

motivair[®]
COOLING SOLUTIONS



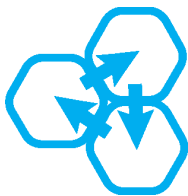
HDU heat
dissipation
unit™

OUR BUSINESS IS COOLING YOURS™

motivaircorp.com



COMPREHENSIVE COOLING FOR YOUR DIGITAL WORLD



APPLICATION

On-Chip Cooling,
High-Performance Cooling,
and Direct Liquid Cooling



HEAT DISSIPATION

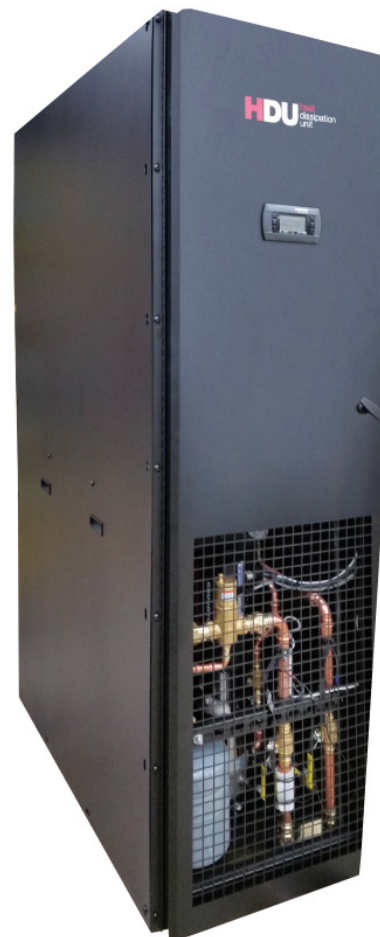
Dissipates heat up
to 100 kW

Key Reasons to Use a Motivair® HDU™

- Convert liquid cooled computer system to air-cooled by rejecting heat to room
- Location of liquid cooled system prevents water from being plumbed to the computers
- Chilled or cool water is not available at the site

CUSTOM OEM SOLUTIONS

Motivair offers flexible designs for unique liquid cooling applications and IT densities with varying heat loads, including custom solutions for OEM customers.



From Liquid-Cooled to Air-Cooled IT

Many modern High Performance Computer (HPC) systems are being designed to be liquid cooled. These computers circulate a fluid to and from the computer's CPU and GPU chips, removing heat and rejecting it to a dedicated building chilled water plant. In the absence of available building cooling water, the heat from the computer cooling system must be rejected to air, a process that can now be facilitated by Motivair's Heat Dissipation Unit™ (HDU).

The Motivair HDU is connected directly to the computer cooling loop and sits adjacent to or in close proximity to the computer racks. Circulation pumps located inside the HDU move hot water from the computer system to the HDU's air-cooled heat exchanger. High-efficiency EC fans draw cool room air across the HDU's internal heat exchanger, removing heat from the computer cooling system. A high-powered PLC controls and monitors all aspects of HDU performance ensuring the HPC system can operate within thermal specifications and without dependence on a building water supply.

SPECIFICATIONS

| Models | MHDU 350 | MHDU 600 |
|--------------------------------|-------------|---------------------------------|
| MHDU Dimensions (in): | | |
| Height: | 80 | 84 |
| Width: | 18 | 24 |
| Depth: | 49 | 57 |
| Nominal Cooling Capacity (kW): | 62 | 119 |
| Piping Size (IN) | 1" | 1" |
| Nominal Flow Rate (GPM) | 16 | 31 |
| Max Flow Rate (GPM) | 23 | 44 |
| Piping Type | Non-Ferrous | Non-Ferrous |
| Electrical | 230/1/50-60 | 208, 230, 460, 575/3/60 380/3/5 |

* Building Air Supply @75F; Supply/Return Water @ 140F/113F

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COOLANT DISTRIBUTION UNIT (CDU)

A CDU provides the ability to deploy higher density, load diverse IT equipment in a smaller footprint while at the same time improving a facility's overall efficiency (PUE) and life expectancy. The CDU provides 100% sensible cooling up to 1.25MW, depending on the model. For use with the ChilledDoor[®] or other IT cooling systems.



DYNAMIC COLD PLATE™

Motivair's Dynamic Cold Plate™ harnesses innovative fluid dynamics to redefine direct liquid cooling. Our patent pending technology enables robust performance without the use of skived microchannels. It allows CPUs and GPUs to operate at peak performance while reducing the possibility of cooling degradation and costly system failures.



SERVICE & MAINTENANCE PROGRAM

Motivair[®] provides customer-focused service and support for your mission critical equipment. We offer site surveys, installation services, Level III Commissioning support, service agreements, and extended warranties on parts.



CHILLED DOOR[®] RACK COOLING SYSTEM

Advanced server rack cooling system fits any standard or OEM computer rack. Removes up to 75 kW of server heat per door.



MODULAR DATA CENTER

Backed by our ChilledDoor[®] and Coolant Distribution Unit (CDU) technology, our Modular HPC Data Center can accommodate power densities of up to 75 kw/rack in air cooled systems and 150 kw/rack for modern liquid-cooled supercomputers and HPC clusters. Each system can be equipped with Motivair's integrated Free-Cooling Chiller technology or warm water fluid cooling systems for maximum uptime and efficiency.

5900 Genesee St.
Lancaster, NY 14086
Tel: 716-691-9222