(1) Type Examination Certificate

Product Service

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

(3) Type Examination Certificate Number:

TPS 20 ATEX 085751 0007 X *Rev. 01*

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

(5) Manufacturer: Systemair GmbH

(6) Address: Seehöfer Strasse 45
97944 Boxberg

(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 equipments and protective systems intended for use in potentially explosive atmospheres, given in Annex VIII of the Directive 2014/34/EU. The examination and test results are recorded in the confidential report 713169058_1. This Certificate is valid until 2025-03-30.

(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**

(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 Type Examination Certificate 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 and supply of this equipment.

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

Ex II 2G Ex h IIB+H2 T3 Gb

Certification Body for Explosion Protection
Ridlerstrasse 65, 80339 München

München, 23.04.2020

Dipl.-Ing. Ulrich Jacobs

Product Service

(13) **Schedule**

(14) **Type Examination Certificate TPS 20 ATEX 085751 0007 X** ***Rev. 01***

(15) Description of Equipment:

The fans of the product group DV-EX are intended for the installation in ventilation systems. The radial impeller of the vertically blowing DV-EX roof fans has rear-curved impeller blades. Its housing is made of seawater-resistant aluminium. The base frame and a built-in bird protection mesh are made of powder-coated, galvanized steel sheet, the inflow nozzle is made of copper.

Technical data:

Type	Min. air gap [mm]	Voltage [V]	Max. Motor-size	Motor power [kW]	Max. speed [min^{-1}]
DV-EX 315	4-8	230 - 400	MK085	0,39	1800
DV-EX 355	4-8	230 - 400	MK106	0,5	1800
DV-EX 400	4-8	230 - 400	MK106	0,5	1500
DV-EX 450	4-8	230 - 400	MK106	0,92	1500
DV-EX 500	4-8	230 - 400	MK137	1,3	1500
DV-EX 560	4-8	230 - 400	MK137	1,5	1200
DV-EX 630	4-8	230 - 400	MK137	1,85	1200

(16) Test report: 713169058_1

(17) Special conditions for safe use

- All additional safety instructions of the manufacturer must be met.
- The fan must be integrated into the local potential equalisation. All conductive parts must be grounded or connected to conductive parts. The resistance must be 10^6 Ω. The conductive connection between the individual parts must be constantly ensured and regularly checked.
- The explosion-protected drive motor installed on the fan must be secured to rated current as over-load protection. The conditions set out in the respective EC type-examination certificates must be fulfilled.
- The connection cable must be firmly installed and protected from mechanical loads and environmental influences.
- The user is responsible for carry only substances that do not affect the material of the fan.
- For the protection against ingress of solid objects there must be a device available on the inlet of the fan with minimum protection IP20.

(18) Essential health and safety requirements:

Met by standards

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