CLOSED CIRCUIT COOLERS

eco-Air™ Series

environmentally
Conscious
Operation

Providing Maximum Water Savings



EAW-VS

EAW-VA

EAW-FD

evapco for LIFE

U.S. GREEN BUILDING COUNCIL MEMBER

IBC COMPLIANT DESIGNS

CTI CERTIFIED †

EAW-Models

† Mark owned by the Cooling Technology Institute





Get to Know EVAPCO

- The global innovator in heat transfer solutions
- Serving the commercial HVAC, Industrial Refrigeration, Power Generation, and Industrial Processing markets
- Founded in 1976
- Employee-owned
- 26 engineering & manufacturing facilities in 14 countries
- More than 200 sales offices worldwide

Learn More Now

Visit evapco.com to download product catalogs, view complete product specifications, and more.

EVAPCO is more than a name.

It's a pledge to make everyday life easier, more comfortable, more reliable, and more sustainable for people everywhere. How do we fulfill that promise? It's simple.

We never stop innovating.

At EVAPCO, we don't just talk about innovation, it's ingrained in our workflow. Guided by our annually developed R&D plans, 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 craft exceptionally built solutions.

As an employee-owned company, we take pride in our work. We are proud to be one of the most experienced teams of engineers and craftsmen in the industry. This translates into solutions that are always exceptionally built. EVAPCO has an unwavering commitment to provide "best in class" heat transfer solutions and services.

We guarantee performance.

Every EVAPCO solution is put through rigorous research and testing to ensure maximum efficiency and reliability. But we don't stop there. EVAPCO is an industry leader in independent, third-party performance certifications. These certifications guarantee our performance metrics—so that you can plan your projects with complete peace of mind.

We protect 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. EVAPCO's stainless steel units 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 continuously developing new technologies that deliver the ultimate operating advantages to our clients—while protecting the planet for every generation to come.



FULL SPECTRUM GLOBAL SOLUTIONS



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

Certified Performance



EVAPCO's eco-Air Series of 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.

The eco-Air Series completes our successful eco-family of closed circuit coolers and condensers with water-saving dry and hybrid technology.

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

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



EC Motor Option



AC Motor Option

EC & AC Motor Options Available on
Flat (EAW-FD), V Coil Dry (EAW-VD),
V Coil Adiabatic (EAW-VA) and V Coil Spray (EAW-VS) Models

eco-Air Series Design & Construction Features

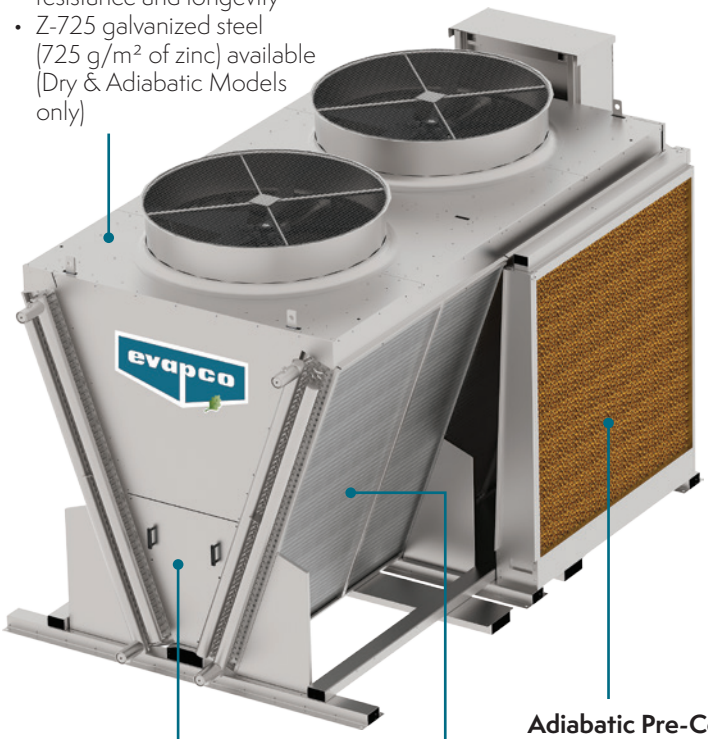
Available in fully dry, adiabatic and spray designs, the eco-Air Series maximizes heat rejection with minimal or no water use. The eco-Air Series is another chapter in EVAPCO's ongoing commitment to high quality, environmentally friendly products.

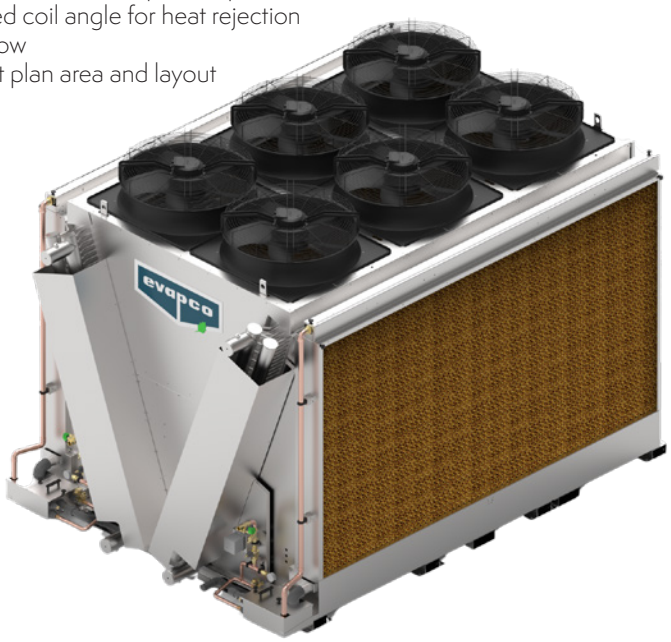
V Coil Models (EAW-VD, EAW-VA, EAW-VS)

Structure and Casing

- Type 304L Stainless Steel as standard for increased corrosion resistance and longevity
- Z-725 galvanized steel (725 g/m² of zinc) available (Dry & Adiabatic Models only)

- Maximum surface area per footprint
- Optimized coil angle for heat rejection and air flow
- Compact plan area and layout





Inspection Panel (V Coil Models)

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



Heat Exchanger Coils

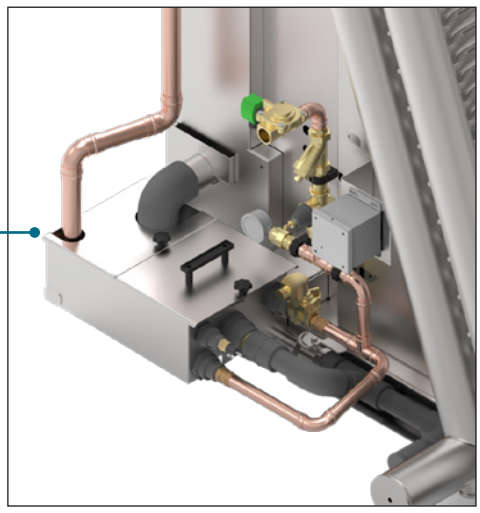
- Type 304L Stainless Steel tubes with aluminum fins
- Multiple fin spacings and tube configurations
- Upgraded fin thickness available
- Coated aluminum fins available for increased corrosion resistance with no impact on unit performance

Adiabatic Pre-Cooling System (Optional)

- Wetted pads can be utilized to pre-cool entering air, resulting in greater energy savings, and increased capacity, with minimal water use
- Great for high dry bulb climates and high temperature applications
- Once through design
- No water treatment required
- No cold water basin or pump
- No drift
- V coil models only

PuRe-JET™ Pumpless Recirculation System (Optional)

- Minimize water usage during adiabatic operation
- Pumpless design reduces complexity, maintenance, electrical cost, and operational failure risk compared to pumped recirculation systems
- Optional on certain adiabatic units



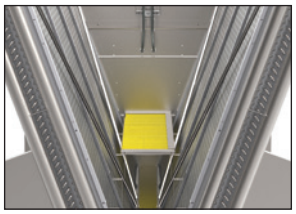
eco-Air Series Design & Construction Features



Coil Return Bend Covers

- Protects the coil return bends during handling and operation





Internal Step Deck (Optional-V Coil Models)

- Platform and grab rail for access to elevated fan section components (2.4 m wide V Coil Models only)

