

motivair



DATA CENTER & IT COOLING

Heat Dissipation Unit | HDU



Deploy Liquid Cooling in Air-Cooled Data Centers

Designed for use in air-cooled data centers where central chilled water is unavailable. Motivair's Heat Dissipation Unit (HDU™) allows you to deploy liquid cooling in your data center environment without impacting your infrastructure.

Unlike a Coolant Distribution Unit (CDU) that rejects heat from the server rack to the chilled water loop of the building, a Heat Dissipation Unit (HDU™) rejects the server heat from the server rack to the white space where building air conditioning would then remove that heat.

FLOOR MOUNT FEATURES

- Capacity up to 150 KW
- Floor mount and in-rack versions
- Hot swappable fans and pumps
- Redundant circulation pumps
- Leak detection system
- Made in the USA

IN-RACK FEATURES

- Front panel mounted display
- N+1 fan redundancy
- Hot swappable fans
- Leak detection system and remote coolant feeder pump and tank for filling
- Optional external bypass kit allows in-rack unit to be used to cool a single server or a single cold plate with controllable flows down to 1 lpm while still maintaining the desired cooling capability.
- Optional casters for mobility on site.
- Integrated flow meter with display.
- Made in the USA



Technical Specifications

Models	MHDU 10	MHDU 15	MHDU-5900	MHDU-5901	MHDU-5910
MHDU Dimensions (in):					
Height:	17.25	17.25	90.5	90.5	90.5
Width:	17.35	17.35	23.5	23.5	23.5
Depth:	32.5	32.5	54.3	54.3	54.5
Nominal Cooling Capacity (kW):					
77 F air temperature / 113 F liquid supply temperature	10	15	87	107	150
77 F air temperature / 95 F liquid supply temperature	6	8	45	55	78
Piping Size (IN)	1"	1"	1" x 2	1" x 2	1" x 2
Nominal Flow Rate (GPM)	10	10	32	32	32
Piping Type	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous	Non-Ferrous
Electrical	208-230 VAC, 1 ph, 50/60 Hz	208-230 VAC, 1 ph, 50/60 Hz	230 VAC, 1 ph, 50/60 Hz	230 VAC, 1 ph, 50/60 Hz	230 VAC, 1 ph, 50/60 Hz

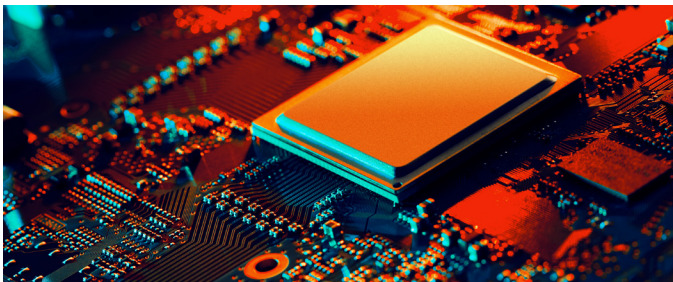
We cool the most advanced technology on the planet

We discover, design, and develop resilient thermal technologies and strategies, and convert that into actionable insights and unparalleled value for our clients.

From climate research to finance, cloud to artificial intelligence, customers trust Motivair's cooling technologies so they can break new boundaries and help deliver tomorrow's innovations faster.

We're helping our clients discover cures for diseases, combat climate change, and make tomorrow's data-driven services more reliable and accessible.

We are touching millions of lives each day by providing the critical cooling technology to support productivity and innovation that is changing our world.



DIRECT-TO-CHIP COOLING

Supercomputing isn't just in the lab anymore. The power of high-performance computing is scaling out as more enterprises and corporations look to utilize artificial intelligence for advanced decision-making and accelerate digital transformation.



DATA CENTER & IT COOLING

Designed for and used by the enterprise data center and supercomputer owners and operators, our cooling technology is engineered to help you leap forward in scale, quality, and speed.



THERMAL MANAGEMENT

When it comes to cooling your critical infrastructure, we work to customize specialty chiller technology for you, rather than selecting from a catalog



CLIENT SERVICES GROUP

Manage every aspect of your cooling infrastructure, from planning and design to start up, commissioning and post-sale performance. Your business depends not only on our products but also our ability to respond when you need us.