fire kloud AEROSOL REVOLUTION TECHNOLOGY

Data sheet
FKa 100



Technical features

Models	**FKa 100 R / FKa 100 RQ**
Gross weight (without bracket)	1110 ± 50 g
Extinguishing mass	100 g
Efficiency	60%
Dimensions	45x45x291 mm *
Operating temperature	-50 °C +95 °C
Relative humidity	95%
Discharge time	8...9 s
Cooling mode	mechanical/physical
Type of diffusion	adjustable lamellar
Coverage range (Hmin = 0,45 m)	3,4 m^2
Coverage range (Hmax = 1,2 m)	1,1 m^2
Discharge range	2 m
Fire class	A, B, C
Global Warming Potential (GWP)	0
Ozone Depletion Potential (ODP)	0
Atmospheric Lifetime (ALT)	negligible
Activator resistance	2,5 ± 0,7 Ohm
Ignition power (Reliability 99%, Reliance 0.8)	0,7 A / 500 ms
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 of building structures (T=400 °C)	1,5 cm
Safety distance for flammable materials (T=200 °C)	2,5 cm
Safety distance for people (T=75 °C)	50 cm
Maximum metal casing temperature	300 °C
Design density Class A, B, C (including safety factor)	58,95 g/m^3
Protected area Class A, B, C	max 1,70 m^3
Service life	15 years

* measurements include the size of the activator

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

Object protection, for industrial, naval and railway applications, of electrical cabinets, UPS, inverters, command and control panels, battery panels, power centres, telephony equipment, etc. Volumetric protection of hidden areas such as false ceilings, floating floors, cavities and cable ducts.

Product description

- available models:
  R: for the protection of false ceilings and sub-floors;
  RQ: for protection of electrical and/or electronic equipment;
- the generator consists of a galvanised steel casing, powder coated RAL 3001 (other colours available on request);
- the generator is equipped with an electrical activator and fixing brackets;
- the electrical activators are interchangeable and are connected by a circular connector with a square flange in accordance with MIL 5015 standard; for the wiring each generator is equipped with a kit, which includes a circular flying connector in accordance with MIL 5015 standard and an unshielded, fire-resistant cable in accordance with CEI 20105V2 standard, 2x1 mm^2, 1,5 m long.

Tests and certifications

- Fire Kloud aerosol generators are certified by RINA Services in accordance with UNI 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 according to CEI EN 61000-6-1, EN 61000-6-2, EN 61000-6-3/A1/AC and CEI EN 50155 standards.
- The Fire Kloud aerosol extinguishing agent is very effective, environmental friendly, non-aggressive (pH value 8-9) and non-toxic at the concentrations used.

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