

Cool inside CDU





Direct-to-Chip Cooling for Overall Liquid Cooling



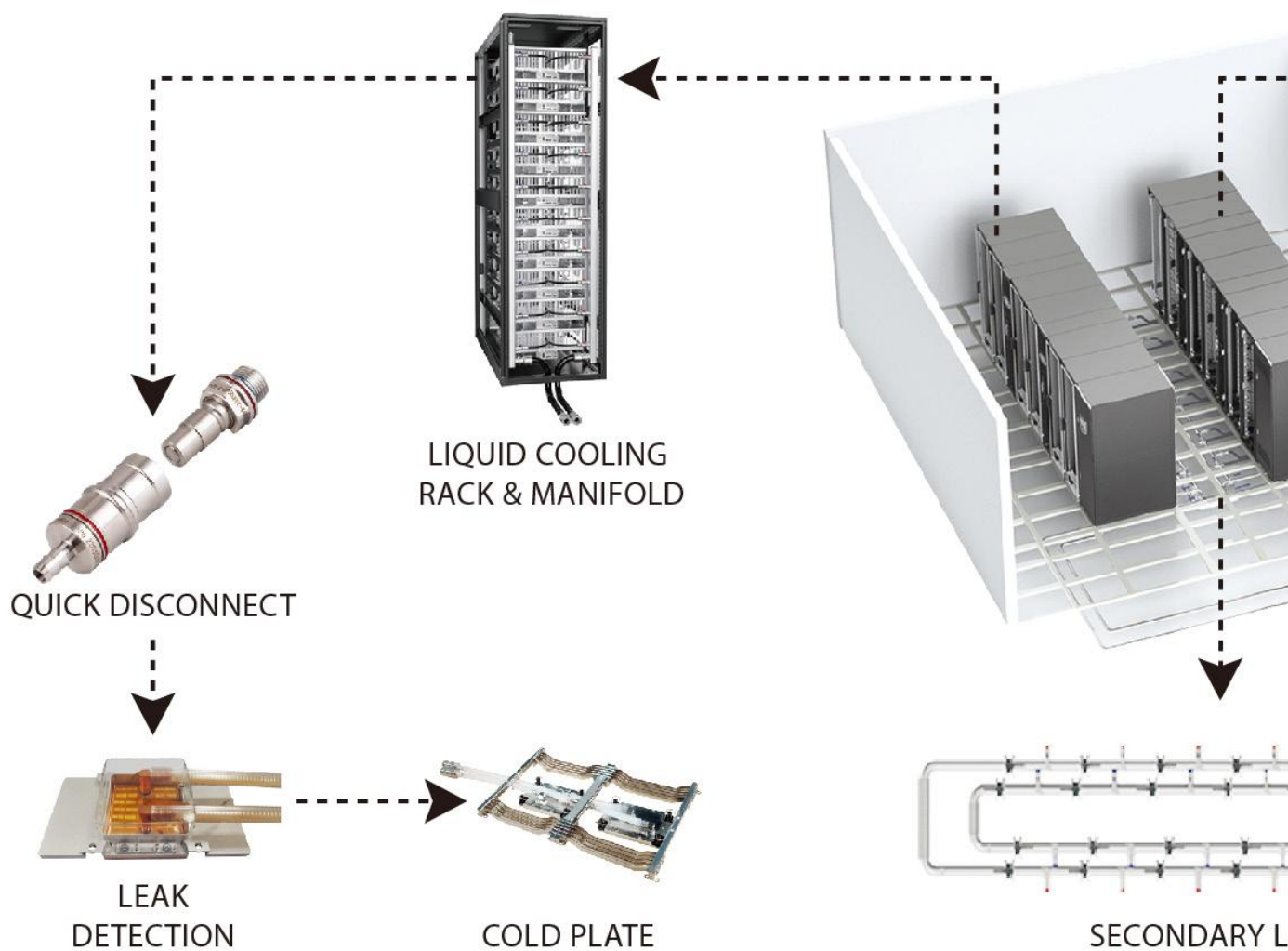
Integration of high-efficiency variable-frequency pump and warm water cooling technology to make full use of natural cold sources



