


Translation

(1) Type Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) No. of Type Examination Certificate: **BVS 11 ATEX E 145**
- (4) Equipment: **SILAS Pressurized Cabinet type *7-37*3-****/******
- (5) Manufacturer: **BARTEC GmbH**
- (6) Address: **97980 Bad Mergentheim**
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.
- (8) The certification body of DEKRA EXAM GmbH certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of Category 3 equipment intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in the test and assessment report BVS PP 11.2209 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- | | |
|-------------------------|------------------------------|
| IEC 60079-0:2011 | General requirements |
| EN 60079-2:2007 | Pressurized enclosure |
| EN 60079-11:2007 | Intrinsic safety '1' |
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.
- (11) This Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:

 **II 3G Ex pz IIC T3-T6 Gc or
II 3G Ex pz ib IIC T3-T6 Gc**

DEKRA EXAM GmbH
Bochum, dated 19.09.2011

Signed: Simanski

Certification body

Signed: Leiendecker

Special services unit

(13) Appendix to

(14) **Type Examination Certificate**
BVS 11 ATEX E 145

(15) 15.1 Subject and type

SPC – SILAS Pressurized Cabinet type *¹⁾7-37*²⁾3-³⁾*⁴⁾*⁵⁾*⁶⁾/*****⁷⁾

¹⁾ product marking

A = SPC – SILAS Pressurized Cabinet

²⁾ site

0 = category 2G / ATEX

³⁾ purge system

1 = pressurization with leakage compensation

2 = pressurization with dilution

⁴⁾ system

0 = no containment

⁵⁾ size of pressurized enclosure

1 = to 50 dm³

2 = over 50 dm³ to 150 dm³

3 = over 150 dm³ to 300 dm³

4 = over 300 dm³ to 700 dm³

5 = over 700 dm³ to 1440 dm³

6 = multi-door variant

⁶⁾ material pressurized cabinet

0 = sheet steel, coated

1 = stainless steel

2 = plastic (separate certified)

15.2 Description

The SPC – SILAS Pressurized Cabinet type *7-37*3-****/**** is a cabinet-system which is protected by pressurized enclosure “p” for zone 1. It consist of a cabinet with a control unit, pressure regulator with pressure gauge, digital purge valve. The cabinet-system can be built in six different enclosure sizes.

The Ex p control unit APEX Control System SILAS der Firma Bartec (TÜV 09 ATEX 553359) will be used.

Optionally following parts can be part of the pressurized cabinet:

- Safety glass window
- Safety foil
- Operating and viewing panels with or without touch function (Touch with a barrier in equipment protection by intrinsic safety “ib”)
- Actuating elements (e.g. pushbutton, lamp modules, and / or illuminated button)
- Keyboards in two variants. Keyboard with metal front or keyboard with front foil and a barrier in equipment protection by intrinsic safety “ib”.

15.3 Parameters

nominal voltage	max. 690 V
cabinet volume	max. 6336 dm ³
IP-protection	≥ IP 4x
ambient temperature	-20°C ... +60°C (T3 – T5) -20°C ... +40°C (T6)
purging gas pre compression	1 ... 25 bar
service pressure	2 ... 4 mbar
purging pressure	1 ... 20 mbar
minimum overpressure	0.8 mbar

(16) Test and assessment report

BVS PP 11.2209 EG as of 19.09.2011

(17) Special conditions for safe use

None

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
44809 Bochum, 19.09.2011
BVS-Yil/Sch A 20110594



Certification body



Special services unit