Stat-X®

Aerosol Fire Suppression

Your Choice for Special Hazard Fire Protection

Stat-X , USA

LIST OF APPROVALS

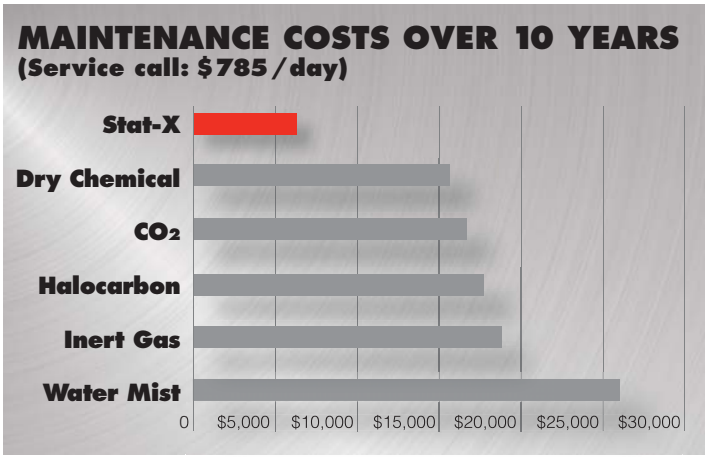
S/N	Approval	YEAR	COUNTRY
	International Approvals		
1	UL	2009	USA
2	ULC	2009	CANADA
3	Approval_UL_Denmark	2004	Denmark
4	ATEX	2017	USA
5	IECEX	2017	USA
6	EPA SNAP	2014	USA
7	MCA Certificate 2017	2017	USA
8	CE Declaration of Conformity	2014	USA
9	CSIRO_Report.	2007	USA
10	CSIRO ActivFIRE afp2284 2017	2017	USA
11	BV – Bureau Veritas NEKELIAAA	2015	USA
12	BV cert BV Mode II Scheme 11 16 2015	2015	USA
13	ABS Type Approval July 2013	2013	USA
14	Amerex Cert. of MIL STD Testing for Stat-X Generators R1.	2011	USA
15	Saudi Standards Metrology	2014	Saudi Arabia
16	Saudi Arabia Civi Defense Certificate	2014	Saudi Arabia
17	Dubai Civil Defense Approval 2013	2013	UAE
18	Abu Dhabi Civil Defence Approval	2014	UAE
19	Qatar Civil Defence Approval	2014	Qatar
20	Oman ministry permission	2013	Oman
21	Oman Stat-X Ministry of Environment.	2013	Oman
22	Abu Dhabi Civil Defence Approval Swedish Approval	2009	Sweed
23	South Africa Police Service Cert	2013	South Africa
24	Malaysia BOMBA	2015	Malaysia
25	Finnish 20120416 Trafi	2012	Finland
26	Brazil ABNT 386.001_15 Certificado	2015	Brazil
27	TraFi Approval Finnish	2016	Finland
28	Swedish_Maritime	2006	Sweed
29	Maritime New Zealand Approval	2013	New Zealand
30	Marine_Listing_Australia	2012	Australia
31	Iceland_MarineApproval	2008	Iceland
32	Finland Stat-X_Trafi	2011	Finland
33	ECB 161017 original certificate	2007	Nederland
34	CHILEAN_MARITIME_AUTHORITY__CERTIFICATE	2010	USA
34	Egyptian Civil Defense Approval X	2018	Egypt
	Management Approval		
35	ISO 9001 2015 Certificate.pdf	2019	USA

Low Cost of Ownership

NFPA standards and manufacturer guidelines all require regular system maintenance. This is essential to help ensure your suppression system is ready to respond in a fire emergency.

But maintenance costs can be significant over the life of a system and must be considered early on.

Because Stat-X fire suppression has no distribution piping or pressurized agent vessels, maintenance activity is minimized. This dramatically decreases total cost of ownership compared to other systems.



