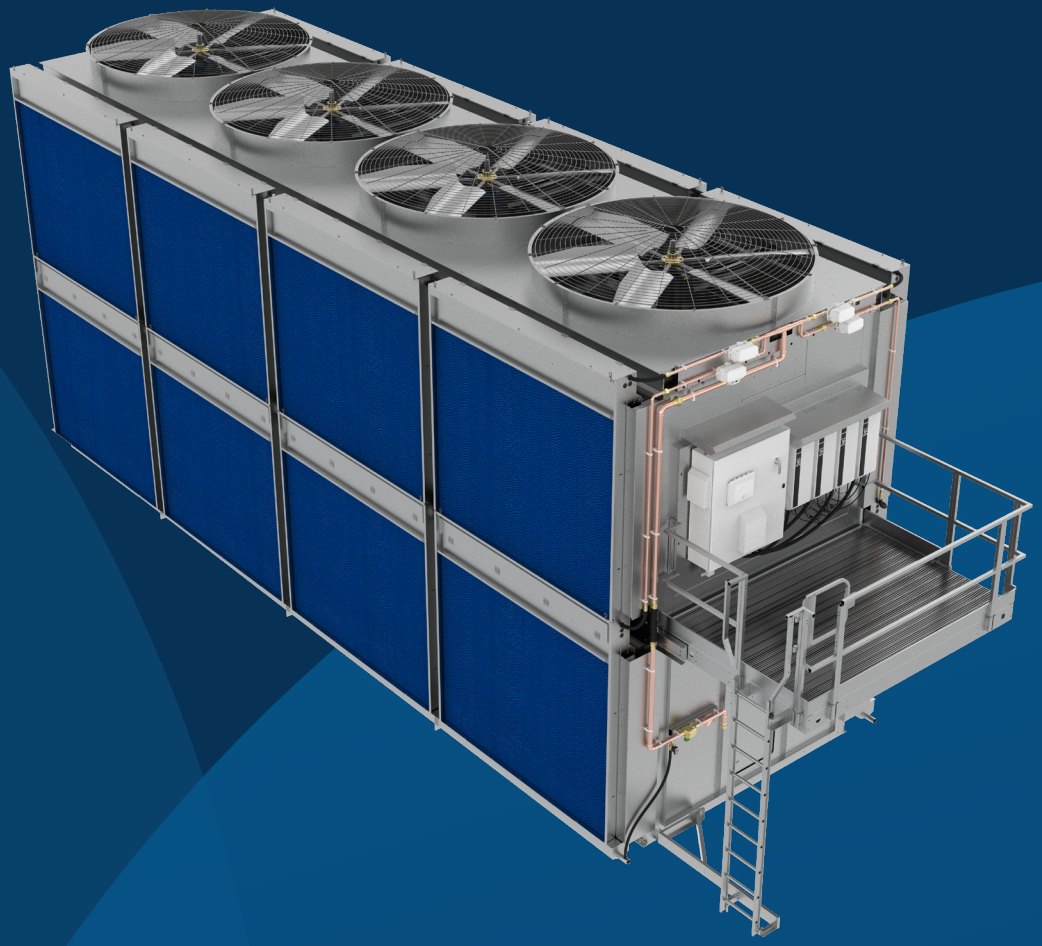
Trillium™ Adiabatic Cooler TRFS



Trillium™

Maximize compute. Minimize water. Deploy with certainty.

The **Trillium™ Adiabatic Cooler TRFS** combines BAC's proven adiabatic design with patented intelligent controls to deliver an added performance boost when dry cooling alone may not be enough. Backed by thousands of adiabatic installations worldwide, the TRFS helps data center operators achieve lower fluid temperatures, reduce peak power demand and PUE, minimize water consumption, and increase free cooling opportunities.

Why Adiabatic?

