

New Low-Pressure Complete Equipment Cold Aisle Manufacturers

Article Overview

Leading manufacturers of cold aisle containment systems include Altimir, Subzero Engineering, Accelelevation, Vertiv, and Legrand, offering modular, energy-efficient, and fully integrated solutions for data centers.

Key Manufacturers and Offerings

Altimir specializes in custom-engineered hot and cold aisle containment systems that enhance airflow efficiency and reduce energy costs. Their solutions are scalable, adaptable, and designed for both raised floor and hard floor data centers, providing complete turn-key services from design to installation and maintenance . Subzero Engineering provides cold aisle containment systems that isolate cooled supply air directly to IT equipment intakes. Their solutions include doors, ceiling panels, and structural frames to create enclosed zones, improving energy efficiency and reducing hotspots in compliance with ASHRAE TC 9.9 guidelines . Accelelevation manufactures modular containment panels, including freestanding and ceiling-hung options. Their systems feature low-profile, durable designs with pneumatic soft-close doors and sliding access panels, allowing easy tool-less access while maintaining containment integrity under low-pressure conditions . Vertiv offers freestanding, rack-independent aisle containment systems suitable for both hot and cold aisles. Their solutions are adaptable to existing racks, compatible with raised floor or slab data centers, and designed for rapid deployment and scalability. Vertiv also provides integration with fire suppression systems and flexible cabinet heights . Legrand delivers modular cold aisle containment solutions, such as the Contain-IT FLEX system, which can be pre-assembled or configured on-site. Their systems ensure uniform airflow, reduce energy consumption, and enhance equipment reliability. Legrand also offers seismic-rated solutions and fully engineered cabinets for turnkey deployment .

Features to Consider

- o Energy Efficiency: All manufacturers focus on reducing energy consumption by directing cold air precisely to equipment intakes.
- o Modularity and Scalability: Systems can be expanded or reconfigured as data center needs evolve.
- o Low-Pressure Design: Ensures minimal airflow resistance while maintaining containment integrity.
- o Ease of Access: Sliding or hinged doors and access panels allow maintenance without compromising airflow.
- o Integration: Compatibility with existing racks, fire suppression, and power distribution systems. These manufacturers provide comprehensive solutions for modern data centers seeking low-pressure, complete cold aisle containment systems that optimize cooling efficiency, reduce operational costs, and support high-density IT equipment deployment.



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Provide American/British pronunciation, kinds of dictionaries, plenty of Thesaurus, preferred dictionary setting option, advanced

Whether ceiling hung or integrated with aisle structure, our containment solutions are manufactured on our dedicated lines for quality,

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

Altimir Data Center Solutions designs, fabricates, and installs high quality, custom engineered Hot Aisle and Cold Aisle containment

Choose the right cold food storage equipment for your warehouse. Get in touch with our experts and discover Toppy's multiple

Find out how to improve your data center infrastructure efficiency, using the cold aisle containment or hot

The natural airflow properties of cold air requires doors to prevent it from flowing out from the aisle ends

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

Cold aisle containment creates an enclosed corridor in front of server cabinets, ensuring that the coldest air goes directly into

Last week we continued our article series on the challenges of keeping IT equipment cool in high density

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

Both hot-aisle and cold-aisle containment provide significant energy savings over traditional uncontained

Vertically integrated manufacturer of hot aisle containment, cold aisle containment, white space structure and conveyance solutions.

Tate's Cold Aisle Containment (CAC) system efficiently captures cold air from the CRAH or CRAC unit via

Freestanding, Rack-independent system with the flexibility to maximize efficiency and capacity from the



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Aisle containment is a cooling system that completely separates the cold supply airflow from the hot

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