Spray Assist System (Optional)

- Peak load cooling solution
- Epoxy Coated Fins
- Tangential-flow hollow cone nozzles
- Self-draining copper piping

Epoxy Coated Fins

- Standard on Spray Models
- Optional on Dry & Adiabatic Models
- Increased corrosion resistance
- No impact on unit capacity

Advanced Motor Technology – Electronically Commutated EC or AC fan motor designs



EC

- High Efficiency
- Zero Maintenance
- Integral Speed Control
- Inherently Low Sound

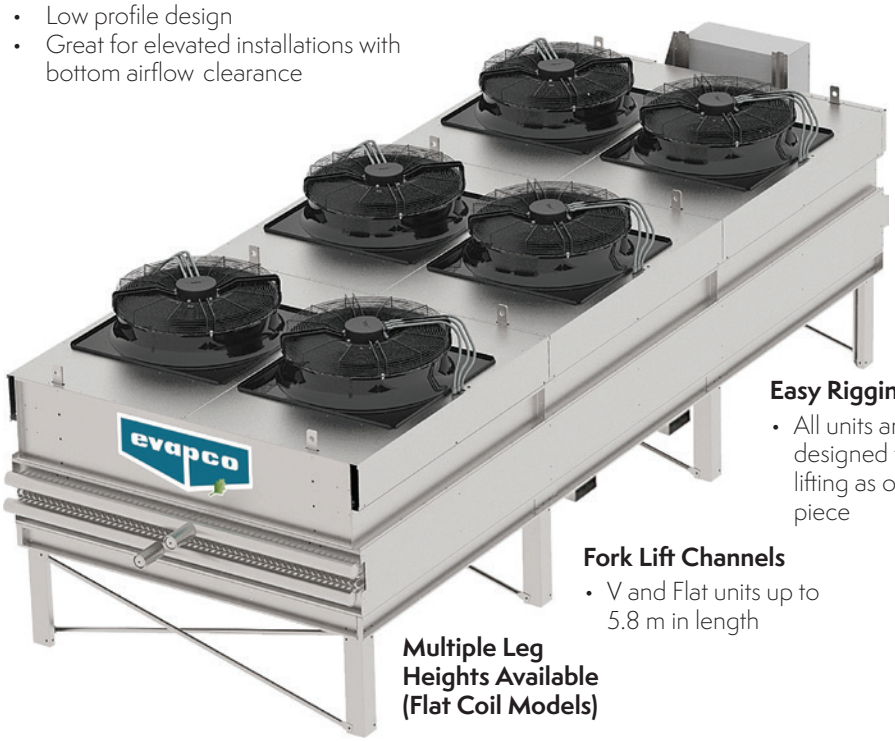


AC

- Premium efficient direct drive
- Zero maintenance permanently sealed bearings
- VFD ready
- Severe Duty

Flat Coil Models (EAW-FD)

- Low profile design
- Great for elevated installations with bottom airflow clearance



Easy Rigging
- All units are designed for lifting as once piece

Fork Lift Channels
- V and Flat units up to 5.8 m in length

Multiple Leg Heights Available (Flat Coil Models)

Common Terminal Box
- All motors factory wired
- Saves time in the field
- UL Recognized



Factory Mounted & Wired Controls
- EVAPCO PLC Panel (EC Motors)
- EVAPCO PLC/VFD Panel (AC Motors)
- Single point power connection



Coils Pressurized with Nitrogen
- Limits internal corrosion potential during transport and storage

IBC Compliant Design
- All standard models meet IBC requirements
- Upgraded designs available for high seismic and wind load areas
- Shake table verified for 1.5 Importance Factor installations

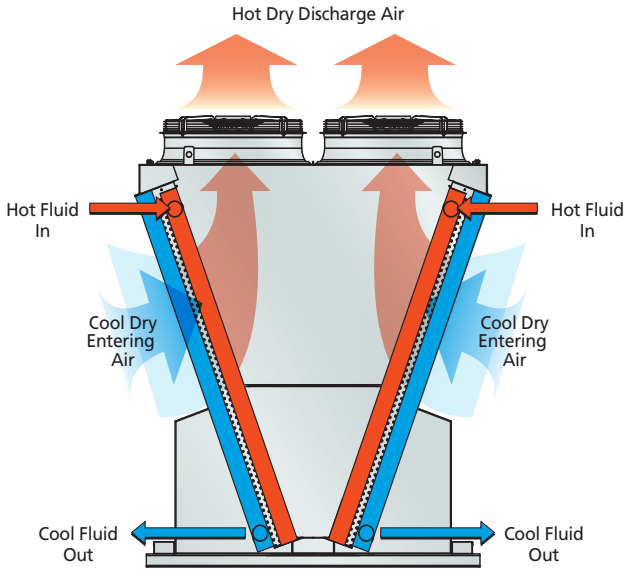
Warranty
- 2 years complete unit
- 2 years adiabatic pads (if equipped)
- 2 years spray system (if equipped)
- 1 year EVAPCO Controller and other electrical components (if equipped)

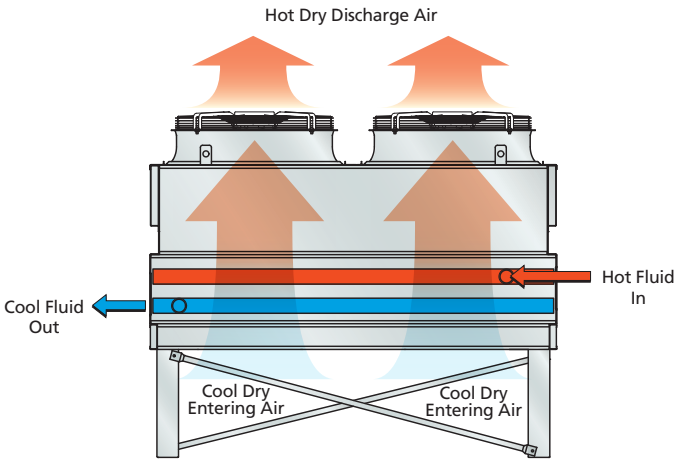
eco-Air Series Dry Cooler Thermal Performance is CTI certified per STD-201.

† Mark owned by the Cooling Technology Institute

eco-Air Series V Coil (EAW-VD) & Flat Coil (EAW-FD) Dry Cooler

Hot Process fluid enters the inlet header connection, shown in red. Heat from the fluid dissipates through the coil tubes surface and out to the fins. Ambient air is drawn in over the coil surface by the fan located at the top of the unit. Heat from the process fluid transfers to the air and discharges to the atmosphere. Cool process fluid exits the unit through the connections shown in blue.

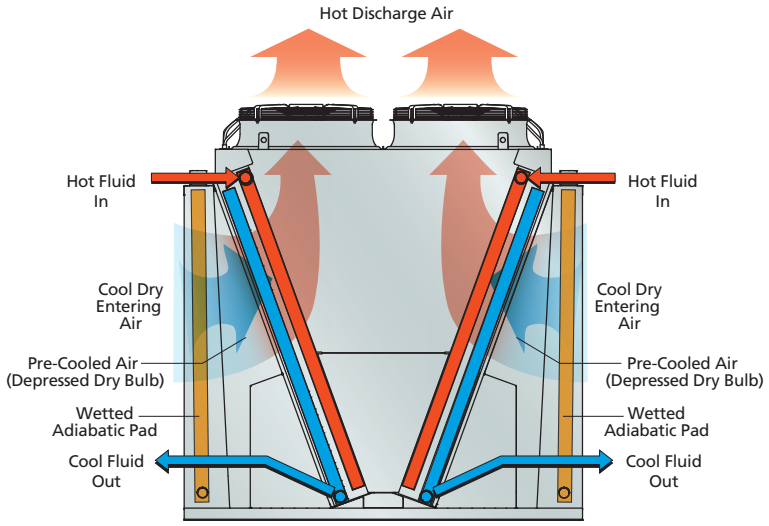




Adiabatic & Spray Principles of Operation

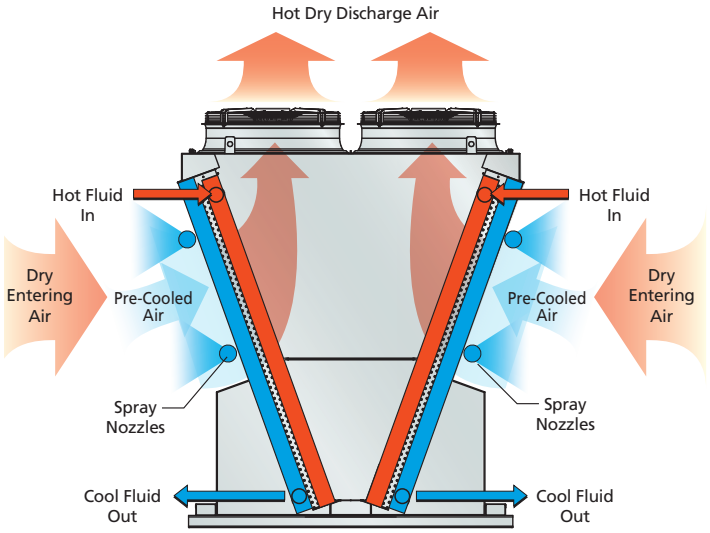
eco-Air Series V Coil (EAW-VA) Adiabatic Cooler

