INDUSTRIAL REFRIGERATION CONDENSERS

Total Condenser Product Overview

Evaporative, Hybrid, Adiabatic & Dry



















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

Learn More Now

Visit evapcoasia.com to download product catalogs, view complete product specifications, and more.

EVAPCO is more than a name.

It's a pledge to make everyday life easier, more comfortable, more reliable, and more sustainable for people everywhere. How do we fulfill that promise? It's simple.

We never stop innovating.

At EVAPCO, we don't just talk about innovation, it's ingrained in our workflow. Guided by our annually developed R&D plans, we set out to find groundbreaking solutions that transform the way the world works for the better. It's why we have more than 300 active patents.

We craft exceptionally built solutions.

As an employee-owned company, we take pride in our work. We are proud to be one of the most experienced teams of engineers and craftsmen in the industry. This translates into solutions that are always exceptionally built. EVAPCO has an unwavering commitment to provide "best in class" heat transfer solutions and services.

We guarantee performance.

Every EVAPCO solution is put through rigorous research and testing to ensure maximum efficiency and reliability. But we don't stop there. EVAPCO is an industry leader in independent, third-party performance certifications. These certifications guarantee our performance metrics—so that you can plan your projects with complete peace of mind.

We protect the environment.

Innovation and environmental sustainability go hand-in-hand at EVAPCO. Our industrial heat transfer equipment not only conserves natural resources and helps reduce noise pollution, but also features recycled steel content in construction. EVAPCO's stainless steel units are constructed of panels that contain up to 75% of recycled content, and our galvanized units contain over 80%. From sound reduction to water conservation to chemical elimination, we are continuously developing new technologies that deliver the ultimate operating advantages to our clients—while protecting the planet for every generation to come.



Full Spectrum Global Solutions

EVAPCO offers the full spectrum of condenser solutions from fully evaporative to fully dry.



EVAPCO's wide array of industrial refrigeration condenser products ensure we have the optimum solution to meet all applications. EVAPCO condensers can be selected to reduce energy consumption, mimimize or eliminate water usage, or a combination of the two. Utilizing EVAPCO's Spectrum $^{\text{TM}}$ selection software, the optimum condenser can be selected to meet the design goals of projects. Contact your local EVAPCO Representative for assistance in selecting the unit that best fits your application.

Smart Shield® Solid Chemistry Water Treatment System

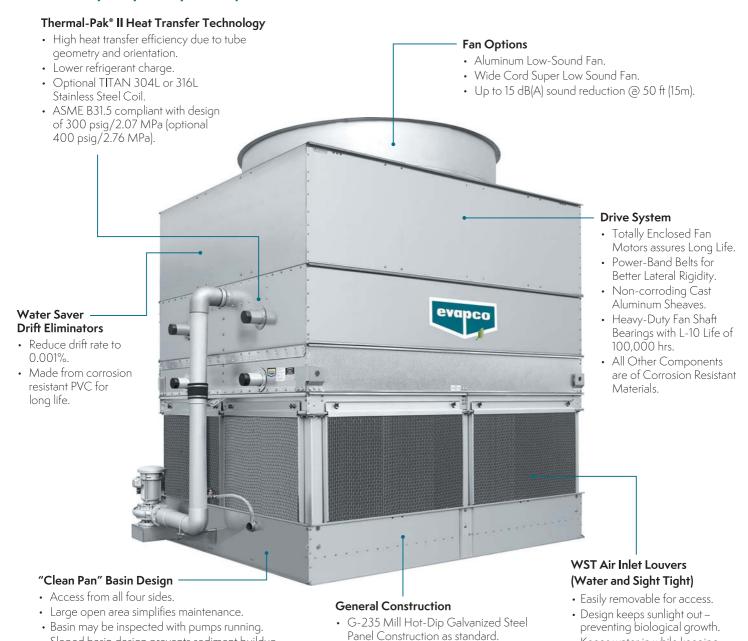


EVAPCO's SmartShield® solid chemistry water treatment system is an innovative solution to conventional liquid chemical programs. SmartShield® was developed specifically for evaporative condensers and closed circuit coolers. The system comes factory mounted and includes all the components required for an effective water treatment system. Solid products eliminate the potential for liquid spills making it easier and safer to use. Controlled release chemistry provides uniform treatment over a 30 day period.



