

Critical Infrastructure for the World's Leading Data Centres



IN-RACK 5U/50 kW COOLING DISTRIBUTION UNIT



FOR HIGH DENSITY COMPUTING

From Eaton-Williams®

SERVERCOOL® CDU

SERVERCOOL® CDU

The Cooling Distribution Unit (CDU) from Eaton-Williams is designed to provide cooling water for secondary loop devices such as rear door heat exchangers, cold plates and other HPC water cooled devices requiring a secure, clean, filtered water supply, closely controlled and above dew-point. It is capable of 50kW cooling capacity with supply water anywhere between 15°C (59°F) to 45°C (113°F).

WHY USE A CDU & SECONDARY LOOP

The CDU provides essential separation of primary chilled water from cooling water to the racks / RDHX's, meaning:

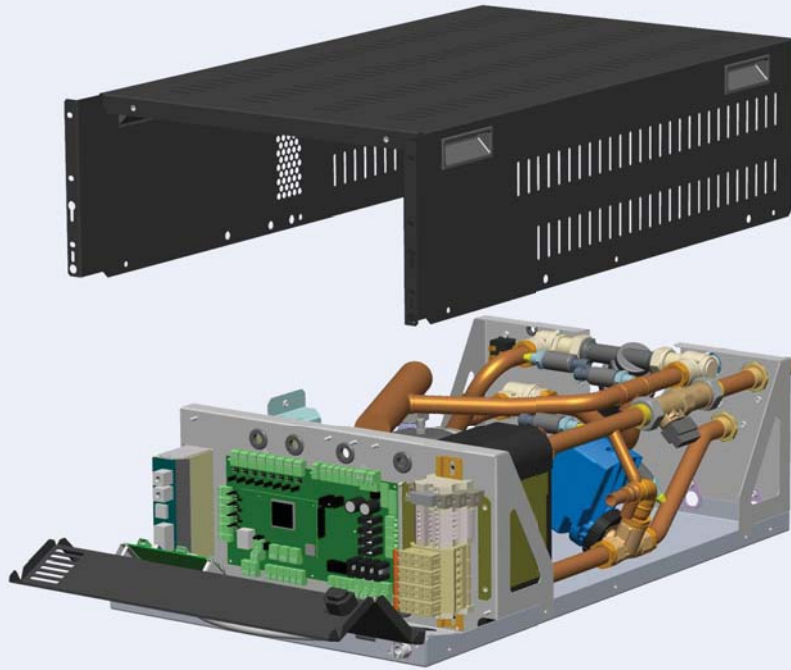
- Low pressure, clean water in rack environment
- Low volume of water in secondary loop, reducing risk
- Water flow controlled to maintain optimum operation and minimise energy use
- Water temperature controlled at above dew point to maximise cooling and ensure condensate-free operation
- Ensures 100% sensible cooling reducing the need for humidification and saving energy
- Provides upgrade path and flexibility without major M&E upgrade work – plug and play
- Provides essential monitoring of the racks being cooled and system status
- Enables system resilience through redundant pumps and failsafe operation
- No potentially unreliable condensate pumps required anywhere in the system

