



Product Service

(1) Type Examination Certificate

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



(3) EC Certificate of Conformity Number:

**TPS 17 ATEX 85751 004 X**

(4) Equipment: Non-electrical equipment and components of group II, category 2 fan, type: PRF 125D2-Ex; PRF 160D2-Ex, PRF 160D4-Ex, PRF 180D2-Ex, PRF 180D4-Ex, PRF 200D2-Ex, PRF 200D4-Ex, PRF 250D2-Ex, PRF 250D4-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 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 713097523.

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

**EN 13463-1:2009**

**EN 13463-5:2011**

**EN 14986:2007**

(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:

 **II 2G c IIC T4**

Office of certification of explosion protection

München, 25.09.2017

  
S. Willer





Product Service

(13) **S c h e d u l e**(14) **Type Examination Certificate TPS 17 ATEX 85751 004 X**(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:

Part. Nr.	Typ	Motor-größe	Motor-typ	Motor power [kW]	Currency [V]	Max. speed [min <sup>-1</sup> ]	Temp. class
34532	PRF-EX 125D2-Ex d	63	B5	0,25	230 / 400	3000	T4
34231	PRF-EX 160D2-Ex d	80	B5	0,75	230 / 400	3000	T4
33984	PRF-EX 160D4-Ex d	71	B14	0,25	230 / 400	1500	T4
34232	PRF-EX 180D2-Ex d	80	B5	1,1	230 / 400	3000	T4
33985	PRF-EX 180D4-Ex d	63	B14	0,18	230 / 400	1500	T4
34233	PRF-EX 200D2-Ex d	90	B5	1,5	230 / 400	2900	T4
33986	PRF-EX 200D4-Ex d	71	B14	0,25	230 / 400	1500	T4
34234	PRF-EX 250D2-Ex d	112	B5	4	230 / 400	3000	T4
33987	PRF-EX 250D4-Ex d	80	B5	0,75	230 / 400	1500	T4

Part. Nr.	Typ	Min. air gap [mm]	weight [Kg]	temperature. [C°]	max. density [kg/m <sup>3</sup> ]
34532	PRF-EX 125D2-Ex d	2,0	20	-20 bis +60	1,2
34231	PRF-EX 160D2-Ex d	2,5	34	-20 bis +60	1,2
33984	PRF-EX 160D4-Ex d	2,5	26	-20 bis +60	1,2
34232	PRF-EX 180D2-Ex d	3,0	37	-20 bis +60	1,2
33985	PRF-EX 180D4-Ex d	3,0	24	-20 bis +60	1,2
34233	PRF-EX 200D2-Ex d	3,5	46	-20 bis +60	1,2
33986	PRF-EX 200D4-Ex d	3,5	30	-20 bis +60	1,2
34234	PRF-EX 250D2-Ex d	4,5	82	-20 bis +60	1,2
33987	PRF-EX 250D4-Ex d	4,5	49	-20 bis +60	1,2

(16) Test report: 713097523(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.



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- (18) Essential health and safety requirements:  
met by standards

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München, 25.09.2017

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