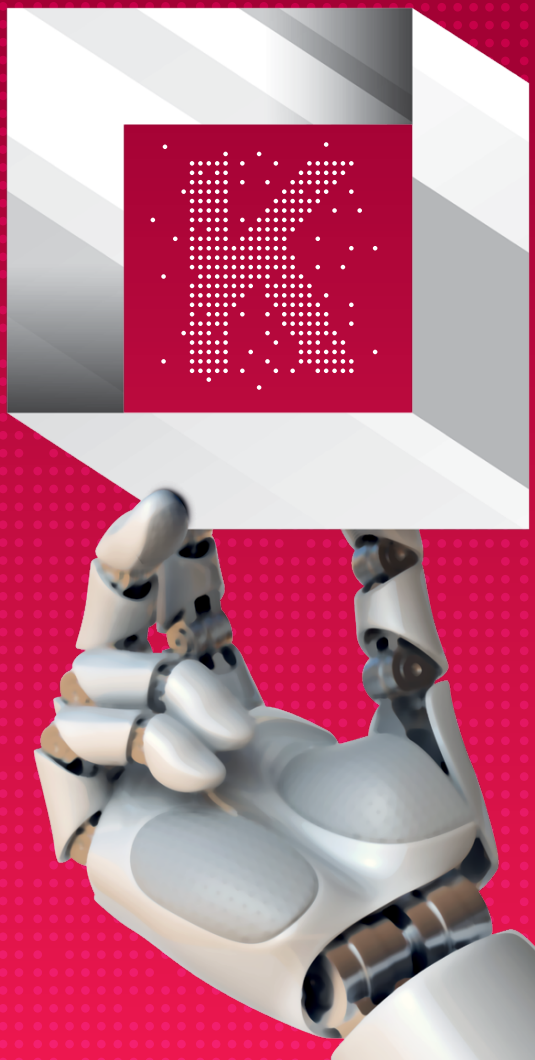
FIRE KLOUD
THE CUTTING EDGE OF FIREFIGHTING SYSTEMS WITH AEROSOL TECHNOLOGY



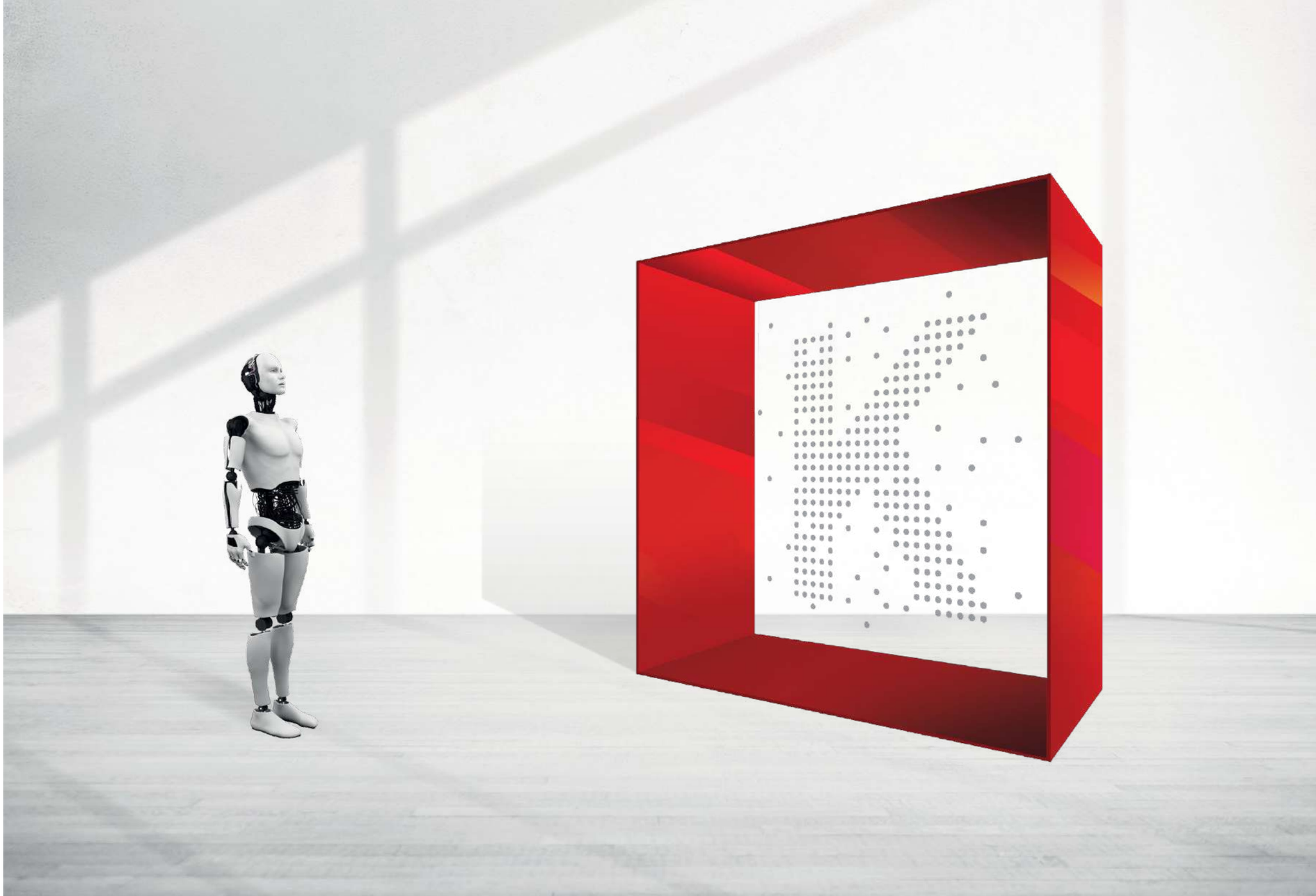
fire kloud
AEROSOL **REVOLUTION** TECHNOLOGY

