

Real picture of the hot aisle in the computer room

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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 ...

Hot aisle containment provides a way to efficiently manage and control hot airflow within server rooms, data centres (on-premises and Edge sites) and other IT environments to reduce cooling system ...

What is Aisle Containment in a Server Room? Aisle containment is a thermal management strategy that separates hot and cold air streams in a data center to prevent mixing, improving cooling efficiency.

Illustration of a data center showing hot and cold aisles with in row cooling.

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 ...

This design features a ceiling-mounted hot air extraction system that pulls the hot air directly from the hot aisle, preventing it from mixing with the cold air.

In a typical hot aisle containment system, a false ceiling grid is created to bifurcate the area and form a plenum for the return of hot air to the cooling system.

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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 ...

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