IEP | ENERGY PETROLEUM INSTITUTE

IEP ATEX

(1) **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 19 ATEX 0741**

(4) Equipment: **VD-EX xxx Type Axial Fans**

(5) Manufacturer: **VENCO Havalandırma Yedek Parça Makine Sanayi ve Ticaret A.Ş.**

(6) Address: **2004 Cadde No: 5 T.O.S.B Turgutlu / MANİSA – 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.10-1573 date 22.11.2019.

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

EN 14986 : 2017 , EN 60079-0 : 2013 , EN ISO 80079-36:2016

(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:

Ex

II 2G Ex db eb IIC T3 ~ T5 Gb
II 2G Ex h IIC T3 ~ T5 Gb
II 2D Ex tb IIIC T 125 ^{0}C Db

Responsible Person:

Nurettin Terzioglu
Head of Certification Body

ENERGY PETROLEUM INSTITUTE IEP ATEX NB 2284 INSPECTION AND CERTIFICATION

Date of Issue: 28.11.2019

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(13) Schedule

(14) Certificate Nr: **IEP 19 ATEX 0741**

(15) Description of Equipment:

VD-EX type axial fans are single inlet. Fans used for ventilation purposes. This device the electrical axial fans. These devices are used for IIC gas group explosive atmospheres.

Axial fan mechanical and electrical parts list is produced exploded picture and part list 3 date 11.11.2019. The body and impellers are made of aluminum. There does not spark material between the housing and the impeller.

Axial Fans are used as zone 1 and zone 2 that be used danger area determined in the EN 60079-10-1 standard.

Information's of assembled working of Axial Fans with order related equipment's exist in instruction manual with 8 pages and date 01.10.2019

Product coding

VD-EX-A
- A → Fan diameter
- EX → Exproof fan code
- VD → Wall mounted axial fan

VD-EX xxx Type Axial Fans Technical Parameters:

Type	Capacity		Motor Power	Motor Speed	Fan Diameter
Model	**Min (m^3/h)**	**Max (m^3/h)**	**kW**	**(rpm)**	**(mm)**
VD-EX-315	1100	1500	0,18	1500	315
VD-EX-355	1900	3100	0,18		355
VD-EX-400	3386	4225	0,25		400
VD-EX-450	4996	7311	0,37		450
VD-EX-500	6221	8932	0,55		500
VD-EX-560	9268	12420	0,75		560
VD-EX-630	8773	18062	1,5		630
VD-EX-710	14200	21040	1,5		710
Air / Gas Transition Max 80 °C					
Ambient Temperature Max (-20 ~ +40 °C)					

(16) Special conditions for safe use;
The installation and the operation of the axial fans has to confirm to the relevant national regulations.

Responsible Person :

Nurettin Terzioglu
Head of Certification Body

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(17) Certificate Nr: **IEP 19 ATEX 0741**

(18) Essential Health and Safety Requirements;

18.1 Are included in standards, which are mentioned in clause (9) of this certificate. The products were approved in accordance with above mentioned standards and manufacturer's instruction.

18.2 At the installation and the operation of the axial fans has to be observed manufacturer's manual 8 pages dated 01.10.2019.

(19) List of Documentation:

- Axial fans user manual : 8 pages, dated 01.10.2019
- Component Lists : Part 3 dated 11.11.2019
- Mounting Pictures and Technical Drawings : Part 4
- Certificates and Test Reports : Part 5
- Drawings;

Drawing Nr	Drawing Name	Date
VD-EX-01	General Drawing	15.10.2019
VD-EX-02	Exploded Picture	15.10.2019
VD-EX-03	Part Drawing – Montage plate	15.10.2019
VD-EX-04	Part Drawing – Connection part I	17.10.2019
VD-EX-05	Part Drawing – Connection part II	17.10.2019
VD-EX-06	Body part	15.10.2019
VD-EX-07	Wire mesh	15.10.2019
VD-EX-08	Hub	15.10.2019
VD-EX-09	Connection Details – I	15.10.2019
VD-EX-010	Connection Details – II	16.08.2019
VD-EX-011	V1 Hub	15.10.2019
VD-EX-012	Connection Details – III	15.10.2019
VD-EX-013	Connection Details – IV	15.10.2019
VD-EX-010	Connection Details – Hub	16.08.2019
Section 2.6	Electrical – Mechanical Connection Shame	15.10.2019
Section 2.7	Label	15.10.2019
Section 2.8	Grounding Connection	15.10.2019

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 3 and date 11.11.2019.

Responsible Person :

Nurettin Terzioglu
Head of Certification Body

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Date of Issue : 28.11.2019