



NEXUS[®]

MODULAR HYBRID COOLER

NEW! Enhanced Water Management, Acoustics, and Code Compliance



WHAT'S
NEXT
IN HYBRID
COOLING

HYBRID



Nexus® Modular Hybrid Cooler

The revolutionary Nexus® Modular Hybrid Cooler is the world's first intelligent, plug-and-play, modular hybrid fluid cooling system for HVAC and light industrial applications. Shattering what you know about traditional hybrid fluid coolers, it can automatically optimize water and energy savings while delivering the lowest installation costs, lowest operating costs, maximum uptime, lowest maintenance costs, and best water quality in a simplified, compact, and lightweight design.



SIMPLIFIED SYSTEM DESIGN

15% REDUCTION IN SYSTEM COSTS^[1]

- No need for a separate heat exchanger or controls
- Reduced water treatment requirements, with no sweeper piping and side-stream filtration required^[3]
- Compact design for constrained spaces, including indoors



LOWEST INSTALLATION COSTS

35% REDUCTION IN INSTALLATION COSTS^[2]

- Flexible shipping options to fit modules into a freight elevator
- Reduced installation cost, time, and risk with:
 - Up to 35% less weight, 40% smaller footprint, 8' lower height
 - Single point wiring for all standard electrical components
 - Immediate startup with no need for field passivation



LOWEST OPERATING COSTS

30% REDUCTION IN OPERATING COSTS^[1]

- Up to 50% water savings and 40% energy savings with the **iPilot® Control System**
- Reduction in spray water volume by up to 60% and reduced water treatment costs with the **DiamondClear® Design**^[3]
- Superior efficiency with a direct-drive, variable-speed **EC Fan System**



MAXIMUM UPTIME

UNMATCHED RELIABILITY AND LONGEVITY

- Corrosion-resistant, premium materials are standard
- Fan and motor redundancy reduces unplanned downtime
- EC motor and direct-drive fan system provide the greatest reliability
- Fastest inspection of spray water basin while the unit is in operation



LOWEST MAINTENANCE

90% REDUCTION IN MAINTENANCE COSTS^[1]

- Significantly reduced spray water basin maintenance costs with the Patent-Pending **DiamondClear® Design** by minimizing scale build-up and biological growth^[3]
- Best-in-class safety; no need for permanent ladders or elevated platforms to perform routine maintenance
- No regular drive maintenance required with direct-drive **EC Fan System**



BEST WATER QUALITY

PREVENT, INHIBIT, AND REMOVE BACTERIA

- Turbulent design prevents stagnant water in the system
- Optional daily drain of spray water basin to purge debris and bacteria
- Optional **UV System** minimizes bacterial growth, integrates with your water system enhancing health and safety

Modules are Easily Maneuvered with a Pallet Jack



Modules can be Easily Added to Increase Capacity



Spray Water Basin at Workbench Height Allows for Fastest Access

For design, technical information, cost of ownership and more, locate your Sales Rep at BALTIMOREAIRCOIL.COM

Notes:

1. Percentage comparisons based on the Nexus® Cooler vs. traditional centrifugal fan fluid coolers.
2. Reduction in installation costs based on 100 ton heat pump installation in Baltimore, MD.
3. Consult your local water treatment expert for your specific system's needs.



Nexus[®] Modular Hybrid Cooler

INNOVATIVE DESIGN FEATURES

you won't find anywhere else

P iCore[®] Heat Transfer Technology

Using a highly corrosion-resistant stainless steel alloy and greater heat transfer surface, it provides unmatched thermal performance, exceptional reliability, and long life in an incredibly compact package.

PP DiamondClear[®] Design

This innovative design significantly cuts maintenance costs. The spray water basin has 60% less spray water volume, has turbulent spray water flow, and can be inspected while in operation. The high-performance spray resists clogging and delivers proper water coverage for reduced scaling.



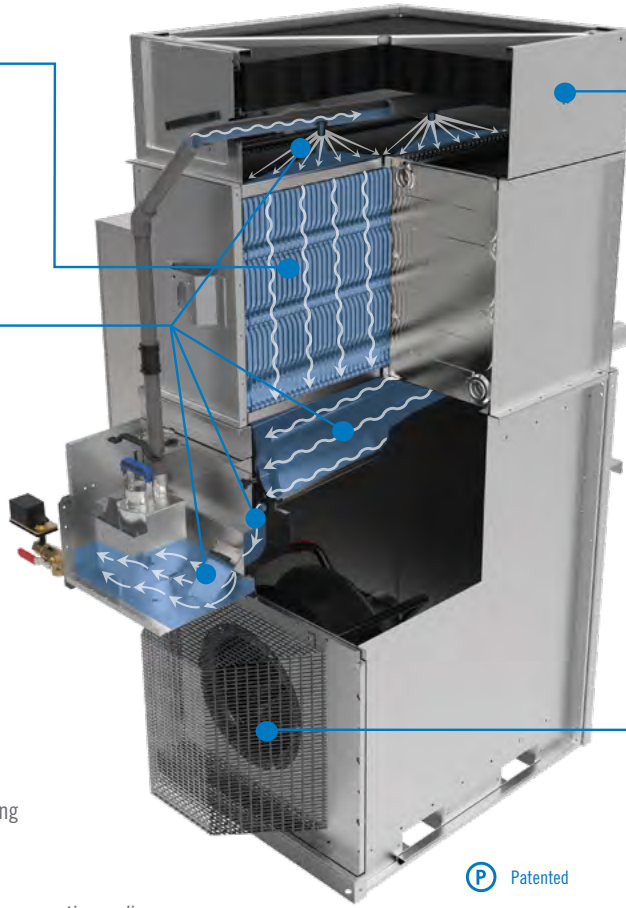
PP iPilot[®] Control System

Minimizes operating costs by effectively balancing water and energy savings based on your needs and preferences with three modes of operation:

ENERGY SAVER Maximizes energy savings through evaporative cooling

WATER SAVER Maximizes water savings through dry cooling

NEXUS Balances energy and water savings to fit your needs



Modular Design

Its flexible, robust design is ideal for confined layouts and indoor installations. The lightweight, compact modules can easily be maneuvered with a pallet jack and fit into most freight elevators.



