

Article Overview

Leading manufacturers of cold aisle containment racks for edge data centers include Eaton, Rittal, Vertiv, EDP Europe, and Modular Rack Systems (MRS), offering modular, energy-efficient, and customizable solutions.

Key Manufacturers and Solutions

Eaton provides aisle containment systems that improve cooling efficiency by separating hot and cold air, compatible with 42U, 45U, and 48U racks of standard or wide widths. Their modular kits include roof panels, sliding doors with locks, and adjustable beams, allowing flexible installation and retrofitting without requiring HVAC specialists. Rittal offers a modular, standards-based containment line that integrates with existing racks, cabling, and HVAC systems. Their Essential Micro Edge Data Center solution combines containment with IT infrastructure support, reducing cooling costs by up to 30% and providing scalable, US-supported solutions. Vertiv delivers freestanding, rack-independent aisle containment systems suitable for both raised floor and slab data centers. Their solutions can be deployed before or after rack installation, support various cabinet heights, and integrate with fire suppression systems, simplifying edge deployment. EDP Europe specializes in custom cold aisle containment solutions that adapt to existing data center layouts. Their systems enclose the cold aisle to prevent mixing of cold supply air with hot exhaust air, improving energy efficiency and enabling better temperature control across all servers. Modular Rack Systems (MRS) manufactures high-quality, customizable cold aisle containment systems using aluminum and steel. Their solutions include top panels, swing or sliding doors, and lighting integration, designed to maximize cooling efficiency, reduce operational costs, and extend equipment lifecycle in edge data centers.

Considerations for Edge Data Centers

- o Modularity and Flexibility: Systems should accommodate varying rack sizes and allow future expansion.
- o Energy Efficiency: Effective containment can reduce cooling costs by 25-30% and improve CRAC unit performance.
- o Ease of Installation: Many solutions are designed for quick deployment without specialized contractors.
- o Integration: Compatibility with existing racks, cabling, and HVAC systems is critical for seamless operation.
- o Customization: Some manufacturers offer bespoke solutions to fit unique building layouts or mixed rack environments. These manufacturers provide a range of cold aisle containment solutions suitable for edge data centers, helping optimize cooling, reduce energy consumption, and maintain equipment reliability.

Serveredge offers customisable hot and cold aisle containment solutions designed to improve airflow,



Edge Data Center Cold Aisle Rack Manufacturers

Get expert hot and cold aisle containment solutions for your data centres with Ardmac. Our tailored approach maximises efficiency.

Wall cabinets Customized installations for data centers Protect and maximize your data center investment with solutions designed to

A highly engineered data center cabinet solution that delivers fast, built-to-order configurability, best-in-class strength, and scalability

Step into the future of data management with our cutting-edge Modular Data Center integrated with

Bespoke aisle containment works for both hot and cold aisles. It can be customised to fit any mix of

Hot and Cold Aisle Containment Solutions Racktech is the Australian Distributor of market leading Polargy Hot and Cold Aisle

DAMAC racks, cabinets and aisle containment systems are highly customizable and designed to evolve as

The Edge Data Centre is an innovative integrated data center infrastructure solution by Rittal, specifically designed for mission critical

Cold aisle containment systems use doors at aisle ends, ceiling panels or lids above racks, and structural

Cool Shield(TM) containment offers state-of-the-art hot and cold aisle containment solutions designed to maximize data center

Freestanding, Rack-independent system with the flexibility to maximize efficiency and capacity from the core to the edge for raised

Revolutionary IT Cooling Now you can transform your server rack into a portable, energy-saving server room. EdgeCool by DENSO

For a dedicated edge solution, we recommend our Essential Micro Edge Data Center: a truly modular design that combines

These findings highlight that the aisle containment strategies should not be applied uniformly across facilities, but rather

Hot and cold air containment systems designed to maximize cooling predictability, capacity, and efficiency



Edge Data Center Cold Aisle Rack Manufacturers

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