

**PRE-ENGINEERED RETROFITTABLE
FIRE SUPPRESSION SYSTEM**

CEASEFIRE ATOM X

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GROWING NUMBER OF ESTABLISHMENTS DEMAND SPECIALIZED FIRE SUPPRESSION SYSTEM

Development in the economy has resulted in the mushrooming of the modern structures.

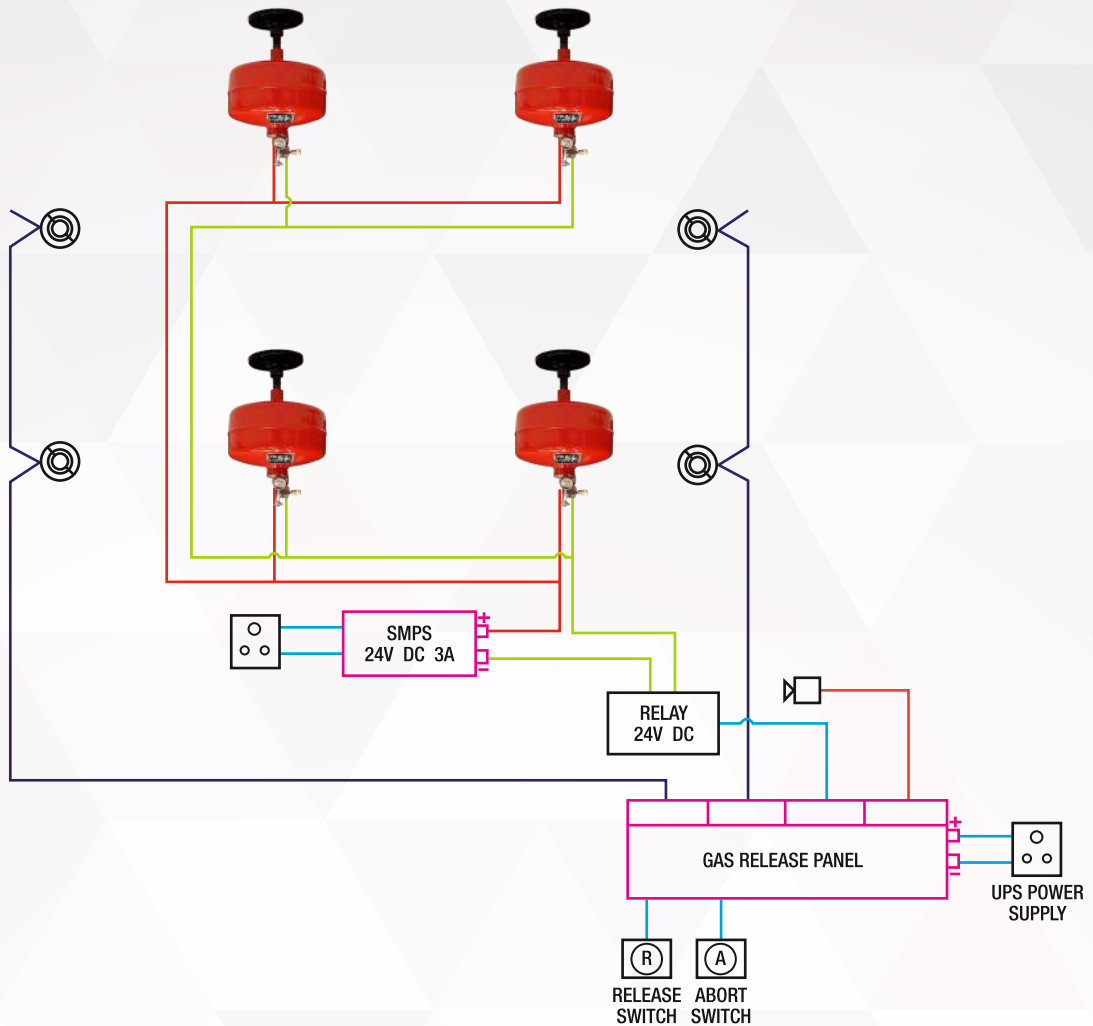
Each of these premises could be unique in their fire risks in terms of occupancy, kind of activities being carried, flammable materials stored or purely due to the high value of the assets present at these places.

