



HVAC FEATURES & APPLICATIONS GUIDE



SPECIALISTS IN HEAT TRANSFER PRODUCTS AND SERVICES



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:

- Commercial HVAC
- District Energy
- Industrial Process
- Industrial Refrigeration
- Power

EVAPCO's powerful combination of financial strength and technical expertise has established the company as a recognized manufacturer of market-leading products on a world-wide basis. EVAPCO is also recognized for the superior technology of their environmentally friendly product innovations in sound reduction and water management.

EVAPCO is an employee owned company with a strong emphasis on research & development and modern manufacturing plants. EVAPCO has earned a reputation for technological innovation and superior product quality by featuring products that are designed to offer these operating advantages:

- Higher System Efficiency
- Environmentally Friendly
- Lower Annual Operating Costs
- Reliable, Simple Operation and Maintenance

With an ongoing commitment to Research & Development programs, EVAPCO provides the most advanced products in the industry—**Technology for the Future, Available Today!**



EVAPCO products are manufactured in 17 locations in 8 countries around the world and supplied through a sales network consisting of over 170 offices.

EXPERIENCE, INNOVATION, GUARANTEED PERFORMANCE

EVAPCO engineers are credited as inventors on more than 45 U.S. Patents and their foreign counterparts. This engineering expertise speaks for itself and provides an exceptional foundation for various product development projects. This foundation is the catalyst for providing customer driven features and benefits in an environmentally safe manner.

The state of the art Research & Development Center, located at EVAPCO's World Headquarters in Taneytown, Maryland USA, has over 60,000 square feet dedicated to thermal analysis and product development. Experienced R&D engineers perform product and application research year round in six environmental test chambers.



The Research & Development Center features customized laboratories that are designed to conduct tests through a wide range of environmental conditions. The computerized data acquisition system records the data

and graphically displays continuous results, thereby providing the R&D engineers with valuable test information on a continuous basis.


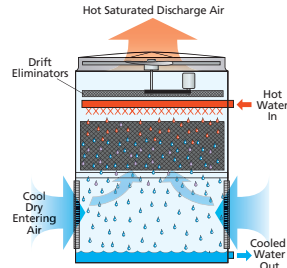

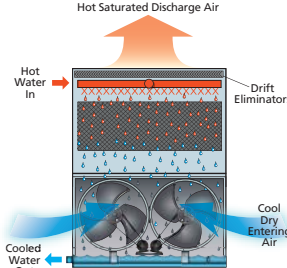

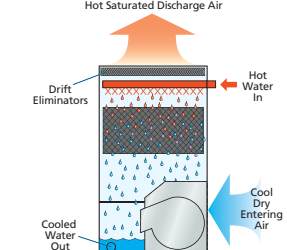

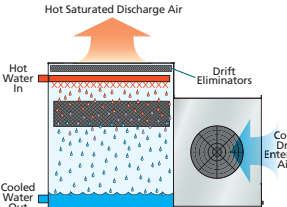

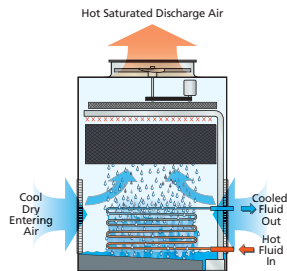
The Research & Development Center also has the industry's largest Low Temperature Environmental Test Chamber. This test chamber was converted from ammonia to CO₂ refrigerant in order to perform detailed thermal analysis on steel evaporators.

In addition, the R&D Center also houses Evapco's Water Analytical Services group which performs advanced chemical and water analysis in support of Pulse~Pure® and Smart Shield™ Water Treatment Systems, an AMCA Fan Test Chamber for evaporator fan performance verification, and an ice thermal storage system with glycol chiller for developing charge and discharge performance ratings. Product sound ratings are measured on a dedicated Sound Test Pad located on the property.


