



[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: **FIDI 20 ATEX 0009** Issue: **1**

[4] Product: **Axial Fan**
Type: **VAAZ T.. 315 - 1600**

[5] Manufacturer: **KONČAR - MES Inc.**

[6] Address: **Fallerovo šetalistište 22, 10000 Zagreb, Croatia**

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

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the 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 of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 20 CR 007**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN ISO 80079-36:2016	EN ISO 80079-37:2016	EN 14986:2017
EN 60079-0:2012/A11:2013	EN IEC 60079-0:2018	EN 60079-1:2014
EN IEC 60079-7:2015/A1:2018	EN 60079-31:2014	

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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



II 2G Ex db h IIB+H2 T5...T3 Gb or **II 2G Ex db eb h IIB+H2 T5...T3 Gb** or
II 2G Ex db h IIB T3 Gb or **II 2G Ex db eb h IIB T3 Gb** or
II 2G Ex eb h IIB+H2 T4...T3 Gb and/or
II 2D Ex h tb IIIC T90°C ...T160°C Db

Our ref.: 20.CRT.120

Date: 22.07.2020.



Fiditas d.o.o.
ZAGREB

FIDITAS Ltd.

Certification department

Approved:

Marino Kelava, M.E.Eng..

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[13] SCHEDULE
[14] EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 20 ATEX 0009
[15] Description of product

Fans of VAAZ series are axial with aerodynamically shaped impeller blades. Fan casing is made of galvanized sheet metal and blades are made of aluminium. There are different types of blades: Z, W, H, WF and MA. Enclosure contains protective ring made of copper alloy.

Inlet and outlet openings are protected with metal grid satisfying IP20 protection. All removable parts of fan are properly interconnected with copper braid.

The following explosion-proof protected electric motors are used to drive the fans:

Manufacturer	Type	Certificate	Ex marking
KONČAR-MES	5AT 71-80-90-100-112	CESI 05 ATEX 110X	II 2G Ex db IIB T3 Gb or II 2G Ex db eb IIB T3 Gb or II 2G Ex db IIC T3, T4, T5 Gb or II 2G Ex db eb IIC T3, T4, T5 Gb and/or II 2D Ex tb IIIC T130°C...T160°C Db
KONČAR-MES	7AT 90-100-112-132-160-180-200-225-250-280-315	CESI 03 ATEX 280X	II 2G Ex db IIB T3 Gb or II 2G Ex db eb IIB T3 Gb or II 2G Ex db IIC T3, T4, T5 Gb or II 2G Ex db eb IIC T3, T4, T5 Gb and/or II 2D Ex tb IIIC T130°C...T160°C Db
KONČAR-MES	7ATL 90-250	EXA 18 ATEX 0001X	II 2G Ex db eb IIB T5...T3 Gb or II 2G Ex db eb IIB T5...T3 Gb
KONČAR-MES	5AZS 63-160, 7AZS 90-160, 5AZST 63-160, 7AZST 90-315	CESI 19 ATEX 010X	II 2G Ex eb IIC T4...T3 Gb or II 2G Ex db eb IIC T4...T3 Gb and/or II 2D Ex tb IIIC T90°C...T135°C Db

Separately certified junction boxes can be used for supply connection:

Manufacturer	Type	Certificate	Ex marking
TEP Ex	SKX 12/E..; SKX 13/E..; SKX 14/E..; SKX 15/E	FIDI 19 ATEX 0056	II 2G Ex eb IIC T6 Gb and/or II 2D Ex tb IIIC T80°C Db
TEP Ex	SKX 16/E.. ; SKX 17/E..; SKX 18/E.. ; SKX 20/E.. ; SKX 16I/E.. ; SKX 18I-1/E.. ; SKX 18I-2/E.. ; SKX 20I/E..	FIDI 19 ATEX 0057	II 2G Ex eb IIC T6 Gb and/or II 2D Ex tb IIIC T80°C Db





Rated data:

Inlet size (mm)	315 to 1600
Air flow (m ³ /s)	up to 70
Maximum speed (r/min)	3600 (depend on motor type)
Pressure (Pa)	1400
Ambient temperature (°C)	-50 / -30/ -20 to +40/+50/+60 (depending on design)
Maximum fluid density (kg/m ³)	< 1,3
Maximum fluid temperature (°C)	+80

Marking:

