fire kloud

AEROSOL
REVOLUTION
TECHNOLOGY



FKa 100 RQ

Installation sheet

Installation, assembly and connection instructions

P0019412/1

UNI EN 15276
ISO 15779

SIL 3
IEC 61508

15 YEARS
Certified product life

Rev. 01 EN 02/2024

FIREX TECNOLOGIE ANTINCENDIO

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Via delle Centurie, 3/5 - 03100 Frosinone
t +39 0775 1530692 r.a. **www.firekloud.it**

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Member of CISQ Federation
CERTIFIED MANAGEMENT SYSTEM
ISO 9001

FKa 100 RQ

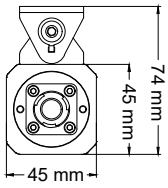
Installation, assembly and connection sheet

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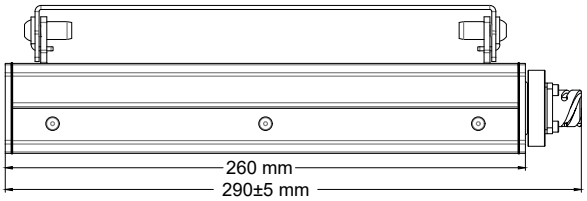
Package contents

- Aerosol generator mod. FKa 100 RQ.
- Fixing bracket.
- 2 lock washers and 2 M6 Allen screws.
- N.C. thermostat T=70°C (complete with clamp for fastening).
- Fire resistant connection cable in compliance with CEI 20105V2 EN50200 PH30 2x1 sq. mm L=150 cm provided with a circular connector.
- Identifying label.
- Installation, assembly and connection sheet.

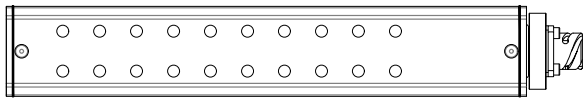
Dimensional specifications FKa 100 RQ



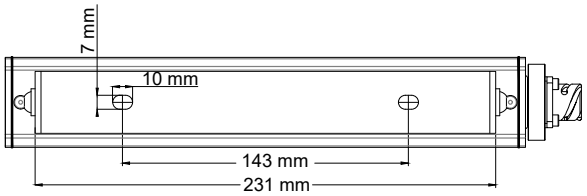
frontal view



side view



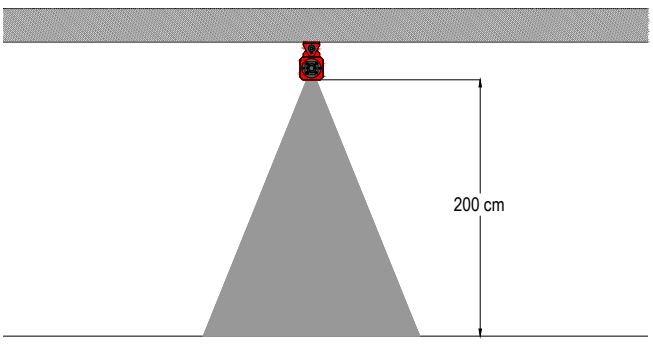
bottom view



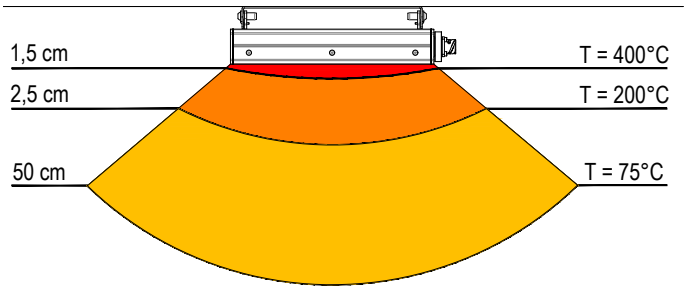
top view

Generator discharge features

Before positioning the generator, check that it is compatible with the discharge range and that safety distances are observed (for details see the installation and operation manual).



