# **EVAPCO FOR LIFE** Full Spectrum Global Solutions

### **GLOBAL PRODUCT CATALOG**



Since 1976 An Employee-Owned Company

Commercial HVAC | Industrial Refrigeration | Power Generation | Industrial Process

### **EVAPCO** for LIFE

EVAPCO is more than a name. We are the global innovator in heat transfer solutions for the commercial HVAC, industrial refrigeration, power and industrial process markets. We pledge to make everyday life easier, more comfortable, more reliable and more sustainable for people everywhere.

### OUR COMMITMENT

We never stop innovating. We set out to find groundbreaking solutions that transform the way the world works for the better. It's why we have more than 200 active patents worldwide. We also guarantee performance and put every solution through rigorous research and testing to ensure maximum efficiency and reliability.

# PROTECTING 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. Our 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 developing new technologies that deliver ultimate operating advantages to our clients while protecting the planet for every generation to come.





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### Welcome to EVAPCO...

We are pleased to offer a full spectrum of heat transfer product solutions from 100 percent evaporative to 100 percent dry. These products are available in a wide range of sizes from the smallest factory assembled units to the largest field-erected products ... all available on a worldwide basis. We are quite proud of our full spectrum of global product solutions!

As a respected leader in evaporative cooling technologies, our commitment to Research and Development has led to innovative solutions for our constantly changing world. Solutions that are energy efficient, conserve water, and comply with local regulations.

But that isn't only what makes EVAPCO stand out above the rest. What sets EVAPCO apart from other manufacturers in the Commercial HVAC, Industrial Refrigeration, Power Generation and Industrial Process markets all points back to our team, the EVAPCO family, of which you are a vital part.

EVAPCO associates are fiercely loyal to each other, to our representatives and, most importantly, to the people they serve. We recognize that our customers are at the center of our success and we never take for granted the level of trust that you put in us when it comes to your heat transfer needs.

We demand excellence in everything that we do and we are committed to delivering the highest quality services and products. We're here to make your job easier, to be your partner, and to exceed your expectations.

EVAPCO for Life sums up our commitment. It is our promise that we will always provide you with the most innovative and most reliable products, created and built by the best people in the industry. By choosing EVAPCO, you're letting us know that we're doing the best job possible for you.

We thank you, not only for your business, but for inspiring our message. By working together with you, EVAPCO has been able to consistently breed a level of innovation, craftsmanship, and professionalism that our competitors find difficult to match! We couldn't do it without you!

Very sincerely yours,

William S. Bartley

William G. Bartley President and CEO

### FULL SPECTRUM GLOBAL SOLUTIONS

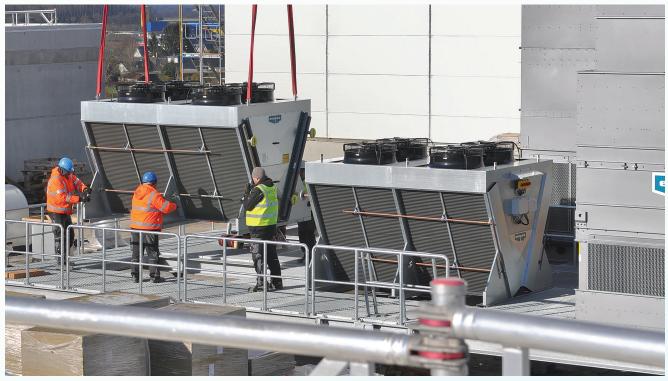


EVAPCO provides a full spectrum of global product solutions for the Commercial HVAC, Industrial Refrigeration, Power Generation and Industrial Process markets.

From the smallest factory assembled cooling tower to the largest field erected air-cooled steam condenser, we offer heat transfer products designed to meet the water and energy requirements for any project. We are committed to providing solutions that are energy efficient and conserve water.

Our latest heat transfer solutions are the factory-assembled eco-Air Series of Dry Coolers, Air Cooled Condensers and Adiabatic Coolers and Condensers. The eco-Air Series completes our successful eco-family of closed circuit coolers and condensers with water-saving dry and adiabatic technology.

As an industry leader in third-party performance certifications, our fully-rated products enable you to operate your cooling systems efficiently and with complete peace of mind.