Hot process fluid enters the inlet header connection, shown in red. Heat from the process fluid dissipates through the coil tubes surface and out to the fins. The adiabatic system involves fully wetting a fibrous pad located in front of the coil. Ambient air is drawn through the adiabatic pre-cooling pad by the fans located on top of the unit. The air is saturated as it passes through the adiabatic pad, decreasing the dry bulb temperature within a few degrees of the wet bulb temperature. This new air temperature is referred to as the depressed dry bulb. This pre-cooled air is then drawn through the tube and fin surface, offering a substantial increase in heat rejection capability. Heat from the process fluid transfers to the air and discharged to the atmosphere. Cool process fluid exits the unit through the connections shown in blue.



eco-Air Series V Coil (EAW-VS) Spray Cooler

Hot process fluid enters the inlet header connection, shown in red. Heat from the process fluid dissipates through the coil tubes surface and out to the fins. The unit operates completely dry and modulates fan speed as necessary based on process temperature requirements and ambient conditions. When the unit can no longer maintain leaving water temperature set point in dry mode, the spray assist system is actuated. The spray system nozzles spray water away from the coil, cooling the entering air and increasing the heat rejection capability of the unit. The heat from the process fluid transfers to the cooled air and is discharged to the atmosphere. Cool process fluid exits the unit through the connections shown in blue.



Spray System Disclaimer: Although the nozzles spray water away from the coil, the coil and structure will get wet when water is in use. Due to this, the water chemistry guidelines provided in the Installation and Operation Manual should be strictly followed along with the recommended cleaning and maintenance instructions. Evapco also recommends designing the system for a maximum of 200 hours of spray operation per year to help limit the possibility for scale build-up and corrosion.

Advanced Coil Technology

EVAPCO has long been the industry innovator in heat exchanger coil technology starting in the early 1990's with the introduction of Thermal-Pak® coils which revolutionized the industry. Soon after, EVAPCO became the benchmark in industrial evaporator design, standardizing on stainless steel tubes and aluminum fins. The eco-Air Series coil design builds upon this past success. The coil tube diameter, geometry, and circuiting have been optimized through thousands of hours of theoretical modeling and laboratory testing. The result is optimal heat transfer efficiency with low airside pressure drop and low motor horsepower per ton.

Coil Design

Through the use of computational fluid dynamics (CFD) modeling software, finite element heat transfer analysis, and proprietary coil performance calculation methods, EVAPCO engineers have identified significant design elements to improve the finned coil performance. The extensive computer modeling has been refined and verified through coil performance evaluation in EVAPCO's state of the art research laboratories.

Superior Stainless Steel Technology

eco-Air Series dry coolers are constructed with high-grade Type 304L stainless steel tubing and aluminum fins as standard. The stainless steel tubing meets the requirements of ASME B31.5 piping code. The tubing is roll formed and continuously welded, annealed, and tested using an eddy current device.

The round tubing is fit into the aluminum fin plate and hydraulically expanded, this procedure provides more consistent contact between the tube and the fin plate than mechanical expansion. The entire coil is then pressure tested to 110% of design working pressure. Lastly, the coil is dried, evacuated, and charged with low-pressure nitrogen prior to shipment.

EVAPCO's stainless steel tubes are available in 15.65 mm OD. Coils are built in 6, 8, or 10 FPI as standard using a full-collar aluminum fin. Multiple fin thicknesses are available to accommodate a range of industrial applications.

For applications where corrosion of the aluminum fin is a concern, EVAPCO offers pre-coated epoxy fin stock.



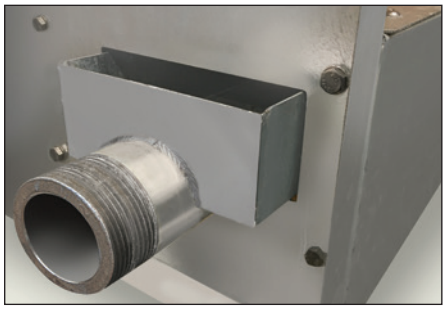
Benefits of eco-Air Series

Reduced Maintenance

Scaling, corrosion, and water born bacteria concerns are minimized or eliminated with dry and adiabatic cooling equipment. The eco-Air Series reduces the maintenance traditionally associated with fully evaporative systems.

The eco-Air Series adiabatic & spray coolers are designed as a once through systems, meaning no pump and no basin to hold water, reducing the time required for maintenance. Additionally on adiabatic units, the adiabatic pads filter the air before reaching the coil, limiting the exposure of dirt and debris to the tube and fin heat transfer surface.

Both AC and EC motor options require zero routine maintenance. There are no bearings to grease, belts to adjust, or fans to pitch and balance.



Adiabatic Pad Drip Pan



Zero Maintenance Motors

Reduced or Eliminated Water Consumption

Compared to traditional evaporative systems, the eco-Air Series will either eliminate or dramatically reduce water consumption. Adiabatic & spray models only use water when the ambient conditions and load require it. Reducing water consumption also reduces the ongoing expenses related with the cooling equipment such as purchasing, treating, and disposing of water.

When the eco-Air Series adiabatic & spray models are used in conjunction with the EVAPCO controls package, water conservation is maximized based on proprietary PLC logic.

Factory Mounted and Wired Controls

The motors on the eco-Air Series are pre-wired at the factory to UL standards, reducing costs associated with field wiring. As standard, all units are wired to a common terminal box. Adding the EVAPCO controls package allows for both single point power supply and complete capacity control.

Installation Made Easy

All units are designed for lifting and staging in one piece.

Fork lift channels come standard on all eco-Air Series units up to 5.8 m in length. On longer units, reference the eco-Air Series IO&M for lifting requirements from the fan deck lifting lugs.



