

EAW-DA

EAW-DD

# eco-Air™ Series

## DOUBLE STACK

Dry & Adiabatic Coolers



for LIFE



EAW-Models  
† Mark owned by the Cooling  
Technology Institute



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.



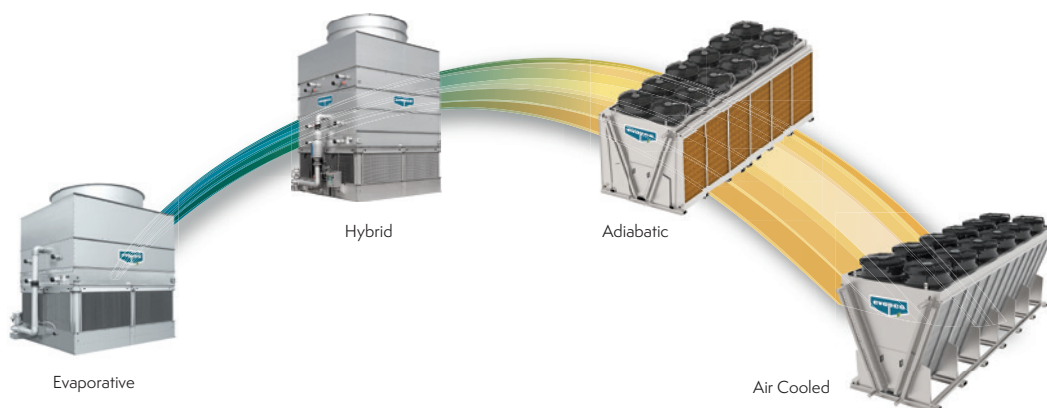
## SUSTAINABILITY FIRST

The eco-Air Double Stack is EVAPCO's latest addition to the eco-Air Series of Dry & Adiabatic coolers. The eco-Air Series of products is designed to address growing market concerns of sustainability, efficiency, and water conservation. In recent years, factors such as rising water costs, water shortages, and code changes have driven conscientious building owners and engineers to reduce water consumption on cooling applications across all industries.

Anticipating these changing market trends, EVAPCO has introduced various innovations over the years. Our team currently holds over 200 active patents around the world, with many beginning in our state-of-the-art Wilson E. Bradley Research and Development Center.

Key advancements in water and energy efficiency include the evaporative eco-ATWB hybrid coolers with finned coils and high dry-bulb switchover temperatures and the EVAPCO Water Saver™, a capacitive deionization system designed to increase water treatment cycles of concentration and significantly reduce water consumption.

EVAPCO introduced the eco-Air Series of Dry & Adiabatic coolers to maximize water efficiency. The eco-Air Double Stack cooler represents a continuing progression in our full spectrum of global heat transfer solutions, as well as a consistent commitment to the environment. Visit [evapco.com](http://evapco.com) to learn more about our Global Sustainability Directive and how it shapes our offerings.





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## CERTIFIED PERFORMANCE

EVAPCO's eco-Air Series of Single Stack & Double Stack dry coolers is now CTI certified for thermal performance per Standard 201. The Cooling Technology Institute (CTI) is an independent third-party organization who validates the thermal performance of evaporative and dry heat rejection equipment. CTI Standard 201 was expanded to include dry coolers in 2022. CTI certification provides credibility to EVAPCO's published thermal performance ratings, ensuring every customer has peace of mind when purchasing EVAPCO products.

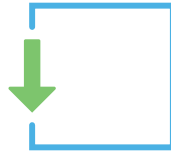


## BENEFITS

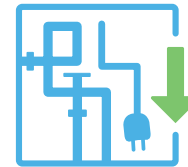
Any application requiring a large amount of heat rejection and a significant reduction in water usage can benefit from eco-Air Double Stack dry coolers. These applications will also gain the advantage of a simpler system set-up with a minimized amount of units, electrical connections, and piping.