Flexible and inclusive solutions catering to different application scenarios

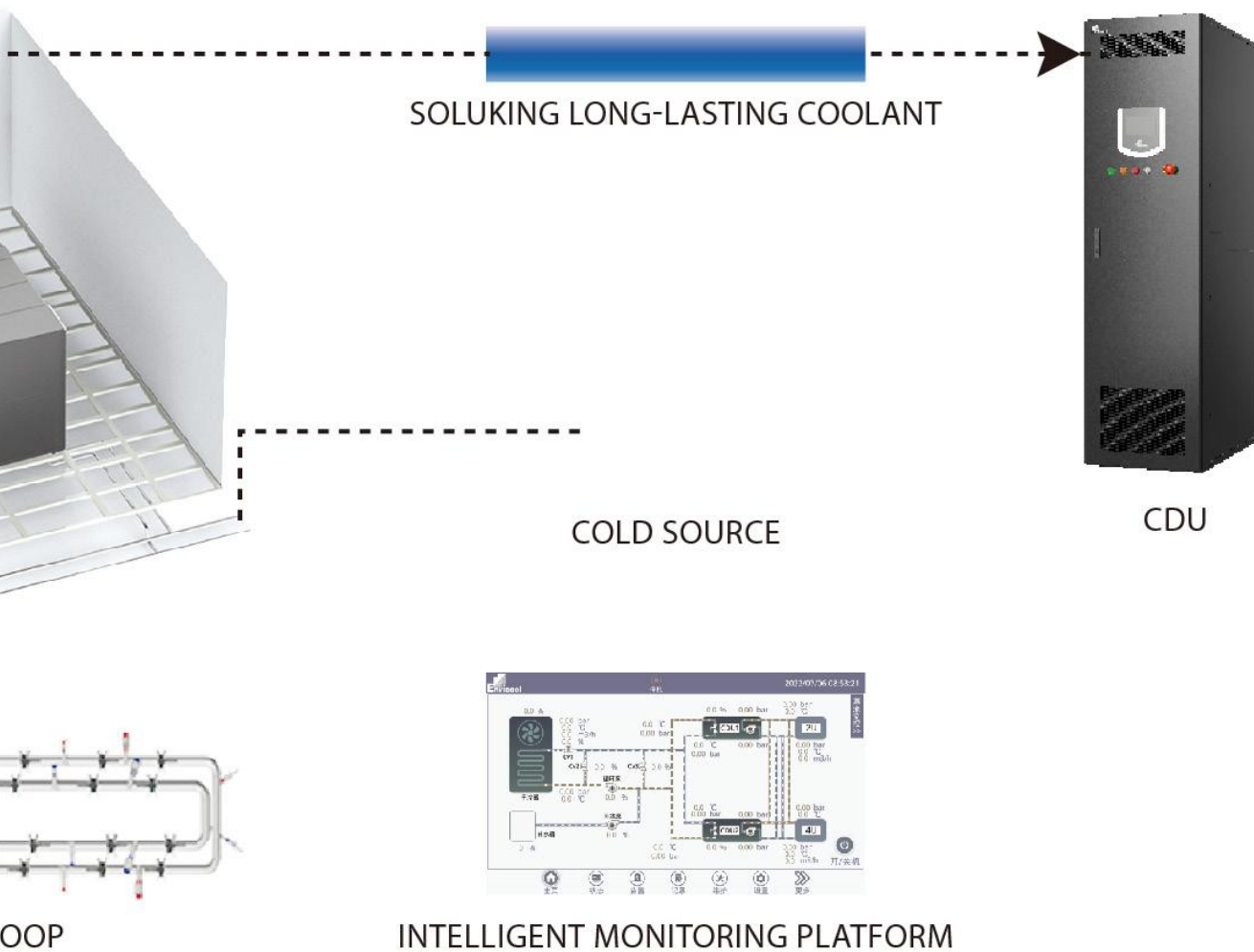


Modular unit design and factory prefabrication to achieve field plug and play, quick deployment and installation