ATC-E

The industry's advanced induced draft condenser, providing high efficiency with unparalleled flexibility for your layout requirements.



The ATC-E line of induced draft evaporative condensers reflects EVAPCO's continuing commitment to research and development. The advanced design provides owners with many operational and performance advantages. The owner-oriented features of the ATC-E, along with the independent certification of IBC compliance, reinforce the ATC's position for the industrial refrigeration industry. The ATC-E condenser is available in box sizes ranging from 4' x 6' (1.2m x 1.8m) to 24' x 40' (7.3m x 12.2m) and capacities from 35 to 2,637 Ammonia Tons.

• Available in both 304 and 316

Stainless Steel Panel Construction.

Keeps water in while keeping

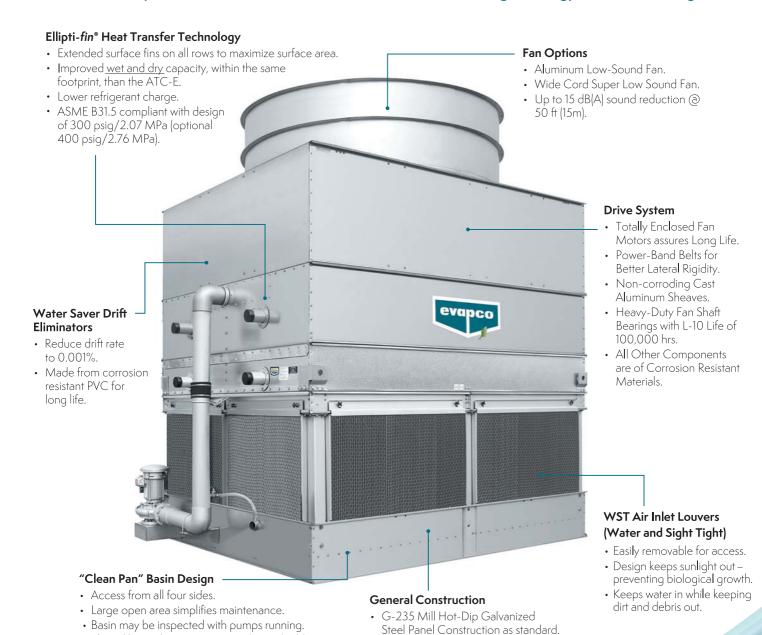
dirt and debris out.

· Sloped basin design prevents sediment buildup,

biological film and standing water.

eco-ATC-A

All the benefits of the ATC-E but with increased wet capacity and much improved dry capacity thanks to EVAPCO's Ellipti-fin® extended surface heat transfer coil, resulting in energy and water savings.



The **eco-ATC-A** line of induced draft evaporative condensers includes many of the advanced ATC-E features while utilizing the Ellipti– fin° extended service heat transfer coil. The eco-ATC-A offers improved heat transfer during wet operation and offers significant water savings due to extended periods of dry operation. With high dry bulb switchover temperatures, dry operation near or above freezing are easily accomplished making eco-ATC-A an ideal solution for cold climates. The eco-ATC-A condenser is available in box sizes ranging from 4' x 6' (1.2m x 1.8m) to 24' x 40' (7.3m x 12.2m) and capacities from 87 to 2.728

