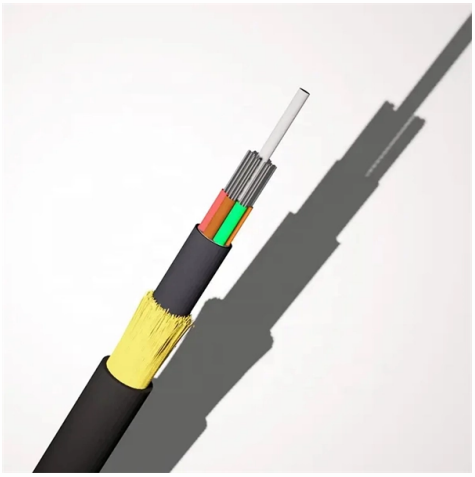
ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Certified Cabinet Cold Aisle Waterproof Type



Overview

Modular sliding or swinging door versions available with optional “soft” self-closing mechanisms and hold-open provisions.

Key Takeaways

Certified cold aisle containment cabinets are designed with robust aluminum frames and polycarbonate panels, offering modular, customizable, and potentially waterproof solutions for efficient data center cooling.Overview of Cold Aisle Containment Cabinets

Cold Aisle Containment (CAC) cabinets are engineered to enclose the cold supply air within a data center aisle, preventing it from mixing with hot exhaust air. This separation improves cooling efficiency, reduces energy costs, and ensures consistent server performance . CAC systems can be customized to fit any data hall layout, including varying aisle lengths, widths, and cabinet heights .

Construction and Materials
• Frames: Typically made from aluminum, providing strength while remaining lightweight .

• Panels: Polycarbonate or Lexan panels are used for visibility, durability, and fire resistance .

• Doors: Options include single or double sliding doors, hinged doors, and gasketed seals to optimize containment .

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• Roof Panels: Aluminum or polycarbonate roof panels can be added to fully enclose the aisle . These materials are resistant to moisture and environmental exposure, which can contribute to waterproofing, though specific waterproof certifications should be verified with the manufacturer.

Modularity and Flexibility

CAC cabinets are designed to accommodate non-standard rack sizes and future growth. Features include:

• Adjustable heights and widths to fit existing and new racks .

• Dummy panels to fill unused spaces and maintain airflow separation .

• Seismic stands for stability in raised floor environments .

• Modular installation allows retrofitting without major disruption .

Certifications and Safety

While most CAC systems are engineered to meet fire safety and structural standards, certifications may vary by manufacturer. Common certifications include:

• Fire safety compliance for polycarbonate panels and gaskets .

• Seismic and structural certifications for raised floor installations .

• Integration with fire suppression and safety systems . For waterproof or environmental protection, it is recommended to confirm IP ratings or manufacturer-specific waterproof certifications.

Benefits

• Energy efficiency: Reduces mixing of hot and cold air, improving CRAC unit performance .

• Custom fit: Tailored to aisle dimensions and rack configurations .

• Modular and scalable: Supports future expansion and non-standard racks .

• Enhanced safety: Compatible with fire suppression systems and seismic requirements . Certified cold aisle containment cabinets provide a robust, flexible, and energy-efficient solution for modern data centers, with materials and design features that can support waterproofing and environmental protection when specified.

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Article Content

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A unique cabinet solution for applications that require engineering services. Our engineering team will work with you to create a

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Modular sliding or swinging door versions available with optional “soft” self-closing mechanisms and hold-open provisions.

Hot and Cold Aisle Containment Solution | Legrand

Explore sliding and swinging options for cabinet-to-cabinet and cabinet-to-wall applications. Our easy-to

Net-Contain Sliding Door Low Profile Cold Aisle Containment

Net-ContainTM Sliding Door Low Profile Cold Aisle Containment System for N-Type and S-Type Cabinets

Contained cold aisle | CONTEG

CONTEG''s cold aisle containment solution (CCA) is a sealed modular expandable system that physically separates and isolates

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AIRSEAL is 100% focused on designing, manufacturing, and installing the highest quality, best value containment systems for Data

Aisle Containment | Vertiv Hot/Cold Aisle Containment

It supports both hot and cold aisle containment on raised floors or slab data centers, preventing air mixing

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Designed to meet the unique needs and preferences of each installation, CAC can span a continuous row

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We provide the best solution to eliminate hot and cold air from mixing between aisles regardless of rack configuration and other

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Why choose certified cabinetry?

Third, we swing test the cabinetry. How do you avoid the shoddy look of loose or unaligned cabinet doors

Hot/Cold Aisle Containment | Data Center Containment

An aisle containment system is a simple way to improve cooling efficiency in hot aisle/cold aisle rack

Net-Contain Sliding Door Low Profile Cold Aisle Containment

The sliding door low profile aisle containment system shall create a structure including end of row doors and ceiling panels that

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Cabinet Supporting Cold Aisle Containment (CAC) Solution

Cabinet Supported Cold Aisle Containment (CAC) Solution The Cabinet Supported Cold Aisle Containment (CAC) Solution by

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Contained cold aisle The aisle containment solution is often deployed in high thermal demand

Hot & Cold Aisle Containment Systems For Data

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

A161.1 Quality Certification

Establishes the A161.1 standard, the primary benchmark for cabinet quality, to ensure consumers and

Cold Aisle Containment: The Best Option?

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Cold Aisle Containment: The Best Option? You probably know that data and control centers have to be temperature

KabinPLUS Aisle Containment Solutions

Aisle containment is the fundamental solution that increases energy efficiency by separating the hot and cold air in the white space .

Net-Contain and Net-Direct Thermal Management Solution

Net ContainTM Passive Hot Aisle Containment The Net-ContainTM Passive Hot Aisle Containment (HAC) System provides a

Aisle Containment Systems for Hot & Cold Aisle Solutions

Aisle containment is a cooling system that completely separates the cold supply airflow from the hot equipment exhaust air. Aisle

Aisle containment system buying guide

Discover the key factors to consider when choosing a hot aisle/cold aisle containment system. This buying guide will help you

Aisle Containment Doors

Explore Cool Shield''s Aisle Containment Doors, designed to enhance airflow management and efficiency in

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

CONTAINMENT SYSTEM

Cold Aisle drop away ceiling panels (clear or opaque) Class A rated, CA State Fire Marshal, UL & FM Global listed and approved Hot

Cold-Aisle Containment Design: Best Practices for New Data Center ...

Core Design Principles for Cold-Aisle Containment A compliant and efficient CAC system integrates five interdependent elements:

Why KCMA Certified Kitchen Cabinets

Products bearing the ANSI/KCMA Certified seal meet rigorous performance and construction requirements, including testing for

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Aisle Containment

Our aisle containment systems are vendor agnostic, featuring innovative, transparent panels that are lightweight and easily attached

Coolgenic Cold Aisle Roofs – Cross-Guard

Coolgenic collapsible cold aisle roof panels can be installed on cabinets of any size/height as the channels

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

Cabinets Certified to Last

Stain Test A cabinet door edge is subjected to exposure to a standardized detergent formula for 4 to 24 hours,

Contained cold aisle | CONTEG

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Contained cold aisle The aisle containment solution is often deployed in high thermal demand environments where cold air is

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