Stat-X® Aerosol Fire Suppression

Electric Generator

Owner's Manual

Version 1.2.4
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P/N 19001

Fireaway Inc. 5852 Baker Road Minnetonka, MN 55345

INTRODUCTION

Thank you for your purchase of a Stat-X® aerosol fire suppression product. This brief manual is designed to provide you with a general understanding of the product, as well as, general information on installation, operational, and maintenance parameters. It is not a detailed Design, Installation, Operation, and Maintenance Manual. A detailed manual may be obtained by contacting the manufacturer:

Fireaway Inc.
5852 Baker Road
Minnetonka, MN 55345
U.S.A.
www.statx.com

Stat-X systems and generators are to be installed and periodically inspected by trained personnel ONLY. No modifications are to be made to the installed system without consulting a qualified system designer. The system is made up of units tested within limitations contained in the detailed Design, Installation, Operation, and Maintenance Manual. The system designer must be consulted whenever changes are planned for the system or the protected area. An authorized installer or system designer must be consulted after the system has discharged.

SYSTEM DESCRIPTION

General

Stat-X systems combine an environmentally safe fire suppression agent, specially developed components, and fire detection devices for rapid agent application. The resulting timely suppression of fire may reduce property, facility, and equipment damage. These systems are electrically activated, are compact, and eliminate expensive pressure vessels, nozzles, and distribution piping associated with other gas and water based fire suppression systems. The Stat-X aerosol agent is extremely effective when compared to alternative agents and aerosol generators are strategically placed throughout the hazard area offering significant weight and space savings over conventional systems. Stat-X systems are designed for total flooding applications in accordance with established design criteria. All installations must meet the requirements of the local authority having jurisdiction.

A single or connected group of Stat-X electrically operated units (or generators) are used to suppress Class A (surface), Class B, and Class C fires in specific hazard areas, facilities, or within equipment located in enclosed areas and confined spaces where low weight/space to extinguishing capacity is a factor.

The fire-extinguishing agent is an ultra-fine aerosol, which hangs in suspension for extended periods of time (for at least 10 minutes) providing excellent protection against re-flash, with minimal clean up.

Stat-X systems and generators are suitable for use in normally occupied and unoccupied spaces. In areas where personnel may be present the system shall employ a pre-discharge alarm and 30 second time delay prior to activation. Provision for system isolation for system maintenance shall be provided when personnel may be in the protected area.

They are intended to protect the following typical applications:

- Electrical Cabinets and Rooms
- Generator Rooms
- Glove Boxes
- Telecommunications Facilities
- Flammable Liquid Storage Areas
- Process Control Rooms
- Storage Vaults
- Marine Engine Rooms*
- Gas Turbine Enclosure
- High Value Mobile Equipment*
- Power Plants
- High Value Industrial Equipment Areas

*Not part of the UL Listing under UL Subject 2775 but are covered under other applicable listings (American Bureau of Shipping, Marine and Coast Guard Agency, ECB, and others)

Stat-X generators are not suitable for the following hazards; or, where the following materials may be present:

- Materials, which burn with deep-seated characteristics (wood, fiber, cotton, etc.)
- Electrical equipment operating at over 40,000 V
- Metal hydrides, pyrophoric substances, and chemical substances that smolder and burn without air
- Metal powders (magnesium, titanium, etc.)
- Environments which require devices specifically listed/ labeled for installation inside rated hazardous areas (explosive atmospheres).

Extinguishing Agent

The aerosol produced upon activation of a Stat-X generator suppresses fire by a combination of chemical and physical mechanisms similar to the Halons without negative effect on the environment. Because of the aerosol's ultra-fine particle size (≤2 micron) there is a dramatic increase in the surface area interaction between the agent and the fire.

Unlike gaseous agents the aerosol does not decompose in the presence of fire nor does it extinguish by oxygen deprivation. The aerosol is considered non-toxic to humans when applied in normal design concentrations necessary to extinguish most fires; however, certain safety restrictions should be observed when applying and handling the generators. Exposure to the aerosol should be limited and unnecessary exposure to the particulate should be avoided. Exposure to the aerosol is generally less concerning than exposure to the decomposition products of a fire.

