

RACKCHILLER CDU800 COOLANT DISTRIBUTION UNIT



INDUSTRY STANDARDS

UL/cUL Listed; File No. SA7402

CE

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, inrow with equipment racks or into a separate facility room.

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
- 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

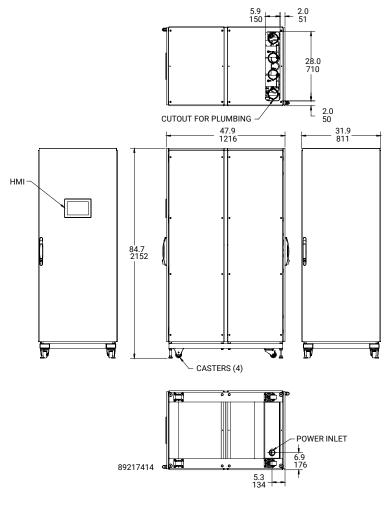
- Coolant: treated water with up to 30% PG
- Maximum Flow (single pump): up to 1100 LPM (290 GPM) at 2.6
- Maximum Flow (dual pumps): up to 1100 LPM (290 GPM) at 3.4 bar (49 psi)
- Maximum Allowable Static Pressure: 3.5 Bar (50psi)
- Maximum System Pressure: 8.6 Bar (125 psi)
- Pressure Relief Valve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

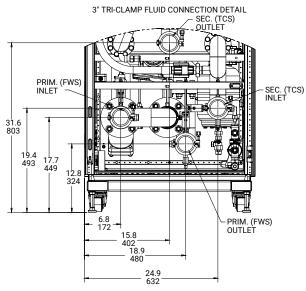
Standard Product

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

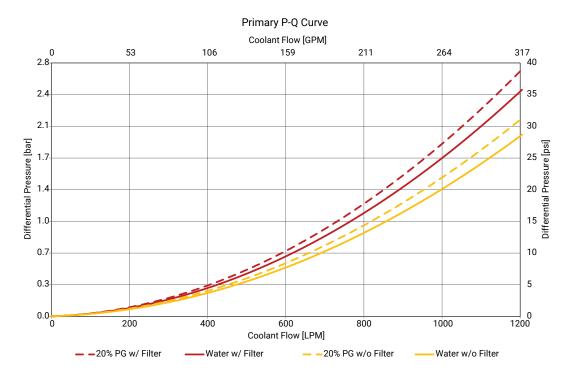
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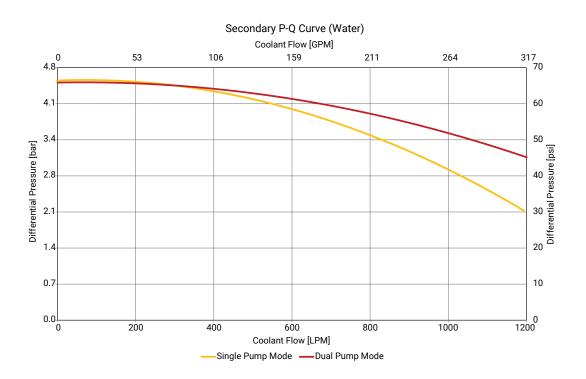












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