INTRODUCING THE **CUTTING EDGE OF AEROSOL GENERATORS** WITH **FIRE KLOUD TECHNOLOGY**

With Firex's cutting-edge technology, the Fire Kloud aerosol system offers extremely high performance in firefighting.

Using an ultra-fine dispersion of potassium salt particles, it extinguishes the fire in few seconds with a low concentration of extinguishing agent.

Created through constant research and development by our team of experts, the Fire Kloud aerosol system is effective, clean, non-toxic and leaves no residue on objects and in protected areas.



THE FIRE KLOUD SYSTEM IS **ENVIRONMENTALLY FRIENDLY**

Fire Kloud aerosol fire suppression systems are environmentally friendly and designed for a sustainable future.

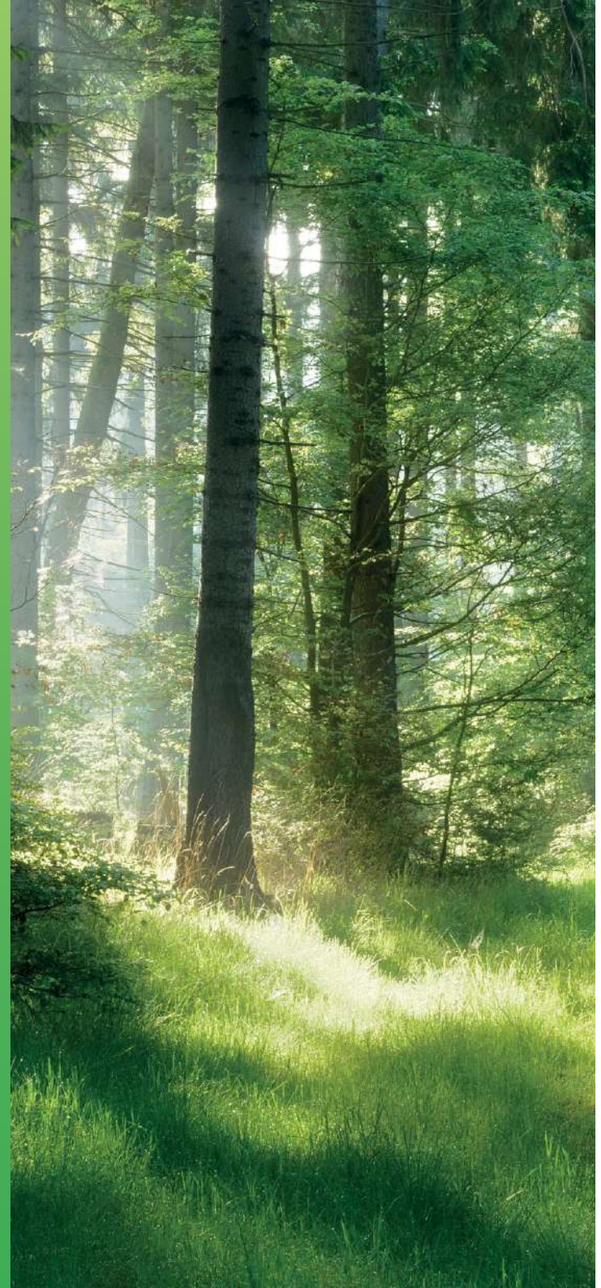
We continually monitor our products and production processes to contribute to the protection of the environment and public health.

