



Optimized
for trouble-free
industrial operation



TrilliumSeries™
Adiabatic Products

TRF

Adiabatic cooler



REDUNDANCY

UNMATCHED DEGREE OF BACKUP CAPACITY

Large amount of fans that provide an unmatched degree of back-up capacity and guaranteed redundancy.

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 provides back-up guarantee in case of pump failure.

The fans remain operational even in the event of loss of PLC signal.



OPTIMIZED DESIGN

DECADES OF EXPERIENCE

Short gutter sections with diamond pattern holes and with centre pump ensure an **optimal water distribution**.

Easy access to the operational parameters on a large touchscreen so the **main electrical panel can remain closed**.

Low sound and low electrical power consumption with specifically selected fans.



LOWEST MAINTENANCE AND EASY INSPECTION

MINIMAL AND EASY MAINTENANCE

All **critical components are easily accessible from the outside** during operation via optional pad doors.

Pump maintenance is possible during adiabatic operation.

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

It is easy to clean the **water distribution system** from the light weight mobile work platform.

TRF

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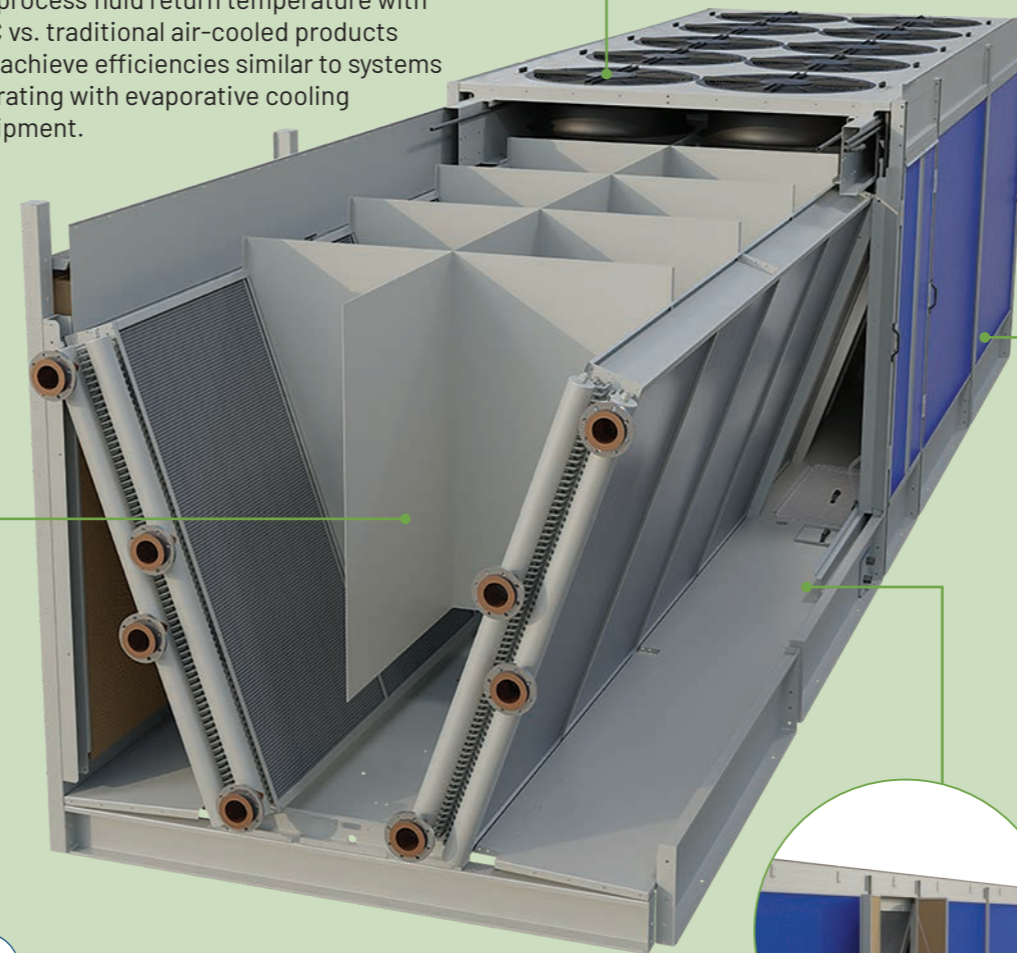
The TrilliumSeries Adiabatic Cooler - model TRF has been developed to achieve maximum adiabatic cooling. They are designed to offer year round reliable industrial operation meeting the highest degree of redundancy. Users can reduce the process fluid return temperature with 10°C vs. traditional air-cooled products and achieve efficiencies similar to systems operating with evaporative cooling equipment.

Units with **pump recirculation** on the adiabatic pre-coolers have **water supply at the top** of the pads, providing guaranteed back-up in case of pump failure



Fans remain operational even in the event of loss of PLC signal

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



Special anti-abrasive protection on the pads ensures their durability

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

Optional **sealed bottom** to capture fluids, guiding them towards the unit sump with drain connection

Critical components fully accessible from the outside during operation through **pad doors** (optional)

Pump maintenance possible during adiabatic operation

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



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 ensures their durability under harsh conditions.

Epoxy coating (optional) on the coils increases the resistance against a humid environment, high chlorides and other corrosive agents.

Incoming air is cooled **without transferring water to the finned block heat exchangers** - preventing uncontrolled fouling, algae and corrosion - optimizing the thermal capacity at all times.



SUPERB HYGIENE

CONTROLLING THE RISK

No aerosol formation, TrilliumSeries™ Adiabatic Coolers model TRF 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, minimizing the uninhibited Legionella bacterial growth: **no continuously wet parts**.



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.

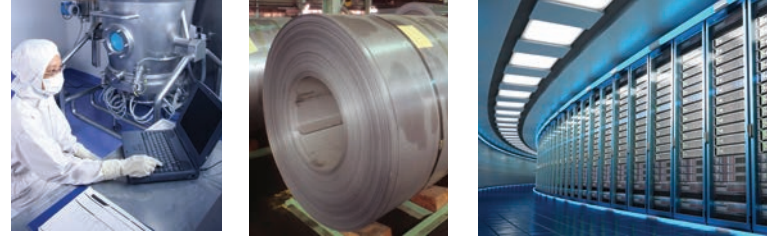
Multiple control strategies allow to match any process needs at minimal operating costs.

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 and **annual operating costs**.

RELIABILITY

BAC has over **4000 adiabatic products** reliably operating worldwide, 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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