BECAUSE WE BELIEVE IN THE VALUE
OF MEASURED PROTECTION.

THE MOST ADVANCED SYSTEMS FOR
SECURITY AGAINST THE MOST DELICATE HAZARDS

RG W-FOG SYSTEMS

W-FOG System

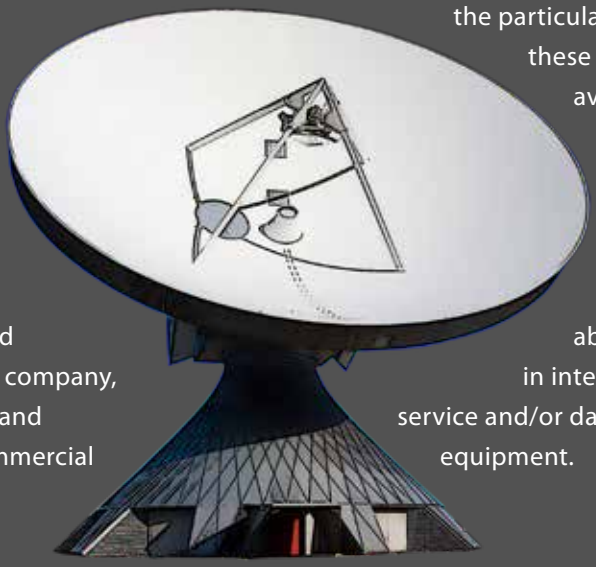
for the protection of

TELECOMMUNICATIONS CENTRES

SPECIAL CENTRES PROTECTION

The development in recent decades of computer technologies and telecommunications has led to numerous installations of variable sizes that, currently, provide key services to companies, institutions and government centres.

In the business sector, the data and communications centre is vital for the operation and continuity of the company, since they cover and maintain the commercial processes. It is, therefore, critical to ensure the ICT installations for the data they house and that permit the daily work.



There are specific guides for the protection of these installations, supporting the use of clean agents. The design will consider the particularities of these installations, avoiding any undetected or adequately controlled source being able to result in interruptions of service and/or damage to the equipment.

WHY USE RG W-FOG

IN TELECOMUNICATION CENTRES

The RG W-FOG water mist systems along with early detection provide clean and efficient action, harmless for the delicate devices and adapted to the specific needs for protection of the telecommunication centres.

Slow progress and low heat emission fires.	Effective and prompt action	Under pressure microdroplets: high interesticial penetrability.
The downtime compromise the viability of the business / company.	Continous protection 24/365	It minimizes damage to equipment, reduces downtime, the resumption time and the cleaning tasks.
Refrigerated rooms, there is constant ventilation.	Hazard of spreading.	Controls the growth by preventing the spread. Does not require watertightness.
Equipment with critical sensitivity to smoke and corrosive	Remove contaminants	Smoke washing and pulling of particles in suspension. Extinguishes without soaking, harmless, non-reactive.
Electrical hazard, high fuel load (cables, printed circuits, etc.)etc)	Effective and electrically neutral	Mist electrically non conductive. Very high cooling capacity.

NEEDS FOR PROTECTION IN TELECOMMUNICATIONS INSTALLATIONS

It deals with a hazard classified as OH1 ordinary whose protection has to be complete from all the sources, beginning with a **sectorised and fire resistant construction** (including false floors and ceilings), **early detection** with alarm, **suppression of the source and smoke elimination**. This includes preparing an emergency plan and another regarding recovery.

The usual installations are: telephone, data, Internet, wireless equipment and video.

The internal hazard factors are linked to electrical and electronic failures (overheating, short circuits, sparks, overloads, etc.), fed by the ventilation equipment.

In turn, **the principal external cause is contagion from other areas**, which can be due, in turn, to the lack of maintenance or to the realisation of work in the nearby areas, transmitted through deficient sectorisation.

It is necessary to consider the protection of:

- **Equipment**
- **Wires**
- **False floors**
- **Power supply areas**
- **Technical support areas**
- **Connected uses (administration, files, etc.)**

FEATURES

RG-Systems guarantees the suitability of its W-FOG equipment with detailed studies and components accredited by international certifying entities of recognised prestige.

The principal advantages compared to other clean agents are based on:

Application:

The water mist does not require waterproofing in the rooms in order to act with guarantees. The response is immediate, without waiting to close hatches or stopping the ventilation.

Cleaning:

It disappears with mere ventilation. What is more, the droplets that do not evaporate clump and settle the suspended corrosive particles, avoiding their being spread and damaging the delicate equipment.

Harmlessness:

the water is atomised and discharged at high pressure to reach the flame, absorb its heat and evaporate rapidly without residue. Furthermore it is not a conductor.

