fire kloud AEROSOL REVOLUTION TECHNOLOGY

Data sheet
FKa 1000



Technical features

Model	**FKa 1000 E**
Gross weight	11800 ± 350 g
Extinguishing mass	1000 g
Efficiency	61%
Dimensions	322x174x220 mm *
Operating temperature	-50 °C +95 °C
Relative humidity	95%
Discharge time	11...14 s
Cooling mode	mechanical/physical
Type of diffusion	conical
Coverage range (Hmin = 2,2 m)	10 m^2
Coverage range (Hmax = 3,5 m)	6,3 m^2
Discharge range	4 m
Fire class	A, B, C
Global Warming Potential (GWP)	0
Ozone Depletion Potential (ODP)	0
Atmospheric Lifetime (ALT)	negligible
Ignition power (Reliability 99%, Reliance 0,8)	0,7 A / 500 ms
Activator resistance	2,5 ± 0,7 Ohm
Surveillance electrical current	50 mA
Maximum non-ignition electrical current	0,17 A
Resistance to electrostatic shocks	± 25 KV/200 pF/ 500 Ohm
Activation time at 0,7 A	1...8 ms
Safety distance for building structure (T=400 °C)	8 cm
Safety distance for flammable materials (T=200 °C)	20 cm
Safety distance for people (T=75 °C)	70 cm
Maximum metal casing temperature	200 °C
Design density Class A, B, C (including safety factor)	58,95 g/m^3
Service life	15 years

* measurements do not include the size of the activators

Firex reserves the right to make any technical modifications to the product.

RINA P0019412/1 · UNI EN 15276 · ISO 15779 · SIL 3 IEC 61508 · 15 YEARS Certified product life

Field of application

Volumetric protection of paper archives, libraries, data centres, depots, generator rooms, technical rooms, etc.

Product description

- The generator consists of a galvanised steel casing powder-coated RAL 3001 (other colours available on request).
- The generator is provided with fixing brackets.
- The electrical activators are interchangeable and use as a connection system a square flange circular connector conforming to MIL 5015 standard; for cabling, each generator is equipped with a kit, consisting of a circular flying connector conforming to MIL 5015 standard and a, 1,5 m long, 2x1 mm^2, unshielded, fire-resistant cable conforming to CEI 20105V2 standard.

Test and certifications

- Fire Kloud aerosol generators are certified by RINA Services in accordance with EN 15276 and ISO 15779 standards.
- All products are SIL certified in accordance with the IEC 61508 standard.
- Each generator complies with the EMC Directive 2014/30/EU in accordance with CEI EN 61000-6-1, EN 61000-6-2 and EN 61000-6-3/A1/AC standards.
- All Fire Kloud aerosol generators have passed the impact and vibration test in accordance with CEI EN 61373 - Category 1 Class B and guarantee a 240 hours salt fog resistance in accordance with the UNI EN 15276 standard and the UNI EN ISO 9227 test method.
- The Fire Kloud aerosol extinguishing agent is very effective, environmentally friendly, non-aggressive (pH value 8-9) and non-toxic at the concentrations used.

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FIREX TECNOLOGIE ANTINCENDIO
Fir.Ex. S.r.l.
Via delle Centurie, 3/5 - 03100 Frosinone
t +39 0775 1530692 r.a. www.firekloud.it

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