ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Ireland Warranty Server Room Cold Aisle 47U



Overview

Server contained cold aisle / 47U / 42U / data centerA Contained Cold Aisle is made up of two spans of cabinets equipped with front and rear openwork doors.

Key Takeaways

47U server racks with contained cold aisle systems are available in Ireland, offering optimized cooling, energy efficiency, and local support from manufacturers like Fuartech and RWL Advanced Solutions.47U Server Racks

A 47U rack is an industry-standard 19-inch rack that provides additional vertical space compared to the more common 42U racks, allowing for more servers or equipment in a single cabinet. These racks are designed to support high heat and power loads, with features such as perforated front doors for airflow, side-wall compartments for PDUs, cable management channels, and lockable doors for security. Both static and dynamic 47U racks are available, with stabilizers or outriggers to safely move loaded racks .

Cold Aisle Containment



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Cold aisle containment is a method to improve server room cooling efficiency. Racks are arranged in alternating rows with cold air intakes facing the contained aisle. The aisle is enclosed with front and rear doors, slatted floors, and overhead tiles to prevent hot air recirculation. This ensures that 100% of the air from air conditioners is used by the servers, improving energy efficiency and reducing operational costs . Contained cold aisles can include sliding glass doors with locks for secure access and removable tiles for easy server installation.

Local Suppliers in Ireland

• Fuartech Engineering (Ballymount, Dublin) manufactures custom hot/cold aisle containment systems, security caging, PDUs, and server racks. They provide turnkey solutions from design to installation, including 3D drawings and project sign-off, ensuring compliance with client specifications .

• RWL Advanced Solutions offers a range of cabinets and racks, including bespoke cooled cabinets tailored to client requirements. They provide accessories and support for full server room deployment .

Warranty and Support

Both Fuartech and RWL provide warranty and service support for their server racks and containment systems. This typically covers manufacturing defects, structural integrity, and sometimes installation support. For specific warranty terms, it is recommended to contact the supplier directly, as coverage may vary depending on the product and installation scope.

Energy Efficiency Considerations

Implementing a contained cold aisle with 47U racks helps optimize cooling, reduce energy consumption, and maintain consistent inlet temperatures for servers. This setup is particularly effective in larger data centers or modular deployments, ensuring reliable operation and improved carbon footprint management . In summary, Ireland has local manufacturers and suppliers capable of providing 47U server racks with cold aisle containment, backed by warranty and installation support, making it feasible to deploy energy-efficient, secure, and scalable server room solutions.

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Article Content

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Server contained hot aisle / 47U / 42U / data center

The warmed air coming from the servers is blown into the contained hot aisle. The aisle cooling modules “ACM” extract the air from

47U Wide Server Rack, Euro-Series

47U rack enclosure with 800 mm width houses, organizes and secures rack equipment in high-density server and IT networking

About Us

We manufacture custom hot/cold aisle containment systems, steel containment structures for the Hyperscale client, security caging

Hot & Cold Aisle Containment Systems For Data Centers by Cool Shield

Cool Shield™ products provide customers with versatile, turnkey aisle containment systems for new or existing critical spaces. Our

Great Lakes Server Cabinets (18U to 47U) | Wood

High-quality Great Lakes server cabinets with up to 800kg load capacity. Choose fully assembled or flat

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With internal depths from 600-1200mm, these 47U racks are designed to house standard 19inch rack mountable devices using slide

Hot & Cold Aisle Containment – Jan Janssens

The aisle is enclosed by walls or other barriers that prevent the hot air from mixing with the cool air in the rest of the room. The hot air

Data Center Server Rooms

PortaFab''s containment partition walls can be arranged in a variety of configurations in order to maximize energy efficiency when

47U Wide Server Rack, Euro-Series | Eaton

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This 47U server cabinet comes fully assembled for quick and easy deployment with pre-installed casters that let you

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Basic Aisle Layout — Why Containment Matters The fundamental data centre airflow model positions server racks in alternating cold

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Features Standard-Depth 47U Server Cabinet Accommodates 19 in. Rack EquipmentThis SmartRack® 47U rack enclosure is

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Hot aisle containment is used to capture and direct hot exhaust air back to the cooling units. This popular option is ideal for data

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Server Room Environments provides a complete range of cable management and accessory items including: shelves, mounting rails,

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The aisle containment system improves cooling efficiency in hot aisle/cold aisle rack configurations by essentially creating a room

Aisle containment system buying guide

Choosing a hot aisle cold aisle containment system for your data center An aisle containment system is a

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

Data Centre Aisle Containment Systems

Data Centre Aisle Containment Systems A data centre aisle containment system separates the supply of the cold air and hot exhaust

Aisle Containment for Server Rooms and Data Centers

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Browse our range of Excel SR 600 47U Server Cabinets for secure and efficient server storage. Perfect for data centres, offices, and

Value 47U Server Racks 600mm Wide 900mm Deep

The VS47-6-9 Value 47U Server Racks 600 Wide 900 Deep is a 47U high, 600mm wide and 900mm deep free standing server rack

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Wide Server Rack Accommodates 47U of Rack Equipment and Side Cable ManagementThis SmartRack® 47U server rack is

Hot & Cold Aisle Containment Panels

Hot and Cold Aisle Containment Panels Plastic panels play a vital role in containing and protecting server systems (hot or cold) in

Aisle Containment | Vertiv Hot/Cold Aisle Containment Solutions

The Vertiv™ Aisle Containment System is a free-standing, rack-independent solution designed to simplify aisle containment in data

Network Server Steel 19 Inch 47U Server Rack Cabinet

The rack or cabinet that houses your servers is the cornerstone of a state-of-the-art data center and lab. The right cabinet or rack can

Modular Cold Aisle Containment w/ 45U Server Enclosures and

AZE''s Aisle containment systems designed to maximize cooling predictability, capacity, and efficiency at the rack, row or room

Premium 47U Server Racks 800mm Wide 1200mm Deep

The SR47-8-12 Premium 47U Server Racks 800 Wide 1200 Deep is a 47U high, 600mm wide and 1000mm deep free standing

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

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