

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

THE MOST ADVANCED SECURITY SYSTEMS
FACING THE MOST DELICATE RISKS



W-FOG System
for the protection of

**ROBOTIZED
PARKING**





IMPORTANCE OF ROBOTIZED PARKING STRUCTURES

As a result of the automobile parking global growth and shortage of space, predominantly in the cities, automated parking systems that reduce up to 50% of the surface dedicated to this use have been developed.

The mechanization of the process virtually eliminates maneuvering and circulation spaces, making the most of the available area. Parking can be automatic or semi-automatic and the collection can be dependent or in-

dependent but, in any case, it is carried out with specific machinery that stacks and moves vehicles for a maximum occupancy.

For its operation, the presence of personnel is minimal, limited to maintenance tasks. However, accumulation increases the risk of fire and damage caused by fire are potentially very high and can disable the mechanism, retain the vehicles, damage them, affect the structure of the building, etc.

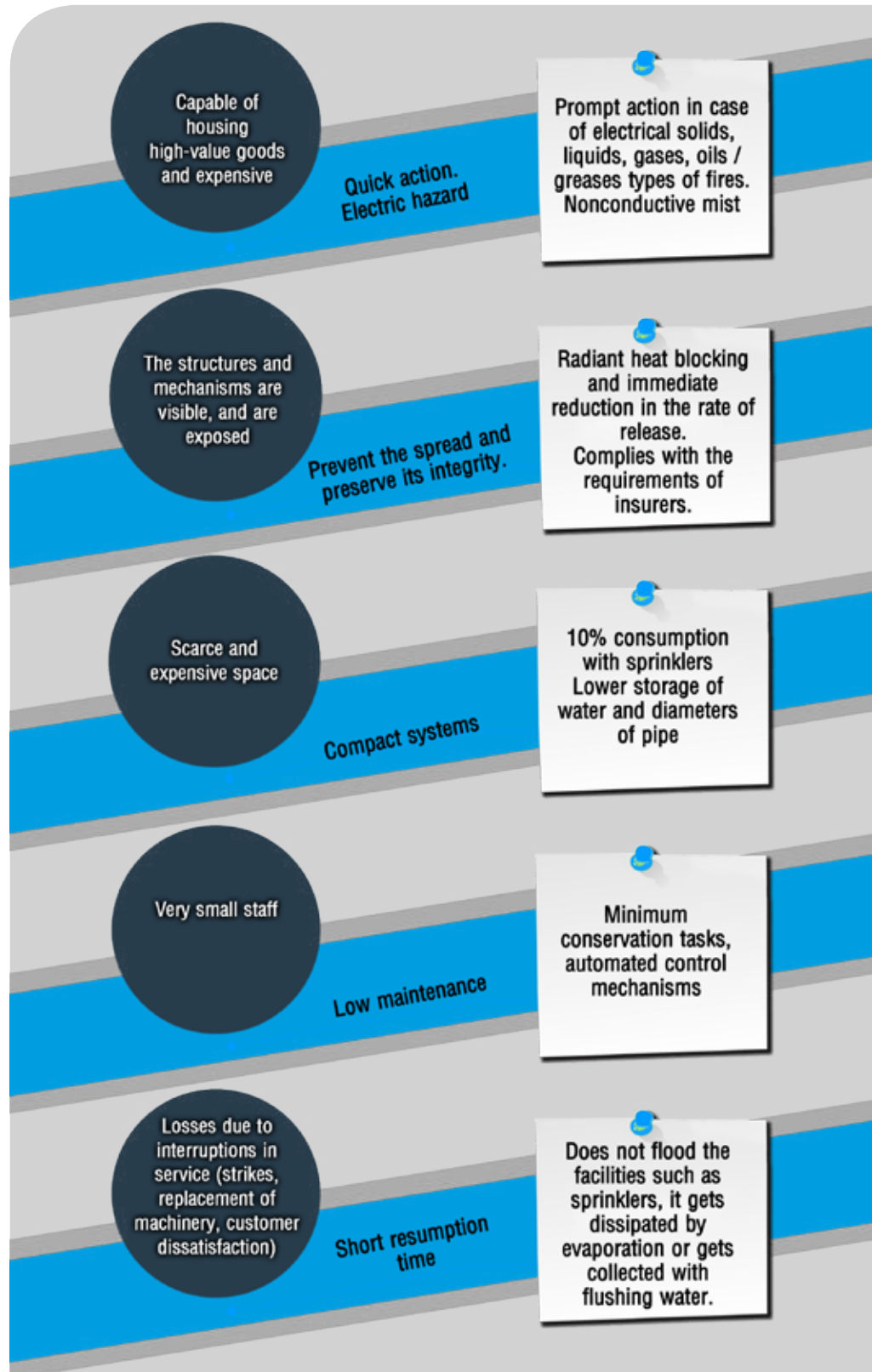


WATER MIST

IN ROBOTIZED PARKING

Due to its nature, the volume of the facility tends to be large to get a return for the machinery, which practically restricts protection options set to water systems

