

Three-year warranty for cold aisle server room IP65

Article Overview

Cold aisle containment systems typically come with warranties ranging from 3 to 5 years, but IP65-rated enclosures may require specialized products and vendor confirmation.

Warranty Considerations

Most cold aisle containment (CAC) systems, including modular panels, curtains, and end-of-row doors, are backed by limited warranties. For example, Eaton provides a 5-year limited warranty on their hot/cold aisle containment kits, covering defects in materials and workmanship . While a three-year warranty is common in the industry, the exact coverage depends on the manufacturer and the type of containment system, including whether it is modular, curtain-based, or solid-panel construction.

IP65 Compliance

An IP65 rating indicates that the enclosure is dust-tight and protected against water jets, which is higher than standard server room containment systems. Most standard cold aisle containment solutions, such as PVC curtains or modular panels, are not inherently IP65-rated. Achieving IP65 typically requires sealed metal or polycarbonate panels with gaskets and specialized doors to prevent dust and water ingress. If IP65 compliance is required, it is essential to confirm with the vendor that the system meets these standards and that the warranty explicitly covers IP65-rated components.

Cold Aisle Containment Features

Cold aisle containment systems are designed to:

- o Separate cold supply air from hot exhaust air, improving cooling efficiency and reducing energy consumption by 20-35% .
- o Maintain consistent intake temperatures for servers, preventing hot spots and extending equipment life .
- o Include modular ceiling panels, side barriers, and end-of-row doors, which can be customized for existing or new server rooms .
- o Support high-density server environments, with thermal loads up to 10-15 kW per aisle in raised floor setups .

Recommendations

- o Confirm Warranty Terms: Verify with the manufacturer whether a three-year warranty is available for IP65-rated containment systems.
- o Check IP65 Certification: Ensure the system is tested and certified for IP65 compliance, including all panels,



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doors, and seals.

- o Consider Modular Solutions: Modular systems allow retrofitting existing server rooms while maintaining airflow efficiency and thermal management.
- o Vendor Consultation: Engage with vendors like Eaton, Steel Guard, or Cool Shield to specify IP65 requirements and warranty coverage before purchase . By selecting a certified IP65 cold aisle containment system with a verified warranty, data centers can ensure reliable protection against dust and water, maintain optimal cooling efficiency, and safeguard high-value server equipment.

By maintaining consistent, predictable temperatures, cold aisle containment minimizes thermal stress and reduces the risk of

The two (2) units Cold Aisle Air Containments in the Data Center were completely installed and accepted on January 27, 2022 as

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Cold aisle containment is a highly effective strategy for improving the efficiency and performance of data centre cooling systems. This

AZE offers smart modular customizable hot and cold aisle containment solutions with 42U to 52U floor standing server rack

Warranty: This Vertiv(TM) product is warranted to be free of defects in material and workmanship for a period of (3) Year from

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In its simplest form, hot/cold aisle data center design involves lining up server racks in alternating rows, with cold air

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