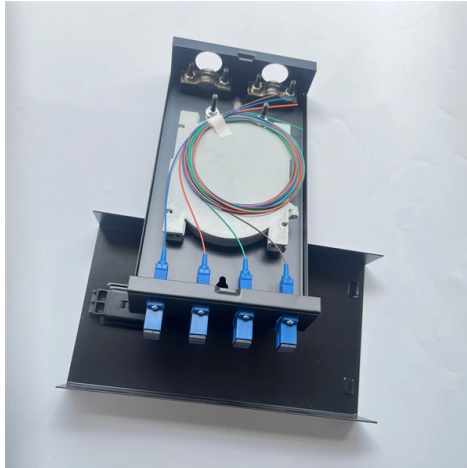


Bosnia and Herzegovina Server Rack System Low Temperature Resistance Installation Solution



Overview

With the CyberRow, STULZ offers an efficient air conditioning solution that is positioned directly between the racks in the server room.

Key Takeaways

Deploy ruggedized server racks with precise airflow management, in-row or in-rack cooling, and hot/cold aisle containment to ensure reliable operation in low-temperature environments.

Rugged Rack Selection

For low-temperature environments, choose rugged rack systems designed to withstand extreme temperatures, shock, vibration, dust, and humidity. These enclosures often comply with standards like MIL-STD-810 for environmental stress and IP65/IP67 for dust and water protection, ensuring servers remain operational even in harsh climates. Materials such as aluminum provide lightweight strength, while steel offers superior EMI protection.

Advanced coatings like CARC enhance corrosion resistance, which is critical in cold, potentially humid conditions.



Cooling and Temperature Management

Even in low-temperature environments, consistent airflow and thermal management are essential to prevent condensation and localized overheating: Hot/Cold Aisle Containment: Physically separate cold intake air from hot exhaust to maintain stable temperatures and prevent energy waste.

In-

Row or In-Rack Cooling: Install cooling units directly between or within racks to provide localized, precise temperature control, which is especially effective for high-density or AI workloads. Passive Cooling: Use perforated doors, blank panels, and proper rack spacing to optimize natural airflow and reduce reliance on active cooling systems. Liquid Cooling Options: For high-density deployments, consider rear-door heat exchangers or direct-to-chip liquid cooling to efficiently remove heat from critical components.

Installation Best Practices

Rack Placement and Spacing: Maintain adequate clearance at the front and rear of racks to support airflow and prevent cold air short-circuiting. Cable Management: Route cables neatly to avoid obstructing airflow, which can create hotspots even in low-temperature environments. Modular Deployment: Use modular racks and containment systems to allow scalable expansion and easy adaptation to changing workloads.

Environmental Monitoring: Install temperature and humidity sensors to continuously monitor conditions and prevent condensation or freezing risks.

Additional Considerations

Transit and Shock Protection: If racks are mobile or deployed in temporary facilities, use shock-mounted or transit case racks to protect servers from vibration and impact. Compliance and Standards: Ensure racks meet EIA-310 standards for 19-inch equipment compatibility while accommodating custom depths or heights for edge servers. Energy Efficiency: Even in cold climates, optimize cooling efficiency to reduce operational costs by combining passive airflow management with targeted active cooling.

By integrating ruggedized enclosures, precise airflow management, and modular cooling solutions, server racks in Bosnia and Herzegovina can maintain reliable performance in low-temperature environments while supporting high-density and mission-critical workloads.

Article Content

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