

# RackChiller CDU800 Coolant Distribution Unit

## Data Solutions



The nVent HOFFMAN RackChiller CDU800 is designed for efficient and safe supply of IT equipment. The entire system is focused on providing the highest reliability, availability, and serviceability for supporting direct-to-chip liquid cooling. The CDU800 is fed from a primary facility water system (FWS), where the integrated pumps drive the secondary technology cooling system (TCS) cooling loop flow. The heat exchanger transfers the excess heat from the secondary coolant to the primary. The complete system is integrated into an aesthetical enclosure with removable side panels and doors. The CDU can be installed onto a slab or raised floor, in-row with equipment racks or into a separate facility room.

### INDUSTRY STANDARDS

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UL/cUL Listed; File No. SA7402

CE

### FEATURES

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800+kW of cooling capacity @ 6K (850 LPM Primary)

Redundant high-performance, leak-free pump system

Integrated variable speed drives

Coolant connections through top or bottom panel

Integrated 10-inch touch panel display

Remote control features through Ethernet, SNMP v3, Modbus

On-board integrated leak detection

Unrivalled power density – fits into standard data center footprint

Serviceable during operation – no need for shut down during system maintenance

Redundant system layout minimizes risk for single points of failure

Integrates with nVent Guardian Management Gateway and sensors portfolio

### SPECIFICATIONS

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**Color:** Black Grey

**Material:** Mild Steel  
**Finish:** Plated  
**Color Code:** RAL 7021

| Table 1/2      |            |           |           |                |                |                 |
|----------------|------------|-----------|-----------|----------------|----------------|-----------------|
| Catalog Number | Height (H) | Width (W) | Depth (D) | Voltage Rating | Phase Quantity | Rated Frequency |
| CDU8004LA03B   | 2200mm     | 800mm     | 1200mm    | 380 – 480V     | 3              | 50 – 60Hz       |
| CDU8004LA03A   | 2200mm     | 800mm     | 1200mm    | 380 – 480V     | 3              | 50 – 60Hz       |

| Table 2/2      |                             |                   |                   |                          |             |                         |
|----------------|-----------------------------|-------------------|-------------------|--------------------------|-------------|-------------------------|
| Catalog Number | Rated Current/Rated Voltage | Power Consumption | Country of Origin | Rated Load Current Range | Noise Level | Type                    |
| CDU8004LA03B   | 40                          | 22.2W             | United States     | 47.5A min                | 68dB        | With Primary Filtration |
| CDU8004LA03A   | 40                          | 22.2W             | United States     | 47.5A min                | 68dB        | With Primary Filtration |

DIAGRAMS



WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.



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