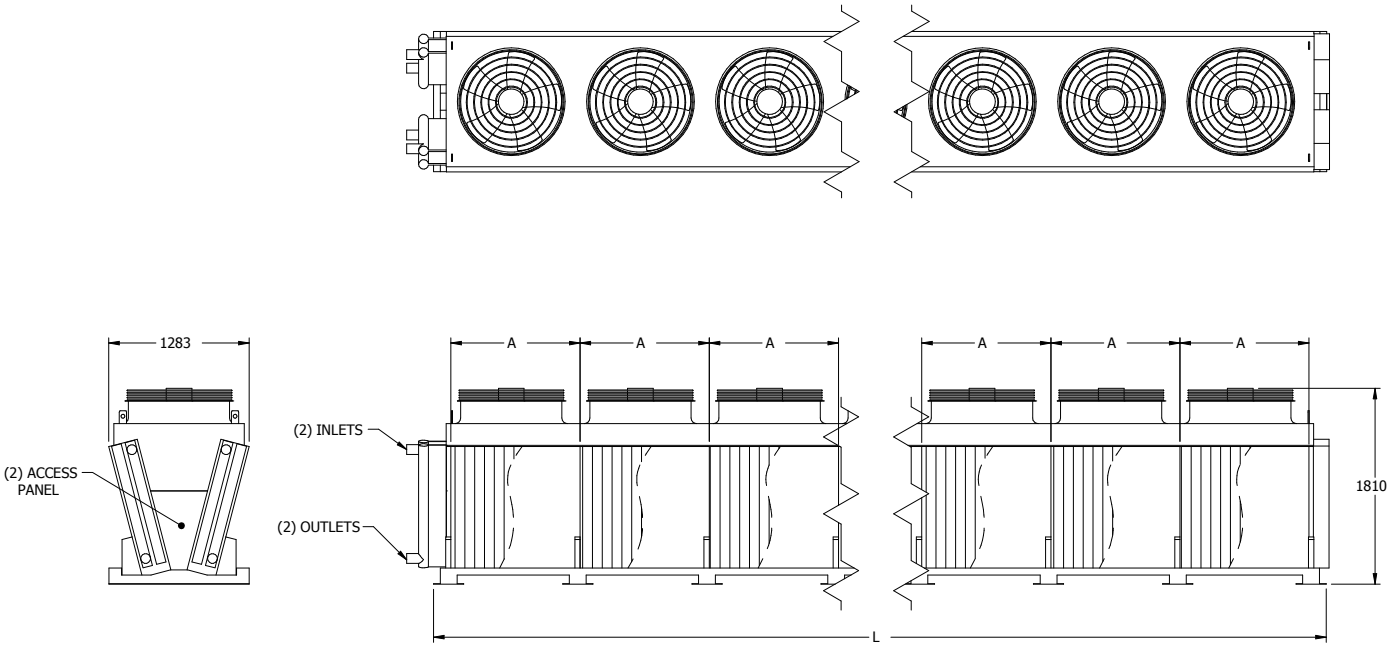
Factory Wired Fan Motors



Factory Mounted Control Panel

V Coil Configuration - EC Motor

Engineering Data



Single Fan, 4' Wide Models

Model Name	# Fans	Nominal Capacity (kW)	kW	Air Volume (m^3/s)	Unit Length (mm)	Coil Volume (l)	Shipping Weight (kg)	Operating Weight (kg)
EAW-VD91S1MA	1	103	3.2	8.6	1505	108	535	644
EAW-VD91S2MA	2	210	6.4	17.2	2677	162	885	1048
EAW-VD91S3MA	3	315	9.6	25.7	3845	216	1211	1429
EAW-VD91S4MA	4	419	12.8	34.3	5017	270	1583	1855
EAW-VD91S5MA	5	518	16	42.9	6185	324	1919	2241
EAW-VD91S6MA	6	626	19.2	51.5	7356	378	2236	2613

Notes:

* Adiabatic width: 1781 mm

A: Two incremental fin lengths available: 1170 mm or 1300 mm

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

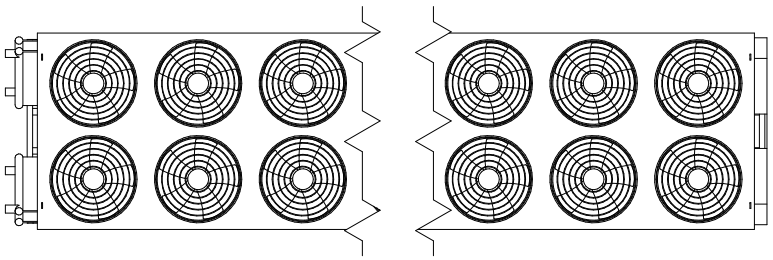
† Nominal Capacity 40°C-35°C at 25°C dry bulb temp.

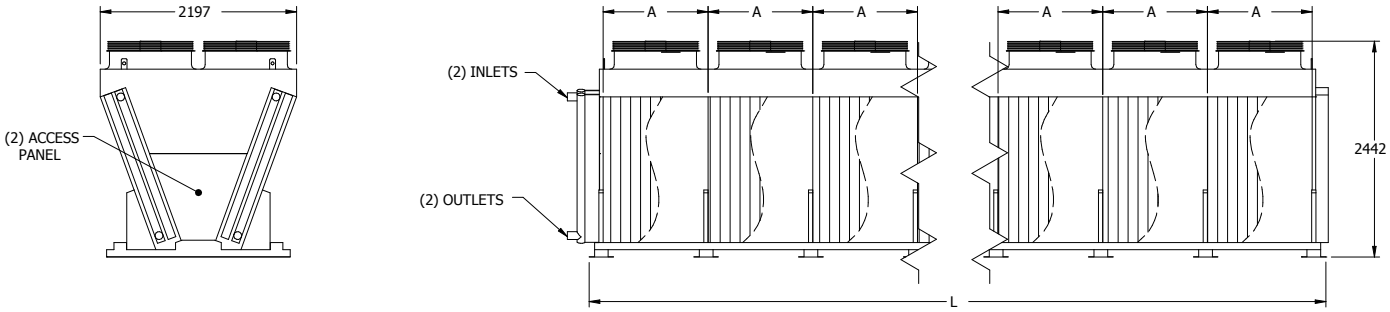
Adiabatic capacity: The adiabatic cooling effect and resulting depressed dry bulb entering the coil depends on the ambient dry bulb and associated relative humidity. Consult your sales representative, EVAPCO marketing, or Spectrum™ selection software for more information.

Spray Capacity: The cooling effect resulting from operating the spray system depends on the ambient dry bulb and associated relative humidity entering the coil. Consult your sales representative, EVAPCO marketing or Spectrum™ selection software for more information.

V Coil Configuration - EC Motor

Engineering Data





Twin Fan, 7' Wide Models

Model Name	# Fans	Nominal Capacity (kW)	kW	Air Volume (m^3/s)	Unit Length (mm)	Coil Volume (l)	Shipping Weight (kg)	Operating Weight (kg)
EAW-VD9102PJ	2	199	6.4	15.6	1635	194	966	1161
EAW-VD9104PJ	4	409	12.8	31.2	2934	304	1597	1901
EAW-VD9106PJ	6	613	19.2	46.8	4235	413	2259	2672
EAW-VD9108PJ	8	815	25.6	62.4	5534	522	2917	3438
EAW-VD9110PJ	10	1009	32	78.1	6836	631	3506	4137
EAW-VD9112PJ	12	1218	38.4	93.7	8134	741	4150	4890
EAW-VD9114PJ	14	1374	44.8	109.3	9563	850	4794	5643
EAW-VD9116PJ	16	1580	51.2	124.9	10735	959	5443	6400
EAW-VD9118PJ	18	1787	57.6	140.5	12036	1069	6083	7149
EAW-VD9120PA	20	1872	64	149.3	12036	1178	6155	7221

Notes:

* Adiabatic width: 2683 mm

* Adiabatic with PuRe-JET width: 2908 mm

A: Two incremental fin lengths available: 1170 mm or 1300 mm

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

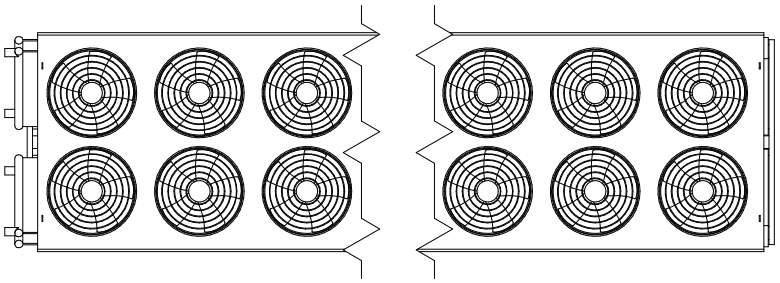
† Nominal Capacity 40°C-35°C at 25°C dry bulb temp.

