Aerosol Technology Offers Effective Fire Suppression for
Server Rooms and Other Applications

Protect Electronic Equipment, Media, and Personnel with a Safe, 21st Century Cost-Effective Solution

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Aero-K® is a fairly new fire suppression product to North American markets and are both Underwriters Laboratories and Underwriters Laboratories of Canada Tested and Listed. The Aero-K® agent is potassium-based, environmentally-friendly (100% Green), non-toxic, and non-conductive. Aero-K® Systems are used in enclosed spaces such as computer/server rooms, telecommunications sites, electrical utility facilities, electronic enclosures, CNC machinery enclosures, the oil and gas industry, wind turbines, hazmat storage containers/facilities, mining industry, automotive industry plus the military and government facilities (GSA Contract #GS-07F-0462V). This 21st Century Aerosol Technology retro fits into existing spaces requiring little to no structural modifications. Peripheral Manufacturing, Inc. is the exclusive supplier of the Aero-K® brand name.

A Common Scenario:

You may be tasked with identifying a system to protect your server room, NOC or other application from the risk of fire. There are a number of considerations when deciding on a system, including operation, cost, space requirements and maintenance.

The newest development in fire suppression is an *aerosol extinguishing technology*. This technology provides a dramatic advancement in fire protection over Halon, carbon dioxide, dry chemical and water based systems. Among numerous benefits, aerosols are:

- Safe for facility personnel

- 100% green, environmentally friendly

- Non-toxic and non-corrosive

- Able to extinguish a fire within one minute of detection with minimal clean-up

- The most cost-effective fire suppression systems available

- Our Aero-K® manufacture is ISO 2001:2008 certified

What is Aerosol Fire Suppression?

Aero-K® is a patented design which incorporates a unique potassium-based aerosol using pyrotechnic-based chemistry. When a fire is detected Aero-K® generators, installed around the perimeter of a protected area, are activated either manually or electrically from a suitable UL listed releasing control panel.

In the event of a fire, Aero-K® generators rapidly discharge an exceptionally effective, ultra-fine potassium-based aerosol, creating a fog of suspended particles which in turn extinguishes fire within seconds. The aerosol agent can remain suspended in the area for up to 60 minutes, virtually eliminating any possibility of reignition. The aerosol leaves very little residue which requires minimal clean up by simply venting the room then lightly dusting all surfaces.

Aerosol Systems Compared to Sprinklers

Water sprinklers can damage your critical hardware more than a fire situation itself. Water can ruin expensive electronics, essential data and magnetic media can be lost. However, Aero-K® systems are often used to complement sprinkler systems. An Aero-K® system utilizes smoke detection/activation not heat activation like wet sprinkler systems. Within one minute of smoke detection an Aero-K® system will have, in a very proactive manner, taken care of a fire situation long before a ceiling sprinkler valve can reach the standard activation temperature of 155° F. When an Aero-K® system is activated, your equipment stays dry and safe.

Maintenance of an Aerosol System

Aero-K® systems require Semi-Annual Inspections performed by a trained company that deals with these types of fire hazards. Generators have a 10+ year shelf life and are replaceable, not rechargeable or refillable.

Unlike gaseous systems, which operate under pressure, aerosol generators are cost effective to install and maintain especially when space and weight requirements are a concern. Aero-K® generators that discharge the aerosol agent are available in a variety of sizes to accommodate your environment. Aero-K® aerosol generators are small enough to mount on the walls of your facility at ceiling height so that valuable floor space is not lost.

Eliminate High Fire Suppression Costs

Aero-K® is much less expensive to install and maintain than most other systems. Small generators are mounted around the area to be protected. Generators are electrically connected to a small control panel and are only pressurized during activation.

Aero-K® generators are under warranty for 18 months from date of installation. If your facility possibly relocates and or expands, this fire suppression system can be easily removed, reconfigured for the newly sized space, and then reinstalled.

Lower Insurance Costs with an Automatic Fire Suppression System

If your protected area doesn't currently have a fire suppression system, consider the insurance cost savings. Insurance companies may offer rate reductions that may save your company 10%-15% by installing an Aero-K® fire suppression system.

Let Our Fire Suppression Experts Assist You

Our company has expertise in the design and installation of aerosol fire suppression systems. As aerosol becomes more widely adopted by IT and telecom professionals, it's an option you may consider. Allow our company to design a cost-effective fire suppression system for your protected area.

Don't overlook the newest type of fire suppression system on the market today. Aero-K® systems are designed to be compact, easily relocated to new facilities as needed, and adaptable to expanding and/or contracting protected areas. Aerosol represents a great advancement in the fire suppression industry. For more information and or to receive a proposal designed specifically for your application, please contact our company at:

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