**MAXIMIZE DRY  
OPERATION &  
WATER EFFICIENCY**



**REDUCE  
INSTALLED  
FOOTPRINT**



**REDUCE  
FIELD PIPING  
& WIRING**

When selected with EVAPCO's adiabatic pad pre-cooling system, elevated ambient dry bulb temperatures can be depressed to maintain low leaving fluid temperature set-points. Water utilized by the adiabatic pad pre-cooling system evaporates off the surface of the pad, keeping the finned coil bundles completely dry.

The eco-Air Double Stack coolers are taller and wider than the smaller single stack units, with significantly more dry coil surface area and higher airflow capability to maximize heat rejection for a given footprint.

## APPLICATIONS

The eco-Air Double Stack product line can be applied to a wide spectrum of applications, especially those with large cooling requirements, where reducing or eliminating water usage is critical.



**INDUSTRIAL  
PROCESSES**



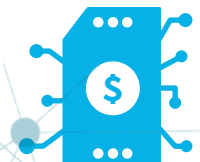
**DATA  
CENTERS**



**HVAC**



**POWER  
GENERATION**



**LIQUID  
IMMERSION  
COOLING**

EVAPCO's sales representatives and engineers have the tools to help you select the right product for your application.

To find out if the eco-Air Double Stack is the right solution for your project, please contact your local EVAPCO sales representative.



# eco-Air Series Double Stack Dry & Adiabatic Coolers

The eco-Air Series coolers are designed to address the market need for higher capacity dry coolers with a smaller installed footprint than options currently available in the market. The unit footprint, piping connections, and electrical connections can be halved by stacking one section on top of another to maximize surface area available for cooling, the footprint of a project can be effectively halved, therefore simplifying piping and electrical connections and improving access to optimize layout on large projects requiring multiple units.

EVAPCO's dry coolers and the dry performance of adiabatic coolers is now CTI certified per Standard 201, adding further credibility to EVAPCO's 100% thermal performance guarantee.

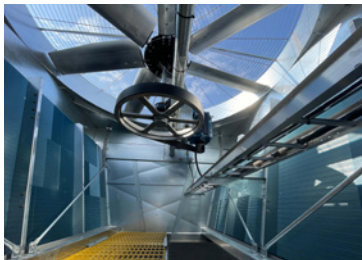
## Drive System Options

### AC

- IE3 single speed inverter duty motor compliant with (EC) No 640/2009
- Aluminum low sound fans as standard
- Belt drive
- Motors are factory wired to individual motor safety switches
- Speed control by others

### Electronically Commutated (EC)

- Highly efficient EC motors
- Integrated fan and motor assemblies
- Factory wired by EVAPCO to a PLC control panel
- Unit can control itself or accept external communication from BMS

