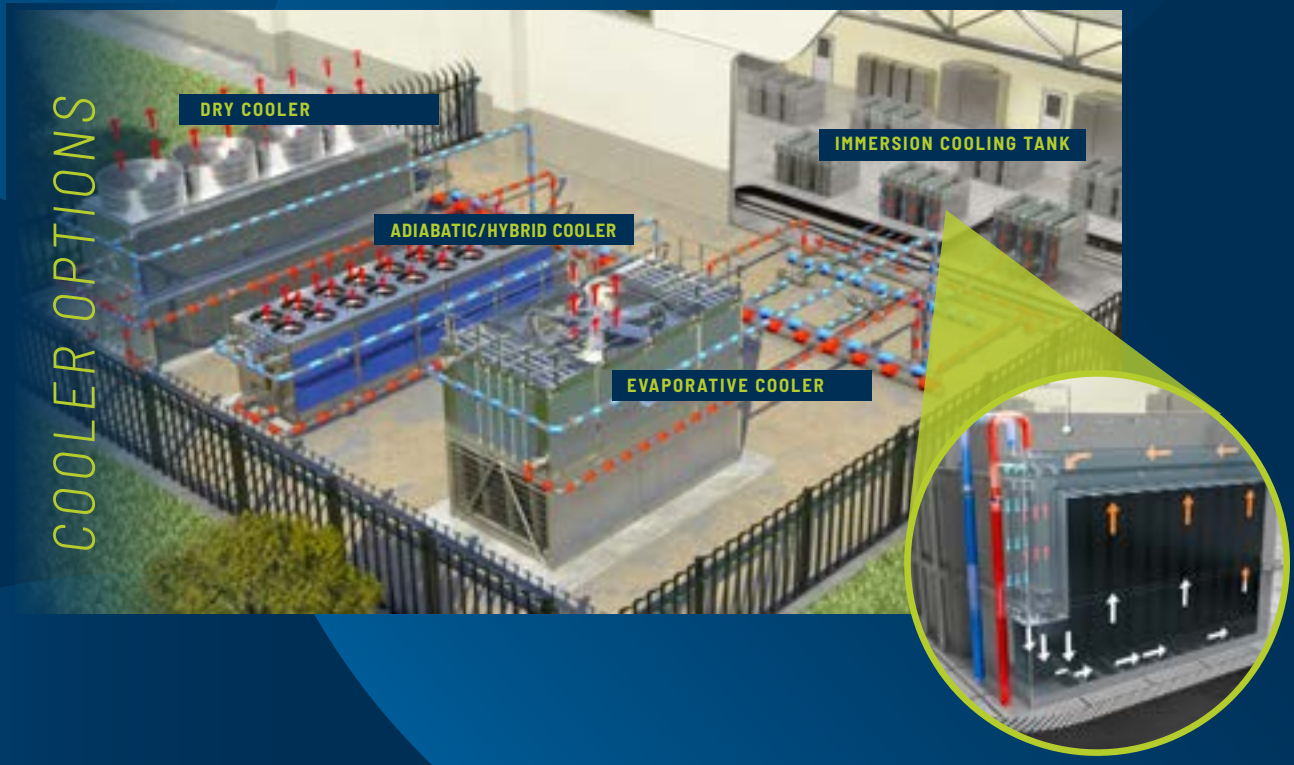
COBALT™

immersion cooling system



Lowest PUE Solution for Data Centers

CorTex™ technology

COMPLETE OUTDOOR & INDOOR COOLING SYSTEM FOR HIGH DENSITY COMPUTING

COBALT™ immersion cooling system

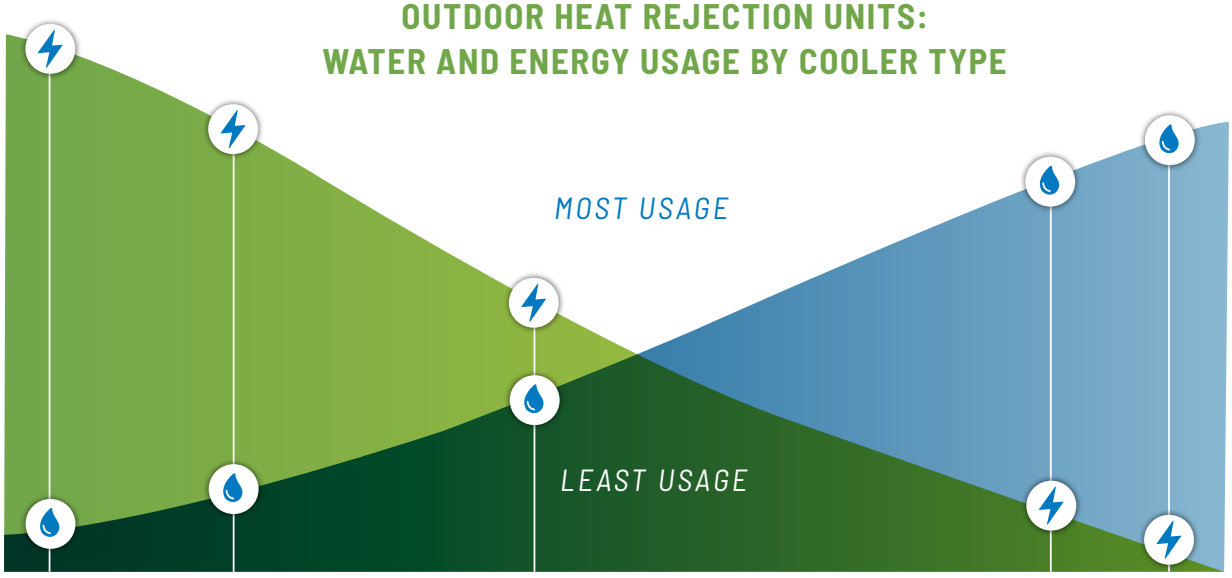
BAC's COBALT™ Immersion Cooling Systems for Data Centers combine a wide range of heat rejection technologies with immersion cooling tanks. This enables scalable high-density computing with sustainable and reliable operation for data centers, solving the cooling challenges of tomorrow, today.



OUTDOOR: HEAT REJECTION TECHNOLOGIES

Each BAC cooler offers a unique balance between Power Usage Effectiveness (PUE) and Water Usage Effectiveness (WUE), providing options to meet site specific goals. The complete BAC cooling system protects the servers while optimizing data center performance and operating cost.

OUTDOOR HEAT REJECTION UNITS: WATER AND ENERGY USAGE BY COOLER TYPE



DRY COOLER

Use air to reject heat, **no need for water** to cool indoor spaces

ADIABATIC COOLER

During the hottest days, **small amounts of water** are used to pre-cool air to save energy

HYBRID COOLER

With **both evaporative & dry capabilities,** this solution offers sites a balance of water and energy usage

EVAPORATIVE COOLER

CLOSED CIRCUIT COOLING TOWERS

Keep the system clean and contaminant-free in a closed loop while **using evaporative cooling**

