

Delta InfraSuite Precision Cooling

Air-Assisted Liquid Cooling (AALC) 24/76 kW

Discover the power of Air-assisted liquid cooling (AALC) for HPC/ AI workloads in data centers. AALC offers a closed-loop liquid solution that needs no raised floors or facility piping, and it boasts high cooling density 2.5 times better than air cooling with minimal (< 3%) power consumption. Delta's AALC, with customizable options, ensures reliability through redundant components and hot-swappable features, making it the ideal choice for data center retrofit and scalable growth.



Superior Efficiency

- Excellent heat dissipation with thermal resistance 5 times lower than air cooling
- EC motor design with low energy consumption
- Maximizing cooling density up to 2.5 times from air cooling

Cost Efficient

- No raised floor or facility piping needed
- Low power consumption of less than 3%
- Utilizes existing infrastructure: Room Cooling (CRAH), hot air containment and racks

Robust Reliability

- Redundant design for key components: pump, pump controller, fan and fan controller
- Self-circulating system isolates IT racks from facility water
- Assures coolant quality with integrated 50-micron filter
- Extra coolant tank for coolant compensation
- Hot-swappable pump and fan enable swift replacement and scalability

Technical Specifications

Model	AALC-AC	AALC-DC
Cooling Capacity	24 kW ⁽¹⁾	
Flow Rate	10-50 LPM	
POWER SUPPLY		
Nominal Voltage	380/400/415 Vac, 3P4W+PE	48 Vdc
Frequency	50/60 Hz	
Input Connection Type	Customizable	
DEPLOYMENT		
Coolant Feed	Rear	
Approach Temperature	10°C (18°F)	
Airflow	2895 CFM	
Coolant-side Delta Temperature	10°C (18°F)	
Coolant-side Flow Rate	36 LPM	
Supply Coolant Pressure	8 PSI	
Power Consumption	720 Watt	
COMMUNICATION INTERFACE		
Display	LCD touchscreen	
Port	MODBUS RTU	
PHYSICAL		
Dimensions without Stand (W x D x H)	600 x 1135 x 2280 mm (23.6 x 44.7 x 89.8 in)	
Net Weight	563 kg (1241.2 lb)	
ENVIRONMENT		
Operating Temperature	5 to 35 °C (41 to 95 °F)	
Operation Humidity	10-90%	
CONFORMANCE		
Safety	CE, UL	
FEATURES		
Leak Detection	Standard	
Dual Power Feed/ ATS	Standard	
Networking Remote Monitoring/ Control	Standard	
Individual Fan Fail Sensing	Standard	
Variable EC Fans	Standard	
Common Alarm Relay	Optional	

(1) Customized model available with cooling capacity up to 76 kW, subject to project requirements.

All specifications are subject to change without prior notice.



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