

**BALTIMORE
AIRCOIL COMPANY**

Reliably serving your cooling process



Optimised for
trouble-free
industrial operation



TrilliumSeries
Cooler

TVFC

Closed Circuit
Adiabatic Cooler



**BALTIMORE
AIRCOIL COMPANY**

... because temperature matters™



TrilliumSeries
Cooler

TVFC Closed Circuit Adiabatic Cooler

Baltimore Aircoil Company is the worldwide leading manufacturer of heat rejection equipment for a wide range of applications. In its constant search for improvement in design and performance BAC has developed and perfected many features which have become the standard of excellence for cooling throughout the world.

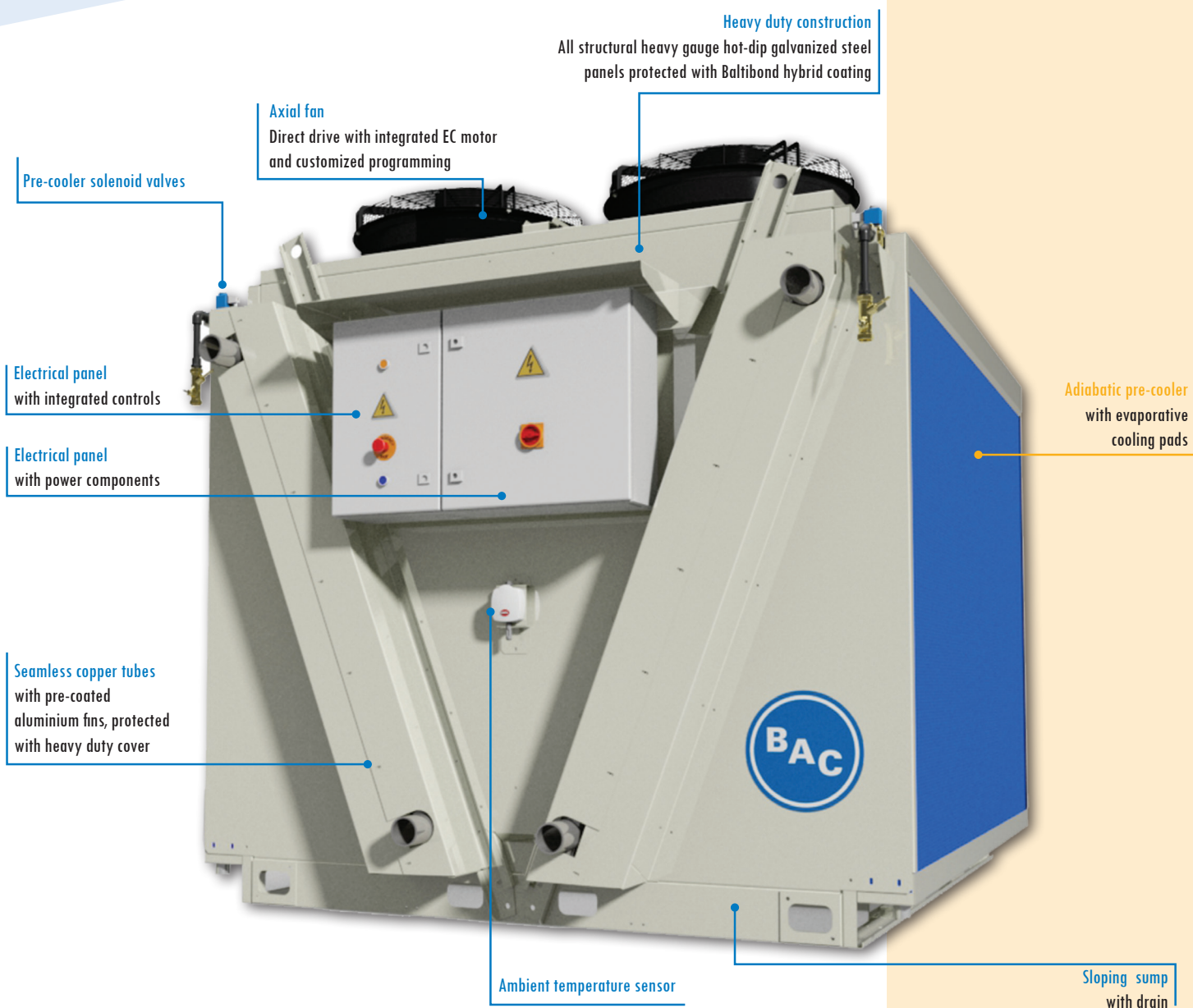
The TrilliumSeries **TVFC Closed Circuit Adiabatic Cooler** has been developed to achieve **maximum adiabatic cooling** while eliminating the risk of uncontrolled growth of algae, slimes and other micro-organisms such as legionella.

It is designed to offer year round reliable industrial operation meeting the highest degree of redundancy.

TVFC TrilliumSeries Coolers come standard with **2 electrical panels**, separating the 24V control components from the 400V power components. The integrated controller supports **all common communication protocols**.



