



COOLING TOWERS



AT ATLAS



† Mark owned by the Cooling Technology Institute

MODULAR ADVANCED TECHNOLOGY (AT) SERIES
Large, Energy Efficient, Modular, Counterflow Cooling Towers

ABOUT EVAPCO



EVAPCO for LIFE

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

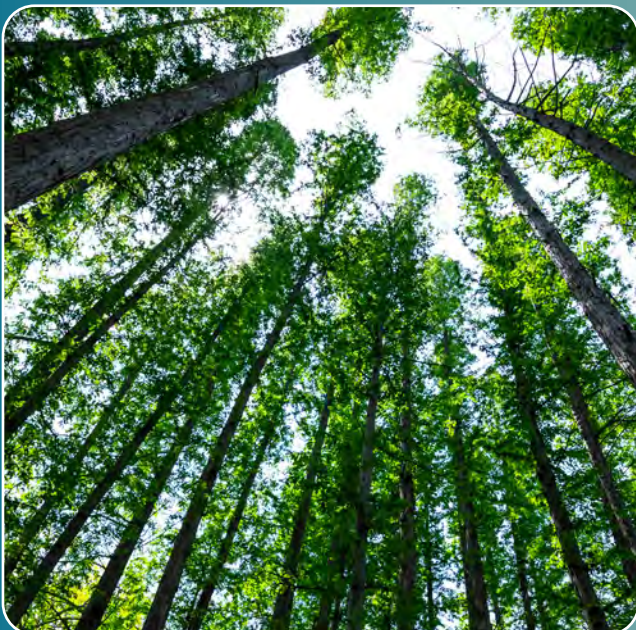
OUR COMMITMENT

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 78 active patents worldwide. We also guarantee performance and put every solution through rigorous research and testing to ensure maximum efficiency and reliability.

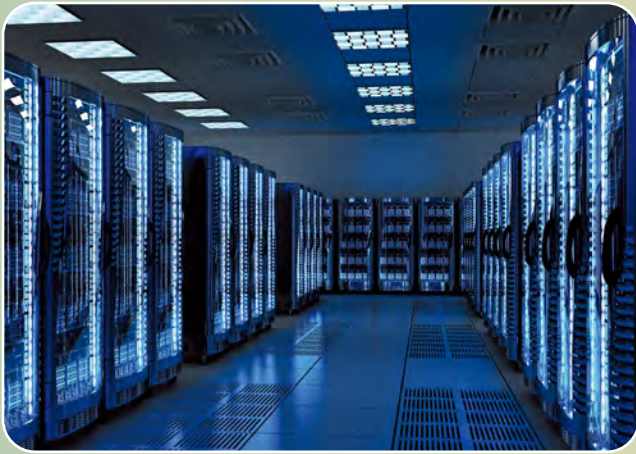


PROTECTING THE ENVIRONMENT

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 manufactured in US are constructed of panels that contain up to 67% of recycled content and our galvanized units contain over 79%. 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.



ATLAS APPLICATIONS



DATA CENTERS



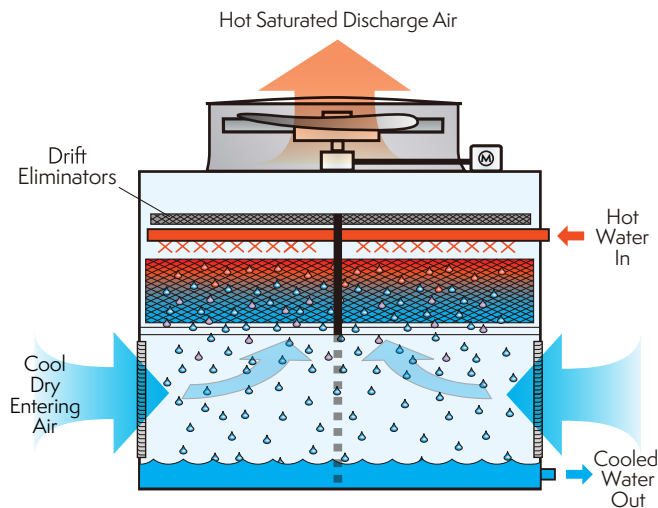
INDUSTRIAL PROCESS



CENTRAL PLANTS

To ensure 100% **reliability** for the high demands of critical cooling applications, the Atlas is highly engineered with quality components and manufactured to exacting standards. The **durable** materials of construction ensure the **longevity** expected of EVAPCO products. The cooling towers are designed in large modules for ease of installation and to reduce required field assembly labor. As the most energy efficient modular cooling tower on the market, the Atlas is unmatched in CTI Certified capacity per cell!

