

Cold aisle server room skylight



Overview

Designed by cold aisle function and structure, cold aisle skylight is a high seal, multifunctional skylight for data center cold aisle containment. While advanced cooling systems like chilled water plants and CRAH units play a major role, one of the most effective strategies is much simpler: controlling how air moves through the data hall. Beyond implementing basic measures such as sealing moisture out of the data center and improving air flow, aisle containment to prevent the mixing of hot and cold air stands out as a method that can dramatically reduce energy costs, minimize hot spots and improve the carbon footprint of data. The hot aisle /cold aisle data center layout was originated by IBM in 1992 and it is one of the oldest ways to save energy in the data center. 1 Hot aisle/cold aisle layout involves lining up server racks in alternating rows with cold air intakes – the fronts of servers – facing each other (the. The system simply aligns server fronts (air intakes) toward a shared cold aisle, and backs (exhausts) toward a shared hot aisle. Cold Aisle: Rows of racks face each other, forming a corridor where cool air is directed. Hot Aisle: Exhaust air from servers is pushed into a separate aisle, which may. Hot and cold aisle containment is a proven strategy to optimize airflow, reduce energy costs, and improve cooling efficiency.



Article Content

Jan 23, 2026

Hot Aisle / Cold Aisle Cooling Explained

The hot aisle / cold aisle configuration conserves energy and lowers cooling costs by managing air flow. This is common practice in every data centre and may seem obvious to most

Mar 23, 2026

Cold Aisle Skylight

Designed by cold aisle function and structure, cold aisle skylight is a high seal, multifunctional skylight for data center cold aisle containment. It could optimize

Jan 09, 2026

The pros and cons of hot and cold aisle containment

With data centres and computer server rooms becoming larger and more numerous companies are often faced with a decision: what is most suitable for their

Aug 13, 2025

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

Jun 10, 2026

Data Centre Cooling: Hot Aisle and Cold Aisle Design

Ultimately, achieving optimum cooling in a hot/cold aisle data centre arrangement is a complex task that requires meticulous planning and attention to detail. Each

Sep 27, 2025

The Advantages And Disadvantages Of Hot-Aisle, Cold

But there are some disadvantages to cold-aisle containment. Allowing the discharge air from the hot aisle to fill the room results in temperatures

Jan 26, 2026

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 save energy in the data center.

Mar 22, 2026

How to Keep Your Server Room Cool

There are many ways to keep your server room cool, here are some suggestions. Contact The Sever Group today for more information.

Oct 24, 2025

Cold Aisle | BladeRoom Data Centres

A cold aisle is a cooling strategy where the fronts of server racks face each other, creating a dedicated pathway for cool air from the cooling systems to flow directly into the equipment. This configuration

Jul 22, 2025

A Guide to Hot and Cold Aisle Containment for Optimizing Server Room ...

Training and Awareness The hot and cold aisle strategy is a proven method for improving cooling efficiency and reducing energy consumption in data centers. By carefully planning the layout of

Sep 22, 2025

Containment Aisle FAQs | Server Room Environments

Cold aisle containment systems are designed to eliminate hot-spots within server racks, server rooms and datacentres. These hot-spots typically occur at the top of server racks and are affected by hot

May 06, 2026

Hot/Cold Aisle Containment | Data Center Containment

In order to determine which data center containment strategy is right for your data center or server room, you must look at the layout of the room, budget, and long

Aug 11, 2025

Server Room Containment Systems | Hot & Cold Dial Containment in

Hot and cold aisle containment is a proven strategy to optimize airflow, reduce energy costs, and improve cooling efficiency. At Profile IT Solutions, we specialize in designing and implementing

Jul 26, 2025

Data Center Hot Aisle/Cold Aisle Layout Design

Are you interested in creating the most energy efficient design for your Data Center Server Room? Consider the Hot Aisle/Cold Aisle layout design.

Apr 28, 2026

Modular Data Center with Aisle Containment & UPS

Intelligent Modular Data Center featuring Hot/Cold Aisle Containment, Modular UPS, and 20-50KW Cooling Capacity for efficient server room management.

Aug 14, 2025

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 server racks and other computing equipment. Find out more here.

May 16, 2026

Aisle Containment for Server Rooms and Data Centers

Aisle Containment Enhance cooling efficiency and reduce energy costs with aisle containment solutions from Server Racks Online. Designed for data centers and IT environments, our hot aisle and cold

Jan 02, 2026

Data Centre Cooling: Hot Aisle and Cold Aisle Design

Data Centre Cooling: Hot Aisle and Cold Aisle Design Data centres have become an integral part of today's technological landscape, used to store, process and

Feb 28, 2026

Aisle Containment May Hinder Server Room Fire

Server rooms need strong cooling and fire protection systems. QRFS examines aisle containment systems and how they can impede fire protection.

Mar 13, 2026

Hot Aisle vs Cold Aisle in Data Centers: Technical

Data centers are ovens if left unmanaged. Hundreds, sometimes thousands of servers pump out heat — and your HVAC doesn't care about waste

Mar 26, 2026

Hot Aisle vs Cold Aisle in Data Centers: Technical

What Are Hot Aisle / Cold Aisle Configurations? Data centers are ovens if left unmanaged. Hundreds, sometimes thousands of servers pump out

Nov 05, 2025

Cold Aisle Containment Systems | Server Room Environments

Cold Aisle Containment Cold air falls and installing cold aisle containment provides a way to seal cold aisles in data centres and server rooms to prevent hot exhaust air from IT server cabinets mixing with

May 01, 2026

What is Hot Aisle/Cold Aisle Containment?

The equipment within a server cabinet can include servers, switches, routers and rack mount UPS systems. These devices tend to draw air "front-to-rear" as a result of their design and fan operation. A

Apr 25, 2026

Effective Hot and Cold Aisle Containment for Modern

The layout of a containment system in your server room will depend on the way your system functions and there're a few ways the installation of a cold or

Jun 07, 2026

What are hot and cold aisles in the data center?

Hot and cold aisles in the data center are part of an energy-efficient

May 24, 2026

Hot Aisle vs Cold Aisle Containment Explained (Data Center Cooling ...

Hot aisle and cold aisle containment are foundational concepts in data center design. When implemented correctly, they improve efficiency, reduce energy consumption, extend

Dec 02, 2025

What is hot/cold aisle in data centre

Hot/cold aisle is a layout design for server racks in a data center. The goal of it is to increase the effectiveness of cooling system by managing air flow

May 06, 2026

FAMILY BROCHURE Aisle Containment Solutions

The Elevate cold aisle automatic active opening roof skylight is designed to allow a modular approach to the construction of an aisle containment solution with a central closed roof.

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://moletenare-ew.co.za>

Email: info@moletenare-ew.co.za

Phone: +86 138 1658 3346

Address: Ningbo, China

This document is for informational purposes only. Specifications subject to change without notice.

