



# AERO-K™ FIRE SUPPRESSION AEROSOL GENERATORS

PATENTS PENDING

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## Features

- *Highly effective extinguishing agent*
- *Significantly more effective than alternative agents*
- *Non-toxic*
- *Non-corrosive*
- *Ease of installation – does not require pressure vessels, piping, or expensive installation manpower*
- *Environmentally friendly. Ozone depletion potential (ODP) = 0*
- *Suitable for enclosed facilities and local spaces*
- *Low maintenance*
- *Suitable for Class A, B, C fire hazards*
- *Will not harm electronic equipment or magnetic tape*
- *Aerosol suspends in air – easily vented after discharge*
- *Compact – up to a 90% reduction in space and weight requirements*

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## Applications

Due to their fast response time, low fire extinguishing concentration, and environmental safety, Aero-K™ aerosol generators may be widely used in critical applications across a wide range of industries. Aerosol generators are currently protecting and are suitable for use in:

- Telecommunications facilities
- Process control rooms
- Marine engine rooms and machinery spaces
- High value mobile equipment
- General industrial hazards
- Data processing facilities
- Storage vaults
- Flammable liquid storage areas
- Turbine enclosures
- Power plants
- Warehouses
- Small boats
- Aircraft engines

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## Operation / Description

Upon detection of a fire, the Aero-K™ generator can be activated either manually or electrically from a suitable detection device. Each generator also contains an internal heat activated mechanism for fail safe activation in the event of an electrical outage. The generator produces an exceptionally effective, ultra-fine, potassium based aerosol. Unlike gaseous systems which operate at pressure, aerosol generators are very cost effective to install and maintain. They do not require the pressure vessels, piping or expensive installation costs associated with other extinguishing systems. Space and weight requirements are minimal.

On an agent weight basis, the aerosol is ten times as effective as the current generation of halon replacement agents. The Aero-K™ generator's effectiveness is a function of its patented design, aerosol composition, and ultra-fine particle size. Extinguishment is primarily achieved through interference between the ultra-fine aerosol particulate and the flame's free radicals terminating propagation of the fire.

Aero-K™ generators are virtually maintenance free and have a shelf life of over 15 years. Coupled to the very low installation cost, this makes them an extremely cost effective fire protection solution.

**Aero-K™**  
**FIRE SUPPRESSION AEROSOL GENERATORS**  
**SPECIFICATIONS**

Parameter	G-100	G-250	G-500	G-1000	G-1500	G-2500
Volume Protected Class B (m <sup>3</sup> )*	2.0	5.0	10.0	20.0	30.0	50.0
Extinguisher Charge (g)	100	250	500	1000	1500	2500
Length (mm)	125	160	185	185	210	190
Diameter (mm)	70	125	125	170	170	230
Thermal Activation	145° C	145° C	145° C	145° C	145° C	145° C
Operation Time (sec.)	6.0	6.0	12.0	12.0	17.0	15.0
Initiation Current (Amp)	1.2	1.2	1.2	1.2	1.2	1.2
Pulse Duration (milli-sec.)	2	2	2	2	2	2

Manufactured under license from R-Amtech International, Inc.

\*at 50g/m<sup>3</sup>

Composition: alkaline metal nitrates, organic combustible binder

Fire Extinguishing Concentration of Aerosol\*

Includes 20% safety factor

Class A Surface Fires	90g/m <sup>3</sup>
Class B Flammable Liquids	50g/m <sup>3</sup>
Class C Electrical	70g/m <sup>3</sup>

Operation/Storage Conditions:

Temperature

Relative Humidity

-65° C – +80° C

up to 100% at +35° C

Generator classification:

- Class 4; sub-class 4.1;
- Classification Code 4111;
- UN Serial No. 1325

Fire Combat reserves the right to alter specifications without prior notice.

**FireCombat**  
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Fire Combat also specializes in custom units to meet unique and OEM fire protection requirements. Call our 800 number to discuss your specific requirements with one of our fire protection professionals.