

# TECHNICAL DATA SHEET

CODE:	VARIOUS
DESCRIPTION:	STAT-X ELECTRICAL GENERATORS
CATEGORY:	STAT-X FIRE SUPPRESSION SYSTEMS
REVISION DATE:	04 SEPTEMBER 2020

## PRODUCT DESCRIPTION:

Stat-X Fixed System Electrical Units are electrically actuated and range in size from units containing 30 grams (covering up to 0.5 m<sup>3</sup>) up to 2500 grams (covering up to 40 m<sup>3</sup>). These units are typically tied to conventional fire detection systems and releasing panel.



## PRODUCT FEATURES:

- Significantly more effective than alternative extinguishing agents
- Zero ozone depletion, zero atmospheric life, and insignificant global warming potential
- Ease of installation — no pressure vessels, piping, or expensive installation manpower
- Very low maintenance
- Provides reliable, cost effective protection for a wide range of fire hazards
- Listed for Class A, B, C fires by UL, ULC, CSIRO, ECB, and many others
- Favourably reviewed by EPA for SNAP listing
- Suitable for enclosed facilities and local applications
- Safe for personnel — non-harmful to personnel at design application rates
- Safe for valuable equipment — will not harm electronic equipment or magnetic media
- Post fire cleanup is minimal — aerosol suspends in air for quick and easy venting after discharge
- Compact — up to a 90% reduction in space and weight requirements



**AUSTRALIA WIDE FIRE SUPPLIES ABN 80393915621 UNIT 5/54 PENDLEBURY RD CARDIFF NSW 2285**

**P:(+61) 02 49540333 E: sales@awfs.com.au W: www.awfs.com.au**

## AVAILABLE IN FOLLOWING SIZES:

Contact AWFS for more details and specifications required for your application.

STAT-X ELECTRIC GENERATORS			
	CODE	DESCRIPTION	KG AEROSOL MASS
	S129984	STAT-X 30 E ELECTRIC GENERATOR	0.03
	S129985L	STAT-X 60E LONG ELECTRIC GENERATOR	0.06
	S129986	STAT-X 100E ELECTRIC GENERATOR	0.10
	S129987	STAT-X 250E ELECTRIC GENERATOR	0.25
	S129988	STAT-X 500E ELECTRIC GENERATOR	0.50
	S129989	STAT-X 1000 ELECTRIC GENERATOR	1.00
	S129990	STAT-X 1500 ELECTRIC GENERATOR	1.50
	S129991	STAT-X 2500 ELECTRIC GENERATOR	2.00

## APPLICATIONS:

Due to their fast response time, low fire extinguishing concentration, and environmental safety, Stat-X fire suppression systems may be 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
- PABX rooms
- High value mobile equipment
- Cellular sites & relay towers
- Data processing facilities
- Flammable liquid storage areas
- Turbine & generator enclosures
- Machine engine rooms & machinery spaces
- Power plants
- Mining vehicles used under ground
- General industrial hazards
- Protective and military specialized vehicles



## OPERATION / DESCRIPTION:

Upon detection of a fire, Stat-X generators can be activated either manually or automatically from a suitable listed releasing device. All auxiliary system components (release panel, detection, remote pull stations, etc.) are listed/ approved by UL, ULC, FM, New York City MEA, and California State Fire Marshall.

Upon activation, the generators produce an exceptionally effective, ultra-fine, potassium based aerosol. Unlike gaseous systems, Stat-X aerosol generators are very cost effective to install and maintain — as 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, Stat-X aerosol is ten times more effective than gaseous agent alternatives.



## OPERATION / DESCRIPTION Continued:

The Stat-X generator's effectiveness is a function of its patented design, aerosol composition, and ultra-fine particle size. Fire suppression is rapidly achieved through interference between the ultra-fine aerosol particulate and the flame's free radicals — terminating propagation of the fire.

Stat-X aerosol generators are virtually maintenance free and have a service life of over 10 years. This, coupled to their very low installation cost, makes them an extremely cost effective fire protection solution

## SPECIFICATIONS:

**Agent Container:** The generator housing shall be constructed of exterior and interior stainless steel shells separated by an insulating material. Top and bottom of housing shall be stainless steel and (for electrically activated units) incorporate a 3/4" NPT fitting to enable direct connection to conduit. Housing shall be sealed with a non-permeable membrane and shall incorporate a mechanical means to insure rupture of the membrane upon activation. Housing shall be non-pressurized prior to system activation.

**Finish:** Brushed Stainless Steel. Units shall have passed salt spray corrosion testing per UL Standard 2127 as part of their listing.

**Aerosol Agent:** Aerosol generated shall be potassium based and manufacturer shall provide fifteen (15) minute time weighted average data from an independent United States laboratory demonstrating that the aerosol does not produce (at normal design concentrations harmful levels of CO, CO<sub>2</sub>, and NO<sub>x</sub> based on NIOSH standards. Shall have no ozone depletion potential and no global warming potential. Agent shall be approved for commercial sale by the US EPA.

**Listing:** Aerosol generators shall be listed by Underwriter's Laboratories of Canada to UL Standard 2127 or equivalent.

**System:** Extinguishing system shall be accomplished by means of distributed generating devices to insure distribution of extinguishing aerosol throughout the protected volume. Devices shall be capable of being supervised.

**Mounting:** Generator devices shall be mounted by means of stainless steel bracketing that allows for directional adjustment through both vertical and horizontal plane.

## Operation/Storage Parameters:

- Temperature -40° C to +54° C (-40° F to +130° F)
- Relative Humidity up to 98% at +35° C (+95° F)

## Transportation Classification:

- Classification Code: 4.1
- UN Identification #: UN 3178
- Packaging Group: PGIII
- Shipping Limitations:
  - Ground: None
  - Max. weight per unit packaging — Cargo Air 100 kgs (220 lbs)
  - Max. weight per unit packaging — Passenger Air 25 kgs (55 lbs)



## GENERAL SPECIFICATION:

Model	30 E	60 E	60 E	100 E	250 E	500 E	1000 E	1500 E	2500 E
Aerosol Mass: grams	30	60	60	100	250	500	1000	1500	2500
Weight: kg (lbs)	.371 (.818)	.486 (1.08)	.561 (1.24)	.910 (2.0)	2.54 (5.61)	3.42 (7.54)	7.16 (15.8)	8.57 (18.9)	11.33 (25.0)
Length: mm (inches)	109 (4.29)	130 (5.12)	155 (6.10)	121 (4.76)	150 (5.90)	180 (7.09)	170 (6.70)	203 (7.99)	267 (10.51)
Diameter: mm (inches)	51 (2.0)	51 (2.0)	51 (2.0)	76 (3.0)	127 (5.0)	127 (5.0)	203 (8.0)	203 (8.0)	203 (8.0)
Discharge Time: (sec)	7.0	10.0	10.0	12.0	12.0	23.0	16.0	23.0	36.0
Initiation Current (Amp)	Parallel	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Series	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Pulse Duration (millisecond)	50	50	50	50	50	50	50	50	50
Max. Supervisory Current (Amp)	≤ .005	≤ .005	≤ .005	≤ .005	≤ .005	≤ .005	≤ .005	≤ .005	≤ .005