· Available in both 304 and 316

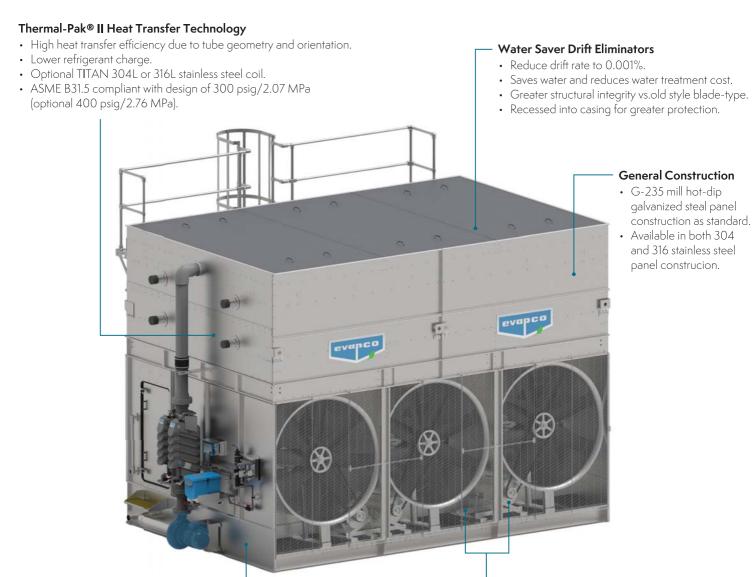
Stainless Steel Panel Construction.

• Sloped basin design prevents sediment buildup,

biological film and standing water.

PMRC

The redesigned PMRC product line utilizes single-stage axial fan configuration at ground level with more redundacy, increased reliability, and easy maintenance access.



Individual Fan Drive System

- Pan bottom slopes to drain.
- Easy to clean.

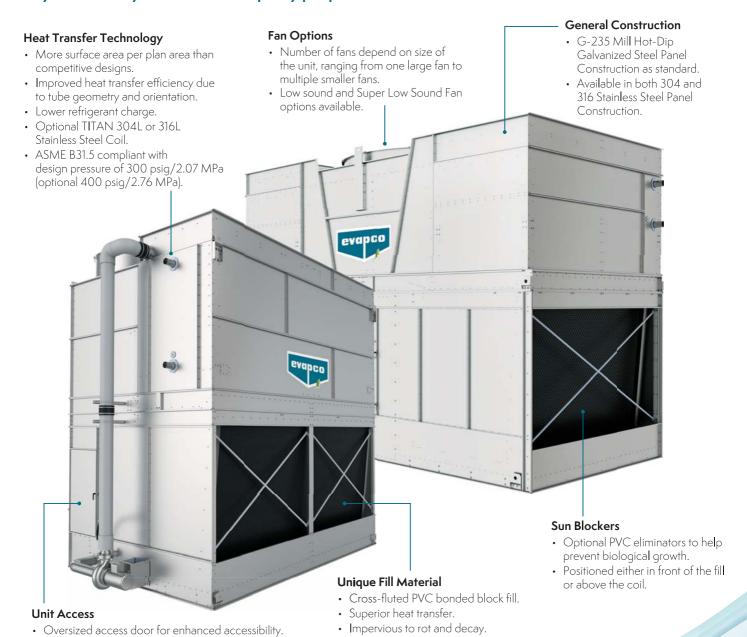
Sloped-Pan Bottom

- Stainless steel strainer resists corrosion.
- Increased flexibility for improved capacity control.
- Greater reliability through redundancy.
- Easy motor replacement.
- Front-mounted drives for improved maintenance accessibility.

The industry standard forced draft axial fan condensers for a reason. The **PMRC** is equipped with many features and benefits that make it *Easy to install...Easy to maintain...Easy on the operating budget...The Easy Choice!* The PMRC condensers are available in capacities ranging from 124 to 1,516 Ammonia Tons.

PHC-E

EVAPCO's Parallel Hybrid Condenser combines EVAPCO's industry leading evaporator coil and cooling fill technology, resulting in smaller coils and reduced refrigerant charge while providing layout flexibility and maximum capacity per plan area.