UV System (Optional)

Optional UV system reduces bacterial growth for best water quality. Factory installed UV lamp, intensity sensors, and recirculating pump wired into the iPilot[®] Control System.



EC Fan System

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



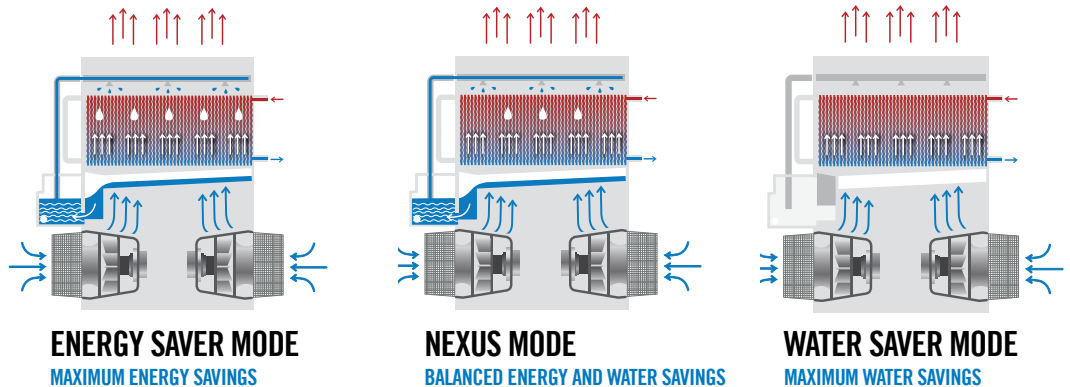
P Patented

PP Patent Pending

AVAILABLE OPTIONS TO MEET YOUR APPLICATION NEEDS:

- **Non-combustible construction** for local code compliance
- **Intake and 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
- **UV System** reduces bacterial growth providing best water quality enhancing health and safety

MODES OF OPERATION





Nexus[®] Modular Hybrid Cooler

THE BEST CHOICE

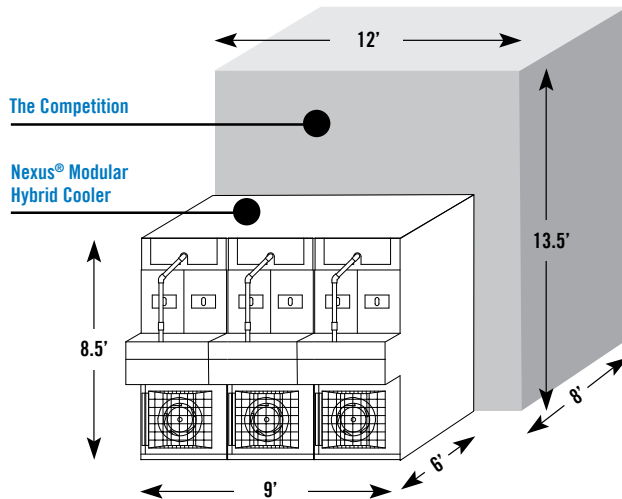


ADVANTAGE NEXUS[®]!

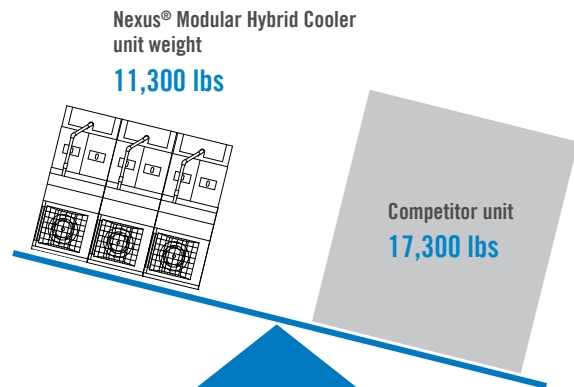
	Competitors' Centrifugal Fan Fluid Cooler	Nexus [®] Modular Hybrid Cooler	
L x W x H	12' x 8' x 13.5'	9' x 6' x 8.5'	40% SMALLER FOOTPRINT, 5' SHORTER
Operating Weight	17,300 lbs	11,300 lbs	35% LESS WEIGHT
HP (Fan + Pump)	30 + 3 HP	22.5 + 1.5 HP	25% LESS FAN HP, 50% LESS PUMP HP
Process Fluid Volume	332 gal	117 gal	65% LESS FLUID VOLUME
Spray Basin Volume	212 gal	90 gal	60% LESS WATER VOLUME
Heat Exchanger	Galvanized Steel	Stainless Steel	CORROSION-RESISTANT, ZERO PASSIVATION
Unit Construction	Galvanized Steel	Thermosetting Hybrid Polymer/ Stainless Steel	HIGHER CYCLES OF CONCENTRATION

Note: Selections are based on cooling 270 gpm water from 95°F to 85°F at 78°F wet bulb. Consult your local water treatment specialist.

40% Smaller Footprint



35% Lighter Weight



ASSURED PERFORMANCE

The Nexus[®] Modular Hybrid Cooler was subjected to a rigorous qualification process to ensure corrosion resistance, longevity, and reliability. It also complies with a number of industry specifications, as well as independent certification from the Cooling Technology Institute (CTI).

