

Enclosed Hot Aisle of Computer Room



Overview

Hot Aisle Containment encloses the aisle with the exhaust side of the computing equipment and the return air grilles or plenum so that hot air only goes to the return air intake of the cooling equipment. The HAC. Traditional open aisle data centres use perimeter PAC (precision air conditioning) or CRAC (computer room air conditioning) units to channel cold air up through a raised floor void via grilles positioned in front of the IT cabinets. Designed for data centers and IT environments, our hot aisle and cold aisle containment systems help isolate airflow, optimize temperature control, and protect critical equipment.

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Computer room's temperatures of full enclosed hot aisle are lower than that of full enclosed cold aisle. So the former has a slight advantage, but requires more aisle partitions and higher cost.



With hot aisle architecture, the supply air is directed onto the front of the racks and the hot discharge air ducted back to the PAC units through the ceiling void; this provides better room temperature control ...



By preventing hot and cool air from mixing, our solutions create a controlled environment that maximizes the performance and lifespan of your IT equipment. Our products are versatile and customizable, ...



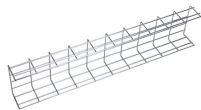
Experience the next level of data center efficiency with Legrand hot aisle containment solution, designed to optimize airflow, reduce energy consumption, and ensure peak performance of your critical ...



Hot aisle containment (HAC) takes advantage of the natural properties of warm air rising. The HAC system directs the upward airflow to an AC return system such as a drop-ceiling void. The HAC can ...



Not all data center computer rooms are suitable for arranging enclosed cold aisles and hot aisles. It mainly depends on the heat dissipation amount of the data center.



Hot Aisle Containment encloses the aisle with the exhaust side of the computing equipment and the return air grilles or plenum so that hot air only goes to the return air intake of the cooling equipment.



Our modular systems provide flexible, secure separation between hot and cold aisles or controlled zones to maintain optimal environmental performance.



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



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 aisle containment ...

Contact Us

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