



TYPE EXAMINATION STATEMENT CATEGORY 2 EQUIPMENT

Equipment intended for use in potentially explosive atmospheres - ATEX

[3] Type Examination Statement Number: **IMQ 10 ATEX 020 X**

[4] PRODUCT: **FAN**
TYPE/SERIES: **FC **** / FCV **** / TCF **** / TCV ******

[5] MANUFACTURER: **MAICO ITALIA S.P.A.**

[6] ADDRESS: **VIA MAESTRI DEL LAVORO, 12 – I – 25017 LONATO DEL GARDA (BS)**

[7] This equipment and any acceptable variation thereto are specified in the annex to this statement and the documents therein referred to.

[8] IMQ states that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive 2014/34/EU with reference to the requirements covered by the standards below defined.

The examination and test results are recorded in Report No.: **43AK00010, AT16-0010008-01/05.**

[9] Compliance with Essential Health and Safety Requirement given in the Directive, except for those listed at item 18 of the annex, has been assured by compliance with the requirements of the following standard:

EN 14986:2017

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

[11] This TYPE EXAMINATION STATEMENT relates only to the design, examination and tests of the specified equipment. Further requirements of the Directive are **not covered** by this statement.

[12] The marking of the equipment shall include the following:



II 2 G Ex h IIA or IIB or IIB+H2 T* Gb
II 2 D Ex h IIIB or IIIC T°C Db

This document is composed of 3 pages including 1 annex

**B.U. PRODUCT CONFORMITY ASSESSMENT
CERTIFICATION SECTOR – MANAGER**

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Stefano Ferrari

This Statement is the result of testing a sample of the product submitted, in accordance with the provisions of the specified Technical Specifications/Standards. It is issued according to product certification system of EN ISO/IEC 17067; therefore, it does not imply any judgment on the production and it does not permit the use of a mark of conformity. Only full reproductions of this are allowed without written permission of IMQ.

[13] **ANNEX**

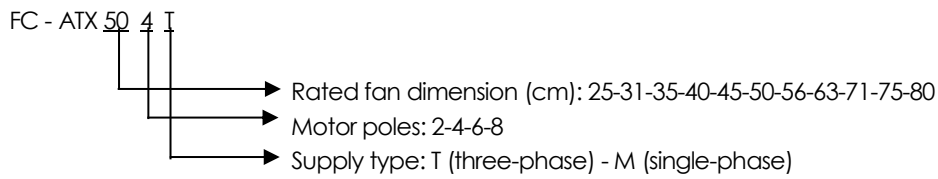
[14] Type Examination Statement number: **IMQ 10 ATEX 020 X**

[15] Description of product:

Fans **FC, FCV, TCF** and **TCV** series ATEX are used in industrial ventilation installations (both direct and canalized) for air replacement and they offer themselves for roof assembling on window well.

[15.1] Models/Series Identification:

Fans **FC, FCV, TCF** and **TCV** series ATEX are identified as follows:



Markings according to standards shall include the following:

Ex h IIA T(*) Gb	or	}	for cat. 2 G
Ex h IIB T(*) Gb	or		
Ex h IIB+H2 T(*) Gb			
Ex h IIIB T(*)°C Db	or	}	for cat. 2 D
Ex h IIIC T(*)°C Db			

* Motor temperature class

[15.2] Ratings:

Rated voltage: 230 V ± 5 % single-phase
 400 V ± 5 % three-phase
 Rated frequency: 48-62 Hz
 Rated power: 90-5500 W
 Rated rot. speed: 750-3000 rpm
 Relative speed: < 40 m/s

[15.3] Standards conformity:

Fans **FC, FCV, TCF** and **TCV** series ATEX are in conformity with the following documents:
 EN ISO 80079-36:2016
 EN ISO 80079-37:2016

[15.4] Ambient temperature and temperature classes:

Fans **FC, FCV, TCF** and **TCV** series ATEX have temperature class and ambient temperature of installed motor.

[15.5] Degree of protection (IP code): IP 20

[15.6] Warnings: -

[13] **ANNEX**

[14] Type Examination Statement number: **IMQ 10 ATEX 020 X**

[16] Report: 43AK00010; AT16-0010008-01/05.

[16.1] Routine (factory) tests:

The manufacturer shall carry out the routine test prescribed at clauses 27 of the EN 60079-0

[16.2] Conformity with the documentation:

The manufacturer shall carry out the verifications or tests necessary to ensure that the product complies with the documentation

[16.3] Installation conditions:

Fans **FC, FCV, TCF** and **TCV** series ATEX shall be installed according to EN 60079-14 standard

[17] Special Condition of use (X):

When access to ingress is not protected by other mean, it is mandatory to install the protection degree IP20. For category 2D fans, it is mandatory to use a safety device for monitoring of vibrations according to ISO 14694

[18] Essential Health and safety Requirements:

This Statement **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in [9].

ESHR 1.2.7 According Annex VIII of the Directive

ESHR 1.5 Not verified.

[19] Descriptive documents: DL-AT16-0010008-01/05, Rev. 0, dated 2018-01-22.

[20] Statement Validity Conditions:

The validity of this Statement is subject to the condition that the manufacturer complies with the results of the document review and of the pertinent requirement if any included, recorded in the relevant copy of documentation as per 19.

One copy of the mentioned documentation is kept in IMQ file.

[21] Variations:

2018-03: Standard update.

2018-06: Rated frequency, relative speed, rated power