

TYPE EXAMINATION CERTIFICATE

[1]

[2] Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC[3] Type Examination Certificate Number: **EXA 14 ATEX 0064X** Issue: **1**[4] Equipment or Protective System **Fire Damper**Type: **FD-Ex, FDC-Ex**[5] Manufacturer: **Klimaoprema d.d.**[6] Address: **Gradna 78A, 10430 Samobor, CROATIA**

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

[8] Ex-Agencija 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 equipment or protective system intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential report number: **EXA 14CR059**[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 13463-1:2009 **EN 13463-5:2011**

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 equipment or protective system is subject to specific conditions for safe use specified in the schedule to this certificate.

[11] This Type Examination Certificate relates only to the design, examination and test of the specified equipment or protective system. 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 the following:


**II 2G c IIC T6**

or

II 2D c T80°C

Date: 05.02.2015.

PB.14.TC.1001/IŠ


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[13] SCHEDULE
[14] TYPE EXAMINATION CERTIFICATE No.: EXA 14 ATEX 0064X
[15] Description of Equipment or Protective System

Fire dampers of type FD-Ex and FDC-Ex are used in heating, ventilation and air conditioning (HVAC) ducts to prevent the spread of fire, heat and smoke coming from endangered area. FD marking stands for rectangular and FDC for circular design of housing.

When the temperature inside the duct (inside damper) reaches 72°C, a thermal release mounted on damper cuts off the power. Without power a spring mechanism inside the actuator automatically closes the damper.

Rectangular fire dampers (FD-Ex) are available in range from 200x200 mm to 1500x800 mm with increments of 50 mm. The identification format is FD 25/40 – BxH – Ex where:

FD 25/40 – rectangular fire damper, damper blade thickness is 25 or 40 mm,

BxH – fire damper dimension (width x height, mm²),

Ex – explosion protection construction.

Circular Fire Dampers (FDC-Ex) are available in range from Ø100 do Ø630 mm. Identification format is FDC 25/40 – ØD – Ex where:

FDC 25/40 – circular fire damper, damper blade thickness is 25 or 40 mm,

Ø – fire damper diameter (mm),

Ex – explosion protection construction.

[15.1] Documentation

Title:	Drawing No.:	Rev. level:	Date:
Fire Dampers: type FD-Ex and FDC-Ex; Doc. Nr. TD-2004., pages 27/27	-	-	27.01.2015.
APPENDIX IV (FD-Ex)			
Housing FD40, page 1/1	645.01.00	-	27.01.2015.
External embedded parts FD and FDC, page 1/1	643.03.00	-	27.01.2015.
Damper blade FD40, page 1/1	645.02.00	-	27.01.2015.
Housing assembly of FD40 Fire Damper, page 1/1	645.01.00	A	27.01.2015.
Power drive (Ex), page 1/1	643.04.50	A	27.01.2015.
FD40-Ex fire Dumper, page 1/1	645.00.50	A	27.01.2015.
Housing FD25, page 1/1	643.01.00	-	27.01.2015.
External embedded parts FD i FDC, page 1/1	643.03.00	-	27.01.2015.
Damper blade FD25, page 1/1	643.02.00	-	27.01.2015.
FD25-Ex Fire Damper, page 1/1	643.00.50	A	27.01.2015.
Housing assembly of FD25 Fire Damper, page 1/1	643.01.00	A	27.01.2015.

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Title:	Drawing No.:	Rev. level:	Date:
Power drive (Ex), page 1/1	643.04.50	A	27.01.2015.
APPENDIX V (FDC-Ex)			
Housing FDC25, page 1/1	644.01.00		27.01.2015.
External embedded parts FD and FDC, page 1/1	643.03.00	-	27.01.2015.
Damper blade FDC, page 1/1	644.02.00	-	27.01.2015.
Housing assembly of FDC Fire Damper, page 1/1	644.01.00.***.M/R	A	27.01.2015.
Power drive (Ex), page 1/1	644.04.50	A	27.01.2015.
FDC25-Ex, page 1/1	644.00.50	A	27.01.2015.
Housing FDC40, page 1/1	646.01.00	-	27.01.2015.
External embedded parts FD and FDC, page 1/1	643.03.00	-	27.01.2015.
Damper blade FDC, list 1/1	646.02.00	-	27.01.2015.
Housing assembly of FDC Fire Damper, page 1/1	644.01.00.***.M/R	A	27.01.2015.
Power drive (Ex) , page 1/1	644.04.50	A	27.01.2015.
FDC40-Ex, page 1/1	646.00.50	A	27.01.2015.

[16] Confidential Report No. EXA 14CR059

[16.1] Routine testing

The manufacturer shall carry out the following routine tests:

[17] Specific Conditions for Safe Use 'X'

1. The power drive of the fire dampers is restricted exclusively to actuators manufactured by Schischek Explosionsschutz GmbH, model S type Ex Max with explosion protection marking II 2 (1) G Ex d [ia] IIC T6, T5 i T4 and/or II 2 (1) D Ex tD [iaD] A21 IP66 T80, T95 i T130°C.
2. The use of a thermal release is restricted exclusively to the thermal release manufactured by Schischek GmbH type ExPro-TT-.. with explosion protection marking II 2 G Ex ia IIC T6 and/or II 2 D Ex tD iaD A21 IP66 T80°C.
3. For electrical connection of actuator and thermal release only the terminal box type ..Box.. manufactured by Schischek GmbH is to be used with explosion protection marking II 2 G Ex d e ia [ia] mb IIC T6, T5 or T4 Gb and/or II 2 D Ex tb IIIC T85°C, T100°C or T135°C Db IP66.
4. After installation of the equipment, it is necessary to ensure the connection of the equipment to the potential equalization system according to the Manufacturer's instructions.

[18] Essential Health and Safety Requirements

Covered by the standards listed at item 9.

