

HYBRID COOLER



Nexus[®] Modular Hybrid Cooler

featuring PuriStream[™] Water Treatment System and UV Light



NEXUS[®]
MODULAR HYBRID COOLER

 **PuriStream**[™]

**Ideal for
constrained
spaces**

**New improved
water treatment
system**

**New intelligent
touchscreen
controls**

Cooling reimaged for a smarter balance.

The Nexus® modular hybrid cooler equipped with PuriStream™ water treatment system and UV light maintains water quality without reliance on liquid chemical treatment typically used to prevent biological contamination.¹ Shattering what you know about traditional fluid coolers, it can automatically optimize water and energy savings while delivering lowest installation and operating costs, maximum uptime and best water quality.



Lowest Operating Costs

30% REDUCTION IN OPERATING COSTS²

- Up to 50% water savings and 40% energy savings with the intelligent control system
- Reduction in spray water volume by up to 60% and reduced water treatment costs with the DiamondClear® Design
- Eliminates sanitary sewer charges associated with traditional water treatment discharge¹



Lowest Maintenance

90% REDUCTION IN MAINTENANCE COSTS²

- Minimize scale build-up and biological growth with self-cleaning mode, patented water control sequence, and the DiamondClear® design
- All inspection points reachable from grade eliminating the need for permanent ladders or elevated platforms
- No regular drive maintenance required with direct-drive EC Fan System



Lowest Installation Cost

35% REDUCTION IN INSTALLATION COSTS³

- Factory-wired components and controls with BMS communication
- Higher unit capacity means fewer units requiring less space, steel support, field piping and wiring²
- Fast installation with single point wiring, coil connections on a single end, and no need for a separate heat exchanger
- Compact design for constrained spaces, including indoors



Maximum Uptime

UNMATCHED RELIABILITY AND LONGEVITY

- Instant troubleshooting directly from the control panel
- Redundant EC fan system reduces unplanned downtime
- Fastest inspection of spray water basin while the unit is in operation
- Corrosion resistant, premium materials are standard



Best Water Quality¹

PREVENT, INHIBIT, AND REMOVE BACTERIA

- Maximum safety and hygiene with on-demand biocide generation, balanced dosage control, and UV light
- Turbulent water flow prevents stagnant water in the system
- Optional daily drain of spray water basin to purge debris and bacteria
- No sweeper piping and side-stream filtration required

1. **Disclaimer:** Water quality performance is dependent upon an owner's strict adherence to all proper maintenance and operating procedures and BAC's water quality guidelines. Additionally, periodic water testing may be required to meet ASHRAE Standard 188/Guideline 12 (and/or ASSE 12080) as well as local regulations.

2. Comparisons based on the Nexus® Cooler vs. traditional centrifugal fan fluid coolers.

3. Reduction in installation costs based on 100 ton heat pump installation in Baltimore, MD.

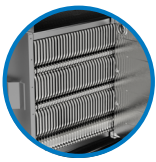


PuriStream™ Water Treatment System and UV Light¹

- On-demand in-situ oxidant generator delivers balanced dosage control and disinfects the water circulating through the basin
- Additional UV light further controls biological growth and scale
- Supports improved system uptime, cleaner heat transfer surfaces, and reduced maintenance with no dependence on drum-based chemical systems

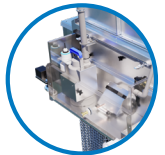
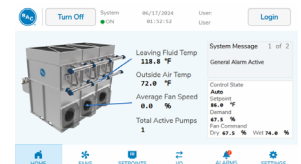
hCore® Heat Transfer Technology

- Corrosion-resistant 316 stainless steel for greater heat transfer surface
- Unmatched thermal performance, reliability, and long life in a compact package with no passivation required



Intuitive and Intelligent Controls

- Pre-programmed for fast startup and automated operation; UL certified; instant troubleshooting from the control panel
- Minimize operating costs by balancing water and energy savings



DIAMONDclear® Design

- 60% less water volume, turbulent water flow, and can be inspected while in operation
- High performance spray resists clogging and delivers optimum water coverage or reduced scaling
- Convenient external access to the basin and critical components—including pumps and make-up systems—simplifies inspection, maintenance, and service

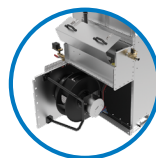
Modular Design

- Flexible and robust design for confined layouts and indoor installations
- Lightweight and compact modules can be maneuvered with a pallet jack and fit into most elevators



EC Fan System

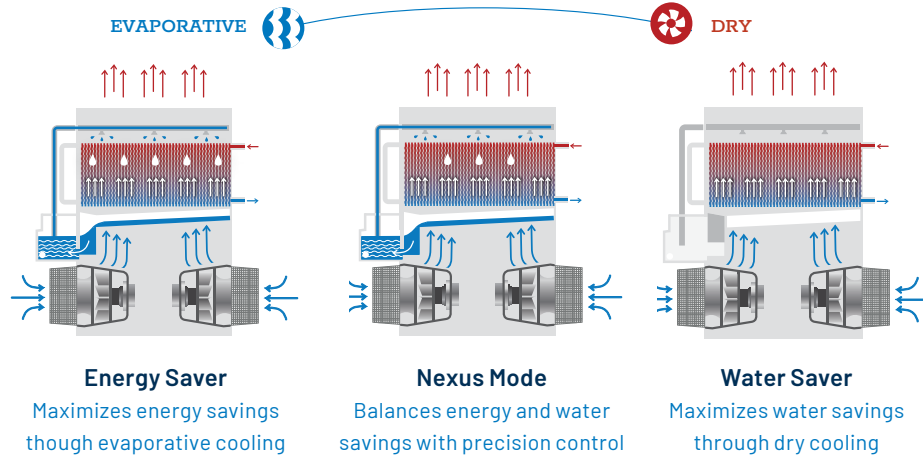
- Simple design for lowest maintenance, easiest access and maximum efficiency
- Includes a direct-drive radial fan and a variable-speed EC motor



More info?
Contact your local
BAC representative.



Modes of Operation



Available Options to Meet Your Application Needs

- Non-combustible construction for local code compliance
- Intake & discharge sound attenuation to further reduce sound levels
- Tapered discharge hood to elevate air discharge, increase air discharge speed, or reduce plan area for indoor ducting
- Positive closure dampers to reduce heat loss from heat pump loops during winter months



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 we have been creating sustainable comfort cooling, process cooling, and refrigeration solutions for the most essential and demanding environments on earth. From pioneering adiabatic cooling products to leading the industry toward a better tomorrow, BAC innovates for the future, so we can all advance together.



**Up to 200
Nominal tons**

Scan here to
learn more:



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