EVAPCO Air Solutions V Series, Germany

### CLOSED CIRCUIT COOLERS

#### Dry/Adiabatic

The eco-Air Series of Closed Circuit Coolers provides 100 percent dry or adiabatic heat rejection.





eco-Air Flat Series Air Cooled Fluid Cooler

**eco-Air V Series** Air Cooled Fluid Cooler



eco-Air Adiabatic Series V Series Air Cooled Fluid Cooler with Adiabatic Pads



eco-Air Spray Series V Series Air Cooled Fluid Cooler with Adiabatic Spray System

#### Factory Assembled Induced Draft

The eco-ATWB line of Closed Circuit Coolers has been specifically designed to dramatically increase both the evaporative and dry modes of cooling. With this revolutionary design, the eco-ATWB's will save water and energy by increasing the unit's efficiency.



**eco-ATWB** Water-Conserving Advanced Technology



eco-ATWB-E Water & Energy-Conserving Advanced Technology



eco-ATWB-H Optimum Wet/Dry Hybrid Technology



ESW4 Ideal for wet cooling applications where thermal and energy efficiency is of utmost concern.



ATWB The original Advanced Technology provides an induced-draft, axial fan solution for a wide array of cooling applications. Also available in 7' wide containerized boxes.



eco-ATWB-H Closed Circuit Cooler installation

#### Factory Assembled Forced Draft

The LSWE and LRWB are the industry standard in lowsound, centrifugal fan, forced-draft closed circuit coolers.



LSWE Low Sound Centrifugal Fan

LRWB

Low Profile | Low Sound Centrifugal Fan

These water saving eco-units offer improved dry operation on projects with indoor/ducted or confined layouts and low sound requirements.



eco-LSWE Low Sound Water Conserving Centrifugal Fan



eco-LRWB Low Profile Water Conserving Centrifugal Fan



ATW Closed Circuit Cooler with optional Smart Shield Water Treatment System

# **COOLING TOWERS**



#### AT Cooling Tower with optional features

#### Factory Assembled Induced Draft

EVAPCO's state-of-the-art induced draft cooling technology delivers superior operating advantages in any climate. From performance to maintenance, these solutions simply work harder. Choose from a selection of counterflow cooling towers, or the available crossflow and solar-powered options.



**AT** Advanced Technology



**USS/UAT** Ultra Stainless Steel



**UT** Ultra Quiet



**AXS** The Advanced Crossflow Series of Cooling Towers is great for large capacity installations.



**SUN** EVAPCO continues its dedication to energy efficiency improvements with solar panel technology.

#### Factory Assembled Forced Draft

These centrifugal fan cooling towers are utilized in low noise, high static, or ducted applications and are a good solution for tight enclosures.



**LSTE** Low Sound Centrifugal Fan



**LPT** Low Profile | Low Sound Centrifugal Fan

#### Modular Induced Draft

Designed in large modules for ease of installation and reduced field assembly, the AT Atlas is the most energy efficient modular cooling tower on the market.



AT ATLAS Modular Induced Draft Counterflow





AT Atlas large-scale installation.

### CONDENSERS

#### Air Cooled/Adiabatic

Available in a wide range of footprints, motor types, control options and capacities, this complete line of Air Cooled/Dry and Adiabatic products offers unparalleled flexibility.





eco-Air Flat Series Air Cooled Condenser

**eco-Air V Series** Air Cooled Condenser



eco-Air Adiabatic Series V Series Air Cooled Condenser with Adiabatic Pads



eco-Air Spray Series V Series Air Cooled Condenser with Adiabatic Spray System

#### Factory Assembled Induced Draft

EVAPCO condensers are equipped with low pressure drop and high capacity Thermal-Pak® II Coil design. The patented Ellipti-fin® coil technology further enhances our industry leading performance while saving on water consumption.



ATC-E Advanced Technology Series



**eco-ATC-A** Water Conserving Advanced Technology



eco-ATC-H Optimum Wet/Dry Hybrid Technology



**PHC** Great for large industrial refrigeration projects, the PHC offers layout flexibility and reduced piping.



ATC-E Evaporative Condensers with external service platform.

