

Your Racks Are Your Data Center, So ...TM

Introducing ... The Fire & Ice Closed Rack Data Center (CRDC). The CRDC is a modular, scalable and rapidly deployable self enclosed rack based solution for cooling and protecting your critical IT assets.

2N Cooling ... Two 16 kW AC systems provide the front of all equipment with a constant wall of cold air. Although only a single unit operates at any one time and is fully capable of indefinitely handling the cooling duties, the two units alternate every 12 hours to provide 2N (twice necessary) reliability.



Closed Architecture ... With solid, lockable front & rear doors, and air flow ducts added inside the top and bottom of each rack, your assets are protected from heat, fire and unauthorized access - your racks are your data center.

2N Controls ... Each of the Command Cabinets has its own redundant Control System computer for monitoring of all heat and cooling conditions, door access, power usage and potential fire conditions. So, whether you are protecting 2 racks or 8, you have the reliability of 2N cooling and 2N controls.

Fire & IceTM Closed Rack Data CenterTM

CAPEX Savings ... Why purchase an expensive engineering study to tell you what you may need over the next ten years when you already know what you currently need and can afford? No engineering, no 6-12 month build delay, no raised floor ... only the racks you need now and all placed in existing, standard size office space - saving you valuable time, money and hassle.

Energy Savings ... In addition to being closed racks, the cold air feed and hot air return ducts of the individual racks use a patent pending automated and computer controlled damper system. This feature constantly adjusts air flow in response to the actual heat produced in each rack. The result is that the electrical energy required to cool the racks is kept at the lowest possible levels, saving thousands of dollars every year.

... Cool the Racks – Not the RoomTM

Modular & Portable ... The CRDC's redundant Command Cabinets, each containing 16kW AC systems and Control System computers, are positioned on either end of a row of Eaton - Wright Line racks. If you only need two or three racks now, that's what we'll provide. Then, when you grow, CRDC will grow with you ... up to 16 kW of total cooling. And if your business requires moving to a totally new location, your CRDC can move too.

Fire Protection ... Sixteen circuits are constantly monitored and charted in order to identify abnormal current draw. A spike in current that may indicate a pre-fire condition is automatically brought to the attention of on-site management. If a fire is imminent, the troubled rack is automatically isolated by computer controlled closing of its dampers. When suppression gasses are actually released, the gas is restricted to the one rack and all other racks remain functional.



Scalable from 2 to 8 racks of precisely cooled, secure equipment.

Installation, Service & Parts ... The CRDC racks come preassembled and need only be placed in a row and connected to each other, the power supply, and the cooling lines used for commercial air conditioning systems common through-out the world. This means that when an AC unit requires maintenance or even major service, capable service personnel and the parts they need will be readily available.

For additional information or to receive a quotation for the CRDC meeting your exact needs, contact your approved Fire & Ice channel partner.

Specifications ...

- Redundant 16 kW AC Systems using air cooled condensers, each with twin 2 stage Copeland Scroll compressors, or the building's chilled water system
- Redundant Control System panel computers
- From two to eight 24"W x 48"D x 82"H 2,000 pound rated Equipment Racks
- 35u usable (61.25 inches) per rack
- 220 or three phase Power Distribution
- Individual rack Gaseous Fire Canisters
- All UL Listed components
- U.S. & international patents pending