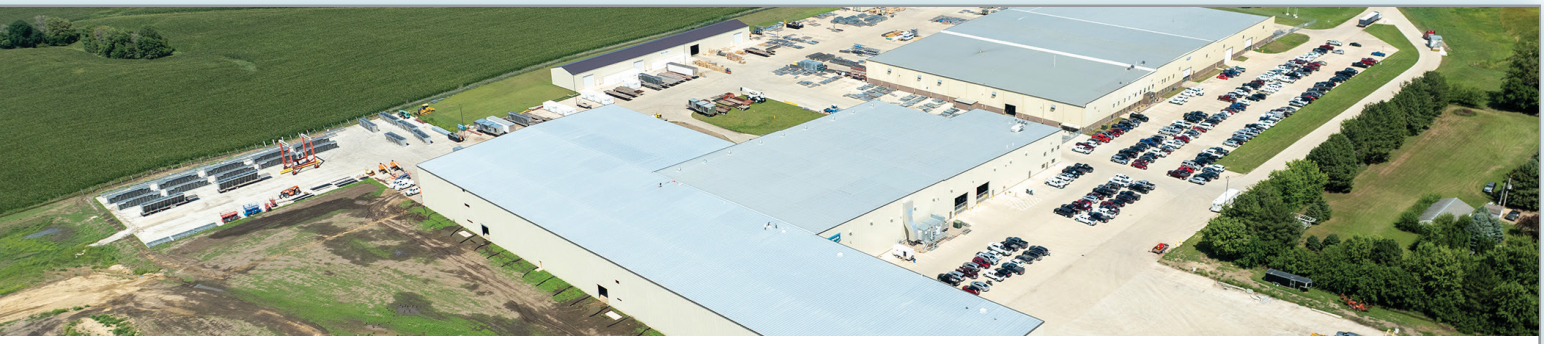
From a 45,000-square-foot start to a multi-building manufacturing campus, the Lake View facility has expanded alongside EVAPCO Iowa's product range, workforce, and vertically integrated manufacturing capabilities.



Year	Lake View Facility Milestones
1999	EVAPCO broke ground on the original Lake View manufacturing facility, establishing a 45,000-square-foot home for the company's growing Iowa operation.
2000	The facility shipped its first air handler, marking the beginning of production in Lake View and the start of what would become EVAPCO's critical process air manufacturing operation.
2002	The first 45,000-square-foot expansion doubled the plant to 90,000 square feet, creating capacity for continued growth in custom air handling and refrigeration-related equipment.
2008	The Lake View operation reached 50 shop employees, reflecting steady growth in production demand and local manufacturing capability.
2010	The shop workforce reached 100 employees, doubling from the 2008 milestone as the facility's production activity continued to expand.
2012	A second 47,500-square-foot expansion increased the manufacturing footprint to 137,500 square feet and provided additional space for fabrication, assembly, and support operations.
2017	The Lake View shop reached 150 employees, continuing a long-term pattern of investment in skilled manufacturing and internal capabilities.



Custom air-handling equipment manufactured at EVAPCO's Lake View facility supports demanding critical process applications.



EVAPCO's Lake View manufacturing campus has expanded alongside growing demand for custom air-handling and refrigeration equipment.

Year	Lake View Facility Milestones
2018	Office space within the original building was expanded to support the growing engineering, production, administrative, and customer-support teams serving the Iowa operation.
2020	EVAPCO purchased 37 additional acres in Lake View, securing land for future manufacturing growth and long-range campus development.
2022	Building B added approximately 64,000 square feet of assembly space, bringing the campus to 201,500 square feet.
2023	Building C added approximately 15,000 square feet for an expanded parts warehouse, increasing the total facility footprint to 216,500 square feet and improving material storage and production support.
2025	The Lake View shop reached 250 employees, five times the 2008 workforce milestone and evidence of the facility's sustained growth.
2026	A 95,000-square-foot expansion to Building B increased the planned campus footprint to approximately 311,500 square feet. The project also brought three tube mills to Iowa, expanding vertical integration and supporting local production for the eco-Air product line and evaporators.



Customer support extends beyond manufacturing, with six Minnesota sales team members and ten start-up technicians supporting customers throughout the equipment lifecycle.



The people behind every unit: EVAPCO's Lake View team brings manufacturing expertise and craftsmanship to critical process air applications.

Illustrative Application: Poultry Processing

The following illustrative example explores the challenges of a high-care poultry processing room and shows how an EVAPCO custom air-handling system can be configured to support production, sanitation, and the return to operation.

THE APPLICATION

A +35°F high-care poultry processing room must maintain temperature, control humidity, hold positive building pressure, and recover quickly after sanitation. Door openings, product movement, outside air, and washdown continually change the cooling and moisture loads, making steady environmental control difficult for a conventional air-handling system.



Custom CPA air-handling system engineered around the facility's process requirements and operating conditions.

THE ENGINEERED SOLUTION

EVAPCO designs the air handler around the entire operating cycle, not only the room temperature. The system conditions outside air for pressurization, manages moisture and dew point to reduce condensation risk, and provides the refrigeration capacity needed for the processing space.

CONTINUOUS COOLING DURING DEFROST

To achieve the +35°F space temperature this application requires, EVAPCO applies its sequential air defrost cooling coil design. Even during defrost, EVAPCO's design allows the unit to operate continuously and supply the required refrigeration capacity to the space, which maintains stable room conditions throughout production.

Designed for Food Processing

RETURNING THE ROOM TO PRODUCTION

Following sanitation, the air handling system removes added moisture and dries the room so the facility can return to production. When facility demands require a room to dry out as quickly as possible after washdown, EVAPCO includes an integrated desiccant section that provides the maximum amount of dehumidification possible in an air handling unit.

