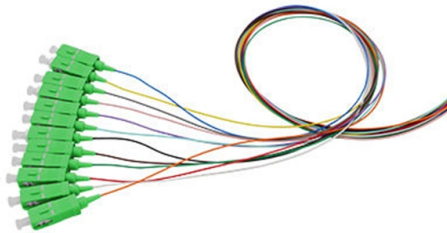


What are cold aisle server racks called



Overview

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Key Takeaways

Server racks positioned in cold aisles are commonly referred to as "cold aisle racks" or "front-facing racks." Definition and Orientation

Cold aisle server racks are arranged so that the fronts of the servers face each other, forming a corridor known as the cold aisle where cool air is delivered directly to the server intakes. The backs of these racks face the adjacent hot aisles, allowing hot exhaust air to be efficiently removed and directed toward cooling systems. This orientation ensures that servers receive consistent inlet temperatures and prevents hot and cold air from mixing, which improves cooling efficiency and reduces energy costs.

Cold Aisle Containment

In some data centers, cold aisle racks are enclosed using cold aisle containment systems, which trap cold air within the aisle to further enhance cooling performance. This setup ensures that the cold air is concentrated at the server intakes, maintaining optimal operating temperatures and extending equipment lifespan.

Key Benefits

- Efficient Cooling: Directs cold air to server intakes for maximum heat dissipation.



- **Energy Savings:** Reduces the workload on air conditioning systems by preventing air mixing .
- **Simplified Maintenance:** Clear separation of hot and cold air makes monitoring and servicing easier . In summary, server racks in cold aisles are typically called cold aisle racks or front-facing racks, and they are a fundamental component of hot aisle/cold aisle data center layouts designed to optimize airflow and cooling efficiency .

Article Content

Data Center Server Rack Guide (2026): Types, Design, Airflow, Power

Learn everything about data center server racks—definitions, rack types, airflow design, power integration, cable

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