Evaporative Condensers

Advanced Technology for the Future, Available Today

ATC Condensers

More Models - Increased Capacity

Motor and Drive Warranty

IARW - International Association of Refrigerated Warehouses
ARI - Institute of Refrigeration
EVAPCO offers a variety of evaporative condenser designs in

Each unit is a reflection of Evapco’s commitment to excellence in engineering and manufacturing. An emphasis on research and development has resulted in many condenser innovations.

All Evapco condensers have the following features as standard:
- Patented* Thermal-Pak® Coil resulting in the maximum thermal performance available per plan area.
- Heavy Gauge Hot Dip Galvanized Steel construction assuring long operating life.
- Totally Enclosed Fan and Pump Motors with minimum 1.15 service factor.

ATC Series
The ATC line of evaporative condensers represents Evapco’s commitment to product development. The line is comprised of 181 models ranging in size from 25 to 2,637 nominal ammonia tons.
The induced draft counterflow condensers are designed especially for easy maintenance and long, trouble-free operation.

ATC Design advantages include:
- Less Maintenance
- Lower Fan Horsepower
- Lower Sound Levels
- Greater Accessibility

PMCB Series
PMCB Models are forced draft, with axial flow fans and are available in capacities from 124 to 1,255 ammonia tons. The effective axial flow fans can reduce power requirements by up to 50% over centrifugal fan models of similar capacity.

PMCB Design advantages include:
- Less Chance of Recirculation
- Superior Warranty
- No Casing Leaks

LRC Series
LRC condensers are forced draft, centrifugal fan models designed specifically for applications requiring low height. Their compact, yet user-friendly design makes them ideal for smaller applications from 25 to 269 nominal ammonia tons.

LRC Design advantages include:
- Less Maintenance
- Lower Fan Horsepower
- Lower Sound Levels
- Greater Accessibility

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numerous sizes to accommodate almost any application.

- Stainless Steel Suction Strainers easily removed for periodic cleaning.
- Proven Performance, Industrial Design and Quality Construction for years of Dependable Service.
- Evapco’s Commitment to 100% Customer Satisfaction.

LSCB Series
LSCB centrifugal fan forced draft condensers are recommended for a wide range of applications. LSCB models are very quiet and ideal for applications where noise is a concern. In addition, sound attenuation packages are available to further reduce the sound levels. The centrifugal fans can also operate against the static pressure loss of ductwork and are suitable for indoor installations, or those with inlet or outlet ductwork. These condensers are available in capacities of 26 through 1,142 ammonia tons.

UBC Series
UBC models are available in the sizes from 128 to 2,287 nominal ammonia tons. They have the same design advantages of the ATC Series, and have been independently certified to withstand seismic forces of 1.0 g horizontal, 0.5 g vertical, and 0.3 g horizontal/orthogonal. In addition, the design is certified for wind loading of 125 pounds per square foot. UBC models should be considered for every “critical use” application where there is the potential for a seismic or high windload event.
Since its founding in 1976, EVAPCO, Inc. has become a world-wide leader in supplying quality equipment to the Industrial Refrigeration industry.

EVAPCO’s success has been the result of a continual commitment to product improvement, quality workmanship and a dedication to providing unparalleled service.

An emphasis on research and development has lead to many product innovations – a hallmark of EVAPCO through the years.

The ongoing R & D Program enables EVAPCO to provide the most advanced products in the industry – technology for the future, available today.

With 13 facilities in 7 countries and over 160 sales offices in 42 countries world-wide, EVAPCO is ready to assist in all your refrigeration needs.

Patented Thermal-Pak® Coil

EVAPCO’s patented Thermal-Pak® condensing coils feature a design which assures maximum condensing capacity. The airflow thru the coil is counterflow to the refrigerant flow, providing the most efficient heat transfer. This special coil design is utilized to reduce the air pressure drop through the unit while maximizing tube surface area and increasing its heat transfer capabilities. The uniquely shaped tubes of the coil are staggered in the direction of air flow to obtain a high film coefficient. In addition, all tubes are pitched in the direction of refrigerant flow to give good drainage of liquid refrigerant.

The coils are manufactured from high quality steel tubing following the most stringent quality control procedures. Each circuit is inspected to assure the material quality and then tested before being assemble into a coil. Finally, the assembled coil is tested at 400 P.S.I.G. air pressure under water to make sure it is leak free.