Many turn to specialized suppression systems for ideal fire safety of their premises, often overlooking the cons that come attached.

LIMITATIONS OF THE CONVENTIONAL FIRE SUPPRESSION SYSTEM

- Demands Structural Changes: Installation of ducts, pipes, etc. at heritage sites or iconic buildings is unworkable situation.
- Requires Dedicated Floor & Room Space: Due to massive size of the container, it consumes a lot of room which could be utilized for resource space or any other operational activity.
- Leads to Total Downtime: Structural changes affect day to day running of premises. They demand businesses to halt the workflow till the installation completes, thereby disturbing the work space.





INTRODUCING ATOM X! PRE-ENGINEERED RETROFITTABLE FIRE SUPPRESSION SYSTEM

Understanding the evolving demands of unique infrastructures and businesses, Ceasefire presents the next generation specialized fire suppression technology. Ceasefire Atom X doesn't demand any structural change neither consumes the floor space nor leads to downtime, as this innovative system is mounted on the ceiling of the space.

Designed with smart and sensitive features, it minimizes the possibility of false activation and safeguards the premises.

The system is an automated smart network of ceiling mounted agent containers, an array of detection devices and a control panel.



ATOM X

PRE-ENGINEERED RETROFITTABLE FIRE SUPPRESSION SYSTEM

Development in the economy has resulted in the mushrooming of the modern structures. Each of these premises could be unique in their fire risks in terms of occupancy, kind of activities being carried, flammable materials stored or purely due to the high value of the assets present at these places.

Many turn to specialized suppression systems for ideal fire safety of their premises, often overlooking the system requirements like structural changes needed to accommodate the system, dedicated space to store the massive agent containers and the downtime associated with the installation.

Understanding the evolving demands of unique infrastructures and businesses, Ceasefire presents the next generation specialized fire suppression technology. Ceasefire Atom X doesn't demand any structural change neither consumes the floor space nor leads to downtime, as this innovative system is mounted on the ceiling of the space.

