



1) TYPE EXAMINATION CERTIFICATE

- 2) Equipment or protective system intended for use in potentially explosive atmospheres — Directive 2014/34/EU
- 3) Type Examination Certificate Number : **SCA21ATEXV013X**
- 4) Equipment: **Aerosol Fire Extinguisher**
TYPES: **HFX-50, HFX-100, HFX-200, HFX-500, HFX-1100, HFX-2200, HFX-3400, HFX-4500, HFX-6000**
- 5) Manufacturer : **HAFEX Hybrid Aerosol Yangın Söndürme Sistemleri ve Mühendislik Hizmetleri San. Tic. Ltd. Şti.**
- 6) Manufacturer Address : Yeşilce Mah. Dostluk Sok. No: 12/1/4 Kağıthane, İstanbul/TURKEY
- 7) Applicant : YG Yangın Güvenliği San. ve Dış. Tic. Ltd. Şti.
- 8) Applicant Address : Yeşilce Mah. Ulubaş Cad. Dostluk Sok. No: 12/1 D.4 Kağıthane, İstanbul/TURKEY
- 9) Equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- 10) SCA Belgelendirme ve Özel Egt. Hizm. Ltd. Şti. Certifies that this equipment has been found to comply with the Essential Health and Safety Requirements that relate to the design of Category 3 equipment, which is intended for use in potentially explosive atmospheres. These Essential Health and Safety Requirements are given in Annex II to European Union Directive 2014/34/EU of the European Parliament and of the Council, 26 February 2014.
The examination and test results are recorded in the confidential report **V/2021-06-158/Rp.02**
- 11) Essential Health and Safety Requirements is made about reference standards.
EN 60079-0:2018, IEC 60079-33:2012
- 12) If the sign “X” is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions of safe use specified in the schedule to this certificate.
- 13) Type Examination Certificate relates only to the design of the specified equipment, and not to specific items of equipment subsequently manufactured.
- 14) The marking of the equipment shall include the following :

 **II 3G Ex sc IIC T5...T1 Gc**

The competent person
SCA Technical Manager
İsmail OĞLAKCIOĞLU

Date of Approval : 25.03.2022



15) SCHEDULE

16) **Type Examination Certificate : SCA21ATEXV013X**

17) **Description of Equipment and/or Protective System:**

When the aerosol fire extinguishers are activated, they produce a dense fog consisting of particles with an effective fire extinguisher feature and a weight of 2 microns and smaller in size as a result of the redox (reduction-oxidation) reaction that begins within the extinguisher. This fog contains carbonate and bicarbonate compounds of alkaline earth metals, nitrogen, carbon dioxide and some water vapor.

There is a PVC film on outlets of the Condensed Aerosol Generators which hermetically seals the enclosure.

The HFX-50, HFX-100, HFX-200, HFX-500 models' enclosure is made of SAE 304 (SUS 304) stainless steel.

The HFX-1100, HFX-2200, HFX-3400, HFX-4500, HFX-6000 models' enclosure is made of DKP sheet metal with electrostatic powder coating.

The electrical activation of the aerosol fire extinguishers is performed by a 2-pin electric actuator on the aerosol fire extinguishing unit.

Technical Parameters

Pulse voltage : 1.5 V

Pulse current : 1 A

Monitoring current : 20 mA

Ambient temperature : -40°C to +60°C

Temperature Classes

Temperature classes depends on the models;

Models	Temperature Class
HFX-50, HFX-100, HFX-200	T5
HFX-500, HFX-1100, HFX-2200, HFX-3400	T3
HFX-4500, HFX-6000	T1

18) **Test and Assessment Report V/2021-06-158/Rp.02**

The competent person
SCA Technical Manager
İsmail OĞLAKCIOĞLU

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CONTINUATION OF SCHEDULE TO TYPE EXAMINATION CERTIFICATE SCA21ATEXV013X

19) Special Conditions for Safe Use :

- The aerosol generators were demonstrated by laboratory tests to be not capable to ignite the explosive atmosphere, also in case of accidental activation, but they are not described by any standardized protection method.

- Tamb: -40°C to +60°C

- PVC film should be replaced in accordance with user manual or whenever damage is observed. Equipment shouldn't be used without PVC film.

- Aerosol extinguishing units should be visually inspected to ensure that they are undamaged and that they have not parts that lost their functions.

20) Essential Health and safety Requirements :

Met by compliance with the standards listed in Section 11 of this certificate.

21) Drawings and Documents :

Technical file HAFEX01/Rev.00 which dated 15.09.2021, includes drawings, safety, maintenance and mounting instructions.

Drawing No	Pages	Title	Rev.	Date
D50-1	1	HFX-50 general drawing	1.0	07.03.2019
D50-2	1	HFX-50 dimensional drawing	1.0	07.03.2019
D100-1	1	HFX-100 general drawing	1.0	07.03.2019
D100-2	1	HFX-100 dimensional drawing	1.0	07.03.2019
D200-1	1	HFX-200 general drawing	1.0	07.03.2019
D200-2	1	HFX-200 dimensional drawing	1.0	07.03.2019
D500-1	1	HFX-500 general drawing	1.0	07.03.2019
D500-2	1	HFX-500 dimensional drawing	1.0	07.03.2019
D1100-1	1	HFX-1100 general drawing	1.0	07.03.2019
D1100-2	1	HFX-1100 dimensional drawing	1.0	07.03.2019

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CONTINUATION OF SCHEDULE TO TYPE EXAMINATION CERTIFICATE SCA21ATEXV013X

Drawing No:	Pages	Title	Rev.	Date
D2200-1	1	HFX-2200 general drawing	1.0	07.03.2019
D2200-2	1	HFX-2200 dimensional drawing	1.0	07.03.2019
D3400-1	1	HFX-3400 general drawing	1.0	07.03.2019
D3400-2	1	HFX-3400 dimensional drawing	1.0	07.03.2019
D4500-1	1	HFX-4500 general drawing	1.0	07.03.2019
D4500-2	1	HFX-4500 dimensional drawing	1.0	07.03.2019
D6000-1	1	HFX-6000 general drawing	1.0	07.03.2019
D6000-2	1	HFX-6000 dimensional drawing	1.0	07.03.2019
LBL-01	1	Nameplate (Label)	1.0	07.03.2019

.....END OF CERTIFICATE.....

The competent person
SCA Technical Manager
İsmail OĞLAKCIOĞLU

Date of Approval : 25.03.2022

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This Certificate May Only Be Reproduced In Its Entirety And Without Change