

CRAH

Chilled Water Computer Room Air Handler

Nortek Data Center Cooling Expertise.

Nortek Data Center Cooling is focused on serving the data center market with innovative future-proof technology, dependable performance, adaptive solutions to difficult issues and industry-leading sustainability. Our optimized solutions maximize cooling, minimize downtime and reduce both power and water consumption.

COMPUTER ROOM AIR HANDLER (CRAH)

High Efficiency Cooling within a Compact Footprint

The Nortek DCC Computer Room Air Handler (CRAH) is designed to meet a high-density data hall cooling load in a compact footprint. Utilizing industry-leading fan technology and robust equipment design, the Nortek DCC CRAH maximizes output, efficiency, and reliability.

The unique high capacity design reduces the number of units and required footprint needed for cooling systems, freeing up usable space or complementing other cooling solutions such as Nortek DCC CDUs.

With a highly competitive lead time, the Nortek DCC CRAH allows for industry leading time to deployment making it ideal for both new construction and retrofit applications.

OPERATIONAL BENEFITS



Standard product with modular options, adaptable to meet various designs, specifications, or requirements



Four nominal capacities promoting optimized selections, improving overall system efficiency



Robust design focused on reliability and serviceability resulting in a low total cost of ownership system

PRECISE TEMPERATURE CONTROLLER



Factory installed DDC controller with HMI supporting multiple protocols



Suite of standard factory installed end devices to monitor and deliver precise unit control



Built-in safety devices to monitor and alert operating state of key components (locally & remotely)



Model Shown:
Horizontal Discharge

CRAH OPTIONS



- EC Motors or AC w/ VFD
- Below the floor discharge w/Stand
- Additional sensor options
- Dual power service option
- Automatic transfer switch (ATS)
- Control power battery back-up
- Quick start relay
- Harmonics mitigation
- Optional features: smoke alarm, fire stat, condensate pump,
- PICV

CRAH Components.

COILWALL ARRAY (CWA)

- ✓ Sheet steel panels with 1-inch thick insulation
- ✓ Cabinet construction using a welded structural steel tube base design
- ✓ All service and maintenance activities are designed to be performed either from the front of the unit or by side access

FAN SYSTEM

- ✓ Direct-driven, ECM fans with air foil blades mounted in the CRAH fan base section
- ✓ Steel frame and panel construction

COOLING COILS

- ✓ Units use dual cooling coils arranged in an "A" formation
- ✓ Copper tubes mechanically bonded to aluminum fins

CONTROL VALVE AND CONTROL PANEL

- ✓ Two-, three-way or Pressure Independent control valve option
- ✓ Proportional type actuators with an operating voltage of 24v

FILTER SECTION

- ✓ 2" and 4" optional filters
- ✓ All external frames and panels coated with a dry powder-baked polyester coating
- ✓ Stainless steel drain pans with solid welded seams
- ✓ Fans mounted on rails with quick connects for fast and easy servicing
- ✓ AC Fan with VFD as an option
- ✓ High efficiency coil design with modular options
- ✓ Integrated control panel with alarm feature
- ✓ Control panel houses a main input fused disconnect, DDC controller and human mechanical interface device (HMI)
- ✓ MERV-8 and MERV-13 Options



BUILT BY NORTEK DATA CENTER COOLING

You're creating **the next big thing** in your field. We're building the latest innovation in ours.

Nortek builds data center cooling solutions for companies moving the world forward. Our end-to-end systems keep up with the biggest names in technology, and reduce water and power usage.

Our world-class team of engineers and designers develop technology that is effective, sustainable, efficient and adaptive to many challenging cooling environments. Nortek's innovations and patented technology can be found in some of the most prestigious data center storage facilities on the planet.

Together, we can create data center cooling solutions that save energy and empower change. Cooling the cloud. Protecting the planet.

Visit nortekdatacenter.com to become a partner.