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Tested by **bsi.**

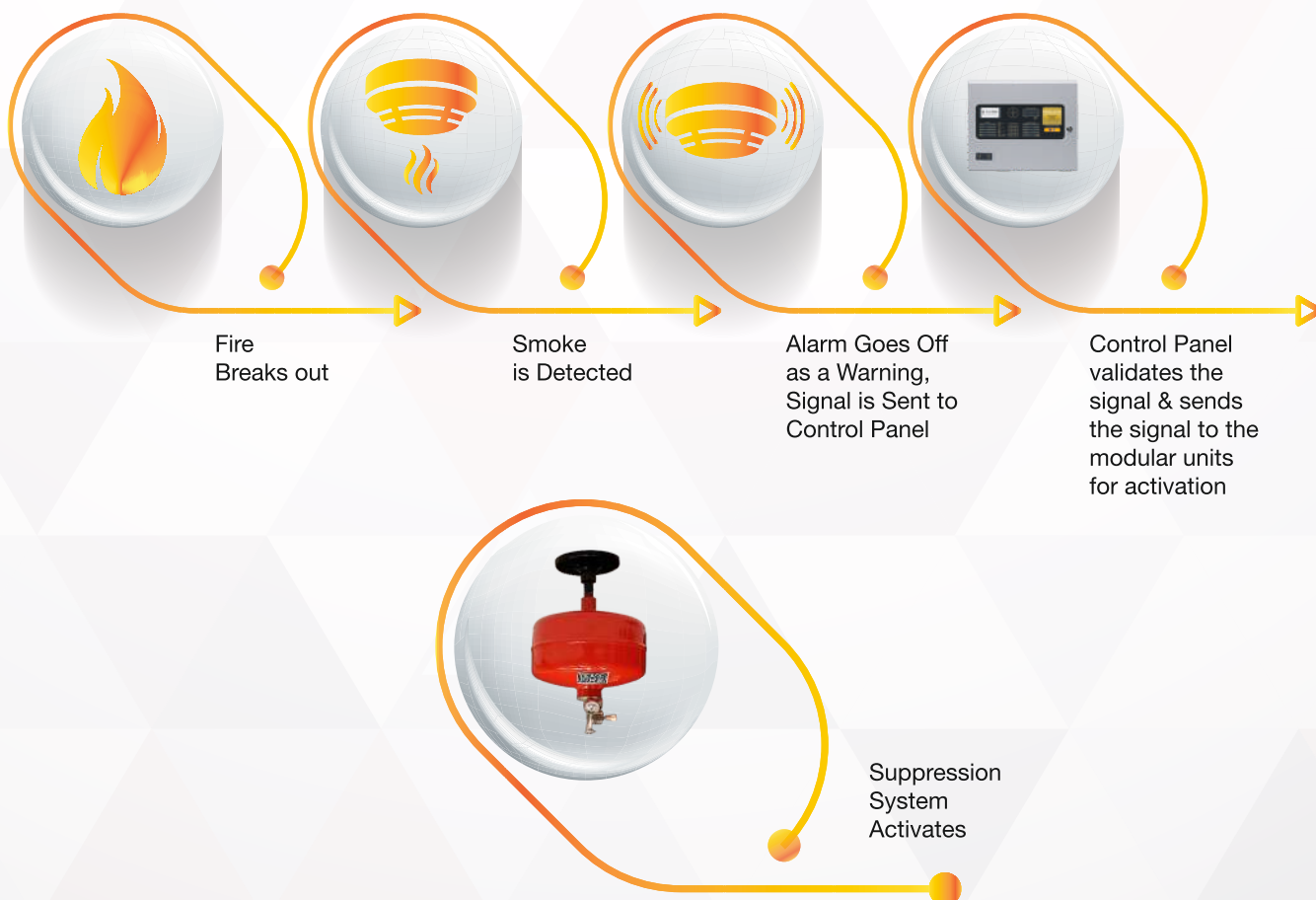


HOW THE SYSTEM WORKS

The flagship feature of the Atom X system is its intelligent fire detection and actuation module. The detection module of Atom X can be configured using a wide variety of detectors depending upon the risk hazards of the premises. These detectors may include smoke detectors, beam detectors, heat detectors, or others depending upon the need of the premises and all interact with a central control panel.

The Atom X actuates on the principle of cross-zoning. Only when two or more detectors from two separate zones confirm the fire episode to the control panel, the panel sends an activation signal to the system. The activation signal is sent to the Metron Actuator of Atom X in the form of an electrical impulse. On receiving this electrical impulse a metal pin is fired inside the actuator that breaks the glass vial placed at the discharge point of Atom X units, triggering the discharge of the agent. What makes the Atom X truly versatile is that all Atom X units are triggered simultaneously to achieve total flooding results.

IT'S SUPER SMART!





CEILING MOUNTED UNITS:

The retrofittable ceiling mounted units are containers based on clean agent that is attached to the control panel. All modular units, once activated, discharge the agent at once leading to total flooding.



FIRE DETECTION AND ALARM DEVICES:

The system has a wide-ranging line-up of detection devices such as smoke detectors, flame detectors, heat detectors, and beam detectors. A mix of these devices may be used in the system based on the fire hazard of the premises.



CONTROL PANEL:

Control panel is the system's heart. This state-of-the-art panel receives signals from the detectors and actuates the agent containers to achieve the desired extinguishing.



CEASEFIRE ATOM X IS AVAILABLE IN THE FOLLOWING VARIANTS

Ceasefire Atom X suppression system is available in two variants namely: Fluoroketone and ABC Dry Powder MAP 90.

These agents are some of the most potent extinguishing agents in the world. Availability of the system in two distinct variants makes it ideal for a wide range of applications.