To protect the coil against corrosion, it is placed in a heavy-duty steel frame and the entire assembly is dipped in molten zinc (hot dip galvanized) at a temperature of approximately 800°F.
EVAPCO Corrosion Protection System: The Standard for Evaporative Condensers

EVAPCO, long known for using premium materials of construction, has developed the ultimate system for corrosion protection in galvanized steel construction – the EVAPCOAT Corrosion Protection System. Marrying corrosion free materials with heavy gauge mill hot-dip galvanized steel construction to provide the longest life product with the best value.

G-235 Mill Hot-Dip Galvanized Steel Construction
Mill hot-dip galvanized steel has been successfully used for over 25 years for the protection of evaporative condensers against corrosion. There are various grades of mill galvanized steel each with differing amounts of zinc protection. EVAPCO has been a leader in the industry in developing heavier galvanizing, and was the first to standardize on G-235 mill hot-dip galvanized steel.

G-235 designation means there is a minimum of 2.35 ounces of zinc per square foot of surface area as measured in a triple spot test. G-235 is the heaviest level of galvanizing available for manufacturing evaporative condensers and has a minimum of 12% more zinc protection than competitive designs using G-210 steel.

During fabrication, all panel edges are coated with a 95% pure zinc-rich compound for extended corrosion resistance.

Type 304 Stainless Steel Strainers
Subjected to excessive wear and corrosion, the sump strainer is critical to the successful operation of the condenser. EVAPCO uses only stainless steel for this very important component.

PVC Air Inlet Louvers
The innovative design uses corrosion free materials while effectively eliminating splash out and reducing the potential for algae formation inside the condenser.

PVC Drift Eliminators
The final elements in the upper part of the condenser are moisture eliminators which strip the entrained water droplets from the leaving air stream.

EVAPCO eliminators are constructed entirely of inert, corrosion-free PVC. This PVC material has been specially treated to resist damaging ultraviolet light. The eliminators are assembled in easily handled sections to facilitate removal thereby exposing the upper portion of the unit and water distribution system for periodic inspection.

PVC Water Distribution System
Another important part of an evaporative condenser is the water distribution system. In order to give the maximum heat transfer and minimize scaling, the coil must be drenched with water at all times. The EVAPCO system does this by circulating approximately 6 gallons of water per minute over every square foot of coil surface area.

The water distribution system is greatly simplified in EVAPCO units, with the largest non-clog water diffusers available for evaporative condensers. The diffusers are threaded into the water distribution header to ensure correct positioning. Also, a collar on the diffuser extends into the header and acts as an anti-sludge ring to reduce the need for maintenance. Excellent flooding of the coil is maintained at all times without orifice nozzles.

For corrosion protection the diffusers are made of ABS plastic and distributor pipes are non-corrosive Polyvinyl Chloride (PVC).

Totally Enclosed Motors
EVAPCO uses totally enclosed motors for all fan and pump motors as standard. These superior motors help to assure longer equipment life without motor failures, which result in costly downtime.

Alternate Materials of Construction
For particularly corrosive environments, EVAPCO condensers are available with Type 304 Stainless Steel construction for basins and/or casings. Contact the factory for details on available options.
The ATC and UBC line of evaporative condensers reflects EVAPCO’s commitment to product development. Their advanced design provides owners with many operational and performance advantages. These induced draft, counterflow condensers are designed for easy maintenance and long, trouble-free operation.

**Efficient Drift Eliminators**
- Advanced design removes mist from leaving airstream.
- Corrosion resistant PVC for long life.

**PVC Spray Distribution Header with ABS Nozzles**
- Nozzles are threaded to assure proper orientation.
- “Anti-Sludge Ring” reduces maintenance.
- Large orifice nozzles prevent clogging.
- Threaded end caps for ease of cleaning.

**Totally Enclosed Pump Motors**
- Help assure long, trouble-free operation.

**Patented Thermal-Pak® Coil Design**
- Assures greater operating efficiency.
- Elliptical tube design allows for greater surface area per plan area.
- Lower resistance to airflow permits greater water loading.

**Stainless Steel Strainers**
- Resists corrosion better than other materials.
**Unique Fan Drive System**
- Power-Band Belts for Better Lateral Rigidity.
- Advanced Design Aluminum Fan Blades.
- Non-corroding Cast Aluminum Sheaves.
- Heavy-Duty Fan Shaft Bearings with L-10 life of 75,000 - 135,000 hrs.
- All Other Components Corrosion Resistant Materials.
- All Components Covered by 5 Year Warranty.

