NEW! Enhanced Water Management, Acoustics, and Code Compliance

WHAT’S NEXT IN HYBRID COOLING
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
- No need for a separate heat exchanger or controls
- Reduced water treatment requirements, with no sweeper piping and side-stream filtration required
- Compact design for constrained spaces, including indoors

**LOWEST INSTALLATION COSTS**
35% REDUCTION IN INSTALLATION COSTS
- 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
- 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
- Superior efficiency with a direct-drive, variable-speed EC Fan System

**LOWEST MAINTENANCE**
90% REDUCTION IN MAINTENANCE COSTS
- Significantly reduced spray water basin maintenance costs with the Patent-Pending DiamondClear® Design by minimizing scale build-up and biological growth
- 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

**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

**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

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

MODAL DESIGN FEATURES

MODES OF OPERATION

Energy Saver Mode
Maximum Energy Savings

Nexus Mode
Balanced Energy and Water Savings

Water Saver Mode
Maximum Water Savings

mCore® 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.

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.

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

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

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.
**Nexus® Modular Hybrid Cooler**

**THE BEST CHOICE**

### Comparing Competitors’ Centrifugal Fan Fluid Cooler with Nexus® Modular Hybrid Cooler

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

**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.

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### 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).

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**40% Smaller Footprint**

**35% Lighter Weight**

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**Nexus® Modular Hybrid Cooler**

- Unit weight: 11,300 lbs

**Competitor unit**

- Unit weight: 17,300 lbs