Toxicity: Tests conducted by Charles River Laboratories (Tranent, Scotland) as well as others have shown that the aerosol does not present a health hazard due to limited accidental exposure at normal design concentrations. Exposures under five minutes are normally considered safe.

While the components of the aerosol are not considered toxic at normal concentration levels, ingestion of the ultra-fine particulate may cause short-term discomfort and unnecessary exposure should be avoided. Tests have shown no long-term negative effects from exposure to the aerosol. In addition, the aerosol has a high obscuration factor. US EPA has approved Stat-X for use as a total flooding system for normally occupied spaces.

NOTE

STAT-X SYSTEMS SHALL ONLY BE APPLIED IN AREAS WHERE PERSONNEL MAY BE PRESENT IN CONJUNCTION WITH A 30-SECOND TIME DELAY TO ENSURE EGRESS OF PERSONNEL PRIOR TO SYSTEM DISCHARGE. A SYSTEM MAINTENANCE ISOLATE SWITCH SHOULD BE INSTALLED IN NORMALLY OCCUPIED AREAS.

Residue and Cleaning: The ultra-fine aerosol discharge remains in suspension for an extended period and can be vented by a fan or air handling system. Aerosol residue, which may have settled on the floor, equipment, or other surfaces, can be vacuumed or wiped clean with a water & acetic acid solution (e.g. vinegar). Settled and agglomerated particulates following an aerosol discharge is initially deliquescent in spaces with high humidity and is soluble in water.

Other Safety Considerations: The aerosol discharged into the hazard area upon activation of the generator is relatively "cool." However, the aerosol stream as it leaves the generator is above 100°C for a short distance from the outlet of the generator. Maximum temperatures are realized only in the last seconds of discharge. Each model has a required installation clearance distance specified as its "C-Zone." Steps must be taken to ensure generator placement so that it complies with this installation requirement. The generator housing is approximately 90°C immediately after discharge and care should be taken if handling the post-discharge generator prior to its cooling to ambient temperature.

Generators must never be installed to discharge directly on walls or equipment being protected, as this will cause agglomeration.

Storage: Each Stat-X aerosol generator is sealed with a non-permeable membrane and is unaffected by fluctuations in temperature and humidity. Accelerated aging tests have shown the generator's charge maintains its viability for more than 10 years under conditions ranging from - 40°C to + 54°C and cycled relative humidity levels up to 95%.

INSTALLATION AND MAINTENANCE

Facility Considerations

Significant Obstructions/Agent Distribution: In cases where there is a large ratio of fixed equipment to total volume, or where the protected equipment is located in such a way as to present a barrier to the free flow and distribution of aerosol throughout the hazard area, the use of a larger number of smaller aerosol generators may be more suitable. This will allow for strategic placement of the aerosol generators and improved distribution characteristics throughout the protected area.

Mounting: Stat-X aerosol generators are listed for both sidewall and ceiling locations and may be mounted on walls, beams, constructions, and columns, as long as the unit is securely bolted to the support structure and is mounted in a position where its "C-zone" (clearance zone where momentary peak temperature of the discharge will not exceed 75°C) will not impact on personnel, facilities, equipment or combustible materials located within the protected area. Housing clearance is required spacing of generator from combustibles and structural materials.

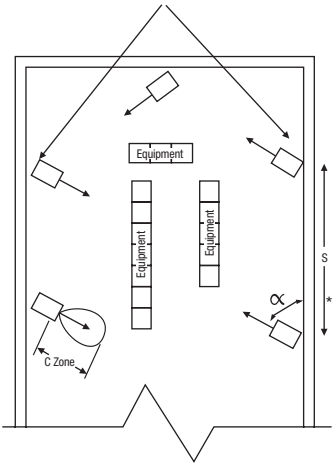
Aerosol Stream Characteristics			
Model	**C - Zone**	**Height Max.**	**Housing Clearance**
30E	0.25m	0.5 to 1.22 m	7mm
60E	0.35m	0.5 to 2.00 m	7mm
60ME	0.30m	0.5 to 2.00m	7mm
100E	0.46m	0.5 to 2.50 m	13mm
250E	0.75m	0.5 to 2.75 m	13mm
500E	1.27m	0.5 to 3.50 m	13mm
1000E	2.30m	0.5 to 4.88 m	13mm
1500E	2.00m	0.5 to 4.88 m	30mm
2500E	2.70m	0.5 to 4.88 m	30mm

Mounting Height: In general, the aerosol generators should be mounted at or near ceiling height and angled toward the floor at an angle to ensure three-dimensional distribution of aerosol and an unobstructed discharge path. (15° - 30° for sidewall mounting). To ensure maximum distribution of aerosol throughout the hazard area, the maximum height of generator placement from the floor must be limited as indicated above. Underfloor applications should be mounted horizontally.

