



Type Examination Certificate

Equipment Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC

(3) Type Examination Certificate Number:

FTZÚ 07 ATEX 0093X

(4) Equipment: **Centrifugal on line fan type TERNO-S K, KB 200 - Ex**

(5) Manufacturer: **ALTEKO, spol. s r.o.**

(6) Address: **Pod Cihelnou 454, 267 24, Hostomice pod Brdy, CZ**

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

(8) The Physical Technical Testing Institute certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of Category 2 equipment, which is intended for use in potentially explosive atmospheres given in Annex II to the Council Directive 94/9/EC.

The examination and test results are recorded in confidential Report N°

07/0093 dated April 2007

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

EN 13463-1:2001; EN 13463-5:2003

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

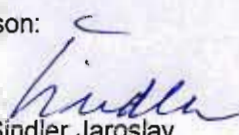
(11) This TYPE EXAMINATION CERTIFICATE relates only to the design, examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

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

Ex II 2G c

This Type Examination Certificate is valid till: **30.04.2012**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 30.04.2007

Number of pages: 3

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PHYSICAL TECHNICAL TESTING INSTITUTE
Ostrava-Radvanice

(13)

Schedule

(14) **Type Examination Certificate N° FTZÚ 07 ATEX 0093X**

(15) Description of Equipment:

Explosion-proof on line fan type TERNO-S K, KB 200 - Ex is low pressure, radial fan with zinc plated impeller, which has forward bent vanes. This fan can be use indoor or outdoor and can convey air without solid, fibre, glue or aggressive mixture. Parts of enclosure are made from zinc plated steel or stainless steel plate connected by spot welding or by bolts. A brass air intake is bolt up to fan body. The fan is on line driven by explosion-proof electrical flanged motor. All bolt connection with fanwise washer ensure equipotential bonding between of all separate parts. Fan is equipped by earthing terminal. Impeller counterweights are secured by soldering. Also all bolts used on fan are secured either by thread deformation or by tab washer. Clearance between impeller and air intake is minimum 1 % of impeller diameter.

The counterweights are riveted or soldered to the impeller.

Technical parameters:

$$Q_{vmax} = 0,45 \text{ m}^3 \cdot \text{s}^{-1}$$

$$n_{max} = 2855 \text{ min}^{-1}$$

$$\Delta p_{max} = 1075 \text{ Pa}$$

$$\rho = 1,2 \text{ kg} \cdot \text{m}^{-3}$$

(16) Report No. : 07/0093

13+3 pages

(17) Special conditions for safe use:

Direct fan drive shall be provided by relevant certified explosion – proof electric motor with appropriate power and maximum rotation speed 2855 r/min which is selected according to potentially explosive atmospheres (zones in accordance with EN 60 079-10) present inside and outside of fan.

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (9) of this certificate.

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



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(14)

Type Examination Certificate N° FTZÚ 07 ATEX 0093X

(19)

LIST OF DOCUMENTATION

- Drawing No. 11042 on 14.07.2003
- 7911 on 09.06.2003
- 7912 on 11.01.1999
- 7189 on 27.04.1995
- 2617 on 08.01.1999
- 7910 on 08.01.1999
- 2618 on 17.04.2007
- Instruction for use No NP 11/07 Ex. – relating to the explosion protection on 03.04.2007

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



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