



**PRE-ENGINEERED RETROFITTABLE
FIRE SUPPRESSION SYSTEM**

CEASEFIRE ATOM X

Ceasefire Atom X



GROWING NUMBER OF ESTABLISHMENTS DEMAND SPECIALIZED FIRE SUPPRESSION SYSTEM

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

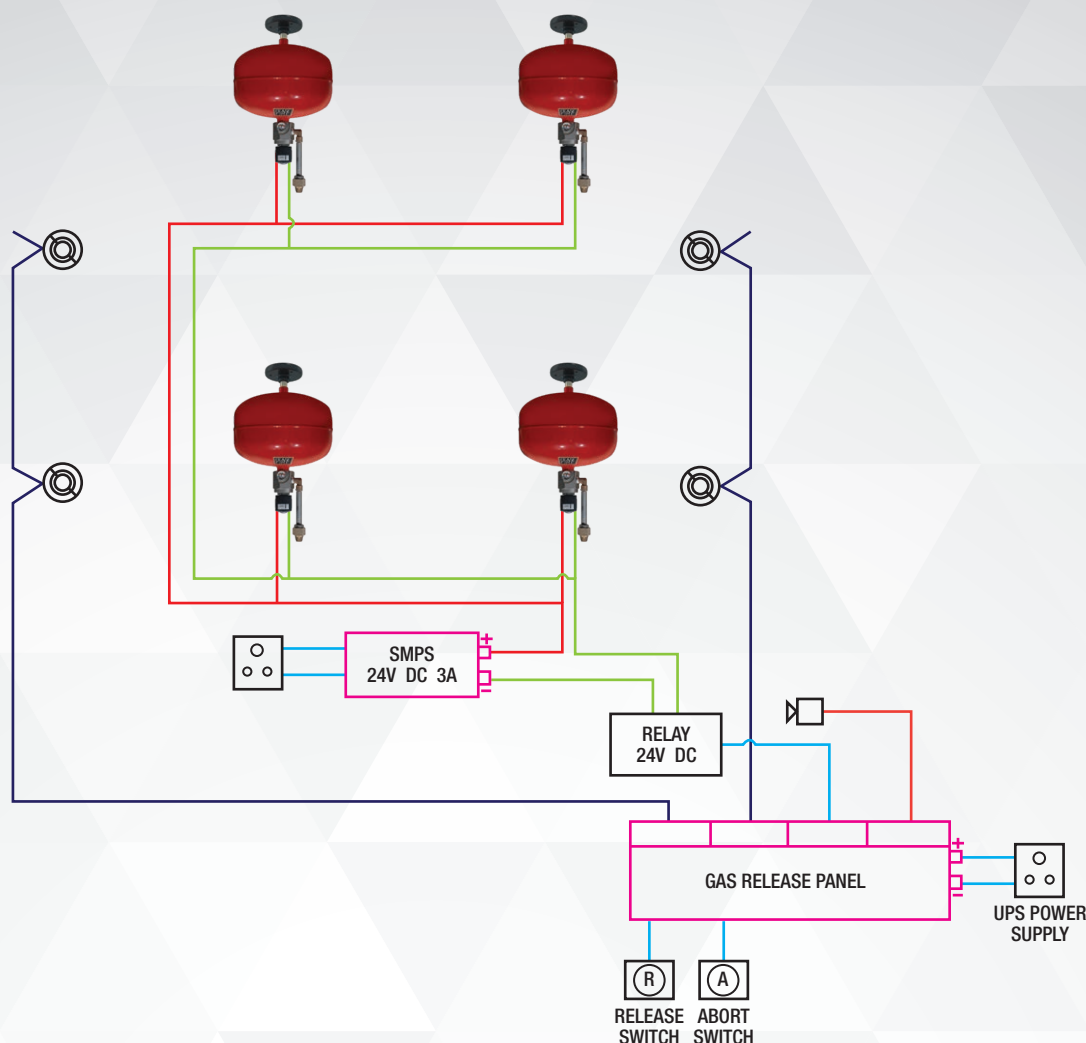
Each of these premises could be unique in their fire risks in terms of occupancy, kind of activities being carried, flammable materials stored or purely due to the high value of the assets present at these places.

