Outdoor Installation Solution for Cold Aisles in Vietnam

Overview

Cold Aisle Containment Systems Market in Vietnam | ReportThis report covers the global market for Cold Aisle Containment (CAC) Systems, which are engineere.

Key Takeaways

Modular, scalable cold aisle containment systems with durable materials and retrofittable designs are the most effective solution for outdoor or semi-outdoor data center installations in Vietnam.

Key Considerations for Outdoor CAC Installations

Climate Adaptation: Vietnam's tropical climate, with high humidity and seasonal rainfall, requires containment systems made from weather-resistant materials such as aluminum frames with coated or tempered panels to prevent corrosion and maintain structural integrity ( ). Modular and Scalable Design: Outdoor installations benefit from modular, rack-integrated, or free-standing containment systems that can be expanded as data center capacity grows. Modular systems allow for easier maintenance, upgrades, and adaptation to changing airflow requirements ( ).

Energy Efficiency: Cold aisle containment systems separate cold supply air from hot exhaust air, improving cooling efficiency and reducing energy consumption by up to 50% compared to traditional cooling methods ( ). Outdoor systems should integrate with CRAC or in-row cooling units to maintain consistent inlet temperatures and prevent hot spots. Retrofit Capability: For existing outdoor or semi-outdoor server rooms, retrofit-friendly containment panels allow operators to enhance cooling efficiency without major structural changes.

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Lightweight aluminum panels with clear or frosted inserts are ideal for easy installation and airflow management ( ). Durability and Maintenance: Outdoor CAC systems should be resistant to UV exposure, rain, and wind, and designed for easy cleaning and maintenance. Panels should be removable or adjustable to allow access to servers while maintaining containment integrity ( ).

Recommended Solutions in Vietnam

Litech Cold Aisle Containment Systems: Offers modular, rack-integrated or free-standing solutions suitable for diverse environments, emphasizing energy savings and sustainability ( ). PT. Gunung Sawo Cold & Hot Aisle Containment: Provides scalable, retrofittable aisle frame systems that maximize cooling efficiency and are adaptable for medium- to large-scale data centers ( ).

Custom Aluminum Panel Systems: Lightweight, corrosion-resistant panels with modular frames can be configured for outdoor aisles, ensuring airflow separation and consistent server inlet temperatures ( ).

Implementation Tips

Assess airflow patterns to ensure cold air is effectively contained and hot air is directed away from equipment. Use weatherproof enclosures or partial roofing to protect containment panels from direct exposure to rain and sunlight. Integrate with existing cooling infrastructure such as CRAC units or in-row cooling to optimize PUE.

Plan for expansion by selecting modular systems that can be scaled as data center demand increases. Regular maintenance is essential to prevent dust, debris, or moisture from compromising airflow efficiency. By combining modular, durable, and energy-efficient containment systems with careful planning for Vietnam's climate, outdoor cold aisle installations can achieve high operational efficiency, reduced energy costs, and long-term scalability ( ).

Article Content

Cold Aisle Containment Systems Market in Vietnam | Report

This report covers the global market for Cold Aisle Containment (CAC) Systems, which are engineered solutions designed to isolate and manage airflow in data centers by physically

AisleLok® Modular Containment

This is achieved by our completely tool-less design, resulting in an easy-to-install solution that is affordable enough to be scaled across multiple rows and can be applied to either hot or cold aisles,

Cooling Solutions

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Integrated cooling solutions, including headers and in-rack manifolds, custom hose kits, and advanced chip-level cold plates, designed to streamline installation, enhance thermal performance, and ensure

FOCUSED COOLING USING COLD AISLE CONTAINMENT

Cold aisle containment can be used with or without conventional raised floor cooling. It is easily retrofitted into existing raised floor data centers and works in tandem with the raised floor as well as

vietnam cooling system installation

HUYNH KIM - One of the leading company in installing ntilation, Cooling System. For many years, HUYNH KIM has completed many big projects and highly appreciated by customers such as:

Aisle Containment Solutions | Maysteel Industries

This offers a much more efficient solution than cooling an entire room of high-density racks. Our aisle top panels and end door kits are easily customizable to meet your specific requirements for airflow and

Lepin Network | Cold Aisle Containment system

The aisle containment system is a modular rowbased thermal containment solution, which separates cold and hot data center air streams to and from equipment. It manages airflow at the source,

ventilation, cooling system

VINECC., JSC commits to provide perfect cooling system solution for industrial factory, restaurant, bars, etc. We implemented cooling system for SUNJIN AT VINA Co., Ltd, YP Plasteel Vina, etc.

Optimized cooling | Solutions | Legrand Vietnam

Beyond a simple separation of flows via the creation of dedicated aisles, cold aisle containment allows for the containment of aisles for optimized cooling. Hot and cold air are separated from the definition

Aisle Containment | Vertiv Hot/Cold Aisle Containment

Vertiv™ Aisle Containment Freestanding, Rack-independent system with the flexibility to maximize efficiency and capacity from the core to the edge for raised

ProLine ProLine Aisle Con

ProLine Express Aisle Containment offers the same core airflow management benefits of traditional containment solutions, but with the major advantage of saving time and money upfront. The key

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Hot and Cold Aisle Containment Solution | Legrand

Aisle Containment Solutions Why is Containment Important? Effective aisle containment is critical to maintaining peak data center cooling efficiency. By

FOCUSED COOLING USING COLD AISLE CONTAINMENT

While either hot aisle or cold aisle containment systems can be installed and are both capable of increasing efficiency and cooling today''s high heat data centers, meaningful differences exist in how

Data Center Hot/Cold Aisle Containment Systems | Eaton

An aisle containment system is a simple way to improve cooling efficiency in hot aisle/cold aisle rack configurations. Essentially creating a room within the aisle,

Data Center Hot and Cold Aisle: A Quick Guide

A data center hot and cold aisle is a strategic layout for organizing server racks to manage airflow and enhance cooling

Cold & Hot Aisle Containment For Data Center Efficiency

Cold aisle and hot aisle containment systems have emerged as essential strategies in modern data center airflow management. While these

The Advantages And Disadvantages Of Hot-Aisle, Cold

Each of the three containment solutions, if applied correctly, can be equally effective in separating the exhausted heat from the cool air and

Hot Aisle Containment: How It Works and What It Costs

How hot aisle containment cuts cooling bills, how it compares to cold aisle, and what a retrofit costs. A clear guide for anyone planning a data center

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