**Quick Release Inlet Louvers**
- Easily removable for access.
- Designed to keep sunlight out—preventing biological growth.
- Keeps dirt and debris out of unit.

**Totally Enclosed Fan Motors**
- Assures long life.
- Covered by 5 Year Warranty.

**Easy to Service Motor Mount Design**
- All normal maintenance can be performed quickly from outside the unit.
- No tools required for belt adjustment.
- Extended lube lines for easy bearing lubrication.
- If required, motor may be easily removed.

**Double-Brake Flange Joints**
- Stronger than single-brake designs by others.
- Minimizes water leaks at field joints.
- Greater structural integrity.

**Most Accessible Basin**
- Access from all four sides.
- Large open area simplifies maintenance.
- Basin may be inspected with pumps running.

**G-235 Heavy Mill-Dip Galvanized Steel Construction**
(Stainless steel available as affordable option)
Induced Draft Fan Drive Systems

**Direct Drive Units - 4’ Wide Models**
ATC-50B to ATC-165B
The smaller size units are equipped with a direct drive fan system. The aluminum alloy fan is mounted on a totally enclosed motor for the ultimate in simplicity with the fewest moving parts.

**Belt Drive Units - 8-1/2’ & 17’ Wide Models**
ATC-187B to ATC-926B
UBC-180 to UBC-535
The fan motor and drive assembly on these units is designed to allow easy servicing of the motor and adjustment of the belt tension from the exterior of the unit. A T.E.F.C. fan motor is mounted on the outside of these models. A protective cover swings away to allow servicing and belt adjustment.

**Belt Drive Units - 12’ & 24’ Wide Models**
ATC-503B to ATC-3714B
UBC-420 to UBC-3225
The fan motor and drive assembly is designed to allow easy servicing of the motor and adjustment of the belt tension from the exterior of the unit. The T.E.A.O. fan motor is located inside the fan casing on a rugged heavy duty motor base. The innovative motor base also features a unique locking mechanism for a positive adjustment.

**Power-Band Drive Belt:** The Power-Band is a solid-back, multigroove belt system that has high lateral rigidity. The proven drive system is used on 8-1/2’ wide and wider models. The belt is constructed of neoprene with polyester cords. The drive belt is designed for 150 percent of the motor nameplate horsepower for long life and durability.

**Fan Shaft Bearings:** The fan shaft bearings in ATC and UBC units are specially selected for long, trouble-free life. They are rated for an L-10 life of 75,000 to 135,000 hours and are the heaviest pillow block bearing available.

**Aluminum Alloy Sheaves:** Fan sheaves are constructed of corrosion free aluminum for long life. The aluminum also helps belts last longer.

**Five Year Drive Warranty:** All drive components on ATC and UBC units are covered by Evapco’s exclusive 5 year drive warranty - including fan motors and belts!
Induced Draft Design Features

**Efficient Drift Eliminators**
An extremely efficient drift eliminator system is standard on EVAPCO condensers. 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 condensers save valuable water and water treatment chemicals. The condenser can be located in areas where minimum water carryover is critical, such as parking lots. 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.

**Superior Air Inlet Louver and Screen Design**
The air inlet louver screens on the EVAPCO condensers are constructed of corrosion-free PVC. They are a two pass design that minimizes splashout and reduces the potential for algae formation inside the condenser.
In single pass louver systems used by other manufacturers, circulating water droplets tend to splashout, especially when the fans are shut off. With the two pass louver system, the water droplets are captured on the inward sloping pass, minimizing splashout problems.

**Clean Pan Basin Design**
EVAPCO condensers 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 condenser 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.

**Stainless Steel Basin**
EVAPCO condensers have a modular design which allows specific areas to be enhanced for increased corrosion protection. The basin area of the condenser experiences turbulent mixing of air and water, in addition to silt build-up. In conjunction with the EVAPCOAT Corrosion Protection System, EVAPCO offers an optional Stainless Steel Basin. This option provides Type 304 or Type 316 stainless steel for the entire basin area including the support columns of the condenser and the louver frames.
The basin section provides the structural support for the unit and is the most important part of the condenser. The Stainless Steel Basin provides maximum corrosion protection.
Forced Draft Axial Fan Design Features – PMCB Models

Energy Efficient for Lowest Operating Cost

Cut Operating Horsepower up to 50%

The Power-Mizer models use effective axial flow fans which can reduce power requirements by up to 50%. This results in significant energy savings.

