

Mini Aerosol Fire Extinguishing Device (Mini Aerosol Fire Suppression Generators)



APPLICATIONS:

The range of Mini aerosol products is wide and versatile to suit any application. Due to their fast response time, low fire extinguishing concentration, and environmental safety, Mini 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/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
- Any others



NEW S type

NON-TOXIC NON-CORROSIVE

OPERATION/DESCRIPTION

Upon detection of a fire, The Mini Aerosol generators can be activated either manually or electrically from a suitable detection device, the generator produces an exceptionally effective, ultra-fine, strontium-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 above ten times as effective as the current generation of halon replacement agents. The Mini Aerosol generators' 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.

Mini Aerosol generators are virtually maintenance free and have a shelf life of over 10 years. Coupled to the very low installation cost, this makes them an extremely cost-effective fire protection solution.

Technology data

Extinguishing Dose: 5700Grams	Actual Extinguishing Efficiency: $\leq 100\text{g/m}^3$
Protective Volume(m^3): 57	Vent and People Safe Distance: 1.5m
Discharge Time(S): 38	Fire Fighting Safe Distance: 0.3m
Product Size(mm): $\Phi 219 \times 345$	Useful Life: 10 years
Equipment Weight(kg): 20.00	Maximum Safety Current: $\leq 150\text{mA}/5\text{mins}$
Extinguishing Time: $\leq 60\text{S}$	Fire Suppression Type: A, B, C, E
Spout Temperature: $\leq 200^\circ\text{C}$ (5mm Position)	Many Sets of Connection: Series
Shall Surface Temperature: $\leq 100^\circ\text{C}$	Installation Bracket: U Bracket
Working Temperature: $-40^\circ\text{C} \sim +70^\circ\text{C}$	Working Humidity: $\leq 95\%$
Start Voltage: DC3~24v/AC3~220V	Minimum Start Current: $\geq 250\text{mA}/5\text{mS}$

RoHS



International quality management system certification



Fire protection association member

PICC

PICC P & C underwriting

CE

CE certified

Model No.: AW-QH-5700E

Features:

- Highly effective extinguishing agent.
- Significantly more effective than alternative agents.
- Non-toxic.
- Non-corrosive.
- Easy of installation-does not require vessels, piping, or expensive installation manpower.
- Environmentally friendly. Ozone Depletion Potential (ODP)=0, Global Warming Potential (GWP)=0
- Suitable for enclosed facilities and local spaces.
- Low maintenance
- Suitable for Class A, B, C, E fire hazard.
- Will not harm electronic equipment or magnetic tape.
- Compact-up to a 90% reduction in space and weight requirements.



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Fire extinguishing systems overall comprehensive performance reference chart

Type Performance		Aware	Aware	1301	IG541	FM200	CO2
		New S type aerosol system	S type aerosol	Halon	Mixed inert gas	HFC227ea	Carbon dioxide
Destruction of ozone (ODP Value)		0	0	16	0	0	0
Greenhouse effect potential (GWP Value)		0	0	5800	0	2050	1
Toxicity	NOAEL(%V/V)	No	Safe under once concentration of fire extinguisher	5	43	9	Difficult to breath when 1/5 concentration of fire extinguisher
	LOAEL(%V/V)	No	Safe under 3 times concentration of fire extinguisher	7.5	52	10.5	Suffocation when 1/2 concentration of fire extinguisher
Minimum usage(g/m3)		100	130	330	920	626	1000
Life in atmosphere (year)		0	0	65	0	31	0
Fire fighting efficiency		Faster	Fast	Fastest	Slow	Fast	Slowest
Stored pressure (Mpa)		Normal pressure	Normal pressure	2.5/4.2	15-20	2.5/4.2	Low-pressure 2 ~ 2.3 High-pressure 3.4 ~ 1.5
Work pressure (Mpa)		Normal pressure	Normal pressure	2.5/4.2	15	2.5	Low-pressure ≥2.3 High-pressure ≥15
Unit area rate (%)		0.4	0.6	2	10	3	6
Starting method		1.Electronic trigger 2.Thermal line start 3.Temperature start	Electronic trigger	Use N2 Start-up (or electronic start-up)			
System structure		No piping, no pressure container and valve	No piping, no pressure container and valve	Special steel cyclinder, piping, pressure container and valve			
Installation,usage, maintenance and management		No pipe network systems:easy to install,no leak,less maintenance and lowest cost	No pipe network systems:easy to install,no leak,less maintenance and low cost	Piping system: (1)Large installation work (2)Request high storing condition and no leak (3)Often check the storing pressure of the steel cylinder,much maintains work (4)High cost of inventure and maintenance			

Comparasion of fire extinguishing concentration