TECHNICAL SPECIFICATION OF MAP 90 CONTAINER

Nomenclature	Atom X - 2Kg Automatic Suppression System	Atom X - 5Kg Automatic Suppression System	Atom X - 10Kg Automatic Suppression System	Atom X - 15Kg Automatic Suppression System
Size	2kg	5kg	10kg	15kg
Product Code	CF-001227A	CF-001215A	CF-001219A	CF-001231A
Pressure Type	Stored Pressure	Stored Pressure	Stored Pressure	Stored Pressure
Agent	MAP 90	MAP 90	MAP 90	MAP 90
Applicable on fires	A, B, C & Electrical Started Fire	A, B, C & Electrical Started Fire	A, B, C & Electrical Started Fire	A, B, C & Electrical Started Fire
Certification	PED BSI TESTED	PED BSI TESTED	PED BSI TESTED	PED BSI TESTED
Gross Weight (approx.)	3.61 kg	8.80 kg	15.90 kg	20.62 kg
Net Mass (approx.)	2 kg	5 kg	10 kg	15 kg
Maximum Area Covered*	10 m ²	40 m ²	60 m ²	132 m ²
Height of Fire Ext.(approx) with base	261 mm	333 mm	363 mm	442 mm
Actuation Mechanism	Thermal & Metron Actuator	Thermal & Metron Actuator	Thermal & Metron Actuator	Thermal & Metron Actuator
Can Construction	Deep Drawn and MIG Welded	Deep Drawn and MIG Welded	Deep Drawn and MIG Welded	Deep Drawn and MIG Welded
Valve / Cap Construction	Forging & Machining	Forging & Machining	Forging & Machining	Forging & Machining
External Coating	Epoxy Polyester Powder	Epoxy Polyester Powder	Epoxy Polyester Powder	Epoxy Polyester Powder
Warranty In Years	1	1	1	1
Helium Leak Detection Testing	Yes	Yes	Yes	Yes
Working Pressure	15 Bar	15 Bar	15 Bar	15 Bar
Dia. Of Shell (OD)	175 mm	240 mm	300 mm	300 mm
Operating Temperature	-30° C to +60° C	-30° C to +60° C	-30° C to +60° C	-30° C to +60° C
Hydrostatic Test Pressure	35 Bar	35 Bar	35 Bar	35 Bar
Cylinder Material Spec.	Steel CR2(DC01)	Steel CR2(DC01)	Steel CR2(DC01)	Steel CR2(DC01)
Body Thickness	2 mm	1.6 mm	2 mm	2 mm

Please check the product specifications at the time of placing your order from our website (address of which is given at the end of this catalogue). Specifications can change without notice due to our continuous R&D and product improvisation initiatives.

*Verify the coverage with the Ceasefire Design Cell (CDC) at the time of order.

TECHNICAL SPECIFICATION OF GAS CONTAINER

Nomenclature	Atom X - 2Kg Automatic Suppression System	Atom X - 5Kg Automatic Suppression System	Atom X - 10Kg Automatic Suppression System	Atom X - 15Kg Automatic Suppression System
Size	2kg	5kg	10kg	15kg
Product Code	CF-001349A	CF-001350A	CF-001351A	CF-001352A
Pressure Type	Stored Pressure	Stored Pressure	Stored Pressure	Stored Pressure
Agent	Fluoroketone (FK-5-1-12)	Fluoroketone (FK-5-1-12)	Fluoroketone (FK-5-1-12)	Fluoroketone (FK-5-1-12)
Applicable on fires	A, B, C & Electrical Started Fire	A, B, C & Electrical Started Fire	A, B, C & Electrical Started Fire	A, B, C & Electrical Started Fire
Certification	PED BSI TESTED	PED BSI TESTED	PED BSI TESTED	PED BSI TESTED
Gross Weight (approx.)	3.61 kg	7.80 kg	14.40 kg	22.30 kg
Net Mass (approx.)	2 kg	5 kg	10 kg	15 kg
Maximum Volume Covered	3 m ³	7.5 m ³	15 m ³	22.5 m ³
Height of Fire Ext.(approx) with base	261 mm	333 mm	363 mm	442 mm
Actuation Mechanism	Thermal & Metron Actuator	Thermal & Metron Actuator	Thermal & Metron Actuator	Thermal & Metron Actuator
Can Construction	Deep Drawn and MIG Welded	Deep Drawn and MIG Welded	Deep Drawn and MIG Welded	Deep Drawn and MIG Welded
Valve / Cap Construction	Forging & Machining	Forging & Machining	Forging & Machining	Forging & Machining
External Coating	Epoxy Polyester Powder	Epoxy Polyester Powder	Epoxy Polyester Powder	Epoxy Polyester Powder
Warranty In Years	1	1	1	1
Helium Leak Detection Testing	Yes	Yes	Yes	Yes
Working Pressure	10 Bar	10 Bar	10 Bar	10 Bar
Dia. Of Shell (OD)	175 mm	240 mm	300 mm	300 mm
Operating Temperature	-30° C to +60° C	-30° C to +60° C	-30° C to +60° C	-30° C to +60° C
Hydrostatic Test Pressure	35 Bar	35 Bar	35 Bar	35 Bar
Cylinder Material Spec.	Steel CR2(DC01)	Steel CR2(DC01)	Steel CR2(DC01)	Steel CR2(DC01)
Body Thickness	2 mm	1.6 mm	2 mm	2 mm

