

1. **TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in Potentially explosive atmospheres
Directive 2014/34/EU**
3. Type Examination Certificate Number: **EESF 20 ATEX 006X**
4. Product: **Fan**
Certified types: **RFTX 140A, RFTX 140C, RFTX 160A, RFTX 160C, RFTX 200A, RFTX 200B, RFTX 200C,
RFEX 140C and RFEX 160C**
5. Manufacturer: **H. ÖSTBERG AB**
6. Address: **Industrigatan 2, SE-77435 Avesta, SWEDEN**
7. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
8. Eurofins Expert Services Oy, Certification Body No. S017 accredited by the Finnish Accreditation Service (FINAS), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive 2014/34/EU of February 2014.

The examination and test results are recorded in confidential report No. EUFI29-19005540-T2.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 14986 (2017) EN ISO IEC 80079-36 (2016)
10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
11. This Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
12. The marking of the product shall include the following:



II 2 G Ex h IIB+H2 T3 Gb

Espoo, 31.1.2020
Eurofins Expert Services Oy

Kari Koskela
Expert

Riku Vuorinen
Business Development Manager

This document is digitally signed.



13. **Schedule**

14. **Type Examination Certificate EESF 20 ATEX 006X**

15. **Description of Product**

The RFTX and RFEX fans are equipped with non-sparking inlet cone and it is made from copper the enclosure is galvanic sheet-iron. The fans consist of housing, a fan wheel and a certified induction motor with a junction box. The fan wheels are made of hot dip galvanized low carbon steel and the fans are designed for installation in duct systems, which are intended to fulfil the required degree of ingress protection.

The motors are certified according to IBExU02ATEX1109, IBExU02ATEX1110 and TÜV IT 13 ATEX 039 X. The terminal boxes on the VEM motors are supplied with a certified cable gland M25 x 1,5 according to certificate DMT 99 E 016. The terminal boxes on the RAEL motors are supplied with a certified cable gland M20 x 1,5 according to certificate IMQ 13 ATEX 010X.

Data

Type of duty S1 (continuous duty)

Supply voltage RFTX: 400 V AC, 50 Hz

RFEX: 230 V AC, 50 Hz and 60 Hz

Table

| Fan type | Art.no | Motor type | Rated voltage (V) | Speed (rpm) | Rated current (A) | Rated power (W) |
|------------|---------|------------|-------------------|-------------|-------------------|-----------------|
| RFTX 140 A | 7730001 | KPR 56 G4 | 400 | 1300 | 0,52 | 110 |
| RFTX 140 C | 7730002 | KPR 56 K2 | 400 | 2810 | 0,53 | 300 |
| RFTX 160 A | 7730004 | KPR 56 G4 | 400 | 1300 | 0,53 | 143 |
| RFTX 160 C | 7730003 | KPR 63 K2 | 400 | 2740 | 0,97 | 590 |
| RFTX 200 A | 7730005 | KPR 56 G4 | 400 | 1300 | 0,60 | 270 |
| RFTX 200 B | 7730006 | KPR 63 K4 | 400 | 1380 | 0,79 | 388 |
| RFTX 200 C | 7730007 | KPR 63 K4 | 400 | 1380 | 0,79 | 385 |
| RFEX 140 C | 7730040 | RL M63B4 | 230 | 1460 (1740) | 1,24 (0,87) | 169 (185) |
| RFEX 160 C | 7730041 | RL M63B4 | 230 | 1440 (1690) | 1,31 (1,05) | 193 (226) |

16. **Report Number**

EUF129-19005540-T2

17. **Specific Conditions of Use**

External sources of heating or cooling shall be considered so that the ambient temperature is kept in the range -20 ... +40 °C.

When the fans are installed in a duct system the degree of protection IP 20 at the inlet side and IP 10 at the outlet side shall be fulfilled for the duct system. Parts that contribute to this protection shall have a suitable design with respect to strength and material.

The rated current and power on the marking plate of the fan must not be exceeded.

18. **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed at item 9.

19. **Drawings and Documents**

Drawings and documents are listed in the confidential report.

20. **Certificate History**

| Issue | Date | Report No. | Change |
|-------|-----------|------------|---|
| - | 31.1.2020 | | New version from the certificate VTT 16 ATEX 045X |
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