

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:

Suitable environment

- The construction industry
- The petrochemical industry
- The communications industry • The transportation industry
- The electric power industry
- The other industry
- The metallurgy industry



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

Elixir weight (g) : 100	Start voltage : DC3~24 V/AC3~220V
Protective volume (m ³) :1	Minimum starting current: ≥250mA/5mS
Discharge time (s) :15	Maximum safety current: ≤150mA/5min
Product size (mm) : φ76 125	Vent and people safe distance: 1.5m
Equipment weight (kg) :0.94	Fire fighting jet and objects safe distance : 0.3m
Extinguishing time: ≤30s	Many set of connection : series
Spout temperature: ≤200°C (5mm position)	Use life : 10 years
Shall surface temperature ≤100°C	Fire suppression type: A B C
Actual extinguishing efficiency: ≤100g/m ³	Installing bracket: L bracket

RoHS



International quality management system certification



Fire protection association member

PICC

PICC P & C underwriting

CE

CE certified

Model No.: AW-QH-100E



Features:

- Highly effective extinguishing agent.
- Significantly more effective than alternative agents.
- Non-toxic.
- Non-corrosive.
- Ease 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.



Aware
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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