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TECHNICAL SPECIFICATION OF GAS CONTAINER

Nomenclature	Atom X - 2Kg Automatic Suppression System	Atom X - 5Kg Automatic Suppression System	Atom X - 10Kg Automatic Suppression System	Atom X - 15Kg Automatic Suppression System
Size	2kg	5kg	10kg	15kg
Product Code	CF-001229A	CF-001217A	CF-001221A	CF-001233A
Pressure Type	Stored Pressure	Stored Pressure	Stored Pressure	Stored Pressure
Agent	HFC-227ea	HFC-227ea	HFC-227ea	HFC-227ea
Applicable on fires	A, B, C & Electrical Started Fire	A, B, C & Electrical Started Fire	A, B, C & Electrical Started Fire	A, B, C & Electrical Started Fire
Certification	PED BSI TESTED	PED BSI TESTED	PED BSI TESTED	PED BSI TESTED
Gross Weight (approx.)	3.61 kg	8.80 kg	15.85 kg	20.65 kg
Net Mass (approx.)	2 kg	5 kg	10 kg	15 kg
Maximum Volume Covered	3.65 m ³	10 m ³	20 m ³	27.2 m ³
Height of Fire Ext.(approx) with base	261 mm	333 mm	363 mm	442 mm
Actuation Mechanism	Thermal & Metron Actuator	Thermal & Metron Actuator	Thermal & Metron Actuator	Thermal & Metron Actuator
Can Construction	Deep Drawn and MIG Welded	Deep Drawn and MIG Welded	Deep Drawn and MIG Welded	Deep Drawn and MIG Welded
Valve / Cap Construction	Forging & Machining	Forging & Machining	Forging & Machining	Forging & Machining
External Coating	Epoxy Polyester Powder	Epoxy Polyester Powder	Epoxy Polyester Powder	Epoxy Polyester Powder
Warranty In Years	1	1	1	1
Helium Leak Detection Testing	Yes	Yes	Yes	Yes
Working Pressure	10 Bar	10 Bar	10 Bar	10 Bar
Dia. Of Shell (OD)	175 mm	240 mm	300 mm	300 mm
Operating Temperature	-30° C to +60° C	-30° C to +60° C	-30° C to +60° C	-30° C to +60° C
Hydrostatic Test Pressure	35 Bar	35 Bar	35 Bar	35 Bar
Cylinder Material Spec.	Steel CR2(DC01)	Steel CR2(DC01)	Steel CR2(DC01)	Steel CR2(DC01)
Body Thickness	2 mm	1.6 mm	2 mm	2 mm

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Ceasefire Atom X



EFFECTIVE AGAINST ALL CLASSES OF FIRE



Wood, Paper, Fabric etc



Oil, Kerosene, Petrol, Gas etc



Flammable Gases



Electrically Started



ATOM X ADVANTAGES

Unlike conventional gaseous suppression systems, the Retrofittable Atom X Suppression System can be installed anywhere without undertaking any structural changes.

It has an unobtrusive design that can fit into any premises.

It is an ideal choice for already established sites where it is impractical to set up suppression systems.

Cost-effective, flexible and uncomplicated solution.

No need for any structural changes in the premises to accommodate system requirements such as piping, ducting, cylinder storage area, etc.

Being a ceiling mounted unit, it does not occupy any floor space making it an ideal choice for space-crunching premises.

The Retrofittable Atom X Suppression System is tamper proof.



