

DRY & ADIABATIC COOLERS & CONDENSERS

eco-Air Series



Environmentally Conscious Dry & Adiabatic Operation



CERTIFIED EN ISO 9001

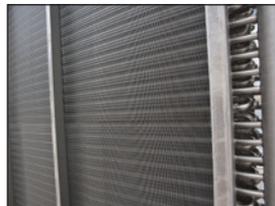
euramm@n
refrigerants delivered by mother no.

eco-Air Series Design & Construction Features

The eco-Air Series of coolers and condensers represents EVAPCO's newest advancement in thermal heat transfer research and development. Available in fully dry and adiabatic 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.

Heat Exchanger Coil

- Copper tubes with aluminum fins
- Stainless steel tubes with aluminum fins available
- Multiple fin spacings and tube configurations
- Upgraded fin thickness available

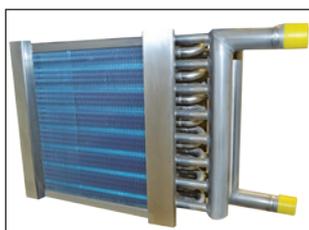


Structure and Casing

- Standard Z-725 galvanized steel (725 g/m² of zinc)
- Stainless steel available for increased corrosion resistance and longevity

V Coil Models

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



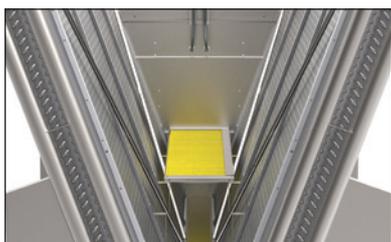
Epoxy Coated Fins or Aluminum Magnesium Fins (optional)

- Increased corrosion resistance



Inspection Panel (V Coil Models)

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



Internal Step Deck (optional)

- Platform and grab rail for access to elevated fan section components
- V coil models only



Coil Return Bend Covers & Header Cover Plates (optional)

- Protects the coil return bends and the headers during handling and operation



Adiabatic Pre-Cooling System (optional)

- 150 mm 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 (Adiabatic Pad Drip Pan)
- No drift
- V coil models only
- Adiabatic frame in stainless steel

eco-Air Series Design & Construction Features

Advanced Motor Technology

Electronically Commutated (EC) or AC fan motor designs

AC

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



Electronically Commutated (EC)

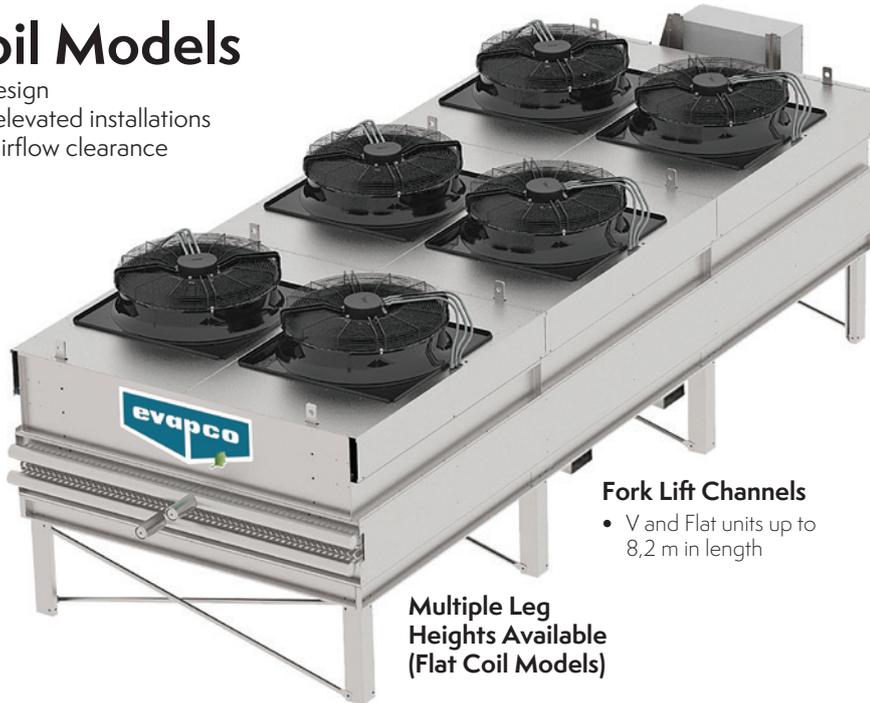
EC motors are the latest development in energy savings and speed control. The high efficiency wing tip fans operate up to 3 dB less than conventional blade fans with improved part speed energy consumption.

