

High Temperature Resistant Supplier for Server Rack Cold Aisles



Overview

Data Center Aisle Containment Systems | Profile IT Explore 30 hot aisle, cold aisle, structural, door, roof, flexible containment and airflow-control produ.

Key Takeaways

Top manufacturers of high-temperature resistant cold aisle containment systems include Eaton, EDP Europe, Cool Shield, AZE Systems, and NEW SUNPLN Technology Industrial Co., Ltd., offering modular, customizable, and energy-efficient solutions.

Key Manufacturers and Solutions

Eaton (Tripp Lite) provides aisle containment systems that separate hot and cold air to optimize cooling efficiency, improve temperature control, and reduce energy costs. Their modular kits are compatible with standard and wide rack cabinets and can be installed without specialized HVAC contractors, making them suitable for retrofits and new installations.

ED

P Europe specializes in custom Cold Aisle Containment (CAC) solutions designed for existing data centers. Their systems prevent mixing of cold supply air with hot exhaust air, improving CRAC unit efficiency and enabling higher operating temperatures, which is critical for high-density or high-temperature environments. Cool Shield offers modular, turnkey aisle containment systems for both new and existing data centers.

Their solutions ensure consistent supply temperatures to server intakes and allow hot air to return efficiently to AC coils. Cool Shield emphasizes versatility and scalability, supporting single rows to entire facilities.

AZ

E Systems provides both hot and cold aisle containment solutions, including modular ceilings, walls, and end-of-row doors. Their systems are designed for flexibility, retrofitting, and compatibility with raised or non-raised floors, making them suitable for high-temperature server environments.

NEW SUNPL

N Technology Industrial Co., Ltd. is highlighted as a top-rated supplier offering customizable, energy-efficient server racks with hot and cold aisle containment. Their solutions include smart monitoring and rapid deployment options, catering to high-performance computing and AI workloads that generate significant heat.

Considerations for High-Temperature Environments

Modularity and Customization: Systems should adapt to varying rack sizes and layouts. **Energy Efficiency:** Containment solutions that allow higher CRAC temperatures reduce cooling costs. **Compatibility:** Ensure the system integrates with existing racks and infrastructure.

Monitoring: Smart containment with IoT sensors helps track temperature and airflow in real time. **Retrofit Capability:** Many manufacturers offer solutions that can be installed without major construction, ideal for upgrading existing data centers. These manufacturers provide proven solutions for high-temperature resistant cold aisle containment, helping data centers maintain optimal performance, reduce energy consumption, and protect critical IT equipment.

Article Content

Data Center Aisle Containment Systems | Profile IT

Explore 30 hot aisle, cold aisle, structural, door, roof, flexible containment and airflow-control products for data centers. Engineering and installation by Profile

Hot / Cold Aisle Containment

Supports increased reliability and availability of IT equipment by reducing server intake temperatures. Allows for higher rack densities. Prevents hot air

Aisle containment | Airflow management | Eaton

Eaton offers a wide range of partial and total containment solutions that can accommodate hot aisle containment, cold aisle containment and rack-based heat

Cold Aisle Containment | Legrand

By isolating the cold aisle, containment reduces unintended mixing of cold supply air with hot exhaust air, maintaining uniform, predictable temperatures across all racks.

Aisle Containment for Data Centers | Calsak Plastics

By reducing hot/cold air mixing, you can raise supply and chilled-water setpoints, which decreases compressor and fan energy while maintaining safe server inlet temperatures.

Aisle Containment Systems for Hot & Cold Aisle Solutions

Cool Shield Aisle containment solutions reduces server row temperatures in active data centers. Learn more about the benefits of hot and cold containment.

Data Center Hot/Cold Aisle Containment Systems | Eaton

Keep your server rack aisles cool to prolong network equipment life and data center efficiency. Full scale aisle containment solutions. Modular kits for every edge-of

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Cold Aisle Containment

Cold Aisle Containment or CAC is a proven, relatively easy to deploy solution for effectively managing airflow within a data centre. A CAC system surrounds the

Aisle Containment | Vertiv Hot/Cold Aisle Containment Solutions

Freestanding, Rack-independent system with the flexibility to maximize efficiency and capacity from the core to the edge for raised floor and slab data centers. Adaptable to hot and cold aisle containment,

Data center

Common approaches include hot-aisle/cold-aisle containment and the deployment of in-row cooling units, which position cooling directly between server racks to intercept exhaust heat before it mixes

Aisle Containment for Server Rooms and Data Centers

Shop aisle containment solutions at Server Racks Online. Explore hot and cold aisle containment systems, including doors, panels, and ceilings. Improve data center airflow, cooling efficiency, and

Data Center Cold Aisle Containment Curtains

Data Center Cold Aisle Containment Curtains Steel Guard's data center cold aisle containment curtains maximize data center efficiency by directing cold supply air from perforated floor tiles directly to

Cold Aisle Containment

Discover cold aisle containment systems with IP20 protection and modular design for data centers. CE certified, customizable, airtight storage solutions.

Data Center Cooling Systems and Cold Aisle Technology

Cold aisle containment systems offer: Focused cooling at the rack Cools higher temperature loads Minimizes cold and hot air mixing Reducing energy consumption and maximizing

Data Centre Cooling: Hot Aisle and Cold Aisle Design

Data Centre Cooling: Hot Aisle and Cold Aisle Design Data centres have become an integral part of today's technological landscape, used to store, process and manage vast amounts of digital

Server Rack Cooling Solution: 7 Targeted Strategies

Without a tailored server rack cooling solution, concentrated thermal load leads to hot spots, server throttling, hardware failures, and costly downtime.

Hot & Cold Aisle Containment Systems For Data Centers by Cool Shield

Aisle containment is an airflow management system that completely separates the cold supply airflow from the hot equipment exhaust air. This ultimately creates an even and consistent supply

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