RG W-FOG, BEING AN APPROPRIATE SYSTEM FOR THE PRESENT HAZARD, OF FAST ACTION AND MINIMAL WATER CONSUMPTION, IT PERMITS FULL PROTECTION WITH A COMPACT AND EASY MAINTENANCE INSTALLATION.





FIRE CAUSES

Since it is usually medium to large structures without partitions, it is necessary to prevent the spread of fire. The main fire hazards to focus on are:

GENERAL ELECTRICAL FAULTS

SPARKS, SHORT CIRCUITS, OVERLOADS

STATIC ELECTRICITY

FIRE IN VEHICLES

SABOTAGE

OVERHEATING OF MECHANICAL

COMPONENTS OR HYDRAULIC

DUST AND GREASE ACCUMULATION

MAINTENANCE WORK

SPREAD FROM OTHER AREAS

OIL SPILL, FUELS AND LUBRICANTS

The action will focus on cooling the structure to maintain its integrity, and the protection of vehicles, preventing the fire from growing or spreading.

It is necessary to pay special attention to the design of the moving parts, machinery and structural elements, to prevent interference between systems.

COMPONENTS

PUMPING GROUPS:

supplies the necessary flow during the discharge.

DEPOSITS:

much lower than in sprinkler systems, thanks to optimized water use. They include filling systems.

CLOSED NOZZLES:

with a bulb broken in the heat of the fire, enabling direct action only on the source of the fire.

SECTION VALVES:

detect the passage of the water, alerting the sector in which the discharge is occurring within a larger network.

