

# TECHNICAL DATA SHEET

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

## PRODUCT DESCRIPTION:

Stat-X Fixed System Thermal Units are stand alone units incorporating their own patented detection mechanism, eliminating the need for separate detection and releasing controls. Suitable for a broad range of applications in smaller enclosures, they are available in sizes ranging from 30 grams (covering up to 0.5 m3) up to 500 grams (covering up to 8 m3).



## 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
- No power required — activates thermally or manually
- Favourably reviewed by EPA for SNAP listing
- Approved by CSIRO, ECB, MCA, ABS and many more
- 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




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## AVAILABLE IN THE FOLLOWING SIZES:



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

### STAT-X MANUAL OR THERMAL ACTIVATION GENERATORS

	CODE	DESCRIPTION	KG AEROSOL MASS
	S129997	STAT-X 30 T THERMAL or MANUAL GENERATOR	0.03
	S129998L	STAT-X 60 T LONG THERMAL or MANUAL GENERATOR	0.06
	S129999	STAT-X 100 T THERMAL or MANUAL GENERATOR	0.10
	S130000	STAT-X 250 T THERMAL or MANUAL GENERATOR	0.25
	S130000L	STAT-X 250 T LONG THERMAL or MANUAL GENERATOR	0.25
	S130001	STAT-X 500 T THERMAL or MANUAL GENERATOR	0.50
	S140000	STAT-X 1000 M T THERMAL or MANUAL GENERATOR	1.00

## AVAILABLE THERMAL OR MANUAL ACTUATORS:

### STAT-X MANUAL OR THERMAL ACTUATORS

	S132161	STAT-X HEAD THERMAL/MANUAL 70C BRASS <b>HORIZONTAL</b> PULL
	S132162	STAT-X HEAD THERMAL/MANUAL 70C BRASS <b>VERTICAL</b> PULL
	S132163	STAT-X HEAD THERMAL/MANUAL 95C BRASS <b>HORIZONTAL</b> PULL
	S132164	STAT-X HEAD THERMAL/MANUAL 95C BRASS <b>VERTICAL</b> PULL
	S132165	STAT-X HEAD THERMAL/MANUAL 123C BRASS <b>HORIZONTAL</b> PULL
	S132166	STAT-X HEAD THERMAL/MANUAL 123C BRASS <b>VERTICAL</b> PULL
	S130006	STAT-X 316 STAINLESS STEEL <b>MANUAL ONLY VERTICAL</b> PULL
	S130007	STAT-X 316 STAINLESS STEEL <b>MANUAL ONLY HORIZONTAL</b> PULL

## 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 suitable for use in:

- Electronic cabinets
- Switchgear enclosures
- Data processing equipment
- Printing equipment
- Flammable liquid storage
- Hazmat storage
- Marine engine rooms and machinery spaces
- Small boats
- High value mobile equipment



## OPERATION / DESCRIPTION:

In the event of a fire, Stat-X generators can be activated either manually or automatically via the integrated thermal detector.

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 and, in many applications, the small size of the Stat-X aerosol generators makes them the only viable option. On an agent weight basis, Stat-X aerosol is ten times more effective than gaseous agent alternatives.

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 shelf 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.

**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.

### Operation/Storage Parameters:

- Temperature -0° C to +54° C (+32° 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 SPECIFICATIONS:

Model	30 T	60 T (long)	100 T	250 T	250 MT	500 T	1000 MT
Aerosol Mass: grams	30	60	100	250	250	500	1000
Weight: kg (lbs)	.3 (.66)	.49 (1.1)	.827 (1.82)	2.48 (5.47)	1.28 (2.83)	3.43 (7.56)	5.54 (12.20)
Length (with actuator): mm (inches)	109 (4.30)	155 (6.10)	152 (6.00)	168 (6.60)	202 (7.95)	218 (8.60)	333 (13.10)
Diameter: mm (inches)	51 (2.00)	51 (2.00)	76 (3.00)	127 (5.00)	76 (3.00)	127 (5.00)	127 (5.00)
Discharge Time:(sec)	8.0	8.5	11.5	12.0	18.0	21.0	25.0

Activation Temperature Options	70°C (158°F)	95°C (203°F)	123°C (254°F)
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