

(1) **EC-TYPE EXAMINATION CERTIFICATE**

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) EC-Type Examination Certificate Number: **KEMA 08ATEX0121** Issue Number: 1

(4) Equipment: **Fans Types EMT-03, EMT-25, EMT-50, EMT-90, EMT-160 and EMT-290**

(5) Manufacturer: **Venture Industries Sp. z o.o**

(6) Address: **Ul. Mokra 27, 05-092 Lomianki-Kielpin, Poland**

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

(8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential test report number 211598700.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 14986 : 2007**

**EN 13463-1 : 2001**

**EN 13463-5 : 2003**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.


(12) The marking of the equipment shall include the following:



**II 2 G Ex c e IIC T3 or Ex c d e IIC T4 or Ex c d IIC T4 or**

**II 2 D Ex c tD A21 IP6X T100 °C to T140 °C**

This certificate is issued on March 16, 2009 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

KEMA Quality B.V.  
  
C.G. van Es  
Certification Manager



(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 08ATEX0121** Issue No. 1

(15) **Description**

Fans Types EMT-03, EMT-25, EMT-50, EMT-90, EMT-160 and EMT-290 are die-cast aluminium fans driven by a certified three-phase motor mounted on a frame and intended for fixed installation.

The mechanical part of the Fans is protected by type of protection "c". The electrical part of the Fans is protected by type of protection "e", "d e", "d" or "tD". The type of protection, the temperature class and the Gas or Dust application are dependent on the selected type of electric motor.

An overview of the Fan-Motor combinations with applicable marking is given in document: EMT/08/U/2008/RM-possible motors, dated January 27, 2009.

Ambient temperature range -20 °C to +40 °C.  
Conveyed medium temperature range -20 °C to +60 °C.

**Electrical data**

The electrical data for each fan type must be taken from the EC-Type Examination Certificate and the installation instruction of the motor used.

**Installation instructions**

The instructions of the manufacturer must be followed in detail to assure proper and safe operation of the equipment.

(16) **Test Report**

KEMA No. 211598700.

(17) **Special conditions for safe use**

None.

(18) **Essential Health and Safety Requirements**

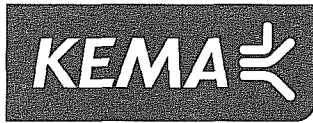
Covered by the standards listed at (9).

In addition compliance of the individual parts is assured by compliance with the standards:

EN 50014 : 1997 + A1, A2	EN 50018 : 2000	EN 50019 : 2000
EN 50281-1-1 : 1998 + A1	EN 60079-0 : 2006	EN 60079-7 : 2007
EN 61241-0 : 2006	EN 61241-1 : 2004	

(19) **Test documentation**

As listed in Test Report No. 211598700.



**Test Report No. 211598700**

**Fans Types EMT-03, EMT-25, EMT-50, EMT-90, EMT-160 and EMT-290**

Laboratory: **KEMA QUALITY B.V.**  
**Utrechtseweg 310**  
**6812 AR Arnhem**  
**The Netherlands**

By order of: **Venture Industries Sp. z o.o**  
**UL. Mokra 27**  
**05-092 Lomianki Kielpin**  
**Poland**

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Author : H.J. Sijrier      2009-03-03      Reviewer : L.G. van Schie      2009-03-03  
KEMA project no. : 211598700

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This Test Report contains the test results related to the sample(s) tested. The tests results cannot be used for any statement related to the quality of the equipment from running production.

## 1 KEMA project no. 211598700:

### 1.1 Standards applied

Samples of the equipment as described under (1.2) below were subjected to the requirements and tests of the following standards:

EN 14986 : 2007	EN 13463-1 : 2001	EN 13463-5 : 2003
EN 50014 : 1997 + A1, A2	EN 50018 : 2000	EN 50019 : 2000
EN 50281-1-1 : 1998 + A1	EN 60079-0 : 2006	EN 60079-7 : 2007
EN 61241-0 : 2006	EN 61241-1 : 2004	

The assessment was conducted from April 2008 to March 2009.

### 1.2 Description of the equipment

Fans Types EMT-03, EMT-25, EMT-50, EMT-90, EMT-160 and EMT-290 are die-cast aluminium fans driven by a certified three-phase motor mounted on a frame and intended for fixed installation.