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.



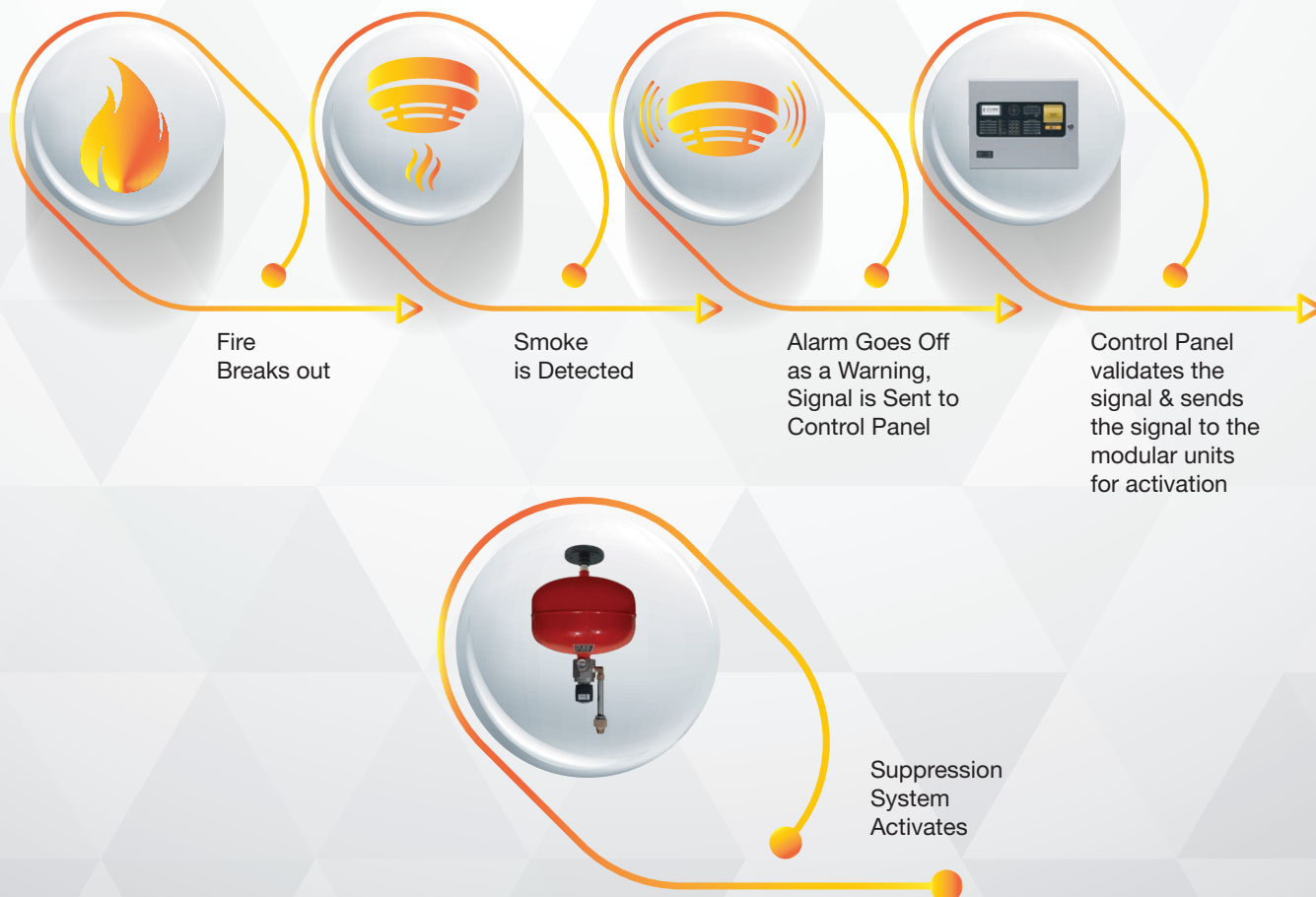


CEASEFIRE ATOM X

The ceiling mounted units are containers containing the extinguishing agent that are stored-pressure (low pressure). The system containers are attached to specially designed nozzles to ensure optimum use of the extinguishing agent. These modular units are attached to the control panel with detection devices together. The panel forms a two-way communication with the detection devices and agent containers. The detection devices detect even the weakest fire and send a signal to the control panel.

