

AIRSYS

FluidCool-X™

Precision Coolant Distribution Unit

FluidCool-X was built for the AI era – with 3-tier redundancy and advanced VFD pump controls, it delivers ultra-efficient cooling with a system pPUEs as low as 1.05.

Available in 500kW, 1MW, and 2MW models, FluidCool-X's modular design supports fast deployment for everything from edge AI pods to large-scale training clusters. The CDU's stainless steel heat exchanger and piping ensure durable, corrosion-resistant, and reliable thermal performance. Backed by over three decades of experience delivering precision cooling systems to critical environments, Airsys' FluidCool-X brings proven reliability and performance to the data center.



Reliability

Triple-Layer
Uptime Protection



High Efficiency

Engineered for Peak
Performance Compute



Modularity

Scalable Growth
As You Compute



Serviceability

Convenient Maintenance
Without Downtime

FluidCool-X™

Technical Specifications



Specification	FCX.05V2	FCX.10V2	FCX.20V3
Dimensions (W x D x H)	1200 mm x 600 mm x 2100 mm 47 1/4" x 23 5/8" x 82 5/8"	1200 mm x 900 mm x 2100 mm 47 1/4" x 35 3/8" x 82 5/8"	1200 mm x 1200 mm x 2100 mm 47 1/4" x 47 1/4" x 82 5/8"
Shipping Weight (kg)	838 kg. 1848 lbs.	1207 kg. 2662 lbs.	1700 kg. 3748 lbs.
Operating Weight (kg)	923 kg. 2035 lbs.	1317 kg. 2904 lbs.	2000 kg. 4409 lbs.
Noise Level	66 dB(A) ⁽¹⁾	70 dB(A) ⁽¹⁾	75 dB(A) ⁽¹⁾
MECHANICAL COOLING			
Nominal Cooling Capacity	500 kW	1000 kW	2000 kW
Max Cooling Capacity	800 kW	1300 kW	2500 kW
WATER SPECIFICATIONS			
Approach Temperature	4° C / 39.2° F		
Pump Quantity	2	2	3
Power @ Nominal Cooling Capacity	6 kW	10.5 kW	21 kW
Power @ Max Cooling Capacity	9 kW	14.5 kW	26 kW
Flow Rate @ Nominal Cooling Capacity	32 m³/h 141 gpm	65 m³/h 286 gpm	130 m³/h 572 gpm
Flow Rate @ Max Cooling Capacity	52 m³/h 229 gpm	48 m³/h 370 gpm	149 m³/h 656 gpm
ELECTRICAL DATA			
Power Supply	460V/3PH/60HZ		
FLA (A)	34.8 A	50.8 A	75.8 A
MCA (A)	50.0 A	80.0 A	100.0 A
MOP (A)	42.5 A	62.5 A	93.8 A
PRIMARY			
Primary Coolant Type	Water/Propylene Glycol		
Primary Pressure Dro	60 kPa 8.7 psid	80 kPa 11.6 psid	120 kPa 17.4 psid
Primary Coolant Temperature Range	7 - 46°C 44.6 - 114.8°F		
Primary Connection	2.5" flange top or bottom	4" flange top or bottom	4" flange top or bottom
Primary Filtration	Optional Mesh 60 Y-strainer for external filtration	Optional Mesh 60 Y-strainer for external filtration	Optional Mesh 60 Y-strainer for external filtration
SECONDARY			
Secondary Coolant Type	Water/Propylene Glycol		
Secondary Head ⁽²⁾	40 m 134 ft		
Secondary Coolant Temperature Range	15-50°C 59 - 122°F		
Secondary Connection	2.5" flange top or bottom	4" flange top or bottom	4" flange top or bottom
Secondary Filtration	Standard 50µm, Optional 25µm filters		
CONFIGURATION			
Control Configuration	Multiple Unit Controller Design		
Color	Black, Optional White		
Dual Power Feeds (ATS)	Optional		

Notes: (1) Noise level at 1m; (2) Converted based on water density