(1) # Conformity Statement

TRANSLATION

Product Service

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – **Directive 2014/34/EU**

(3) Number of Certificate of Conformity Statement:

TPS 21 ATEX 0085751 0010 X Issue 00

(4) Equipment: Non-electrical equipment and components of group II, category 2
Fan type: AXC-EX and AXCBF-EX

(5) Manufacturer: Systemair GmbH

(6) Adress: Seehöfer Strasse 45
97944 Boxberg
Germany

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) TÜV SÜD Product Service GmbH certifies, based on a voluntary testing, 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. The examination and test results are recorded in the confidential report No. 713194301. This Certificate is valid until 2026-03-18.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN ISO 80079-36:2016 **EN ISO 80079-37:2016**

EN IEC 60079-0:2018 **EN 14986:2017**

(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 schedule to this certificate.

(11) This Conformity Statement 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 manufacturer and supply of this equipment.

(12) The marking of the equipment shall include the following:

II 2G Ex h IIB+H2 T6 … T1 Gb

Certification body Explosion Protection
Ridlerstrasse 65, 80339 München

München, 2021-03-19

digitally signed by von U. Jacobs on 19.03.2021 / 11:00

TÜV SÜD Product Service GmbH • Zertifizierstelle • Ridlerstraße 65 • 80339 München • Deutschland

TÜV®

Product Service

(13) **Schedule**

(14) **Conformity Statement TPS 21 ATEX 0085751 0010 X** Issue 00

(15) Description of equipment:

The AXC-EX and AXCBF-EX fans are designed for air conveying in potentially explosive atmospheres.
The housing is made of galvanized steel or stainless steel and the impeller is made of die-cast aluminium.

Technical Data:

Type	Rotor diameter [[mm]	Min. air gap [mm]	Max. motor size	Max. speed [min^{-1}]
AXC-EX 315	315	2,0 – 4,0	71 - 90	3600
AXC-EX 355	355	2,0 – 4,0	71 - 90	3600
AXC-EX 400	400	2,0 – 4,0	80 - 100	3600
AXC-EX 450	450	2,5 – 4,5	80 - 112	3600
AXC-EX 500	500	2,5 – 4,5	80 - 132	3600
AXC-EX 560	560	3,0 – 5,0	80 - 160	3600
AXC-EX 630	630	3,5 – 5,5	80 - 180	3600
AXC-EX 710	710	4,0 – 6,0	80 - 180	3600
AXC-EX 800	800	4,0 – 6,0	90 - 180	3600
AXC-EX 900	900	4,5 – 6,5	100 - 200	1800
AXC-EX 1000	1000	5,0 – 7,0	100 - 200	1800
AXC-EX 1120	1120	6,0 – 8,0	112 - 250	1800
AXC-EX 1250	1250	6,5 – 8,5	132 - 280	1800
AXC-EX 1400	1400	7,0 – 9,0	160 - 315	1800
AXC-EX 1600	1600	8,0 – 10,0	160 - 315	1200
-	-	-	-	-
AXCBF-EX 250	250	2,0 – 4,0	71	3600
AXCBF-EX 315	315	2,0 – 4,0	71 - 80	3600
AXCBF-EX 400	400	2,0 – 4,0	71 - 90	3600
AXCBF-EX 450	450	2,5 – 4,5	71 - 90	3600
AXCBF-EX 500	500	2,5 – 4,5	71 - 100	3600
AXCBF-EX 630	630	3,5 – 5,5	71 - 100	3600
AXCBF-EX 800	800	4,0 – 6,0	71 - 112	3600

(16) Test report: 713194301

(17) Special conditions for safe use:

The device consists of electrical Ex equipment already certified according to ATEX 2014/34/EU. The correct integration, selection, installation and electrical connection has been assessed as part of this TÜV SÜD certification. The responsibility for conformity for these electrical Ex equipment remains with the original manufacturer of the electrical Ex equipment. The list of electrical Ex equipment is kept in the confidential file.

- Modification to this certified equipment are not permitted without verification of the Notified Body issued this Conformity statement based of equipment verification (TÜV SÜD Product Service GmbH - Germany).
- When selecting motors, special attention must be paid to the suitability of the category, ambient temperature, gas group and temperature class.
- The intended use as well as the instructions for the production and operation of the add-on parts, which are specified by the respective manufacturers, must be observed.
- The special conditions for the operation of the purchased equipment and components must be observed by the operator.
- The fan must be integrated into the local potential compensation. All conductive parts must be grounded or connected to conductive parts. The leakage resistance must be ≤ 10^6 Ω.
- The conductive connection between the individual parts must be ensured at all times and checked regularly.
- The explosion-protected drive motor to be installed on the fan must be secured as overload protection against rated current. The conditions set out in the relevant EU type-examination certificates must be observed and complied with.
- The electrical installation must be carried out in accordance with the requirements of the installation site, as described, for example, in EN 60079-14:2014. The cable must be permanently installed and protected from mechanical loads and environmental influences.
- The air duct system on the inlet side of the fan should be designed in such a way that at least protection class IP20 is guaranteed at the fan inlet. No foreign objects may enter the housing, which could be a potential source of ignition.
- The measurement of the gap between impeller and fixed housing parts must be measured 100%.

(18) Essential health and safety requirements:

met by standards