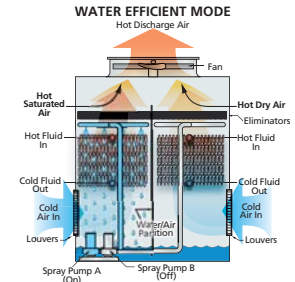

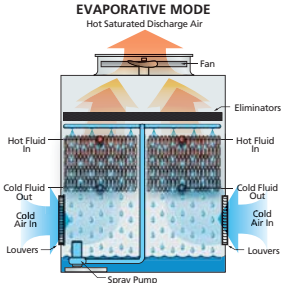

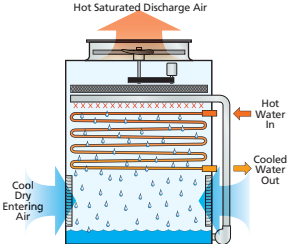

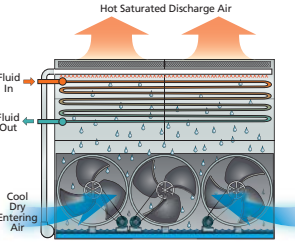

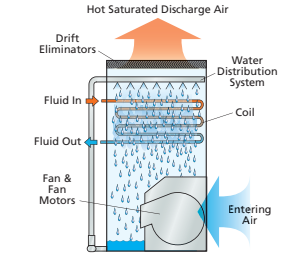

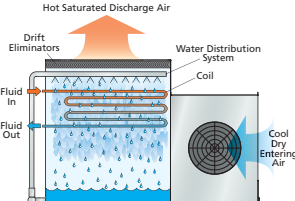
EVAPCO products are the result of extensive research and thermal testing. As a result, EVAPCO products deliver guaranteed performance in order to maximize system performance.

Features and Applications Guide

EVAPCO offers an extensive selection of Open Cooling Towers and Closed Circuit Coolers for all types of applications. The below chart can help guide you to the selection of your next EVAPCO Unit!

Cooling Towers	Applications	Features	Principle of Operation
AT/UT/USS 	<p>AT: A compact, low horsepower induced draft, axial fan solution for all outdoor applications.</p> <p>UT: All of the benefits of the AT plus EVAPCO's Super Low Sound Fan for sound sensitive applications.</p> <p>USS: Suitable for high corrosion areas subject to salt-spray and other corrosive chemicals.</p>	<ul style="list-style-type: none"> 32 to 4,995 nominal tons. Efficiently designed using counter-flow operation. The UT utilizes Evapco's state-of-the-art Super Low Sound Fan for the lowest sound levels. The USS is an all-stainless steel unit with a Type 316 Stainless Steel cold water basin and a Type 304 Stainless Steel upper section for superior corrosion resistance. CTI certified, IBC compliant, ASHRAE 90.1 compliant. 	
PMTQ 	<p>Low horsepower, low sound, forced draft unit suitable for outdoor applications.</p> <p>Perfect for centrifugal fan replacement projects and projects requiring low horsepower or directional sound.</p>	<ul style="list-style-type: none"> 105 to 1,304 nominal tons. Super Low Sound Fans and man-sized access doors are standard on every model. Individual fan drive systems are standard. CTI certified, IBC compliant, ASHRAE 90.1 compliant. 	
LSTE 	<p>Low sound, centrifugal fan, forced draft unit suitable for both indoor and outdoor applications.</p> <p>Designed especially for indoor and ducted layouts. This classic design is also ideal for exact replacement projects.</p>	<ul style="list-style-type: none"> 156 to 1,349 nominal tons. Optional sound attenuation can reduce sound levels even further. CTI certified, IBC compliant, ASHRAE 90.1 compliant. 	
LPT 	<p>Low profile, low sound, centrifugal fan, forced draft unit suitable for both indoor and outdoor applications.</p> <p>Minimal height design allows for placement in height restricted areas. Provides a compact and versatile option for tight layouts.</p>	<ul style="list-style-type: none"> 38 to 333 nominal tons. 304 stainless steel cold water basin is standard. Compact design allows for units to be shipped and rigged in one piece. CTI certified, IBC compliant, ASHRAE 90.1 compliant. 	
Closed Circuit Coolers	Applications	Features	Principle of Operation
ESWA 	<p>A low horsepower induced draft, axial fan solution for all outdoor applications.</p> <p>Innovative design combining both fill and a closed circuit coil makes this unit ideal for wet cooling applications where thermal and energy efficiency is the utmost concern.</p>	<ul style="list-style-type: none"> 88 to 1,854 tons. Utilizes both sensible and latent heat transfer for increased energy efficiency. Sensi-Coil® technology provides increased surface area for additional heat transfer capability. The coil is out of the air stream for reduced scaling potential, water noise, and winter heat loss. CTI certified, IBC compliant, ASHRAE 90.1 compliant. 	

(cont.)

