

# WHY CEASEFIRE SUPPRESSION SYSTEMS?

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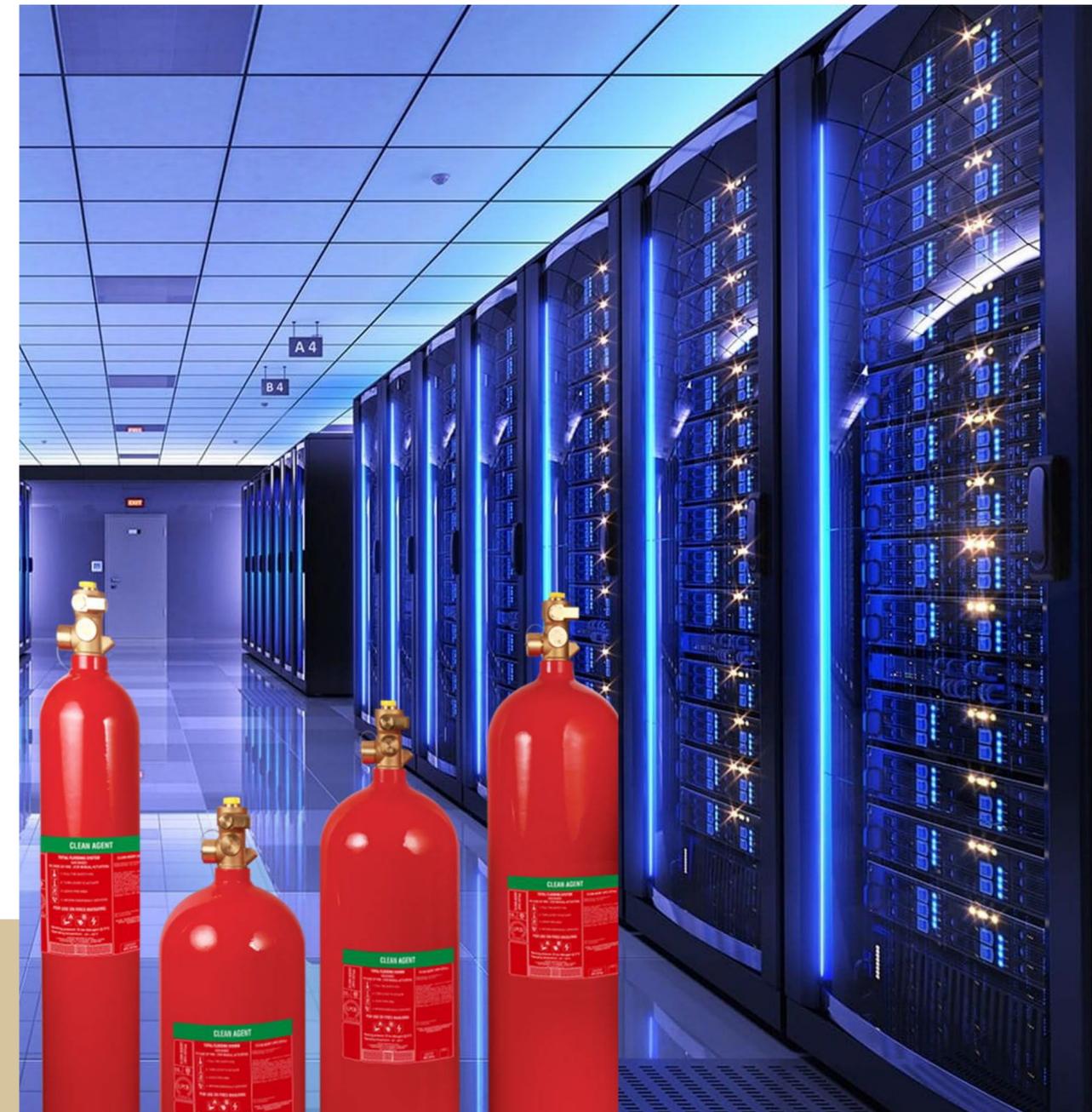


 Holistic Range spanning across micro environment suppression to total flooding systems

 Futuristic Technology

 Global certifications

 Unmatched quality



A full-spectrum of  
Fire Suppression Systems  
Certified by top notch  
quality agencies in the world.



