TrilliumSeries Adiabatic Cooler

Model JVFC











Key benefits

- Largest adiabatic capacity
- Highest degree of redundancy
- Unrivalled reliability

TVFC cooler characteristics

Counter flow, adiabatic pre-cooling, axial fan, induced draft

Capacity range

280 - 1100 kW

Maximum entering fluid temperature

60°C

Typical applications

- Small to medium HVAC and industrial applications
- Locations with limited water and space availability
- High temperature industrial applications

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.
- Optional internal partioning panels create individual air intake ducts for each fan, which **eliminates thermal performance loss** due to the air bypassing the coil through an idle fan.
- The optional pre-cooler pump recirculation system with **adiabatic back up guarantee** (patent pending) 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 in <u>Baltibond hybrid coating</u>, 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 (optional) on the coil fins **increases the resistance** against a humid environment, high chlorides and other corrosive agents.

Saving water

• TrilliumSeries coolers **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.**

Interested in the TVFC TrilliumSeries cooler to cool your process fluid? Contact your local <u>BAC representative</u> for more information.

Downloads

- <u>TVFC TrilliumSeries Cooler</u>
- <u>TVFC TrilliumSeries Cooler (brochure)</u>
- Operating and maintenance TVFC
- <u>Rigging and installation TVFC</u>
- Spare Parts for TVFC
- Why should you buy BAC adiabatic products?