

Hot aisle equipment manufacturers for computer rooms



Overview

Hot aisle containment in data centers can double the cooling capacity & increase data center efficiency by 30% or more.

Key Takeaways

Leading manufacturers of hot aisle containment systems include Profile IT Solutions, Accelelevation, Cool Shield, AIRSEAL, and Faztek, offering modular, customizable, and energy-efficient solutions for data centers.



Profile IT Solutions provides a wide range of hot aisle containment products, including rack-aligned enclosures, floor-supported frames, and lightweight modular partitions. Their systems are designed for high heat-load racks, close-coupled cooling, and flexible integration with cable trays, busways, lighting, and environmental sensors, supporting both hot aisle and cold aisle strategies . Accelelevation specializes in custom containment systems tailored to the unique layout of each data hall. Their solutions include ceiling-hung or integrated aisle structures, freestanding panels, sliding doors, and hinged doors. These systems are designed for durability, easy access, and energy efficiency, potentially reducing energy costs by up to 10% annually . Cool Shield offers turnkey hot and cold aisle containment solutions for both new and existing data centers. Their modular systems optimize airflow management, maintain consistent supply temperatures, and reduce power consumption. Cool Shield is backed by the expertise of Worthington Armstrong Venture, providing high-quality, customizable aisle containment products . AIRSEAL focuses exclusively on containment systems for data centers and modular cleanrooms. They provide custom-built solutions using proprietary doors, hard panels, or hybrid curtain systems. AIRSEAL emphasizes strength, flexibility, ease of installation, and energy efficiency, with in-house manufacturing ensuring fast lead times and precise quality control . Faztek manufactures hot and cold aisle containment systems using t-slotted aluminum frames and panel profiles. Their solutions are scalable, flexible, and customizable, with options for self-closing doors, panel gaskets, and various fastening methods. Faztek's systems are designed to enhance cooling efficiency and maintain optimal server performance .

Considerations for Selection

When choosing a hot aisle containment system, consider:

- Room layout and rack density: Determines whether hot aisle, cold aisle, or hybrid containment is optimal.
- Cooling architecture: Integration with in-row or overhead cooling units.
- Accessibility: Doors, sliding panels, and modular components for maintenance.
- Energy efficiency: Systems that reduce cooling costs and improve airflow management.
- Customization and scalability: Ability to adapt to future expansions or unique room constraints. These manufacturers provide both standardized and fully customized solutions, ensuring that computer rooms and data centers can maintain optimal temperatures, improve equipment performance, and reduce energy consumption.

Article Content

Custom Data Center Containment Solutions

AIRSEAL is 100% focused on designing, manufacturing, and installing the highest quality, best value containment systems for Data

Aisle Containment Systems for Hot & Cold Aisle Solutions

Which is better, hot aisle containment or cold aisle containment? The short answer is that both HAC and CAC are

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Custom engineered hot and cold aisle containment solutions that keep your data center running smoothly and make your build-out

What are hot and cold aisles in the data center?

Hot and cold aisles in the data center are part of an energy-efficient layout for server racks and other computing

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By channeling hot exhaust away from equipment and toward cooling, data centers can maintain a stable operating temperature and

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Over 50 years as a leading pioneer in cooling solutions for reliable applications and data centers. Energy

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The Vertiv™ Aisle Containment System is a free-standing, rack-independent solution designed to simplify aisle containment in data

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Hot Aisle Containment vs. Cold Aisle Containment:

Implementation of both hot and cold aisle containment does not reduce the volumetric flow

Hot / Cold Aisle Containment

Supports increased reliability and availability of IT equipment by reducing server intake temperatures.

Aisle Containment

Open Aisle Containment Traditional open aisle data centres use perimeter PAC (precision air conditioning)

Hot Aisle Containment in Data Centers | Subzero Engineering

Hot aisle containment in data centers can double the cooling capacity & increase data center efficiency by 30% or more. [Learn more](#)

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Design flexible hot and cold aisle containment systems with Faztek's T-slot aluminum extrusion. Scalable, custom-built solutions for

Hot Aisle Containment: How It Works and What It Costs

How hot aisle containment cuts cooling bills, how it compares to cold aisle, and what a retrofit costs. A clear guide for

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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

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Custom engineered hot and cold aisle containment solutions that keep your data center running smoothly and make your build-out

Aisle containment system buying guide

An aisle containment system is a simple way to improve cooling efficiency in hot aisle/cold aisle rack configurations. Essentially

Move to a Hot Aisle/Cold Aisle Layout

A Time-tested Technique The hot aisle /cold aisle data center layout was originated by IBM in 1992 and it is one of the oldest ways to

Hot Aisle Containment vs. Cold Aisle Containment:

Implementation of both hot and cold aisle containment does not reduce the volumetric flow

Hot / Cold Aisle Containment

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

Aisle Containment

Open Aisle Containment Traditional open aisle data centres use perimeter PAC (precision air conditioning) or CRAC (computer room

Hot Aisle Containment in Data Centers | Subzero Engineering

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Depending on your facility's layout, Armstrong Aisle Containment Solutions offer both Hot Aisle Containment (HAC)

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