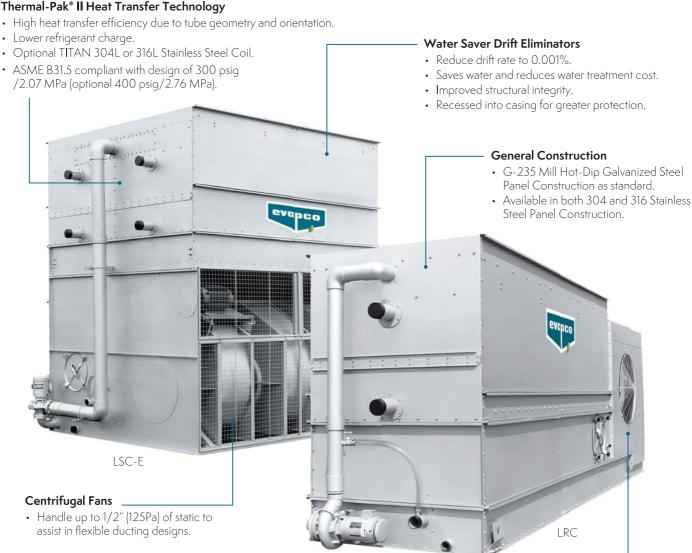
The **PHC-E** line of induced draft evaporative condensers reflect EVAPCO's commitment to product development. The advanced design provides owners with many operational and performance advantages. These parallel-flow hybrid condensers are designed for easy maintenance and long, trouble-free operation. With smaller coil volumes, the PHC-E provides reduced operating refrigerant charge. Multiple units can be in installed in such a fashion to maximize capacity per plan area. PHC-E condensers are available in capacities from 97 to 2,120 Ammonia Tons.

• Internal walkway for safe and easy basin access.

LSC-E & LRC

EVAPCO's forced draft, centrifugal evaporative condensers, the LSC-E and LRC, are suited for low noise applications or ducted applications, whether indoor or outdoor. Additionally, the LRC has been optimized and designed for applications where unit height is paramount.

Thermal-Pak® II Heat Transfer Technology

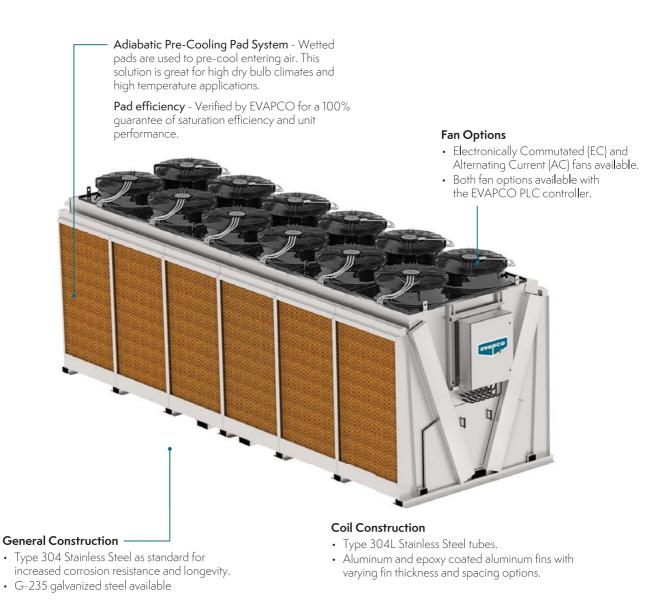


- Totally Enclosed Fan Motors and Superior Drive System
- · Assures long life.
- All normal maintenance can be performed quickly from outside the unit.
- If required, motor may be easily removed.
- · One piece fan shaft no oil lubrication.
- Motors located outboard on multi-cell units for easier drive system access.

The LSC-E and LRC units are a result of EVAPCO's extensive experience in forced draft centrifugal fan design. Models in the LRC line are reduced height units for applications with limited height. Both product lines are suitable for ducted installations; and are designed for easy maintenance, and long, trouble free operation. These units are constructed to be IBC compliant.

eco-Air Adiabatic Pad

The eco-Air Series of adiabatic air-cooled condensers offers maximum water savings, while maintaining similar condensing temperatures as a system using evaporative condensers.