The extinguishing agent consists of natural potassium salts, contains no pyrotechnic materials, and is free of harmful chemicals.
Fire Kloud aerosol systems do not damage the ozone layer and have zero global warming potential.

ENVIRONMENTALLY FRIENDLY

DOES NOT DAMAGE THE OZONE LAYER

ZERO GLOBAL WARMING POTENTIAL



FIRE KLOUD AEROSOL, THE **CLEAN EXTINGUISHING AGENT** THAT PROTECTS PEOPLE, PROPERTY AND ENVIRONMENTS

Fire Kloud aerosol systems use the latest generation of solid FKC compound consisting of very small particles of natural potassium salts. Once activated, it transforms into a rapidly expanding condensed aerosol made up of microparticles of potassium salts suspended in a mixture of inert gases (nitrogen, carbon dioxide, and water vapor). Extinction is achieved by the interruption of chemical reactions occurring in combustion, without any reduction in the oxygen content of the environment.

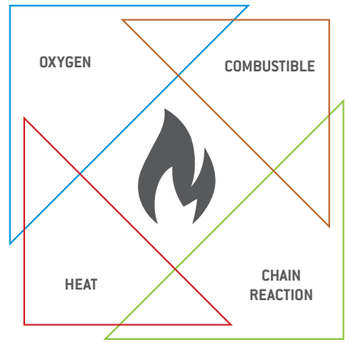
The potassium carbonate in the extinguishing agent interferes with the fire reaction chain, effectively breaking it, and producing instantaneous inhibition of combustion at the molecular level in an efficient and rapid way.