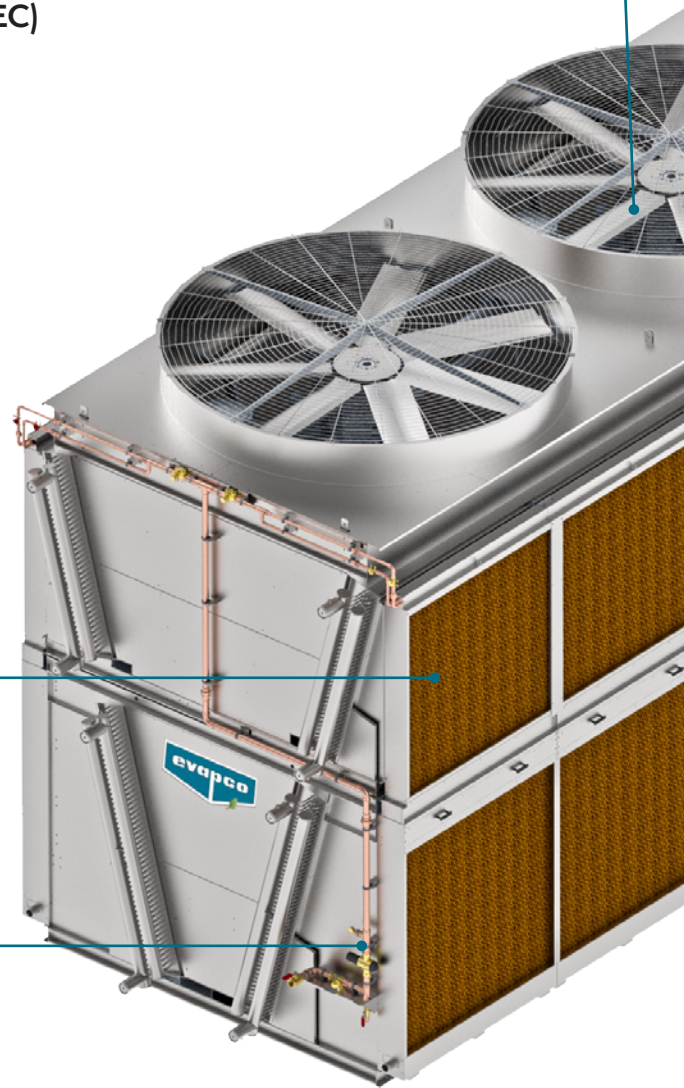


## Adiabatic Pre-cooling Media

- High efficiency adiabatic pre-cooling pads
- No water treatment required
- No drift
- No recirculation pump required

## Adiabatic Water Distribution System

- Copper distribution piping
- Two stage water system for increased water savings
- Pressure gauge
- Water pressure regulator
- Strainer
- Make up connection
- Drain valve



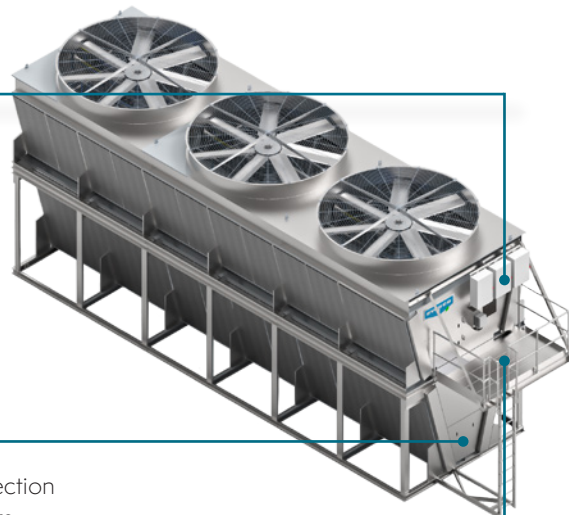
## No Plume

- All eco-Air units are 100% plume free



## Electrical Termination Enclosures

- Individual motor safety switches for AC motor units
- PLC panels for EC motor units
- Low voltage terminal box for solenoid valves and vibration switches



