



- *60,000 to 90,000 CFM as standard models*
- *Coil selection per actual design condition*
- *Easy to use controls and touch screen interface*
- *1" insulated single wall heavy gauge construction*
- *Data Center aesthetics that compliment any server environment*

**Overview:**

- In accordance with ASHRAE Standard 127-2012
- Controls are brand-neutral for seamless integration on site
- 60,000-90,000 CFM

Exceptional Computer Room Air Handling Equipment**60,000 to 90,000 CFM****Why?**

United Metal Products[®] CRAH units offer an energy efficient, reliable, low maintenance cost effective cooling solution for data centers. The flexible, high quality design of the UMP[®] CRAHs allow end users to maximize their energy savings and reduce their operational expenditures.

Benefits:

- Minimum maintenance
- Heavy gauge construction
- Energy efficient direct drive fans
- Highly reliable design
- Multiple coil options with large surface areas allow for optimal performance
- Available in a number of sizes to match required air volumes, coil capacities, airflow configurations and TSPs
- Reduced Power Usage Effectiveness (PUE)
- Potential to pair with the energy efficient AHCe[™] technology for lower kW/ton than conventional systems
- Factory tested and shipped ready to operate, including factory wired components

- Fan performance is factory set to job specifications
- Galvanized construction with attractive powder textured finish baked on at 375°F
- ETL listed and labeled in accordance with U.L. standards
- Using the CRAH in conjunction with the AHCe[™] results in a smaller carbon footprint than water or air cooled chiller systems

Application:

United Metal Products[®] CRAHs are specifically designed for data centers. They can be customized for the specific facility and geographic location and provide a strategic component of an overall energy savings strategy. The CRAH is uniquely designed to help data center owners and facility managers save money by reducing energy consumption.

Applications:

- Data centers
- Telecommunication facilities
- Laboratories
- Medical facilities
- Process control facilities

Resources Available for This Product

- Catalog Online

**United Metal Products**

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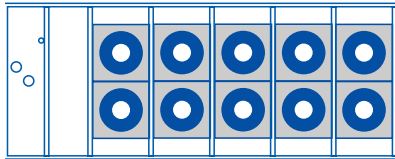
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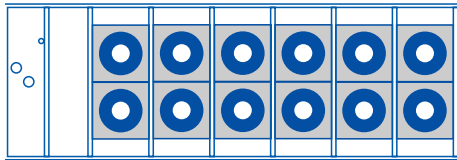
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Typical Fan Configurations - for XL Applications

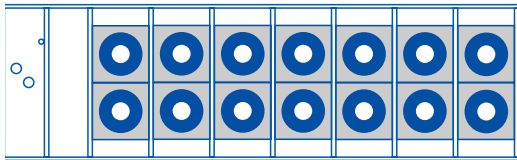
High Density Aisle Configuration



60,000 CFM



75,000 CFM



90,000 CFM

Standard Features

All items listed here are a sample of what is typical. As these systems are custom built to site requirements in construction and performance they will be unique.

- Galvanized steel, powder coated finish
- Hinged door access panel with 3 point swing handle, keyed
- 1/4 turn access panel
- 1" single wall construction
- 1/2" thick, 2 lb/ft² density thermal & sound insulation
- 1" thick, 1.5 lb/sq ft fiber insulation
- 2-way modulating chilled water control valve
- Differential temperature flow switch
- High efficiency, aluminum fin/copper tube coils
- Return air recirculation mode for leaving air temperature in winter
- Color touchscreen graphic microprocessor w/ alarms
- 2" 30/30 pleated filters
- Backward inclined, plenum style fan, with an EC motor
- Multi-voltage control transformer (24V class 2)
- Motor starter protectors and integral circuit breakers
- Main power circuit breaker
- Motor overload protection
- Fusible rotary disconnect with external handle
- Main power cable receptical disconnect
- Motor voltage in 208/3/60, 230/3/60, 380/3/60 and 480/3/60
- Audible/ visual local & remote alarms and sensors for:
 - high temperature
 - low temperature
 - EC fan fault
 - change filter
 - loss of power
 - leak under floor
 - smoke detection

Selection and Nomenclature

DC-CRAH	NOMENCLATURE	CUSTOM OPTION
	Nominal CFM (x 1000) 60 75 90	
	Air Flow D=Down X=(Custom)	
	Cooling Fluid C=Chilled Water X=(Custom i.e. Glycol Solution)	
	Fan Type E=EC with Motorized Impeller X=(Custom)	
	Motor Voltage 1=208/3/60 2=230/3/60 4=480/3/60 5=575/3/60 *Note: Consult Factory X=(Custom)	
	Pressure Valve 1=2 Way Valve STD Pressure 2=3 Way Valve STD Pressure 3=2 Way Valve High Pressure 4=3 Way Valve High Pressure	
	Pipe Chase Location R=Right Side L=Left Side	
	Color Option W=White B=Black G=Galvanized	
DC-CRAH	60 D C EC 4 2 R B →	XXXXXXXX

Optional Features

- 1" thick double wall construction
- Floor stand (adjustable)
- Seismic rated floor stand (adjustable)
- 3-way modulating chilled water control valve
- Dehumidification mode - electric reheat
- Modbus Interface
- 4" 30/30 pleated filters
- 4" MERV11
- Return Air Plenum Extension Box
- Motor Voltage 575/3/60 * Consult Factory
- Audible/ visual local & remote alarms and sensors for:
 - high humidity
 - low humidity
 - high air pressure