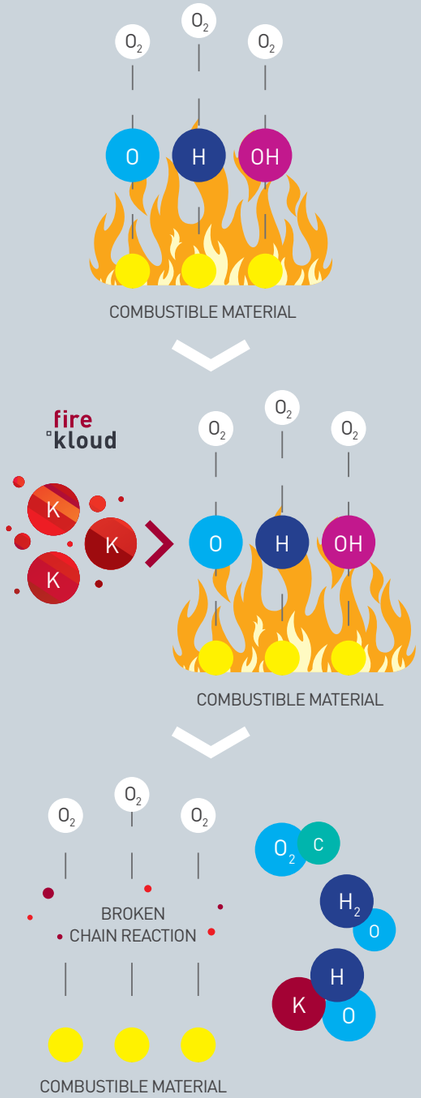
Class A
combustible solids

Class B
flammable liquids

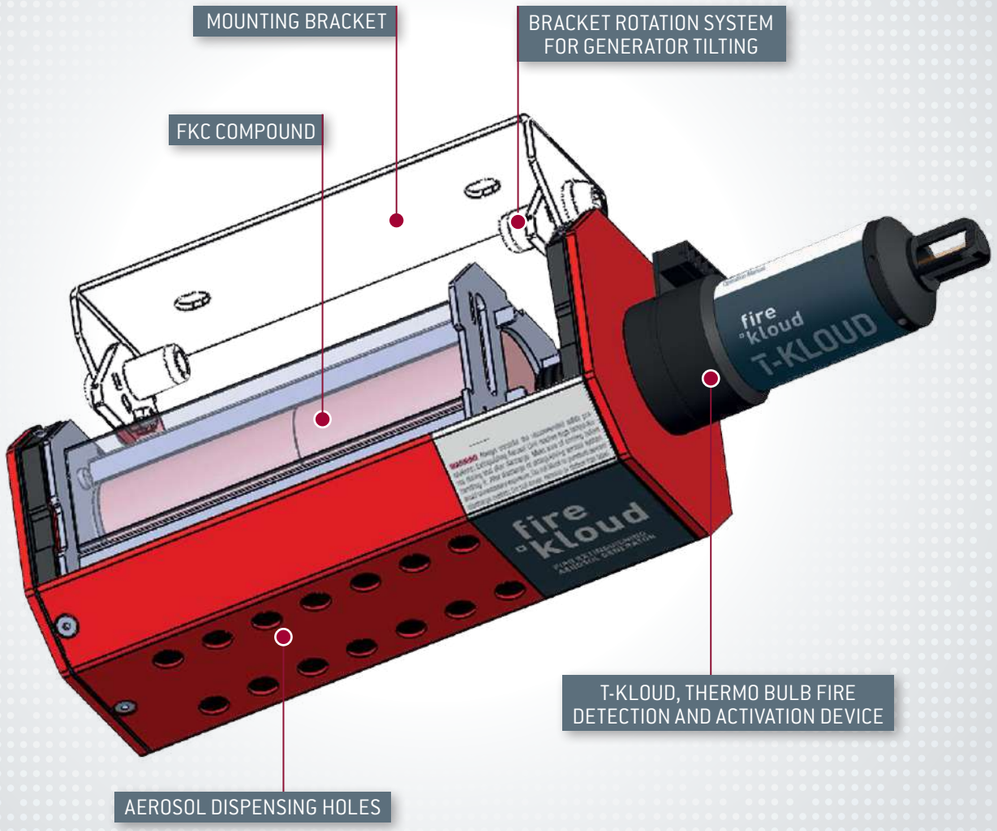
Class C
flammable gases

SUITABLE FOR ELECTRICAL EQUIPMENT





FIRE KLOUD
TECHNOLOGY



COMPACT AND SUITABLE FOR TIGHT SPACES

CERTIFIED 15-YEAR PRODUCT LIFE

DOES NOT DAMAGE OBJECTS AND ENVIRONMENTS

ROBUST AND RELIABLE

MECHANICAL / PHYSICAL COOLING SYSTEM

I AM **REVOLUTION**, I AM **FIRE KLOUD**

Fire Kloud revolutionises the aerosol extinguishing agent market thanks to the adoption, on the whole range of its generators, of an innovative mechanical-physical cooling technology that maximises performance on fire, increasing the efficiency of the FKC solid compound transformation process and returning a clean, dry, non-aggressive aerosol with a particle size down to 0,2 microns.

Fire Kloud is the result of an innovative design and engineering process, aimed at producing aerosol generators with a cutting-edge design, compact and robust, capable of combining extinguishing effectiveness with operating efficiency.

STRENGTHS OF AEROSOL FIRE EXTINGUISHING SYSTEMS

Fire Kloud's aerosol technology systems are designed to be a valuable solution that can also be applied in settings with structural difficulties and very limited space.

Installation is quick and easy, requiring no cylinder assemblies, piping, valves or discharge nozzles, only an electrical connection is required.