CEASEFIRE'S  
HFC227EA FLOODING  
SYSTEM

Certified by LPCB to LPS  
1230 Standard



CEASEFIRE MINI-  
MICRO ENVIRONMENT  
SUPPRESSION SYSTEM

Tested by  
BSI



CEASEFIRE'S IN-PANEL  
TUBE-BASED FIRE  
SUPPRESSION SYSTEM

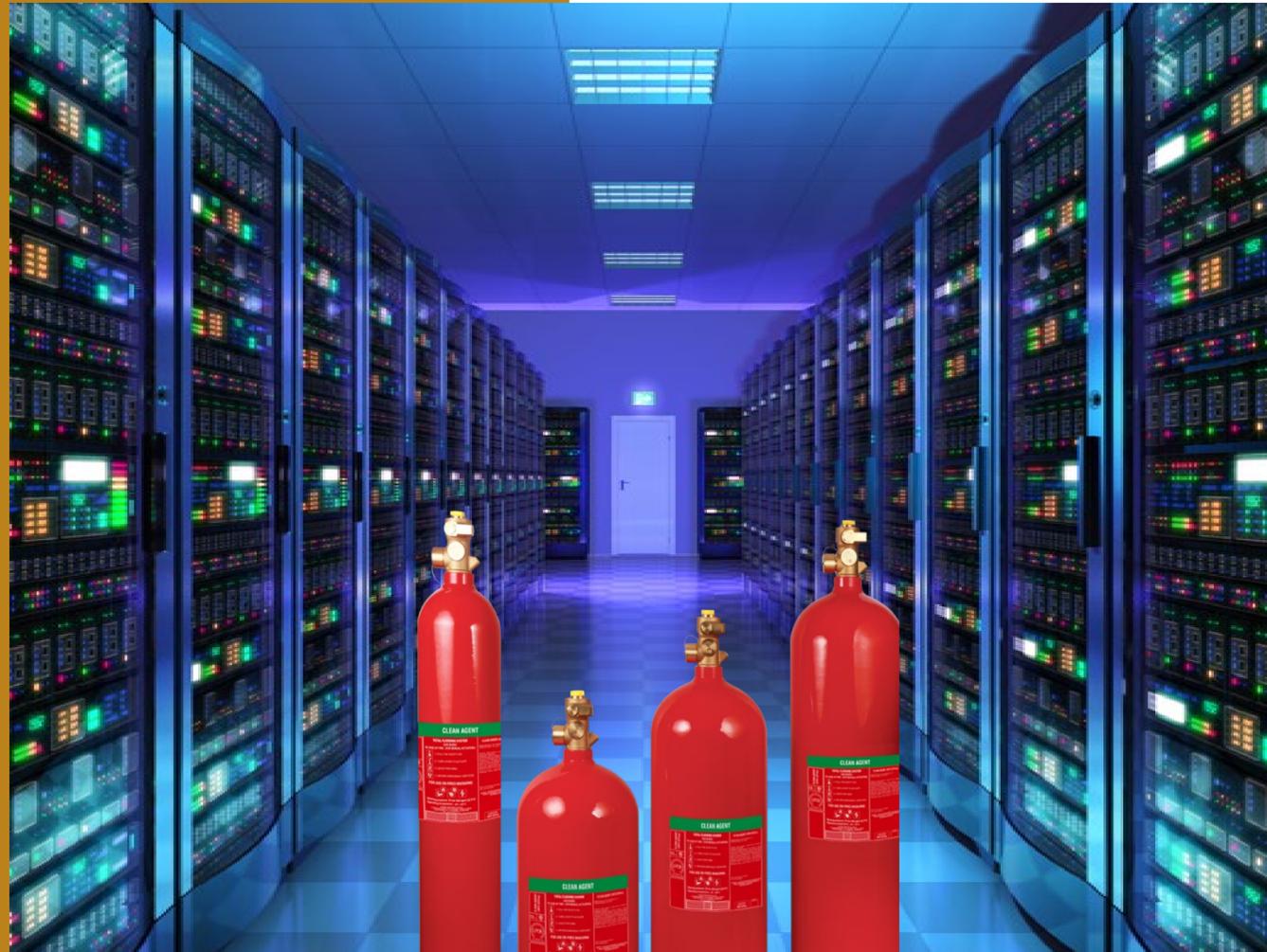
Certified by LPCB to LPS  
1666 Standard



