

## RACKCHILLER CDU800 COOLANT DISTRIBUTION UNIT



### FEATURES

- 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
- Unrivaled 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

#### General Data

- 800+kW of cooling capacity @ 6K (850 LPM Primary)
- Pipe Connection: 3-inch ID hygienic tri-clamp
- Liquid Temp Range: 20 - 70 C (68 - 158 F)

#### Primary Rating

- Coolant: treated water with up to 20% PG
- Maximum Allowable Flow Rate: 1200 LPM (317 GPM)
- Maximum Head Loss (at 850 LPM, Water): 1.3 Bar (19 psi)
- Maximum System Pressure: 10.3 Bar (150 psi)
- System Volume: 50 L (13 Gal)
- Primary Filter Size: 250 micron

#### Secondary Performance

- Coolant: treated water with up to 30% PG
- Maximum Flow (single pump): up to 1100 LPM (290 GPM) at 2.6 bar (38 psi)
- Maximum Flow (dual pumps): up to 1100 LPM (290 GPM) at 3.4 bar (49 psi)
- Maximum Allowable Static Pressure: 3.5 Bar (50psi)
- Maximum System Pressure: 8.6 Bar (125 psi)
- Pressure Relief Valve Activation Pressure: 9.0 Bar (130 psi)
- System Volume: 100 L (26 Gal)
- Secondary Filter Size: 50 micron

### INDUSTRY STANDARDS

UL/cUL Listed; File No. SA7402

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### APPLICATION

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.

### Standard Product

Catalog Number	Description	Height in./mm	Width in./mm	Depth in./mm	Voltage Rating (V)	Phase	Rated Frequency (Hz)	Rated Current (A)	Power Consumption (kW)	Noise (dB)	Weight Dry (lb./kg)	Weight Package (lb./kg)
CDU8004L002	380-480V 3-PH with Primary Filtration	87.00 2200	31.00 800	47.00 1200	480	3	50/60	47.5	22.2	68	2500 1134	2820 1279





