

## CF-CDU300

**Chillydyne's flagship CDU cools up to a 300 kW load in high density data centers with efficient, leak-free liquid cooling.** Its negative pressure technology eliminates downtime from leaks by using vacuum circulation instead of pumps. Intelligent controls fully automate coolant management while seamless software integration enables remote monitoring and control.

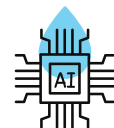
### KEY FEATURES

- Eliminates leaks by circulating coolant under negative pressure
- Automatically monitors and optimizes coolant quality and temperature
- Easy-to-use interface with detailed logging and analytics
- Real-time performance tracking via touchscreen and networks
- Flexible under-floor or overhead installation
- Rack-sized chassis fits anywhere in the data center
- N+1 redundant configurations available to maximize uptime
- DCIM and BMS integrations support SNMP, Modbus, Syslog, Web API, and more



#### Zero-leak liquid cooling

Negative pressure technology



#### 700% more efficient

Compared to air cooling



#### Up to 40% energy savings

Peak thermal performance



#### 450 tons of CO2 reduction annually

Based on 960kW OCP cluster

### DEVICE SPECIFICATIONS

- **Product:** CF-CDU300
- **CDU Dimensions:** 24" x 80" x 45"
- **Maximum Cooling Capacity:** 300 kW at 7°C approach
- **Primary Coolant Fluid:** Water, water/glycol
- **Secondary Coolant Fluid:** Water, water/glycol
- **Primary Supply Temperature:** 2°C to 45°C
- **Primary Return Temperature:** Up to 60°C
- **Maximum Primary Loop Pressure Drop:** 15 PSI
- **Primary Connection Size:** 2" stainless tri-clamp
- **Primary Connection Location:** Bottom/Top
- **Primary Maximum Pressure:** 100 PSI
- **Primary Filtration:** 100 micron required
- **Maximum Secondary Flow Rate:** 300 liters per minute
- **Secondary Supply Temperature:** Up to 45°C; dew point control included
- **Secondary Return Temperature:** Up to 60°C
- **Secondary Connection Size:** 1-1/4" in barbed standard; other configurations available
- **Secondary Connection Location:** Bottom/Top
- **Secondary Filtration:** Side-stream filtration with bypass to enable cleaning
- **Flow Meters:** Secondary, Primary
- **Pressure Sensors:** Reservoir chamber (supply), main and auxiliary chambers (return)
- **Temperature Sensors:** Primary supply, primary return, secondary supply, secondary return, ambient
- **Other Sensors:** Ambient RH, water quality
- **Fill Pump and Air Vents:** Automatic fill, automatic drain, automatic air purge
- **Maximum Secondary Loop Pressure Drop:** 22 inHg
- **Pump Motor Power:** 3 HP (liquid ring pump)
- **Power Supply, 60 Hz, 3-phase:** 208 V, 480 V
- **Power Supply, 50 Hz, 3-phase:** 380 V
- **Power Supply, Max Current (A):** 5 A (480 V); 10 A (208 V); 7 A (380 V)
- **Communication:** RS-232 Serial CLI, Telnet CLI, Web GUI, Web API, SNMP, Modbus TCP/IP, Syslog UDP, FTP



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