The **eco-Air Series** of Adiabatic air-cooled condensers represents EVAPCO's newest advancement in thermal heat transfer research and development. Available with Adiabatic Pads, these eco-Air units maximize heat rejection with maximum water savings. With the minimal water usage, condensing temperature during peak load and ambient conditions are greatly reduced over an air-cooled condenser, providing peak system efficiencies close to that of a system using an evaporative condenser.

eco-Air Air-Cooled

For applications where cooling water is not available, highly regulated, or is cost prohibitive, the eco-Air Series air-cooled condenser fits the bill.



Advanced Motor Technology – Electronically Commutated (EC) or Alternating Current (AC) fan motor designs



EC

- · High Efficiency
- Zero Maintenance
- Integral Speed Control
- Inherently Low Sound



AC

- Direct drive
- Zero maintenance permanently sealed bearings
- · VFD ready
- · Severe Duty



Common Terminal Box

- All motors factory wired
- · Saves time in the field





Wired ControlsEVAPCO PLC Panel

(EC Motors)

- EVAPCO PLC/VFD Panel (AC Motors)
- Single point power connection

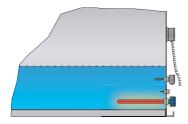
The **eco-Air Series** is a robust, industrial design that is 100% fully rated and backed by EVAPCO's Performance Guarantee. The eco-Air Series offer unparalleled flexibility in a wide range of capacities, footprints, motor types and control options.

Optional Equipment

Electric Heaters

Electric immersion heaters are available factory installed in the basin of the condenser. They are sized to maintain a $40\,^\circ\text{F}/4.4\,^\circ\text{C}$ pan water temperature with the fans off and an ambient air temperature of $0\,^\circ\text{F}/-18\,^\circ\text{C}$, $-20\,^\circ\text{F}/-29\,^\circ\text{C}$, or $-40\,^\circ\text{F}/-40\,^\circ\text{C}$. They are furnished with a thermostat low water protection to cycle the heater on when required and to prevent the heater elements from energizing unless they

are completely submerged. All components are in weather proof enclosures for outdoor use. The heater power contactors and electric wiring are not included as standard.



Self Supporting Service Platforms

Condensers are available with self-supporting service platforms that include access ladders which are designed for

easy field installation. This option offers significant savings in comparison to field constructed, externally supported catwalks. The EVAPCO service platform option is located at each maintenance access door.



eco-ATC-A Condenser with Optional Service Platform and Motor Davit

Motor Davit

In the event that a fan motor should need to be replaced, a lightweight motor davit is available from which a chain fall can be mounted to easily lower the motor to the ground.

Internal Platform on Eco-Air

Certain eco-air models are available with an internal platform for service and maintenance of the motors.



Stainless Steel Basin

Most condenser models are available with an inexpensive all stainless steel basin section. This provides superior corrosion resistance over other materials of construction.

Super-Low Sound Fan

EVAPCO's Super Low Sound Fan utilizes an extremely wide chord blade design and is ideal for low energy, sound sensitive installations without sacrificing thermal performance. This revolutionary technology is

heavy duty fiberglass reinforced polyester hub and blade construction utilizing a forward swept blade design. The Super Low Sound Fan is capable of reducing the unit sound pressure levels 9 dB(A) to 15 dB(A) depending on specific unit selection and measurement location.



Electric Water Level Control

Evaporative condensers may be ordered with an electric water level control in lieu of the standard mechanical float and make-up assembly. This package provides accurate control of water levels and does not require field adjustment.

TITAN Coils—Stainless Steel Construction

EVAPCO offers the options of Type 304L or Type 316L stainless steel construction using the Thermal Pak $^{\circ}$ II coil design. Highly efficient heat transfer coils with the ultimate corrosion protection.





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