



Installation Solution for NEMA4X Cabinets in the Netherlands

Article Overview

Proper installation of NEMA 4X cabinets requires vertical mounting on flat surfaces, adequate ventilation, and compliance with environmental and safety standards.

Mounting Guidelines

NEMA 4X enclosures are designed for outdoor and harsh environments, offering protection against corrosion, dust, and water ingress. To maintain the NEMA 4X rating, cabinets should be mounted vertically on a flat surface. If the top of the cabinet is not available, a side mount kit can be used, such as the Model 4907 90° Side Mount Kit for cabinet coolers. Ensure that the mounting surface is stable and capable of supporting the cabinet's weight and any internal equipment.

Ventilation and Cooling

To prevent condensation and overheating, NEMA 4X cabinets may require ventilation kits or cabinet coolers. For example, Hammond's SDVN4 Type 4X ventilation kit equalizes internal and external pressure and helps prevent condensation, maintaining IP66 compliance. For electronic components, Hazardous Location Cabinet Coolers can remove heat using compressed air, providing up to a 54°F temperature drop from supply air. These coolers should be installed on the top of the enclosure, with proper venting to avoid over-pressurization.

Environmental Considerations

NEMA 4X enclosures are corrosion-resistant and suitable for extreme environments, including outdoor exposure and chemical-laden atmospheres. Materials may include stainless steel or coated metals, and additional treatments like passivation or electro-polishing can enhance durability. Ensure that any filters, oil removal units, or ventilation accessories are installed in non-hazardous areas to allow safe maintenance.

Compliance and Safety

Installation must comply with local electrical codes in the Netherlands, as well as international standards such as UL 508A, NEC, and CSA C22.2 where applicable. For hazardous locations, ensure that cabinet coolers and accessories are UL classified and that the enclosure is properly purged and pressurized before operation.

Additional Tips

- o Use thermostat control for cabinet coolers to minimize compressed air usage.
- o Maintain easy access for maintenance of filters and ventilation components.



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- o Consider modular or free-standing enclosures for flexibility in industrial layouts .
- o Verify that all accessories, including mufflers and cold air distribution kits, are compatible with the NEMA 4X rating. By following these guidelines, NEMA 4X cabinets in the Netherlands can be installed safely, maintain their protective rating, and ensure reliable operation in harsh or outdoor environments.

Increased protection thanks to IP 66 / NEMA 4X. Free-standing stainless steel enclosure with stable enclosure body, two integral

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Understanding NEMA 4X is key to protecting electrical systems in demanding environments. With dust-proofing,

EXAIR's NEMA 4X (IP66) Cabinet Cooler® Systems (dust-tight, oil-tight, splash resistant, corrosion resistant, indoor/outdoor service)

Document Number 471034 NEMA 4/4X Housing Installation Instructions Instructions Knock-out shaft hole in enclosure base (see

NEMA 4X electrical enclosures provide protection for electrical components in harsh environments, both indoors and outdoors.

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A Hazardous Location NEMA 4X Cabinet Cooler® System is available with a thermostat control or in a

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NEMA 4X enclosures and cabinets are fabricated stainless steel grades 304 or 316 and cleaned per ASTM A967 passivation for



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PRefaCe This manual is provided to prevent service personnel from committing an act that results in the risk of fire, electric shock, or

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