Closed Circuit Coolers	Applications	Features	Principle of Operation
eco-ATWE 	<p>The ground-breaking induced draft, axial fan solution for all outdoor applications where water savings is a primary concern.</p> <p>The design allows for three modes of operation: 100% wet, 100% dry, or a hybrid wet/dry mode for increased dry performance and water efficiency.</p>	<ul style="list-style-type: none"> 10 to 615 nominal tons. Extended surface Ellipti-fin™ coil and dual pumps provide the option to operate in a variety of modes. Sage® water and energy saving control panel is standard with every unit. CTI certified, IBC compliant, ASHRAE 90.1 compliant. 	<p>WATER EFFICIENT MODE</p> 
eco-ATW 	<p>Revolutionary reduced footprint, reduced horsepower, induced draft, axial fan solution for all outdoor applications.</p> <p>Perfect for tight layouts and projects focused on energy efficiency.</p>	<ul style="list-style-type: none"> 10 to 2,552 nominal tons. Extended surface Ellipti-fin™ coil provides the option to operate either wet or dry. Available with optional Sage® water and energy saving control panel. CTI certified, IBC compliant, ASHRAE 90.1 compliant. 	<p>EVAPORATIVE MODE</p> 
ATWB 	<p>The original induced draft, axial fan solution available for a broad range of outdoor cooling capacities.</p> <p>This unit is available in a wide selection of box sizes making it ideal for almost any layout including centrifugal unit replacement projects.</p>	<ul style="list-style-type: none"> 6 to 1,550 nominal tons. Available with optional Super Low Sound Fan and stainless steel construction. CTI certified, IBC compliant, ASHRAE 90.1 compliant. 	
PMWQ 	<p>Low horsepower, low sound, axial fan, forced draft unit suitable for outdoor applications.</p> <p>Perfect for centrifugal fan replacement projects and projects requiring low horsepower or directional sound.</p>	<ul style="list-style-type: none"> 108 to 1,031 nominal tons. Standard with Super Low Sound Fans. Individual fan drive systems. CTI certified, IBC compliant, ASHRAE 90.1 compliant. 	
LSWE 	<p>Low sound, centrifugal fan, forced draft unit suitable for both indoor and outdoor applications.</p> <p>Designed especially for indoor and ducted layouts. This classic design is also ideal for exact replacement projects.</p>	<ul style="list-style-type: none"> 15 to 848 tons. Optional sound attenuation can reduce sound levels even further. CTI certified, FM approved, IBC compliant, ASHRAE 90.1 compliant. 	
LRWB 	<p>Low profile, low sound, centrifugal fan, forced draft unit suitable for both indoor and outdoor applications.</p> <p>Minimal height design allows for placement in height restricted areas. Provides a compact and versatile option for tight layouts.</p>	<ul style="list-style-type: none"> 9 to 223 tons. Standard with 304 stainless steel cold water basin. Compact design allows for units to be shipped from the factory and rigged in one piece. CTI certified, IBC compliant, ASHRAE 90.1 compliant. 	

Design Features

EVAPCO offers an extensive list of features on every single HVAC product sold to market. Since 1976, EVAPCO has continued its strive towards innovation. Below are many of the design features EVAPCO offers on its HVAC products.

EVAPAK® Fill

The **EVAPAK®** fill design used in all Cooling Towers and the ESWA Closed Circuit Cooler is specially designed to induce highly turbulent mixing of the air and water for superior heat transfer. Special drainage tips allow high water loadings without excessive pressure drop. The fill is constructed of inert polyvinyl chloride (PVC), will not rot or decay, and is formulated to withstand water temperatures of 130°F (55°C). A higher temperature fill is available for water temperatures exceeding 130°F (55°C). Consult your EVAPCO representative for further details.

Because of the unique way in which the crossfluted sheets are bonded together, and the bottom support of the fill section, the structural integrity of the fill is greatly enhanced, making the fill usable as a working platform.

EVAPAK® has excellent fire resistant qualities, having a flame spread rating of 5 per ASTM-E84-81a.



Optional Fill Types

Evapco also offers alternate fills as an option on most cooling towers for special applications. Consult your Evapco representative for further details.

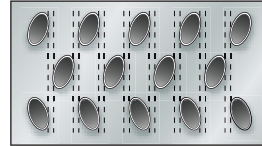
Titan-Pak stainless steel fill is designed for corrosive and high temperature applications. The Titan-Pak fill is constructed completely of stainless steel and is fire retardant. If properly maintained this stainless steel fill will last the life of the cooling tower.

Wide-Pak cross fluted fill is often used in dirty water applications. Wide-Pak fill has a lower surface area than EVAPAK® fill, therefore the tower will need to be sized appropriately to account for the change in available capacity.