## Inspection Panel

- Easily removable for interior inspection and access to coils and fan motors

## External Service Platform with Ladder

- Optional feature can be added to any installation

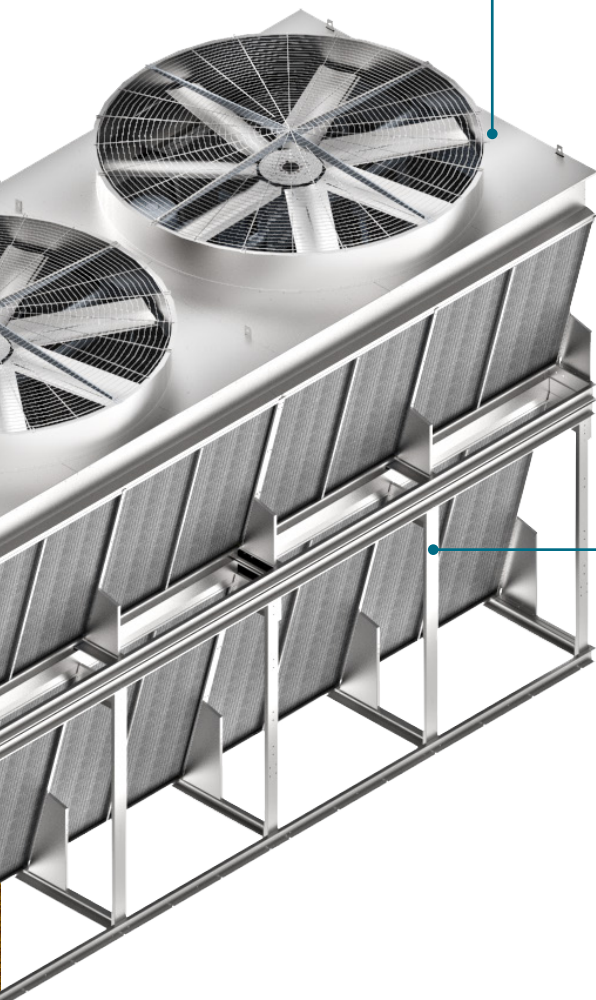
## Warranty

- 2 years for the complete unit (including drive system and heat exchanger coils)
- 2 years for the adiabatic pads (if equipped)
- 2 years for the electrical components



## Structure and Casing

- Standard Z-725 galvanized steel (725 g/m<sup>2</sup> of zinc)
- Type 304L stainless steel available for increased corrosion resistance and longevity



## Heat Exchanger Coils

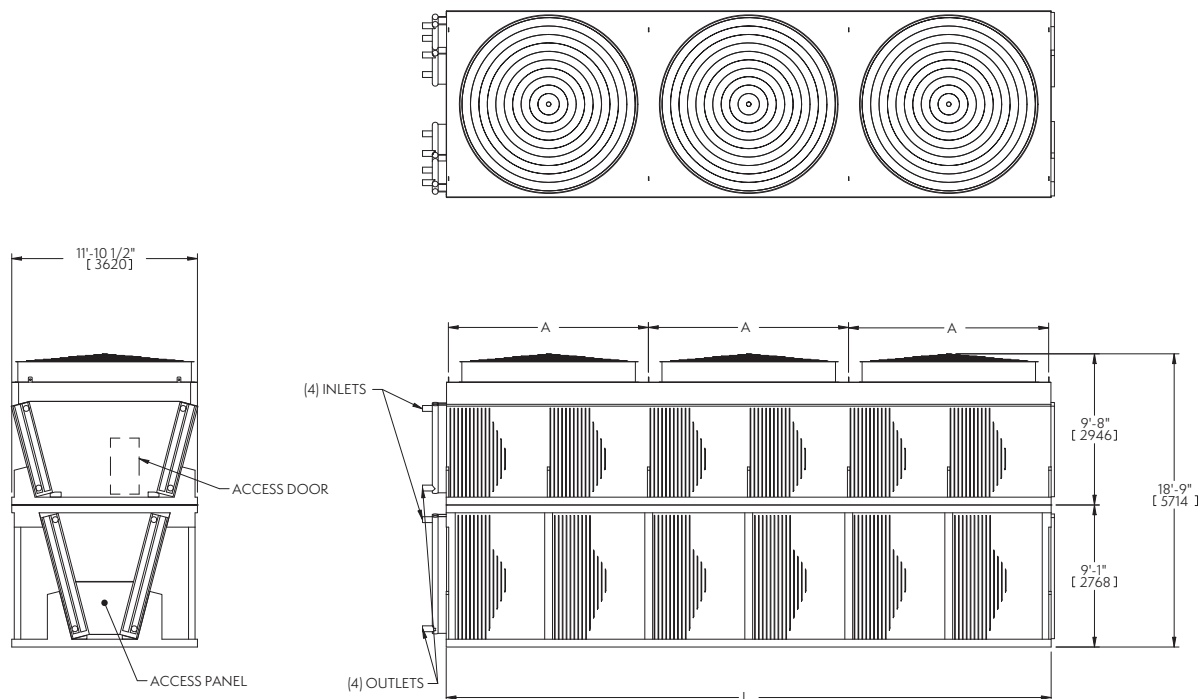
- Type 304L stainless steel coils
- Multiple fin spacings & circuiting configurations
- Heavy gauge aluminum fins
  - Optional upgrade to coated fins for increased corrosion resistance with no impact on unit performance