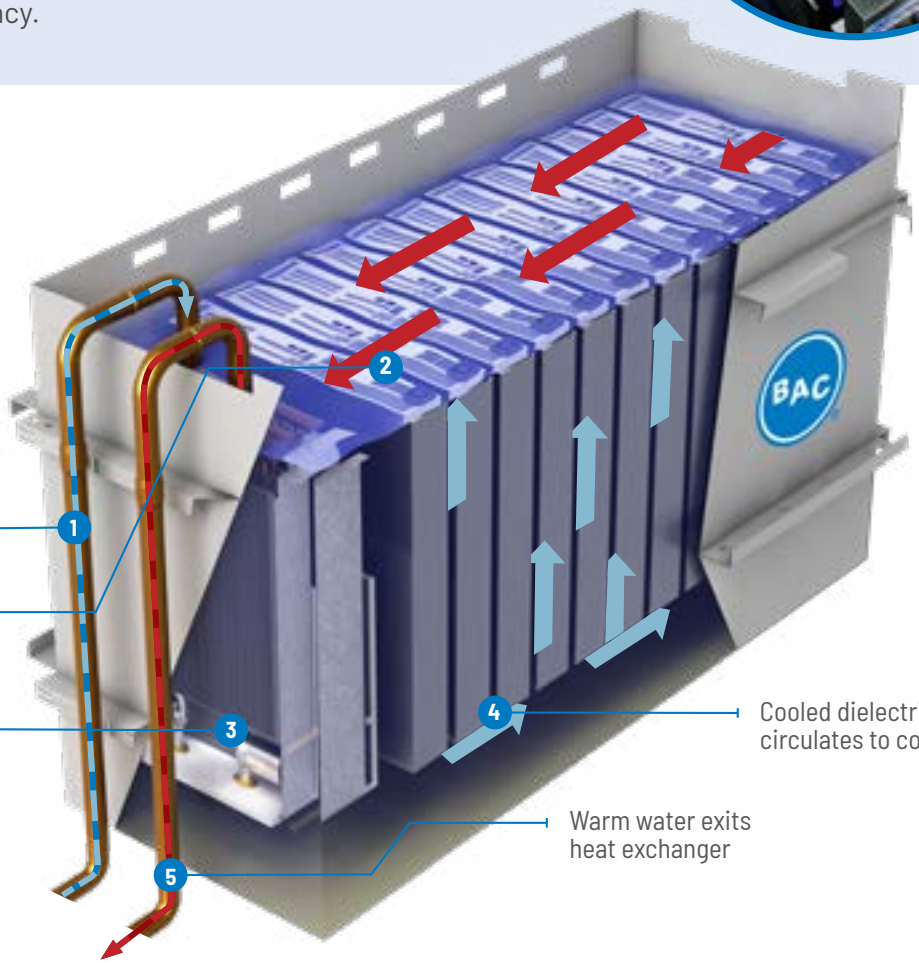
OPEN COOLING TOWERS

Water flows directly over the heat transfer surface **saving energy**

INDOOR: PATENTED IMMERSION COOLING TANK WITH CORTEX™ TECHNOLOGY

With the rapid growing demand for data centers, facilities are requiring the most advanced and sustainable cooling solutions on the market. BAC delivers patented and proven immersion cooling technology to cool servers, which have remarkable scalability and maximum energy efficiency.

CorTex™ technology



1. Cold cooling water enters heat exchanger
2. Warm dielectric cooling fluid from tank cooled by heat exchanger
3. Pump circulates dielectric cooling fluid in tank
4. Cooled dielectric cooling fluid circulates to cool servers
5. Warm water exits heat exchanger

ENERGY EFFICIENCY

- Up to 51% less overall energy than traditional designs
- Lowest PUE <1.05
- Patented Cortex™ Technology with heat exchanger submerged allows for highest efficiency of heat transfer

MINIMAL MAINTENANCE & REDUCED COST

- No filter, no dust

HIGHEST RELIABILITY

- Eliminates common failure points extending server life
- Eliminates chiller, air handlers, refrigerant
- No penetrations in tank below fluid level

SCALABILITY

- Supports server rack density increases for future expansion in a compact space

BAC has unmatched experience providing specialized engineered support and design to address the most challenging applications.

WHY BAC?

BAC is proud to be the world's cooling partner. Since 1938, we have been creating sustainable data center cooling, comfort cooling, process cooling, and refrigeration solutions for the most essential and demanding environments on earth. From pioneering cooling products to leading the industry toward a better tomorrow, BAC innovates for the future, so we can all advance together.

EMPOWERING DATA CENTER PERFORMANCE

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in Operation

1,000+
DATA CENTERS
in Operation

950+
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10
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