

(1) **Certificate of Conformity**

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**
 (3) Certificate Number

EPS 16 ATEX 2 117 X

Revision 2

- (4) Equipment: Air handling unit type X-CUBE-Ex
 (5) Manufacturer: TROX GmbH
 (6) Address: Heinrich-Trox-Platz
 47504 Neukirchen-Vluyn
 Germany
 (7) This equipment and any acceptable variation thereto are specified in the annex to this Certificate of Conformity and the documentation therein referred to.
 (8) Bureau Veritas Consumer Products Services Germany GmbH certifies based on a voluntary assessment that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive 2014/34/EU. The examination and test results are recorded in the confidential documentation under the reference number 16TH0262.
 (9) Compliance with the essential health and safety requirements has been assured by compliance with:

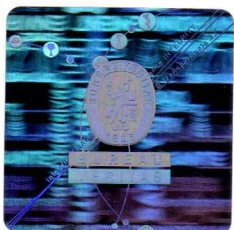
EN IEC 60079-0:2018

EN ISO 80079-36:2016

EN ISO 80079-37:2016

- (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 annex to this certificate.
 (11) This Certificate of Conformity relates only to the design and the construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.
 (12) The marking of the equipment shall include the following:

-  II 2G Ex h IIA/IIB/IIB+H2/IIC T3/T4 Gb (inside / outside)
 II 3G Ex h IIA/IIB/IIB+H2/IIC T3/T4 Gc (inside / outside)
 II 2D Ex h IIIB T135°C Db (inside / outside)
 II 3D Ex h IIIB T135°C Dc (inside / outside)



Certification department of explosion protection

Tuerkheim, 2022-06-14

Ulrich Feike

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.

(13) **Annex**

(14) **Certificate of Conformity EPS 16 ATEX 2 117 X**

Revision 2

(15) Description of equipment:

The TROX Air handling unit type X-CUBE-Ex is used exclusively for the treatment of air. That means transport, filtering, heating, cooling, humidified and dehumidified of air in explosive areas.

All metal parts are conductively connected to each other and need to be involved in the local earth protection.

To avoid static charges, the non-metallic parts are either provided with a warning mark, conductive with a surface resistance $< 10^9 \Omega$, complied with the area restrictions of EN ISO 80079-36 or the not chargeability is detected accordingly. Stretched, rechargeable non-metallic components have a diameter of less 3 cm for gas group IIA and IIB and less than 2 cm for gas groups IIB+H2 and IIC.

Coating thickness are limited in the gas groups IIA and IIB to a maximum thickness of 2 mm and to a maximum thickness of 0.2 mm for gas groups IIB+H2 and IIC. In the presence of strong charge generating processes no paint is present or the breakdown voltage of the paint used is in addition to the layer thickness criteria $< 4 \text{ kV}$.

All electrical and mechanical equipment and components are designed suitable for installation in the respective hazardous area in terms of category, gas group and temperature class.

The resulting ambient temperature range and the resultant temperature class corresponds to the most unfavorable parameters of the equipment used.

(16) Reference number: 16TH0262

(17) Special conditions for safe use:

The operator shall ensure that, in accordance with EN 1127-1, there is a sufficient safety margin between the medium temperature and the minimum ignition temperature of the potentially explosive mixture.

When installing on-site, it shall be ensured that the device connection ensures that the grounding for all built-in devices and components are permanently guaranteed. All metallic parts of the air handling unit shall be included in the local potential equalization measure.

Ambient temperature range: $-20 \text{ °C} \leq T_a \leq +40 \text{ °C}$

When using suitable devices and components, the maximum ambient and operating temperature range is increased to $+60 \text{ °C}$.

The lightning protection of the system is ensured by the operator.

(18) Essential health and safety requirements:

Met by compliance with standards.

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