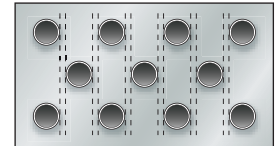
VERTICLEAN® vertical fluted fill is often used in dirty water applications and can handle oil or greases in the system up to 5 PPM. VERTICLEAN® fill has a lower surface area than the Wide-Pak fill, therefore the tower will need to be sized appropriately to account for the change in available capacity.

Thermal-Pak® Cooling Coil

All Evapco Closed Circuit Coolers utilize EVAPCO's patented Thermal-Pak® coil design which assures greater operating efficiency. The elliptical tube design allows for closer tube spacing, resulting in greater surface area per plan area than round-tube coil designs. In addition, the Thermal-Pak® design has lower resistance to airflow and also permits greater water loading, making the Thermal-Pak® coil the most effective design available.



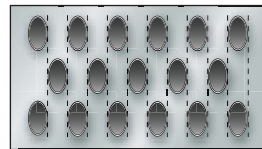
Thermal-Pak® Coil by EVAPCO



Round Tube Coil by Others

Sensi-Coil® Technology (US Patent #7,296,620)

The **Sensi-Coil®**, exclusive on the ESWA closed circuit cooler, features the maximum amount of Thermal-Pak elliptical tubes packed closely together in a coil arrangement designed with over 20% additional coil surface area.



Sensi-Coil®

Evapco's coils are manufactured within the most stringent of quality control procedures. Each circuit consists of high quality steel tubing formed into a continuous serpentine circuit. Each circuit is then inspected and tested prior to being welded into a framed coil assembly. The coil assembly is then pneumatically tested at 400 psig under water to ensure its integrity. The entire coil assembly is then hot-dip galvanized for industrial strength corrosion protection.

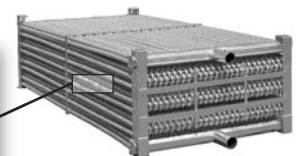
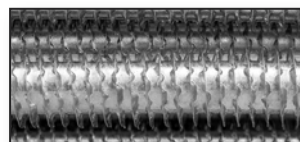
Titan Coil

NOW Evapco offers the optional **TITAN COIL**. Manufactured from type 304L Stainless Steel, the TITAN COIL is manufactured using Evapco's patented elliptical tube design upgraded to Xtra Tough construction featuring: Xtra Durability, Xtra Corrosion Resistance, and an Xtra long 5 YEAR coil warranty as standard. The TITAN COIL is available in both the Thermal-Pak® and **Sensi-Coil®** designs

Ellipti-fin™ Technology (Patent Pending)

Featuring Elliptical Spiral Fin Coil Technology

EVAPCO has developed the most efficient closed circuit cooling coil in the HVAC industry! All coil rows feature patent pending finned Thermal-Pak elliptical tube design. The **Ellipti-fin™** lowers airflow resistance more than typical finned round tubes. This design increases evaporative and dry cooling capacity thereby saving both energy and water.



Patented Efficient Drift Eliminators

An extremely efficient drift eliminator system is standard on all EVAPCO Cooling Towers and Closed Circuit Coolers. The system removes entrained water droplets from the air stream to limit the drift rate to less than 0.001% of the recirculating water rate.

With a low drift rate, EVAPCO units can be located in areas where minimum water carryover is critical, such as parking lots or building walls.

The drift eliminators are constructed of an inert polyvinyl chloride (PVC) plastic material which effectively eliminates corrosion of these vital components. They are assembled in sections to facilitate easy removal for inspection of the water distribution system.



(U.S. Patent # 6,315,804)

Pressurized Water Distribution System

EVAPCO's Induced Draft Cooling Tower water distribution system is made of schedule 40 PVC pipe and EvapJet™ ABS plastic water diffusers for corrosion protection in this key area. The piping is easily removable for cleaning. The water diffusers have a 1 inch diameter (25mm) opening and are practically impossible to clog. They also have an anti-sludge ring



extending into the headers to prevent sediment from building up in the diffuser opening. In addition, the spray branches have threaded end caps to allow easy debris removal.

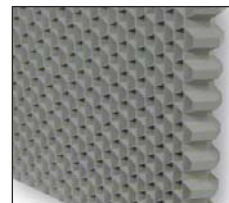
Closed circuit coolers, which have a different spray pattern requirement than cooling towers, use the ZM®II nozzle. These nozzles are threaded into the PVC header pipe at the proper orientation and have a large orifice to prevent clogging.