The AT Atlas



PRINCIPLE OF OPERATION

This cutaway graphic of the AT Atlas illustrates the basic functionality of our modular, induced draft, counterflow cooling tower. Hot water from the heat source is pumped to the water distribution system at the top of the tower. The water is distributed over the wet deck fill by means of our EvapJet™ nozzles. Simultaneously, air is drawn in through the air inlet louvers at the base of the tower on all four sides and travels upward through the wet deck fill opposite the water flow. The cooled water drains to the basin at the bottom of the tower and is returned to the heat source.

FACTORY ASSEMBLED LEAD TIMES

- The Atlas arrives to site preassembled in modules and installs in a fraction of the time of field erected solutions.
- Reduced overall piping and electrical connections compared to projects with traditional factory assembled cooling towers.
- Site installation supervision available from factory-trained technicians.

FIELD-ERECTED CAPABILITIES

Up to **60% more cooling capacity** per cell*



Up to **40% less fan power** per ton of cooling*

* When compared to other factory-assembled single cell towers.

ROBUST DESIGN & MATERIALS

Built with industrial-grade materials and engineered to withstand the demands of HVAC and industrial applications:

- Heavy-gauge steel structure, galvanized or stainless steel
- Energy-efficient PVC heat exchange fill media
- Standard motor outside airstream

CERTIFIED THERMAL PERFORMANCE



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HIGH-EFFICIENCY DRIFT ELIMINATORS



- EVAPCO's extremely efficient drift eliminator system removes entrained water droplets from the air stream, limiting the drift rate down to 0.0005% of the recirculating water rate.
- Constructed of inert PVC, which effectively eliminates corrosion of these vital components. They are assembled in sections to facilitate easy removal for inspection of the water distribution system.

EVAPAK® FILL

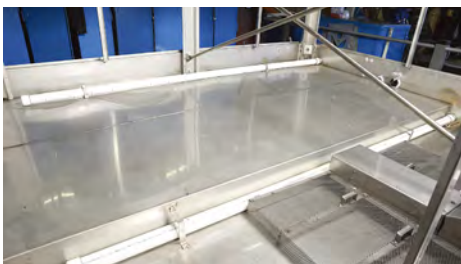
- EVAPAK® fill is specially designed to induce a highly turbulent mix of air and water for superior heat transfer. Special drainage tips allow high water loadings without excessive pressure drops.
- The bottom support of the fill section, combined with the unique way in which EVAPAK's cross-fluted sheets are bonded together, greatly enhances the fill's structural integrity, making it usable as a working platform for internal access to the fan and drive system.
- Low fouling fill available for alternate water qualities. Contact an EVAPCO representative for more information.

WATER & SIGHT TIGHT (WST) AIR INLET LOUVERS

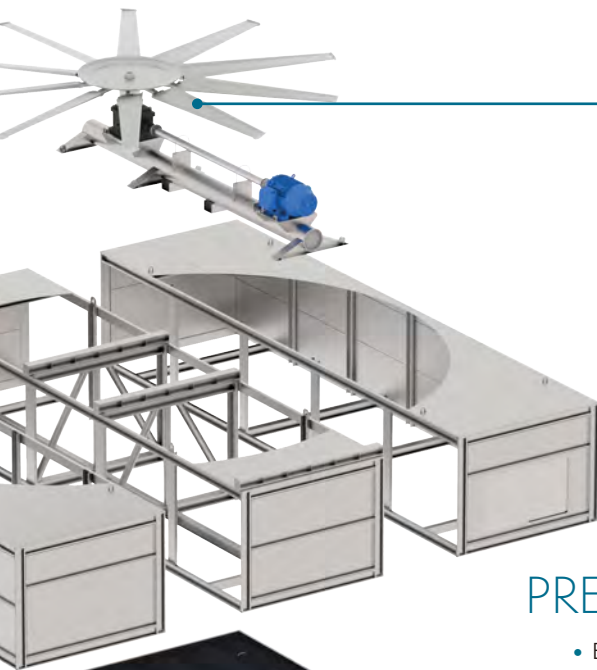
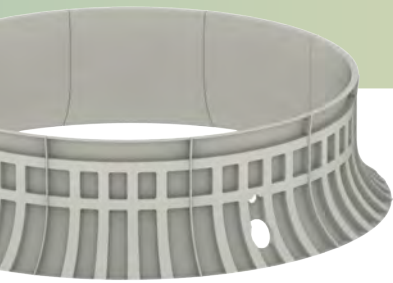
- Easily removable for access
- Framed in same material as tower basin
- Improved design to keep sunlight out—preventing biological growth
- Keeps water in while keeping dirt and debris out