FEATURES

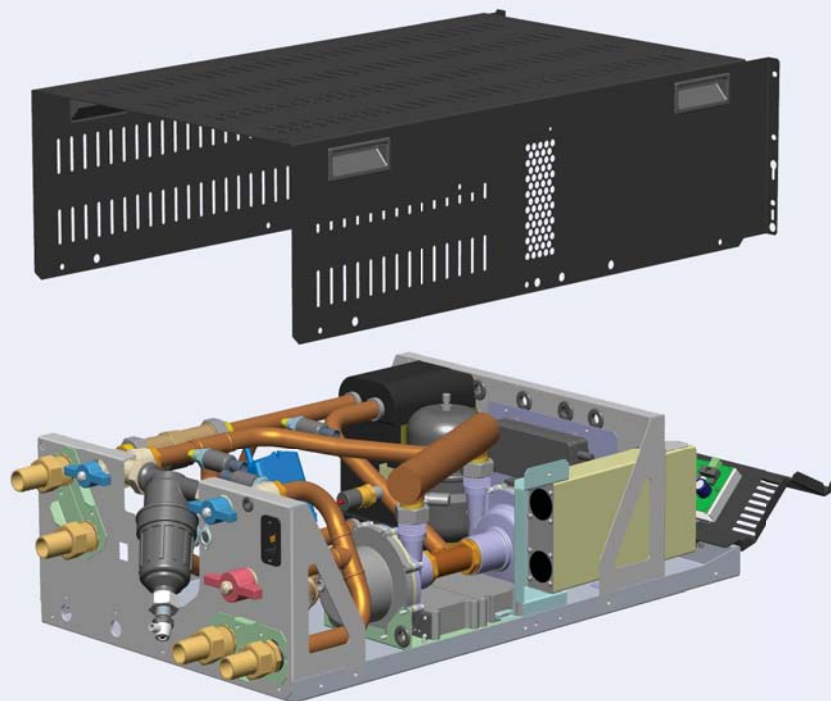
- Cooling capacity of 50kW
- Full run/standby capability with redundant pumps
- Easy to install and retrofit
- Dew point temperature control of cooling water
- Auto-fill and bleed of coolant
- Full alarm monitoring and connectivity
- RS485 communication for BMS and TCP/IP communication for SNMP, Web server, FTP, Telnet, SSH, Modbus, etc.

