



OBAC

Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.
44-121 Gliwice, ul. Łabędzka 21

(1) TYPE EXAMINATION CERTIFICATE

(2) Equipment, components and protective systems intended for use in potentially explosive atmospheres.
Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014.

(3) Type examination certificate No: **OBAC 19 ATEX 0322X, Issue 2**

(4) Product: **Radial fans type: EMT-....-... 2G/2D...**

(5) Manufacturer: **Venture Industries Sp. z o.o.**

(6) Address: **ul. Mokra 27, 05-092 Łomianki-Kielpin**

(7) This equipment, product or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) Ośrodek Badań, Atestacji i Certyfikacji OBAC Sp. z o.o. (The Institute for Research and Certification „OBAC” Sp. z o.o.) certifies that this equipment, component or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment, component or protective systems intended for use in potentially explosive atmospheres given in Annex II to the European Council Directive 2014/34/EU.

The examination and test results and the list of agreed technical documentation are recorded in the confidential Report no. OBAC/24/ATEX/0555.

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

PN-EN ISO 80079-36:2016-07
(EN ISO 80079-36:2016)




PN-EN ISO 80079-37:2016-07
(EN ISO 80079-37:2016)

PN-EN 14986:2024-09
(EN 14986:2024)

(10) If the sign „X” is placed after the certificate number, it indicates that the product concerned is subject to specific conditions of use specified in the schedule to this certificate.

(11) This certificate is valid from **20.12.2024** until **19.12.2029** and relates only to the design, assessment and tests of the specified equipment according to the Directive 2014/34/EU. The certificate does not apply to further requirements of the Directive relating to the manufacturing and placing on the market of this equipment.

(12) The marking of the equipment, component or protective system must include the following:

 II 2G **Ex h IIB+H₂ T3 Gb**
 II 2G **Ex h IIB+H₂ T4 Gb**
 II 2D **Ex h IIIC T125°C Db**



Head of Certification Body

Piotr Tarnawski M. Com.

Gliwice, 20 December 2024.



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(13)

(14)

SCHEDULE

to the Type Examination Certificate
No. OBAC 19 ATEX 0322X, Issue 2

(15) Ex Product description:

Radial fans type EMT are driven directly by a motor installed to the fan structure, located outside of the pressure area, with direct cooling on the motor shaft. The device constitutes a set of mechanical and electrical components with Ex designation. Depending on the model, the rotational speed of the fan is adjusted by changing the supply frequency.

The fans may use motors with temperature class adapted to the temperature class of the fan and with current certificates confirming the marking of the device of explosion-proof construction:

Ex marking of the fan	Ex marking of an electric motor
⊕ II 2G Ex h IIB+H ₂ T3 Gb	⊕ II 2G Ex eb IIC T6...T3 Gb
	⊕ II 2G Ex db IIC T6...T3 Gb
	⊕ II 2G Ex db eb IIC T6...T3 Gb
⊕ II 2G Ex h IIB+H ₂ T4 Gb	⊕ II 2G Ex eb IIC T6...T4 Gb
	⊕ II 2G Ex db IIC T6...T4 Gb
	⊕ II 2G Ex db eb IIC T6...T4 Gb
⊕ II 2D Ex h IIIC T125°C Db	⊕ II 2D Ex tb IIIC T85°C...T125°C Db

Marking:

EMT - a - b - cd e RS x y z VFD w

EMT - fan type

a - number of motor poles / rotation speed

2 – 3000 rpm

4 – 1500 rpm

6 – 1000 rpm

b - fan size

c - fan power ($P [W] / 10$)

d - number of phases (T - three-phase, S - single-phase)

e - ATEX category of the fan (2G, 2D, 2GD)

RS - version with rotation sensor

x - outlet position (LG... , RD...)

y - fan voltage (up to 690V)

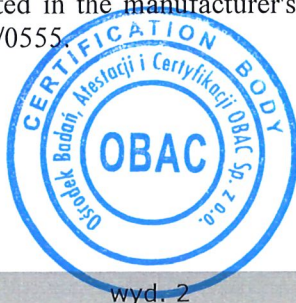
z - fan frequency (50Hz, 60Hz)

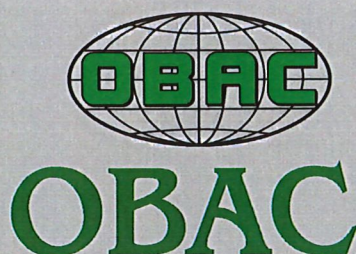
VFD - speed regulation with the inverter

w - motor efficiency class

Rated data:

The rating data of the fans are presented in the manufacturer's documentation listed in the confidential assessment report no. OBAC/24/ATEX/0555.





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No. OBAC 19 ATEX 0322X, Issue 2

(13)

(14)

(16) Report:
No. OBAC/24/ATEX/0555.

(17) Specific conditions of use:

- The fan structure in the installation point should be grounded in order to dissipate electrostatic charges.
- Electric motors of the fan should be protected from short-circuits and overloads in accordance with the requirements of the standard PN-EN 60204-1.
- The permissible ambient temperature range of the unit is from -50°C to +80°C or narrower according to the nameplate of the fan and electric motor, and the temperature of the medium at the fan inlet is from -20°C to +60°C.
- Fans of 2D category have to be equipped with a vibration monitoring system.
- The control system or the part of it that will be connected to the vibration monitoring system should comply with the “b1” ignition protection requirements in accordance with Section 6 of the standard PN-EN ISO 80079-37:2016-07 concerning the ignition sources monitoring system. The functional parameters of the ignition protection system are specified by the manufacturer of the fan.

(18) Essential health and safety requirements:

Met by compliance with the requirements mentioned in item 9.

(19) Certification history:

OBAC 19 ATEX 0322X, dated 20 December 2019.	Type examination certificate
Schedule no. 1 to the certificate no. OBAC 19 ATEX 0322X, dated 25 October 2021.	Extension for fan versions equipped with an inductive rotation sensor.
Schedule no. 2 to the certificate no. OBAC 19 ATEX 0322X, dated 23 January 2024.	Extension of the number of motor types used in fans additional cover seals.
OBAC 19 ATEX 0322X, Issue 2 dated 20 December 2024.	Update documentation and adapt to current standards.