PROTECTION OBJECTIVES

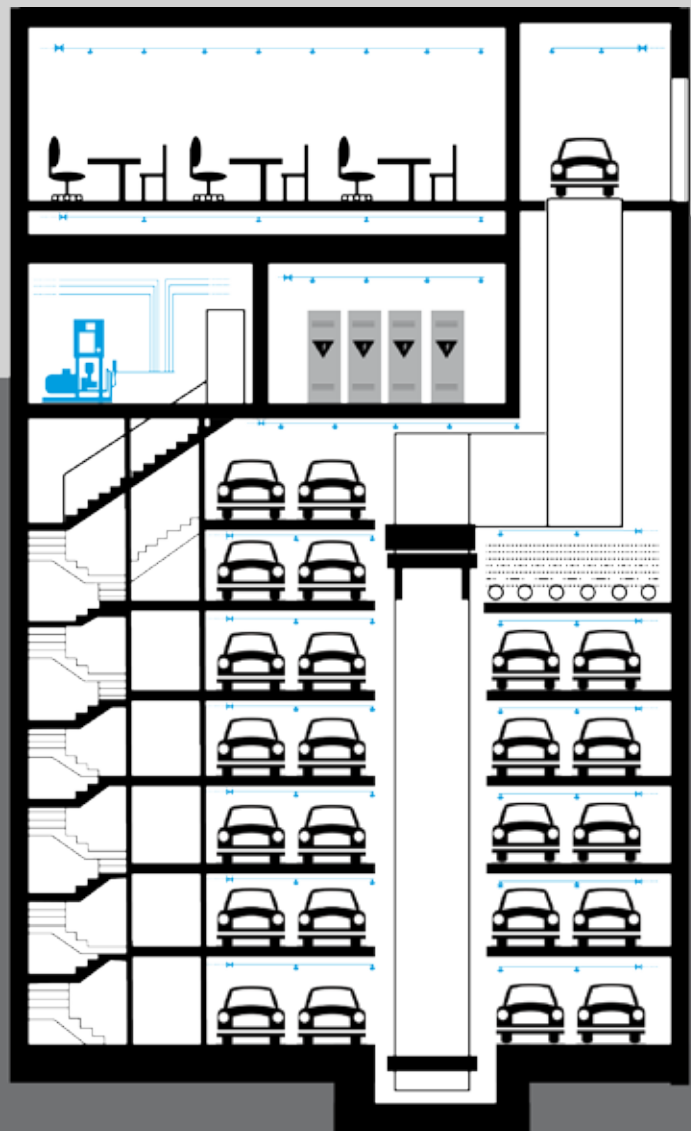
- CONTROL OR SUPPRESS THE FIRE IN THE AFFECTED AREAS
- PREVENT THE SPREAD WHICH COULD DAMAGE ADJACENT VEHICLES OR MACHINERY
- SWEEP SMOKE AND SUSPENDED PARTICLES
- CONTROLLING THE SOURCE UNTIL THE ARRIVAL OF THE FIRE FIGHTING DEPARTMENT IF NECESSARY
- ALLOW SAFE EVACUATION OF PRESENT PERSONNEL (EMPLOYEES AND MAINTENANCE CREW)

INSTALLATION EXAMPLE

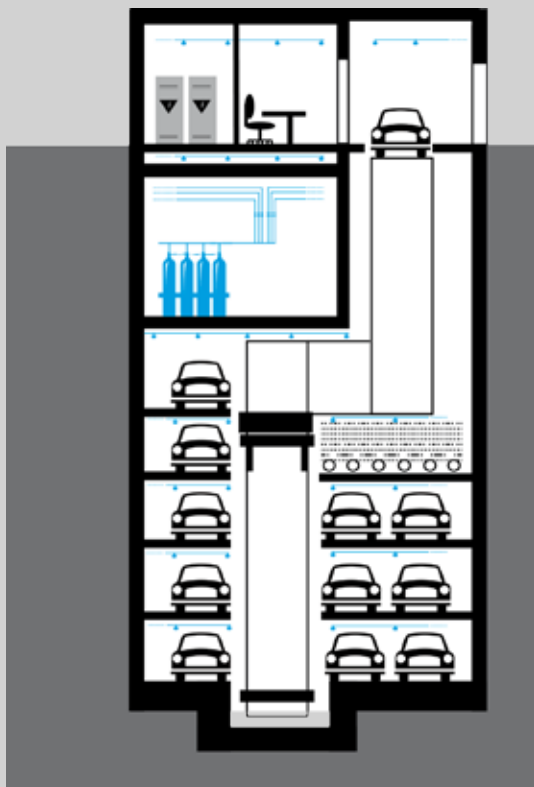
LARGE PARKING STRUCTURE

The fire fighting installation in this case is carried out with a wet pipe system and closed nozzles. One type is comprised of:

- *Pumping group with jockey pump to maintain a pressurized network*
- *Water tank, with filter and filling system*
- *Wet plumbing*
- *Closed Nozzles*



SMALL PARKING STRUCTURES



As a complementary means to protect robotized parking, RG-Systems has fire hydrants equipped with a water spray lance, which facilitates the fire control without damaging the complex vehicle moving machinery. Available with different hose lengths, it effectively combats fires of solids, liquid fuels or lubricants, among others. It also facilitates the operator's maneuverings by directing some of the nebulizing jets around him, blocking the radiant heat and toxic fumes.

Delivery of the agent can occur through the same pumping group of the building's water mist system or by self-pressurized cylinder batteries with manual activation.

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**THINK
GREEN**