Flow: Placement of the aerosol generators to ensure proper aerosol flow and distribution is extremely important as each generator functions as a flow nozzle. **Aerosol generators must never be positioned to discharge directly at each other!** This will cause agglomeration of the aerosol particulate, reducing the aerosol's extinguishing effectiveness. **For the same reason, aerosol generators must be positioned to ensure that the aerosol stream does not impinge directly on walls or the sides of equipment being protected.**

Typical Placement

Aerosol Generators



*Spacing S should be even unless prevented by obstruction.

Operating/Temperature Range: Stat-X aerosol generators are listed to operate within a temperature range of -40° C to +54° C. Generators are sealed with a non-permeable membrane and are unaffected by fluctuations in humidity and temperature.

EQUIPMENT INSTALLATION

General. All Stat-X generators must be installed to facilitate proper operation, inspection, testing, and any other maintenance as may be necessary. Equipment must not be subject to mechanical, chemical, or other damage, which could render the unit inoperative. Equipment must be installed in accordance with all applicable standards and the contents of this section of the manual.

WARNING

AEROSOL GENERATORS CONTAIN A FLAMMABLE SOLID AND MUST ONLY BE HANDLED, INSTALLED, AND SERVICED BY A TRAINED TECHNICIAN USING THE INSTRUCTIONS CONTAINED IN THIS SECTION. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD CAUSE A PREMATURE DISCHARGE AND/OR POTENTIAL INJURY.

Aerosol Generator Installation. The Stat-X aerosol generators should normally be located within the protected hazard area. The following installation instructions must be followed in the exact sequence outlined below to prevent accidental discharge, bodily injury, or property damage.

WARNING

TO PREVENT PERSONAL INJURY, DE-ENERGIZE ALL ELECTRICAL CONNECTIONS PRIOR TO GENERATOR INSTALLATION.

Single Generator System:

1. Position mounting bracket and securely fasten to wall, ceiling, or other supporting structure in a location and manner, which ensures the generator will not be subjected to accidental damage or movement.

2. Remove generator from shipping container and inspect integrity of the non-permeable membrane and generator. Do not install if the membrane is ruptured in any way or if the housing has been damaged in shipment. Verify igniter integrity with Ohmmeter. Do not install if reading > 2 ohms.

3. Securely attach generator to the mounting bracket with generator clamp taking care to ensure the clamp is free of the initiator mechanism and that all bolts are securely tightened.

4. Position generator, via the bracket-mounting swivel, to allow for an unimpeded discharge upon activation. Care must be taken so that the generator does not directly discharge at close range at the wall, ceiling, or vertical surfaces of the equipment within the hazard area.

5. Taking care to ensure that power is off, connect electrical lines to the initiator fitting at the top of the generator.

NOTE

THE INTERFACE BETWEEN THE GENERATOR AND THE FIRE ALARM CONTROL PANEL MAY REQUIRE ADDITIONAL ELECTRICAL DEVICES TO MEET LISTING COMPATIBILITY REQUIREMENTS. CONSULT FIRE ALARM CONTROL PANEL MANUAL FOR ANY LISTED SPECIAL FIELD DEVICES THAT MAY BE REQUIRED AS PART OF THE RELEASING CIRCUIT (E.G. EMATCH PROTECTION DEVICE, P/N 3005014).

WARNING

DE-ENERGIZE ALL ELECTRICAL CONNECTIONS PRIOR TO GENERATOR INSTALLATION. BE CAREFUL TO ENSURE THAT NO BODY PART IS PLACED DIRECTLY IN FRONT OF THE GENERATOR'S EXIT PORTS DURING INSTALLATION.