**eco-Air Series Dry Cooler**  
Thermal Performance is CTI  
certified per STD-201.

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# AC MOTOR UNITS



Model Number	# Fans	Nominal Capacity (kW)*	kW	Air Volume (m <sup>3</sup> /s)	Unit Length (mm)	Coil Volume (l)	Shipping Weight (kg)	Operating Weight (kg)	Heaviest Section (kg)
EAW-DD 33S1XL030T3	1	1490	30	87,3	4547	965	5130	6070	2840
EAW-DD 33S1XL037T3	1	1560	37	92,8	4547	965	5270	6210	2980
EAW-DD 33S1XL045T3	1	1620	45	99,3	4547	965	5310	6250	3010
EAW-DD 33S2XL030T3	2	2980	60	174,5	8452	1811	9440	11150	5290
EAW-DD 33S2XL037T3	2	3130	74	185,6	8452	1811	9730	11440	5580
EAW-DD 33S2XL045T3	2	3220	90	198,5	8452	1811	9800	11510	5640
EAW-DD33S3X-L030T3	3	4450	90	261,8	12352	2639	13560	16030	7660
EAW-DD 33S3XL037T3	3	4670	111	278,4	12352	2639	13980	16450	8080
EAW-DD 33S3XL045T3	3	4680	135	297,8	12352	2639	14090	16570	8190

**NOTES:** Adiabatic Width: 13' 6" (4115 mm)

A: Module length is 14' 11-2/5" (4557 mm)

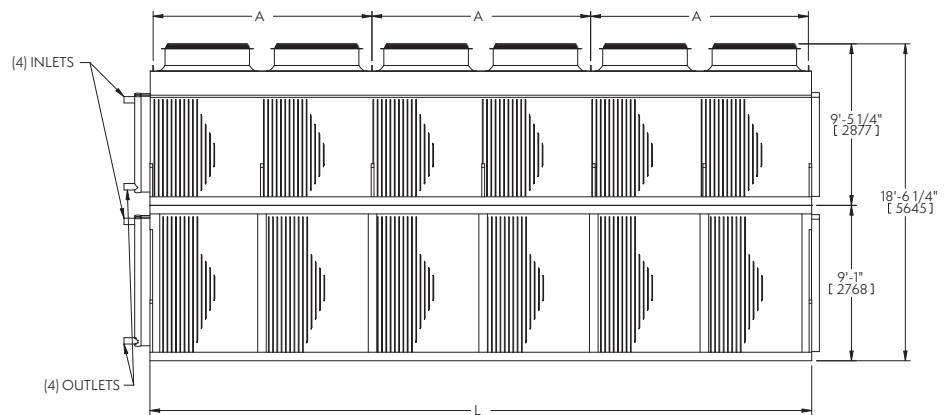
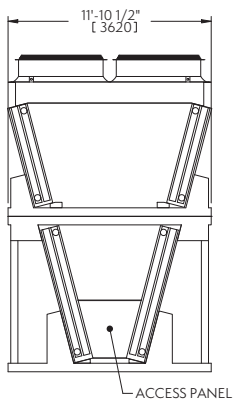
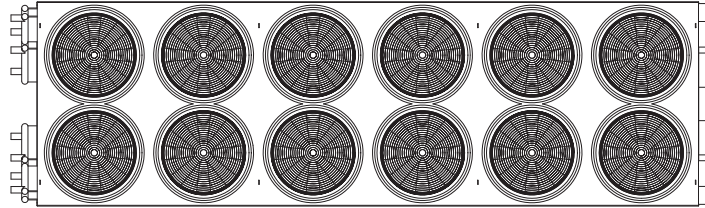
Dimensions are subject to change. Do not use for pre-fabrication.

\*Nominal capacity based on 40°C-35°C at 25°C entering air dry bulb temperature.

