

Article Overview

Explosion-proof distribution boxes for factories in hazardous areas are available in ATEX and IECEx certified models, made from stainless steel or GRP, with customizable configurations for tropical and maritime conditions.

Key Features and Materials

Explosion-proof distribution boxes are designed to operate safely in hazardous environments such as chemical plants, oil refineries, and offshore facilities. Common features include:

- o Materials: Stainless steel AISI 316L or 304L for corrosion resistance, or GRP (glass-reinforced polyester) for lightweight and durable enclosures (Atex Delvalle)
- o Protection: Certified for Zone 1, 2, 21, and 22 hazardous areas, with IP66 or higher for dust and water ingress protection
- o Temperature Range: Components can withstand extreme temperatures, often from -40 °C upwards
- o Customization: Configurable internal layouts, push buttons, switches, LED indicators, voltmeters, and ammeters can be mounted according to operational needs (Atex Delvalle, MINMILE, BARTEC)

Certifications

For factory applications in the Maldives, it is crucial to select boxes with recognized international certifications:

- o ATEX: European Union standard for explosive atmospheres
- o IECEx: International certification for hazardous area equipment
- o UL: Optional certification for additional safety compliance
- o DNV, CSA, TUV: Additional certifications for marine or offshore use (CZ Electric, BARTEC)

Model Examples

- o Atex Delvalle Series: Stainless steel or GRP enclosures, fully customizable, suitable for maritime and tropical climates, with options for multiple control elements under a single actuator .
- o MINMILE Explosion-Proof Device Boxes: Compact protective housings for chemical, oil, and military applications, supporting various mounting types and cable entries .
- o BARTEC ComEx System: Flexible control and signaling devices, configurable for low- and medium-voltage distribution, with options for Ex d (flameproof), Ex e (increased safety), and Ex i (intrinsically safe) enclosures .
- o CZ Electric MCB Boxes: Explosion-proof circuit breaker boxes with IP66 protection, IECEx and ATEX



Maldives factory explosion-proof distribution box model

certified, suitable for factory and industrial installations .

- o Anti-Static Factory Distribution Box: Patent-based design with ventilation, ash removal, and explosion-proof components for enhanced safety in factory buildings .

Considerations for the Maldives

- o Climate: High humidity and salt exposure require corrosion-resistant materials like AISI 316L stainless steel
 - o Customization: Ensure internal layout and cable entry options match factory equipment and power distribution needs
 - o Maintenance: Choose models with easy access for inspection and replacement of components
- Selecting the right explosion-proof distribution box involves balancing certification, material durability, environmental suitability, and customization to ensure safe and reliable operation in hazardous factory environments in the Maldives.

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When to Choose an Explosion-Proof Distribution Box Necessary in dangerous environments

An explosion-proof distribution box is a specialized enclosure designed to contain internal explosions and prevent the escape of

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Warom Explosion proof Distribution Box (Ex d llB+H2) in 316 stainless steel. Available with a wide range of built in components.

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