DETECTS AND EXTINGUISHES THE FIRE IN FEW SECONDS

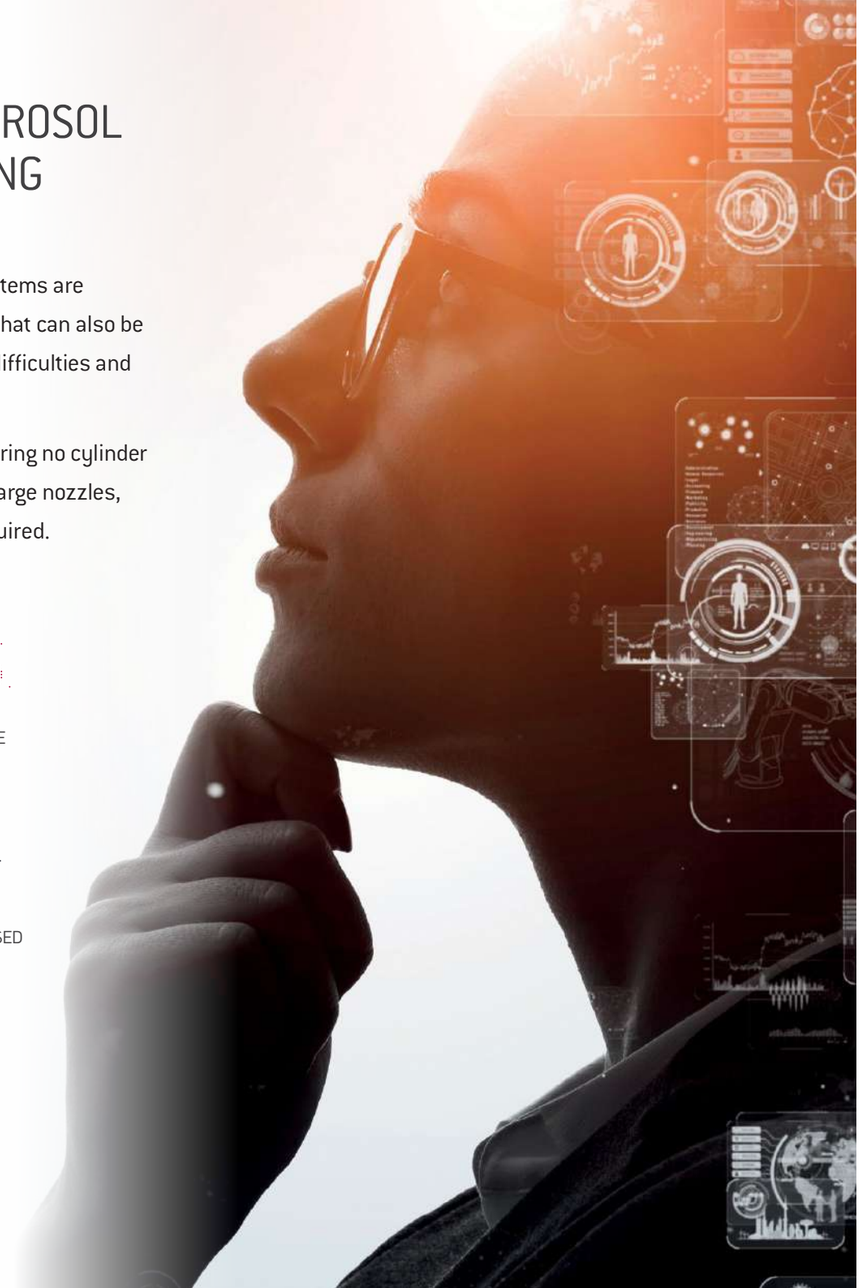
REDUCED MAINTENANCE COSTS

REQUIRES ONLY AN ELECTRICAL CONNECTION

NON-PRESSURISED

DUAL ELECTRICAL AND THERMAL/ MECHANICAL ACTIVATION

TESTED AND CERTIFIED



THE RIGHT PROTECTION **FOR EVERY ENCLOSURE**

Fire Kloud aerosol systems are high-performance, safe and reliable in total flooding protection and object protection in a wide range of applications.

Fire Kloud has been chosen by several companies on the national and international scene for the excellent modularity of the system and the extinguishing efficiency demonstrated in every situation.

