Cold Aisle NEMA4X Manufacturers



Overview

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

Key Takeaways

Leading manufacturers of NEMA 4X enclosures for cold aisle containment include Vililong, RITTAL, ARMAGARD, BOPLA, and AMCO Enclosures, offering corrosion-resistant, watertight solutions for industrial and data center applications.

Key Manufacturers and Offerings

Vililong manufactures high-quality NEMA 4X stainless steel enclosures designed for extreme conditions, providing full protection against dust, high-pressure water jets, and chemical exposure. Their enclosures are ideal for industrial facilities, food and beverage, pharmaceutical, and marine applications. Vililong supports OEM/ODM customization, including size, material thickness, surface finishing, cutouts, and mounting solutions, making them suitable for cold aisle containment in data centers.

RITTA

L, ARMAGARD, and BOPLA are also prominent suppliers of NEMA 4X enclosures. These brands offer a wide range of corrosion-resistant, watertight boxes suitable for protecting electrical and IT equipment in harsh environments. They are commonly listed on industrial marketplaces like DirectIndustry, which provides access to multiple product options and specifications.

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AMC

O Enclosures specializes in welded, high-density enclosures designed for secure electronics and data center applications. Their systems provide controlled airflow, prevent hot/cold air mixing, and reduce cooling energy costs, making them particularly suitable for cold aisle containment setups.

AMC

O enclosures also offer EMI/RFI shielding and modular customization for enterprise IT rooms, colocation facilities, and industrial environments.

Considerations for Cold Aisle Integration

Material: Stainless steel (SUS304 or SUS316) is preferred for NEMA 4X enclosures due to corrosion resistance and durability in washdown or high-moisture environments. Sealing and Gaskets: High-quality sealing is critical to maintain NEMA 4X ratings and prevent water ingress, especially in data centers with frequent cleaning or humid conditions. Compatibility: Ensure the enclosure dimensions and mounting options align with existing 42U, 45U, or 48U rack cabinets and cold aisle containment systems.

Customization: Many manufacturers offer tailored solutions for cutouts, cable management, and airflow optimization to integrate seamlessly with hot/cold aisle containment setups. By selecting from these manufacturers, organizations can secure durable, corrosion-resistant NEMA 4X enclosures that enhance equipment protection and cooling efficiency in cold aisle containment environments.

Article Content

Tate Cold Aisle Containment System

Tate''s Cold Aisle Containment (CAC) system efficiently captures cold air from the CRAH or CRAC unit via an underfloor plenum, ensuring the I.T equipment is

NEMA-Rated Enclosures | Vililong

NEMA-Rated Enclosures Manufacturer We manufacture high-quality NEMA-rated enclosures designed to protect electrical components from dust, water,

61115X NEMA 4-4X FRIGID-X Enclosure Cooler Kit

The NEMA 4-4X (IP66) Stainless Steel Cabinet Panel Coolers provides a low cost method of both purging and cooling electrical and electronic control panels by

NEMA 4X Low Cost Cabinet Cooling for Large and

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NEMA 4X (IP66) Cabinet Coolers are constructed of stainless steel for food service and other corrosive environments. Unlike expensive, freon-based air

NEMA 4X Cabinet Cooler® Systems

NEMA 4X (IP66) Cabinet Coolers are constructed of stainless steel for food service and corrosive environments. Systems for continuous operation include a Cabinet Cooler, cold air distribution kit

NEMA 4X Enclosures | McMaster-Carr

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

Special Cabinet Coolers for specific requirements

NEMA 12, 4 and 4X models are available that are very compact and mount in just minutes through an ordinary electrical knockout. Thermostat control limits compressed air use by operating the Cabinet

Cold Aisle Containment

Cold Aisle Containment or CAC is a proven, relatively easy to deploy solution for effectively managing airflow within a data centre. A CAC system surrounds the

NEMA 4X Temperature Controllers | McMaster-Carr

Choose from our selection of NEMA 4X temperature controllers in a wide range of styles and sizes. Same and Next Day Delivery.

NEMA 1, 3R, 4, 4X, 12 Custom Enclosures Suppliers

Manufacturer of standard and custom electrical, power distribution, safety, explosion-proof, extruded, and weatherproof NEMA-rated enclosures. Made from aluminum, carbon steel, steel, stainless steel,

Chatsworth Data Center Solutions Brochure

Aisle Containment From a variety of airflow management accessories, to patented Vertical Exhaust Duct for the cabinet, to Hot and Cold Aisle Containment, we have a solution that fits your unique need and

Cold Aisle Containment in Data Centers | Subzero

Cold aisle containment systems use doors at aisle ends, ceiling panels or lids above racks, and structural frames to create enclosed zones where cold supply air

A Complete Guide to NEMA 4X Ratings for Industrial Enclosures

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

NEMA 4X Enclosure, Stainless Steel NEMA Type 4X Enclosure Supplier

Custom NEMA 4X Enclosure Manufacturer in China KDM flexible engineering and manufacturing systems allow you to customize enclosures to save our customers valuable time and money in the

NEMA 4 Electrical Enclosures | Bison Profab

NEMA 4 Enclosure High-performance NEMA 4 enclosure systems provide excellent moisture protection for indoor and outdoor applications. At Bison Profab, we manufacture a vast range of stainless steel,

NEMA 4X enclosure, NEMA 4X box

Find your nema 4x enclosure easily amongst the 42 products from the leading brands (RITTAL, ARMAGARD, BOXCO, ...) on DirectIndustry, the industry specialist for your professional purchases.

Weatherproof NEMA Enclosures

Altelix Insulated NEMA Enclosures are designed for extreme cold and hot environments. These enclosures feature 1/2" (12.7mm) thick insulation bonded to all interior sides of the enclosure.

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 centers looking to maximize efficiency as it prevents hot and cold air

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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