Adiabatic capacity: The adiabatic cooling effect and resulting depressed dry bulb entering the coil depends on the ambient dry bulb and associated relative humidity. Consult your sales representative, EVAPCO marketing, or Spectrum™ selection software for more information.



# EC MOTOR UNITS



Model Number	# Fans	Nominal Capacity (kW)*	kW	Air Volume (m <sup>3</sup> /s)	Unit Length (mm)	Coil Volume (l)	Shipping Weight (kg)	Operating Weight (kg)	Heaviest Section (kg)
EAW-DD 1504XL017G7	4	1730	69,2	108,5	4547	965	5350	6290	3050
EAW-DD 1508XL017G7	8	3450	138,4	216,9	8452	1811	9950	11660	5820
EAW-DD 1512XL017G7	12	5010	207,6	325,4	12352	2639	14410	16890	8510

**NOTES:** Adiabatic Width: 13' 6" (4115 mm)

A: Module length is 14' 11-2/5" (4557 mm)

Dimensions are subject to change. Do not use for pre-fabrication.

\*Nominal capacity based on 40°C-35°C at 25°C entering air dry bulb temperature.

Adiabatic capacity: The adiabatic cooling effect and resulting depressed dry bulb entering the coil depends on the ambient dry bulb and associated relative humidity. Consult your sales representative, EVAPCO marketing, or Spectrum™ selection software for more information.



# WORLDWIDE MANUFACTURING FACILITIES



- World Headquarters/  
Research and  
Development Center
- EVAPCO Manufacturing  
Facilities

## EVAPCO, Inc. — World Headquarters & Research / Development Center

P.O. Box 1300 • Westminster, MD 21158 USA  
410.756.2600 • [marketing@evapco.com](mailto:marketing@evapco.com) • [evapco.com](http://evapco.com)

### North America

- EVAPCO, Inc.**  
**World Headquarters**  
Westminster, MD USA  
410.756.2600  
[marketing@evapco.com](mailto:marketing@evapco.com)
- EVAPCO East**  
Taneytown, MD USA
- EVAPCO East**  
Key Building  
Taneytown, MD USA
- EVAPCO Midwest**  
Greenup, IL USA  
217.923.3431  
[evapcomw@evapcomw.com](mailto:evapcomw@evapcomw.com)
- Evapcold Manufacturing**  
Greenup, IL USA
- EVAPCO Newton**  
Newton, IL USA  
618.783.3433  
[evapcomw@evapcomw.com](mailto:evapcomw@evapcomw.com)
- EVAPCO West**  
Madera, CA USA  
559.673.2207  
[contact@evapcowest.com](mailto:contact@evapcowest.com)
- EVAPCO Alcoil, Inc.**  
York, PA USA  
717.347.7500  
[info@evapco-alcoil.com](mailto:info@evapco-alcoil.com)
- EVAPCO Iowa**  
Lake View, IA USA
- EVAPCO Iowa**  
Sales & Engineering  
Medford, MN USA  
507.446.8005  
[evapcomn@evapcomn.com](mailto:evapcomn@evapcomn.com)
- EVAPCO LMP ULC**  
Laval, Quebec, Canada  
450.629.9864  
[info@evapcolmp.ca](mailto:info@evapcolmp.ca)
- EVAPCO Select Technologies, Inc.**  
Belmont, MI USA  
844.785.9506  
[emarketing@evapcoselect.com](mailto:emarketing@evapcoselect.com)
- Refrigeration Vessels & Systems Corporation**  
Bryan, TX USA  
979.778.0095  
[rvs@rvscorp.com](mailto:rvs@rvscorp.com)
- Tower Components, Inc.**  
Ramseur, NC USA  
336.824.2102  
[mail@towercomponentsinc.com](mailto:mail@towercomponentsinc.com)
- EvapTech, Inc.**  
Edwardsville, KS USA  
913.322.5165  
[marketing@evaptecht.com](mailto:marketing@evaptecht.com)
- EVAPCO Dry Cooling, Inc.**  
Bridgewater, NJ USA  
908.379.2665  
[info@evapcodc.com](mailto:info@evapcodc.com)
- EVAPCO Dry Cooling, Inc.**  
Littleton, CO USA  
908.895.3236  
[info@evapcodc.com](mailto:info@evapcodc.com)
- EVAPCO Power México S. de R.L. de C.V.**  
Mexico City, Mexico  
(52) 55.8421.9260  
[info@evapcodc.com](mailto:info@evapcodc.com)

