



MICRO-K™

SOLID AEROSOL TECHNOLOGY

FIRE PROTECTION FOR THE NEW MILLENNIUM

- *ENGINE COMPARTMENTS IN PLEASURE CRAFT, WORK BOATS, MILITARY VEHICLES*
- *CELLULAR SITES*
- *SWITCHGEAR ROOMS*
- *FLAMMABLE LIQUID STORAGE ROOMS*
- *SAFETY STORAGE BUILDINGS*
- *PAINT CABINETS*
- *MACHINERY SPACES*
- *TRANSFORMER ROOMS*
- *HYDRAULIC PUMP PACKS*
- *INDUSTRIAL SOLVENT DEGREASERS*
- *MANY OTHER UNOCCUPIED HAZARDS*



ROCKET SCIENCE meets FIRE TECHNOLOGY

The technology behind aerosol fire extinguishing agents was first developed by the aerospace industry in an effort to solve fire problems in the vicinity of the launch pad. Today, after years of research, development, and testing; Ansul has successfully harnessed the extinguishing power of this new agent for a variety of applications. The result: MICRO-K™ Aerosol-Generating Fire Suppression Systems from ANSUL.

MICRO-K™ AEROSOL GENERATION

MICRO-K agent is stored in solid form inside a triple-chamber steel housing called a "generator." Depending on the type of generator selected, a mechanical or electrical actuation device is factory-imbedded in the MICRO-K agent. With the mechanical device, a cable is connected which actuates the device using a pull or spring force. An electrical device is actuated with electrical current from a control panel.

The actuation device starts a reaction to generate a gaseous product that quickly condenses into particles that are smaller than that of dry chemical. This particulate aerosol escapes from the generator where it easily mixes with the air throughout the hazard area. Similar to 'Purple-K' dry chemical, the aerosol particles break the combustion chain reaction thereby extinguishing the fire.

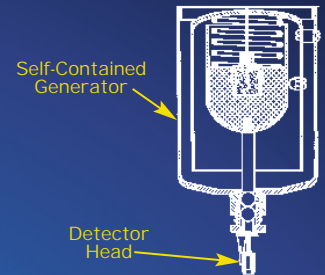
THE MICRO-K™ ADVANTAGE

- Just 50 to 100 grams of agent protect a space of one cubic meter
- No pressure vessels or distribution piping required
- Will not generate toxic or corrosive products of decomposition
- Zero ozone depletion potential - zero global warming potential
- Flexible actuation methods: mechanical or electrical, automatic or manual
- Wide temperature range: -40 to +54°C
- ULC Listed.
(System Style Generators)

PROTECTION OPTIONS

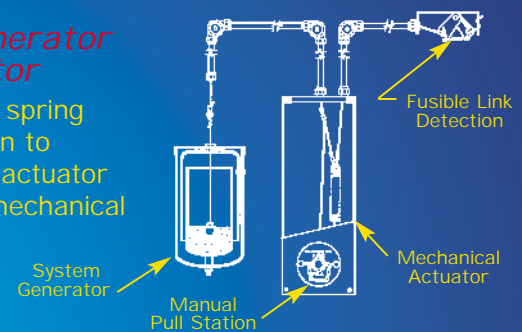
Self-Contained Generator

Designed for small hazards, the self-contained generator features an integral detector head connected to a spring-loaded actuation mechanism. When the temperature of the detector bulb is reached, the bulb breaks, allowing the internal spring to place tension on the actuation cable.



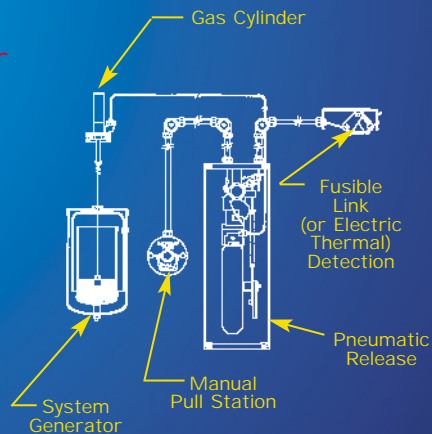
Mechanical System Generator with Mechanical Actuator

The mechanical actuator uses spring tension or a manual pull station to operate the generator(s). The actuator operates automatically using mechanical fusible link detectors.



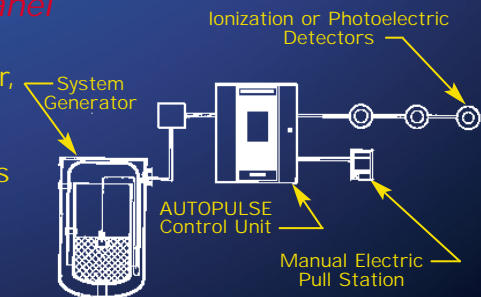
Mechanical System Generator with Pneumatic Release

ANSUL AUTOMAN® mechanical or electric releases operate with either fusible link or thermal detectors respectively. Upon actuation, a gas cartridge seal is punctured; in turn, pneumatically operating the gas cylinders connected to the generators. A cable pull station can also be connected to the release providing manual actuation.



Electric System Generator with Electronic Control Panel

Responding to a signal from an ionization or photoelectric detector, the AUTOPULSE® 442R control panel will actuate an electric generator(s). Auxiliary components are also available such as alarms, strobes, and manual electric pull stations.





Generator Size (Agent Weight)	0.6 kg
Volume of Protection/Generator (Class B:C Fires)	5.6 m ³
Maximum Generators per Hazard	1
Actuation Options	Automatic Only
Detector Temperature Ratings	57, 68, 79, 93, 141, 182 °C



Generator Size (Agent Weight)	0.6 kg	1.1 kg
Volume Protected/Generator (Class B:C Fires)	4.7 m ³	9.4 m ³
Maximum Generators per Hazard	2 operate simultaneously	
Discharge Options	Standard or Pressure	
Actuation Options	Automatic or Manual	
Fusible Link Detector Temperature Ratings	74, 100, 138, 182, 232, 260 °C	



Generator Size (Agent Weight)	0.6 kg	1.1 kg
Volume Protected/Generator (Class B:C Fires)	4.7 m ³	9.4 m ³
Maximum Generators per Hazard	10 operate simultaneously	
Discharge Options	Standard or Pressure	
Actuation Options	Automatic or Manual	
Fusible Link Detector Temperature Ratings	74, 100, 138, 182, 232, 260 °C	
Electric Thermal Detector Temperature Ratings	66, 88, 107, 163, 232, 316, 371 °C	



Generator Size (Agent Weight)	0.6 kg	1.1 kg
Volume Protected/Generator (Class B:C Fires)	4.7 m ³	9.4 m ³
Maximum Generators per Hazard	10 operate simultaneously	
Discharge Options	Standard or pressure	
Actuation Options	Automatic or Manual	
Detection Options	Ionization or Photoelectric	

STANDARD AND PRESSURE GENERATOR OPTIONS

The Standard Generator is mounted inside the protected area and discharges through the top opening. The Pressure Generator is mounted outside the hazard area with the agent discharging into the area through a wall penetration. The outer shell contains an outlet port with a burst disc assembly which allows pressure to build before discharging.



MOUNTING OPTIONS

All generators can be mounted using the Band/Unistrut Style Brackets. The Standard 1.1-kg System Generator can also use the Clamp-Style Bracket.



ANSUL INCORPORATED

ONE STANTON STREET
MARINETTE, WI USA
54143-2542

Phone: 1(715)735-7411

Fax: 1(715)732-3479

www.ansul.com

tyco

Tyco Suppression
Systems

ANSUL

ISO 9001 REGISTERED