

ATEX CABINETS : EXNR ZONE 2 CABINET

CHARACTERISTICS :

- Unlimited configurations and dimensions
- 316L stainless steel or painted steel construction (IP66)
- Stainless steel locks and hinges
- Cable passes
- Windows
- Operator interfaces: keyboard, buttons, LEDs, ...
- Passive operation, no external power supply or compressed air required
- ATEX category 3 certified with your equipment installed.
- Usable in zone 2 ATEX



GENERALITIES :

Restricted breathing is a method of cabinet protection such that the possibility of penetration, for an external explosive atmosphere, is reduced to a near zero level. This method is used only in zone 2 where the presence of explosive atmosphere results from abnormal conditions and this for a period of less than ten hours per year.

POSSIBLE OPTIONS :

- Access plate on all sides
- Polycarbonate or safety glass window
- Buttons, lamps, indicators, keyboards, mouse, ...
- External connection box for electrical connections (to avoid changing the integrity of the cabinet when opening)
- Internal chassis for mounting equipment

THE CONCEPT OF RESTRICTED BREATHING :

The principle of the concept of restricted breathing is based on the construction of particularly tight envelopes. This limits the possibility for explosive gases to enter the interior. This technique ensures that the concentration inside the envelope will never exceed the minimum level of flammability, even over a long period, given the possible duration of presence of gas in the environment.

TYPE OF EQUIPMENT INSTALLED (EXAMPLES) :

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APPLICATION OF THE CONCEPT :

This technique is used to protect devices that produce sparks under normal conditions of use or that have components that can heat. Installed equipment can not increase envelope temperature by more than 10°C. KERMAZ enclosures have been designed for this purpose in order to respect the characteristics of the equipment. Tests are performed on the assembled systems to verify that the operating conditions are met

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Directive ATEX 94/09/CE (ATEX 100A)
EN60079-0 (2006) : for hardware in general
EN60079-15 (2005) : for the type of protection «n»
EN60079-7 (2003) : for equipment with increased safety

MARKING :

II 3G EEx-nR II T6