CULTURAL HERITAGE
Historical Archives / Historical Libraries / Art Galleries / Museum Areas

INDUSTRY
Storage warehouses / Paint and flammable liquid storage / Plastics and chemical storage / Hydraulic pumping substations / Laboratories and engine test rooms / CNC machinery and production lines

IT AND SECURITY
CED premises / Data Centres / Servers and Control Rooms / Telecommunication Shelters

POWER ENERGY
Electrical Cabins and Substations / Generating Sets / Transformers / UPS and Battery Rooms / Control Rooms / Energy Rooms

PUBLIC ADMINISTRATION AND UTILITIES
Storage depots / Archives and paper depots / Libraries and reading rooms / Technical rooms

ELECTRICAL CABINETS
Electrical Cabinets / Power Centres / Automation Equipment / Motor Control Centres / Battery Cabinets / UPS / Control Panels

RAILWAYS
Traction converter / Auxiliary converter / High-Medium Voltage Cabinets / Battery cabinets / Hydraulic units / Engine rooms

FIRE KLOUD PRODUCTS

Fire Kloud is a complete, modular and flexible range, designed to adapt to different applications. The refined design and customisation in a wide range of colours allows them to be discreetly integrated into any environment.



TOTAL FLOODING PROTECTION

SMALL VOLUMES

Aerosol generators for object and volumetric protection of small spaces, hidden volumes, apparatus and machinery.



MEDIUM VOLUMES

Aerosol generators for object and volumetric protection of medium spaces, hidden volumes and machinery.



LARGE VOLUMES

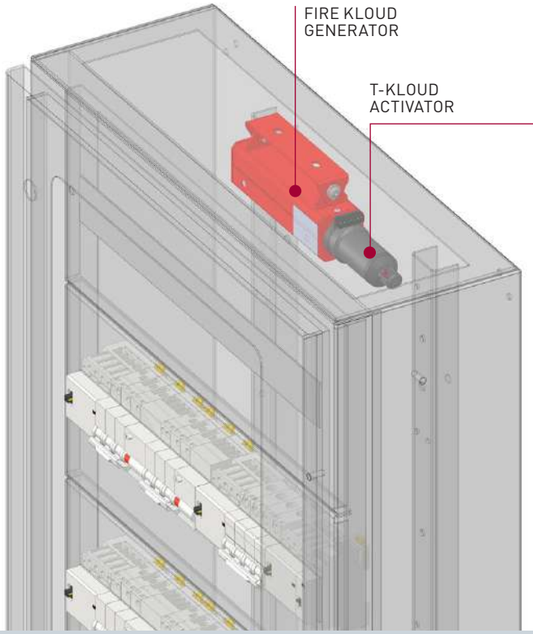
Aerosol generators for the protection of large areas, paper archives, libraries, data center, warehouses and technical rooms.





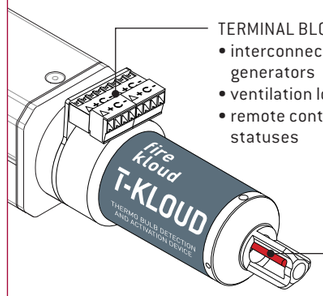
STAND-ALONE PROTECTION

In its stand-alone version, the Fire Kloud system consists of a small aerosol generator with a thermal detection and activation device called T-Kloud. The generator is fixed inside the cabinet without the need for electrical connections, batteries, or complex wiring.



T-KLOUD

THERMO BULB DETECTION AND ACTIVATION DEVICE



TERMINAL BLOCK FOR CONNECTION
- interconnection of multiple aerosol generators
- ventilation lock
- remote control of alarm and fault statuses

