

RackChiller CDU800

CONNECT AND PROTECT

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 or TCS coolant to the primary or FWS coolant.

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.



FEATURES

- 800+kW of cooling capacity @ 4 K approach
- Redundant high-performance, leak-free pump system
- Integrated variable speed drives
- Primary (250 micron) and secondary (44 micron) flow filtration
- Coolant connections through top or bottom panel
- Integrated 10" touch panel display
- Remote control features through Ethernet, SNMP v3, Modbus, CAN Bus, and BACnet
- On-board integrated leak detection

BENEFITS

- Unrivaled power density – fits into standard data center footprint of 800 x 1200 mm (31 x 47 in)
- 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
- Modular standard design - easy to adapt to your requirements

SPECIFICATIONS

Mechanical

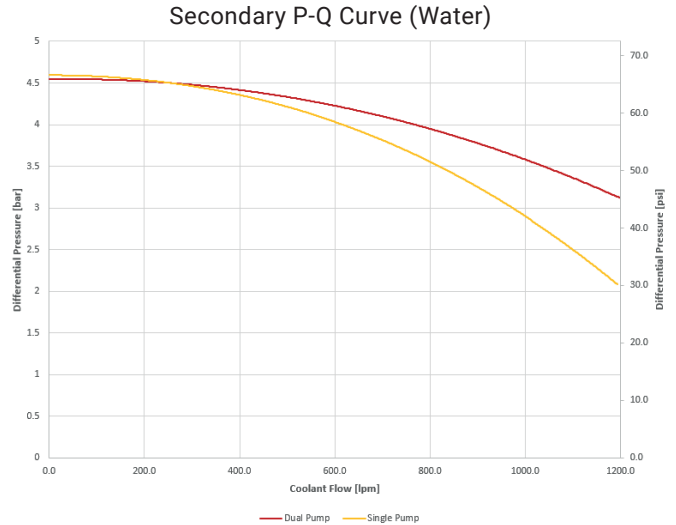
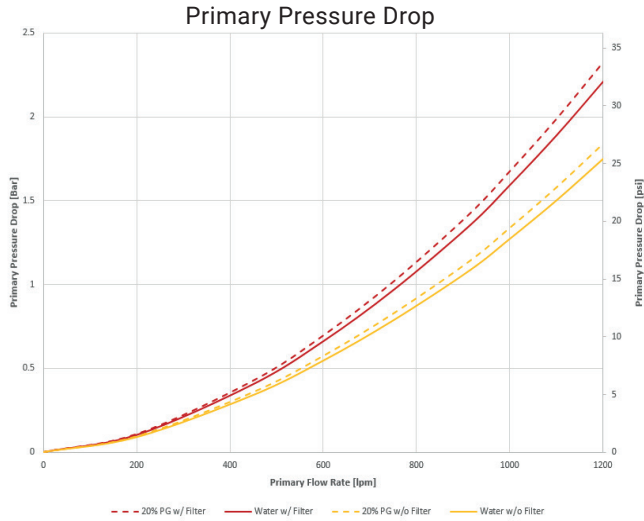
- Height: 2200 mm / 87 in
- Width: 800 mm / 31 in
- Depth: 1200 mm / 47 in
- Pipe Connection: 3" ID hygienic tri-clamp

Electrical

- Power Source: 3~ 200 – 240 V, 50/60 Hz
3~ 380 – 480 V, 50/60 Hz
- Power Consumption: ~17kW max
- Safety Approvals: UL / CSA / CE

Performance

- Primary rating:
 - Coolant: treated water with up to 20% PG
 - Head Loss: < 140 kPa @ 900 lpm PG 20
- Secondary Performance:
 - Coolant: treated water with up to 30% PG
 - Dual pump: up to 950 lpm @ 3.6 bar / 52 psi
 - Single pump: up to 950 lpm @ 2.9 bar / 42 psi
- Cooling capacity: 800 kW @ 4 K approach (water/water)
- Noise emission: < 68 dB(A)



Maximum Operating Points	Water / Water	PG20 / PG30
Primary Supply [°C]	45	45
Primary Return [°C]	56	56
Primary Flow [lpm]	1140	1120
Secondary Supply [°C]	49	49
Secondary Return [°C]	64	64
Secondary Flow [lpm]	850	850
Cooling Performance [kW]	874	861

North America

All locations

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Europe

Straubenhardt, Germany

Tel +49.7082.794.0

Betschdorf, France

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