ZM®II Nozzle

WST Air Inlet Louver

Evapco's water and sight tight (WST) louvers keep water in and sunlight out of induced draft products. The unique non-planar design is made from light-weight framed PVC sections which have no loose hardware, enabling easy unit access. The louver's air channels are optimized to block all line-of-sight paths into the basin eliminating splash-out; even when the fans are off. Additionally, algae growth is minimized by blocking all sunlight.



Stainless Steel Strainers

The EVAPCO standard for many years, the stainless steel strainer is one component of the cooling tower subject to excessive wear and corrosion. With stainless steel construction, this component will last the life of the cooling tower.



CTI Certified-Standard 201

Every Evapco cooling tower and closed circuit cooler is independently certified by the Cooling Technology Institute (CTI). This certification guarantees that the unit will meet the rated capacities eliminating the necessity for costly field performance tests.



Exclusive Five (5) Year Motor & Drive Warranty

Evapco provides each unit with a 5 year motor and drive warranty which covers the fan(s), bearings, pulleys, shafts, belts, gear reducer(s), drive shaft(s), drive couplings, electric fan motor(s) and mechanical equipment supports on both belt and gear drive units.



International Building Code (IBC) Compliant Designs

In its continuing commitment to be the leader in evaporative cooling equipment design and services, EVAPCO has Independently Certified its units to withstand Seismic and Wind Loads in ALL Geographic Locations and Installations in accordance with IBC 2006.



Easy Maintenance Basin Designs

EVAPCO has designed their HVAC products with future maintenance in mind. The Cold Water Basin is the most important area of the product to maintain. Dirt and Debris collect in the basin and must be cleaned out regularly. EVAPCO has designed their Cold Water Basins to allow for quick and easy access. Some of our features are described below.

Easy Access

The cold water basin section on Induced Draft Units is easily accessible from ground level by simply loosening the (2) two Quick Release Fasteners on the inlet louver assemblies surrounding the cooling tower and lifting out the lightweight louver.

The basin can be accessed from all (4) four sides of the unit.

This open basin design enables the unit to be easily cleaned.



Louver Access Door

To aid in basin maintenance, many Induced Draft models can be equipped with an optional louver access door. This feature allows easy access to perform routine maintenance and inspection of the makeup assembly, strainer screen and basin without removing an entire inlet louver.

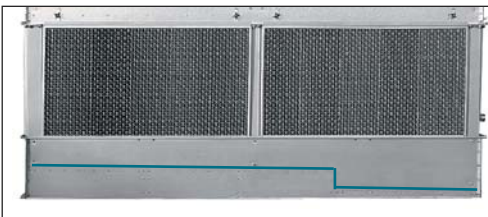
This feature is standard on models with 5' and taller louver sizes.



Clean Pan Design

EVAPCO units feature a completely sloped basin from the upper to lower pan section. This "Clean Pan" design allows the water to be completely drained from the basin. The spray water will drain from the upper section to the depressed lower pan section where the dirt and debris can be easily flushed out through the drain. This design helps prevent buildup of sedimentary deposits, biological films and minimizes standing water.

Note: on 4' wide units, the pan is sloped without the step.



Stainless Steel Options

All Evapco cooling towers and closed circuit coolers are constructed of G235 Hot-Dip galvanized steel as standard. A variety of stainless steel construction upgrade options are available in both 304 and 316 stainless steel, including stainless steel cold water basins and complete stainless steel units.

Easy Maintenance Drive System

All Evapco cooling towers and closed circuit coolers come standard with premium efficient, inverter-ready fan motors that can be used with variable frequency drive (VFD) systems for precise capacity control.

The mechanical drive systems are easy to access and easy to maintain. Bearing lubrication and belt adjustment can be performed from outside the unit. All units with T.E.F.C. fan motors located outside of the unit are protected with a removable motor cover or fan screen.



T.E.A.O. motors located inside the fan casing are mounted on a swing-out motor mount on an adjustable base for easy removal.



Low Sound Solutions

Super Low Sound Fan (optional)

The Super Low Sound Fan offered by EVAPCO utilizes an extremely wide chord blade design available for sound sensitive applications where the lowest sound levels are desired. The fan is one-piece molded heavy duty FRP 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 compared to the original EVAPCO fan.



Forced Draft Sound Attenuation (optional)

The centrifugal fan design of Evapco's forced draft coolers and towers operates at lower sound levels which make these units preferable for installations where noise is a concern. For extremely noise sensitive applications, these centrifugal fan models may be supplied with various optional stages of intake and/or discharge attenuation packages, which greatly reduce sound levels even further.



EVAPCO PRODUCTS ARE MANUFACTURED WORLDWIDE.



-  World Headquarters/
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