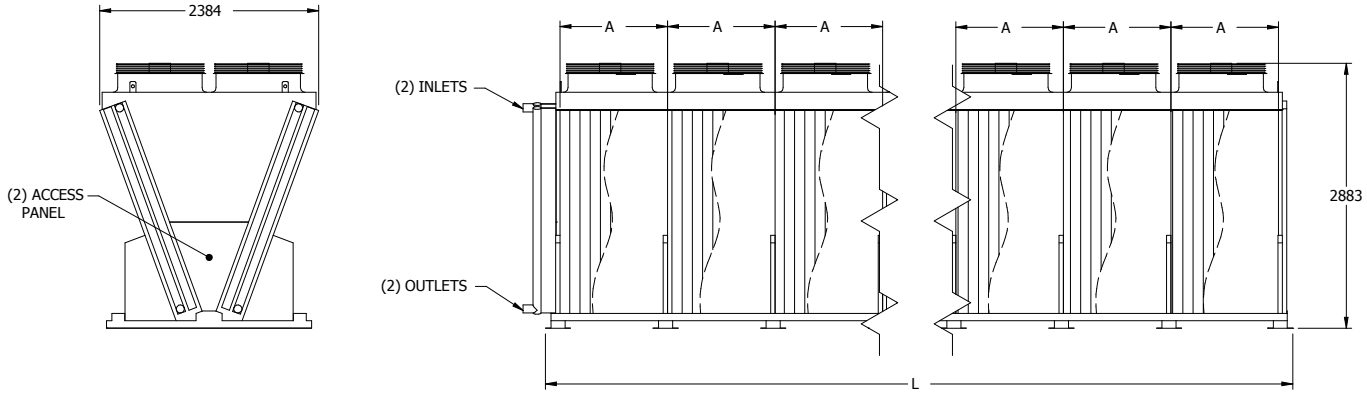
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Spray Capacity: The cooling effect resulting from operating the spray system depends on the ambient dry bulb and associated relative humidity entering the coil. Consult your sales representative, EVAPCO marketing or Spectrum™ selection software for more information.

V Coil Configuration - EC Motor

Engineering Data





Twin Fan, 8' Wide Models

Model Name	# Fans	Nominal Capacity (kW)	kW	Air Volume (m^3/s)	Unit Length (mm)	Coil Volume (l)	Shipping Weight (kg)	Operating Weight (kg)
EAW-VD9102ZJ	2	232	6.4	17.2	1635	260	1107	1370
EAW-VD9104ZJ	4	468	12.8	34.5	2934	407	1828	2236
EAW-VD9106ZJ	6	703	19.2	51.7	4235	554	2576	3130
EAW-VD9108ZJ	8	937	25.6	68.9	5534	700	3325	4023
EAW-VD9110ZJ	10	1159	32	86.1	6836	847	3996	4840
EAW-VD9112ZJ	12	1399	38.4	103.4	8134	993	4731	5720
EAW-VD9114ZJ	14	1638	44.8	120.6	9563	1140	5461	6595
EAW-VD9116ZJ	16	1821	51.2	137.8	10735	1286	6201	7480
EAW-VD9118ZJ	18	2059	57.6	155.1	12036	1433	6931	8355
EAW-VD9120ZA	20	2183	64	167.0	12036	1433	6954	8378

Notes:

* Adiabatic width: 2765 mm

* Adiabatic with PuRe-JET width: 2908 mm

A: Two incremental fin lengths available: 1170 mm or 1300 mm

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

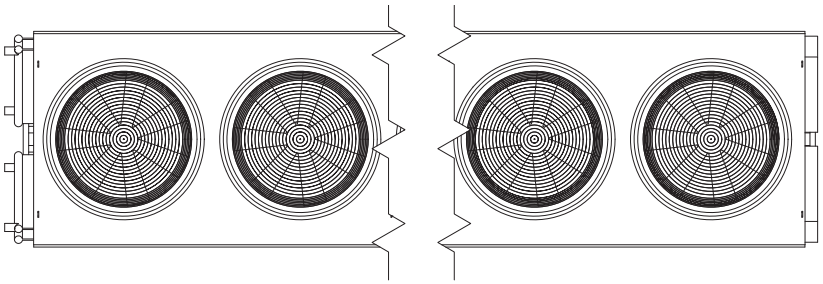
† Nominal Capacity 40°C-35°C at 25°C dry bulb temp.

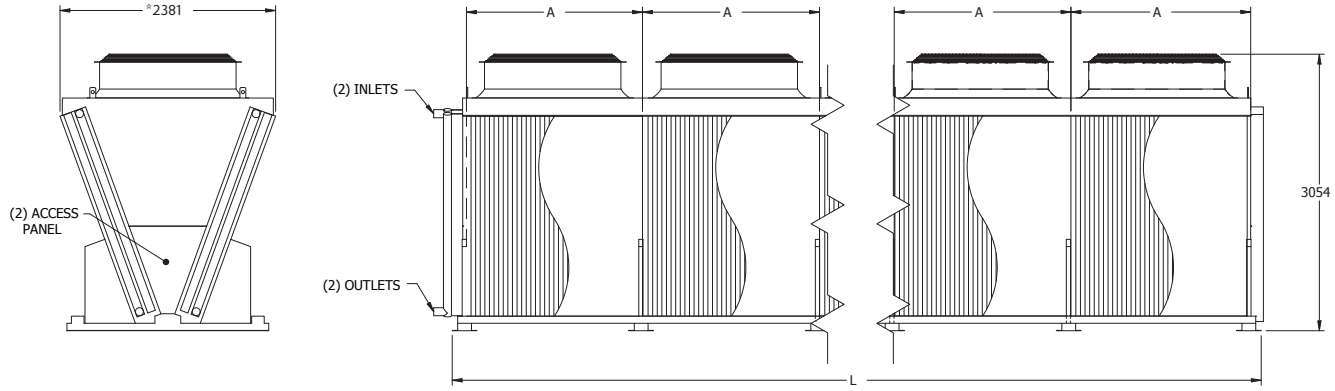
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Spray Capacity: The cooling effect resulting from operating the spray system depends on the ambient dry bulb and associated relative humidity entering the coil. Consult your sales representative, EVAPCO marketing or Spectrum™ selection software for more information.

V Coil Configuration - EC Motor

Engineering Data





Single Fan, 8' Wide Models

Model Name	# Fans	Nominal Capacity (kW)	kW	Air Volume (m^3/s)	Unit Length (mm)	Coil Volume (l)	Shipping Weight (kg)	Operating Weight (kg)
EAW-VD15S1ZK	1	392	17.3	29.6	2286	334	1483	1524
EAW-VD15S2ZK	2	782	34.6	59.1	4235	554	2595	2663
EAW-VD15S3ZK	3	1155	51.9	88.7	6185	773	3729	3819
EAW-VD15S4ZK	4	1554	69.2	118.2	8134	993	4758	4876
EAW-VD15S5ZK	5	1890	86.5	147.8	10084	1213	5879	6024
EAW-VD15S6ZK	6	2287	103.8	177.3	12036	1433	6985	7153

Notes:

* Adiabatic width: 2765 mm

A: One incremental fin length available: 1950 mm

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

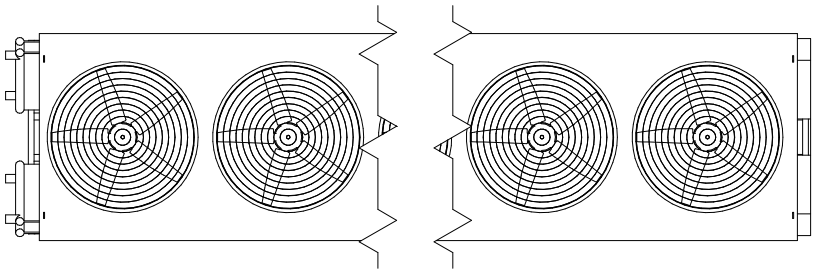
† Nominal Capacity 40°C-35°C at 25°C dry bulb temp.

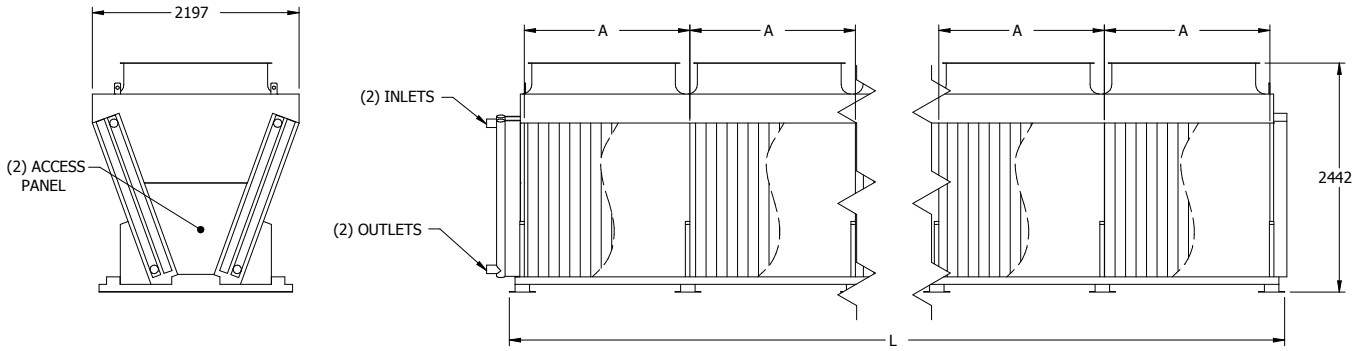
Adiabatic capacity: The adiabatic cooling effect and resulting depressed dry bulb entering the coil depends on the ambient dry bulb and associated relative humidity. Consult your sales representative, EVAPCO marketing, or Spectrum™ selection software for more information.

