

Cases of Temperature-Controlled Server Rack Construction in Data Centers of the Ten ASEAN Countries

Learn proven best practices for cooling server racks to prevent overheating, protect IT hardware, and keep your data center running efficiently.

To address localized hotspot issues arising from traditional cooling methods in high-power-density data centers and to ensure a stable thermal ...

This paper proposes a decentralized cooling system combined with a traditional computer room air conditioning unit and server-level heat pipe exchangers for thermal environment ...

With proper design and integration, rack cooling systems can effectively control temperature, extend equipment lifespan, and significantly improve energy utilization.

To tackle the challenge of inefficient traditional control methods and energy wastage caused by temperature disparities within the data center's server room cooling system, this...

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Learn how LoRaWAN wireless temperature monitoring enables server rack thermal mapping in data centers to identify hot spots, optimize cooling efficiency, and protect critical IT equipment.

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This guide provides an overview of best practices for energy-efficient data center design which spans the categories of information technology (IT) systems and their environmental conditions, data center ...

To evaluate how their model-based control approach would perform in practice, the researchers built a detailed simulation that closely reflected conditions inside a real rack-based data center.

Therefore, a systematic review is given to provide the reference for the design, operation, control, and energy efficiency improvement of the rack-level cooling system in data centers.

Abstract: The raised-floor architecture is widely adopted in the current data center industry. Due to the structural design and workload imbalance, many server racks suffer from a ...

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