

EcoCore XCD



The EcoCore XCD is Nautilus's ultra-capacity CDU, delivering up to **10MW** of heat rejection per containerized module. It is prefabricated for rapid deployment and engineered specifically for AI and high-density data centers. The XCD provides ultra-scale capacity with future-forward flexibility.

Features

Design

- Ultra Capacity Liquid Cooling
- Prefabricated Containerized Module
- Integrated pump and filtration redundancy with zero-downtime serviceability for continuous operation.
- Engineered with top-tier components from world leading manufacturers
- Backed by over 35 years of QA expertise from our regional fabrication partners

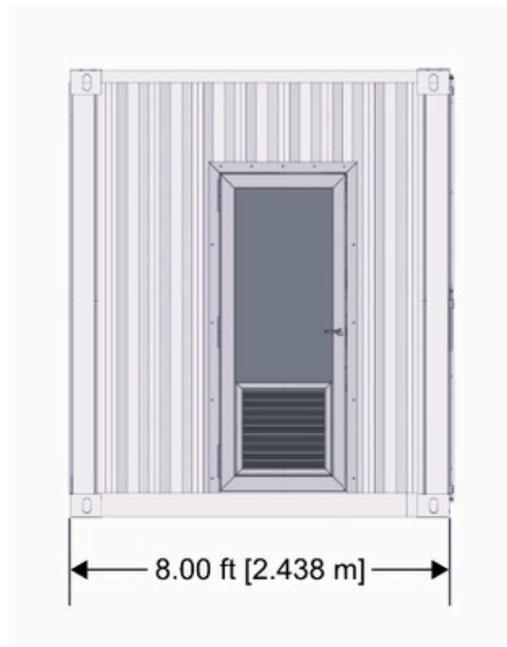
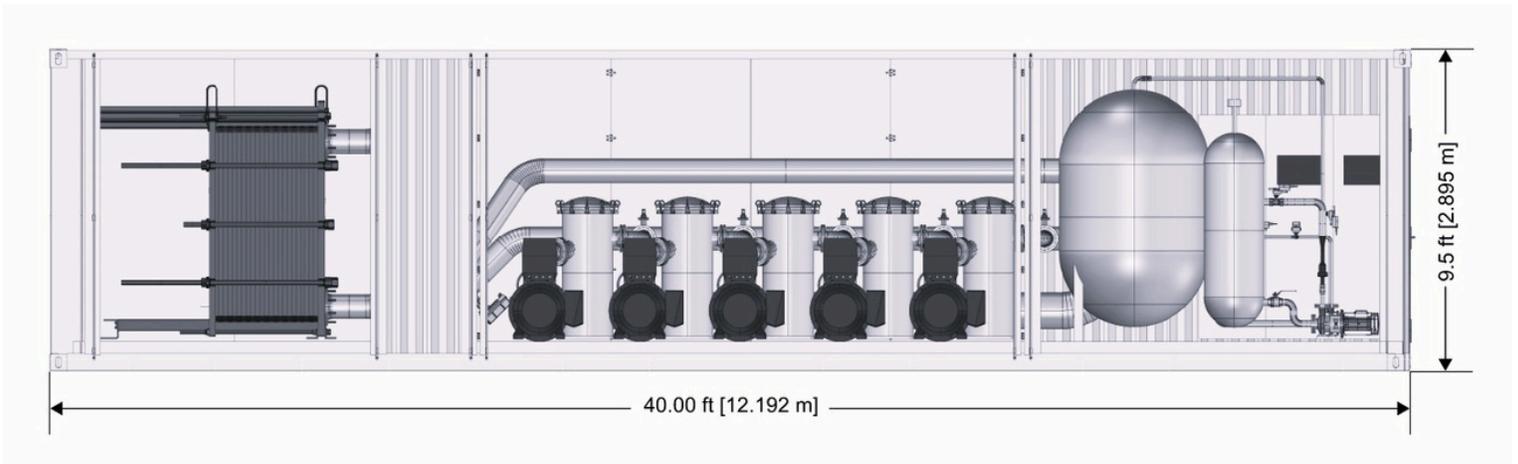
Performance

- Up to 10MW of heat rejection per container
- Integrated degasser and filtration maintain optimal cooling efficiency
- AI-ready flow and pressure

Control & Monitoring

- Customizable performance parameters, setpoints, and alarming
- Automated FWS and TCS flow control for dynamic thermal load balancing
- Local and network-ready HMI interface provides real-time monitoring and system control

EcoCore XCD Unit



EcoCore XCD

Technical Specifications

Cooling Capacity per Module	4000 kW to 10000 kW
Approach [ATD]	1.5°C [2.7°F]
Maximum TCS Flow	253L/S [4010 GPM]
TCS Pressure Head at Maximum Flow	5.1 Bar [74 PSI] (10 bar [145 psi] total available head)
Dimensions	12.1 m × 2.44 m × 2.9 m (39.7 ft × 8.0 ft × 9.5 ft)
Power	400V - 480V 50-60Hz 3-phase dual feeds
Maximum Power Consumption	200 kW
Primary Coolant Type (FWS)	Process Water, Natural Source Water, Water-Glycol Mix [1-25%]
Secondary Coolant Type (TCS)	Process Water Water-Glycol Mix [1-25%]
Primary Connection	300 mm [12 in.] Sanitary, SS316
Secondary Connection	300 mm [12 in.] Sanitary, SS316
TCS Filtration	25µm Full Stream 1µm Side-Stream
FWS Filtration (Optional)	500µm Full-Stream
Redundancy	N+1 Pump and Filter
Integrated Degasser	Yes
Communication & BMS Support	Modbus, OPC UA, SNMP, Redfish

Schematic Diagram

