

CLOSED CIRCUIT COOLERS









Get to Know EVAPCO

- The global innovator in heat transfer solutions
- Serving the commercial HVAC, Industrial Refrigeration, Power Generation, and Industrial Process markets
- Founded in 1976
- Employee-owned
- 33 locations 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 is a pledge to make everyday life easier, more comfortable, more reliable, and more sustainable for people everywhere. How do we fulfill that promise? It is simple.

We never stop innovating.

At EVAPCO, we do not just talk about innovation, It is 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 is why we have more than 200 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 do not 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 handin-hand at EVAPCO. EVAPCO's industrial heat transfer equipment not only conserves natural resources and helps reduce noise pollution, they also feature recycled steel content in their construction. Our stainless steel units are constructed of panels that contain up to 75% recycled content; over 80% in galvanized units construction. From sound reduction to water conservation to chemical elimination, we are constantly developing new technologies that deliver the ultimate operating advantages for our clients—and protect the planet for every generation that comes after us.





evapco





Maximize the water or energy savings of your eco-cooler with EVAPCO's Sage® Water and Energy Conservation System! The Sage system automatically operates the eco unit in a manner which maximizes water or energy savings, based on the client's savings priority.

Manufacturer Supplied and Programmed

Using our patented Sage Control System guarantees seamless integration with your eco unit, reduced field installation times, and maintains EVAPCO as your single-source cooling solution.



The Sage control system can be set to either maximize water or energy efficiency. By measuring and analyzing real-time load and weather data, the Sage control system switches between various modes of operation, readily adjusting fan speed and switching from dry to evaporative mode as load and conditions require, based on the prioritizing of water or energy savings.



Water Savings Priority

When set to prioritize water savings, the Sage control system automatically varies the unit between dry and evaporative modes of operation and stages spray pumps to minimize time spent in evaporative mode.

Energy Savings Priority

When set to prioritize energy savings, the Sage control system automatically varies the unit between dry and evaporative modes of operation, and controls fan speed and pump operation in an effort to maximize energy savings.

Enjoy the full benefits of the Sage control system with one of EVAPCO's unmatched hybrid cooling units

eco-ATWB & eco-ATWB-H evaporative coolers provide the ultimate solution for installations seeking the highest ambient dry bulb switchover temperatures, reduced water usage, high peak-load output, and plume abatement.



Programmable Logic Controller (PLC) communication protocols

- BACnet IP
- BACnet MS/TP
- Modbus RTU
- Modbus TCP

Control Features

- Manual operation of pumps and fans
- Ability to enable or disable makeup valve
- Power failure recovery timer
- Ability to perform bump test
- Visual status display of all unit components and accessories
- Back up with user settings and factory settings
- Pump runtime recorder
- Fan motor runtime recorder

Standard Control & Power Items

- UL Type 4 enclosure
- UL approval
- Programmable Logic Control
- Variable frequency drive(s)
- Recirculating pump motor starter(s)
- Fluid inlet/outlet temperature sensors with high and low alarm setpoints
- Basin temperature sensor(s)
- Ambient dry bulb sensor
- Main disconnect circuit breaker
- Main bypass/off/auto switch (BOA)
- DC power supply for the PLC and instruments
- Control power transformer
- Heater contactor with overload protection and temperature setpoints with fusing
- 5-Probe Electronic Water Level Control package
- High/low water level alarm contacts
- Fan motor: space heater control(s)
- Relays for all PLC digital outputs
- Terminal blocks for each PLC input/output
- Ethernet connection between VFD(s), PLC and operator interface



HMI Panel Display

The Sage Control Panels are provided with a 10" touch screen operator interface with a color display. This allows for easy viewing and control at the panel.



Temperature Sensors (Field Installed)

Four separate temperature data points are monitored with this package:

- Inlet Temperature Sensor: 0°F 180°F range
- Outlet Temperature Sensor: 0°F 180°F range
- Dry-Bulb Temperature Sensor: -30°F 130°F range
- Basin Temperature Sensor: 0°F 180°F range

Enclosure Temperature Control

The panel enclosure includes an intake and an exhaust ventilation fan. When the enclosure temperature rises to a predetermined setpoint, the exhaust fans are activated. The enclosure also contains a heater. The heater eliminates the drastic temperature changes which could create condensation inside of the enclosure. The maximum ambient temperature range is between -4°F to 104°F. Consult your EVAPCO sales representative for temperature requirements outside these conditions.





Fan Heater *Optional communication protocol may be available. Please contact your local EVAPCO sales representative.



SAGE24MKTG

Committed to making life easier, more reliable and more sustainable for people everywhere