Optimized for trouble-free industrial operation

TrilliumSeries™
Adiabatic Products

TVC

Adiabatic condenser

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The TrilliumSeries™ Adiabatic Condenser - model TVC has been developed to achieve maximum adiabatic heat rejection, 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.

OPTIMIZED DESIGN

LARGEST ADIABATIC CAPACITY

Maximum thermal performance per m² footprint, with an optimal air distribution over V-shaped coils with maximum heat transfer surface.

Lowest 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.

REDUNDANCY

UNMATCHED DEGREE OF BACKUP CAPACITY

Large amount of fans that provide an unmatched degree of backup capacity.

Optional **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.

Pre-cooler pump recirculation system (optional) provides adiabatic backup guarantee in case of pump failure.

Optimal **controls** guarantee full performance even with loss of controller or communication.

UNRIVALLED RELIABILITY

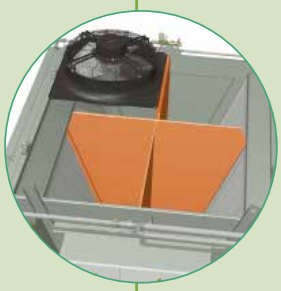
MAXIMUM UPTIME AND LONGEVITY

All structural elements are protected with **Baltibond® hybrid coating,** offering the same reliable life expectancy as stainless steel 304L.

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.

All site specific **parameters are factory set and tested**



All structural elements are protected with **Baltibond® hybrid coating**

Optional **internal partitioning panels** for individual air intake

Critical components fully accessible from the outside during operation

Larger amount of fans for optimal air distribution and backup capacity

Incoming air is cooled **without transferring water to the dry coil**

Pre-cooler pump recirculation system provides guaranteed backup, accessible during operation

LOWEST MAINTENANCE AND EASY INSPECTION

MINIMAL AND EASY MAINTENANCE

All **critical components are easily accessible from the outside** during operation.

Fan motors can be replaced in all **safety**. There is no risk of damage to critical components such as heat exchangers and bottom panels.

Small motors and fans, increasing the ease with which they can be handled during replacement.

Pump maintenance is possible during adiabatic operation.

It is easy to clean the **water distribution system** from the fan deck.

SUPERB HYGIENE

CONTROLLING THE RISK

No aerosol formation, TrilliumSeries™ Adiabatic Condensers model TVC minimize the Legionella distribution risk.

All parts that come into contact with water are fully drainable - no water is stored in the unit during dry operation - so **no continuously wet parts.**

TrilliumSeries™ Adiabatic Condensers cool incoming air **without transferring water to the dry coil.**

PLUG AND PLAY

FACTORY SET CUSTOM CONTROLS

Already more than a decade we provide **proven controls.**

All site specific **parameters are factory set** and tested before the unit is shipped.

Multiple control strategies allow to match any process needs at minimal operating costs.

MORE INFO?

CONTACT YOUR LOCAL BAC REPRESENTATIVE.



Pioneer in adiabatic heat rejection technology and products















WHO WE ARE

BAC is proud to be the world's cooling partner. We create sustainable comfort cooling, process cooling, and refrigeration solutions for the most essential and demanding environments on earth.

INNOVATING TOGETHER

Today BAC still invests time and resources into the design, testing and the efficiency of the adiabatic product range. Since 2005, the R&D team continuously makes design improvements, which are integrated in the actual range of adiabatic products.

As a result **BAC's adiabatic products have a unique and optimized design which is not and has never been comparable to simple air-cooled products extended with pre-coolers** in terms of efficiency and reliability.

SUPPORT IN EVERY STAGE OF YOUR PROJECT

We have **expert engineers** that are driven to help and support you with one common goal in mind: developing and delivering adiabatic cooling products that **fully meet your needs.**

We use specialised software for selecting the most appropriate evaporative and adiabatic cooling equipment and are able to make calculations of the investment an **annual operating costs**.

RELIABILITY

BAC has over **4000 adiabatic products** reliably operating wordwide, all locally supported. That is the result of more than 15 years of adiabatic cooling R&D efforts and independent thermal performance testing.

We run an **inhouse adiabatic production line**, which includes manufacturing of all critical components such as finned block heat exchangers. This ensures a reliable supply chain and a flexible production capacity that meets the needs of any project size.

With over 80 year of evaporative cooling expertise and 10 manufacturing plants worldwide, we have the know-how and **production capacity** available to quickly meet all your cooling needs.

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Sustainability Rating
JAN 2025