

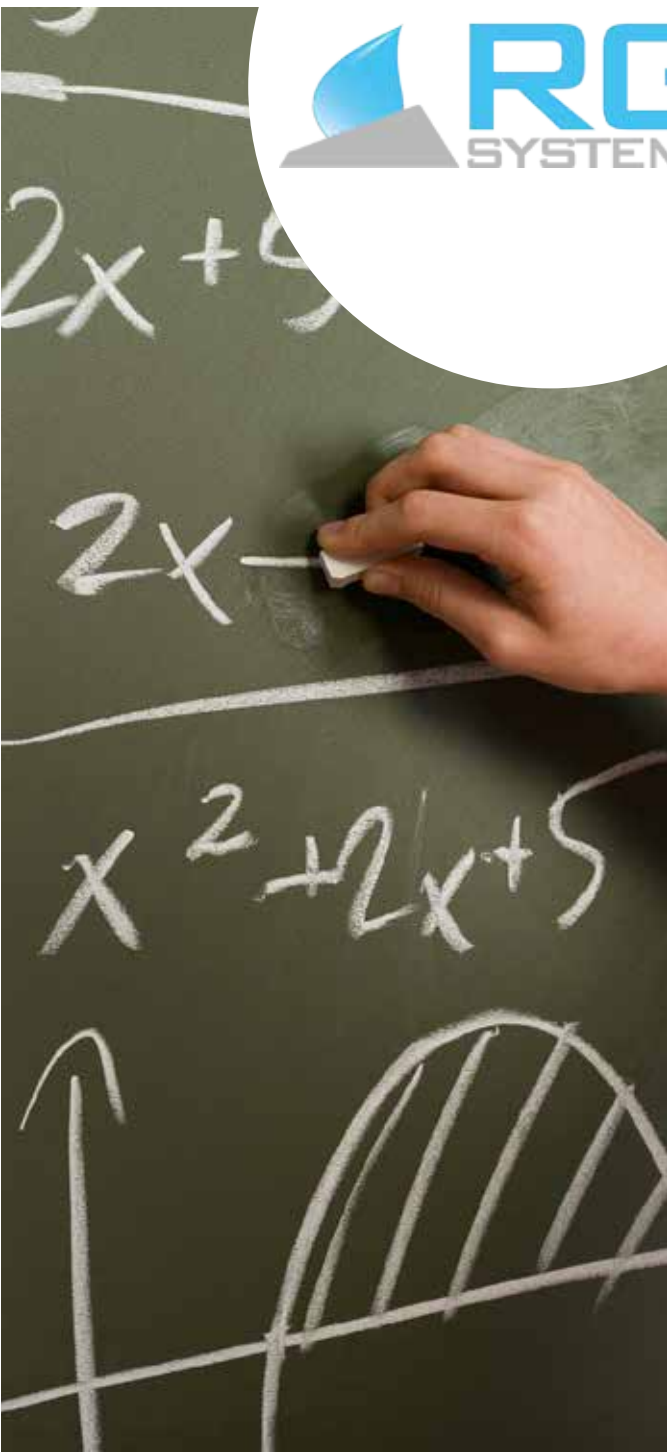
BECAUSE WE BELIEVE IN THE VALUE
OF PROTECTION TO FIT YOUR SPECIFIC NEEDS

THE MOST ADVANCED SECURITY SYSTEMS
FACING THE MOST DELICATE HAZARDS



W-FOG System
for the Protection Of

EDUCATION
CENTERS



WATER MIST

IN EDUCATION CENTERS

Nurseries, colleges and schools of any kind are where safety is taken for granted socially, required to have strict and specific emergency plans.

Being occupied spaces, protecting people is paramount but also because of the limited reactivity, mobility and user decision (infants, children and youth), it is key to take all possible measures on prevention, early detection, extinction and safe evacuation.

Preventive measures are key, as well as proper identification of hazards, given the diversity of associated purposes they may include:

- Classrooms
- Workshops
- Laboratories
- Kitchens
- Offices
- Computer rooms, servers
- Warehouses and storage
- Libraries
- Hallways and locker rooms
- Installations: heating, electricity, air conditioning, etc.



