

# PRESSURIZED CABINETS

## QPREX Series - Stainless steel AISI 316 L



Modular building system allows to realize customized volume up to 5m<sup>3</sup>. One of the system that offers the widest possibilities on the market. A single system of pressurization and washing can manage multiple modules in series. New gasket technology minimizes the dispersion of inactive gas, increasing efficiency of pressurized system and reduce operating costs. Quick access: easy opening and maintenance, when the doors open the system disconnects (zone 1 only); when the doors are closed again, after the start of the washing cycle, the system will start again automatically.

### MARKING

ATEX	For zone 2
II 2G or II 2D or II 2(1)G or II 2(2)G or II 2(1)D or II 2(2)D	II 3G or II 3D or II 3(1)G or II 3(2)G or II 3(1)D or II 3(2)D
IECEX	Ex pzc (*3*) IIB/IIB+H2/IIC T6 ...T3 Gc
Ex pxb (*1*) IIB/IIB+H2/IIC T6 ...T3 Gb	Ex pzc (*4*) IIIB/IIIC T85°C ... T200°C Dc
Ex pxb (*2*) IIIB/IIIC T85°C ... T200°C Db	Ex pzc (*3*) [ia IIC Ga / ib IIC Gb] IIB/IIB+H2/IIC T6 ...T3 Gc
Ex pxb (*1*) [ia IIC Ga / ib IIC Gb] IIB/IIB+H2/IIC T6 ...T3 Gb	Ex pzc (*4*) [ia IIIC Da] IIIB/IIIC T85°C ... T200°C Dc
Ex pxb (*2*) [ia IIIC Da] IIIB/IIIC T85°C T200°C Db	

## TECHNICAL FEATURES

<b>Material</b>	AISI 316 L, AISI 304 or painted sendzimir steel	
<b>IP rating</b>	IP65	
<b>Ambient temperature range</b>	From -50°C to +60°C (only cabinet)	
<b>Approvals</b>	Zone 1 INERIS 23 ATEX 0031X IECEX INE 23.0066X	Zone 2 INERIS 23 ATEX 3012X (3GD)
<b>Gaskets</b>	SILICONE	
<b>Dimensions</b>	From 0,125 m <sup>3</sup> to 5 m <sup>3</sup>	
<b>Standard Height</b>	1400mm; 1700mm; 2000mm	
<b>Standard Width</b>	1000mm; 1500mm; 2000mm; 2500mm	
<b>Standard Depth</b>	600mm; 800mm; 1000mm	
<b>Special standard dimension for 0,125 m<sup>3</sup></b>	500x500x500mm	
<b>Nominal Power max.</b>	6 kVA	
<b>Nominal Voltage max.</b>	24 kVAC / 1500 VDC	
<b>Internal Generated voltage max (ignition transformer)</b>	24 kVAC	
<b>Nominal Current max.</b>	3000 A	
<b>Max controller current</b>	3500 A	
<b>Nominal Frequency</b>	0-1000 Hz	
<b>Marking details</b>	<p>(*1*) (db, eb, ma, mb, ia, ib, etc.) according to the inner/outer "Ex" installed components</p> <p>(*2*) (ta, tb, mb, ia, ib, etc.) according to the inner/outer "Ex" installed components</p> <p>(*3*) (db, dc, eb, ec, ma, mb, mc, ia, ib, ic, etc.) according to the inner/outer "Ex" installed components</p> <p>(*4*) (ta, tb, tc, ma, mb, mc, ia, ib, ic, etc.) according to the inner/outer "Ex" installed components</p>	

**Climatization** Vortex, Air conditioner, Cooling/heating water systems, Antic condensate heater.

**Pressurisation system** Technor Italsmea TEX1 (zone 1/21 - SIL2 \*) or TEX 2 [Zone 2/22]  
Pepperl Fuchs BEBCO EPS-6500  
Gönnheimer Elektronik GmbH series FS870S.

## With TEX1 pressurization system

**Approvals** ATEX, IECEx for Zone 1-21 (SIL2)

**Marking** II (2) G [Ex ia pxb Gb] IIC  
II (2) D [Ex ia pxb Db] IIIC

**Ambient temperature** IIC

**Temperature class** T5; T4

**Ambient temperature** 0°C/+55°C for standard version  
-20°C/+55°C for low temperature version

**Pressurization system** TUV 15ATEX161466X  
IECEx TUN 15.0025X

**SIL (Safety Integrity Level)** The safety and integrity of the purge/pressurization system type TEX1 is tested according to IEC61511-1:2003 for single fault evaluation (HFT=1) up to SIL2 level

## With TEX2 pressurization system

**Approvals** ATEX, IECEx for Zone 2-22

**Marking** II (3) G [Ex ia pzc Gc] IIC  
II (3) D [Ex ia pzc Dc] IIIC

**Ambient temperature** -20°C/+55°C for standard version  
-40°C/+55°C for low-temperature version

**Pressurization system** TUV 15ATEX161467X  
IECEx TUN 15.0025X



Vortex Cooler



Atex-certified anticondensation heaters