



# OBAC

**Osrodek 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 23 ATEX 0236X, Issue 0**
- (4) Product: **Roof radial fan of REX type**
- (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) Osrodek Badań, Atestacji i Certyfikacji OBAC Sp. z o.o. (The Institute for Research and Certification „OBAC” Ltd) 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/23/ATEX/0236.
- (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 14986:2017-02**  
(EN 14986:2017)

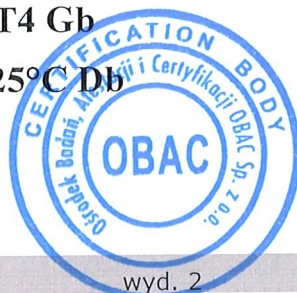
- (10) If the sign „X” is placed after the certificate number, it indicates that the product concerned is subject to specific conditions of use specified in the schedule to this certificate.
- (11) This certificate is valid from **21.06.2023** until **20.06.2028** and relates only to the design, assessment 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 manufacture 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+H<sub>2</sub> T3 Gb**

 **II 2G Ex h IIB+H<sub>2</sub> T4 Gb**

 **II 2D Ex h IIC T125°C Db**



**Head of Certification Body**

  
**Piotr Tarnawski M. Com.**

Gliwice, 21 June 2023.



# OBAC

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

(13)

## SCHEDULE

(14)

**to the Type Examination Certificate**  
**No. OBAC 23 ATEX 0236X, Issue 0**

### Designation:

Designation of the roof radial fan of REX type:

REX - a / b - c - de, f, x, y, z,

where the letters stand for:

REX – fan type

a – type of discharge (H - horizontal, V - vertical)

b – number of motor poles and number of gears / speed

c – fan size - nominal diameter of impeller

d – motor power (  $P [W] / 10$  )

e – number of supply phases (T - three-phase, S - single-phase)

f – equipment category according to ATEX directive (e.g. 2G, 2D, 2GD)

x – supply voltage (up to 690V)

y – supply frequency

z – VFD - variable frequency drive

(16) Report:

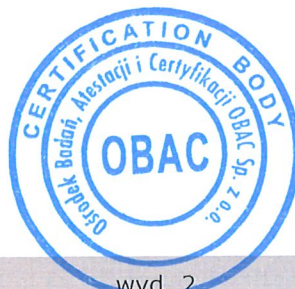
– OBAC/23/ATEX/0236.

(17) Specific conditions of use:

- The fan structure at the installation point should be earthed to ensure electrostatic discharge.
- The fan's electric motors must be protected against short-circuits and overloads in accordance with the requirements of EN 60204-1.
- The permissible ambient temperature range for the unit and the medium at the fan inlet is  $-20^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  or narrower according to the fan nameplate and the temperature class of the electric motor used..
- It is mandatory to equip category 2D fans with a vibration monitoring system.
- The control system or that part of it to which the vibration sensor will be connected must meet the requirements of ignition prevention type "b1" in accordance with chapter 6 of EN ISO 80079-37:2016-07 concerning the ignition source monitoring system. The performance parameters for the implementation of the ignition prevention system are specified by the fan manufacturer.

(18) Essential health and safety requirements:

Met by compliance with the requirements mentioned in item 9.





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**44-121 Gliwice, ul. Łabędzka 21**

(13)

## SCHEDULE

(14)

**to the Type Examination Certificate  
No. OBAC 23 ATEX 0236X, Issue 0**

### Designation:

Designation of the roof radial fan of REX type:

REX - a / b - c - de, f, x, y, z,

where the letters stand for:

REX – fan type

a – type of discharge (H - horizontal, V - vertical)

b – number of motor poles and number of gears / speed

c – fan size - nominal diameter of impeller

d – motor power (  $P [W] / 10$  )

e – number of supply phases (T - three-phase, S - single-phase)

f – equipment category according to ATEX directive (e.g. 2G, 2D, 2GD)

x – supply voltage (up to 690V)

y – supply frequency

z – VFD - variable frequency drive

(16) Report:

– OBAC/23/ATEX/0236.