Spray Capacity: The cooling effect resulting from operating the spray system depends on the ambient dry bulb and associated relative humidity entering the coil. Consult your sales representative, EVAPCO marketing or Spectrum™ selection software for more information.

V Coil Configuration - AC Motor

Engineering Data





Single Fan, 7' Wide Models

Model Name	# Fans	Nominal Capacity (kW)	kW	Air Volume (m^3/s)	Unit Length (mm)	Coil Volume (l)	Shipping Weight (kg)	Operating Weight (kg)
EAW-VD15S1PI	1	283	7.5	20.3	2677	282	1501	1783
EAW-VD15S2PI	2	570	15	40.6	5017	478	2681	3157
EAW-VD15S3PI	3	845	22.5	61.0	7356	675	3801	4472
EAW-VD15S4PI	4	1135	30	81.3	9696	872	4962	5829
EAW-VD15S5PI	5	1385	37.5	101.6	12036	1069	6142	7208
EAW-VD15S6PK	6	1516	45	113.8	12036	1069	6260	7326

Notes:

* Adiabatic width: 2683 mm

A: Three incremental fin lengths available: 1755 mm, 1950 mm or 2340 mm

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

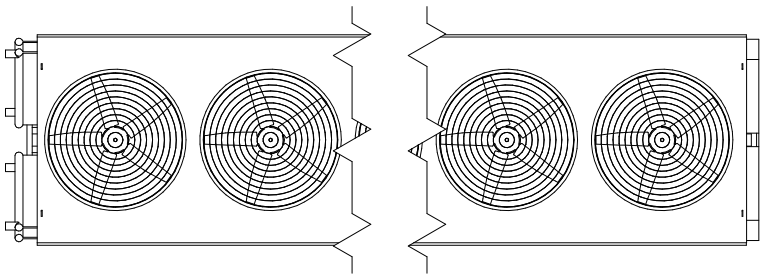
† Nominal Capacity 40°C-35°C at 25°C dry bulb temp.

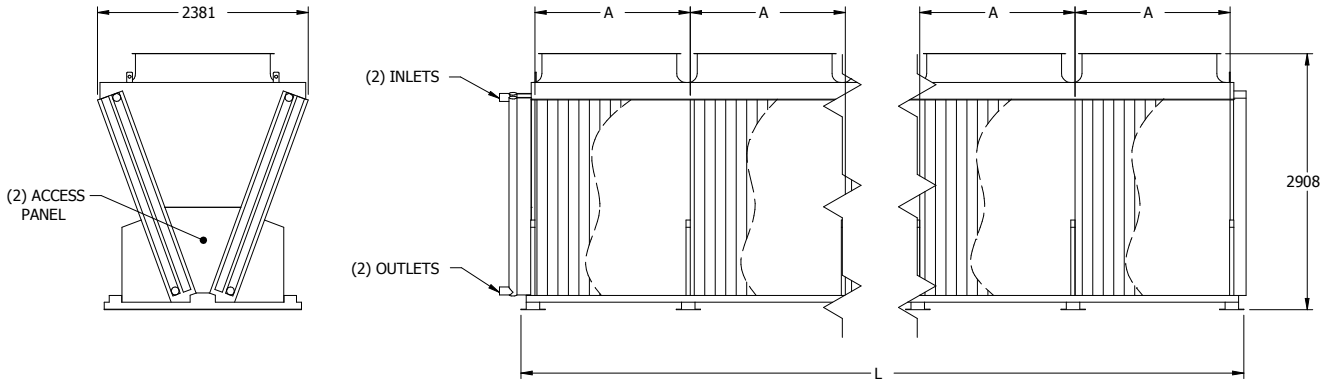
Adiabatic capacity: The adiabatic cooling effect and resulting depressed dry bulb entering the coil depends on the ambient dry bulb and associated relative humidity. Consult your sales representative, EVAPCO marketing, or Spectrum™ selection software for more information.

Spray Capacity: The cooling effect resulting from operating the spray system depends on the ambient dry bulb and associated relative humidity entering the coil. Consult your sales representative, EVAPCO marketing or Spectrum™ selection software for more information.

V Coil Configuration - AC Motor

Engineering Data





Single Fan, 8' Wide Models

Model Name	# Fans	Nominal Capacity (kW)	kW	Air Volume (m^3/s)	Unit Length (mm)	Coil Volume (l)	Shipping Weight (kg)	Operating Weight (kg)
EAW-VD15S1ZK	1	298	7.5	21.1	2286	334	1497	1833
EAW-VD15S2ZK	2	595	15	42.1	4235	554	2626	3180
EAW-VD15S3ZK	3	896	22.5	63.2	6185	773	3774	4545
EAW-VD15S4ZK	4	1184	30	84.2	8134	993	4822	5811
EAW-VD15S5ZK	5	1489	37.5	105.3	10084	1213	5960	7167
EAW-VD15S6ZK	6	1747	45	126.4	12036	1433	7085	8509

Notes:

* Adiabatic width: 2765 mm

A: Two incremental fin lengths available: 1755 mm, 1950 mm or 2340 mm

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

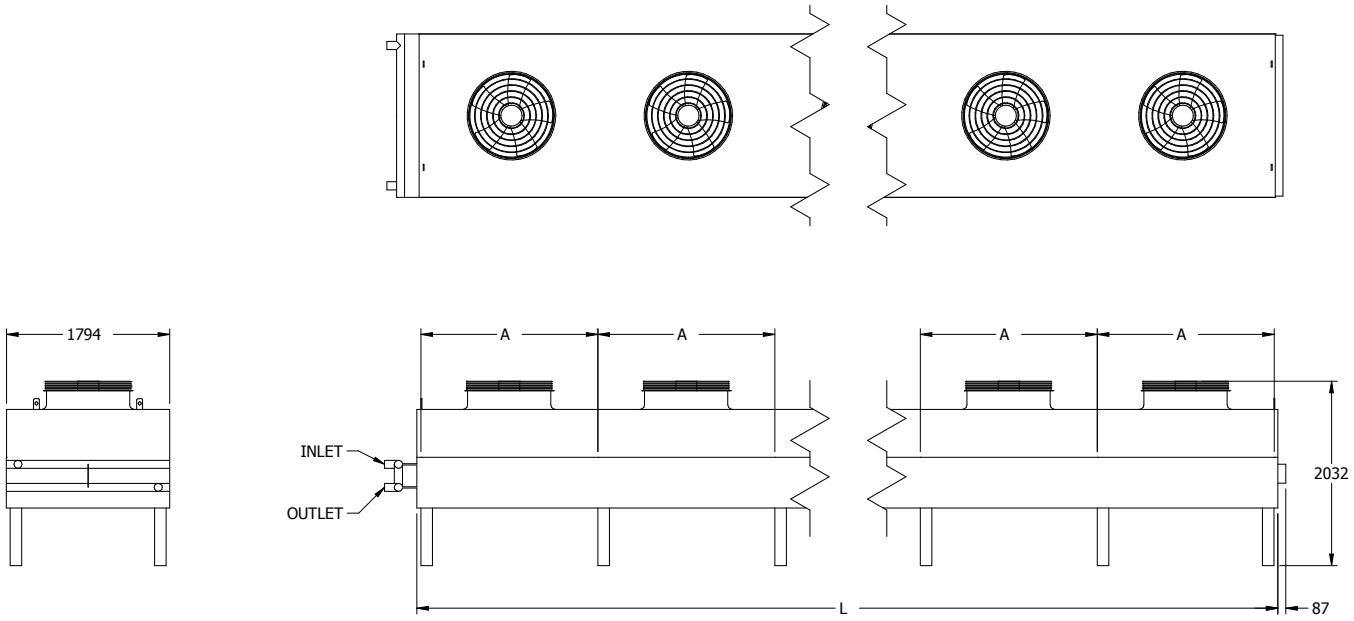
† Nominal Capacity 40°C-35°C at 25°C dry bulb temp.

