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FIRE SUPPRESSION SYSTEM BASED ON ENVIRONMENT FRIENDLY- DRY SPRINKLER POWDER AEROSOL (DSPA)

Traditional fire extinguishing systems affects the environment, depletes the oxygen and creates damage to property.

Dry Sprinkler Powder Aerosol (DSPA) Fire Suppression System is innovative & green way to suppress fires. This innovative and patented technology is the ultimate Halon replacement (BCF), providing the greatest margin of safety and sustainability on the market today and brings to you products which feature simplicity, lower installation cost and flexibility

DSPA - Dry Sprinkler Powder Aerosol has been developed to replace Halon (BCF). Dry Sprinkler Powder Aerosol (DSPA) works volumetrically just like halon and affects the combustion process.

When the DSPA is activated thermally or electrically, the combustion occurs and specific reaction takes place between potassium compounds and the fragments of instable molecules in a rapid succession till such time that stable potassium hydroxide is formed at which time the flame is extinguished.

Fire Detection & Suppression System



Above diagram shows the schematic of the whole system. Aerosol is released as soon as one of the sensors is activated. One can connect various types of detectors for Smoke, Heat, Flame, Flammable gases etc. The Fire Suppression system monitors the status of the sensors and activates output devices like Sounder, Suppression agent etc.

The biggest advantage of DSPA is the fact that it is environment friendly and keeps the oxygen content in the room intact. The DSPA Fire Suppression System is engineered to be safe for people, products and the environment. It is sustainable and will never be subjected to global regulations pertaining to green house gases and does not damage movable and immovable property. DSPA is maintenance free, light weight, compact and does not require any water storage. It is non-conductive, non-corrosive, is maintenance free, light weight, compact and does not require any water storage. It is much cost effective i.e. complete installation is almost 1/3rd of that of any other gaseous suppression systems.

It can be applied for A, B, C and F type fires. DSPA is manufactured in accordance with ISO 9001:2000 standards and is certified by UL/ULC, RINA, ISO, BRE, TNO, NFPA 2010.

Stored as a solid compound but expelled as an aerosol, DSPA is ideal for special hazard applications in different industries such as Information Technology, Telecommunications, Machinery compartments, Banking as well as marine facilities, museums, libraries and the military. It protects valuables and critical assets without harming any inhabitants or contents. DSPA offers an additional layer of flexibility that it can be directly mounted on the ceiling or the wall in the room that it needs to protect as opposed to being piped in from a central storage area. Thus for selective rooms and spaces, DSPA can be a more adaptable and cost effective solution.

DSPA has been prevalent in Europe and North America from more than a decade. Thousands of installations are existent in these locations with zero failure rate.

DSPA has application at many places like Internet Data Centers, Computer Server Rooms, Transformer Rooms, Electrical Motors, Alternators, Distribution Panels, Inverters, Battery Chargers, Paint Booths, Banks, Currency Chests, Film Archives, Museums, Libraries, Record Rooms etc.

One can see the functioning of the above system by vising following link on the Youtube.

<http://www.youtube.com/watch?v=YkrHkOGyWm8>

Electrical Transformer Room



Electrical Distribution Panel



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