Cold Plate Full Chain Liquid Cooling Solution

- High reliability and integration of automatic replenishment device, leak detection component, anti-condensation control logic, etc. to ensure the safe and stable operation of the unit
- Key components such as water pumps and filters support online maintenance suitable for centralized and distributed liquid cooling systems
- Wide range of cooling capacity, can be automatically adjusted according to the change of terminal load





Rack level Liquid Cooling Solution

Application Scenarios



Small-scale cluster test



Newly-established small data room



High power and density rack cooling



Transformation of existing waterless data center



Edge computing



Flexible rack layout

Advantages



High-density Heat Dissipation

- Supports computation for ≥ 36 branch nodes, with high space utilization
- Supports $\geq 100\text{kW}$ cooling per rack efficiently dissipating heat



Rapid Deployment

- Zero renovation to waterless data centers, the rack itself is a liquid cooling system
- No need for secondary loop to ensure low transformation investment
- No on-site flushing to ensure faster deployment



High Reliability

- Redundant backup of water pumps, PDUs, power supplies, key sensors for higher reliability



Easy to Maintain

- Supports automatic air exhaust and liquid replenishment
- Configurable large-capacity movable replenishment truck to simplify the deployment of the first replenishment operation

Basic Parameters

Medium and Low-density Heat Dissipation Unit: Rack Scale Liquid-to-Air Solution

Technical Specifications of Coolinside In-rack Liquid-to-Air CDU with Cold Plate System

Basic Parameters	Model	XCRow006	XCRow016
	Heat Exchange Capacity (kW)	6	16
	Primary Side Supply Air Temp (° C)	25	
	Airflow (m³/h)	1000	2600
	Secondary Side Supply Liquid Temp (° C)	40	
	Secondary Side Coolant	SoluKing PG25	
	Secondary Side Flow Rate (L/min)	9	24
	Secondary Side Filtration Accuracy	100 mesh	
	Secondary Side Port Type	1.5" chuck	
	Circulating Pump Type	Dual pumps	
	Dimensions W * D * H (mm)	450 * 850 * 175(4U)	450*860*350(8U)
	Applicable Rack	OCP ORV3 liquid cooling rack	
	Power Supply	220 V/50 Hz	

High-density Heat Dissipation Unit: In-row Liquid-to-Air Solution

Technical Specifications of Coolinside In-row Liquid-to-Air CDU

Basic Parameters	Model	XCRow120
	Cooling Capacity (kW)	120
	Inlet Air Temp (° C)	25
	Supply Coolant Temp (° C)	≤ 45
	Coolant	PG25
	Dimensions W * D * H (mm)	600 * 1200 * 2200

