

# FluidCool-X™

## Precision Coolant Distribution

FluidCool-X was built for the AI era. With 3-tier redundancy and advanced VFD pump controls, it delivers 99.999% uptime and ultra-efficient cooling with pPUEs as low as 1.05.

Available in 500kW, 1MW, and 2MW models, its modular design supports fast deployment for everything from edge AI pods to large-scale training clusters. Backed by over two decades of experience delivering precision cooling systems to world-class OEMs in the medical industry, AIRSYS' FluidCool-X brings proven reliability and performance to the data center.



**Reliability**  
Triple-Layer  
Uptime Protection



**Modularity**  
Scalable Growth  
As You Compute



**High Efficiency**  
Engineered for Peak  
Performance Compute



**Serviceability**  
Convenient Maintenance  
Without Downtime

Specification	FCX.05V2	FCX.10V2	FCX.20V3
Nominal Cooling Capacity (kW)	500	1,000	2,000
Max Cooling Capacity (kW)	800	1,300	2,500
Approach Temperature(°C)	4	4	4
Pump Quantity	2	2	3
Power Supply (V/Ph/Hz)	380/3/50		
Power @ Nominal Cooling Capacity (kW)	6	10.5	21
Power @ Max Cooling Capacity (kW)	9	14.5	26
FLA (A)	34.8	50.8	75.8
MCA (A)	50.0	80.0	100.0
MOP (A)	42.5	62.5	93.8
Flow Rate @ Nominal Cooling Capacity (m³/h)	32	65	130
Flow Rate @ Max Cooling Capacity (m³/h)	52	48	149
Noise Level dB(A) <sup>(1)</sup>	66	70	75
Secondary			
Secondary Coolant Type	Water/Propylene Glycol		
Secondary Head (m) <sup>(2)</sup>	40	40	40
Secondary Coolant Temperature Range (°C)	15-50	15-50	15-50
Secondary Connection	2 1/2" Flange top or bottom	4" Flange top or bottom	4" Flange top or bottom
Secondary Filtration	Standard 50µm, Optional 25µm filters		
Primary			
Primary Coolant Type	Water/Propylene Glycol		
Primary Pressure Drop(kPa)	60	80	120
Primary Coolant Temperature Range (°C)	7-46	7-46	7-46
Primary Connection	2 1/2" Flange top or bottom	4" Flange top or bottom	4" Flange top or bottom
Primary Filtration	Optional Mesh 60 Y-strainer for external filtration		
Dimension and Weight			
Length (mm)	600	900	1,200
Width (mm)	1,200	1,200	1,200
Height (mm)	2,100	2,100	2,100
Shipment Weight (kg)	840	1,210	1,700
Operating Weight (kg)	925	1,320	2,000
Configuration			
Control Configuration	Multiple Unit Controller design		
Color	Black, Optional White		
Dual Power Feeds (ATS)	Optional		

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