

Hot and Cold Aisle Wall-Mounted Equipment Manufacturers for Computer Rooms



Overview

Hot and cold air containment systems designed to maximize cooling predictability, capacity, and efficiency at the rack, row or room level.

Key Takeaways

Leading manufacturers of hot and cold aisle containment systems include EDP Europe, Eaton, Ardmac, Armstrong, and Maysteel Industries, offering modular, customizable, and turnkey solutions for data centers. Key Manufacturers and SolutionsEDP Europe specializes in bespoke hot and cold aisle containment systems for data centers of all sizes. Their solutions are modular, scalable, and can be floor-standing or ceiling-suspended.

ED

P provides both Cold Aisle Containment (CAC) and Hot Aisle Containment (HAC) systems, designed to prevent hot and cold air mixing, improve cooling efficiency, and reduce energy costs. They offer global support with installation teams in the UK, Europe, and the USA, and their systems accommodate varying rack heights and future expansion. Eaton offers aisle containment systems that create a controlled environment within the aisle, improving cooling efficiency and equipment performance.



Their systems are compatible with standard rack sizes (42U, 45U, 48U) and widths (600 mm or 750 mm), and installation does not require specialized HVAC contractors. Eaton's solutions include sliding double doors with key locks and clear roof panels for monitoring and security. Ardmac provides ground-supported and ceiling-supported containment assemblies for data centers, with pre-fabricated HAC modules tailored to client rack layouts.

Their modular approach allows for off-site assembly, reducing on-site labor and improving safety. Ardmac's systems include service support beams for integrated busbars and other services, ensuring seamless integration with existing infrastructure. Armstrong delivers high-performance aisle containment solutions with Cool Shield™ panels, modular partitions, and containment doors.

Their systems are designed for long-term durability, energy efficiency, and flexibility in both new builds and retrofits. Armstrong emphasizes American-made reliability and scalable designs to support future high-density cooling upgrades. Maysteel Industries (DAMAC solutions) offers custom-engineered hot and cold aisle containment systems with vertical panels to isolate hot aisles and direct exhaust air efficiently.

Their turnkey approach provides a single point of contact for design, manufacturing, and delivery, ensuring project timelines are maintained. Maysteel's systems are suitable for both new builds and retrofits, with global sourcing capabilities for critical materials.

Considerations for Selection

Customization: Ensure the manufacturer can tailor containment modules to your rack layout, height, and room dimensions. **Modularity:** Modular systems allow for future expansion and easier maintenance. **Installation Support:** Some manufacturers provide turnkey installation, while others offer kits for self-installation.

Energy Efficiency: Proper containment reduces Power Usage Effectiveness (PUE) and lowers operating costs. **Access Control:** Sliding doors, locks, and clear panels improve security and monitoring. These manufacturers provide a range of wall-mounted, ceiling-supported, and floor-standing containment solutions suitable for computer rooms and data centers, helping optimize cooling, reduce energy consumption, and extend equipment lifespan.

Article Content

Aisle Containment | Modular Cleanroom & Data Center Containment ...

Depending on your facility's layout, Armstrong Aisle Containment Solutions offer both Hot Aisle Containment (HAC) and Cold Aisle Containment (CAC) systems to suit new builds or retrofit

Hot/Cold Aisle Containment | Data Center Containment Systems

Hot and cold air containment systems designed to maximize cooling predictability, capacity, and efficiency at the rack, row or room level. Get flexible and cost-effective rack and containment

Aisle Containment | Vertiv Hot/Cold Aisle Containment Solutions

Find out how to improve your data center infrastructure efficiency, using the cold aisle containment or hot aisle containment solutions from Vertiv.

Accelelevation | Custom data center containment systems

Following a collaborative, customer-driven approach, we provide the best containment options for each project. Whether ceiling hung or integrated with aisle structure, our containment solutions are

Altimir - Data Center Solutions

Altimir designs, fabricates, and installs energy-efficient, custom-engineered Hot Aisle and Cold Aisle Containment Systems. Recognized for the quality of its products, the company's products are

Hot & Cold Aisle Containment Systems For Data

Adapt Versatile Aisle Containment Solutions for Both New and Existing Data Centers. Cool Shield™ products provide customers with versatile, turnkey aisle

Aisle containment | Airflow management | Eaton

By preventing hot and cool air from mixing, our solutions create a controlled environment that maximizes the performance and lifespan of your IT equipment. Our products are versatile and customizable,

Aisle Containment | Faztek Industrial Solutions

Hot and cold aisle containment systems made from Faztek's aluminum extrusion profiles are not only flexible but fully scalable allowing your containment system to grow as you do.

Custom Data Center Containment Solutions

AIRSEAL is 100% focused on designing, manufacturing, and installing the highest quality, best value containment systems for Data Center Hot Aisle and Cold Aisle bypass airflow containment, and

Hot and Cold Aisle Containment Solution | Legrand

Effective aisle containment is critical to maintaining peak data center cooling efficiency. By creating a physical barrier between cold supply air and hot exhaust

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Hot Aisle Containment | Legrand

By channeling hot exhaust away from equipment and toward cooling, data centers can maintain a stable operating temperature and reduce operational costs. Benefits: Increased Energy Efficiency: By

Data Center Aisle Containment Systems | Profile IT Solutions

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

Aisle Containment | Modular Cleanroom & Data Center Containment ...

Enhance airflow control and energy efficiency in data centers, laboratories, and cleanroom environments with Armstrong Aisle Containment Ceilings & Walls. Our modular systems

Cold Aisle Containment in Data Centers | Subzero

Cold aisle containment systems use doors at aisle ends, ceiling panels or lids above racks, and structural frames to create enclosed zones where cold supply air

Data Centre Cooling: Hot Aisle and Cold Aisle Design

The hot aisle/cold aisle configuration ensures a consistent supply of cool air, reducing the likelihood of equipment failures due to overheating. Better airflow

Hot Aisle vs Cold Aisle in Data Centers: Technical Impact, ROI, and ...

What Are Hot Aisle / Cold Aisle Configurations? Data centers are ovens if left unmanaged. Hundreds, sometimes thousands of servers pump out heat — and your HVAC doesn't

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