#### Factory Assembled Forced Draft

These products represent the benchmark of industrial refrigeration condenser design. Low noise centrifugal condensers complement the forced draft product offerings.



**PMC-E** Low Power Axial Fan



**LSC-E** Low Sound Centrifugal Fan



**LRC** Low Profile | Low Sound Centrifugal Fan

The same features and benefits of the PMC line but utilizing patented Ellipti-fin® coil technology to offer water savings benefits.



**eco-PMC** Water Conserving Low Power Axial Fan



PMC-E Evaporative Condenser with external service platform.

### **EVAPORATORS**



#### **Ceiling Hung Solutions**

SSTME Evaporator with long-throw adapter

Enjoy industrial, low maintenance and easy-to-clean cooling in your food storage and processing facilities with EVAPCO's Superior Stainless Technology E-series evaporators, the only independently certified thermal performance and power rated offering available today.



\*These models fall outside the scope of the AHRI Unit Coolers Certification Program but are rated in accordance with AHRI Standard 420.

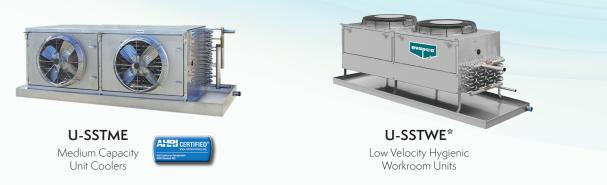
#### Ultra Low Charge Designs

Complete with small diameter internally enhanced tubes, these evaporators are designed for applications where minimum refrigerant charge is of utmost importance.



#### Ultra Hygienic Ceiling Hung Solutions

Ultra Series Industrial Evaporators offer additional design features and accessibility for cleaning beyond those available in the standard SSTME and SSTME product lines, making them the most hygienic ceiling-hung evaporators in the market.



\*This model falls outside the scope of the AHRI Unit Coolers Certification Program but are rated in accordance with AHRI Standard 420.

#### **Custom Design Capabilities**

We offer a broad range of unit configurations, engineering expertise and manufacturing capability to design and build virtually any type of non-cataloged custom coil or special unit.



Draw Through Coils with Inlet Air Filters



Stacked Blast Freezer Evaporator



Spiral Blast Freezer Evaporator



SSTWE Work-Room Evaporators

### HYGIENIC AIR HANDLING UNITS



#### Critical Process Air (CPA) Hygienic Air Handling System

#### Hygienic Cooling & Dehumidification

Engineered to deliver conditioned, purified air to critical food preparation, production and packaging areas in your facility. Allow us to solve your hygienic air handling needs with options ranging from HEPA filtration, UV lights, fully wash down welded stainless construction, room pressurization and many more.



**CPA** Critical Process Air Systems



**SSTP** Penthouse Evaporators



**EDF** Make-Up Air Systems



Critical Process Air (CPA) Hygienic Air Handling System

### EVAPCOLD



#### Packaged Low Charge Ammonia Refrigeration Systems

Requiring just a fraction of the refrigerant charge as compared to traditional field-erected systems, each low charge ammonia refrigeration Evapcold system is expertly crafted as a single-source, quick-to-install solution. Units are available with many optional accessories, including dual compressors.

#### **PENTHOUSE UNITS**



**LCR-P-W** Penthouse Refrigeration System Water Cooled

#### **CHILLER PACKAGES**



**LCR-P-A** Penthouse Refrigeration System Adiabatic Air Cooled



LCR-P-A Penthouse Refrigeration System Air Cooled



**LCR-C-W** Packaged Ammonia Chiller Water Cooled



**LCR-C-A** Packaged Ammonia Chiller Adiabatic Air Cooled



**LCR-C-A** Packaged Ammonia Chiller Air Cooled



Evapcold Low Charge Ammonia Packaged Refrigeration System LCR-P-W



Evapcold Low Charge Ammonia Machinery Room LCR-P

### **RVS – ASME PRESSURE VESSELS**



RVS MPC Chiller Package

#### Refrigeration Packages & ASME Pressure Vessels

Our variety of ASME pressure vessels and recirculation packages offer the latest in microprocessor technology with the Matrix II providing total control for recirculator package pumps, level control and liquid make-up for vessels and system alarms.



