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Benefits of Aerosol Technology

No Use of Water

Aerosol extinguishing devices operate with a solid compound that is discharged as a dry aerosol mist into the area upon activation. There is therefore no extinguishing water that can damage your equipment, warehouse or stored goods. Moreover, there is no polluted extinguishing water to damage the environment.

Steady oxygen levels

Aerosol does not enter into a reaction with oxygen and does not displace any oxygen. The oxygen level will therefore be maintained. The area is safe for humans and animals before, during and after activation, so there is no immediate danger should any staff be unable to leave the area due to an accident. Aerosol is therefore much safer than technologies resulting in a reduced oxygen level or the absence of oxygen altogether.

Compact and lightweight

Aerosol is compact and this technology offers a tremendous economy of space. The subsequent monetary savings are not limited to savings with shipping and transport over other types of fire suppression.

Simple installation

Aerosol systems do not need mains water, reservoirs or storage tanks. Protected spaces do not need to be air-tight, and there is no need for pressure-relief vent systems. Next to these installation advantages, aerosol units are easy to demount should your company move, renovate or change the purpose of the protected area.

Long service life

Aerosol generators are based on a solid compound. By consequence the service life stated for aerosol is usually 10 years, which is in accordance with most international regulations (product life is 15 years). Given normal climatic circumstances, which is usually the case in protected areas, and regular maintenance, there are few things that affect the system's performance.



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Suitable for source protection

Most fires start small and unnoticed and are therefore discovered too late. Aerosol extinguishing systems are able to put out fire directly at the seat, because it does not need water or pressurised gas systems. On top of that the extinguishing generators can be equipped with thermal switches so that they can be installed as stand-alone units, i.e., without any control panel and automatic detection, which is ideal for small spaces/cabinets.

No pressurized system or storage

The aerosol contains a *Solid Bound Compound*. Upon activation this solid compound is converted into a cloud of solid nanoparticles. A slight overpressure develops inside the container upon conversion, so that the cloud can be discharged into the protected area and mix with the air rapidly. The pressure build-up in the protected area is however negligible, even when there is a large number of extinguishing generators.

Fail-safe

Aerosol generators' electric control enables activation by all current fire detection and alarm systems. In addition, our generators can be thermally activated with the bimetal switch. Most importantly however, even in the absence of a (working) detection system the *Solid Bound Compound* will be activated as soon as a fire causes its temperature to rise above 300°C.

Lowest TCO

Aerosol has compared to other technologies lower investment cost. This is due to the absence of piping, pressure relief vents and cylinder storage which all require construction costs, plus savings with a reduced maintenance regime. Compared to other systems, the costs for system renovation or adaptation if the purpose of the protected space has been changed, are negligible.