

NORTEK[™]
AIR SOLUTIONS
SERVERCOOL



SERVERCOOL[™]
Active Rear Door Heat Exchanger

ADHX 35-6B [35kW]

SERVERCOOL™ UNITS

Key System Features

Top performance and reliability at your fingertips. Nortek Air Solutions ServerCool is a leading liquid cooling solution used in some of the most stringent applications.

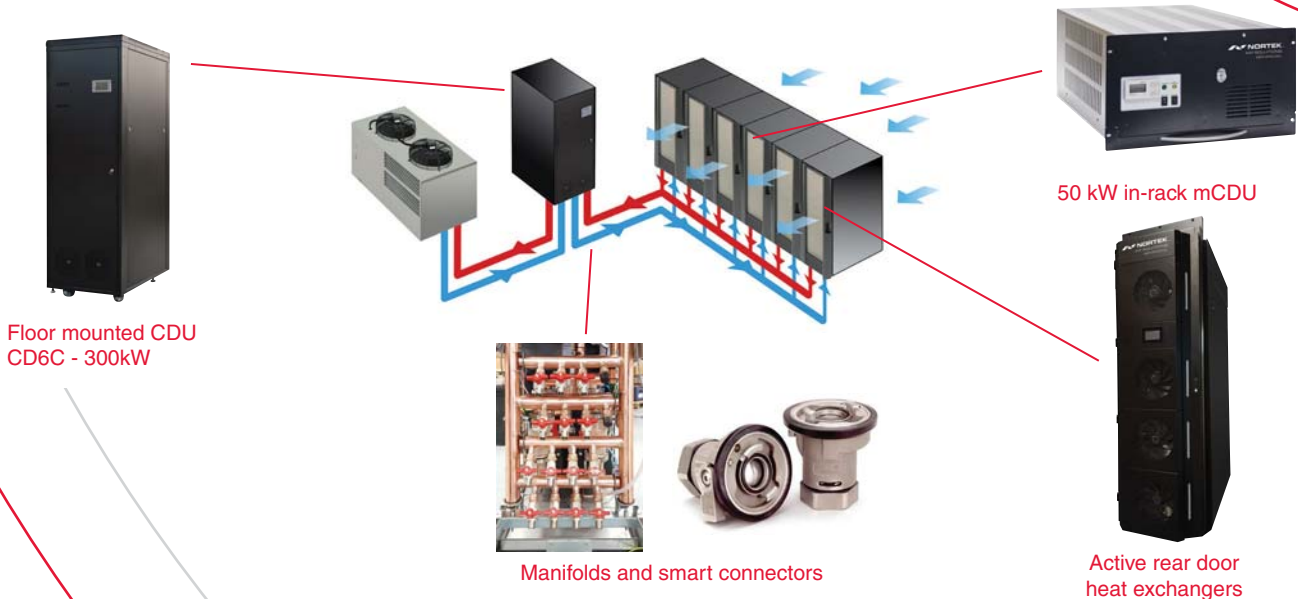
For over 20 years, the most prestigious and demanding organizations have depended on Nortek Air Solutions ServerCool products. We deliver unique, adaptive and inspired liquid cooling solutions. Our deep understanding of customer requirements developed from dozens of years of data center and high-performance computer experience. In fact, our products are on dozens of supercomputers on the Top500 list.

Your Benefits

- Ultra-efficient
- Built-in redundancy
- Plug and play installation
- Adaptable rack frame
- Hot Swappable N+1 EC Axial Fans
- Touch screen display and dew point control and airflow/air pressure management
- Ultra-slim coil
- Differential pressure switch
- Hydraulic bottom connections



Complementary Products and Accessories



SERVERCOOL™ SOLUTIONS

ADHX Duty Selection Chart

AIRFLOW
5000
m³/hr

INLET AIR
TEMPERATURE
INTO DOOR

	14°C INLET WATER					
	20 l/m	30 l/m	40 l/m	50 l/m	60 l/m	70 l/m
30° C	14.2 kW	16.1 kW	17.9 kW	18.6 kW	19.3 kW	21.0 kW
35° C	18.6 kW	20.9 kW	23.3 kW	24.2 kW	25.1 kW	27.3 kW
40° C	22.9 kW	25.8 kW	29.6 kW	29.7 kW	30.5 kW	33.5 kW
45° C	27.2 kW	30.5 kW	33.8 kW	35.0 kW	36.6 kW	39.3 kW
50° C	31.4 kW	35.2 kW	38.9 kW	40.3 kW	41.7 kW	45.2 kW
55° C	35.6 kW	39.7 kW	43.9 kW	45.4 kW	47.0 kW	50.9 kW

Technical Data

PHYSICAL DATA

	Shipping data	Installed on rack
Unit dimensions (width x height x depth)	745mm x 2110mm x 300mm 29.3" x 83.1" x 11.8"	600mm x 1965mm x 280mm 23.6" x 74.2" x 39.4"
Weight	90 kg (200 lb)	Dry 78 kg (170.5 lb); Wet 85 kg (187 lb)
Pipe connections	1" BSP Female, 1" Eaton Ball Valve, 1" Dixon QDs or all other compatible quick connects	

ELECTRICAL DATA

Power Supply	110-230v, 50Hz/60Hz 1-phase + earth
Recommended Fuse rating	5 Amps (Controls circuit 24V, 20 Amps)
Typical nominal power	550 W (maximum)
Communication	Modbus or BACnet

PERFORMANCE

Fan operation setup	4 Fans, N+1 Hot swappable
Fluid flow	80 l/m (21 GPM) max. Flow; 10 Bar (145 Psi) max. Nominal @ 60 l/m (15.85 GPM) at 16°C (61°F), 22°C (72°F).
Duty (at nom. conditions)	35kW
Airflow	Max Air Flow 6500 m3/Hour (3825CFM)
Fluid temperature	ASHRAE W1 to ASHRAE W4

WHY LIQUID COOLING?

- Delivers high performance and resilience
- Power usage effectiveness as low as 1.033
- Efficiency as high as 14.11 GFlops/watt
- The cooling solution of choice for most IT manufacturers

WHY SERVERCOOL™?

Since the 1990s, Nortek Air Solutions ServerCool has worked with some of the most distinguished organizations to provide innovative cooling solutions. Our products are proven and our coolant distribution unit has an impeccable pedigree. Our United States and European manufacturing facilities are at the pinnacle of operational excellence. Lean, agile techniques ensure high quality and sustainable performance.

We have a multicultural, global engineering team that operates in research and development facilities in the United States, China and Europe. Plus, we feature the widest global service and partners network.

Nortek Air Solutions ServerCool products are found on the Tsubame 3.0 supercomputer – named the greenest supercomputer on June 2017's Green 500 list.

For more information about Nortek Air Solutions ServerCool, contact us at nortekairinfo@nortek.com.

Contributors to



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www.nortekair.com
nortekairinfo@nortek.com

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