Permanence:

The produced fog that is not evaporated or settled by entraining particles is maintained in colloidal suspension, blocking the radiation and avoiding re-ignition.

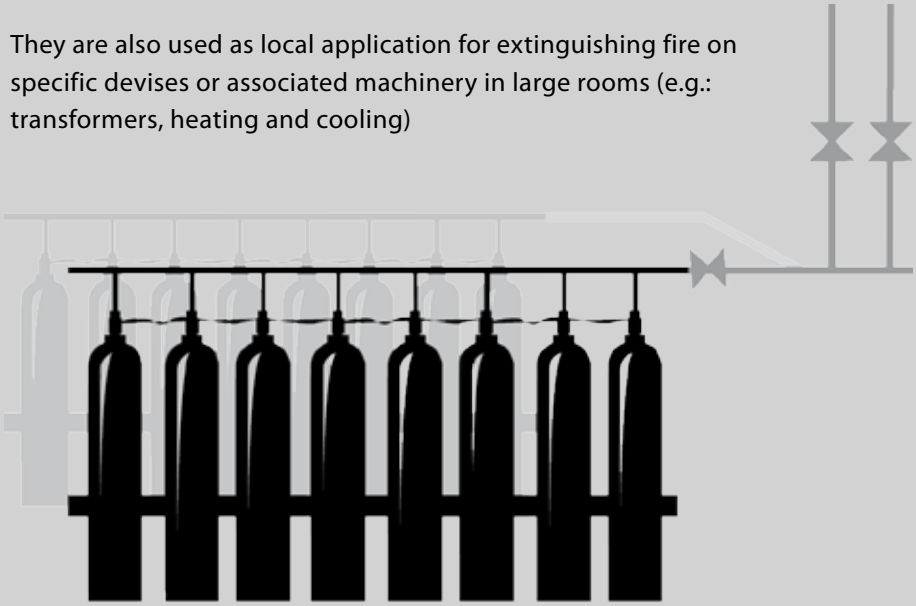
INSTALLATION EXAMPLES

BATTERY OF CYLINDERS

is frequently used, especially for medium-sized rooms. It incorporates the agent of necessary design and includes the propellant (cylinders of pressurised nitrogen). It can be optimised with control valves, several if needed. By sizing according to the most unfavourable hazard and including the pressurisation, they are fully autonomous installations.

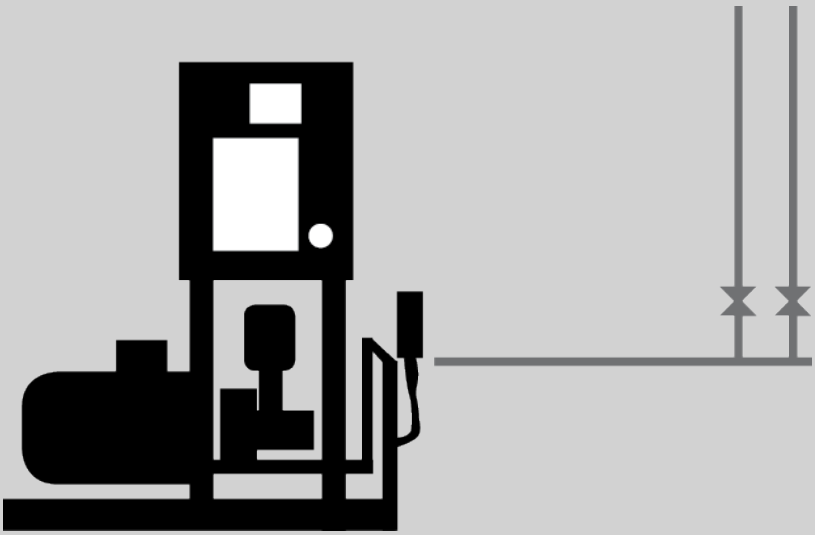
Its use along with open nozzles is optimal for the immediate action on fires of low emissivity: an early detection system that, upon finding particles in the extracted air, would rapidly activate the discharge of the affected area (FLOOD).

They are also used as local application for extinguishing fire on specific devises or associated machinery in large rooms (e.g.: transformers, heating and cooling)



PUMPING UNITS

formed by diesel and/or electric pumps, they are used in large-sized hazards and higher demand of water, or else as centralised equipment with which the entire telecommunications centre is covered.



The system can include open or closed nozzles, and its model will be adapted to the needs for protection in each room (office, machinery, racks, transformers, etc.). If closed, the activation will be thermal through breakage of the calibrated bulb over the affected area (wet pipe and pre-action). They avoid unforeseen or accidental discharges, while their action is more prolonged (30 min), focussed on keeping the fire from growing or extending.

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