

Translation

EU-Type Examination Certificate

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 20 ATEX E 060 X**

Product: **APC – APEX Pressurized Cabinet type *7-3704-****/******

Manufacturer: **BARTEC GmbH**

Address: **Max-Eyth-Str. 16, 97980 Bad Mergentheim, Germany**

This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

DEKRA Testing and Certification GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential Report No. BVS PP 20.2084 EU.

The Essential Health and Safety Requirements are assured in consideration of:

EN IEC 60079-0:2018

General requirements

EN 60079-2:2014

Pressurized enclosure “p”

EN 60079-11:2012

Intrinsic Safety “i”

If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:



II 2G Ex pxb/pyb * IIC T5-T3 Gb

II 2D Ex pxb/pyb * IIIC T95 °C-T130 °C Db

* Optional the marking can be amplified with the following types of protection db, eb, ib, mb, op is, qb, [ia Ga/Da] and/or [ib Gb/Db] for using separately certified components.

DEKRA Testing and Certification GmbH
Bochum, 2020-08-03

Signed: Jörg-Timm Kilisch

Managing Director

13 **Appendix**

14 **EU-Type Examination Certificate**

BVS 20 ATEX E 060 X

15 **Product description**

15.1 **Subject and type**

APC – APEX Cabinet type *1)7-3704 *2)*3)*4)*5)/****6)

- 1) product marking
0 = APC – APEX Pressurized Cabinet
- 2) use
1 = EPL Gb / Db
2 = EPL Gb
3 = EPL Db
- 3) Ex p system
1 = Ex pyb
2 = Ex pxb
- 4) size of pressurized enclosure
1 = Size I to 50 dm³
2 = Size II over 50 dm³ to 150 dm³
3 = Size III over 150 dm³ to 300 dm³
4 = Size IV over 300 dm³ to 700 dm³
5 = Size V over 700 dm³ to 1440 dm³
6 = Size VI over 1440 dm³ to 5405 dm³
7 = Size VII over 5405 dm³ to 9370 dm³
8 = Size VIII over 9370 dm³ to 13365 dm³
9 = Size IX over 13365 dm³ to 17300 dm³
- 5) material pressurized cabinet
1 = sheet steel, coated
2 = stainless steel
3 = aluminium (separate certified)
4 = plastic (separate certified)
- 6) no influence on explosion protection

15.2 **Description**

The APC-APEX Pressurized Cabinet type 07-3704-****/**** is a cabinet-system which is protected by pressurized enclosure “p” for zone 1/21. It consists of a cabinet with a control unit, pressure regulator with pressure gauge, digital purge valve and / or a proportional purge valve. The cabinet-system can be built in nine different enclosure sizes.

The BARTEC Ex p control unit APEX (BVS 19 ATEX E015X) in combination with Ex p control unit (BVS 19 ATEX E018U) will be used. Alternatively the Ex p control unit (BVS 19 ATEX E018U) can be mounted directly into the Ex p housing.

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”
- Direct installation of Ex components in the Ex p housing, which are certified separately

15.3 Parameters

Nominal voltage	max. 10 kV ± 10 %
Nominal current	max. 10 kA
Cabinet volume	max. 17300 dm ³
IP-protection	≥ IP 4x
Ambient temperature	max. -55 °C ... +70 °C (T3 – T5) (depends on the used empty enclosure and mounting equipment) -20 °C ... +40 °C (T6)
Purging gas pre compression	1 ... 25 bar
Service pressure	2 ... 4 mbar (or 50 ... 200 mbar) (depends on the application)
Purging pressure	1 ... 20 mbar
Minimum overpressure	0.8 mbar

16 Report Number

BVS PP 20.2084 EU, as of 2020-08-03

17 Special Conditions for Use

The specification of use for the separately certified equipment have to be observed by the user.

18 Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed under **item 9**.

19 Drawings and Documents

Drawings and documents are listed in the confidential report.

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 Testing and Certification GmbH
Bochum, 2020-08-03
BVS-Pz A20200409



Managing Director