ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

(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 19 ATEX 085751 0005 X** *Rev. 00*

(4) Equipment: Non-electrical equipment and components of group II, category 2 fan, type:
PRF-Ex 125D2-Ex d, PRF-Ex 160D2-Ex d, PRF-Ex 160D4-Ex d, PRF-Ex 180D2-Ex d, PRF-Ex 180D4-Ex d, PRF-Ex 200D2-Ex d, PRF-Ex 200D4-Ex d, PRF-Ex 250D2-Ex d, PRF-Ex 250D4-Ex d

(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 713148508. This Certificate is valid until 2024-06-05.

(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 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 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 IIC T4 Gb or Ex II 2G Ex h IIC T6 Gb**

Certification Body for Explosion Protection
Ridlerstrasse 65, 80339 München

München, 06.06.2019

Dipl.-Ing. Ulrich Jacobs



Certificates of Conformity without signature and hologramm shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by TÜV SÜD Product Service GmbH. In case of dispute, the German text shall prevail. This document is internally administrated under the following number: EX8A 085751 0005 Rev. 00



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ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT
TÜV SÜD

Product Service

(13) **Schedule**

(14) **Type Examination Certificate TPS 19 ATEX 085751 0005 X** *Rev. 00*

(15) Description of Equipment:

Fans of the product group PRF are compact, direct driven which can be inserted in the medical institutions, the foodstuffs, electrical or chemical industries and the metal industry. Conveyed medium can be highly corrosive gases, contaminated air or other aggressive components can be found in the waste air.

Technical data:

| | |
|---|---|
| Currency: | 230 / 400 V |
| Ambient temperature: | -20°C to +60°C |
| Max. density: | 1,2 kg/m³ |
| Temperature class: | T4 or T6 |

| Type | Motor-size | Motor power [kW] | Max. speed [min$^{-1}$] | Min. air gap [mm] | Weight [Kg] |
|---|---|---|---|---|---|
| PRF-EX 125D2-Ex d | 63 | 0,25 | 3000 | 2,0 | 20 |
| PRF-EX 160D2-Ex d | 80 | 0,75 | 3000 | 2,5 | 34 |
| PRF-EX 160D4-Ex d | 71 | 0,25 | 1500 | 2,5 | 26 |
| PRF-EX 180D2-Ex d | 80 | 1,1 | 3000 | 3,0 | 37 |
| PRF-EX 180D4-Ex d | 63 | 0,18 | 1500 | 3,0 | 24 |
| PRF-EX 200D2-Ex d | 90 | 1,5 | 2900 | 3,5 | 46 |
| PRF-EX 200D4-Ex d | 71 | 0,25 | 1500 | 3,5 | 30 |
| PRF-EX 250D2-Ex d | 112 | 4 | 3000 | 4,5 | 82 |
| PRF-EX 250D4-Ex d | 80 | 0,75 | 1500 | 4,5 | 49 |

(16) Test report: 713148508

(17) Special conditions for safe use

- For the protection against ingress of solid objects must be a device available on the inlet of the fan with the degree of protection of at least 20.
- Deviating from the standard the ambient temperature range is -20°C to +60°C.
- The pump may only be cleaned in a non-hazardous atmosphere.
- The impact has been tested with the lower degree of mechanical hazard. The operator must protect the fan against impact.
- All additional safety instructions of the manufacturer must be met.
- The temperature of the medium must not exceed +60°C

(18) Essential health and safety requirements:

Met by standards

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