### Asia Pacific

- EVAPCO Asia Pacific Headquarters**  
Baoshan Industrial Zone Shanghai, P.R. China  
(86) 21.6687.7786  
[marketing@evapcochina.com](mailto:marketing@evapcochina.com)
- EVAPCO (Shanghai) Refrigeration Equipment Co., Ltd.**  
Baoshan Industrial Zone, Shanghai, P.R. China
- EVAPCO (Beijing) Refrigeration Equipment Co., Ltd.**  
Huairou District, Beijing, P.R. China  
(86) 10.6166.7238  
[marketing@evapcochina.com](mailto:marketing@evapcochina.com)
- EVAPCO Air Cooling Systems (Jiaxing) Company, Ltd.**  
Jiaxing, Zhejiang, P.R. China  
(86) 573.8311.9379  
[info@evapcochina.com](mailto:info@evapcochina.com)
- EVAPCO Australia (Pty.) Ltd.**  
Riverstone, NSW, Australia  
(61) 02.9627.3322  
[sales@evapco.com.au](mailto:sales@evapco.com.au)
- EvapTech (Shanghai) Cooling Tower Co., Ltd.**  
Baoshan District, Shanghai, P.R. China  
Tel: (86) 21.6478.0265
- EvapTech Asia Pacific Sdn. Bhd.**  
Puchong, Selangor, Malaysia  
(60) 3.8070.7255  
[marketing-ap@evaptecht.com](mailto:marketing-ap@evaptecht.com)

### Europe | Middle East | Africa

- EVAPCO Europe EMENA Headquarters**  
Tongerren, Belgium  
(32) 12.39.50.29  
[info@evapco.be](mailto:info@evapco.be)
- EVAPCO Europe BV**  
Tongerren, Belgium
- EVAPCO Europe, S.r.l.**  
Milan, Italy  
(39) 02.939.9041  
[evapcoeuropa@evapco.it](mailto:evapcoeuropa@evapco.it)
- EVAPCO Europe, S.r.l.**  
Sondrio, Italy
- EVAPCO Europe A/S**  
Aabybro, Denmark  
(45) 9824.4999  
[info@evapco.dk](mailto:info@evapco.dk)
- EVAPCO Europe GmbH**  
Meerbusch, Germany  
(49) 2159.69560  
[info@evapco.de](mailto:info@evapco.de)
- EVAPCO Middle East DMCC**  
Dubai, United Arab Emirates  
(971) 56.991.6584  
[info@evapco.ae](mailto:info@evapco.ae)
- Evap Egypt Engineering Industries Co.**  
A licensed manufacturer of EVAPCO, Inc.  
Nasr City, Cairo, Egypt  
(20) 10.054.32.198  
[evapco@tiba-group.com](mailto:evapco@tiba-group.com)
- EVAPCO S.A. (Pty.) Ltd.**  
A licensed manufacturer of EVAPCO, Inc.  
Isando, South Africa  
(27) 11.392.6630  
[evapco@evapco.co.za](mailto:evapco@evapco.co.za)

### South America

- EVAPCO Brasil**  
Equipamentos Industriais Ltda.  
Indaiatuba, São Paulo, Brazil  
(55) 11.5681.2000  
[vendas@evapco.com.br](mailto:vendas@evapco.com.br)
- FanTR Technology Resources**  
Itu, São Paulo, Brazil  
(55) 11.4025.1670  
[fantr@fantr.com](mailto:fantr@fantr.com)