



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. The design of the CDS provides the flexibility to install up to three Active Heat eXtractors (AHXs) per door. OptiCool's calibrated solution is engineered to maintain ambient room temperature to allow your equipment to perform as specified.

Active Heat eXtractor (AHX) units

The OptiCool AHX is a high performance, variable-speed unit that adjusts to the heat load within your equipment rack to maximize efficiency. AHX's are fed with a dual power distribution units and are placed in alignment with the heat load to extract heat from the rack. Each AHX moves air over its evaporator coils to remove the heat and provide a room-neutral temperature that minimizes the thermal impact of your equipment space. Each evaporator coil in the AHX is encased in a frame with a protective guard.








Our CDS can include blanking panels to ensure efficiency when the cooling application requires less than a full complement of AHX's per door. Additionally, clients who rely on hot aisle containment in their Data Centers will experience enhanced cooling efficiency with our AHX fan-only model. Streamlined and economical, this innovative solution optimizes white space conditions without the need for pump units or a coolant distribution network.



Specifications

# OF AHX SUPPORTED:	0 - 3
AHX DIMENSIONS (EA):	22.7 in. x 19.5 in. x 9.00 in.
AHX UNIT WEIGHT (EA):	42 lb
TOTAL DOOR DEPTH:	8.75 in. (2 in. DOOR + 6.75 in. DTK)
DOOR WEIGHT (EA):	35 lb – 57 lb
DTK WEIGHT:	24 lb – 40 lb
PDU WEIGHT:	8 lb
POWER INPUT:	SINGLE or DUAL
MAX POWER CONSUMPTION PER AHX:	1.278 kW
INLET SENSORS:	REDUNDANT A/B TEMP SENSORS
CERTIFICATION:	ISO 9001-2015
NEBS SEISMIC COMPLIANT:	YES
COLOR:	BLACK or WHITE
DOOR HEIGHT:	48U – 52U / 30 in. – 32 in. RACKS

Features

-  Assembled in the USA.
-  Industry standard hardware and software for easy BMS integration.
-  Blanking panels are used if a full complement of AHX's are not needed per door.
-  Temperature sensors to control variable speed fans in the AHX.
-  System designed with cooling capacity management to efficiently handle load change fluctuations.
-  4 Monitoring cable configuration options for multiple AHX units.
-  Up to 3 AHX units can be installed per door.



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