Vane Axial Fan Assembly

The PMCB models utilize two stage, vane axial fans for highly efficient operation. The fans are installed in a closely fitted cowl with a venturi inlet and advanced design guide vanes between stages, which help direct the flow and increase efficiency.

Cast Aluminum Alloy Fans

The fans are heavy-duty cast aluminum alloy that are virtually corrosion free.

Two Stage Fan
**PMCB Fan Motor Mount**

Evapco’s tandem TEFC motor mount assembly allows for two fans to be operated with one motor for simplicity. Routine maintenance is easily performed. If redundancy is a concern, individual fan motor drives are available as an option on PMCB models.

![Tandem Fan Drive Motor Mount](image)

**Accessibility**

The fan section is completely open and accessible at waist level where each part may be carefully checked by simply removing the safety screens. Bearing grease fittings are extended to the outside of the unit for ease of lubrication. The basin is also open and easy to access for inspection or cleaning. There is a depressed sump area to catch the dirt accumulated and it may be easily flushed out with a hose through the access door on either end.

![Vane-Axial Fan](image)

**Internal Baffles**

As a standard feature, all Evapco condensers with multiple motors are provided with an internal baffle system which extends from the pan bottom vertically through the coil bundle. This allows the user to cycle fan motors independently to match system load without the harmful effects of air by-pass.

![Internal Baffles](image)

**Power-Band Drive**

The Power-Band drive is a solid backed belt system that has high lateral rigidity. This eliminates the problem of mismatched belts and prevents belts from jumping sheaves, a common problem with other designs.

![Power-Band](image)
Indoor Installation

Centrifugal units may be installed indoors where it is desirable to hide the unit or when this is the only space available. In addition to being quiet, they can handle the external static pressure of ductwork.

The units are designed to be easily connected to ductwork. Drawings are available from the factory which illustrate how to make these ductwork connections.

Centrifugal Fan Assembly

Fans on LRC & LSCB condensers are of the forward curved centrifugal design with hot-dip galvanized steel construction. All fans are statically and dynamically balanced and are mounted in a hot-dip galvanized steel housing.

Very Quiet Operation

Centrifugal fan units operate at lower sound levels which make this design preferred for installations where noise is a concern. The sound they produce is primarily at high frequencies which is easily attenuated by building walls, windows, and natural barriers. Additionally, since the sound from the fans is directional, single sided air entry models can be turned away from critical areas avoiding a sound problem. When even quieter operation is necessary, centrifugal fan models can be equipped with optional sound attenuation packages. Consult the factory for details.

In addition, the LRC features a specially engineered fan enclosure and drive system that are designed to offer very quiet operation without the high cost of external attenuation packages. The new EVAPCO fan system was developed through hundreds of hour of laboratory tests resulting in the lowest standardized sound levels available in the industry. In fact, the sound level of the LRC on average is 2 dBA quieter than competitor’s similar models.

Application Versatility

Centrifugal units are recommended for a wide range of installations. They are quiet, can easily be hidden, and the increase in the fan motor H.P. over propeller fan units is generally not significant in the small size range. They are also excellent for larger installations where very quiet operation is a must, such as residential neighborhoods.
Reduced Height and Maintenance Accessibility

The LRC has been designed to satisfy installation requirements where height limits must be observed. The lower profile design of the LRC does not, however, sacrifice maintenance accessibility for reduced height. Its unique casing design allows the water distribution system, cold water basin, fan section and other unit components to be easily maintained. Small, light weight sections of the drift eliminators can be easily removed to access the water distribution system. Large circular access doors are located on both sides of the cold water basin to allow adjustment of the float assembly, removal of the stainless steel strainers and cleaning of the basin. The fan motor and drive system are located at one end of the unit and are completely accessible by removing the inlet screens. Although, routine maintenance can be performed from the exterior of the unit without removing the inlet screens.

Low Installed Costs

The compact, unitary design of the LRC evaporative condensers allows them to be shipped completely assembled. This results in lower transportation costs and no assembly requirements at the job site. Note: Options such as sound attenuation and discharge hoods will require additional lifts and some minor assembly.

