

Bluearth

CDU32700 L2L

2700kW

The 2700kW CDU is a liquid-to-liquid (L2L) Coolant Distribution Unit. It features dual plate heat exchangers for efficient heat transfer. Heat is transferred from the secondary-side coolant loop to the primary-side chilled water loop, delivering reliable cooling performance.



ADVANTAGE



PUMP REDUNDANCY

- The CDU features a 2+1 redundant circulating pump configuration with cyclic switchover. The system remains operational even if one pump fails.



HIGH COOLING CAPACITY IN A COMPACT FOOTPRINT

- A highly integrated piping layout reduces the footprint to just 1200×1200 mm (L×W).
- The CDU delivers up to 2700 kW of cooling capacity at $ATD = 4$.
- A single CDU supports cooling for up to 12 NVIDIA Vera Rubin NVL72 systems (220 kW each) or 18 NVIDIA GB300 150 kW.



EASY MAINTENANCE

- The pumps feature a modular skid-mounted design for easy maintenance and replacement.
- The filters feature a hot-swappable design, enabling tool-free maintenance without system shutdown.



FLEXIBLE MOVEMENT AND HANDLING

- The CDU is equipped with integrated forklift slots at the base for easy handling and transportation. The base structure also enables flexible on-site positioning, simplifying installation and deployment.

SPECIFICATION

Technical parameter		2700kW/54U L2L In-Row CDU
General	Solution type	L/L CDU
	Cooling capacity	2700kW @ Approach temp. 4°C Primary flow rate: 3025 LPM Secondary flow rate: 3480 LPM
	Dimension	1200(W)x1200(D)x2400(H) mm
	Secondary liquid	Propylene glycol 25wt%
	Noise	<85db
	Pump	N+1
	Liquid volume	CDU: 80L
	Operating temperature	PG25: 38°C/49.5°C
	Weight	Radiator: 950kg
	Floor loading (kg/m2)-Wet	Assembly: 1100kg
Power Supply	Power consumption	20 kW
	Power input	1P 380V~480VAC 50/60Hz, Connector: IEC60320-C20
	Power redundancy	2N+1
mPUE		1.02
Primary side	Piping connections	DN150
	Flow rate	209m³/h
Secondary side	Piping connections	DN150
	Flow rate	240m³/h
	Design pressure	<2bar
System interface		1x RJ45 -ethernet, 4x M12 -external leak / liquid level
Communication platform		HMI, SNMP, Modbus
Monitoring		4x Temperature: • secondary inlet/ outlet • ambient/ dew point 4x Pressure: secondary inlet/ outlet 2x Flow rate: secondary 2x Leak detection: internal, external 2x Liquid level: external Power meter