ATOM X APPLICATION AREAS

• Gas Based Suppression System

Electrical Control Room
BMS control Room
Site control room
Server room for small offices
Server Racks
Battery Room
Mobile Room etc

• Powder Based Suppression System

Warehouse
Chemical Storage area
Energy Centre



CEASEFIRE DESIGN CELL :

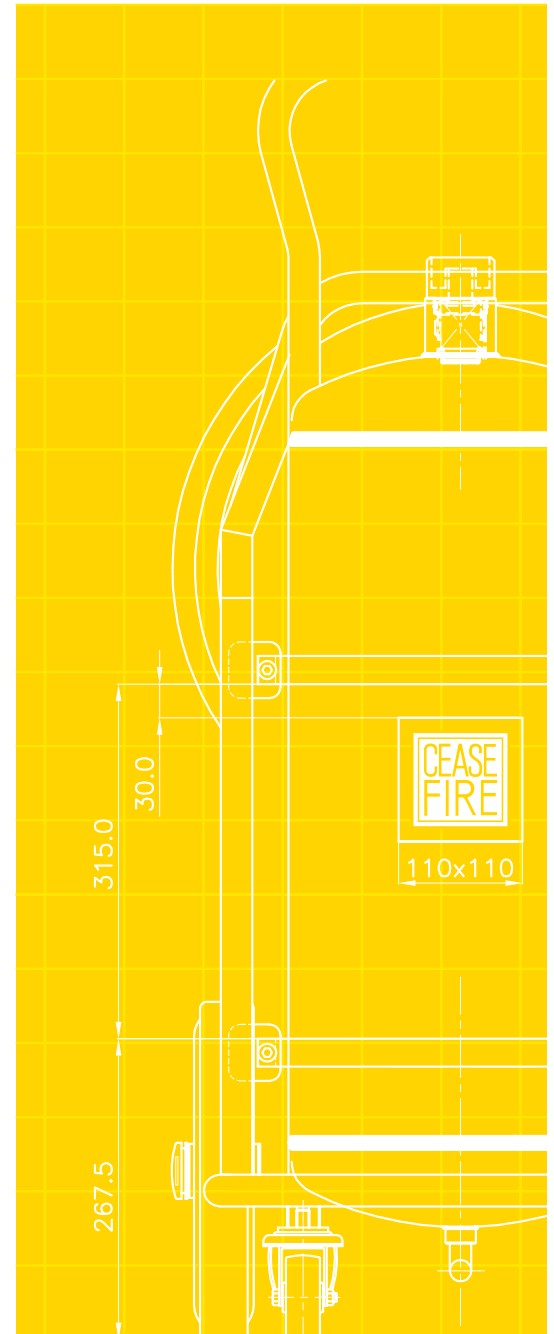
No two premises are alike. By offering the most flexible system configurations in the industry, Ceasefire provides the most efficient protection for facilities. Believing that the most effective fire solutions are the ones that are customised according to the unique characteristics of the area being protected, Ceasefire has established the Ceasefire Design Cell (CDC).

Functioning as the single touch point for all fire safety needs, CDC is manned by fire experts and managers with years of experience in fire safety under their belts. As a part of Ceasefire's 360 degree protection solution, the Ceasefire Technical Survey team visits your facility and conducts a detailed study to understand its vulnerabilities and requirements. They survey the premises and work out requirement based on fire threats in the room.

Once it has been finalised, Ceasefire's expert Installation Team oversee installation and testing. The Ceasefire Team also trains you and your staff to use the fire safety system.

Benefits:

- An exhaustive planning process, executed by engineers with years of experience.
- State-of-the-art solutions and products in association with world leaders.
- Design and installation of your System overseen by professionals, ensuring delivery of a high quality & reliable system.



CEASEFIRE NOW

360° lifesaving fire safety solutions. More than 3,000 new customers a month. A product sold every 61 seconds. A life saved every 5 minutes. Presence in over 300 cities and towns. Backed by a team of more than 2,000. 400 lifesaving products – from green fire extinguishers that can tackle any kind of fire to first of its kind automatic fire extinguisher to most advanced independent suppression systems – Ceasefire has it all. We're equipped and ready to protect your premises.

Ceasefire **Atom X**



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