Multiple Generator System:

1. Position mounting brackets and securely fasten to wall, ceiling, or other supporting structure in a location and manner, which ensures the generators will not be subjected to accidental damage or movement.

2. Make sure mounting brackets are located in a manner to ensure a circular flow pattern and maximum dispersal and mixing of aerosol and air during discharge.

3. Remove generator from shipping container and inspect integrity of the non-permeable membrane and generator. Do not install if the membrane is ruptured or punctured in any way or if the housing has been damaged in shipment. Verify igniter integrity with ohmmeter. Do not install if reading is outside a range of 1.4 – 2.0 ohms.

4. Securely attach generators to the mounting brackets with generator clamps taking care to ensure the clamps are free of the initiator mechanism and that all bolts are securely tightened. **Aerosol gases discharged from the generator will add thrust loading on the clamps. It is essential that the fasteners are secure.**

5. Position generators, via the bracket-mounting swivel, to allow for unimpeded discharge upon activation. Care must be taken so that the generator does not directly discharge at close range on the wall, ceiling, or vertical surfaces of equipment within the hazard area. Generators must be positioned to promote circular flow and mixing of aerosol from multiple generators. Aerosol generators must never be positioned to discharge directly at each other! This will cause agglomeration of the aerosol particulate, reducing the aerosol's extinguishing effectiveness. The aerosol system is designed to flood the protected space when the generators are positioned in a balanced arrangement. It is not required for the generators to be aimed at specific hazards as local application streaming devices.

6. Generators can be wired in series or parallel to a releasing control panel. Activation current must be supplied to each generator as follows:

Activation parameters of the initiator are:

- Resistance: 1.4 – 2.0 Ohms
- Minimum parallel circuit firing current: 0.5A for 0.050 seconds.
- Minimum series circuit firing current: 1.0A for 0.050 seconds.
- Specified maximum test current: ≤0.025A.
- Specified maximum supervisory current: ≤.005A.

7. Install releasing control panel, detection, and ancillary devices per the directions contained in the manual supplied. Wiring is to be installed to local code requirements.

8. Once the electrical components of the system have been installed and tested, ensure power is off and then connect electrical lines to the initiator fitting at the top of the generator.

Post Installation Checkout: After the Stat-X generators have been installed and connected to the appropriate detection and/or control system perform the following inspection and tests.

1. Verify generators of the correct size are installed per the installation drawings.

2. Verify generator mounting brackets and clamps are properly installed and that all fittings and fasteners are tight.

3. Verify electrical connections have been made and test for electrical continuity using an ohmmeter.

4. Verify generators are positioned properly. Check for obstructions in the path of the aerosol discharge stream. Generators must be installed such that they cannot cause personnel injury upon activation. The aerosol discharge stream must not impinge at close range on walls, ceiling, or equipment.

5. Manual/electrical release stations must be properly installed, readily accessible, and clearly identified.

6. Verify time delay functionality and integrity.

7. All acceptance testing shall be in accordance with this manual, any applicable standards, and the authority having jurisdiction.

OPERATION

General. A solid charge of the aerosol composition is contained within the sealed generator. Upon activation of the initiator, the charge begins a controlled burn producing an ultra-fine aerosol. The aerosol passes through an oxidation filter, where CO is converted to minor amounts of CO_2, and then through a cooling bed where the temperature of the aerosol is rapidly reduced before it escapes through the discharge ports of the generator at low pressure. Generator placement within the hazard area provides proper flow and distribution of the aerosol within the protected area.

Operating Procedures

Electrical Automatic Operation: Electrical automatic operation occurs upon activation of the detection circuit, initiating a voltage source from the fire alarm control panel to the generators.

In areas where personnel may be present, a 30 second time delay is required to ensure egress time prior to system discharge. In normally occupied areas, a system maintenance isolate switch shall be installed outside the hazard area to ensure that activation of the system is "manual only" during maintenance of the system.

Personnel must evacuate the hazard area promptly upon hearing the pre-discharge alarm. Ensure no one enters the hazard area after discharge and call the fire department promptly.

NOTE

THE ABOVE INSTRUCTIONS MUST BE POSTED ON DISPLAY IN THE PROTECTED AREA.