- Meet design day requirements without oversizing chillers or infrastructure
- Enable lower fluid temperatures required for high-density chips
- Reduce peak power demand by minimizing compressor reliance and maximizing free cooling
- Mitigate air recirculation impacts and preserve cooling capacity in large deployments

Deploy Faster

BUILT FOR HYPERSCALE TIMELINES

- Proven ability to meet aggressive build schedules
- Global manufacturing and redundancy
- Reliable lead times and delivery execution
- Pre-configured design reduces engineering cycles
- In operation at multiple hyperscale and colocation data centers

Minimize Water Use

USE WATER ONLY WHEN NEEDED

- Designed for low annual water consumption
- Configurable to meet application priorities
- Helps address key site considerations such as: water-constrained locations, permitting challenges, and sustainability commitments

Scale Efficiently

MORE CAPACITY WITH FEWER UNITS

- Larger capacity per unit vs. dry coolers
- Fewer units mean fewer electrical, piping, and structural connections
- Lower layout complexity and installation time
- Optimized for modular central utility plant (MCUP) deployments

Enable Design Flexibility

ADAPTS TO EVOLVING COOLING STRATEGIES

- Supports water-cooled chiller and chiller-less designs
- Allows for chiller downsizing or elimination
- Integrates with direct-to-CDU cooling strategies
- Extends free cooling and reduces compressor dependence

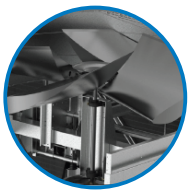
Fit Real-World Sites

DESIGNED FOR NOISE, SPACE, AND LAYOUT CONSTRAINTS

- Meets strict sound requirements with optional Whisper Quiet™ fans
- Automatic night-quiet operation
- Lower steel support requirements vs. alternatives
- Supports dense site layouts without compromising performance

Adiabatic Pre-Cooling System

- Factory-installed pads with protective coating for longevity
- Wetted pads provide high-efficiency pre-cooling when needed
- Smart controls balance energy and water use



Multiple Fans, Motors, and Drives

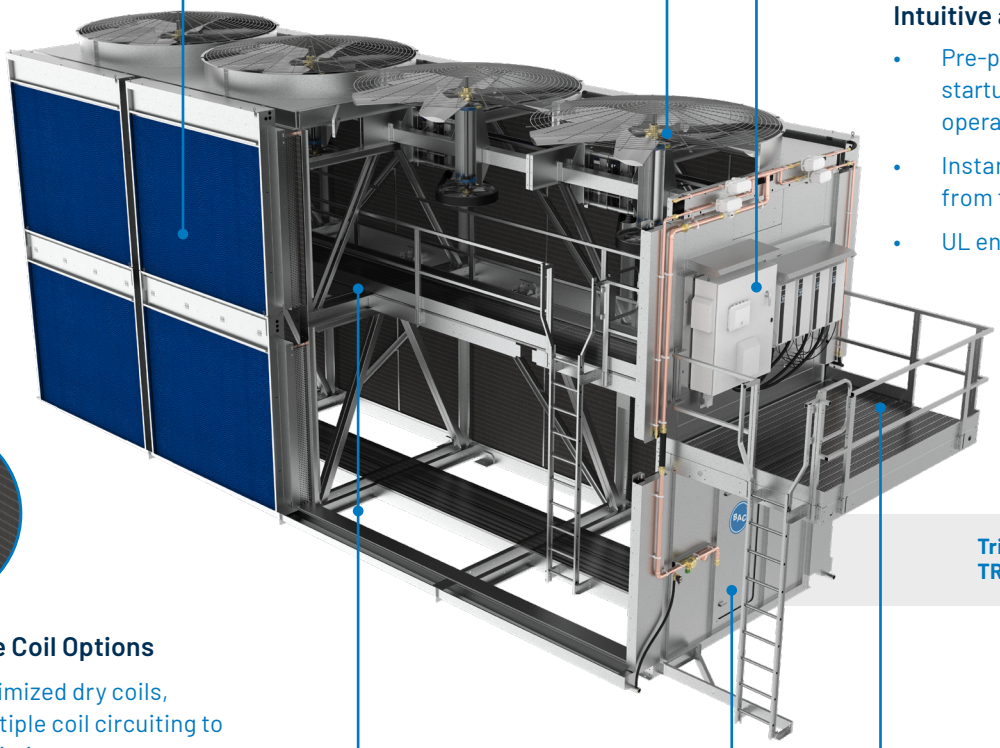
- Built-in redundancy for reliable cooling

