Taipei Cold Aisle Data Center



Overview

Located in the Taoyuan district of Taiwan, the 16MW facility can accommodate both cloud and high-density deployments, enabled with liquid cooling technology to support artificial intelligence (AI) and data-intensive applications. New Sunpln Technology Industrial Co. has launched its upgraded cold aisle containment micro modular data center. When implemented correctly, they improve efficiency, reduce energy consumption, extend equipment life, and enhance overall reliability. In design, the overhead downward flow system is implemented with a heat exchanger arranged right above the data center on the air side and an evaporative water chiller. Cold Aisle Containment isolates the cooled supply air from the cooling units within direct proximity of the air intake of critical equipment. An enormous amount of energy is used every day to maintain an acceptable intake temperature to the IT equipment. 23 million in 2020, rising to USD 134. 12% during the forecast period. Strong growth in AI, cloud computing, and high-density workloads drives. DENVER, USA and SINGAPORE (July 10, 2024) – Vantage Data Centers, a leading global provider of hyperscale data center campuses, today announced the grand opening of its first Taipei data center (TPE11).



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Article Content

Numerical analysis of the individual and combined effects of the aisle ...

These findings highlight that the aisle containment strategies should not be applied uniformly across facilities, but rather tailored based on spatial and structural characteristics of the

New Sunpln Cold Aisle Containment Micro Modular Data Center

New Sunpln Technology Industrial Co., Ltd. has launched its upgraded cold aisle containment micro modular data center. This standard prefabricated solution is widely applicable to enterprise computer

Hot Aisle vs Cold Aisle Containment Explained (Data

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

Numerical and experimental investigations on thermal management

This study presents a container data center via the cold aisle containment design combining with a HX on the airside and a EWC on the waterside as an effective solution to enhance

What are hot and cold aisles in the data center?

In its simplest form, hot/cold aisle data center design involves lining up server racks in alternating rows, with cold air intakes facing one way and the hot air exhausts facing the other. The

Numerical and experimental investigations on thermal management

This paper demonstrates a generalized approach as an easily adaptable, cost-effective solution for data centers to be deployed in tropical and subtropical areas.

Cold Aisle Containment in Data Centers | Subzero

Is Cold Aisle Containment Right for Your Data Center? Cold aisle containment works in virtually any data center using traditional air cooling, but some facilities

Taiwan Data Center Cooling Market

Northern Taiwan held the largest share of the Taiwan Data Center Cooling Market in 2025, supported by the concentration of hyperscale and colocation facilities in Taipei and Taoyuan, where infrastructure

Vantage Data Centers Opens First Taipei Facility

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Located in the Taoyuan district of Taiwan, the 16MW facility can accommodate both cloud and high-density deployments, enabled with liquid cooling technology to support artificial intelligence

Cold & Hot Aisle Containment For Data Center Efficiency

Learn how cold and hot aisle containment improves airflow, reduces energy use, and boosts reliability in data centers. Backed by CFD insights from EXPERIQS.

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. 1 Hot aisle/cold aisle layout involves

Hot & Cold Aisle Containment: Implementation Guide 2026

Learn how to implement hot and cold aisle containment in existing data centers — HAC vs CAC comparison, PUE optimization, compliance standards, and cost analysis.

Aisle containment system buying guide

Choosing a hot aisle cold aisle containment system for your data center An aisle containment system is a simple way to improve cooling efficiency in hot aisle/cold aisle rack configurations. Essentially

Data Center Aisle Containment Systems | Profile IT Solutions

Explore 30 hot aisle, cold aisle, structural, door, roof, flexible containment and airflow-control products for data centers. Engineering and installation by Profile IT Solutions.

Hot Aisle vs. Cold Aisle Containment for Data Centers

Involving data centers, one of the biggest concerns faced is airflow management. Temperature and humidity need to be carefully controlled to protect equipment, minimize failures,

Taiwan Data Center Market Size & Share Outlook to 2031

Taiwan Data Center Market Analysis by Mordor Intelligence The Taiwan data center market size in terms of installed base was valued at 280.90 megawatt in 2025 and is estimated to

Cold Aisle Containment | Legrand

By maintaining consistent, predictable temperatures, cold aisle containment minimizes thermal stress and reduces the risk of overheating, improving reliability and extending equipment lifespans. Flexible,

Taipei Data Centers

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

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