DESIGNED FOR CRITICAL ENVIRONMENTS & HPC

FRONT OPEN VIEW



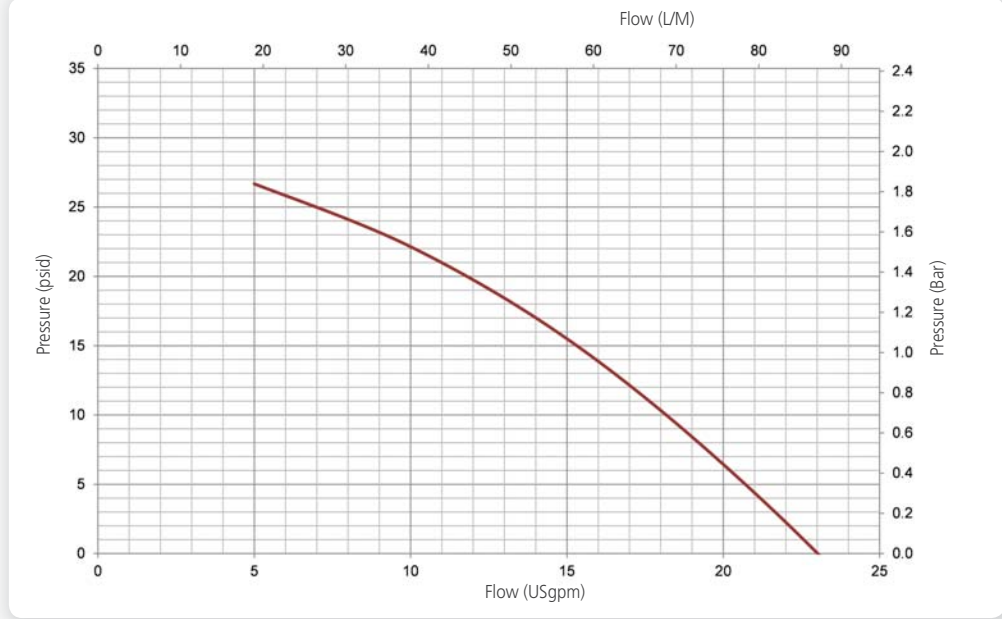
REAR OPEN VIEW



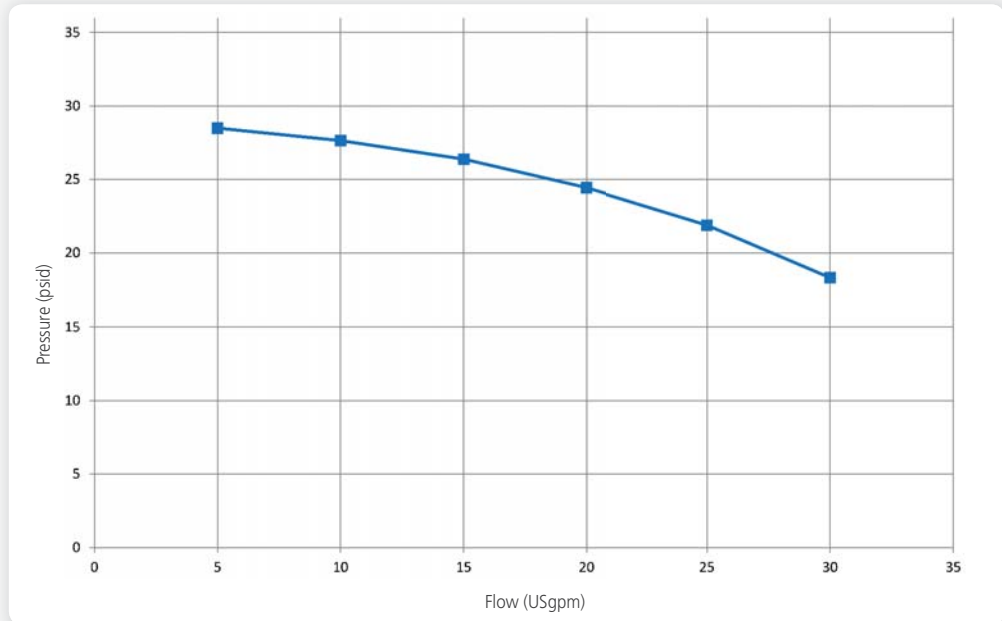
IN-RACK 5U COOLING DISTRIBUTION UNIT (CDU)



FLOW/PRESSURE AVAILABLE EXTERNAL TO CDU



PUMP PERFORMANCE CURVE - 4200 RPM



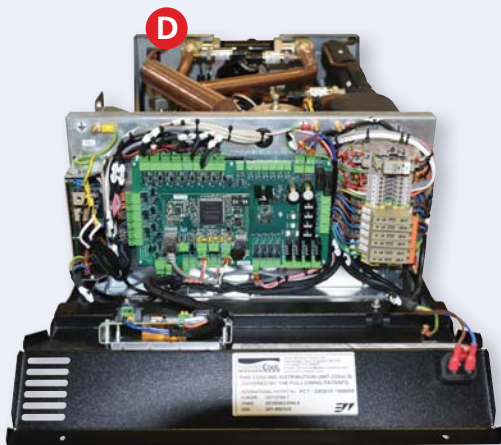
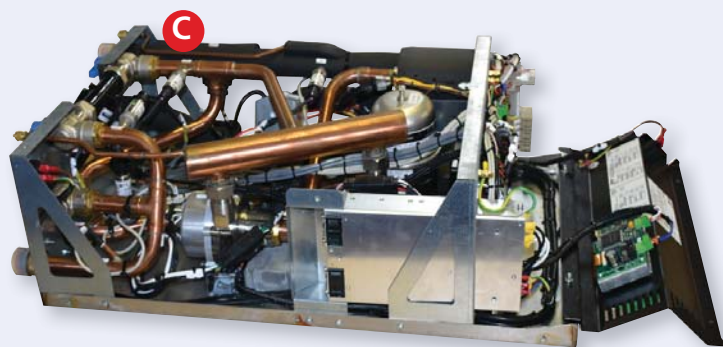
IN-RACK 5U COOLING DISTRIBUTION UNIT