MRP Vertical & Horizontal Liquid Recirculator Package



**MPC** Semi-Welded Plate Chiller Package



MVI & MVA Intercooler & Accumulator Package



**MTP** Transfer Package



Matrix II Microprocessor™ Control Panel



Custom Oil and Gas Vessels and Packages

## WATER TREATMENT SYSTEMS

#### Water Solutions





**Pulse~Pure**® Chemical-free, environmentally conscious water treatment systems.







Smart Shield® Reliable, sustainable, solid chemistry water treatment system.

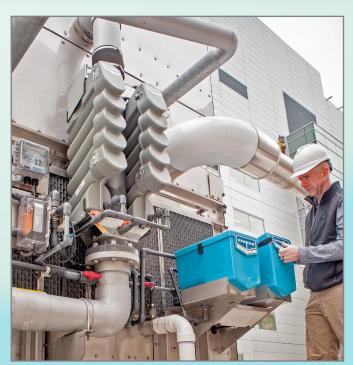


Pass-Protect®

Passivation enhancement process to minimize the formation of white rust.



AT Cooling Tower with optional Pulse~Pure® non-chemical water treatment system



Smart Shield® Factory-Mounted Water Treatment System

# EVAPCO POWER Cooling Requirements For The Power Industry

#### EvapTech – Field Erected Cooling Towers



EvapTech Cooling Towers



Series EC Custom Counterflow



Series EC Custom Counterflow



Series EX Custom Crossflow



Reconstruction services



**EvapDri** Plume abatement & water conservation



Series ECC Concrete Counterflow



Series ECB Back-to-Back Counterflow



**Series ES & ESP** FM Approved Counterflow



EvapTech Asia Pacific



Major projects/Natural draft refurbishments

### EVAPCO Dry Cooling – Dry Cooling Technology



### EVAPCO Dry Cooling Air Cooled Steam Condensers



Two condensers, one structure



250-ton double fan module transportation



Butterfly arrangement to reduce overall height



Custom engineered systems



Turn-key solutions



Modularization for efficient installations

A strong focus on minimizing costs for traditional construction

### EVAPCO DENMARK



V Series with spray, Denmark

evapco

### Dry/Adiabatic & Heat Exchangers

The eco-Air Series of air cooled and adiabatic condensers offers unparalleled flexibility in a wide range of capacities, footprints, motor types and control options.



**F Series** Air-Cooled Condenser or Fluid Cooler



VFW Air Cooled Condenser or Fluid Cooler



**V Series** Air-Cooled Condenser or Fluid Cooler Adiabatic Pads

### Coil Options



Copper/Aluminum Coils



Stainless Steel and Custom Coils



### THERMAL ICE STORAGE SYSTEMS

#### Environmentally Friendly Technology

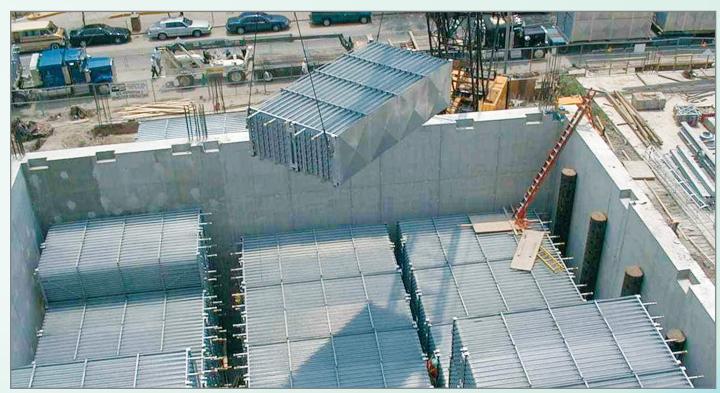
Thermal ice storage provides many environmentally-friendly opportunities that are a result of reduced peak electrical demand. Ice storage shifts power demand to low-cost periods thereby reducing energy costs.