- Zero maintenance
- Integrated speed control



Flat Coil Models

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



Fork Lift Channels

- V and Flat units up to 8,2 m in length

Multiple Leg Heights Available (Flat Coil Models)



Common Terminal Box (optional)

- All motors factory wired
- Saves time in the field
- Rain & Sun hood (optional)



Individual Motor Safety Switch (optional)



Factory Mounted & Wired Controls (optional)

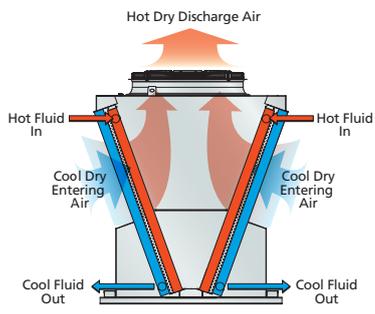
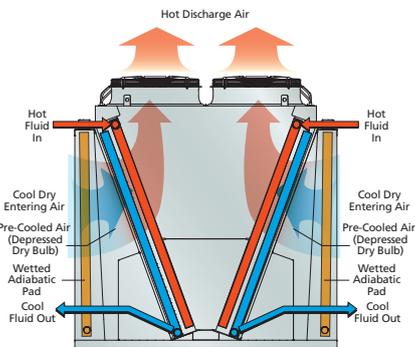
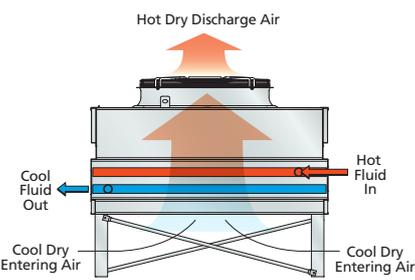
- Single point power connection
- EVAPCO PLC controller with communication to Building Management System (BMS)
- Modbus control for EC fans
- VFD for AC motors
- Thermal overload and short cut protection
- Ambient temperature sensor
- Fluid temperature sensor or Refrigerant pressure sensor
- Solenoid control of adiabatic pre-cooling system
- Rain & Sun hood (optional)



100% Fully Rated Guarantee

- Products tested at full-scale in the EVAPCO Research and Development Center
- The product will meet 100% thermal performance per specification. No performance tolerance is applied

eco-Air Series Design & Construction Features

eco-Air V Series	Applications	Features	Principle of Operation
EAVWD / EAVCD 	<p>A dry induced draft cooler (EAVWD) or condenser (EAVCD) with no water usage, providing maximum surface area per foot-print.</p> <p>The innovative design provides optimal cooling while cutting the high costs of water and water treatment.</p> <p>Available with AC or EC motors.</p>	<ul style="list-style-type: none"> • 100% fully rated guarantee • Runs 100% dry – No water treatment • Copper or stainless steel tubes with aluminum fins and Z-725 galvanized steel construction as standard for increased corrosion resistance and longevity 	
eco-Air Adiabatic Series EAVWA / EAVCA 	<p>An adiabatic, induced draft cooler (EAVWA) or condenser (EAVCA), that minimizes water usage while providing maximum heat rejection for any outdoor applications.</p> <p>A pre-cooling system is used to increase the capacity for high dry bulb and high temperature applications.</p> <p>Available with AC or EC motors.</p>	<ul style="list-style-type: none"> • 100% fully rated guarantee • Adiabatic pre-cooling system pre-cools the entering air for increased energy savings and capacity while minimizing water usage. • Copper or stainless steel tubes with aluminum fins and Z-725 galvanized steel construction as standard for increased corrosion resistance and longevity 	
eco-Air Flat Series EAFWD / EAFCD 	<p>Low profile, flat, induced draft cooler (EAFWD) or condenser (EAFCD) with bottom airflow clearance is excellent for any elevated outdoor application.</p> <p>Available with AC or EC motors.</p>	<ul style="list-style-type: none"> • 100% fully rated guarantee • Runs 100% dry – No water treatment • Copper or stainless steel tubes with aluminum fins and Z-725 galvanized steel construction as standard for increased corrosion resistance and longevity 	

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