IT'S SUPER SMART!

KNOW HOW THIS AUTOMATIC SYSTEM WORKS





OPERATION OF THE AUTOMATIC FIRE SUPPRESSION SYSTEM

- The detection device senses fire or smoke or rise in temperature in case of a fire. These detectors then send an electrical impulse (signal) to the control panel.
- To diminish any possibilities of false alarms, the cross signaling mechanism comes into play. The system is activated only when the control panel receives the fire signal from two or more detectors in the fire zone.
- Once the control panel has been activated, it sends an electrical impulse to all the mounted ceiling units.
- The extinguishing agent is dumped into the fire zone within seconds and the area is totally flooded.
- The system is equipped with a manual actuator capable of activating (or aborting) the system manually, if necessary.



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: HFC 227 ea 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

Parameters	MAP90			
Size	2kg	5kg	10kg	15kg
Pressure Type	Stored Pressure	Stored Pressure	Stored Pressure	Stored Pressure
Agent	MAP90	MAP90	MAP90	MAP90
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
EN 3 Ratings	N/A	N/A	N/A	N/A
Certification Standard	N/A	PED	PED	N/A
Certification Body	N/A	EUROCERT	EUROCERT	N/A
Gross Weight	4.80 to 5.0kg	7.70 to 7.90kg	14.70 to 15.10kg	22.1 to 22.5kg
Net Content	1.80 to 2.10kg	4.90 to 5.10kg	9.80 to 10.20kg	14.80 to 15.2kg
Approx. Height of Fire Ext. Upto Nozzle (Without Base)	330 mm	390 mm	450 mm	535 mm
Discharge Mechanism	Automatic with solenoid	Automatic with solenoid	Automatic with solenoid	Automatic with solenoid
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
Internal Coating	N/A	N/A	N/A	N/A
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	15Bar	15Bar	15Bar	15Bar
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	35Bar	35Bar	35Bar	35Bar
Cylinder Material Spec.	Steel CR2(DC01)	Steel CR2(DC01)	Steel CR2(DC01)	Steel CR2(DC01)
Body Thickness	1.6 mm	1.6 mm	2.0 mm	2.0 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.

TECHNICAL SPECIFICATION OF GAS CONTAINER

Parameters	CM HFC227ea			
Size	2kg	5kg	10kg	15kg
Pressure Type	Stored Pressure	Stored Pressure	Stored Pressure	Stored Pressure
Agent	HFC227ea	HFC227ea	HFC227ea	HFC227ea
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
EN 3 Ratings	N/A	N/A	N/A	N/A
Certification Standard	N/A	PED	PED	N/A
Certification Body	N/A	EUROCERT	EUROCERT	N/A
Gross Weight	4.80 to 5.0kg	7.70 to 7.90kg	14.70 to 15.10kg	22.1 to 22.5kg
Net Content	1.90 to 2.10kg	4.90 to 5.10kg	9.80 to 10.20kg	14.80 to 15.2kg
Approx. Height of Fire Ext. Upto Nozzle (Without Base)	330 mm	390 mm	450 mm	535 mm
Discharge Mechanism	Automatic with solenoid	Automatic with solenoid	Automatic with solenoid	Automatic with solenoid
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
Internal Coating	N/A	N/A	N/A	N/A
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	10Bar	10Bar	10Bar	10Bar
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	35Bar	35Bar	35Bar	35Bar
Cylinder Material Spec.	Steel CR2(DC01)	Steel CR2(DC01)	Steel CR2(DC01)	Steel CR2(DC01)
Body Thickness	1.6 mm	1.6 mm	2.0 mm	2.0 mm