ICE-PAK® Ice-Chilled Energy Storage Units



Ice Coils



EVAPCO Ice Coils

### **EVAPCO ALCOIL**

EVEDCO Alcoil Michael Alcoil

#### MicroChannel Heat Exchangers

Our brazed aluminum heat exchangers for the HVAC/R and Industrial Process markets use Advanced MicroChannel Technology. This innovative technology offers higher performance, smaller size and features and capabilities not found in traditional fin/tube heat exchangers.



HVAC/R Equipment



#### Coil Technology



MicroChannel Extrusion



Controlled Atmosphere Brazing Furnace

### **REPLACEMENT PARTS**

#### EVAPCO is your best parts source for all evaporative and dry cooling equipment

#### Any Part, Any Manufacturer, Any Time

Available parts include ...



... and many more

### MR. GOODTOWER® SERVICE CENTERS



Specialists in the Restoration and Upgrade of All Types of Evaporative Cooling Equipment



Improve thermal performance with high efficiency fill



Improve safety and access with service platforms



Maintain operational integrity with new mechanical components

### TOWER COMPONENTS, Inc.

#### **Film Fills**





TechClean Fill Offset Vertical Fluted High Efficiency Counterflow Film Fill



Evap-Pak 1200/ Opti-Pac 1200 Fill The Highest Efficiency Film Fill Available for Counterflow Applications



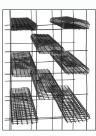
**Opti-Pac 7500 Fill** Crossflow Fill Integrated Louver and Drift Eliminator (Bottom supported crossflow fill packs replace OEM Hanging Sheets)

#### Wastewater Media



Opti-Pac 1200/1900/3000 & VF 30 Modules for Use in Wastewater Applications

#### Splash Fills



**Opti-Bar** High Efficiency Bar Style Splash Fill

#### **Drift Eliminators**



ArchBar Long Spanning, High Efficiency Bar Style Splash Fill



**Opti-Grid** High Efficiency Splash Fill Designed for Performance, Strength & Versatility



**DriAir 80** High Efficiency Cellular Drift Eliminator for Counterflow & Crossflow Applications

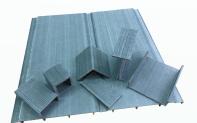


**DriAir 150** Cellular Drift Eliminator for Counterflow & Crossflow Applications

## FIBERGLASS PULTRUSIONS

Fiberglass materials provided exclusively to EvapTech and its subsidiaries







### FANTR

#### Fans for Cooling Systems



Super Low Sound Fan Series SLSF



**Aluminum Fan Series** 



NCR/NCR Series Fan Super High Efficiency

#### Fans for Ventilation Systems



Main Ventilation System TVA Series Fan High Efficiency



Road Way Ventilation System – FRP High Temperature Class



Secondary Ventilation System – TJF High Efficiency

### Ventilation System for Special Applications



Wind Tunnel



Blades in Carbon Fiber Kevlar for Ventilation of Electric Power Generators



Rotors for Wind Tunnel Wireless Controlled

# **U.S. LOCATIONS**





EVAPCO Key Building, Taneytown, Maryland



EVAPCO Midwest, Greenup, Illinois



Evapcold Manufacturing, Greenup, Illinois



EVAPCO Iowa, Lake View, Iowa



EvapTech, Inc., Edwardsville, Kansas



EVAPCO Newton, Newton, Illinois



RVS Corporation, Bryan, Texas



EVAPCO Dry Cooling, Bridgewater, New Jersey



EVAPCO Alcoil, York, Pennsylvania



Tower Components, Inc., Ramseur, North Carolina



EVAPCO West, Madera, California

# INTERNATIONAL LOCATIONS





EVAPCO Brasil Equipamentos Industriais Ltda., São Paulo, Brazil



FanTR, São Paulo, Brazil



EVAPCO Air Solutions, Aabybro, Denmark



EVAPCO (Beijing) Refrigeration Equipment Co., Ltd, Beijing, China



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



EVAPCO S.A. (Pty.) Ltd., Isando, South Africa



EVAPCO Air Cooling Systems (Jiaxing) Company, Ltd., Jiaxing, China



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



Evap Egypt Engineering Industries Co., Cairo, Egypt



EVAPCO Australia (Pty.) Ltd., Riverstone, NSW Australia





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Bulletin GPC20 3M/0520/YGS