Flow direction and range during discharge



Flow temperatures during discharge

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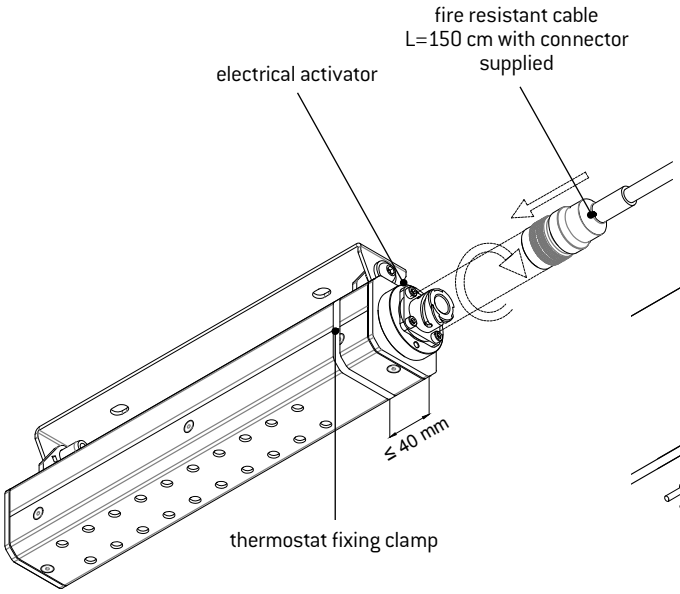
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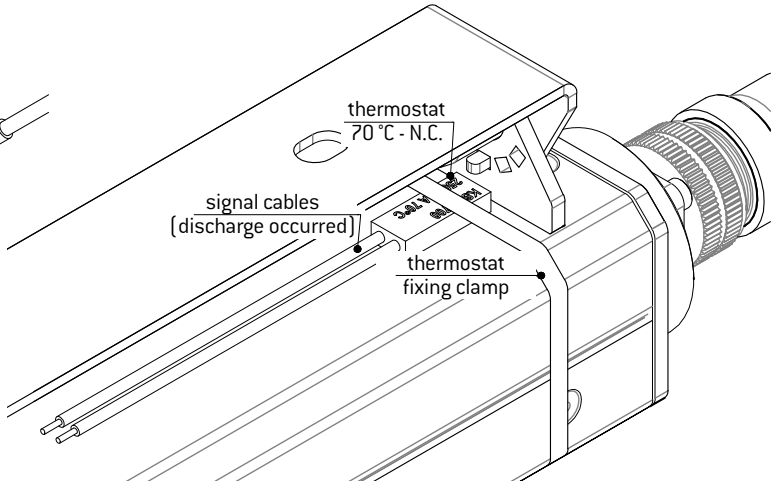
Installation, assembly and connection sheet

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Connection procedures

- Before connecting the generators, read the installation and operation manual carefully.
- The connection procedures must be done after the generator has been positioned and fixed.
- Fire Kloud aerosol generators must be connected only after the system has been commissioned and tested (see the installation and operation manual).
- If a generator is controlled by a T-Start detection and activation device, in order to signal the fire alarm and discharge, fix the thermostat as shown in the figure, respecting the distances and making sure that the fixing clamp doesn't obstruct the discharge outlets.
- During the installation, consider the overall dimensions, with paired connectors, of the connection cable with the generator [> 80 mm].

