

GAS PROTECTION SYSTEMS

An automatic extinguisher gas system stops fire at an early stage and eliminates any risk of fire reignition.



A gas system protects enclosed areas and works by totally flooding the area, with the exception of with CO₂ which can protect an object by local application.

Different gas agents can be used :

- ✓ inert (IG01, IG100, IG341, IG541, IG55) found in the atmosphere
- ✓ carbon dioxide
- ✓ inhibitor (chemical gases – HFC227ea, FK 5-1-12, HFC23)

How does it work ?

No matter which type of gas is used, the concentration of the extinguishing agent is maintained above a minimum for the required time. This concentration is variable depending on the risks and nature of the extinguishing agent.

An automatic extinguisher gas system is made of four parts :

- ✓ elements for fire detection (fire detection system)
- ✓ elements for fire extinction (storage and emission)
- ✓ elements for gas diffusion
- ✓ elements for evacuation signs

What happens during a fire :

- ✓ inert gases and CO2 act by smothering. They decrease oxygen content by around 12% to 13% in general.
- ✓ in some cases, CO2 discharge could also help cooling.
- ✓ inhibitor gases work to counteract the chemical reaction mechanisms that produce a flame.

When is it used ?

Low or high pressure CO2 :

- ✓ gas turbines, engine test benches, alternators, generators, oil cellars, rolling mills, paint/spray booths, electrical rooms, printing : press, rotary printing, archives.

Inert and inhibitor gases :

- ✓ electrical rooms, computer rooms, data centers, specific premises in laboratories, archives.

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