CLEAN PAN SLOPED BASIN DESIGN



- Designed to completely drain the cold water basin
- Helps prevent buildup of sediment and biological film
- Eliminates standing water after draindown



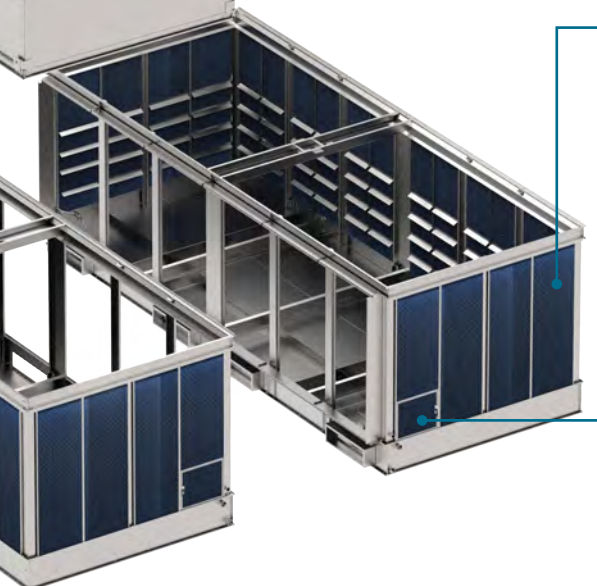
MECHANICAL EQUIPMENT

EVAPCO provides fans, gearboxes, driveshafts and motors from a select group of equipment suppliers specializing in cooling tower products. These relationships ensure a high quality product that can withstand the harsh cooling tower environment while also producing the airflow required for peak thermal performance.



PRESSURIZED WATER DISTRIBUTION SYSTEM

- Evapjet™ nozzles provide thermal performance gain
- Non-corrosive PVC construction
- Large orifice nozzles prevent clogging and are threaded for easy removal and positive positioning
- Each nozzle provides a large uniform spray pattern



ACCESS

- Removable louvers offer 360 degree basin access for easy inspection and maintenance

LOUVER ACCESS DOOR

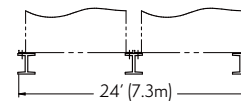
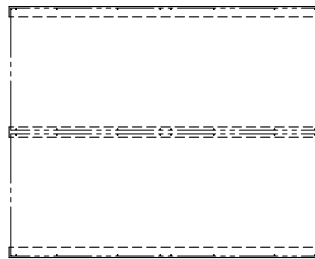
- Hinged access panel with quick release mechanism
- Allows easy access to perform routine maintenance and inspection of the makeup assembly, strainer screen and basin



Suggested I-Beam Arrangement

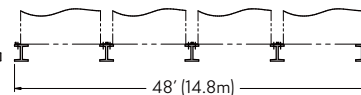
ONE CELL

24' x 30'
(7.3m x 9.2m)



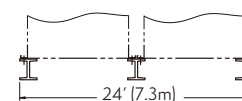
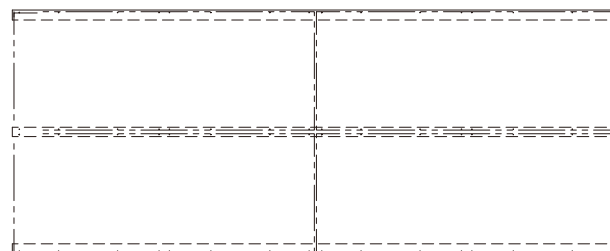
TWO CELL

48' x 30'
(14.8m x 9.2m)



TWO CELL

24' x 60'
(7.3m x 18.4m)



- NOTES:**
- (1) Beams should be sized in accordance with accepted structural practices. Maximum deflection of beam under unit to be 1/360 of the unit length, not to exceed 1/2" (13mm).
 - (2) Deflection may be calculated by using 55% of the operating weight as a uniform load on each beam. See certified print for operating weight.
 - (3) Support beams and anchor hardware are to be furnished by others. Anchor hardware to be ASTM A325 5/8" (16mm) bolt or equivalent.
 - (4) Beams must be located under the full length of the pan section.
 - (5) Support beams surface must be flush and level at top surface. Do not level the unit by placing shims between the unit mounting flange and the supporting beam.
 - (6) The factory recommended steel support configuration is shown. Consult the factory for alternate support configurations.
 - (7) Unit should be positioned on steel such that the anchoring hardware fully penetrates the beam's flange and clears the beam's web.
 - (8) For all multiple cell units, the operating weight of each cell is found by dividing total operating weight by the number of cells.
 - (9) The center beam should have a minimum width of 12" (305mm).
 - (10) Dimensions listed as follows: English ft-in. (Metric mm).



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