WHY HIRE RG W-FOG FOR EDUCATION CENTERS

RG W-FOG intervenes in three key areas:

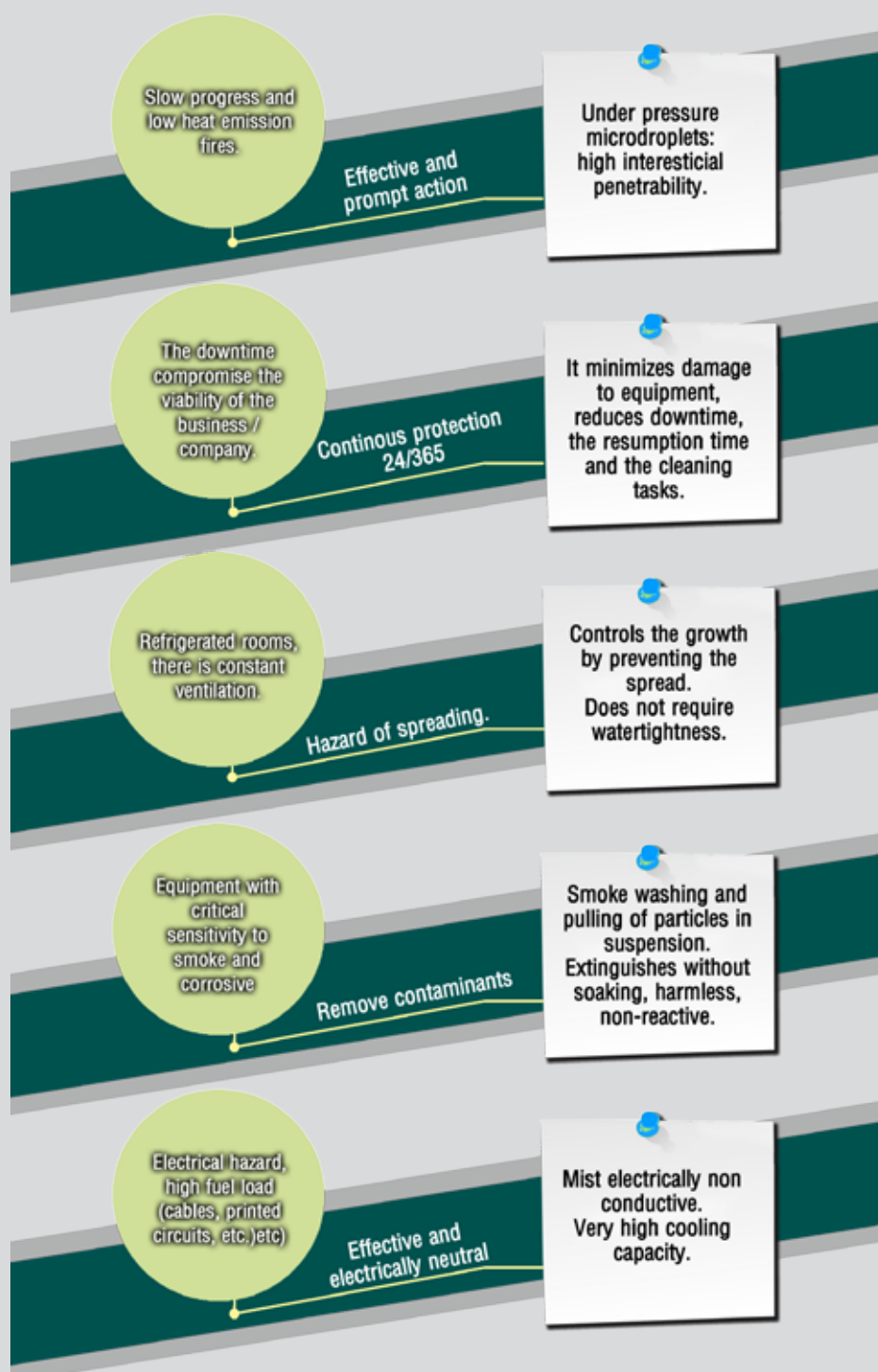
Drastically reduces the release of heat, confining the origin and preventing it from spreading.