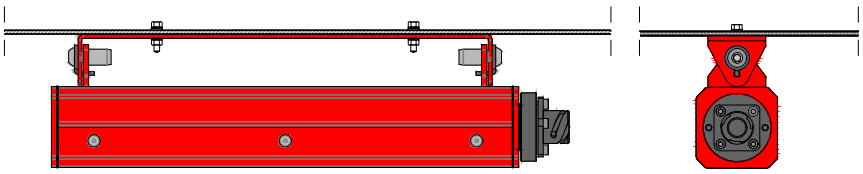




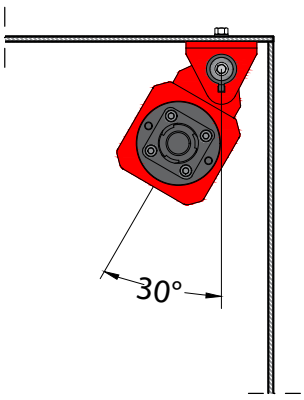
Anchoring and fixing modes

The fixing plug for the generator must be chosen according to the characteristics of the support and must guarantee secure anchorage during the operation of the generator.

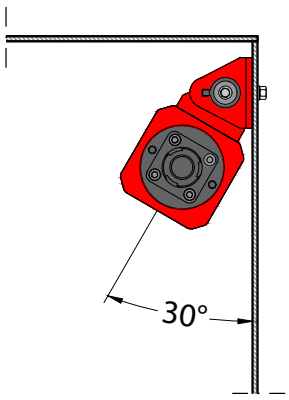
at the top centre of the compartment



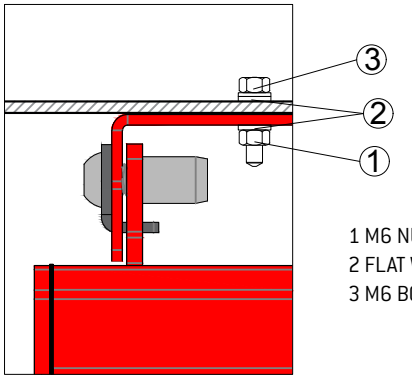
at the top rotated by 30°



laterally rotated by 30°



fixing detail



1 M6 NUT
2 FLAT WASHER
3 M6 BOLT

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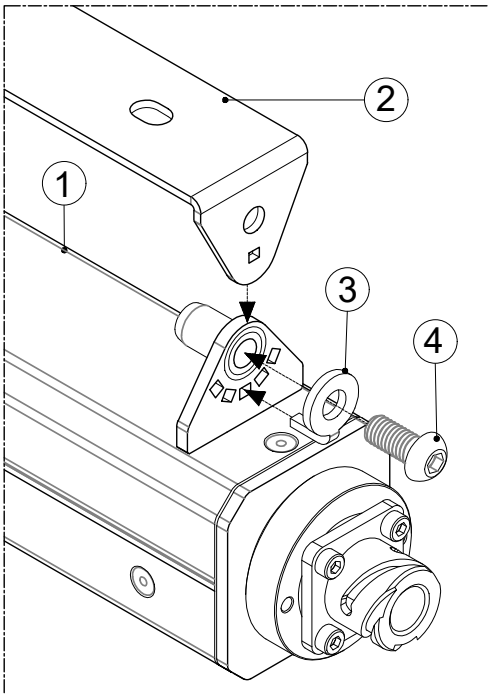
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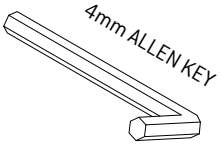
Installation, assembly and connection sheet

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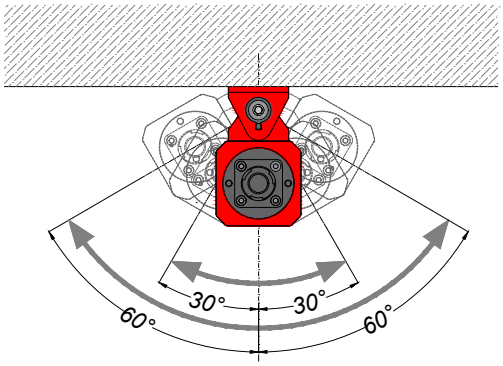
Bracket mounting instructions