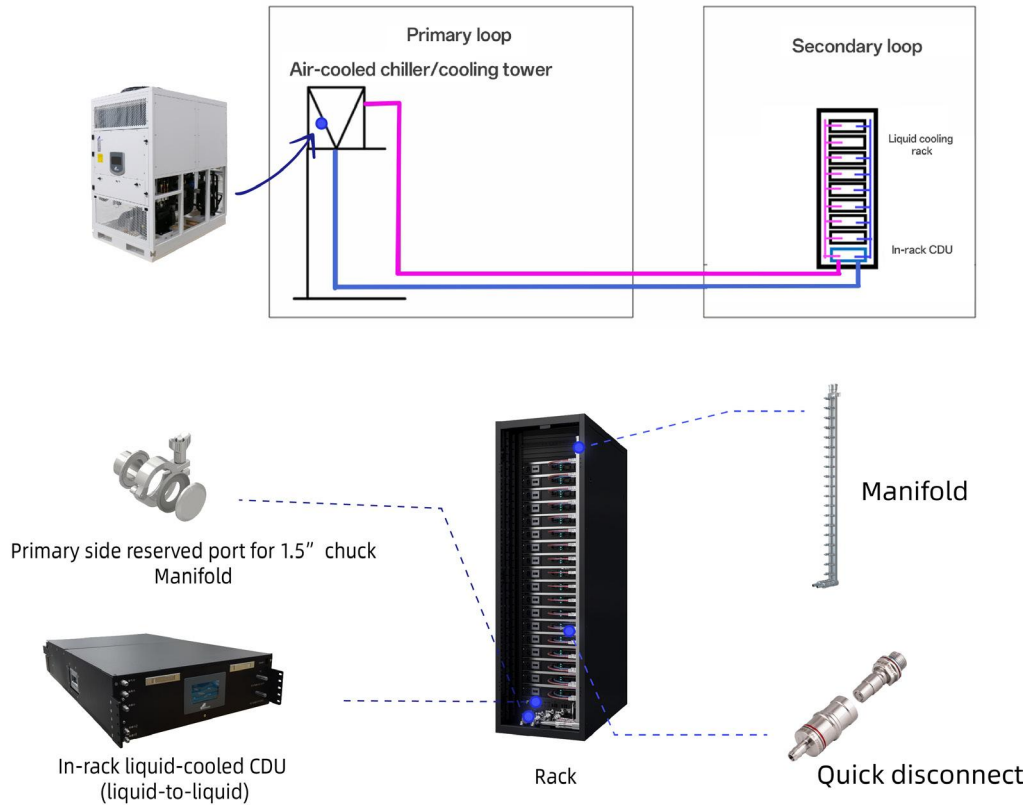
High-density Heat Dissipation Unit: In-rack Liquid-to-Liquid Solution

Technical Specifications of Coolinside In-rack CDU with Cold Plate System

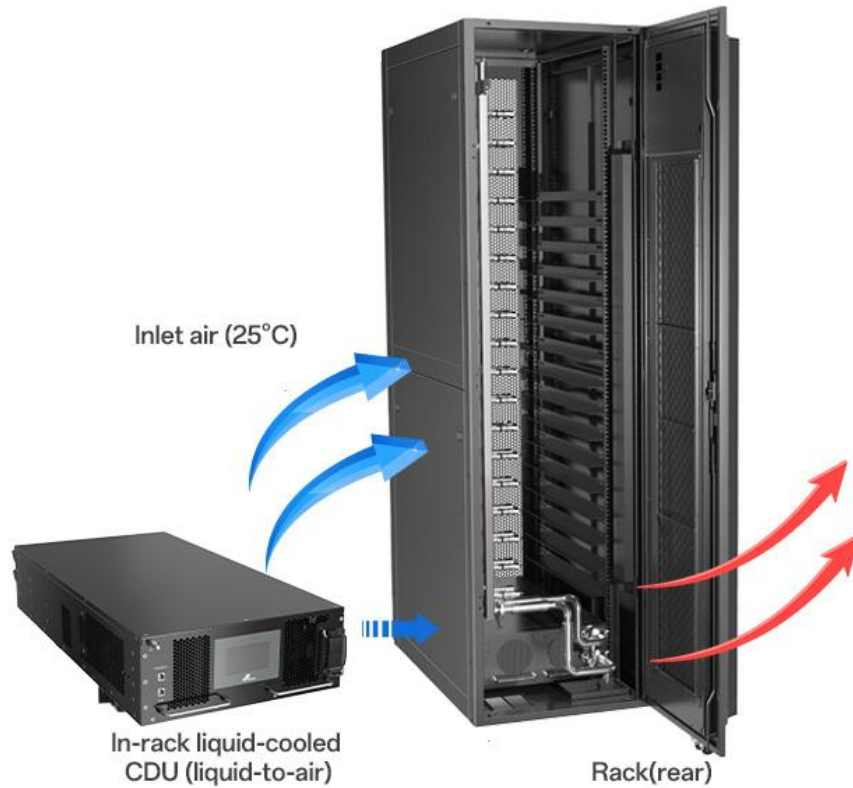
Basic Parameters	Model	XCRow040	XCRow080
	Heat Exchange Capacity (kW)	40	80
	Primary Side Supply Liquid Temp (° C)	35	
	Primary Side Coolant	Softened water	
	Secondary Side Supply Liquid Temp (° C)	40	
	Secondary Side Coolant	SoluKing PG25	
	Secondary Side Supply Liquid Flow Rate (L/min)	60	99
	Secondary Side Filtration Accuracy	100 mesh	/
	Primary Side Port Type	1.5" chuck	
	Secondary Side Port Type	1.5" chuck	
	Circulating Pump Type	Dual pumps	
	Dimensions W * D * H (mm)	450 * 850 * 175	535 * 850 * 165
	Applicable rack	OCP ORV3 liquid cooling rack	
	Power Supply	220VAC	48VDC



