

## Computer Room Cold Aisle NEMA4X Manufacturer



### Overview

NEMA 4X (IP66) Cabinet Coolers are constructed of stainless steel for food service and other corrosive environments.

### Key Takeaways

Leading manufacturers of Cold Aisle Containment systems compatible with NEMA 4X enclosures include EDP Europe, Vertiv, Maysteel, Armstrong, and Armagard. Key Manufacturers and Solutions



EDP Europe specializes in bespoke hot and cold aisle containment systems for data centers of all sizes. Their solutions are modular, scalable, and can be floor-standing or ceiling-suspended. EDP's Cold Aisle Containment (CAC) systems are designed to isolate cold air supply from hot exhaust, improving cooling efficiency and reducing thermal stress on equipment. They offer global support and turn-key installation services, making them suitable for both retrofit and new builds . Vertiv provides freestanding, rack-independent aisle containment systems adaptable to both hot and cold aisles. Their systems can be deployed before or after rack installation, simplifying installation and supporting a variety of cabinet heights. Vertiv products are backed by a 3-year warranty and are designed to integrate with existing fire suppression systems . Maysteel Industries manufactures DAMAC aisle containment systems and server racks in North America. Their solutions are customizable, cost-effective, and designed for efficient deployment. Maysteel emphasizes modularity, allowing integration with cable routing systems, overhead busways, and both hot and cold aisle configurations . Armstrong offers Cool Shield™ aisle containment solutions, including floor-mounted structures, framed panels, modular partitions, and containment doors. Their systems are designed for long-term performance, scalable data center builds, and efficient separation of hot and cold airflows. Armstrong emphasizes American-made reliability and premium-grade materials . Armagard produces NEMA 4X-rated enclosures suitable for harsh environments. Their enclosures are waterproof, dustproof, and corrosion-resistant, making them ideal for housing PCs, monitors, and small servers in industrial or computer room settings. Armagard enclosures are available in multiple sizes and configurations, including swing-out panels and dual-monitor cabinets .

#### Considerations for Selection

- **NEMA 4X Rating:** Ensures protection against water, dust, and corrosion, critical for industrial or high-humidity environments.
- **Modularity and Scalability:** Allows future expansion and integration with existing racks.
- **Turnkey Installation:** Some manufacturers provide full design, manufacturing, and installation services.
- **Compatibility:** Ensure the containment system integrates with your existing fire suppression, cabling, and cooling infrastructure. These manufacturers provide reliable, high-quality solutions for computer room cold aisle containment with NEMA 4X-rated enclosures, suitable for both new data centers and retrofits.

## Article Content

Cold Aisle Containment | Legrand

By isolating the cold aisle, containment reduces unintended mixing of cold supply air with hot exhaust air, maintaining uniform,

Hot & Cold Aisle Containment Systems For Data

Cool Shield™ products provide customers with versatile, turnkey aisle containment systems for new or

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Cool Shield provides customers with versatile, turnkey aisle containment systems for new or existing

Cold Aisle Computer Room NEMA4X Manufacturers

These manufacturers provide reliable, high-quality solutions for computer room cold aisle containment with NEMA 4X-rated

Products

Hot & Cold Aisle Containment AMCO's Hot and Cold Aisle Containment Systems prevent hot and cold air mixing by creating

NEMA 4X Low Cost Cabinet Cooling for Large and Small Control

NEMA 4X (IP66) Cabinet Coolers are constructed of stainless steel for food service and other corrosive environments. Unlike

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Cold aisle containment encloses the cold aisles to ensure only cold air is supplied to servers. This approach is normally used with in

Air Conditioners for Enclosures | Kooltronic

Kooltronic closed-loop Control Cabinet Air Conditioners cool, dehumidify and recirculate clean air within

NEMA 4X Enclosures | NEMA 4 Rated Electrical Boxes

Discover NEMA 4X enclosures designed for tough environments, offering superior protection with NEMA 4

Inventronics | NEMA 4 / 4x Cabinets & Enclosures

NEMA 4x enclosures further increases the level of equipment or instrumentation protection in locations

NEMA 4X TITAN Computer Enclosure

The stainless steel, NEMA 4X TITAN computer enclosure is expertly designed to prevent electronics from failing in critical

Electrical Enclosures & Server Rack Cabinets | NEMACO™

NEMACO manufacturer of performance class waterproof electrical enclosures & weatherproof server rack cabinets engineered to

NEMA 4 | Climate Controlled Enclosures | Hardcraft

Hardcraft offers the finest Climate-Controlled Enclosures in pad-mount and pole-mount styles. Our comprehensive solutions include

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NEMA-Rated Enclosures Manufacturer We manufacture high-quality NEMA-rated enclosures designed to

NEMA 4 Electrical Enclosures | Bison Profab

NEMA 4 enclosures are often called rain-tight enclosures due to their excellent weather resistance. Exterior applications for NEMA 4

NEMA 4X Enclosures | Type 4X Enclosure

NEMA 4X Enclosures: Ratings, Materials and Selection Guide Quick Answer: A NEMA 4X enclosure protects electrical and

Hot/Cold Aisle Containment | Data Center Containment Systems

An aisle containment system is a simple way to improve cooling efficiency in hot aisle/cold aisle rack configurations. Essentially

NEMA 4 TITAN Computer Enclosure

The NEMA 04 IceStation TITAN computer enclosure will protect electronics from dust, dirt, grease, harsh corrosives, and hose

A Complete Guide to NEMA 4X Ratings for Industrial Enclosures

Discover what NEMA 4X ratings mean for your equipment. Our guide explains testing, materials, and NEMA vs. IP

4x

APX specializes in NEMA 4X Enclosures that provide protection from corrosion, water and foreign objects. Request a quote on a

Ice Qube, Inc.

Manufacturer of enclosure cooling for NEMA type electronic enclosures, ICEqube keeps electronics cool

Aisle Containment | Modular Cleanroom & Data Center Containment ...

Enhance airflow control and energy efficiency in data centers, laboratories, and cleanroom environments with

NEMA 4X Hazardous Location Cabinet Cooler® Systems

EXAIR: Manufacturing compressed air products since 1983

Hot and Cold Aisle Containment Solution | Legrand

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

Aisle Containment Systems for Hot & Cold Aisle Solutions

Aisle containment is a cooling system that completely separates the cold supply airflow from the hot equipment exhaust air. Aisle

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NEMA 4 rated enclosures & cabinets provide spray washdown watertight protection and spray-down waterproof solution. NEMA 4

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Manufacturer of NEMA 1, 3R, 4, 4X, 12 custom enclosures. Products include direct air cooled cabinets, HVAC closed loop cabinets,

Air Conditioners for Enclosures | Kooltronic

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Choose from our selection of NEMA 4X enclosures, including over 6,800 products in a wide range of styles and sizes. Same and

NEMA 4X

The NEMA 4X electrical enclosure is a specific type of enclosure that meets the following standards: Suitable for indoor and outdoor

A Comprehensive Handbook On NEMA Enclosures | Americord

Understanding the installation environment helps determine the suitable rating. For example, NEMA 4X shelters

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Ice Qube, Inc.

Manufacturer of enclosure cooling for NEMA type electronic enclosures, ICEcube keeps electronics cool with air conditioners, heat

Aisle Containment | Modular Cleanroom & Data Center Containment ...

Depending on your facility's layout, Armstrong Aisle Containment Solutions offer both Hot Aisle Containment (HAC)

Aisle Containment | Vertiv Hot/Cold Aisle Containment Solutions

It supports both hot and cold aisle containment on raised floors or slab data centers, preventing air mixing to deliver uniform and

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