RECOVERING HEAT TO REDUCE ENERGY USE

Desiccant units can incorporate energy recovery, which uses heat recovered from regeneration exhaust, to minimize the energy required for desiccant operation.



Desiccant wheel systems are the ultimate in dehumidification technology, providing customers the ideal solution for applications that demand a quick transition between sanitation and production.



Direct-fired burner provides cleanup-cycle heat to support post-washdown drying and the return to production conditions.

HYGIENIC CONSTRUCTION

CPA and CPA Ultra hygienic construction, cleanable surfaces, access, drainage, and application-focused materials support the facility's sanitation requirements.

EVAPCO's custom air-handling systems are engineered to meet the demanding requirements of food-processing facilities. From precise environmental control to hygienic design and dependable field support, the CPA product line brings decades of proven experience to your facility's challenges.

EVAPCO's air-handling division is a team you can count on for your most hygienic air-handling requirements, now and for a lifetime.

EVAPCO, The Natural Leader for LIFE.

WORLDWIDE MANUFACTURING LOCATIONS



EVAPCO, Inc. — World Headquarters & Research / Development Center

P.O. Box 1300 • Westminster, MD 21158 USA
410.756.2600 • marketing@evapco.com • **evapco.com**

North America

EVAPCO, Inc.
World Headquarters
Westminster, MD USA
410.756.2600
marketing@evapco.com

EVAPCO East
Taneytown, MD USA

EVAPCO East
Key Building
Taneytown, MD USA

EVAPCO Midwest
Greenup, IL USA
217.923.3431

EVAPCO Newton
Newton, IL USA
618.783.3433

EVAPCO West
Madera, CA USA
559.673.2207

EVAPCO Alcoil, Inc.
York, PA USA
717.347.7500
info@evapco-alcoil.com

EVAPCO Iowa
Lake View, IA USA

EVAPCO Iowa
Sales & Engineering
Medford, MN USA
507.446.8005

EVAPCO LMP ULC
Laval, Quebec, Canada
450.629.9864
info@evapcolmp.ca

EVAPCO Select Technologies, Inc.
Belmont, MI USA
844.785.9506
emarketing@evapcoselect.com

Refrigeration Vessels & Systems Corporation
Bryan, TX USA
979.778.0095
rvs@rvscorp.com

Tower Components, Inc.
Ramseur, NC USA
336.824.2102
mail@towercomponentsinc.com

EvapTech, Inc.
Edwardsville, KS USA
913.322.5165
marketing@evaptech.com

EvapTech Gulf Services
Houston, TX USA
281.529.6526
angie.montes@evaptech.com

EVAPCO Dry Cooling, Inc.
Bridgewater, NJ USA
908.379.2665
info@evapcodc.com

EVAPCO Dry Cooling, Inc.
Littleton, CO USA
908.895.3236
info@evapcodc.com

Asia Pacific

EVAPCO Asia Pacific Headquarters
Baoshan Industrial Zone Shanghai, P.R. China
(86) 21.6687.7786
marketing@evapcochina.com

EVAPCO (Shanghai) Refrigeration Equipment Co., Ltd.
Baoshan Industrial Zone, Shanghai, P.R. China

EVAPCO (Beijing) Refrigeration Equipment Co., Ltd.
Huairou District, Beijing, P.R. China
(86) 10.6166.7238
marketing@evapcochina.com

EVAPCO India Private Limited
Pune, Maharashtra 410501, India
info@evapco.in

EVAPCO Air Cooling Systems (Jiaxing) Company, Ltd.
Jiaxing, Zhejiang, P.R. China
(86) 573.8311.9379
info@evapcochina.com

EVAPCO Australia (Pty.) Ltd.
Riverstone, NSW, Australia
(61) 02.9627.3322
sales@evapco.com.au

EvapTech (Shanghai) Cooling Tower Co., Ltd
Baoshan District, Shanghai, P.R. China.
Tel: (86) 21.6478.0265

EvapTech Asia Pacific Sdn. Bhd.
Puchong, Selangor, Malaysia
(60) 3.8070.7255
marketing-ap@evaptech.com

Europe | Middle East | Africa

EVAPCO Europe
EMENA Headquarters
Tongeren-Borgloon, Belgium
(32) 12.39.50.29
evapco.europe@evapco.be

EVAPCO Europe BV
Tongeren-Borgloon, Belgium

EVAPCO Europe, S.r.l.
Milan, Italy
(39) 02.939.9041
evapcoeurope@evapco.it

EVAPCO Europe, S.r.l.
Sondrio, Italy

EVAPCO Europe A/S
Aabybro, Denmark
(45) 9824.4999
info@evapco.dk

EVAPCO Europe GmbH
Meerbusch, Germany
(49) 2159.69560
info@evapco.de

EVAPCO Middle East FZCO
Dubai, United Arab Emirates
(971) 56.991.6584
info@evapco.ae

Evap Egypt Engineering Industries Co.
A licensed manufacturer of EVAPCO, Inc.
Nasr City, Cairo, Egypt
(20) 10.054.32.198
evapco@tiba-group.com

EVAPCO S.A. (Pty.) Ltd.
A licensed manufacturer of EVAPCO, Inc.
Isando, South Africa
(27) 11.392.6630
evapco@evapco.co.za

South America

EVAPCO Brasil
Equipamentos Industriais Ltda.
Sorocaba, São Paulo, Brazil
(55) 11.5681.2000
vendas@evapco.com.br

FanTR Technology Resources
Sorocaba, São Paulo, Brazil
(55) 11.4025.1670
fantr@fantr.com

Bulletin CPA26MRKT

©2026 EVAPCO, Inc.

Committed to making life easier, more reliable and more sustainable for people everywhere