TECHNOLOGY	KEY MAINTENANCE TASKS	INTERVALS
Water Mist	Flow alarm & drain test	Quarterly
	Clean or replace screens	Semi-annual
	Nozzle water test flow	Annual
	Valve tear-down, inspect	5-years
Halocarbon	Test FACP actuation, weigh cylinders	Semi-annual
	Blow out piping	2-years
	Hydrostatic test hose	5-years
Dry Chemical	Test FACP actuation, blow out piping	Semi-annual
	Tear-down & replace agent	6-years
CO_2	Test FACP actuation, check pressure & agent quantity	Semi-annual
	Hydrostatic test cylinder, refill unrecovered agent	5-years
Inert Gas	Test FACP actuation, check pressure & agent quantity	Semi-annual
	Hydrostatic test cylinders, refill unrecovered agent	5-years
Stat-X	**Test FACP actuation, examine Stat-X hardware**	**Semi-annual**

The number of required maintenance tasks, their complexity and frequency determine costs over time. Tasks shown above are taken from UL-listed design, installation, operation and maintenance manuals from various manufacturers.

By comparison, Stat-X system inspection and maintenance has fewer tasks, saving both time and labor.

Fire Professionals Are Switching to Stat-X!

Fire safety professionals who do cost-to-benefit risk analysis quickly realize Stat-X fire suppression is the most economical system, offering the most effective fire protection, for many special hazard applications.

The inherent flexibility of design combined with equipment and labor savings allows them to enhance coverage for currently protected assets and add coverage to previously neglected areas.

What Our Customers Are Saying

"Stat-X protecting one of our CNC machines discharged due to fire, suppressing it. The area was unmanned and the automatic system stopped the fire from spreading. We were up and running again fast!"
- Manufacturer, Geneva, IL

"It works wonders. One Stat-X First Responder® knocked down the fire. They are life savers."
- Firefighter, Deer Park, NY

"After researching available special hazard systems for the very best protection as well as compliance with safety and environmental issues we found Stat-X technology as the product leader."
– Engineer, Leicestershire, UK

Traditional Special Hazard Fire Protection

Centers Around Two Technologies

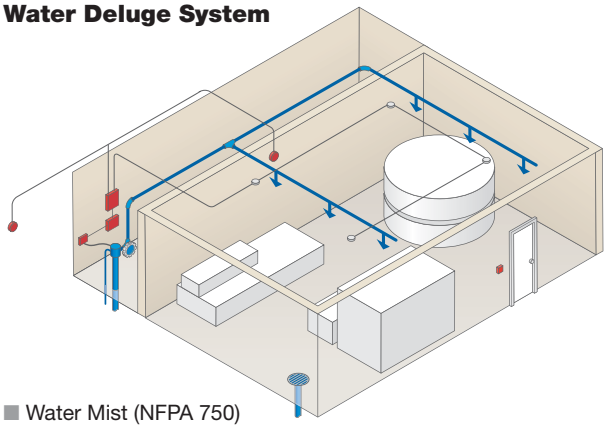
Water deluge and chemical agent fixed systems protect high value assets and processes not possible with sprinkler-based fire protection.

But this technology remains basically unchanged over the years; a supply of agent is stored under pressure, released through a piping distribution network, floods the space, and suppresses the fire.

Traditional piped systems require costly installation adaptations like:

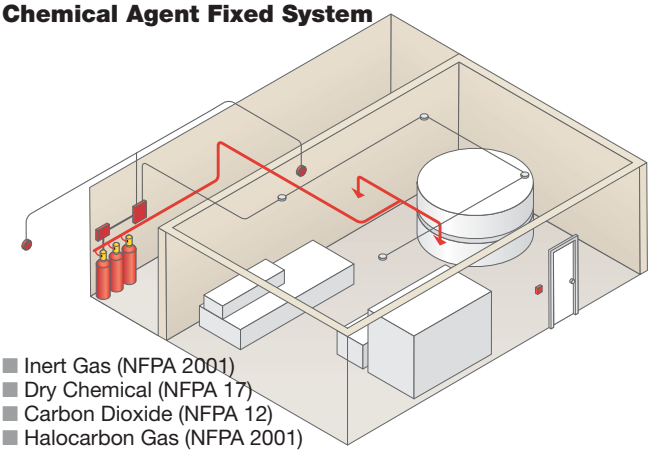
- Extra space for agent containers and piping
- Robust fixtures to handle weight and discharge
- System isn't easily reconfigured if space changes
- Extensive and frequent maintenance burden
- Special measures for recharging at remote sites

Water Deluge System



- Water Mist (NFPA 750)
- Foam-water spray (NFPA 16)