1 AEROSOL GENERATOR
2 BRACKET
3 LOCKING WASHER
4 M6 ALLEN SCREW



INSTALLATION FLEXIBILITY



IDENTIFYING LABEL

fire kloud FIRE EXTINGUISHING AEROSOL GENERATOR

THIS EQUIPMENT IS PROTECTED BY FIRE KLOUD AEROSOL EXTINGUISHERS

MOD. **DATE**

S. / N.

manufactured by: FIREX TECNOLOGIE ANTINCENDIO

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Attach the identifying label outside the electrical cabinet in a position that is clearly visible (e.g. on the outside of the door) and fill in all its fields as described below:

MOD: Generator model (e.g. FKa 100 RQ)
DATE: Date of installation
S. / N.: Serial Number (e.g. 1600000001-001)

WARNINGS

The installation date is to be considered as the start date for routine maintenance. For the expiry date of the product, the date is shown on the generator itself (PRODUCTION DATE).

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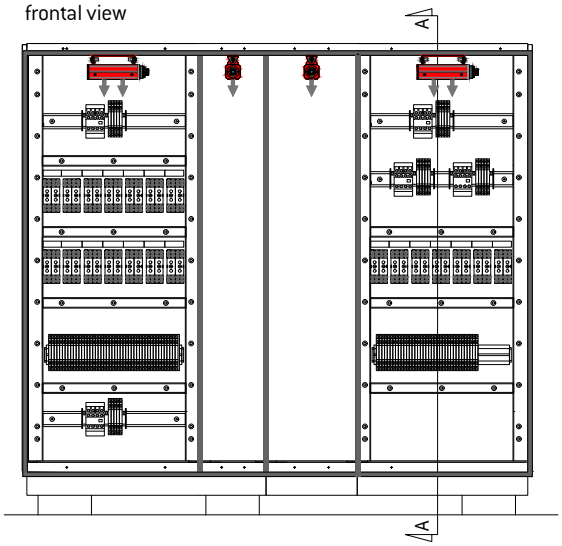
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Installation in electrical equipment

