

RIVO MULTITRADE OPTICAL SYSTEMS

Flame-retardant door-to-door transportation for cold aisle in computer room



Overview

Hot / Cold Aisle Containment Sliding Doors offer data centers aisle-end containment in just minutes and without the need for contract Data Center Cold Aisl.

Key Takeaways

Flame-retardant cold aisle containment can be achieved using modular doors, walls, and ceiling panels designed to isolate cold air, prevent hot air recirculation, and integrate with fire suppression systems. Door Options for Cold Aisle Containment

Swing and sliding doors are commonly used to seal the ends of cold aisles. Products like Upsite AisleLok Swing Doors are made from flame-rated materials and can be installed quickly with minimal disruption, using tools like Magswitch® technology for attachment to end-aisle cabinets . Sliding doors offer similar benefits, allowing rapid installation and removal without drilling, while maintaining airflow separation and visibility through clear polycarbonate panels .

Ceiling and Wall Panels



Ceiling panels span the top of racks to prevent mixing of hot and cold air. Options include shrink-away panels that drop away at high temperatures (e.g., 165°F) to allow fire suppression systems to operate, and mechanical ceilings that link directly to fire suppression systems for redundancy . Modular walls and filler panels can close gaps between racks or around obstacles, maintaining containment and airflow efficiency . Polycarbonate panels of 3–4.5 mm thickness are commonly used for rigid walls, providing both flame resistance and visibility .

Fire Safety Integration

Cold aisle containment systems can incorporate fusible links or heat-activated panels that respond to elevated temperatures, ensuring that fire suppression systems are triggered while maintaining containment under normal conditions . This integration is critical for data center safety and compliance with fire codes.

Installation and Flexibility

Modern containment systems are modular and scalable, allowing for floor-standing or ceiling-suspended configurations. They can be customized for varying aisle widths, rack heights, and future expansion needs . Quick-install designs reduce downtime and allow for easy reconfiguration as the data center evolves .

Benefits

- Improved cooling efficiency by isolating cold air and preventing hot air recirculation
- Energy savings through higher set point temperatures and reduced fan speeds
- Enhanced IT equipment reliability by maintaining lower intake temperatures
- Fire safety compliance with flame-retardant materials and heat-activated panels By combining flame-rated doors, modular walls, and ceiling panels, data centers can achieve effective cold aisle containment that optimizes cooling, supports energy efficiency, and integrates seamlessly with fire suppression systems.

Article Content

Hot / Cold Aisle Containment

Sliding Doors offer data centers aisle-end containment in just minutes and without the need for contract

Data Center Cold Aisle Containment Curtains

Steel Guard cold aisle containment curtains handle high thermal loads of up to 10–15kW with a raised floor

Data Center Aisle Containment | Polycarbonate & PVC Barriers ...

Our materials meet stringent flame and smoke resistance standards, critical for protecting assets in the event of an emergency. Ideal

Data Center Curtains | Hot & Cold Aisle Containment Solutions ...

We designed our AirBlock line of data center doors to meet the challenges of hot aisle containment and cold aisle isolation in the

Containment Curtains | Hot & Cold Aisles | Subzero Engineering

Engineered for easy design and installation. The Subzero Engineering Strip Door is the low-cost option for closing the end of the

Aisle Containment Solutions | Maysteel Industries

This solution caps cold air at the tops of cabinets and across the aisles, and directs it onto densely populated racks using doors

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

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

Containment Strip Doors | Hot & Cold Aisles | Subzero

Product Tech Sheet ESSENTIAL CURTAIN CONTAINMENT High-grade aluminum track, UL/FM rated fire

Hot & Cold Aisle Containment Panels

Hot and Cold Aisle Containment Panels Plastic panels play a vital role in containing and protecting server systems (hot or cold) in

What are hot and cold aisles in the data center?

Hot/cold aisle layout By contrast, when racks are grouped so that heating and cooling sides alternate, it creates hot

Data Center Curtains | Hot & Cold Aisle Containment Solutions ...

Data Centers and Equipment Rooms Anti-Static Data Center Containment Curtains, Doors, and Partitions - The Ideal Solution for

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

Cold / Hot Aisle Containment & Fire Protection | MEP Fire

This contained approach is recognised as hot aisle/cold aisle configurations. For reasons of energy efficiency and

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

Enhance airflow control and energy efficiency in data centers, laboratories, and cleanroom environments with

Hot Aisle Containment | Legrand

Legrand hot aisle containment solutions optimize airflow, reduce energy consumption, and ensure peak performance for critical

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CURTAIN CONTAINMENT Rack Hat curtain and Strip Door containment systems are the premier low-cost

Hot vs Cold Aisle Containment: Which Datacenter Cooling Strategy Is ...

Fire suppression systems may require modification to accommodate the containment structures, adding complexity

Cold Aisle Containment: The Best Option?

What Is Cold Aisle Containment? Cold Aisle Containment, also referred to as CAC, is a system that isolates a cooled

Hot and Cold Aisle Containment Systems: How They Work and Why

Hot aisle containment (HAC) and cold aisle containment (CAC) are the most efficient ways of preventing your servers

Hot and Cold Aisle Containment: What You Need to Know

Aisle containment is a physical means of separating hot (exhaust) and cold (supply) air. It can be accomplished via

Aisle Containment May Hinder Server Room Fire Protection Systems

Consult a professional to ensure that your aisle containment system's high temperatures don't create a hazard when

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

DATA CENTER AISLE CONTAINMENT | Gordon Inc

Data Center Aisle Containment provides the industry solution for controlling cold or hot air in the center & improving the appearance

Hot Aisle Containment vs. Cold Aisle Containment ...

For clarification, cold aisle containment involves doors on the ends of the cold aisles and some form of partitions or

Temperature control

Ambient/room temperature shipping For shipments that can't get too hot or too cold, we provide packaging and transportation

Hot Aisle vs Cold Aisle Containment Explained (Data Center Cooling ...

Hot aisle and cold aisle containment are foundational concepts in data center design. When implemented correctly,

2024 Final Draft GCCA Cold Chain Best Practices Guide Global

The Cold Chain - Transportation Best Practices guide provides current safe food transportation best practices. It is focused on

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As you may be aware, various cold/hot aisle containments exist, and understanding which system works best for your

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Data center containment curtains by Trax deliver industry-leading hot and cold aisle containment curtain solutions. Request your free

CONTAINMENT SYSTEM

High energy costs and accelerated energy consumption has forced data center managers to implement strategies to achieve

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