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(18) Essential health and safety requirements:

Met by compliance with the requirements mentioned in item 9.





# OBAC

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**44-121 Gliwice, ul. Łabędzka 21**

(1)

## Schedule No. 1

to

## the certificate No. OBAC 23 ATEX 0236X

(2) Equipment, products 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) Product: **Roof radial fan of REX type**

(4) Manufacturer: Venture Industries Sp. z o.o.

(5) Address: ul. Mokra 27, 05-092 Łomianki-Kiełpin

(6) 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 14986:2017-02**  
(EN 14986:2017)

(7) Description of changes :

The change concerns extension of the number of types of electric motors used in fans and the update of their certificates, resulting from the introduction of the requirements of Commission Regulation (EU) 2019/1781 of October 1, 2019. The Ex marking of these motors does not change or is updated, and the new motors differ only in their efficiency class. Motors with the current IE1 efficiency class can still be used in fans. Changing to a motor with a different efficiency class takes place without interfering with the fan's structure and does not affect the risk of fan ignition.

In the REX series of fans, electric motors with a temperature class adapted to the temperature class of the fans are approved for use, and have the following certificates:

JSHP 23 ATEX 0005X	OBAC 14 ATEX 0047X	CESI 03 ATEX 280X	CNEX 17 ATEX 0004X
KDB 21 ATEX 0030X	OBAC 14 ATEX 0048X	CESI 05 ATEX 110X	BVS 14 ATEX E 082
KDB 21 ATEX 0035X	OBAC 15 ATEX 0114X	LCIE 19 ATEX 3027X	PTB 12 ATEX 3018
KDB 21 ATEX 0024X	OBAC 16 ATEX 0118X	LCIE 19 ATEX 3028X	FTZU 15 ATEX 0083
KDB 21 ATEX 0016X	TÜV IT 14 ATEX 050X	LCIE 19 ATEX 3029X	DMT 01 ATEX E 014X
KDB 20 ATEX 0042X	TUV IT 14 ATEX 065X	LCIE 19 ATEX 3030X	INERIS 17 ATEX 0001X
KDB 21 ATEX 0013X	CESI 13 ATEX 008X	LCIE 19 ATEX 3031X	INERIS 22 ATEX 0025X
EPT 17 ATEX 2588X	CESI 13 ATEX 007X	DEMKO 20 ATEX 2248X	EESF 23 ATEX 005X
EPT 19 ATEX 3409X			



**Head of Certification Body**

**Piotr Tarnawski M. Com.**

Gliwice, 23 January 2024.



# OBAC

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

(1) **Schedule No. 1**  
**to**  
**the certificate No. OBAC 23 ATEX 0236X**

For the REX 220 fan model an additional variant of a motor with the IE2 efficiency class was introduced, which resulted in an increase in rotational speed and forced an increase in motor power from 0.12 kW to 0.18 kW. At the same time, the gaps and minimum distances have not changed, and therefore there is no change in the risk of fan ignition.

**Rated data:**

The rated data of the fans is presented in the manufacturer's documentation specified in the assessment report no. OBAC/23/ATEX/0512/4.

- (8) Explosion proof design is confirmed in the confidential product assessment report:  
OBAC/23/ATEX/0512/4.  
The introduced changes meet the requirements for equipment of group II category 2G or 2D.

The explosion-proof product marking, depending on the used electric motor and gas or dust explosion atmosphere, may be as follows:

**II 2G Ex h IIB+H<sub>2</sub> T3 Gb**  
 **II 2G Ex h IIB+H<sub>2</sub> T4 Gb**  
 **II 2D Ex h IIC T125°C Db**

- (9) Specific conditions of use:  
– No change compared to certificate no. OBAC 23 ATEX 0236X.
- (10) Technical documentation:  
The technical documentation is specified in the confidential report no: OBAC/23/ATEX/0512/4.

This Annex to the Certificate is applicable in the period from **23.01.2024** until **20.06.2028** and concerns solely the specimen of the product having identical characteristics (parameters) to the specimen supplied for the assessment and compliant with the requirements specified in item 6 hereof.