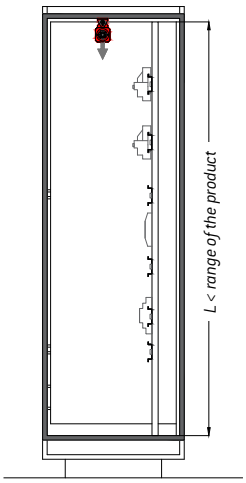
EXAMPLES OF INSTALLATION IN ELECTRICAL EQUIPMENT

Top installation

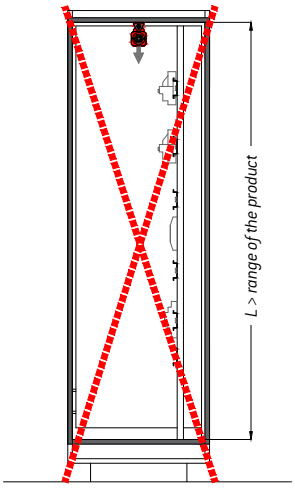
frontal view



A-A section

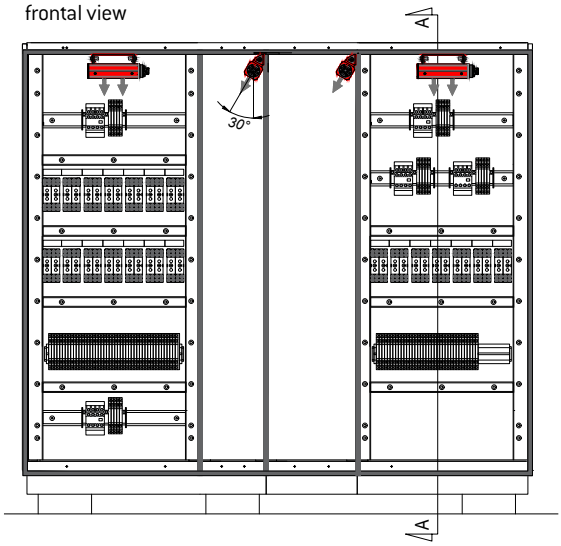


incorrect solution

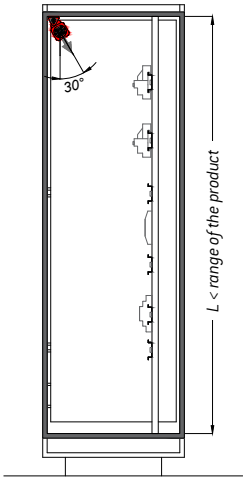


Top installation rotated by 30°

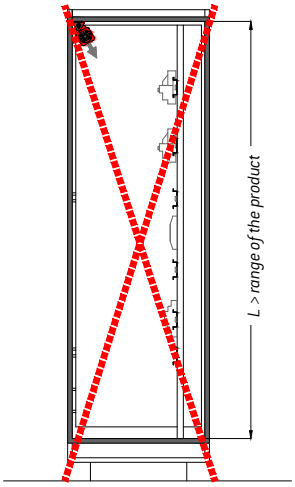
frontal view



A-A section



incorrect solution



INSTALLATION ADVICE IN ELECTRICAL EQUIPMENT

- The generators must be installed as described in the following points, and in any case in a number and position that guarantee an even distribution and a correct concentration;
- The generator must be installed in accordance with the manufacturer's instructions and in compliance with the safety distances;
- Direct the flow in the direction of the potential fire start;
- If there are segregations at the front of the switchboard, place the generator at the rear to protect the connection bars, wiring and components;
- If there are switchboards with withdrawable drawers at the front, position the generator at the rear to protect the cable leads and copper bars;
- In the case of segregated cable runs and/or horizontal segregation, protect each segregated compartment with a suitable sized generator;
- Due to the high temperature of the generator after the discharge, make sure that the metal casing is not in contact with objects or other things (switches, cables, conduits, etc.);
- Ensure that there are no objects or other things involved at distances shorter than the safety distance (recommended distance from the flow ≥10 cm);
- For a correct distribution of the aerosol, make sure that the direction of discharge is respected and that the flow comes out freely (recommended distance from the flow of any obstacles ≥30 cm);
- The anchorage of the generator must be chosen according to the characteristics of the support;
- In the presence of components that obstruct the normal distribution of the extinguishing agent, provide more than one point of discharge;
- Respect the installation height of the generators in accordance with the maximum discharge range or provide several discharge points for electrical cabinets with a higher discharge range.

