

High-density EC-Cooling

Scalable Cooling up to 30kW

Powered by Opendate Data

Argent by Opendate high-density EC-Cooling technology is fully redundant and scalable to 30 kW. This actively managed data center-wide cooling distribution system contains the IT heat and eliminates over-provisioning of cooling supply air to create a perfectly controlled and highly efficient IT environment.

EC-Cooling dynamically scales to the IT load, providing real-time airflow consumption detail at the rack level. Maintain control of your cooling supply based on the actual cooling demanded by the IT equipment.

We've been able to monitor physical space and power at the rack level for some time. Now, with EC-Cooling, you can actually make sure you have cooling capacity at the rack level before provisioning equipment!

Product Highlights

Active Rack Containment Cooling - Scalable to 30kW

Pressure-controlled system dynamically scales airflow to match equipment load in a rack.

Achieve up to 100% Utilization of Cooling Infrastructure

Eliminate hot spots and deploy more equipment or racks without adding cooling capacity or introducing water.

Reduce Energy Consumption by Raising Supply Air Temp to Upper ASHRAE Limits

Total separation of supply and return air allows higher supply air temps, which means chilled water temps can be raised, saving additional energy on operating costs.

Deploy in Raised Floor or Slab Environments

Compatible with your current design, or reduce new build-out costs by eliminating the need for a raised floor.

IP Access to Intelligently Manage Growth

Perform real-time cooling capacity assessment to effectively manage equipment adds, moves and changes.

Practical, Low-impact Implementation

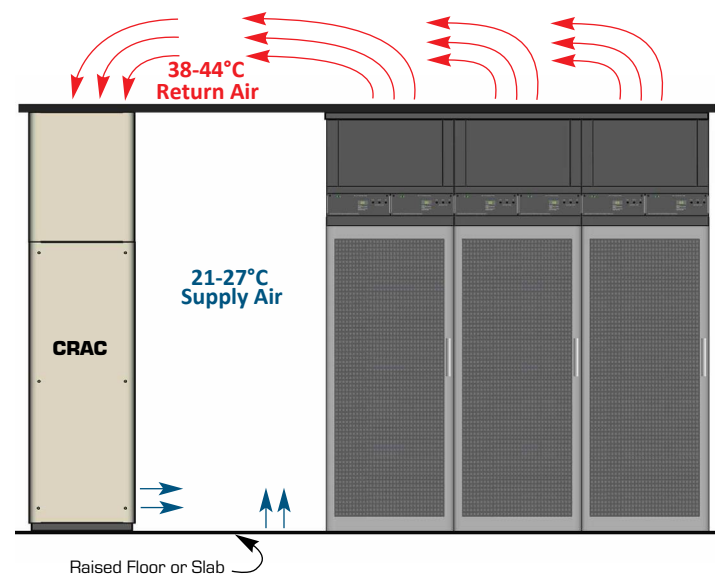
Attach to any rack, communicate with existing management software and deploy without disrupting operations.



Multiple EC-Cooling units with modular ducts installed with digital displays



EC-Cooling units include a chassis, redundant fan modules and a network interface module.



EC-Cooling units dynamically scale airflow to match the cooling load of the equipment in the rack. Separation of supply and return air prevents mixing and improves efficiency of CRAC units.

Design Features

Fully Redundant.

Auto-sensing dual power inputs allow two separate power feeds (A & B) bused to each fan to keep the equipment running.

Pressure Controlled.

EC-Cooling utilizes a pressure sensor located at the back of the rack to control the required air volume necessary to cool the equipment. The rack maintains a zero pressure to prevent leakage.



Pressure Sensor

Hot-swap Fan Modules.

The two fan modules operate at the same speed under normal conditions. If a fan fails, the operating fan module increases the speed to handle the load until another module can be installed.



Hot-swappable Fan Module

Integrated Capacity Display.

Each fan module has a display showing the current operating capacity. Status indicator lights offer quick visual identification of system operating status.



IP Addressable with User-defined Alarms.

EC-Cooling utilizes a networking module to control the system. E-mail alerts are sent when conditions fall outside of the desired operating range for temperature, humidity, or capacity.



Temp/Humidity Sensor



Networking Module

Specifications-10/20/30kW

Dual Input: 90-240 VAC, 50/60 Hz, IEC C14 Connection
Power: 122 watts/ 152 watts/ 290 watts @80% capacity
Efficiency: 96%
Cooling: 1120 CFM/2034 CFM/2750 CFM@100% capacity
Physical: 191.26mm H x 595mm W x 473mm D
Weight: 26.4 kg
Regulation: Pressure based closed-loop PID control
Override: 100% fan speed fault response
Temp: Internal exhaust plus 3 remote temp + humidity
Capacity: Local meter standard
Display: Capacity / Temperature / System Status
Network: HTTP / HTTPS / SNMP / DHCP
Regulatory: UL, cUL 60950, CE
Warranty: 1 Yr

* Product Specifications are subject to change without notice.

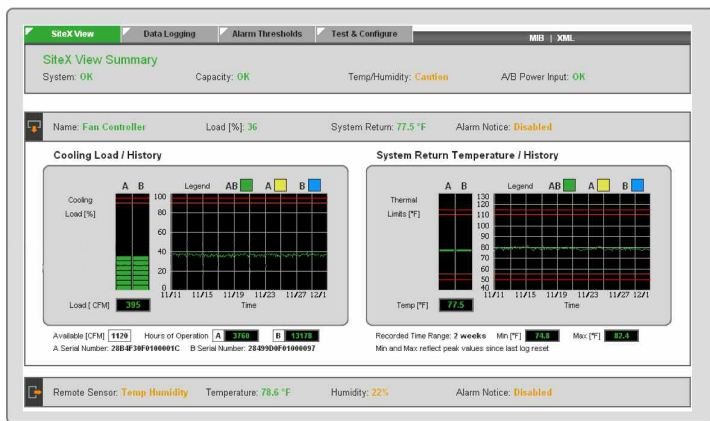


Ordering Information

Part Number	Description
EC-10D System	10kW EC-Cooling System KIT
EC-20D System	20kW EC-Cooling System KIT
EC-30D System	30kW EC-Cooling System KIT

A: EC-Cooling System KIT include chassis x 1, Fan Modules x 2, Network Module x 1, Pressure Sensor x 1, Power Cords x 2, and a Temp/Humidity Sensor x 1.

B: Ducts are ordered separately if required and are available in custom lengths.



Screen shot of graphical user interface included with every system.