Capacity 250 - 2000 kW



benefits

largest adiabatic capacity

- TVFC TrilliumSeries coolers offer **maximum thermal performance per m² footprint**, with an optimal air distribution over V-shaped coils with maximum heat transfer surface.
- TVFC TrilliumSeries coolers can be designed with a coil freeze-up safeguard* that allows for operation with **pure water as process fluid**, providing on average **8% higher performance** than comparable systems with glycol solutions.
- Lowest system pump motor kW due to low hydraulic coil pressure drops for an **optimal system efficiency**.
- Synchronous EC motors with IE4+ efficiency; variable speed control for **maximum system efficiency**.

highest degree of redundancy

- TVFC TrilliumSeries coolers have a larger amount of fans that provide an **unmatched degree of backup capacity**.
- Internal partitioning panels* create individual air intake ducts for each fan, which **eliminates thermal performance loss** due to air bypassing the coil through an idle fan.
- The pre-cooler pump recirculation system* offers **adiabatic backup guarantee**** in case of pump failure.
- Optimal controls guarantee **full performance** even with loss of controller or communication.

unrivalled reliability

- BAC's TVFC TrilliumSeries coolers come with all structural elements protected with **Baltibond hybrid coating**, a coating with a proven track record on evaporative cooling equipment. Designed for severe conditions it offers the same **reliable life expectancy** as stainless steel 304L.
- All critical components are located outside, providing **easy access at all times**.
 - Fan motors can be replaced in all **safety for both the intervening technician as well as for the unit**. Any risk of damage to critical components such as the heat exchangers and bottom panels is removed.
 - Pump maintenance is **possible during adiabatic operation**.
- Small motors and fans, increasing the ease with which they can be handled during replacement.
- Special anti-abrasive protection on the pads, to **ensure their durability** under harsh conditions.
- Epoxy coating* on the coils **increases the resistance** against a humid environment, high chlorides and other corrosive agents.

saving water

- TrilliumSeries coolers can achieve **annual water savings exceeding 90%** water compared to normal cooling towers by limited adiabatic operation.

top hygiene control

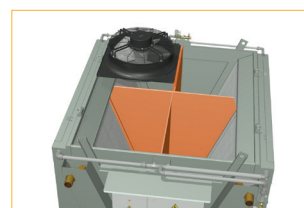
- No aerosol formation: TrilliumSeries coolers **minimize the Legionella risk**.
- TrilliumSeries coolers cool incoming air **without transferring water to the dry coil**.
- No continuously wet parts: all parts that come into contact with water are fully drainable, no water is stored in the unit during dry operation.

plug and play with factory set custom controls

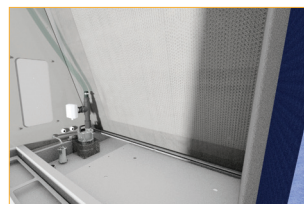
- Proven controls running for **more than a decade**.
- All site specific **parameters are factory set and tested** before the unit is shipped.
- 8 control strategies allowing you to **optimise the cooler to your specific needs**.



Large amount of fans for optimal air distribution and backup capacity



Internal partitioning panels* for individual air intake



Pump recirculation system* with adiabatic backup guarantee**, accessible during operation



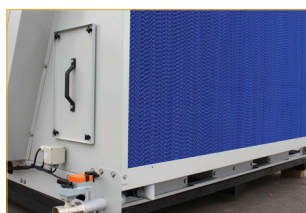
Critical components accessible from outside during operation



Fully drainable sump, accessible during operation



Integrated controls with separate control and power panels



Pump* accessible via large inspection door, during operation



Pump* maintenance during adiabatic operation

* optional

** patent pending



**BALTIMORE
AIRCOIL COMPANY**

BALTIMORE AIRCOIL COMPANY



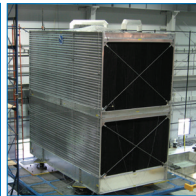
With thousands of successfully operating installations worldwide Baltimore Aircoil has the **application and system experience** to assist you in the design, installation and operation of your cooling equipment. Ongoing investment in research, combined with an advanced **R&D** laboratory facility, enables BAC to consistently offer new technologies and products to meet developing industry demands.

Baltimore Aircoil Company has a **network of highly qualified sales representatives** backed up by an experienced technical staff to ensure that each customer project is a success.

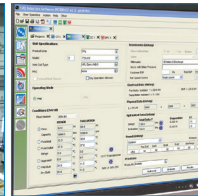
Sustainability is fostered and cultivated in BAC's business processes. Through our products we also help our customers to achieve their sustainability goals. You can find BAC's sustainability commitments on the website www.BacSustainability.com.



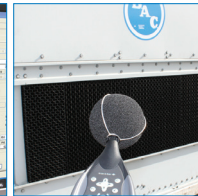
3D-design software



5000 m² R&D-test centre



selection and simulation software



testing



high quality and sustainable
manufacturing



on site services



sustainable business processes
and culture

There is a wide variety of closed circuit cooling tower concepts available on the market. For this reason we recommend you to evaluate different cooling tower configurations for your project. Your BAC Baltimore representative is available to assist you in this evaluation.

In order to select the right closed circuit cooling tower for a specific application, a number of important parameters should be considered. Listed below are questions, which should be answered when making your choice.

about the application

- ☐ What are the design conditions (temperature, flow rate,...)?
- ☐ What are the site limitations (physical, acoustical,...)?
- ☐ How much water can be used for cooling?
- ☐ How is maintenance and cleaning achieved and how often, in order to guarantee safe and hygienic operation?
- ☐ How much efficiency can be gained by lowering the process temperature?

about the supplier

- ☐ What is the level of the manufacturer's service and access to original spare parts?
- ☐ Does the manufacturer have the knowledge and experience to understand my application and offer a solution considering all the needs?
- ☐ Can the manufacturer demonstrate compliance with directives and regulations?
- ☐ Who is my contact person for technical and commercial assistance?
- ☐ Are the manufacturer's products produced in a sustainable way?

For more information visit our website at www.BaltimoreAircoil.eu or contact your BAC representative to assist you with the selection, operation and maintenance of your cooling tower installation, to ensure continuous efficiency of your process.



www.BaltimoreAircoil.eu
www.BacSustainability.com
info@BaltimoreAircoil.eu



**BALTIMORE
AIRCOIL COMPANY**

Your local contact :

... because temperature matters™