Whisper Quiet™ Fans (Optional)

- Reduces sound by up to 13 dBA

Intuitive and Intelligent Controls

- Pre-programmed for fast startup and automated operation
- Instant troubleshooting from the control panel
- UL enclosure



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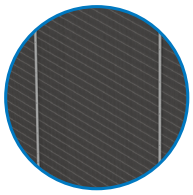


Multiple Coil Options

- Optimized dry coils, multiple coil circuiting to minimize system energy cost
- Designed for water, propylene glycol, and ethylene glycol

Large Access Door

- Provides easy entry for serviceability

External Platform

- Pre-assembled, provides access to control panel HMI components

Upper and Lower Internal Service Platforms

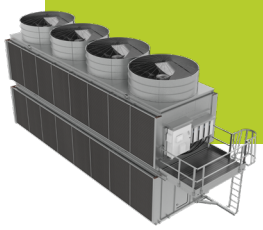
- Easy access to all drive components for maintenance

Single-End Coil Connections

- Reduce installation time

Also Available as a Dry Cooler

Explore the Trillium® Dry Cooler for water-free operation.

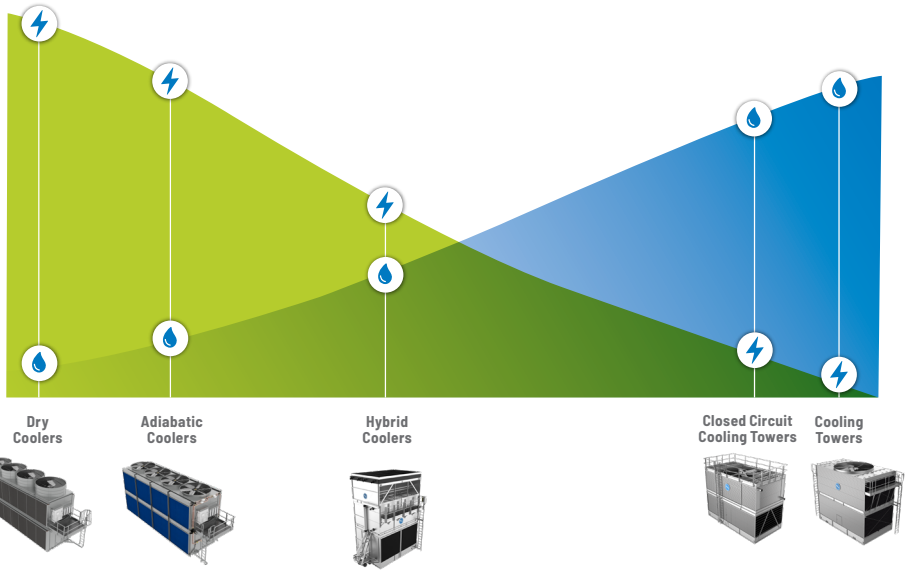


Available Options to Meet Your Application Needs

- Steel support installation
- Access door platform
- Coated fins for enhanced corrosion protection
- Various models to meet site-specific requirements

The Industry's Most Comprehensive Portfolio

Lowest Water Usage



Lowest Energy Usage

10+
Manufacturing Facilities
Global Standards, Local Manufacturing

1,000+
Patents
Cooling Solutions, Patented Worldwide

150+
Global Sales Network
Expert Care, Committed Personally

85+
Years, Est 1938
Sustainable Philosophy, Global Responsibility

About BAC

BAC is proud to be the world's cooling partner. Since 1938, BAC has created sustainable comfort cooling, process cooling and refrigeration solutions for essential and demanding environments around the world. The company serves customers across industrial processes, HVAC, industrial and commercial refrigeration, data centers and other infrastructure markets. BAC designs and manufactures heat transfer and thermal management equipment, including cooling towers, condensers, hybrid, adiabatic and dry products and related technologies, helping customers achieve long-term performance, reliability and environmentally responsible outcomes.

IBC Compliant

Scan here to learn more:

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