Ex empty AX enclosure made of plastic

Rittal at the Hannover Messe

17 to 21 April 2023   
in Hall 11, Booth E06

|  |
| --- |
|  |
| **Corporate Communications**  Dr Carola Hilbrand Phone: +49 2772 505-2527 E-mail: hilbrand.c@rittal.de  Hans-Robert Koch Phone: +49 2772 505-2693 E-mail: [koch.hr@rittal.de](mailto:koch.hr@rittal.de)  Steffen Maltzan Phone: +49 2772 505-2680 E-mail: maltzan.s@rittal.de  Rittal GmbH & Co. KG Auf dem Stützelberg 35745 Herborn, Germany www.rittal.com |
|  |

More than explosion protection

In areas at risk of explosion, enclosure systems must meet the highest safety requirements. Such fields include petrochemicals, refineries, oil platforms, filling stations or infrastructure areas involving LNG and now – increasingly – hydrogen. These safety requirements include ATEX, IECEx and UL HazLoc approvals. Rittal’s new AX plastic Ex enclosures offer this certified safety. Furthermore, thanks to their high level of robustness, outdoor capability and wide range of expansion options, both plant operators and constructors gain a massive amount of added value.

Herborn/Hannover, 18. April 2023 – Enclosure systems in Europe and North America must strictly adhere to multiple safety requirements and standards to protect people and technology from possible explosions and fires. Enclosures used in hazardous areas that house a variety of equipment or components must have ATEX, IECEx or UL HazLoc approvals. These standards specify far higher demands for products to limit the greater risks in their application areas.

Rittal’s new AX Ex empty enclosures made of glass reinforced polyester, which replace the previous KS-based enclosures, adhere to these requirements. They are approved for use cases in potentially explosive atmospheres caused by gases (zones 1 and 2) or dust (zones 21 and 22). The result is an enclosure technology that fulfils all the preconditions for maximum safety and robustness, including for outdoor applications. Tightness is ensured by a secure enclosure design with double sealing at the top and bottom edges of the door provided by an integrated rain protection strip made of robust material resistant to temperature and UV emissions.  
At the same time, the new Ex enclosures simplify interior installation and offer far more mounting options. Numerous mounting bosses in the enclosure make interior installation easy. They allow system accessories such as punched sections, bars and rails to be screwed to the inside of the enclosure quickly and directly. Door-operated switches and door stays can also be directly attached to the mounting bosses. Moreover, DIN rails in the enclosure can be screwed directly onto the existing mounting bosses. The mounting plate can be easily screwed from the front using the pre-assembled bolts and even be earthed later via the existing machined keyhole. Besides this, wall mounting is easily implemented via the external threaded inserts while retaining UL certification and the protection class.

The new AX plastic Ex enclosures come in eight versions ranging from 200 to 800 mm wide, 300 to 1,000 mm high and 150 to 300 mm deep. Rittal’s product range also includes Ex enclosures made of stainless steel.

Ex enclosures are used in refineries, drilling platforms, oil tankers, pipelines and infrastructure applications revolving around LNG, hydrogen, for example. They are also used where fine dust can be generated that may ignite, such as in mills or large bakeries.

(3,009 characters)



**Images**

Image 1 (fri230402110.jpg): In areas at risk of explosion, enclosure systems must meet the highest safety requirements. Such fields include petrochemicals, refineries, oil platforms, filling stations or infrastructure areas involving LNG and now – increasingly – hydrogen. These safety requirements include ATEX, IECEx and UL HazLoc approvals. Rittal’s new AX plastic Ex enclosures offer this certified safety.

May be reproduced free of charge. Please name Rittal GmbH & Co. KG as the source.

**About Rittal**

Rittal, headquartered in Herborn, Germany, is a leading global provider of solutions for industrial enclosures, power distribution, climate control and IT infrastructure, as well as software and services. Systems made by Rittal are deployed in over 90 per cent of all industries across the world, including machine building and plant engineering, food and beverage, and IT and telecommunications.

The international market leader’s product portfolio includes configurable enclosures, with data available across the entire production process. Smart Rittal cooling systems, with up to 75 per cent lower power and a great carbon emissions advantage can communicate with the production landscape, enabling predictive maintenance and servicing. The range also includes innovative IT products, from IT racks and modular data centres, to edge and hyperscale computing solutions.

Leading software providers Eplan and Cideon further add value by providing cross-discipline design and engineering services, while Rittal Automation Systems offers solutions for switchgear. Within Germany, Rittal can supply products on demand within 24 hours – with precision, flexibility and efficiency.

Founded in 1961, Rittal is the largest company in the owner-operated Friedhelm Loh Group. The Friedhelm Loh Group is active worldwide, with 12 production sites and 95 international subsidiaries. It has more than 12,000 employees and posted revenues of € 3 billion in fiscal 2022. In 2022, the family-run business was named one of Germany’s leading employers by the Top Employers Institute, for the 14th year running. Within the scope of a Germany-wide survey, Focus Money magazine identified the Friedhelm Loh Group as one of the nation's best providers of vocational training for the fifth time in 2021. In 2022, Rittal was awarded the Top 100 Seal as one of Germany’s most innovative medium-sized companies.

For more information, visit www.rittal.com and [www.friedhelm-loh-group.com](http://www.friedhelm-loh-group.com).