VAAZ	BT	1250A	L600	E3540	M225 B5 P44
a)	b)	c)	d)	e)	f)

a)	Fan type - VAA – Axial fan with fixed blades - VAAZ - Axial fan with adjustable blades
b)	Version (one letter or combinations of letters) - A – Special construction - B – Marine ship construction - C – Fan for cooling - T – ATEX construction
c)	Fan marking by the type and outer diameter of rotor - 315-355-400-450-470-500-630-710-800-900-1000-1120- 1250-1400- 1600 A – Air flow direction
d)	Housing length in mm
e)	Direction of rotation - D - right direction of rotation - L - left direction of rotation - R - reversible direction of rotation
f)	Electric motor data, IEC size (i.e. M225); IEC shape (i.e. B5); electric motor power in kW (i.e. P44)

[16] **Confidential Report No.**

FIDI 20 CR 007

[16.1] **Routine testing**

None.

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[17] Specific Conditions of Use

None.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical description of axial fans series VAAZ 315-1600	Nr. 112838 - Annex 3	2	14.07.2020.
Fans VAAZ, B3 - dimensions	112838/A	-	24.06.2020.
Fans VAAZ, B3 - dimensions	112838/A1	-	26.06.2020.
Fans VAAZ, B5, B14 - dimensions	112838/B	-	24.06.2020.
Fans VAAZ, B5, B14 - dimensions	112838/B1	-	26.06.2020.
Fans VAAZ, B3 - dimensions	112838/C	-	24.06.2020.
Fans VAAZ, B3 - dimensions	112838/C1	-	26.06.2020.
Fans VAAZ, B5, B14 - dimensions	112838/D	-	24.06.2020.
Fans VAAZ, B5, B14 - dimensions	112838/D1	-	26.06.2020.
Fans VAAZ, B3 - dimensions	112838/F	-	24.06.2020.
Fans VAAZ, B3 - dimensions	112838/F1	-	26.06.2020.
Fans VAAZ, B3 - dimensions	112838/H	-	24.06.2020.
Fans VAAZ, B3 - dimensions	112838/H1	-	26.06.2020.
Fans VAAZ - impeller type Z	112838/J	-	26.06.2020.
Fans VAAZ - impeller type Z	112838/J1	-	26.06.2020.
Fans VAAZ - impeller type W	112838/K	-	26.06.2020.
Fans VAAZ - impeller type W	112838/K1	-	26.06.2020.
Speed limits of impellers type Z and type W	112838/JK1	-	26.06.2020.
Fans VAAZ - terminal box	112838/L	-	26.06.2020.
Fans VAAZ - flanges	112838/M	-	26.06.2020.
Fans VAAZ - protection grid	112838/N	-	26.06.2020.
Fans VAAZ - cutting plates	112838/O	-	26.06.2020.
Fans VAAZ - base for B3 motor mounting	112838/P	-	26.06.2020.
Fans VAAZ - impeller type H	112838/S	-	26.06.2020.
Fans VAAZ - impeller type H	112838/S1	-	26.06.2020.
Fans VAAZ - protection grid	112838/T	-	16.10.2015.
Fans VAAZ - impeller type WF	1128388/U	-	01.04.2020.
Fans VAAZ - impeller type WF	1128388/U1	-	01.04.2020.
Fans VAAZ - impeller type MA 1000	1128388/V	-	25.09.2019.
Fans VAAZ - impeller type MA 1000	1128388/V1	-	25.09.2019.
Fans VAAZ - impeller type MA 500	112838/W	-	26.06.2020.
Fans VAAZ - impeller type MA 500	112838/W1	-	26.06.2020.
Fans VAAZ C, B30 - dimensions	112838/Q	-	24.06.2020.
Fans VAAZ C, B30 - dimensions	112838/Q1	-	22.10.2019.
Fans VAAZ C, B3 - dimensions	112838/R	-	24.06.2020.
Fans VAAZ C, B3 - dimensions	1128388/R1	-	22.10.2019.



Title:	Drawing No.:	Rev. level:	Date:
Speed limits of impellers type H	Table S2	-	26.06.2020.
Speed limits of impellers type MA 500, type MA 1000 and type WF	Table S3	-	26.06.2020.
Risk analysis and assessment, verification of basic safety properties for axial fans series VAZZ T 315-1600	-	03	26.06.2020.
Installation, operation and maintenance instructions – centrifugal and axial fans	1136712	-	06.2020.

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