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.

Spray Capacity: The cooling effect resulting from operating the spray system depends on the ambient dry bulb and associated relative humidity entering the coil. Consult your sales representative, EVAPCO marketing or Spectrum™ selection software for more information.

Flat Coil Configuration - EC Motor

Engineering Data



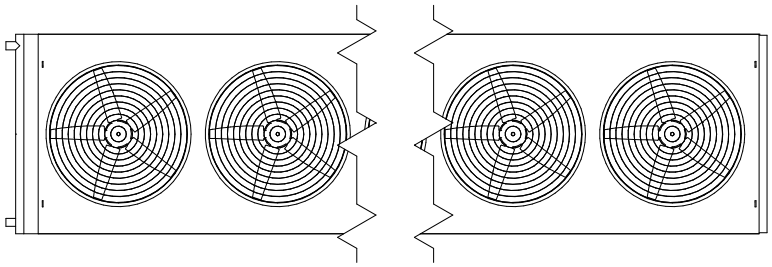
Single Fan, 6' Wide Models

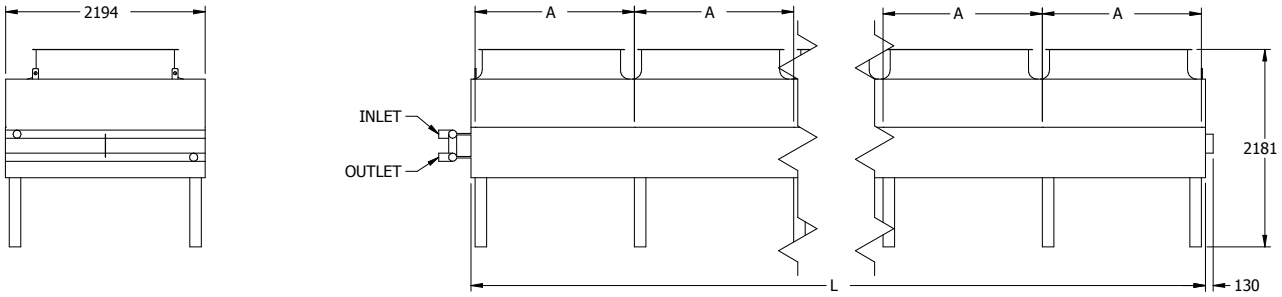
Model Name	# Fans	Nominal Capacity (kW)	kW	Air Volume (m^3/s)	Unit Length (mm)	Coil Volume (l)	Shipping Weight (kg)	Operating Weight (kg)
EAW-FD91S1WK	1	122	3.2	9	2036	124	649	776
EAW-FD91S2WK	2	246	6.4	18	3988	206	1143	1352
EAW-FD91S3WK	3	369	9.6	27	5935	288	1619	1910
EAW-FD91S4WK	4	489	12.8	35	7887	370	2018	2390
EAW-FD91S5WK	5	594	16	44	10154	452	2486	2939
EAW-FD91S6WK	6	718	19.2	53	11786	534	2957	3493

Notes:
Dimensions are subject to change. Do not use for pre-fabrication.
† Nominal Capacity based on 40°C-35°C at 25°C dry bulb temperature.

Flat Coil Configuration - AC Motor

Engineering Data





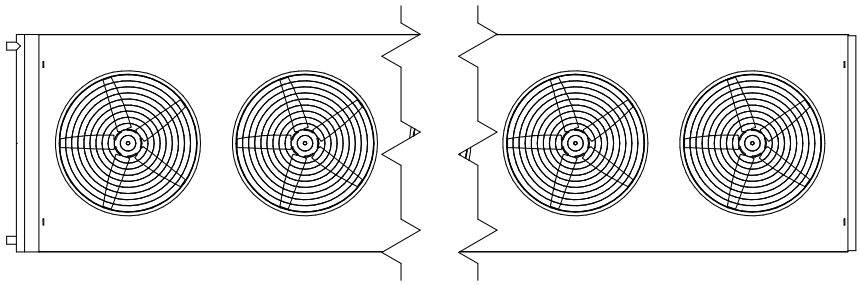
Single Fan, 7' Wide Models

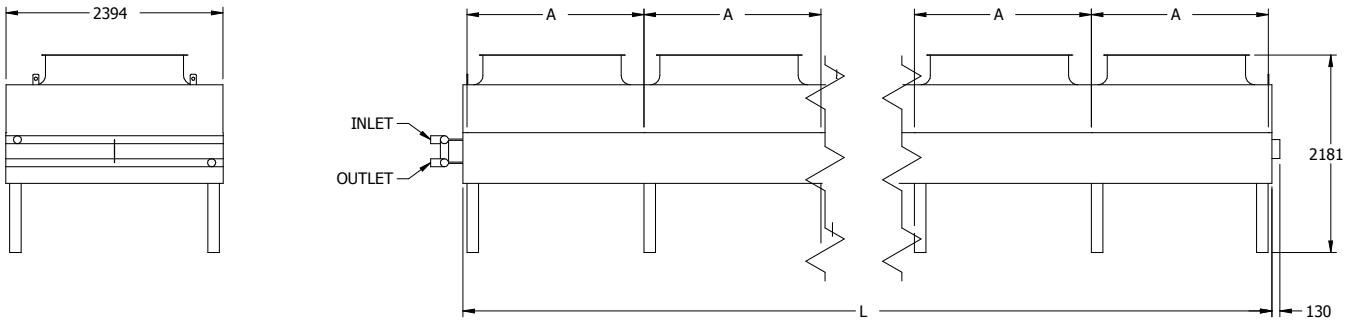
Model Name	# Fans	Nominal Capacity (kW)	kW	Air Volume (m^3/s)	Unit Length (mm)	Coil Volume (l)	Shipping Weight (kg)	Operating Weight (kg)
EAW-FD15S1PB	1	170	7.5	13	1842	137	880	1021
EAW-FD15S2PB	2	342	15	27	3596	225	1538	1764
EAW-FD15S3PB	3	504	22.5	40	5351	312	2195	2508
EAW-FD15S4PB	4	680	30	53	7106	399	2762	3162
EAW-FD15S5PB	5	823	37.5	67	8934	486	3416	3901

Notes:
A: Three incremental fin lengths available: 1755 mm, 1950 mm or 2340 mm
Dimensions are subject to change. Do not use for pre-fabrication.
† Nominal Capacity based on 40°C-35°C at 25°C dry bulb temperature.

Flat Coil Configuration - AC Motor

Engineering Data





Single Fan, 8' Wide Models

Model Name	# Fans	Nominal Capacity (kW)	kW	Air Volume (m^3/s)	Unit Length (mm)	Coil Volume (l)	Shipping Weight (kg)	Operating Weight (kg)
EAW-FD15S1ZK	1	200	7.5	15	2036	167	975	1143
EAW-FD15S2ZK	2	406	15	31	3988	277	1724	2000
EAW-FD15S3ZK	3	599	22.5	46	5935	387	2468	2853
EAW-FD15S4ZK	4	806	30	62	7887	497	3112	3606
EAW-FD15S5ZK	5	980	37.5	77	10154	607	3851	4454
EAW-FD15S6ZK	6	1185	45	93	11786	716	4586	5298

Notes:
A: Three incremental fin lengths available: 1755 mm, 1950 mm or 2340 mm
Dimensions are subject to change.
† Nominal Capacity based on 40°C-35°C at 25°C dry bulb temperature.

