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EU-Type Examination Certificate(2) **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres****Directive 2014/34/EU**(3) EU – Type Examination Certificate Number: **IEP 21 ATEX 1000X**(4) Equipment: **AXX types, Axial Fans**(5) Manufacturer: **VİTLO HAVALANDIRMA VE İKLİMLENDİRME SAN. A.Ş.**(6) Address: **SS. Geri Kazanımcılar Sit. 6016/8 Sk. N.10/1 Egemenlik Mh. Bornova-İZMİR/ TURKEY**

(7) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Şti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, 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. The examination and test results are recorded in confidential Report Nr: IEP.Rp.Ex.10-2045 date 04.10.2021.

(9) Compliance with Essential Health and safety requirements has been assured by compliance with;

EN 14986:2017, EN ISO 80079-36:2016, EN IEC 60079-0:2018

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

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. 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 equipment or protective system shall include the following:

**II 2G Ex db or eb IIB/IIC T3...T6 Gb / II 2D Ex tb IIC T125°C Db
II 2G Ex h IIB/IIC T3...T6 Gb / II 2D Ex h IIC T125°C Db****Responsible Person:**Nurettin Terzioglu
Head of Certification Body**Date of Issue: 12.10.2021**



(13) Schedule and Certificate Nr: **IEP 21 ATEX 1000X**

(14) Description of Equipment:

AXX type axial fans consist of AXD duct type, AXH cell type, AXB bifurcated type, AXW wall type, AXR roof type. The fans consist of a fan wheel ATEX certified induction motor and a junction box (Ex-d/e - Zone 1 or Zone 21). Axial fan mechanical and electrical parts list is form 2.3 and date 27.09.2021. Axial Fans are used as external zone 1, 21 or zone 2, 22 and interior zone 1,21 that be used danger area determined in the EN 60079-10-1/2 standard. Information's of assembled working of Axial Fans with order-related equipment exists in the instruction manual with 7 pages and date 09.2021.

Technical Parameters:

Type	Capacity		Motor Power		Motor Speed (rpm)	Hub Size Min (mm)	Hub Size Max (mm)
	Min (m ³ /h)	Max (m ³ /h)	Kw(min)	Kw (Max)			
AXD	1.000	130.000	0,12	45	750-1000- 1450-3000	355	1250
AXH	1.000	130.000	0,12	45		355	1250
AXB	5.000	125.000	0,55	45		450	1250
AXW	1.000	70.000	0,12	11		355	1000
AXR	1.000	125.000	0,12	45		355	1250
Air / Gas Transition Max 80°C							
Ambient Temperature Max (-20 ~ +50 °C)							

(15) List of Documentation;

- Risk analysis report, 27.09.2021
- User and service manual, 09.2021
- Drawings;

Drawings No	Date	Drawings No	Date
TR-A-001	10.08.2021	MZBD-001	26.09.2021
KG-E-001	10.08.2021	FDC/2109	27.09.2021
AAK-0928	28.09.2021	ATS-0928	28.09.2021
APD-0927	26.09.2021		

(16) Essential Health and Safety Requirements:

This certificate is in the contents of standards that mentioned in item [9] It has been accepted that axial fans are manufactured according to the producer instructions and the standards mentioned above.

(17) Special conditions for safe use;

The fan must be integrated into the local potential equalization. All conductive parts must be grounded or connected to conductive parts. The resistance must be $10^6 \Omega$. The conductive connection between the individual parts must be constantly ensured and regularly checked.

The explosion-protected drive motor installed on the fan must be secured to rated current as overload protection. The conditions set out in the respective EC type-examination certificates must be fulfilled.

The connection cable must be firmly installed and protected from mechanical loads and environmental influences.

For the protection against ingress of solid objects there must be a device available on the inlet of the fan with minimum protection IP20.

IEP 21 ATEX 1000X: It should be assembled according to the user manual. Periodic checks should be carried out by authorized personnel.

For the validity of analysis type certificate, the parts that are used in axial fans is determined in confirmed the list of equipment's part 2.3 and date 27.09.2021.

Responsible Person :

Nurettin Terzioglu
Head of Certification Body

Date of Issue: 12.10.2021