The mechanical part of the Fans is protected by type of protection "c". The electrical part of the Fans is protected by type of protection "e", "d e", "d" or "tD". The type of protection, the temperature class and the Gas or Dust application are dependent on the selected type of electric motor.

An overview of the Fan-Motor combinations with applicable marking is given in document: EMT/08/U/2008/RM-possible motors, dated January 27, 2009.

Ambient temperature range -20 °C to +40 °C.

Conveyed medium temperature range -20 °C to +60 °C.

### 1.3 Marking of the equipment



II 2 G Ex c e IIC T3 or Ex c d e IIC T4 or Ex c d IIC T4 or

II 2 D Ex c tD A21 IP 6X T100 °C to T140 °C

### 1.4 Test documentation

EC-Type Examination Certificate	KEMA 02ATEX2136
	KEMA 02ATEX2140
	KEMA 03ATEX2176
	KEMA 03ATEX2178
	KEMA 03ATEX2180
	DMT 01ATEX E 014 X
	PTB 01ATEX1093

dated

Drawing list:	EMT/08/U/2008/RM / EMT-03 II 2G Ex c e IIC T3	2009.01.27
	EMT/08/U/2008/RM / EMT-25 II 2G Ex c e IIC T3	2009.01.27

EMT/08/U/2008/RM / EMT-50 II 2G Ex c e IIC T3	2009.01.27
EMT/08/U/2008/RM / EMT-90 II 2G Ex c e IIC T3	2009.01.27
EMT/08/U/2008/RM / EMT-160 II 2G Ex c e IIC T3	2009.01.27
EMT/08/U/2008/RM / EMT-290 II 2G Ex c e IIC T3	2009.01.27
EMT/08/U/2008/RM / EMT-03 II 2G Ex c d IIC T4	2009.01.27
EMT/08/U/2008/RM / EMT-25 II 2G Ex c d IIC T4	2009.01.27
EMT/08/U/2008/RM / EMT-50 II 2G Ex c d IIC T4	2009.01.27
EMT/08/U/2008/RM / EMT-90 II 2G Ex c d IIC T4	2009.01.27
EMT/08/U/2008/RM / EMT-160 II 2G Ex c d IIC T4	2009.01.27
EMT/08/U/2008/RM / EMT-290 II 2G Ex c d IIC T4	2009.01.27
EMT/08/U/2008/RM / EMT-03 II 2G Ex c d e IIC T4	2009.01.27
EMT/08/U/2008/RM / EMT-25 II 2G Ex c d e IIC T4	2009.01.27
EMT/08/U/2008/RM / EMT-50 II 2G Ex c d e IIC T4	2009.01.27
EMT/08/U/2008/RM / EMT-90 II 2G Ex c d e IIC T4	2009.01.27
EMT/08/U/2008/RM / EMT-160 II 2G Ex c d e IIC T4	2009.01.27
EMT/08/U/2008/RM / EMT-290 II 2G Ex c d e IIC T4	2009.01.27
EMT/08/U/2008/RM / EMT-03 II 2 D	2009.01.27
EMT/08/U/2008/RM / EMT-25 II 2 D	2009.01.27
EMT/08/U/2008/RM / EMT-50 II 2 D	2009.01.27
EMT/08/U/2008/RM / EMT-90 II 2 D	2009.01.27
EMT/08/U/2008/RM / EMT-160 II 2 D	2009.01.27
EMT/08/U/2008/RM / EMT-290 II 2 D	2009.01.27

Document:	EMT/08/U/2008/RM-possible motors	2009.01.27
	EMT/08/U/2008/RM-clearances	2009.01.27

## 2 Instructions for installation and use

The manual provided with the equipment shall be followed in detail to assure safe operation.

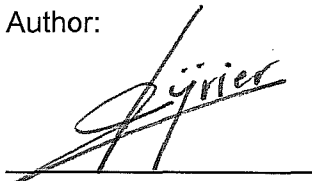
## 3 Test results

The detailed test results are laid down in confidential file no. 211598700. There were no deviations from, additions to or exclusions from the applicable test methods as described in the standards mentioned under 1.1 above. Where applicable, the estimated uncertainty of measurement meets the requirements of IECEx Operational Document OD012.

## 4 Conclusion

The equipment as described under 1.2 above met all applicable requirements of the standards as mentioned under 1.1 above. Certification of the equipment is therefore recommended.

Author:



H.J. Sijrier

Reviewer:



L.G. van Schie

**END OF TEST REPORT**