



ADVANCED COOLING TECHNOLOGIES

200 kW AND 15 kW CDUs

THE FUTURE OF AI DATA CENTER COOLING STARTS HERE

Introducing ACT's Two-Phase,
Direct-to-Chip Liquid Cooling CDUs

Meet performance goals without thermal risk. ACT's Two-Phase, Direct-to-Chip CDUs provide dependable cooling today and scale simply from a single rack to full-facility deployments.



200 kW End-of-Row CDU

RELIABLE. SCALABLE. SUSTAINABLE.



15 kW In-Rack CDU

TALK TO AN EXPERT

Scan the QR code or visit 1-act.com/contact



SPECIFICATIONS*

	 END-OF-ROW CDU	 IN-RACK CDU
PERFORMANCE		
Cooling Capacity	200 kW	15 kW
Method/Medium to Cool Refrigerant	Facility water	Facility water
Maximum Inlet Temperature (Water)	≥45°C	45°C
Minimum Inlet Temperature (Water)	7°C	7°C
Maximum Refrigerant Pressure	300 PSIG	300 PSIG
Maximum Pump Differential Pressure	100 PSID	50 PSID
Maximum Refrigerant Temperature	60°C	55°C
Minimum Refrigerant Temperature	20°C	15°C
TECHNICAL		
Dimensions (W x H x D)	24" x 81" x 48"	19" rack compatible (8U)
Weight (Dry/Wet)	1490 lb/1690 lb	199 lb/225 lb
Display	Color touchscreen HMI	N/A
Pumps	2 with N+1 redundancy	2 with N+1 redundancy
Condenser	Liquid-to-liquid	Liquid-to-liquid
Accumulator	Accommodates up to 8 racks	Accommodates 1 full rack
Hot Swappable Connections	Yes	Yes
Refrigerant	Dielectric, low GWP, non-corrosive	Dielectric, low GWP, non-corrosive
ELECTRICAL		
Power Supply	460 V, 60 Hz, 3-phase, 15 A	120 V, 47-63 Hz, 12 A
Pump Capacity	25 GPM at 100 PSI differential pressure	5 GPM at 100 PSI differential pressure
Pump Reliability	Minimum 61,500 hours continuous operation at full load	Minimum 61,500 hours continuous operation at full load

PERFORMANCE & DESIGN INSIGHTS

Two-Phase Cooling Advantage

Ultra-high heat flux, minimal flow. Two-phase cooling outperforms single-phase to cut thermal resistance—and cuts operating expenses and total cost of ownership.

Passive Fluid Control

Precision-engineered flow management minimizes pressure drops, ensuring balanced control and uniform chip temperatures under all loads.

Smart, Connected, Adaptive

Integrated monitoring enables predictive maintenance, dynamic load balancing, and seamless BMS/DCIM integration for optimized operation.

Engineered for Reliability

High-reliability components (pump ≥61,500 hrs), N+1 redundancy, and dielectric refrigerant ensure safe, continuous uptime and simplified service.

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