In-rack Solution - Liquid-to-Liquid Type



In-rack Solution - Liquid-to-Air Type



Centralized Liquid Cooling Solution



Newly-established medium and large data room



Large-scale cluster test



High power and density rack cooling



Flexible backup redundancy



Advantages



Flexible and inclusive



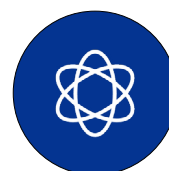
High energy efficiency



Online maintenance



Safe and stable



Intelligent and reliable

Basic Parameters

Technical Specifications of Coolinside In-row CDU with Cold Plate System								
Model	XCRow300	XCRow400	XCRow500	XCRow630	XCRow300-B	XCRow600	XCRow2000	XCRow1400
Rated Heat Exchange Capacity (kW)	300	400	500	630	300	600	2000	1400
Rated Flow Rate (L/min)	450	600	750	945	450	900	3000	1200
Water Pump Type	Single pump				Dual pumps			Four pumps
Primary Side Supply Liquid Temp (° C)	35							
Primary Side Coolant	Softened water, PG25 aqueous solution, and EG25 aqueous solution							
Secondary Side Supply Liquid Temp (° C)	40							
Secondary Side Coolant	SoluKing Long-lasting coolant, PG25 aqueous solution, and EG25 aqueous solution							
Dimensions W*D*H (mm)	600*1200*1200	1000*1400*2200	1200*1200*2200	1200*1400*2200	600*1200*2200	800*2000*2200	1200*2000*2200	1200*1200*2200
Power Supply	480V/400V 3Ph 50/60Hz							
Dual Power Input (Optional)	Mains power/UPS/diesel power							
Storage Environment Temp.	-20~70° C							
Storage Environment Hum.	No condensation at 5%-85% in long term No condensation at 5%-95% in short term							
Altitude	When the altitude exceeds 1000 m, the ambient temperature decreases by 1° C for each additional 220 m. Max. Altitude: 2000m							



Data Center Cooling

- CyberMate DX series CRAC (6 kW-20 kW)
- CyberMate V+ series inverter CRAC
- CyberMate CW series air conditioner for chilled water computer room
- HumidMate series constant humidity machine for computer room
- XRow series efficient row-based air conditioner
- XFlex series modular indirect evaporative cooling system
- XMint efficient evaporative cooling composite multi-system
- XFreecooling efficient inverter turbopowering heat pipe air conditioner
- XStorm series fan wall solution

Energy Storage Cooling

- Air-cooled cooling solution for the power energy storage industry
- BattCool energy storage full chain liquid cooling solution

Liquid Cooling & Electronics Cooling

- Coolinside full chain liquid cooling solution
- Coolinside CDU
- Liquid cooling quick disconnect
- SoluKing long-lasting coolant
- Coolinside liquid cooling server cleaning and inspection line
- Coolinside liquid cooling prefabricated piping

Information Division

- T/H transmitter EVOS series
- 4G IoT gateway series

Data Center Integration

- Intelligent modular data center solution
- UPS solution

Cabinet Cooling

- Charging pile cooling solution
- Industrial cooling products
- Outdoor cabinet cooling products
- Machine tool industry cooling products
- Micro medical chiller

High Precision Cooling

- CyberMate series for laboratory
- CyberMate series for museum
- CyberMate series for archives
- CyberMate series for wine cellar



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