

Manufacturers of Explosion-Proof Types for Hot and Cold Aisles



Article Overview

Leading manufacturers of hot and cold aisle containment systems include Nucor Data Systems, Accelelevation, Armstrong, Maysteel, and Ardmac, offering customizable, modular solutions suitable for high-performance and potentially hazardous environments.

Key Manufacturers and Offerings

1. Nucor Data Systems (NDS) NDS provides the ADVANCED AISLE™ Containment System, designed for both retrofit and new data center builds. Their systems are modular, with sliding or swinging doors, and can accommodate aisle widths from 36" to 96". NDS emphasizes cost-effective, site-friendly solutions with optional soft self-closing mechanisms and custom color options, making them adaptable for specialized environments including potentially high-risk areas . 2. Accelelevation Accelelevation manufactures customized containment systems for hot and cold aisles, including ceiling-hung and freestanding panels. Their solutions feature modular sliding doors, soft-close mechanisms, and reinforced panels capable of withstanding increased containment pressure. They offer full vertical integration, allowing for custom heights, widths, and configurations, which can be tailored for industrial or explosion-prone environments . 3. Armstrong Aisle Containment Armstrong offers Cool Shield™ systems, including floor-mounted structures, framed panels, modular partitions, and containment doors. These systems are designed for airtight separation of hot and cold airflows, supporting high-density cooling and long-term durability. Armstrong emphasizes premium-grade materials and scalable designs, which can b...

Article Content

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Hot & Cold Aisle Containment Explained | AMCO Guide

Learn the science behind hot and cold aisle containment and how it improves airflow management, cooling efficiency, and

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Hot Aisle Containment | Legrand

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

Apr 19, 2026

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

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

Sep 10, 2025

What are hot and cold aisles in the data center?

In its simplest form, hot/cold aisle data center design involves lining up server racks in alternating rows, with cold air

Feb 03, 2026

Accelelevation | Custom data center containment systems

Accelelevation containment systems are customized for the unique data hall environment and are designed to separate cold supply

Jul 30, 2025

Explosion-Proof & Hazardous Location Cold Storage | LengdiCold

What industries require explosion-proof cold storage? Key industries include chemical manufacturing, petrochemical plants,

Nov 10, 2025

Aisle containment system buying guide

Aisle containment system buying guide Discover the key factors to consider when choosing a hot aisle/cold aisle containment

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Aisle Containment Systems Physical Containment Systems ...

Aisle Containment Systems by Vertiv™ Aisle Containment is the logical extension of the hot aisle/cold aisle concept of data center

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Hot and Cold Aisle Containment Solution | Legrand

By creating a physical barrier between cold supply air and hot exhaust air, containment solutions prevent airflow mixing and deliver

Feb 01, 2026

Explore hot and cold aisle containment for your data center

Hot and cold aisle containment can help you maintain the best air flow, temperature and humidity in the data center to

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Aisle Containment | Bespoke Aisle Containment Systems

By segregating cold and hot aisles, aisle containment solutions greatly improve the management of both conditioned air delivery and

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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

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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

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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

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Tate Containment Systems for Hot and Cold Aisle Efficiency

Explore Tate's modular containment solutions for data centers, including hot and cold aisle systems, hard roofs, doors, and custom

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ATEX and explosive atmospheres

Explosive atmospheres in the workplace can be caused by flammable gases, mists or vapours or by combustible dusts. Explosions

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Aisle Containment Solutions | Maysteel Industries

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

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

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

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Hot / Cold Aisle Containment

Hot / Cold Aisle Containment AisleLok Upsite AisleLok containment solutions and portfolio of aisle airflow management products are

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Aisle Containment Systems From EDP Europe | Data

With five global manufacturing and processing locations, and our own installation teams, EDP ensures a

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Cold Aisle Containment in Data Centers | Subzero

Cold aisle containment systems use doors at aisle ends, ceiling panels or lids above racks, and structural

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Data Center Aisle Containment Solutions | HAC & CAC | Enconnex

Enconnex offers customizable hot & cold aisle containment solutions. Save energy, reduce hotspots, & improve airflow with data

Jan 08, 2026

Industrial Explosion Protection

The #1 dust explosion protection method - BS& B explosion vents have proven their worth over the years for explosion pressure

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Aisle Containment | Vertiv Hot/Cold Aisle Containment Solutions

Product Vertiv™ Aisle Containment Freestanding, Rack-independent system with the flexibility to maximize efficiency and capacity

Feb 16, 2026

A DEEP DIVE INTO THE WORLD OF HOT & COLD AISLE

AISLE CONTAINMENT Aisle containment is a crucial strategy in data center management. It involves the use of physical barriers or

Mar 08, 2026

Aisle Containment Systems | Modular Aisle

At row level, installing an Aisle Containment System (ACS) creates a physical barrier that separates hot

Contact Us

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