

Cold Aisle Equipment Manufacturers for Computer Rooms



AI Overview

Leading manufacturers of cold aisle containment systems include Subzero Engineering, Armstrong, Vertiv, AZE Systems, and Eaton, offering solutions to optimize data center cooling and energy efficiency. Key Manufacturers and Solutions Subzero Engineering specializes in cold aisle containment (CAC) systems that isolate cooled supply air from hot exhaust air, improving energy efficiency and reducing hotspots in data centers. Their systems use doors, ceiling panels, and structural frames to create enclosed zones, ensuring IT equipment operates within manufacturer specifications and ASHRAE guidelines, with measurable energy savings. Armstrong provides aisle containment solutions under the Cool Shield™ brand, offering both cold and hot aisle containment. Their systems include floor-mounted structural supports, framed panels, and modular partitions designed for long-term performance, scalability, and flexibility in new builds or retrofits. Vertiv offers adaptable hot and cold aisle containment systems that are freestanding and rack-independent. These systems can be deployed before or after rack installation, simplifying setup and supporting a variety of rack heights. Vertiv also provides technical guidance and reseller support for complex projects. AZE Systems delivers modular hot and cold aisle containment solutions, including ceilings, walls, and end-of-row doors. Their systems are designed to improve energy efficiency, prevent hot and cold air mixing, and accommodate different server rack configurations. Eaton (Tripp Lite) provides modular aisle containment kits with adjustable beams, roof panels, sliding doors, and magnetic filler panels. Their systems are compatible with standard and wide racks, support retrofits, and can reduce energy requirements by up to 25% while being easy to install without specialized contractors. Considerations for Select...

Article Content

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.

What are hot and cold aisles in the data center?

Using hot and cold aisles in a data center is part of an energy-efficient layout for server racks and other computing equipment. Find out more here.

Hot & Cold Aisle Containment Systems For Data

Cool Shield™ products provide customers with versatile, turnkey aisle containment systems for new or existing critical spaces. Our offerings range from a single row

Hot / Cold Aisle Containment

Designed for server and network cabinets located within server rooms and data centres, cold aisle containment maximises cooling predictability, capacity, and

Cold Aisle Containment | Legrand

By maintaining consistent, predictable temperatures, cold aisle containment minimizes thermal stress and reduces the risk of overheating, improving reliability and extending equipment lifespans.

Hot and Cold Aisle Containment: What You Need to Know

Hot aisle containment systems isolate the hot aisle using a similar enclosure system to that of a cold aisle with a sealed door for access. This arrangement is preferred in newer systems and

Hot Aisle Containment vs. Cold Aisle Containment:

Conclusion If a computer room was configured in such a way that either hot aisle containment or cold aisle containment could be implemented,

A Look at Data Center Cooling Technologies

Legacy Cooling and the End of Raised Floor For decades, computer rooms and data centers utilized raised floor systems to deliver cold air to servers. Cold air from a computer room air

Hot Aisle Containment | Legrand

Hot aisle containment Is the most common method for separating hot and cold air. By channeling hot exhaust away from equipment and toward cooling, data centers can maintain a stable operating

Hot and Cold Aisle Containment: What You Need to Know

A cold aisle containment system is a budget-friendly option. Containing cold aisles is easy to do with an older space, whereas hot aisle containment systems often require more

Cold Aisle Containment

EDP Aisle Containment systems create a controlled environment that contains cold air and optimises cooling supply to IT racks. EDP supplies all systems with

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 Aisle Containment Systems | Profile IT

Specify complete aisle containment systems for data centers, edge facilities and high-density compute rooms. Compare configurations, build a shortlist and send

ASHRAE TC9.9 Data Center Power Equipment Thermal Guidelines

vironmental areas: ballroom spaces, hot aisles, cold aisles, and grey areas. Many data center designs have computer rooms where cold air is distributed through a raised floor system tha

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

Built for Efficiency Cool Shield™ Aisle Containment Solutions Cool Shield's aisle containment solutions feature a comprehensive solution widely used by critical facility managers within the industry. We

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

Hot Aisle vs. Cold Aisle Containment for Data Centers

Temperature and humidity need to be carefully controlled to protect equipment, minimize failures, and extend the lifespan of your data center components. Today's two main data containment

Armstrong Data Center Containment and Ceiling Systems | Armstrong ...

Optimize data center airflow and efficiency with Armstrong hot & cold aisle containment and structural ceiling solutions built for performance and adaptability.

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

Cold Aisle Containment in Data Centers | Subzero

With cooling provided through a raised floor, this cold aisle containment project uses rigid wall panels in conjunction with the Polar Cap 2 roof system to provide

Hot / Cold Aisle Containment

Sliding Doors offer data centers aisle-end containment in just minutes and without the need for contract labor. The one-tool design allows for quick and easy

Cold Aisle Containment | Legrand

Cold aisle containment creates an enclosed corridor in front of server cabinets, ensuring that the coldest air goes directly into equipment intakes. By isolating the cold aisle, containment reduces unintended

Pioneering sustainable aerospace | Airbus

Airbus designs, manufactures and delivers industry-leading commercial aircraft, helicopters, military transports, satellites, launchers and more.

Cold Aisle Containment

How Cold Aisle Containment Works The cold aisle containment system encloses the cold aisle and prevents the mixing of cold air with hot exhaust air. This lets hotter

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

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

What is Aisle Containment? Aisle containment is a critical airflow management strategy that separates cold supply air from hot exhaust air within a data center. This separation ensures:

Computer Room Air Conditioning & Air Handling

Hot aisle containment captures the hot exhaust air from IT equipment and prevents from mixing with cool air. The front of IT equipment is accessed in the external cold aisle.

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 save energy in the data center. 1 Hot aisle/cold aisle layout involves

Data Center Cooling | Schneider Electric United States

Data center cooling technologies are designed to transport heat energy from the IT environment to the outside atmosphere. We provide integrated cooling systems and solutions ranging from chiller and

Contact Us

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