(1) # Certificate of Conformity

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

(3) Certificate Number:

EPS 21 ATEX 2 152 X **Revision 0**

(4) Equipment: Roof radial fans type DVV Ex …, DVVI Ex …

(5) Manufacturer: Systemair d.o.o.

(6) Address: Špelina ul. 2
2000 Maribor
Slovenia

(7) This equipment and any acceptable variation thereto are specified in the schedule to this Certificate of Conformity and the documents 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 21TH0309.

(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**

EN 1127-1:2019 **EN 14986:2017**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subjected 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 and supply of this equipment.

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

Ex II 2G Ex h IIB+H2 T4 Gb

ZERTIFIZIERUNGSSTELLE BUREAU VERITAS 1828 Bureau Veritas CPS Germany GmbH

Certification department of explosion protection

H. Schaffer

Hamburg, 2021-08-09

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(13) # Annex

(14) **Certificate of Conformity EPS 21 ATEX 2 152 X** **Revision 0**

(15) Description of Equipment:

The roof radial fan, types DVV-Ex... and DVVI-Ex..., is intended for ventilation of explosive hazardous areas in industry. External parts and covers are made of aluminum sheet, supporting parts (base plate and motor holder) are made of steel sheet (alu-zinc, ZM coated or painted). Impeller of the fan consists of backplate and nozzle with welded blades. Impeller is directly fastened on the shaft of the electric motor. The inlet of the fan is covered with copper lining. The fan may be speed controlled with frequency converter.

The fan can be mounted on a base types FDG-Ex, FDGE-Ex, SSG-Ex and SSGE-Ex, sizes 560, 630 and 800-1000. The base is made of alu-zinc or ZM coated steel sheet with or without sound insulation.

Self-closing flap types VKG-Ex and VKGE-Ex, sizes 560, 630 and 800-1000, for preventing excessive air exchange when the fan does not operate, are intended for mounting on the inlet. The housing and flaps are made of ZM coated steel sheet. The axle is made of steel, the hinges from brass (CuZn37). The stoppers of the flap are covered with plastic pipe.

Under the fan, before fan inlet, the flexible connection type ASSV-Ex, sizes 560, 630 and 800-1000, can be mounted. Flexible connection limits the vibration transfer, compensate installation inaccuracies and prevent deformation of the fan base plate

Type key:

DVV-Ex 1000 D 6 - XL

- XL — Indication of the fan impeller
- 6 — Number of poles of the electric motor
- D — 3 phase electric motor
- 1000 — Size
- DVV-Ex — without sound insulation
- DVVI-Ex — with sound insulation

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Electrical data depending on the built-in motor (table of 50 Hz motors; at 60 Hz limited impeller speed):

DVV Ex DVVI Ex	Pole	Nominal power (kW)	Nominal current (A)	Starting current (A)
560-XS	4	1.1	2.4 / 2.42	11.5 / 17.5
	6	0.75	2.02 / 2.1	7.8 / 12
560-XM	4	1.5	3.23 / 3.4	17.7 / 24
	6	0.75	2.02 / 2.1	7.8 / 12
560-XL	4	2.2	4.51 / 4.7	21.6 / 36.1
	6	0.75	2.02 / 2.1	7.8 / 12
	8	0.37	1.25	3.8
630-XS	4	3	5.87 / 6.5	32.5 / 48.4
	6	1.1	2.84 / 3	12.3 / 15.3
	8	0.55	1.75	5.4
630-XM	4	4	7.66 / 8.3	50.6 / 63.6
	6	1.5	3.62 / 3.7	17.4 / 23.9
	8	0.75	2.3	8.1
630-XL	4	5.5	10.8	55.1 / 75.1
	6	2.2	5	30.5
	8	0.75	2.3	8.1
800-XS	6	3	6.6	37 / 41.6
	8	1.1	3.25	12.4
800-XM	6	4	8.8	55.4
	8	1.1	3.25	12.4
800-XL	6	5.5	11.8	72 / 74.3
	8	1.5	4.15	17.8
1000-XM	6	7.5	15.8	106
	8	4	10	48
1000-XL	6	11	21.87 / 23.5	130 / 141
	8	5.5	13.4	64.3
1000-XP	6	11	21.87 / 23.5	130 / 141
	8	4	10	48

(16) Reference number: 21TH0309

(17) Special conditions for safe use:

Allowed ambient temperature range T_{amb}:

- Types: DVV-Ex... and DVVI-Ex... the basic model for IIB+H2 T4
  $-20°C \leq T_{amb} \leq +40°C$

- Types: DVV-Ex... and DVVI-Ex... the model for extended ambient temperature range for IIB + H2 T4
  $-20°C \leq T_{amb} \leq +55°C$

- Types: DVV-Ex... and DVVI-Ex... the model for extended ambient temperature range for IIB + H2 T4
  $-40°C \leq T_{amb} \leq +40°C$

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(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection Hamburg, 2021-08-09

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