

CDS-120

120 kW COOL DOOR SYSTEM

Targeting and extracting heat at the source makes the OptiCool® Cool Door System (CDS) the benchmark for reliable and efficient Data Center cooling.

The OptiCool® CDS is an active rear door heat exchanger (RDHx) that can be mounted directly to the back of any standard equipment rack using a Door Transition Kit (DTK) that maintains the internal space of the rack. OptiCool's calibrated solution is engineered to maintain ambient room temperature to allow your equipment to perform as specified.

Cool Door System (CDS) units

The OptiCool® CDS-120 is a high performance, variable-speed CDS that adjusts to the heat load within your equipment rack to maximize efficiency. The OptiCool® CDS dual-core coil design utilizes parallel refrigerant flow paths to minimize refrigerant pressure drop while maximizing cooling efficiency across the system. Engineered for optimized thermal transfer and balanced system operation, the advanced dual-core architecture supports stable thermal conditions and reliable performance in demanding data center environments.







Maintenance and serviceability have never been easier with hot-swappable fan banks and direct coil access to minimize downtime while enabling fast, efficient servicing in mission critical environments. Streamlined and economical, this innovative solution optimizes energy consumption and heat extraction capacity.



Specifications

DOOR DESCRIPTION:	1 door / 9 banks / 36 individual fans
DIMENSIONS (L x W x H):	30.00 in. x 6.00 in. x 92.00 in.
DOOR WEIGHT:	250 lbs
FAN DIAMETER:	6.70 in. x 5.90 in. (172 mm x 150 mm)
COOLING CAPACITY:	120 kW
DTK WEIGHT:	112 lbs Maximum
POWER SUPPLY RACK UTILIZATION:	32 lb / IU (2U's for 2N Redundancy)
POWER INPUT:	120 VAC
MAX POWER CONSUMPTION:	5.02 kW
NOMINAL POWER CONSUMPTION:	3.02 kW
INLET SENSORS:	8 TEMP SENSORS
OUTLET SENSORS:	9 TEMP SENSORS (1 per fan bank)
COLOR:	Black, White, or Custom
SUPPORTED RACKS:	48U – 52U / 30 in. – 32 in. RACKS

Features

-  Assembled in the USA.
-  Industry standard hardware and software for easy BMS integration.
-  Temperature sensors to control variable speed fans in the CDS.
-  System designed with cooling capacity management to efficiently handle load change fluctuations.
-  Remote Monitoring capability.
-  Hot-swappable fan bank modularity for easy maintenance and serviceability.