Extra time to evacuate students: maintains the safest conditions and more time.

Minimizes the impact of the fire by taking immediate and blunt action.

Numerous studies support its use, as well as the adequacy of our equipment.

Special Features / Requirements / Properties



EQUIPPED FIRE HYDRANTS

For schools, where occupant safety is key, the use of high performance manual equipment is especially suitable. The water mist **FHCS** RG-Systems are specifically designed to provide high efficiency fire extinguishing while at the same time protecting both the operator and the staff during the evacuation.

The hose is easily operated by untrained personnel, and provides the operator substantial protection thanks to the heat and particles blocking effect, while directing most of the flow directly towards the source.



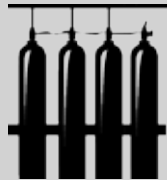
COMPONENTS

PUMPING GROUPS + DEPOSITS



The water is pressurized and is propelled by groups of positive displacement pumps.

CYLINDERS



The propulsion of the water storage cylinder is merged with other nitrogen cylinders to 200 bar / 2900 PSI and 300 bar / 4350 PSI.

OPEN NOZZLES



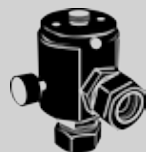
They are used with dry pipe systems for which the activation will be electrical. Usual small hazards where the surface to be protected matches the performance area.

CLOSED NOZZLES



They have a thermal break bulb which only breaks due to heat, releasing the agent on the source of the fire. If the pipe is wet, it can operate without detection.

CONTROL VALVES:



They are used to optimize installation, directing the agent to the affected room. It uses a pre-action system, with double electrical and thermal activation: the detection opens the affected subsystem, and heat breaks the adjacent nozzles bulbs. Avoid false discharge (accidental, vandalism) or by error in detection or broken nozzles.

COMMITMENT

PROJECT

The first phase starts with the design and calculation of needs, according to applicable regulations and full-scale tests.



INSTALLATION

Our technology allows the reduction of diameters and a lighter installation. Technical specifications are provided to facilitate assembly.



MAINTENANCE

RG-Systems offers installation and maintenance manuals as well as spare parts and incident support.



TRAINING

RG-Systems offers courses and technical support documentation to familiarize technical designers and installers with the latest advances in design, regulations and installation.



GUARANTEE AND CERTIFICATION

All products have approvals and declarations of suitability tests according to internationally recognized agencies.



CAUSES OF FIRE IN EDUCATION CENTERS

CLASSROOMS, STUDIES, OFFICES

RISKS:

- Paper and solid fires
- Buildup on raised floors
- Evacuation of numerous occupants

DESIGN:

- Closed nozzles for controlled action on the source
- Vandalism resistant nozzles (as necessary)
- Section valves for identifying the affected sector

COMPUTER ROOMS, SURVEILLANCE, ETC.

RISKS:

- Energized Fires
- Wiring, raised floors, confined or limited access spaces (racks, conduits, etc.)

DESIGN:

- Without cleaning: the fine mist dissipates as it ventilates.
- High permeation, even through coverings and shielding

