



FIXED EXTINGUISHING SYSTEM

with FM-200® & HFC-125
EXTINGUISHING AGENT

SMALL SPACES

FIRE PROTECTION

CUSTOM AUTOMATIC PROTECTION



Preventing the spread of fire in equipment and industrial vehicles does not always require large, complex and expensive installations. The SIEX™ SMS Small Spaces system allows you to safeguard high-risk assets, acting from inside protected elements.

SIEX™ SMS fixed extinguishing systems for small spaces provide continuous and effective protection, minimizing fire damage. Unfortunately, industrial machinery—engine compartments and many small confined

spaces are highly susceptible to fire and damage involves large losses. The high inherent risk in these applications requires immediate automatic activation to minimize the effects of the fire.

SIEX™ SMS is designed for highly reliable, total fire extinguishing in small volumes.

THE IDEAL SOLUTION FOR SMALL SPACES

The SIEX™ SMS system is an increasingly popular solution for the protection of high-risk equipment thanks to its adaptability and immediate response. Its applications include electrical switchboards because currently they are vital for the continuity of any activity.

It can be very useful for large vehicles which present an ignition risk in small volumes or which are unattended at the time of the fire. Thanks to the small size of the SIEX™ SMS system, it adapts to small enclosures, ensuring the extinguishing of the fire in any adverse circumstances. It's also very simple to install and maintenance.

SIEX™ SMS WORKS USING HALOCARBON GASES.

USERS CAN OPT FOR PROTECTION BY FM-200® OR HFC-125, WHICH OFFER DIFFERENT BENEFITS DEPENDING ON DESIGN CONSTRAINTS.

The extinguishing agent is stored as a liquefied gas in small pressurized cylinders which can be installed anywhere. This cylinder is connected to a very simple distribution network and features a manual release rapid discharge valve connected to a fire detection system.

Its quality is certified by agencies such as VdS, FM (FM-200®) and UL (HFC-125). The design complies with the following global standards and regulations: ISO 14520, UNE 15004 and NFPA 2001.



COMPONENTS



EXTINGUISHING AGENTS

Filled with FM-200® or HFC-125. These agents have much in common as they both belong to the family of halocarbon gases:

- **They are suitable for solid and liquid combustibles and on live electrical fires.**
- **Electrically non-conductive**
- **Leaves no residue**
- **High extinguishing capability**

SIEX offers support for selecting the right agent by analyzing the specific features of the hazard. Both gases work by total flooding, with discharges

within a few seconds after detection. They feature a great safety factor (ISO 14520 / NFPA 2001 / UNE-EN-15004) and require low design levels for the protection of small spaces.

If protection features require that the system be located outdoors or at very low temperatures, the SIEX™ SMS system is advisable because: it performs very reliably in environments with great temperature drops.

CYLINDERS

The extinguishing gas is stored under pressure in small cylinders, with a choice of four different capacities depending on the size of the enclosure to be protected. Thus, SIEX™ SMS can be installed in almost any location and position, inside or outside the room.

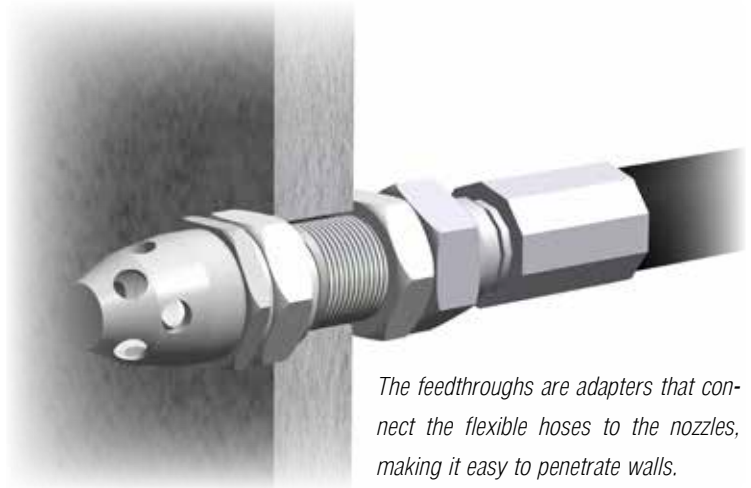
The cylinder has a quick-discharge valve model RGS-MAM-11-4 or RGS-MAM-12-4 featuring manual and electric release, connected to the fire detection network or by mechanical or pneumatic detection and control panel.

The SIEX™ SMS is supplied complete with a pressure gauge or a gauge with electrical contacts, making it easy to quickly check the cylinder pressure. Pressure switches are optional.

In order to simplify installation and adapt it to each enclosure, FLEXIBLE HOSES and FEEDTHROUGH ADAPTERS prove very useful.

NOZZLES

The cylinder is connected to a very simple distribution network which feeds the nozzles directly. The model and size of these nozzles are ideal for small spaces. For this type of protection, in which pipes are outdoors, the recommended nozzles are those that provide a 360° discharge.



The feedthroughs are adapters that connect the flexible hoses to the nozzles, making it easy to penetrate walls.

***SIEX-HC™ units
are adapted to small applications
and extreme conditions.***

HOW IT WORKS



FIRE DETECTION

Fire is detected automatically by electrical, mechanical or pneumatic means. The temperature rise triggers the electrical detectors in the first case, breaks the fusible link in the second case (SIEX TK-SIMPLEX or TK-COMPLEX) or, finally, bursts the pneumatic tube. The signal is then sent to the control panel, which proceeds to activate the equipment.

SYSTEM ACTIVATION

Activation, in turn, can be automatic or manual. If automatic, it is triggered in the fire panel.

If manual, the user pulls the actuator in case of emergency, thus activating the extinguishing system.

HAZARD EXTINGUISHING

Once the nozzles discharge the extinguishing agent, it works by interrupting the chain reaction of the combustion process. In turn, it transfers the physicochemical heat and absorbs heat from the flame and fuel (endothermic break point). It takes a few seconds for the agent to discharge, quickly flooding the protected enclosure and ensuring effective extinguishing.

BENEFITS:

MINIMUM SPACE REQUIRED

Its size allows adapting it to countless enclosures. Cylinders can be mounted vertically and horizontally to optimize the use of protected space.

EASY TO INSTALL

Implementation requires a simple and very convenient installation due to its small size. Implementation and maintenance costs are minimal.

EQUIPMENT INSURANCE

The chemical composition of agents does not react with electrical or electronic components, so there is no risk of corrosion or damage to equipment. Does not leave residue or decomposition product.

UNIT FLEXIBILITY

SIEX™ SMS can work with two different agents, adapting to protection features or customer specifications, ensuring the best extinguishing for each case.

NO RISK FOR PEOPLE

Discharges occur in small, enclosed spaces. The agent poses no hazard for people, even when discharged in great concentrations, since the spaces are normally not occupied and gas dissipates with ventilation after extinguishing.

RAPID EXTINGUISHING

After activation, the system takes less than 10 seconds to completely discharge the agent, extinguishing the fire quickly and thus minimizing damage that may occur and preventing its spread.

APPLICATIONS



ELECTRICAL CABINETS



DPCS



GARBAGE TRUCK



LARGE VEHICLES



INDUSTRIAL MACHINE

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