



(1) **Certificate of Conformity**

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – **UKSI 2016:1107 (as amended)**

(3) Certificate Number

**EPS 22 UKEX 2 337 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 annex to this Certificate of Conformity and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services United Kingdom Limited 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 Schedule 1 of UKSI 2016:1107 (as amended). 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**

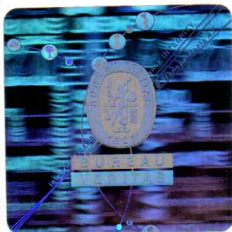
(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(11) This Certificate of Conformity relates only to the design and the construction of the specified equipment in accordance with UKSI 2016:1107 (as amended). Further requirements apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

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



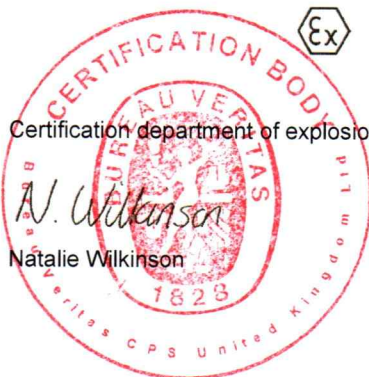
**II 2G Ex h IIB+H2 T4 Gb**



Certification department of explosion protection

Warrington, 06-10-2022

*N. Wilkinson*  
Natalie Wilkinson



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Bureau Veritas Consumer Products Services United Kingdom Limited  
<https://www.bureauveritas.co.uk/consumer-products-testing>  
+44 (0) 1925 854 360

Registered Office: 31 Kingsland Grange,  
Woolston, Warrington, Cheshire, WA1 4RW

Registered in England & Wales  
Company Number: 00852439

ZERT-0001-GBR-ZE-EX-V03 / TEMP-0005-GBR-ZE-EX-V01



(13)

## Annex

(14) **Certificate of Conformity EPS 22 UKEX 2 337 X**

**Revision 0**

(15) Description of Equipment:

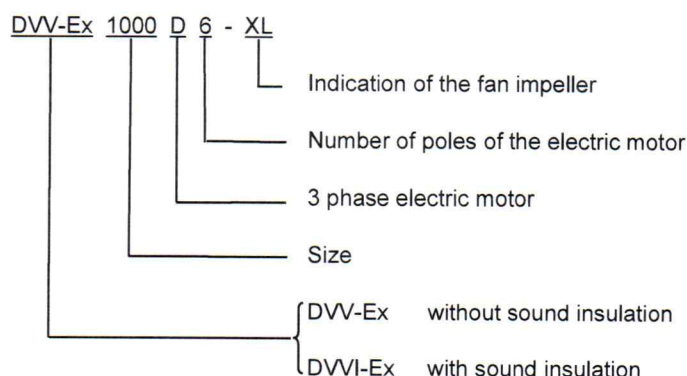
The roof radial fan, types DVV-Ex... and DVVI-Ex..., is intended for ventilation of explosive hazardous areas in industry. External parts and covers are made from aluminum sheet, supporting parts (base plate and motor holder) are made from steel sheet (alu-zinc, ZM coated or painted). Impeller of the 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 from 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 from ZM coated steel sheet. The axle is made from 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:



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**Certificate of Conformity EPS 22 UKEX 2 337 X****Revision 0**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

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**Certificate of Conformity EPS 22 UKEX 2 337 X**

**Revision 0**

(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  
 $-20\text{ }^{\circ}\text{C} \leq T_{amb} \leq +40\text{ }^{\circ}\text{C}$
- Types: DVV-Ex... and DVVI-Ex... the model for extended ambient temperature range for IIB+H2 T4  
 $-20\text{ }^{\circ}\text{C} \leq T_{amb} \leq +55\text{ }^{\circ}\text{C}$
- Types: DVV-Ex... and DVVI-Ex... the model for extended ambient temperature range for IIB+H2 T4  
 $-40\text{ }^{\circ}\text{C} \leq T_{amb} \leq +40\text{ }^{\circ}\text{C}$

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Warrington, 06-10-2022



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