applications









PyroGen wide range is suitable for a variety of installations including:

- **Computer Room**
- **Electrical Substation**
- **Generator Room**
- Raised Floor
- Server Farm
- Warehouse
- **Telecommunication Cabin**
- Control Room
- **CNC** machine
- Computer Server Rack

transport vehicle



telecommunication

Extinguishing Action



Stage 1

Fire propagates by chain reaction via "chain carriers"O, H &OH.



Stage 2

Pyrogen aerosol introduces potassium radicals (K) into the flame chain reaction







Stage 3

K radicals attach themselves to O, H & OH and remove them from the flame chain reaction without depleting oxygen Thus the fire is extinguished chemically

Combustion within the Pyrogen generator

Canister heated ≥ 300 C



Electrical signal from control panel (Manual / Automatic

Methods of actuation

Coolant absorbs heat



Fire fighting aerosol is rapidly generated by combustion of aerosol forming element

Aerosol generated

3-dimensional gas like properties. Holding times of up to 60 minutes.



Aerosol distributed

Pyrogen is an aerosol fire-extinguishing agent. The principle extinguishing action employed by Pyrogen is unique - a special solid chemical, when electrically ignited, produces combustion products - micron-sized dry chemical particles and gas. Dry chemical particles (mainly potassium carbonate), and gaseous mixture (mainly carbon dioxide, nitrogen and water vapor), mix together into a uniform fire extinguishing aerosol. Before being released into a protected area, the aerosol propels itself through a unique physical coolant, which absorbs and re-distributes heat, thus ensuring flameless discharge and uniform distribution of the aerosol within the area.

The high rate of aerosol discharge ensures tremendous knockdown effect. Micron-sized aerosol particles exhibit gas-like three dimensional qualities that allow the agent to rapidly distribute throughout the enclosure and reach even the most concealed and shielded locations. Homogeneous distribution is achieved in a matter of seconds, while long holding times help to prevent fire re-ignition.



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