THERMO BULB

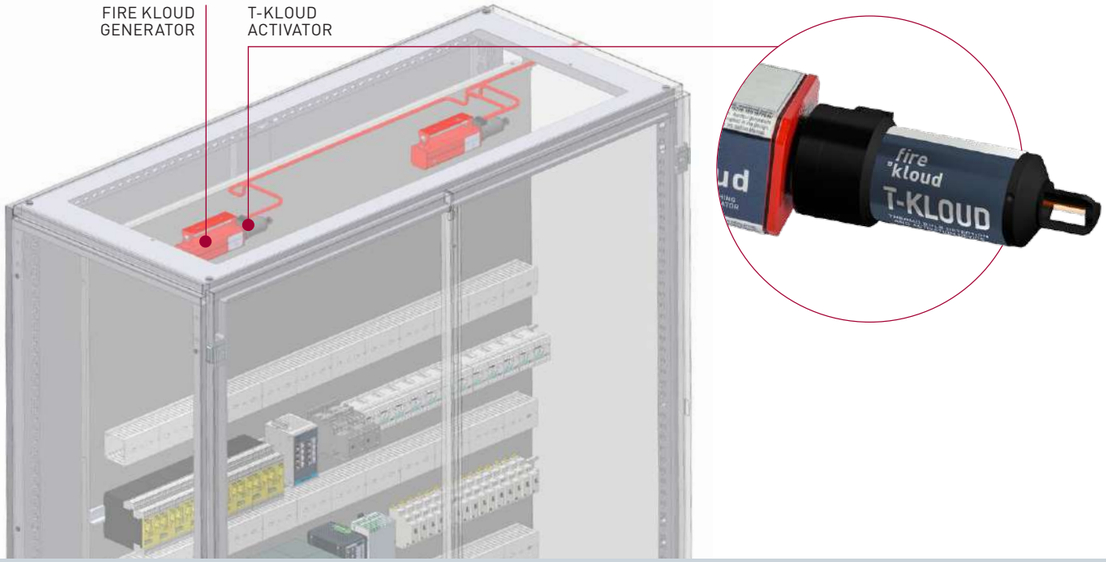
It is secured directly onto Fire Kloud aerosol generators.

It is possible to choose different activation temperatures.

No power supply, batteries, or complex cabling required.

MODULAR STAND-ALONE PROTECTION

The Fire Kloud System for apparatuses with more than one column, in the stand-alone version, consists of multiple Fire Kloud generators equipped with T-Kloud, the thermal detection and activation device. In the event of a fire, the T-Kloud device detects the increase in temperature inside the apparatus and simultaneously activates multiple aerosol generators. Thanks to an integrated connection terminal block, **it can activate up to 8 aerosol generators** with a single, simple cable, supplied for the wiring of each component.





SYSTEM COMPONENTS

The components required for a Fire Kloud aerosol extinguishing system are the extinguishing unit management interface, the line continuity connection box and the test kit.



FIRE FIGHTER

Fire Fighter is a stand-alone fire detection and extinguishing unit for server rack cabinets. Ideal for the modular protection of one or more rack cabinets and/or telecommunications cabinets, the system consists of a Master control and command device and a Slave detection/extinguishing unit.

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UNI EN 15276

ISO 15779

UNI 11565

SIL 3

IEC 61508

15 YEARS

Certified product life

CERTIFIED TECHNOLOGY

Firex is constantly working to ensure that Fire Kloud generators are in line with the most important international standards in the firefighting technology sector.
Fire Kloud is the first and only Italian aerosol system to have obtained a product certification from RINA Services in compliance with UNI EN 15276 and ISO 15779.

The complete range has been tested by accredited laboratories and is certified for a service life of fifteen years. It has passed the required technological and performance tests under the most demanding conditions. **In the transport sector, Fire Kloud has obtained the certification of conformity to the UNI 11565 railway standard.**

The advanced technological level of Fire Kloud generators is guaranteed by the SIL certificate issued by TÜV Austria.

OUR SERVICES

CONSULTATION

We offer a consultancy service designed for each client from the early stages of the project. We support companies in securing their assets and working environments by assessing each source of risk in order to propose the most suitable and complete system.

COMMISSIONING AND TRAINING

Our specialised technicians follow with the maximum care the commissioning of the system and the training of the personnel in its use.

FIRE TEST AND VALIDATION

In our test rooms we carry out and perform fire tests and validation for particular applications or to test compliance with specific regulations.



fire kloud

AEROSOL
REVOLUTION
TECHNOLOGY

DIGITAL
BROCHURE

Fire Kloud is
a brand by FIREX TECNOLOGIE ANTINCENDIO

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MADE IN ITALY

Member of CISQ Federation
RINA
CERTIFIED MANAGEMENT SYSTEM
ISO 9001

Rev. 02 EN