





## Pressurized cabinets

TNCNP Cabinets

**BARTEC** **TECHNOR**

### Features

BARTEC TECHNOR's Ex p pressurized cabinets are designed and purpose built according to each client's requirements. Our ability to deliver "Custom Made" is one of the main reasons for choosing a BARTEC TECHNOR solution. We deliver turn-key solutions with cabinets made in stainless steel 316L, certified by DNV.

#### Main advantages by choosing TNCNP Cabinets:

- Large flexibility regarding design of cabinets.
- Tailor-made solutions according to clients request.
- Excellent solution by use of electrical components with:
  - high heat dissipation
  - large physical measures and weight

- High operational reliability and cost efficiency, reduced lifetime maintenance costs.
- ATEX approved.

#### Options:

- Windows (max.size: 0,3m<sup>2</sup> for each window)
- Mounting plates
- Lifting lugs
- Plinth
- Multi cable transit frames (MCT)
- Certified components mounted in door or walls
- One or several doors
- Air Condition cooling/heating units

### Applications

For use of standard (non-ex) electrical components in Zone 1 and 2:

- Monitoring systems
- Control systems
- HMI/Computers
- Driller consoles
- Large motor starters
- Transformers
- VDF's

### General Specifications

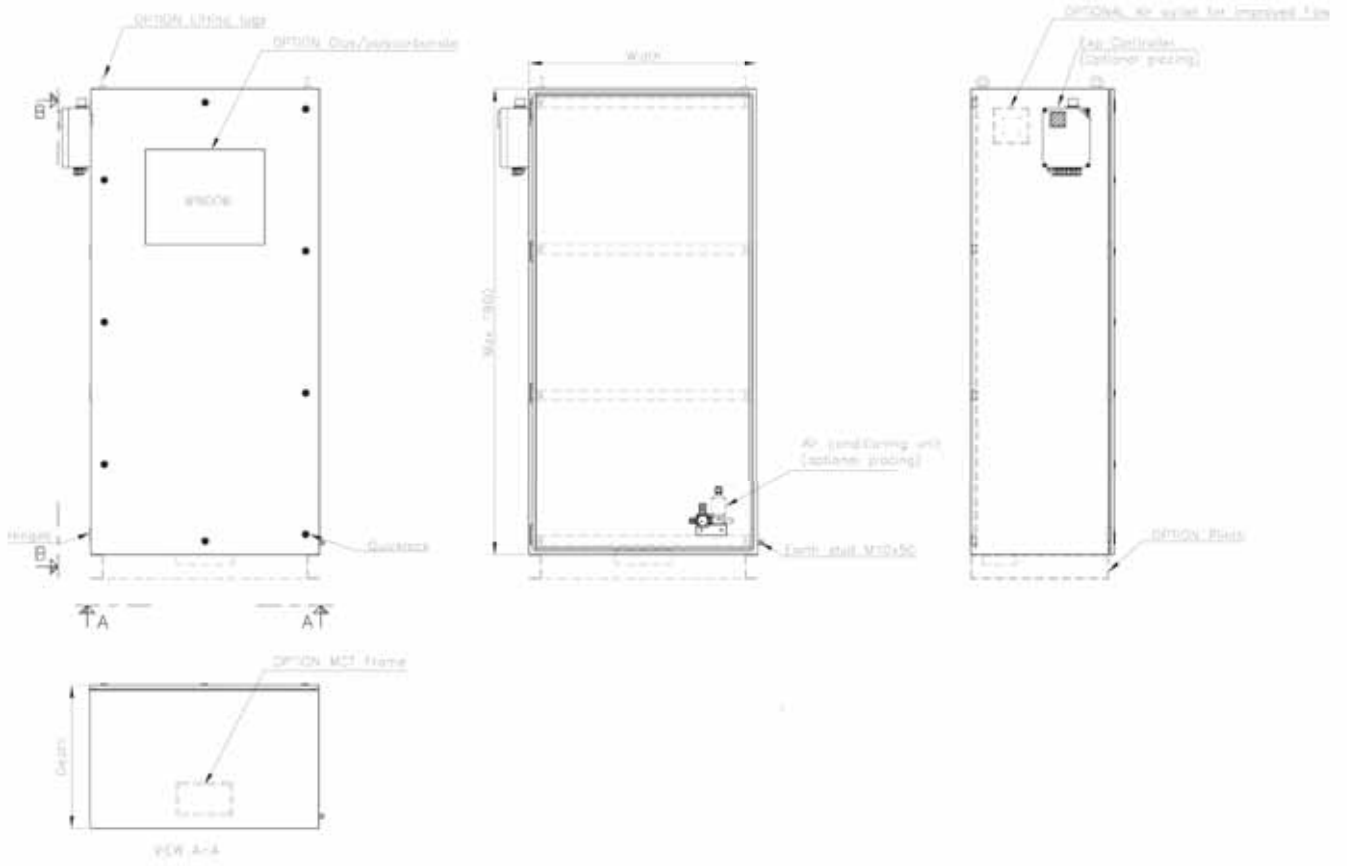
Material	Stainless steel 316L
IP Rating	IP66/IP67 (Cabinets) IP65 when Ex p controller fitted
Ambient temperature	-20°C to +60°C
Optional	-40°C to +60°C
ATEX approvals:	
- Complete system	Zone 1: BVS11ATEXE144 Zone 2: BVS11ATEXE145
- Empty enclosure	DNV-2003-OSL-ATEX-0027U
IECEx complete system	Zone 2: IECEx BVS 11.0070
GOST R Complete system	Zone1/2: POCC DE.ME92.1302732
Standards	IEC: 60079-0, 60079-2. 60079-11
Ex-code	⊕ II 2 G / II 3 G Ex p II / Ex px IIC / Ex pz IIC
Lid/Door gasket	Neoprene (operating temp. -40°C to +100°C) Silicone (operating temp. -40°C to +200°C)
Surface treatment	Shotblasting and Acidized as standard



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## Hazardous area information & terminology

### ATEX Directive

The ATEX Directive, derived from the French "ATmosphères EXplosibles" and formally known as 94/9/EC, contains the ESR (Essential Safety Requirements) to which electrical equipment and protective systems used within potentially explosive atmospheres must conform.

The new ATEX Directive currently in place within the European Union was made mandatory on 1st July 2003. Primarily intended for manufacturers of hazardous area equipment for use in the presence of flammable gases, vapours, fumes or dusts, the new directive requires a quality management system to be implemented.

Procedures for the design, manufacture and verification of products are to be approved by a notified body (i.e. DNV, NEMKO, etc.) and all equipment conforming to the new directive will feature CE and Ex Marking.

### Zone Classification with the presence of GAS

Zone 1 (Category 2)	An area in which explosive gas is likely to be present during normal operation of the plant.
Zone 2 (Category 3)	An area in which explosive gas is not continuously present, but may exist for a short period of time.

### Applicable EX protection

#### Ex p Protection

The ingress of the surrounding atmosphere into the housing of electrical equipment is prevented by maintaining an ignition shield gas (air or a different suitable gas) inside it at a pressure above atmospheric pressure. The overpressure is maintained with continuous flushing of the protective gas.