Remote Electrical Manual Operation: Manual electrical operation is performed by manual release from a releasing device located outside the protected enclosure. Operate as follows:

1. Upon fire notification, leave the hazard area quickly

2. Proceed to the appropriate remote manual/electrical release station for the hazard.

3. Ensure all personnel have left the protected enclosure.

4. Operate manual pull station.

5. Allow no one to enter the hazard area. Call the fire department promptly.

Maintenance System Isolate Switch: Unless prohibited by the local authority having jurisdiction, the automatic operation of the system shall be prevented by means of a system isolate switch (lockout located outside the protected area) during maintenance when personnel are present.

The operation of the system shall be manual only during maintenance operations on the fire detection system or on the generators. While the system isolate switch is active the automatic activation of the system is inhibited but the fire detection and alarm system shall continue to function. The system shall return to full automatic control when the switch is reactivated. An abort switch may be installed to allow personnel to delay the automatic operation of the system.

Post Discharge Operation: After discharge of a Stat-X fire suppression system, qualified fire suppression system maintenance personnel must perform post discharge maintenance and system installation procedures outlined in this manual. Observe all warnings, especially those pertaining to the length of elapsed time before entering the hazard area.

WARNING

DO NOT ENTER A HAZARD AREA WITH AN OPEN FLAME OR LIGHTED CIGARETTE. THE POSSIBLE PRESENCE OF FLAMMABLE VAPORS MAY CAUSE RE-IGNITION OR EXPLOSION.

WARNING

WHILE MAINTAINING ENCLOSURE INTEGRITY, ENSURE FIRE IS COMPLETELY EXTINGUISHED PRIOR TO VENTILATING AREA. BEFORE PERMITTING ANYONE TO ENTER THE HAZARD AREA, VENTILATE AREA THOROUGHLY OR USE SELF-CONTAINED BREATHING APPARATUS.

Post Fire Maintenance: The following procedures must be followed in the exact sequence to maintain and re-commission Stat-X generators as part of a suppression system:

1. After discharge, allow a minimum holding time of ten (10) minutes

2. Always be sure to have backup portable extinguishers at hand for use in the event of re-ignition.

3. Vent area thoroughly by operating the ventilation system, by fan extraction, or by opening doors and windows. Avoid opening doors leading to other occupied rooms. To avoid unwanted inhalation of fire by-products and aerosol, a protective breathing apparatus or mask should be worn if it is necessary to enter prior to complete ventilation of the hazard volume.

4. Inspect the area to ensure the fire is completely extinguished and that there are no localized hot spots or other sources of re-ignition present.

5. Clean residue which have not been removed during ventilation, by thoroughly vacuuming, blowing, brushing, or washing away (with a water and 3.5% vinegar or similar acetic acid solution) as appropriate. Check to make sure that there is no agglomeration due to discharge too close to equipment, walls etc. If any agglomeration exists it must be wiped or washed clean. Consult Stat-X Safety Data Sheet for safety information.

6. **Important! Any residue which is not cleaned up shortly following discharge can absorb moisture in air.** A change in room temperature during a fire event or discharge can affect humidity and it is important to reduce the enclosure humidity as soon as possible following discharge.

7. Remove spent generators, being sure to wear gloves or other hand protection. The generators will remain quite warm to the touch for a time after actuation.

8. Dispose of spent generators per applicable federal, state, and local regulations

9. Contact your Stat-X distributor immediately for replacement generators. Replacement and commissioning should only be undertaken by trained personnel

NOTE
WARNING

Before performing post fire maintenance procedures refer to the Stat-X Safety Data Sheet.

MAINTENANCE

General: To ensure proper operation of your fire suppression system, a systematic maintenance program is required. A periodic maintenance schedule must be instituted including an inspection log maintained for reference. The log should, at a minimum, record: (1) inspection interval, (2) inspection procedure performed, (3) maintenance performed, if any, because of inspection, and (4) the name of the responsible person performing the operation.

