Explosion-proof rack specifications and models



Overview

With certifications like IEC Ex, ATEX and UL HazLoc (valid for hazard zones in North America), the enclosures meet the highest international standards for use in explosion hazard areas.

Key Takeaways

Explosion-proof racks are specialized enclosures designed to safely house electrical or battery equipment in hazardous environments, with robust construction, high ingress protection, and certifications for explosive atmospheres.

Key Specifications

Materials and Construction: Stainless steel (AISI 304L or 316L) for high corrosion resistance and durability in harsh environments. Fiberglass-reinforced plastic for lightweight, UV-resistant outdoor applications. Heavy-duty cast metal for containing internal explosions and preventing propagation.

Protection Ratings: IP65 to IP66 / NEMA 4X for dust and water ingress protection. Sealed with foam-in-place gaskets and screw-down clamps to ensure water-tight and dust-tight performance. Certifications: ATEX and IECEx for compliance in explosive atmospheres (zones 1, 2, 21, 22),.

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UL Haz

Loc for North American hazardous locations. MIL-STD-810G and MIL-STD-461F for environmental and electromagnetic compatibility testing. Design Features: Spacious interiors for easy installation and maintenance of controllers, batteries, or other sensitive equipment.

Mounting lugs, universal brackets, and 25 mm pitch patterns for flexible interior configuration. Double-seal doors with integral rain protection strips for outdoor use. Polished glossy finish for stainless steel racks to enhance corrosion resistance and ease of cleaning.

Common Models

Rittal A

X Plastic Ex Enclosures: Suitable for zones 1, 2, 21, 22. Fiberglass-reinforced plastic, UV-resistant, IP65/NEMA 4X. Outdoor-compatible with flexible mounting options.

Delvalle Ex Atex 19″ Rack (Luxorex and Tibex): Stainless steel AISI 304L or 316L, IP66. Seamless foam-in-place gasket, screw-down clamps.

Certified for ATE

X zones 1, 2, 21, 22. Spacious interior for easy connection and installation.

NEWARE Explosion-

Proof Cabinets: Designed for battery storage and charging equipment. Focused on safe containment of lithium-ion and solid-state batteries. Supports environmental adaptability and safety in industrial applications.

Canovate Ex

Proof Cabinets: Heavy-duty metal construction to contain internal explosions. Used in chemical plants, oil refineries, and other high-risk industrial sites. Compliant with ATEX and MIL standards for explosion containment and EMC.

SummaryExplosion-proof racks are engineered to protect personnel and equipment in hazardous environments by containing potential internal explosions and preventing the spread of flammable gases or dust. Selection depends on the hazard zone, environmental conditions, and equipment type, with options ranging from stainless steel IP66 racks for corrosive environments to fiberglass-reinforced plastic enclosures for outdoor applications. Certifications like ATEX, IECEx, and UL HazLoc ensure compliance with international safety standards.

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Article Content

AX plastic Ex enclosures

With certifications like IEC Ex, ATEX and UL HazLoc (valid for hazard zones in North America), the enclosures meet the highest international standards for use in explosion hazard areas.

Stainless Steel EX Enclosures— ATEX and IEC approv

s for Zones 1 and 2 or 21 and 22 to 94/9/EC standards. With foamed-in-place silicone gaskets, these Type 304 Stainless Steel units provide re able protection in potentially explosive atmospheres.

Ex Atex 19" Rack

The increased-safety, IP66 stainless steel Ex Rack 19" enclosure & cabinet Luxorex stands out for its robustness and a very spacious interior. For use in indoor and outdoor corrosive environments that

Explosion Proof

The ex-proof design specifications can comply to different classes of protection proposed by standards. Different ex-proof models are purposely build for various industrial requirements. The modular

Dahua Technology

Dahua Technology is a world-leading video-centric AIoT solution and service provider. With its ''Dahua Think#'' corporate strategy, Dahua Technology focuses on two core businesses: City and Enterprise.

R. STAHL | EXpressure | Enclosure technology | Ex-cabinets

The new EXpressure technology revolutionises explosion protection. The Ex d enclosures for cabinets are lighter and feature minimum space requirements. Moreover, users benefit from faster

Explosion-Proof Rack for Hazardous Areas with ATEX Certification

Explosion-Proof Rack for Hazardous Areas with ATEX Certification, Find Details and Price about Network Cabinet Server Rack from Explosion-Proof Rack for Hazardous Areas with ATEX

Explosion Proof Enclosures for Hazardous Zones & NEMA Ratings

Discover the importance of explosion-proof enclosures in hazardous environments. Spike offers certified solutions for compliance in industrial settings. Read more!

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Explosion Proof Warehouse

Heavy Duty Mobile Rack- Explosion Proof Warehouse: God Speed Heavy Duty Electric Mobile Rack and Heavy Duck Mobile Module can be your best solution/partner for warehousing. Chemistry,

ATEX & IECEx Certified Enclosures

These explosion-proof enclosures are key to increasing safety in high-risk environments. IECEx and ATEX describe general requirements for the construction, testing, and marking of electrical

Delvalle Ex Atex 19″ Rack – Mitra Hazard

Delvalle Ex Atex 19″ Rack The increased-safety IP66 stainless steel Ex Rack 19″ enclosure Luxorex and Tibex stands out for its robustness and a very spacious interior.

Panel Switch Rack Explosionproof

Killark Explosion proof Switch Rack Panel has following features: Applications • Totally wired motor control center • to be used in Hazardous locations due to the presence of flammable gases or

Waterproof IP65 Explosion Proof Metal Steel Wall Mount Distribution ...

Waterproof IP65 Explosion Proof Metal Steel Wall Mount Distribution Control Cabinet Boards Outdoor, Find Details and Price about Server Rack Wall Mount Rack from Waterproof IP65 Explosion Proof

Explosion proof Air Conditioners | Hazardous Areas | Artidor Explosion ...

Looking for certified explosion proof (atex) air conditioner units? Explore Artidor''s safe solutions for Zone 1 and Zone 2 hazardous areas here.

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Explosion-Proof Server Cabinet for Hazardous Industrial Zones

Explosion-Proof Server Cabinet for Hazardous Industrial Zones, Find Details and Price about Network Cabinet Server Rack from Explosion-Proof Server Cabinet for Hazardous Industrial Zones - Ningbo

ATEX Series Explosion Proof Enclosure (Perfect for

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The ATEX series explosion proof enclosure is designed for intermittent explosive environments. Purchase a highly durable explosion proof enclosure, today!

Explosion Proof Warehouse

God Speed Heavy Duty Electric Mobile Rack and Heavy Duck Mobile Module can be your best solution/partner for warehousing. Chemistry, pharmaceuticals, food, logistics or recycling, potentially

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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