Manufacturers of shock-resistant cold aisle wall-mounted server racks



Overview

We engineer shock-resistant, fireproof, and sound-dampened enclosures with advanced cooling and theft protection—designed and manufactured in Germany to fit your exact specifications.

Key Takeaways

AMCO Enclosures, Rittal, Tate, Cool Shield, and Eaton are leading manufacturers offering shock-resistant, cold aisle-compatible server racks and containment solutions. Key Manufacturers and SolutionsAMCO Enclosures specializes in vibration- and shock-resistant server racks suitable for seismic zones and high-density data centers. Their racks support static loads up to 5,400 lbs and dynamic loads up to 3,300 lbs, making them ideal for mission-critical electronics.

AMC

O also provides modular containment systems compatible with cold aisle configurations, allowing customization for wall-mounted or floor-mounted setups. Rittal offers modular aisle containment solutions that integrate with existing racks, cabling, and HVAC systems. Their Essential Micro Edge Data Center series combines containment with IT infrastructure support, improving energy efficiency and cooling performance.

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Rittal partners with Subzero Engineering to provide highly functional containment solutions suitable for edge and enterprise data centers. Tate Containment Systems provides modular hot and cold aisle containment solutions, including hard roofs, doors, and custom partitions. Their systems are designed to enhance cooling efficiency and reduce energy loss, and they can be adapted for wall-mounted or freestanding racks.

Cool Shield™ (under Worthington Armstrong Venture) delivers versatile, turnkey aisle containment systems for both new and existing data centers. Their solutions separate cold supply airflow from hot exhaust air, ensuring consistent intake temperatures for servers. Cool Shield products are modular and can be scaled from a single row to entire facilities.

Eaton (via Tripp Lite) offers hot/cold aisle containment kits that are compatible with standard 42U, 45U, and 48U racks. Their modular kits include roof panels, sliding doors, and magnetic filler panels, allowing flexible installation without specialized contractors. These systems improve cooling efficiency and can be adapted for wall-mounted configurations.

Considerations for Selection

Shock and vibration resistance: Essential for seismic zones or industrial environments; AMCO Enclosures is particularly strong in this area. Modularity and scalability: Rittal, Tate, and Cool Shield provide modular designs that can expand with your data center needs. Energy efficiency: Cold aisle containment improves cooling performance and reduces energy costs; all listed manufacturers focus on airflow management.

Compatibility: Ensure the racks and containment systems are compatible with your existing server dimensions and wall-mount requirements. These manufacturers provide a range of shock-resistant, cold aisle-compatible, wall-mounted server racks suitable for enterprise, edge, and industrial data center environments.

Article Content

Server Cabinets for IT Infrastructure | Lehmann IT

We engineer shock-resistant, fireproof, and sound-dampened enclosures with advanced cooling and theft protection—designed and manufactured in Germany to fit your exact specifications.

Data center racks and aisle containment | Enoc System

Our flexible server racks and aisle containment solutions for hot and cold corridors are both cost and energy efficient. We help you to create a complete, future-proof and sustainable solution.

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Vertiv™ Rack Wall Mount – Wall Mounted IT and Server Rack

The Vertiv™ Rack Wall Mount is an enclosure rack built with reliable engineering and is designed to be mounted directly on walls. This helps save valuable floor space while keeping equipment neatly

Data Center Efficiency | Cold Aisle Containment

Cold aisle containment is a strategic approach to airflow management within a data center. The foremost requirement of this system is to ensure cool air, provided

15U Wall Mount Server Rack Cabinet, 19” Locking

Product description Wall-Mount Enclosed 19” Network Cabinets Compact wall-mounted rack cabinets designed for 19-inch network, AV and IT equipment in

Dataracks Server Cabinets | Datacentre Containment Solutions

Dataracks are UK manufacturers of modular security cages, aisle containment, micro data centres and server racks and wall mounted cabinets for Server Room Environments.

Aisle Containment for Server Rooms and Data Centers

Shop aisle containment solutions at Server Racks Online. Explore hot and cold aisle containment systems, including doors, panels, and ceilings. Improve data center airflow, cooling efficiency, and

Custom Server Racks | Heavy-Duty IT Storage Solution

AMS manufactures custom server racks for IT & industrial applications. Get secure, durable designs for heavy-duty steel racks, wall-mount enclosures, & more

dataracks

Products Modular Security Cages Aisle Containment Racks & Cabinets Cabinet Accessories Wallboxes Retrofit Solutions

SERVER RACK & AISLE CONTAINMENT

ArcTiv Server Racks offer greater capacity, load rating and cable & airflow accessories to manage your critical IT systems. The Server Racks are compatible with ArcTiv Aisle Containment and PDU''s for

Wall Mount Server Racks & Network Cabinets

Wall Mount Server Racks The wall-mount network racks feature a robust metal frame with locking doors and reinforced side panels for secure hardware storage.

Shock Mount Server Rack

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Shock Mount Sever Rack Model SMC0601 6U Server Cabinet 600mm/ 23.6" Deep Shock Mount Sever Rack 700 x 500 x 600mm / 27.6"x 19.6 x 23.6" (W x H x D) Introduction SMC series Shock Mount

Products

Products Product feature spotlight Explore the key components of this enclosure by selecting each hotspot to learn how every feature is engineered for performance, durability, and reliability.

ArcTiv Racks and Aisle Containment

ArcTiv Racks & Aisle Containment include easy-to-manage, customizable solutions for data centers, colocations and server rooms. The systems are fully compatible and help to reduce your cooling

Techrack Server Racks. All Sizes Wall-Mounted And Wire Racks

These wall mount racks and sub-d boxes utilize the extra wall space found in corporate data centers. Choose from our double swing sub-D boxes, wall mounted swing racks, sub-distribution wall boxes,

Altimir – Data Center Solutions

Altimir Data Center Solutions designs, fabricates, and installs high quality, custom engineered Hot Aisle and Cold Aisle containment systems for data centers worldwide. Our high-quality, high-performance

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 efficiency while significantly reducing power consumption.

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,

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EU project coordination: Parque das Nações, Lisbon, Portugal

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

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