Transport of a Pre-Assembled Unit

The LRC ships fully assembled. This means lower transport costs and no further expenses at the job site for assembly. LRC condensers are ideal for truck-mounted applications for remote sites or temporary installations.
Optional Equipment for Evaporative Condensers

All Models

Two Speed Motors
Two speed fan motors can provide an excellent means of capacity control. In periods of lightened loads or reduced wet bulb temperatures, the fans can operate at low speed, which will provide about 60% of full speed capacity, yet consume only about 15% of the power compared with high speed. In addition to the energy savings, the sound levels of the units will be greatly reduced at low speed.

Remote Sump Configuration
For units operating in areas where temperatures may be very low, or where low temperatures may occur during periods when the unit is not operating, a sump located inside the building is the preferred means of ensuring that the basin water will not freeze. For these applications, the condenser will be supplied without the spray pump, suction strainers and all associated piping, but with an oversize bottom outlet.

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.

Water Level Indicator
Condensers may be supplied with a water level indicator to provide a visual indication of basin water level without opening access doors or air inlet louvers. The level indicator can be furnished with an optional low and high level alarm switches or a transmitter for continuous level monitoring.

Multiple Circuit Coils
Condensers may be supplied with multiple circuit coils to match various system requirements such as split systems, or if a glycol or water circuit is desired for compressor head cooling.

Extended Surface Coil
Condensers can be provided with spiral fins on the heat exchanger coil to increase the dry performance of the unit. Dry performance is accomplished by rejecting heat to the atmosphere without the use of the spray pump and the evaporation process. Dry operation can be practical in cold climates and/or when reduced winter loads exist. The number of fins per inch and the quantity of rows finned can be varied to obtain different dry performances. Dry operation often requires the next larger size fan motor. Consult the factory for sizing.

ASME Coils
Evaporative condensers can be furnished with condensing coils manufactured in accordance with the ASME Pressure Vessel Code Section VIII, Division I. Coils built with this option will bear a U-stamp indicating their compliance with the ASME code.

Basin Heater Package
If a remote sump configuration is not practical, electric basin heater packages are available to help prevent freeze-up of the basin water. The packages include electric heater elements, and a combination thermostat/low water cutoff.
Self Supporting Catwalk and Handrailing
Evapco condensers are available with self-supporting catwalk, which may be easily installed in the field. This option offers significant savings compared to field constructed catwalks, which must be supported by a structure external to the unit. The catwalk may be installed on either side, or the end opposite the connections. Perimeter handrail is available for PMCB and LSCB models, but is not required for ATC or UBC models. Ladders are provided with the catwalk option.

Access Ladders
Access ladders are available to provide access for motor, drive, and water distribution system inspection and maintenance.

Stainless Steel Basin
ATC and UBC condensers are available with an inexpensive all stainless steel basin section. This provides superior corrosion resistance over other materials of construction.

PMCB Models
Wide Blade Fans
Wide blade fans are available for PMCB forced draft units. The cast aluminum fans operate at lower tip speeds to significantly reduce sound levels.

LRC & LSCB Models
Capacity Control Dampers & Pony Motors
In addition to two speed fan motors, variable frequency drives, (VFD’s), or cycling fan motors on multiple motor units, centrifugal fan condensers have two other types of capacity control options available to them; Pony motors, and capacity control fan dampers. Pony motors utilize a smaller fan motor in conjunction with the primary motor for use in times of reduced loading. This pony motor is typically 1/4 the hp of the primary motor, and can significantly reduce energy requirements.

Capacity control fan dampers are located directly in the fan housings. They control head pressure by modulating the air flow through the unit to match the capacity of the condenser to the system load.

Sound Attenuation Package
For extremely noise-sensitive applications, centrifugal fan models may be supplied with intake and/or discharge attenuation packages which greatly reduce sound levels. Oversize fan motors are required for this option in order to overcome the additional static pressure.

Solid Bottom Panels
When centrifugal fan models are installed indoors and intake air is ducted to them, solid bottom panels are required to completely enclose the fan section. With this option, fan screens are omitted, and bearing lubrication lines are extended to facilitate maintenance.

Jib Boom
In the event that a fan motor should need to be replaced, a jib boom is available from which a chain fall can be mounted to easily lower the motor to the ground.
EVAPCO products are manufactured worldwide.

EVAPCO…Taking Quality and Service to a Higher Level!

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