Preventive Maintenance. Fireaway suggests that a preventive maintenance program require, at a minimum, the following schedule:

Schedule	Requirement
Weekly	Check all electrical connections and status of fire alarm control panel (if applicable)
	Visual inspection of components and generator mounting
Six months	Inspect all system components. Test fire detection system as required.
	Verify electrical continuity (check panel status)
	Inspect bracketing & position of generators
Every 10 years	Replace per date code on label.

Inspection Procedures

Weekly

1. Check all electrical connections to ensure operation of the Stat-X generators in the event of a fire. If connected to a fire alarm control panel, check the panel status.

2. Make a general visual inspection of all aerosol generators for damaged or missing parts, and visually inspect that generator mounting is secure.

Every Six Months

1. Ensure access to hazard areas, lines of egress, and manual release stations are unobstructed and that there are no obstacles inhibiting the proper operation of the aerosol generators or distribution of the aerosol in the event of a fire.

2. Inspect Stat-X aerosol generators for physical damage, such as cracks, dents, distortion, or corrosion. If damage is found, replace generator as instructed in the installation section of this manual.

3. Inspect mounting brackets, clamps, and associated hardware for loose, damaged, or broken parts. Replace damaged parts and tighten all loose hardware.

4. Inspect all manual release stations for damage, dirt, or distortion. Inspect station for signs of physical damage, replace if necessary.

5. Inspect all electrical connections and run electrical continuity tests using an ohmmeter. Repair and replace as necessary.

6. Replacement: The aerosol generators have an installed service life of ten (10) years. Generators are to be replaced ten years from the date code in the lower right corner of the product label as follows, the 2-digit numeric represents the year and the single digit numeric the month of shipment from the factory:

18	19	20	21	1	2	3	4	5	6	7	8	9	10	11	12

18 = 2018, 19 = 2019, etc. A unit marked 18 12, for example, would have shipped in December of 2018.

RECYCLING OF AEROSOL GENERATORS AFTER DISCHARGE:

In most cases the discharged generator can be disposed of in any landfill that handles industrial waste. However, local regulations must be researched and observed.

Each discharged aerosol generator will contain the following material:

1. Stainless steel outer shell – all

2. Mild steel cross members (30E, 60E, 100E, 250E, 500E)

3. Mild steel spacer ring - all

4. Stainless steel inner shell, top and bottom plates, screens (all sizes), and cross members (1000E, 1500E, 2500E)

5. Activated Alumina: CAS 1333-84-2 (Aluminum Oxide non-fibrous)

30E	60E	100E	250E	500E	1000E	1500E	2500E
20g	40g	100g	550g	970g	1670g	2350g	3600g

1. Fiberglass rope (ø1cm x 50cm).

2. Ceramic Paper < 150g.

3. Wire – 24gauge, PVC coated (< 1g)

4. Trace chemicals: K2CO3 (water-soluble particulate "trapped" in unit during discharge).

Un-discharged generators taken out of service should be returned to your local authorized distributor for replacement and re-cycling.

LIMITED WARRANTY STATEMENT

Fireaway represents this product is free from defects in material and workmanship, and it will repair or replace any product or part thereof which proves to be defective in workmanship or material for a period of eighteen (18) months from the date of first shipment from our factory. Defective units should be returned shipment prepaid to the factory.

Fireaway Inc. will repair or replace and return shipping prepaid. Return or repair shall be the purchaser's sole remedy for defect.

Limitations of Liability

This warranty does not cover equipment damaged during shipment or by misuse, accident, or negligence, or which has been repaired or altered by others. Fireaway Inc. shall not under any circumstances be liable for special or consequential damages such as, but not limited to, damage or loss of property or equipment, loss of profits or revenue, cost of capital, cost of purchased or replacement goods, or claims by customers of the original purchaser. Remedies set forth herein to the original purchaser and all others shall not exceed the price of the equipment supplied.

This warranty is exclusively and expressly in lieu of all other warranties, whether expressed or implied, including warranty of merchantability or fitness.

A DETAILED MANUAL MAY BE OBTAINED BY CONTACTING THE MANUFACTURER.

Stat-X products are manufactured in the USA, and sold worldwide (excluding the Federation of Russian States) exclusively by Fireaway Inc. under license from R-Amtech International.