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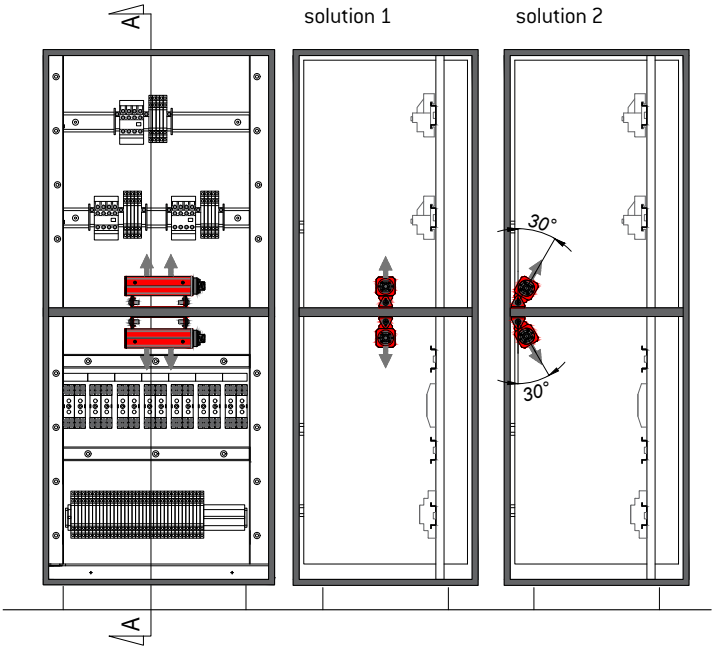
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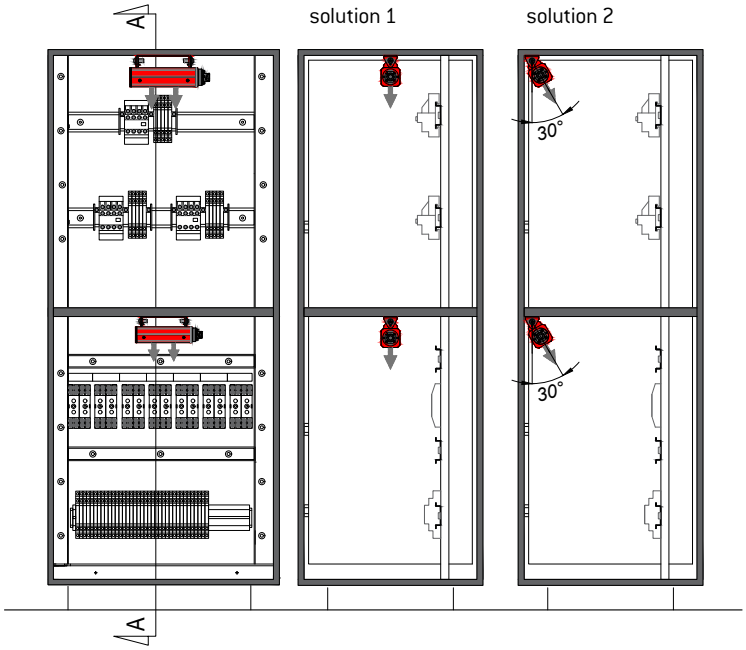
Installation, assembly and connection sheet

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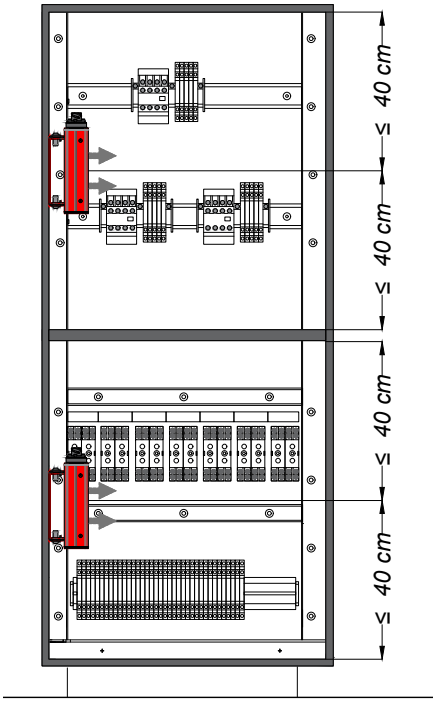
EXAMPLES OF INSTALLATION IN ELECTRICAL EQUIPMENT

Installation in the presence of horizontal segregations

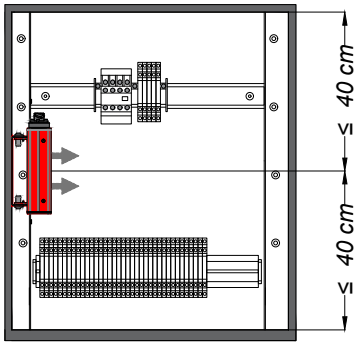




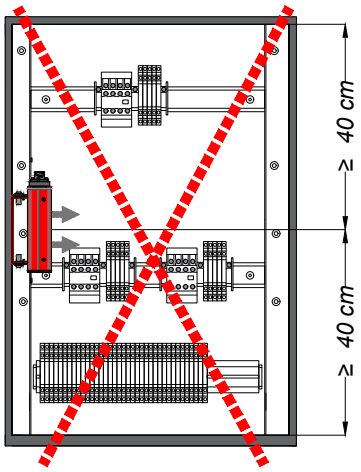
Lateral installation



correct solution



incorrect solution



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