A Front Face with Touch Screen Operator Panel

B Rear Face Showing Connection

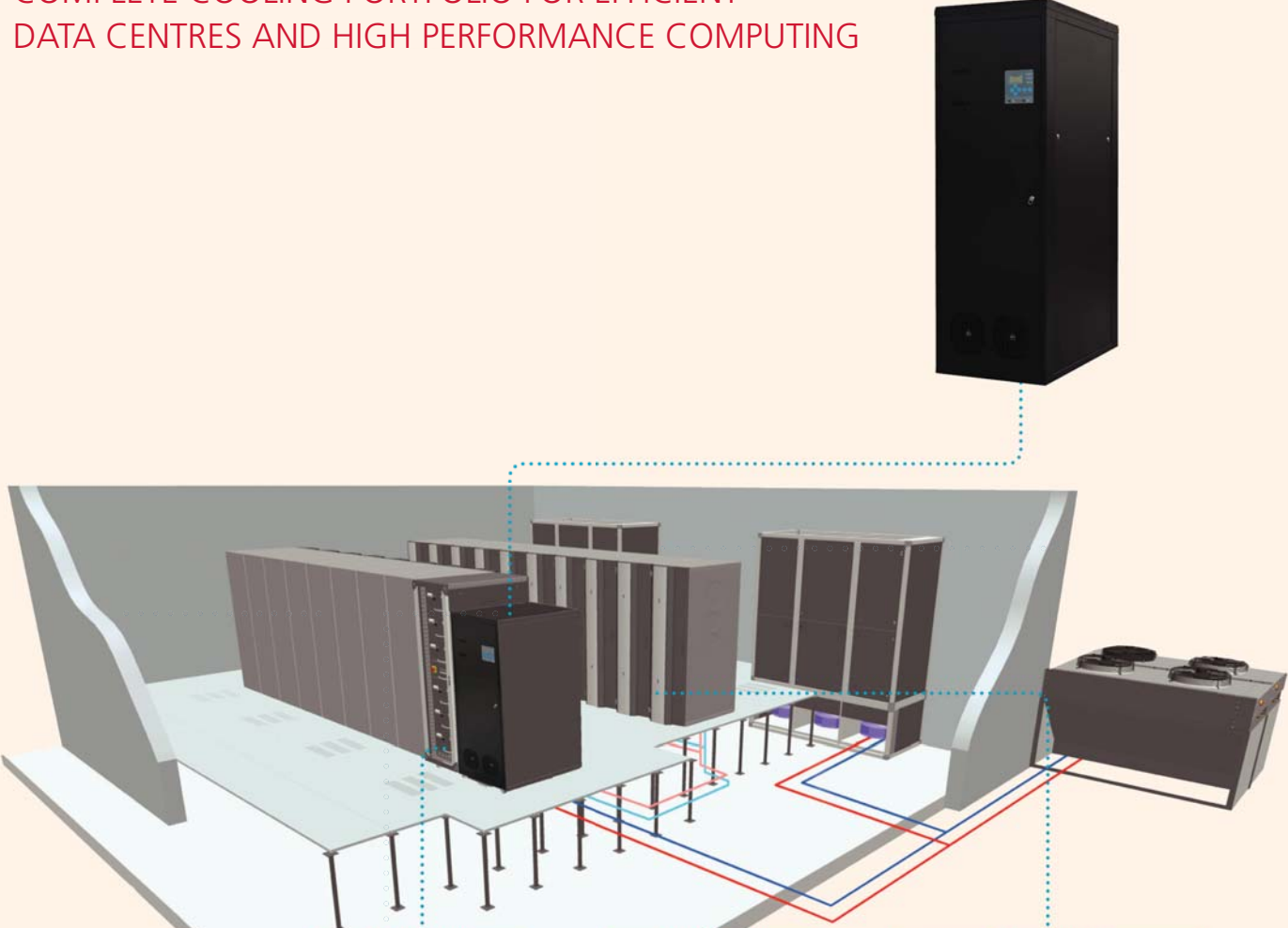
C General Assembly

D Unit Controller



NORTEK GLOBAL HVAC DATA CENTRE SYSTEMS

COMPLETE COOLING PORTFOLIO FOR EFFICIENT
DATA CENTRES AND HIGH PERFORMANCE COMPUTING



Modular CDU



Passive RDHx up to 30kW of cooling

CDU Module



MCHx up to 20kW of cooling

**Server Cabinets
Rear Door Heat Exchangers**



Active RDHx up to 50kW of cooling

NORTEK GLOBAL HVAC DATA CENTRE SYSTEMS

EVERY COOLING SOLUTION FOR EVERY DATA CENTRE

Nortek Global HVAC's precision cooling solutions meet the efficiency, redundancy and scalability requirements for the world's leading data centres. The technologies behind these solutions include FANWALL TECHNOLOGY®, direct/indirect (adiabatic) evaporative free cooling with DX, air- and water-side economisers, high density cooling, modular data centres and advanced controls.



Data Room Cooling Unit (DRU)



Rear Door Heat Exchangers (RDHx)



Data Centre Infrastructure Management Software



OEM Modular Data Centres (MDCs)



Direct and Indirect Evaporative Cooling Units (DEC & IDEC)



Custom Air Handlers and Packaged DX Units



Chillers and Chiller Plants



Retrofits and Upgrades

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