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Ceasefire Atom X





EFFECTIVE AGAINST ALL CLASSES OF FIRE



Wood, Paper, Fabric etc



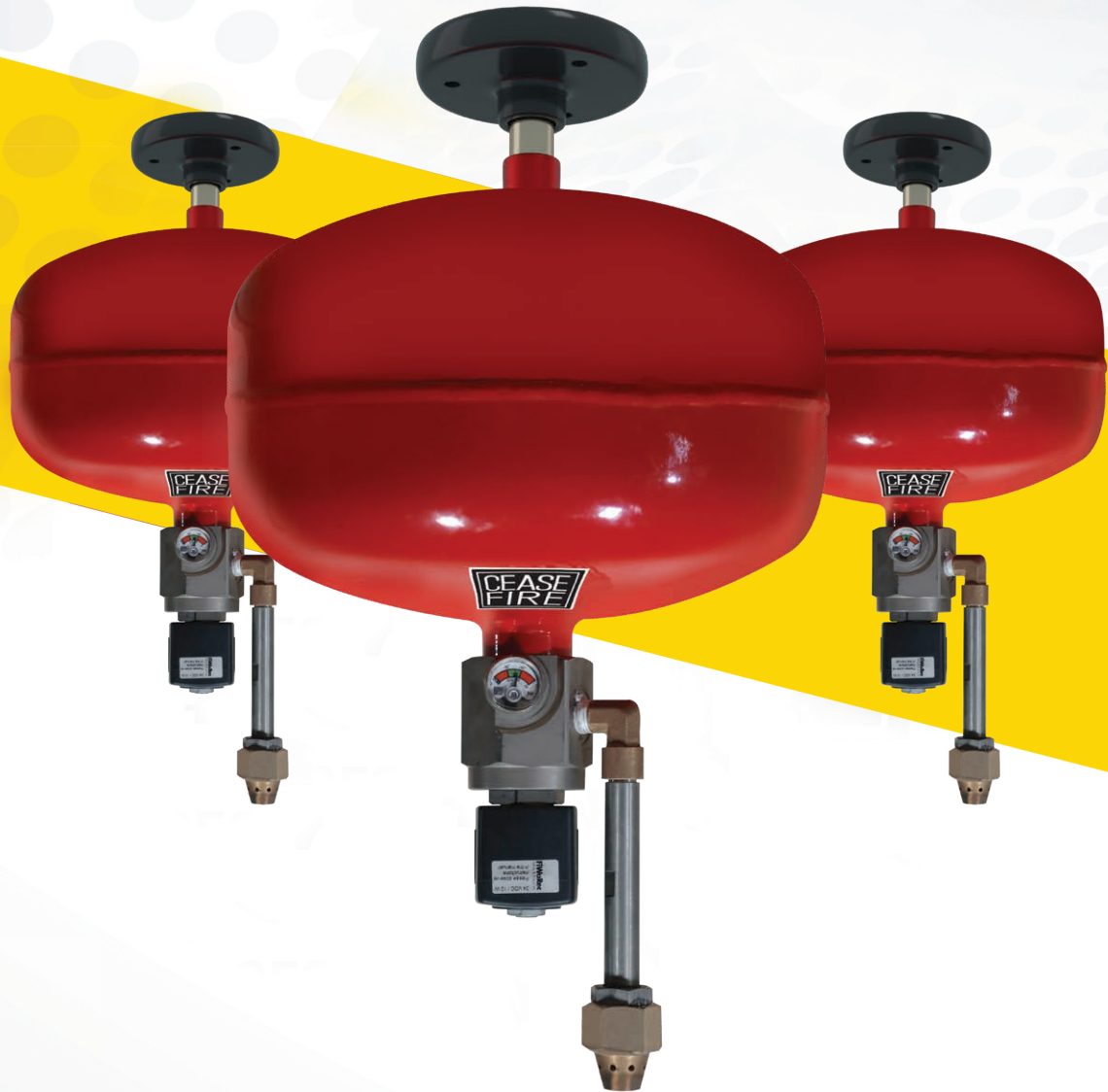
Oil, Kerosene, Petrol, Gas etc



Flammable Gases



Electrically Started



ATOM X ADVANTAGES

- Unlike conventional gaseous suppression systems, the Retrofittable Ceiling Mounted 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 system of this ceiling mounted unit 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



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