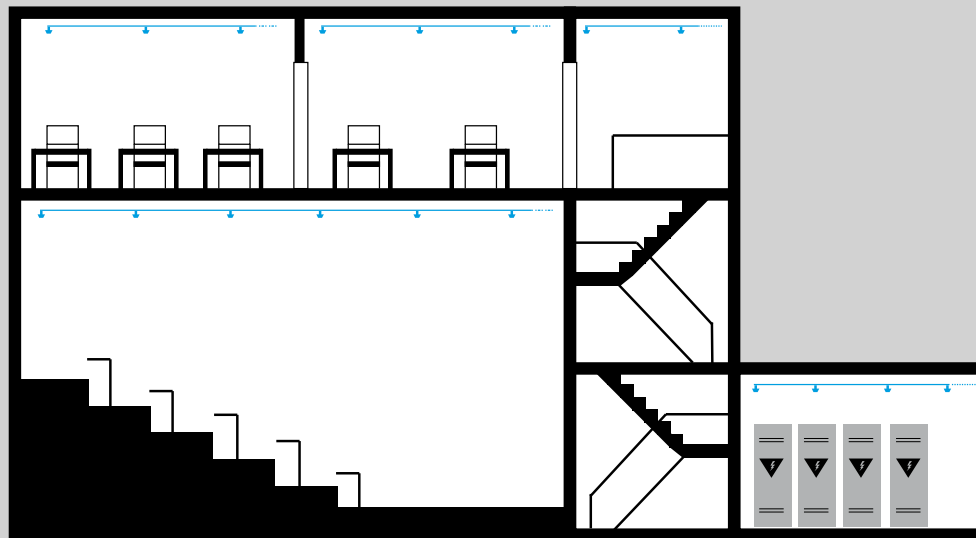
WORKSHOPS AND LABORATORIES

RISKS:

- Accumulation of waste and various products
- Fires of solids, liquids, gases and energized fires
- Vandalism or careless handling of products and tools

DESIGN:

- Versatile action for fires of different kinds
- Reignition prevention
- Does not damage goods, equipment, or machinery



BOILERS, AIR CONDITIONING, ELECTRICAL ROOMS:

RISKS:

- Heat source and smoke
- Spreading through pipes
- Usually unoccupied and poorly maintained

DESIGN:

- Automatic action
- Fume treatment
- Control and suppression: prevent spreading

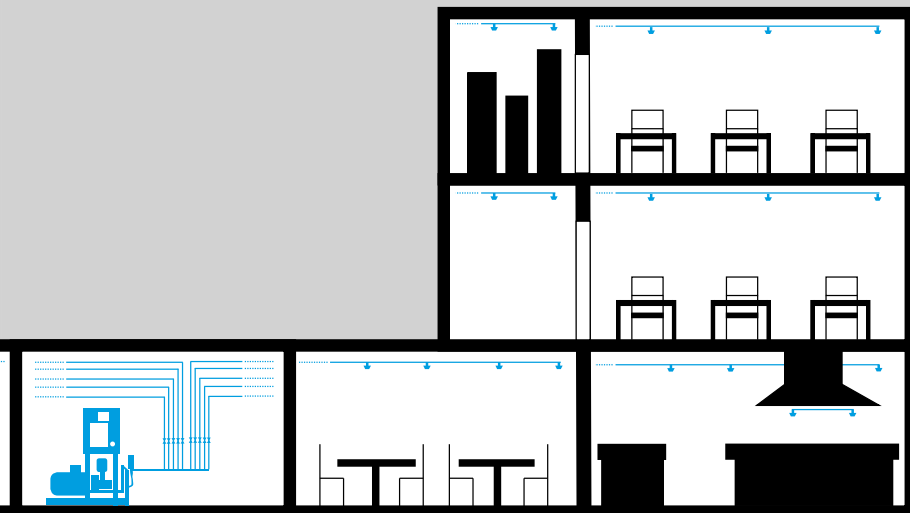
LIBRARY AND FILES

RISKS:

- Paper and solid fires
- Other assets: videos, historical files
- High concentration of fuel

DESIGN:

- Discharging times up to 30 min or higher on demand.
- Closed nozzles with bulbous
- Immediate action: protection of valuable funds.



KITCHENS, CAFES AND EATING AREAS

RISKS:

- Grease and oil fires
- Many sources of fires
- Dense and abundant fumes

DESIGN:

- Rapid action even in large rooms, without waiting for closing or sealing
- Open nozzles: immediate and total action
- Clean and safe agent for food

HALLWAYS, LOCKER ROOMS AND COMMON AREAS

RISKS:

- Agglomerations
- Users with limited mobility and capacities (kids, etc.)

DESIGN:

- Maintain adequate visibility
- Safe evacuation for a longer time
- Avoid situations of panic and confusion



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**THINK
GREEN**