

(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 23 ATEX 1303X**

(4) Equipment : **MC , MKE and MR types, Radial Fans**

(5) Manufacturer : **MULTIVENT HAVALANDIRMA SİSTEMLERİ LİMİTED ŞİRKETİ**

(6) Address : **ÜÇEVLER MAH. İZMİR YOLU CAD. WEST POINT BLOK NO:241D
İÇ KAPI NO: 2 Nilüfer - BURSA / TÜRKİYE**

(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.10-2643 date 26.10.2023.

(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 Terzioğlu
Head of Certification Body



Date of Issue: 27.10.2023





IEP ENERGY PETROLEUM INSTITUTE

(13) Schedule and Certificate Nr: **IEP 23 ATEX 1303X**

(14) Description of Equipment: MC type radial fans consist of DD-Ex direct connection type, BD-Ex Belt Pulley driven type, LP-Ex (low) / MP-Ex (medium) / HP-Ex (high) pressure type. MR type radial fans consist of RF-Ex horizontal roof fan type and RFV-Ex vertical roof fans type. MKE Type centrifugal fans consist of C-Ex duct type chamber, CE-Ex duct type chamber and EP-Ex duct type economical plus type. The fans consist of an ATEX-certified fan wheel and a junction box (Ex-d/e - Zone 1 or Zone 21). The radial fan mechanical and electrical parts list is form 1.2.3 and is dated 04.06.2023. Radial fans are used as external zone 1, 21 or zone 2, 22 and inner zone 1,21, which will be used as the danger area determined in the EN 60079-10-1/2 standard. Information regarding the assembled operation of radial fans with the equipment belonging to the order is available in the user manual dated 12.10.2023 / KE-001.

Technical Parameters:

Type	Capacity		Motor Power		Motor Speed	Hub Size Min	Hub Size Max
Model	Min (m ³ /h)	Max (m ³ /h)	kW(min)	kW (Max)	(rpm)	(mm)	(mm)
MC-DD-2K-Ex	850	2.700	0,25	45	2.900	696	1821
MC-DD-4K-Ex	2.000	60.000	0,25	30	1450	696	1821
MC-BD-Ex	2.000	60.000	0.25	30	1450	628	1326
MC-LP-Ex	2.000	18.000	0,37	7,5	1450	577	1240
MC-MP-Ex	1.000	5.500	0,37	11	2.800	577	1240
MC-HP-Ex	350	1.700	0,37	11	2.800	577	1240
MKE-C-Ex	2.200	58.000	0,37	30	1450	765	1140
MKE-CE-Ex	3.200	20.000	0,75	7,5	1450	870	1070
MKE-EP-Ex	3.200	20.000	0,75	7,5	1450	650	1100
MR-RF-Ex	1.250	22.000	0.25	11	1450	454	780
MR-RFV-Ex	2.200	22.000	0,37	11	1450	500	1350

Air / Gas Transition Max 80°C , Ambient Temperature Max (-20 ~ +50 °C)

(15) List of Documentation;

- Risk analysis report, 17/08/2023
- User and service manual, date 12.10.2023 / Document Nr. KE-001
- Drawings;

Drawings Nr;	Date;	Drawings Nr;	Date;	Drawings Nr;	Date;
MC-DD-Ex	06.09.2023	MC-HP-Ex	06.09.2023	MR-RF-Ex	06.09.2023
MC-BD-Ex	06.09.2023	MKE-C-Ex	06.09.2023	MKE-EP-Ex	06.09.2023
MC-LP-Ex	06.09.2023	MKE-CE-Ex	06.09.2023	MR-RFV-Ex	06.09.2023
MC-MP-Ex	06.09.2023				

(16) Essential Health and Safety Requirements: This certificate is in the contents of standards that mentioned in item [9] It has been accepted that radial 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 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 23 ATEX 1303X : 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 radial fans is determined in confirmed the list of equipment's part 1.2.3 and is dated 04.06.2023.

Responsible Person :

Nurettin Terzioğlu
Head of Certification Body

Date of Issue: 27.10.2023