IMPORTANT NOTE

Shutdown of Air Handling and Power Supply

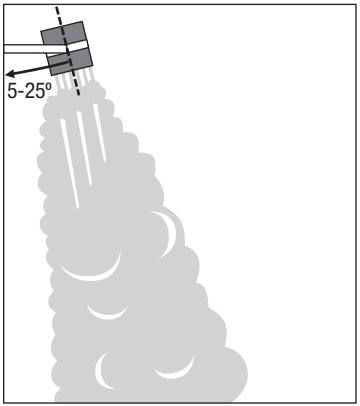
Upon pre-discharge detection of a fire, the ventilation system for the protected volume must be shut-down to ensure the required application density is delivered and that the fire is not exacerbated by excessive air-flow. In addition, electrical power to protected equipment must be shut down. This eliminates the potential of re-ignition from a continuous short circuit.

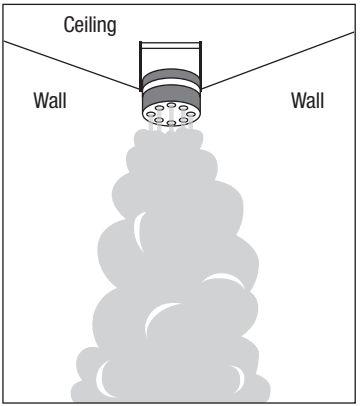
Questions concerning the information presented in this manual may be addressed to your authorized distributor or:

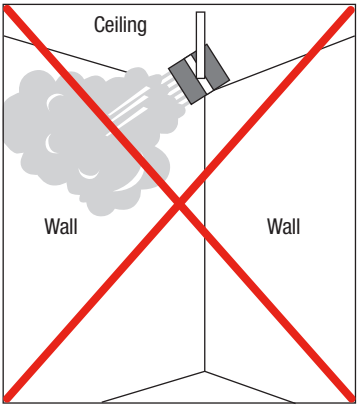
Fireaway Inc.
5852 Baker Road
Minnetonka, MN 55345
U.S.A.
Tel: 952-935-9745
Fax: 952-935-9757
www.statx.com

Stat-X Installation Guidelines:

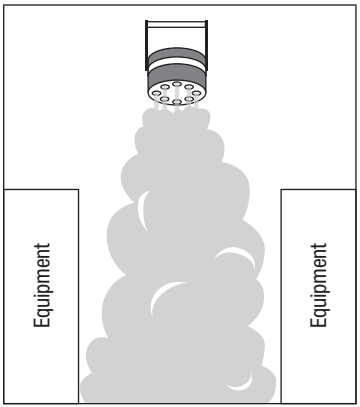
Aerosol generators should normally be mounted near ceiling height and angled to discharge down (under floor excepted) toward the floor at an angle to ensure three-dimensional distribution of aerosol. Normal orientation from vertical is 15° - 30°.

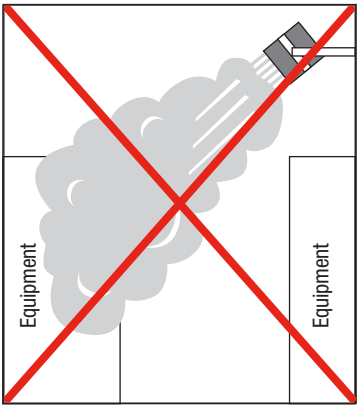


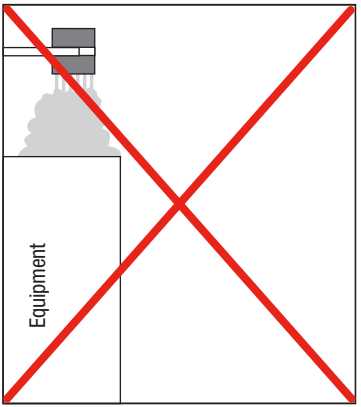




Generators must never be positioned to discharge directly at each other and must be mounted in such a way as to have an unobstructed discharge path, nor discharge at close range onto walls, ceiling, or equipment. Always check for obstructions in the path of the aerosol discharge stream. Generators must be installed such that they cannot cause personnel injury upon activation.









5852 Baker Road
Minnetonka, MN 55345
U.S.A.

Tel: 952-935-9745
Fax: 952-935-9757
www.statx.com

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