

Vertiv™ CoolChip CDU

In-rack liquid-to-liquid coolant distribution unit



The Vertiv™ CoolChip CDU is a in-rack liquid-to-liquid CDU for direct-to-chip cooling. Two models are available for 121kW or 150kW of cooling capacity. Purpose-built for standard and Open Compute ORv3 rack environments with 48VDC power compatibility options.

Key benefits

For Vertiv™ CoolChip
CDU 150

Up to 150kW cooling capacity

150kW cooling capacity @ 4°C up to 150 LPM with a single pump running. Includes an internal reservoir and integrated expansion tank (available across full product line).

Hot-swappable filter for online service

Hot-swappable integrated 25µm or 50µm filter can be accessed and replaced directly from the front of the CDU while the system remains in operation.

Built-in redundancy

N+1 pump redundancy delivers continuous operation during scheduled maintenance.

Backed by Vertiv's global service network

Includes comprehensive support from initial design consultation through installation, commissioning, and ongoing fluid management. Deploy with confidence knowing expert assistance is available wherever your data centers operate.



Vertiv™ CoolChip CDU 150

Physical data	Vertiv™ CoolChip CDU 121	Vertiv™ CoolChip CDU 150
Unit dimensions (H x W x D), m (in)	175 x 440 x 1065 (6.89 x 17.3 x 41.93)	175 x 440 x 1065 (6.89 x 17.3 x 41.93)
Weight (wet), kg (lbs)	100 (220.5)	100 (220.5)
Performance data		
Nominal cooling capacity	121kW @ 4°C ATD, 121lpm	150kW @ 4°C ATD, 150lpm 220kW @ 6°C ATD, 100lpm
Fluid circuit data		
Primary fluid type	Chilled water or glycol mixture	
Secondary fluid type	Propylene glycol mix	
Primary fluid filtration	Field supplied 500µm	
Secondary fluid filtration	25µm or 50µm	25µm or 50µm, hot swappable
Secondary piping connections, rear	1.5" sanitary flange	
Pump redundancy	N+1 (N=1)	
Electrical data		
Power Supply DC	46-52VDC (ORv3 busbar connection)	
Power Supply AC	50/60 Hz208-240V, 1PH, 50/60Hz	NA
Nominal power consumption	860W (DC) 875W (AC)	860W
Controls data		
Communication protocols	Modbus, BACnet, SNMP, Redfish	
Ambient conditions data		
Operating conditions	5 to 45°C, 8 to 80% RH (non-condensing)	
Storage conditions	-40 to 70°C, 5 to 93% RH (non-condensing)	
Service access required	Side	Front
Compliance		
Safety compliance	CE, cULus, RoHS	
Other	Wetted materials compatible, OCP compliant	
Fluid distribution		
Fluid network in-rack manifolds available for coolant distribution in-rack.		