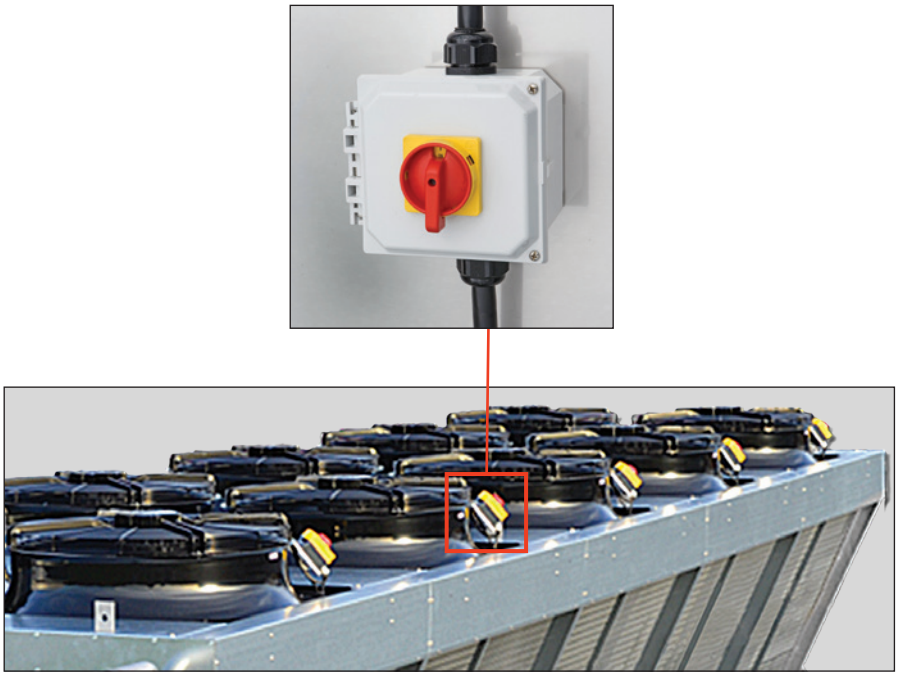
Wiring and Control Options

Factory wiring and control options are available for all eco-Air Series coolers. All wiring follows UL recognized standards. Many eco-Air Series configurations allow for single point power and factory mounted components. Please consult your sales representative or EVAPCO Marketing for job specific details.

Common Terminal Box (standard) - All motors wired to a common terminal box located on the end panel opposite coil connections. Factory wiring and design complies with UL Recognized Standards.



Individual Motor Disconnect Switches (optional) - Mounted at each fan motor to give the user the ability to isolate individual motor power feeds.

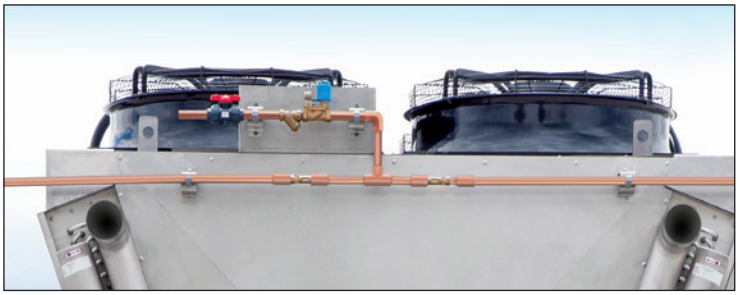


Wiring and Control Options

EVAPCO Control Package – Operating sequence and fan speed control based on real time heat loads and ambient conditions.



- EVAPCO PLC Controller
- Supervisory control system integration
- Fan speed control
  - EC Motor Option: Modbus control of EC fan
  - AC Motor Option: Packaged VFD fan speed control with bypass switch
- Motor/VFD protection:
  - EC Motor Option: Two motors per circuit breaker
  - AC Motor Option: One motor per circuit breaker
- Thermal overload and short circuit protection of each motor
- Operate and fault indicator lights on outside of panel
- Fluid Temperature Sensor (shipped loose)
- Ambient Temperature Sensor
- Rain/Sun Protection Hood (optional)
- Solenoid control of adiabatic pre-cooling system (if equipped)



Water supply solenoid valve arrangement

The EVAPCO Control Package is factory mounted and wired when configuration and shipping limitations allow.



CE & EU Directive Compliance
All Components are CE Marked

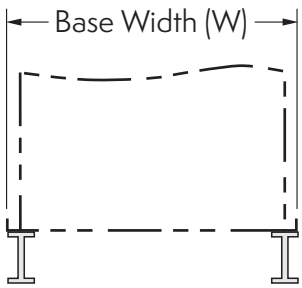
The entire unit carries a full **CE Mark** and complies with the **Machinery Directive (2006/42/EC)** when provided with our factory-mounted and wired Control Package.

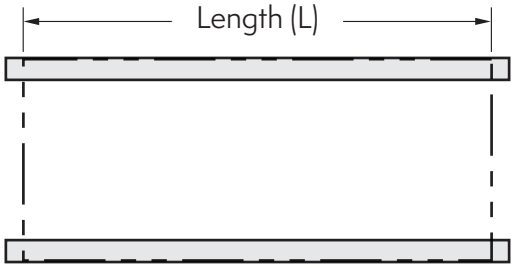
The complete assembly satisfies all relevant European safety standards, including **EN 60204-1** for electrical machinery, the **Low Voltage Directive (2014/35/EU)**, and the **EMC Directive (2014/30/EU)**.

CE

Structural Steel Support

eco-Air Series Supporting Steel Dimensions			
V Models	**Dry & Spray Unit Base Width (W)**	**Adiabatic Unit Base Width (W)**	**Adiabatic with PuRe-JET Base Width (W)**
4' Wide	1,270 mm	1,778 mm	-
7' Wide	2,197 mm	2,680 mm	-
8' Wide	2,229 mm	2,762 mm	2,908 mm
F Models	**Base Width (W)**	-	-
6' Wide	1,778 mm	-	-
7' Wide	2,680 mm	-	-
8' Wide	2,762 mm	-	-





Length as shown on "unit length range (L)" in catalog table

1. These are suggested arrangements for preliminary layout purposes. Consult your EVAPCO representative for factory certified steel support drawings.
2. The recommended support for the eco-Air Series coolers is structural I-beams running the entire length of the unit. Mounting holes, 19 mm in diameter are provided for bolting to the structural steel.
3. 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 13 mm.
5. Beams should be level before setting the unit in place. Do not level the unit by shimming between it and the I-beams.
6. Support beams and Anchor bolts are to be furnished by others.
7. Dimensions, weights and data are subject to change without notice. Refer to the factory certified drawings for exact dimensions.

EVAPCO Technical Support Services

EVAPCO Representatives

Your EVAPCO representative is the local expert you can count on to help you with all your HVAC and industrial process needs—from getting quotes, to answering questions, to helping you manage your projects and orders. Find your local representative, by visiting **evapco.eu** now.

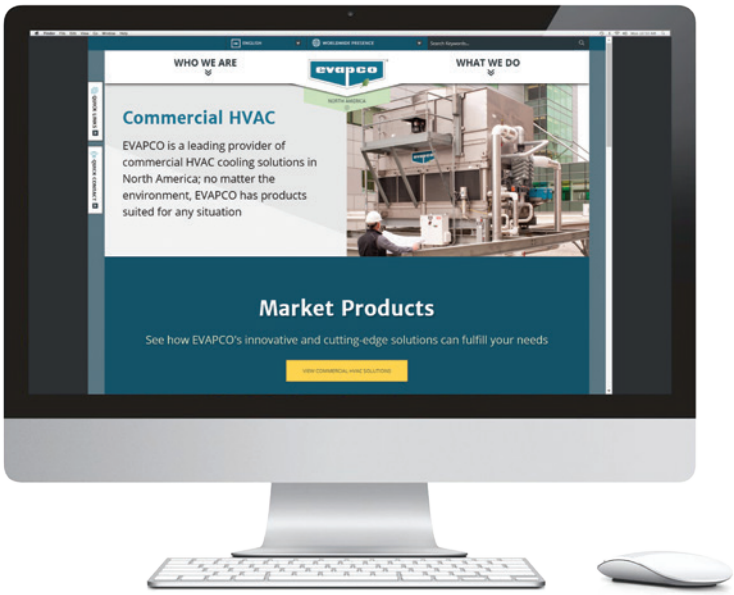
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Bookmark evapco.com for the latest and most complete product information. The website contains a multitude of information and resources including:

- Unit certified drawings
- Steel support drawings
- Scaled isometric views in CAD
- 3-D models in Revit
- Product catalogs
- Rigging instructions
- Operation and maintenance instructions
- White papers
- Videos



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PUMP POWER
AND MORE

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TECHNOLOGY

NOTES

NOTES

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