

Explosion-proof
enclosures



h^äwa 

Well Conceived



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Ex „e“/Ex „t“

„Explosion protection for the highest requirements“

Process oriented industries need reliable and secure solutions for the operation of their facilities - today as well as in the future.

Danger to people and plants in a potential explosive environment exists not only in typical areas like the chemical-, energy-, mining-, and mill industry, but also within the food-, animal feed-, pharmacy-, and other industries.

„Even normal dust can cause explosions.“

With what substances do you come into contact with? What substances are you handling?

For your components, hāwa HEXe enclosures provide optimum protection when working in hazardous areas. The basis for the series HEXe are our proven enclosure concepts.

Adapted to the current requirements of the standard series EN 60079, the HEXe enclosures fulfill the mandatory mechanical and protection class tests for accelerated conditions of aging of the seal material. It is precisely this resistance of the enclosure's seal that is the basis for its long-term reliability.

„hāwa is conscious of its responsibility“

At hāwa, development, training, and the auditing of employees who are involved in the production process based under directive RL 94/9/EC. DIN EN 13980: 2002 have the same priority as a good product desing. Enclosures from hāwa are:

- designed for the protection class increased safety „e“ and protection by enclosure „t“ and can be used for installations and applications in gas and dust explosionvulnerable areas.
- Certified by independent body.
- Per EC construction type examination certificate number EPS 09 ATEX 1 175 U usable in gas and dust explosionvulnerable areas.

II 2G Ex eb IIC
II 2D Ex tb IIIC



„Explosion protection for the highest requirements“

Enclosures and cabinets built for protection type Ex „p“ or „pD“ pressurization.

The need for complex electronic products and specialized demands rises continuously.

The issue: not everything can be made explosion-proof.

The solution: the Ex „p“ protection type pressurization enables non-explosion proof components or devices to be installed safely in potentially hazardous areas of zone 1 and zone 2.

**How it works:**

The enclosure is filled with an ignition protection gas. After being rinsed under specific conditions, to maintain its pressure. An explosive gas mixture can therefore not penetrate the internal source of possible ignition. If necessary, the enclosure can be permanently supplied with ignition protection gas.

Caution:

In dust explosion hazardous areas, it may not be rinsed to avoid dust whirls - the enclosure interior should be cleaned.

In general counts:

the denser the enclosure, the smaller the leakage, therefore lowering the total expenses and operating costs for the ignition protection gas.

Enclosures without hard to reach areas and corners have a shorter rinsing time than ensuring faster system start-up.

Ex „p“ blank enclosures are manufactured for zone 1 and 2 without certification. Manufacturers of equipment in the pressurized enclosure with ignition protection ex „p“ or „pD“ type, can be referred to: R. Stahl GmbH, Waldenburg. This specific manufacturer undertakes all required tests specified for certification of equipment.

Each enclosure undergoes conformity inspection.

Ex „p“ cooling units

Cooling equipment ranging from 800 W to over 2000 W possible in combination with Ex „p“ type enclosures.

For more information, please contact your hawa enclosure consultant.



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