



Adiabatic Cooler - Model TRF

Adiabatic cooling



Key benefits

- Redundancy
- Optimized design
- Lowest maintenance and easy inspection



TrilliumSeries Adiabatic Cooler - model TRF characteristics

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

Capacity range

350 - 1600 kW

Maximum entering fluid temperature

60°C

Typical applications

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



Redundancy

- **Large amount of fans** that provide an unmatched degree of **backup capacity** and guaranteed redundancy.
- Optional **internal partitioning panels** create individual air intake ducts for each fan, **eliminating thermal performance loss** due to air bypassing the coil through an idle fan.
- Pre-cooler pump recirculation system with **adiabatic backup guarantee** in case of pump failure.
- **Optimal controls** guarantee full performance even with loss of controller or communication.

Optimized design

- Short gutter sections with diamond pattern holes and with pump distribution from the middle ensure an **optimal water distribution**.
- Separate panel with PLC interface.

Lowest maintenance and easy inspection

- **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. **No risk of damage to critical components** such as heat exchangers and bottom panels.
- Pump **maintenance is possible during adiabatic operation** through large access doors in the pre-cooler.
- **Easy cleaning** for the water distribution system from the fan deck.

Unrivalled reliability

- 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.

Superb hygiene

- Without aerosol formation, TrilliumSeries Adiabatic Coolers- model TRF **minimize the Legionella risk**.
- 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.
- TrilliumSeries Adiabatic Coolers - model TRF cool incoming air without transferring water to the dry coil, **preventing possible uncontrolled algae growth and corrosion**.

Plug and Play



- Already for 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.

Interested in the TrilliumSeries Adiabatic Cooler - model TRF to cool your process fluid?

Contact your local [BAC representative](#) for more information.

Downloads

- [TrilliumSeries Adiabatic Cooler - Model TRF \(brochure\)](#)
- [Spare Parts for TrilliumSeries adiabatic cooler - Model TRF](#)
- [Operating & Maintenance TRF](#)
- [Rigging & Installation TRF](#)