

PRESSURIZED CABINETS

QPREX Series - Stainless steel AISI 316 L



Modular building system allows to realize customized volume up to 5m³. 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

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

IECEX

Ex pxb (*1*) IIB/IIB+H2/IIC T6 ...T3 Gb

Ex pxb (*2*) IIIB/IIIC T85°C ... T200°C Db

Ex pxb (*1*) [ia IIC Ga / ib IIC Gb] IIB/IIB+H2/IIC T6 ...T3 Gb

Ex pxb (*2*) [ia IIIC Da] IIIB/IIIC T85°C

T200°C Db

For zone 2

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

Ex pzc (*3*) IIB/IIB+H2/IIC T6 ...T3 Gc

Ex pzc (*4*) IIIB/IIIC T85°C ... T200°C Dc

Ex pzc (*3*) [ia IIC Ga / ib IIC Gb] IIB/IIB+H2/IIC T6 ...T3 Gc

Ex pzc (*4*) [ia IIIC Da] IIIB/IIIC T85°C ...

T200°C Dc

TECHNICAL FEATURES

Material	AISI 316 L, AISI 304 or painted sendzimir steel	
IP rating	IP65	
Ambient temperature range	From -50°C to +60°C (only cabinet)	
Approvals	Zone 1 INERIS 23 ATEX 0031X IECEX INE 23.0066X	Zone 2 INERIS 23 ATEX 3012X (3GD)
Gaskets	SILICONE	
Dimensions	From 0,125 m ³ to 5 m ³	
Standard Height	1400mm; 1700mm; 2000mm	
Standard Width	1000mm; 1500mm; 2000mm; 2500mm	
Standard Depth	600mm; 800mm; 1000mm	
Special standard dimension for 0,125 m³	500x500x500mm	
Nominal Power max.	6 kVA	
Nominal Voltage max.	24 kVAC / 1500 VDC	
Internal Generated voltage max (ignition transformer)	24 kVAC	
Nominal Current max.	3000 A	
Max controller current	3500 A	
Nominal Frequency	0-1000 Hz	
Marking details	(*1*) (db, eb, ma, mb, ia, ib, etc.) according to the inner/outer "Ex" installed components (*2*) (ta, tb, mb, ia, ib, etc.) according to the inner/outer "Ex" installed components (*3*) (db, dc, eb, ec, ma, mb, mc, ia, ib, ic, etc.) according to the inner/outer "Ex" installed components (*4*) (ta, tb, tc, ma, mb, mc, ia, ib, ic, etc.) according to the inner/outer "Ex" installed components	

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