Chemical Agent Fixed System



- Inert Gas (NFPA 2001)
- Dry Chemical (NFPA 17)
- Carbon Dioxide (NFPA 12)
- Halocarbon Gas (NFPA 2001)

Stat-X® Aerosol Technology

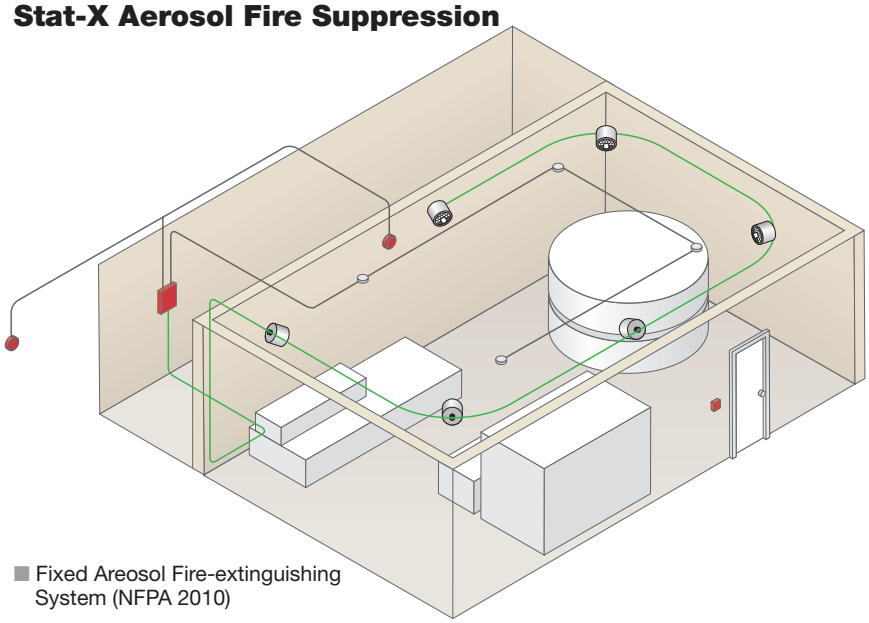
An Effective and Economical Alternative

For safety professionals who need effective and economical special hazard fire protection, Stat-X aerosol technology delivers up to 35% savings in equipment and lifecycle costs compared to traditional systems. This is due to lower initial expense plus minimal ongoing service costs.

Stat-X aerosol technology is different:

- NO distribution piping, manifold, or nozzles
- NO floor space requirement or shoring up for weight
- NO special handling for compressed gas cylinders
- NO venting or ceiling tile clips for discharge forces
- NO solenoid actuators, control heads, or hoses
- NO water drains or pipe freeze protection
- NO system pressurization or room integrity tests

Stat-X Aerosol Fire Suppression



- Fixed Areosol Fire-extinguishing System (NFPA 2010)

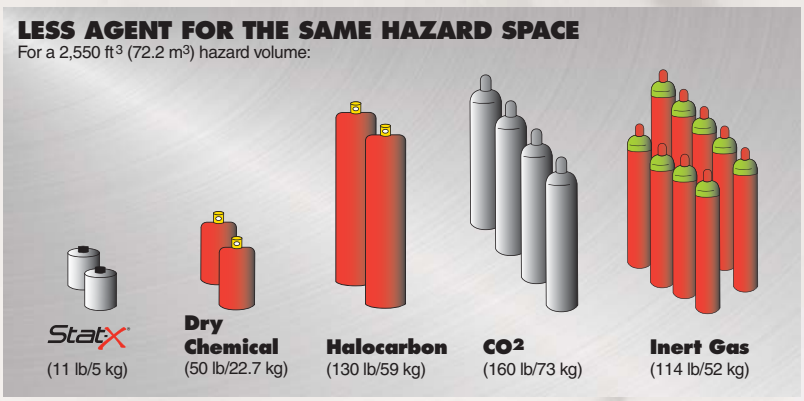
How it Works

Stat-X devices are termed condensed aerosol agent generators because they generate an ultra-fine suspension of highly ionized potassium fire-fighting particles upon actuation.

The key elements in the generation process are:

- Device is sealed and stable until actuated
- Actuator at top energizes proprietary compound, creating aerosol agent by exothermic oxidation
- Build-up of ultra-fine particles and nitrogen gas breaks membrane seal and exits through ports
- Discharge fills protected area with a soft suspension of Stat-X agent without “super-pressurizing” space
- Potassium ions combine with fragments of combustion, inhibiting the fire chain reaction
- Agent particles also absorb heat from the fire and form inert gases upon decomposition
- Minute Stat-X agent particles (≤2 µm) remain in suspension afterwards, helping check re-ignition
- Post-fire area is easily vented and cleaned, with no harmful byproducts generated

The superior effectiveness of condensed aerosols is due to a unique set of characteristics unmatched by other special hazard agents. This is why it is by far the most efficient fire suppression agent by weight.



- ***Most efficient fire suppression by weight***
- ***Effective on A, B & C Class fires***
- ***Negligible residue, minimal clean-up***
- ***Non-toxic, EPA listed halon substitute***

Key Approvals Worldwide

Aerosol fire suppression technology is well-known throughout Europe and Asia. In the past few years, more fire protection engineers in the Americas are recognizing its worth for protecting special hazards.

Norms such as NFPA 2010: Standard for Fixed Aerosol Fire Extinguishing Systems and UL 2775: Fixed Aerosol Extinguishing Systems Units now govern its use in a wide variety of applications.

Stat-X technology is also listed by the USA Environmental Protection Agency as a Halon alternative under its Significant New Alternatives Policy (SNAP) program.

It has no Ozone Depletion Potential (ODP) and zero effective Global Warming Potential (GWP) meaning Stat-X agent is not prone to future bans like many halocarbon agents.

Stat-X® Aerosol Fire Suppression

Product Specification Sheet

Electrically Operated Stat-X® Fire Suppression Generators

Model	Part No.	Aerosol Mass	Shipping Weight	Length	Diameter	Discharge Time	Initiation Current*	Circuit Pulse	Supervisory Current**
30E	15100	.03 kg./.07 lb.	.26 kg./.57 lb.	109 mm/4.29 in.	51 mm/2.00 in.	7 sec.	.5 amp parallel/ 1 amp series	50 milliseconds	< .005 amp
60E	15110	.06 kg./.14 lb.	.35 kg./.77 lb.	130 mm/5.12 in.	51 mm/2.00 in.	10 sec.	.5 amp parallel/ 1 amp series	50 milliseconds	< .005 amp
60E Long	15111	.06 kg./.14 lb.	.55 kg./1.23 lbs.	155 mm/6.10 in.	51 mm/2.00 in.	10 sec.	.5 amp parallel/ 1 amp series	50 milliseconds	< .005 amp
100E	15120	.10 kg./.22 lb.	.9 kg./1.98 lbs.	121 mm/4.76 in.	76 mm/3.00 in.	12 sec.	.5 amp parallel/ 1 amp series	50 milliseconds	< .005 amp
250E	15130	.25 kg./.55 lb.	2.2 kgs./4.85 lbs.	150 mm/5.90 in.	127 mm/5.00 in.	12 sec.	.5 amp parallel/ 1 amp series	50 milliseconds	< .005 amp
500E	15140	.5 kg./1.10 lb.	2.9 kgs./6.4 lbs.	180 mm/7.09 in.	127 mm/3.00 in.	23 sec.	.5 amp parallel/ 1 amp series	50 milliseconds	< .005 amp
1000E	15150	1 kg./2.21 lb.	5.4 kgs./11.91 lbs.	170 mm/6.7 in.	203 mm/8.00 in.	16 sec.	.5 amp parallel/ 1 amp series	50 milliseconds	< .005 amp
1500E	15160	1.5 kg./3.31 lb.	6.8 kgs./15 lbs.	203 mm/7.99 in.	203 mm/8.00 in.	23 sec.	.5 amp parallel/ 1 amp series	50 milliseconds	< .005 amp
2500E	15170	2.5 kg./5.52 lb.	9 kgs./19.84 lbs.	267 mm/10.51 in.	203 mm/8.00 in.	36 sec.	.5 amp parallel/ 1 amp series	50 milliseconds	< .005 amp

*Initiation current .5 amp parallel and 1 amp for in series. Releasing circuit pulse is to be 50 milliseconds. **Supervisory current on the release circuit cannot exceed .005 amp.

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)

UL ULC LISTED ACTIVFIRE LISTED ECB RINA mca ABS