CEASEFIRE'S INERT  
GAS & CO<sub>2</sub> BASED FIRE  
SUPPRESSION SYSTEM

VDS Approved





# 1 HFC227ea Flooding System total flooding system.

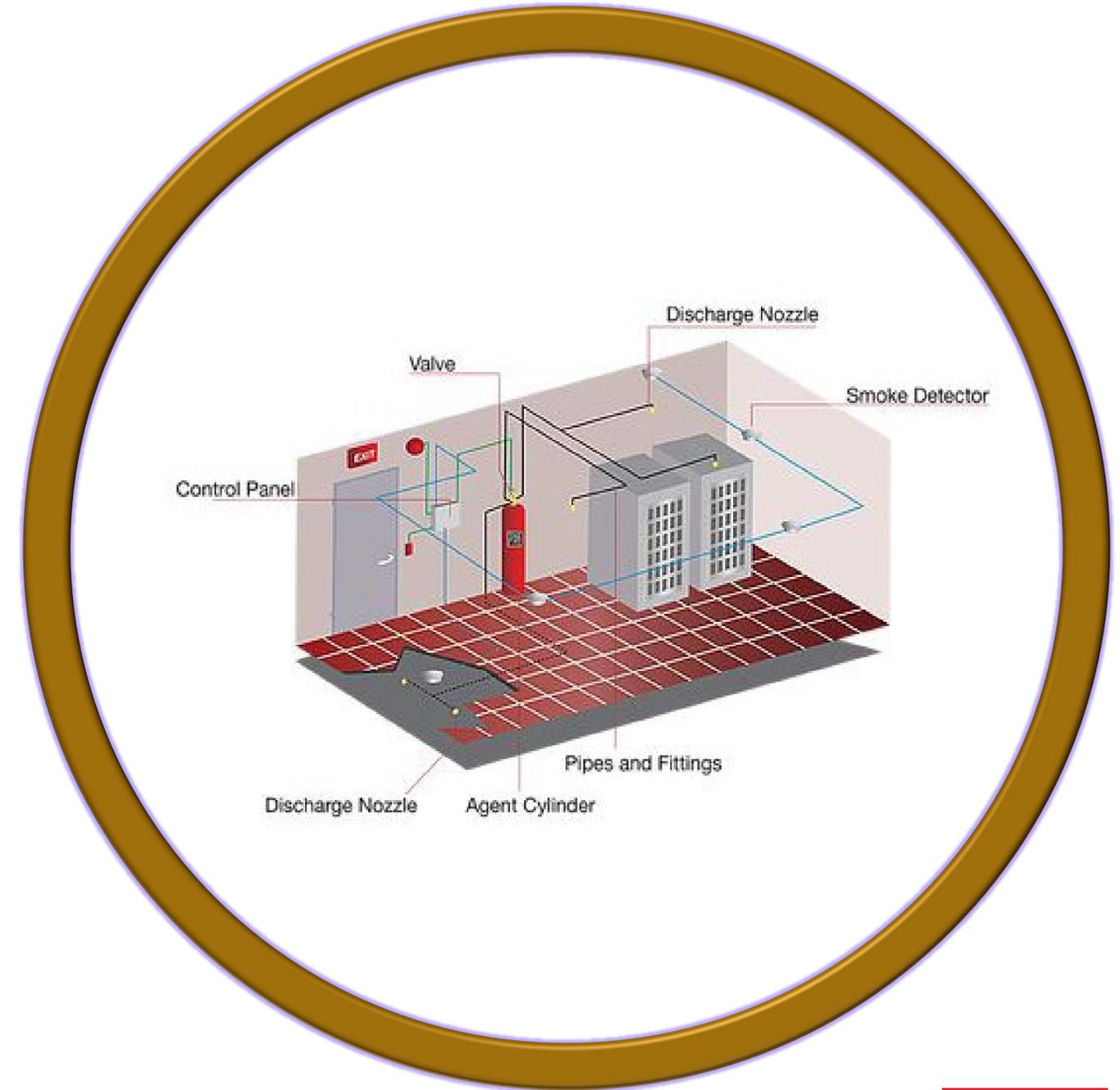
The Ceasefire HFC 227ea Total Flooding System is a LPCB approved, **automated room flooding system**, designed and equipped to initiate firefighting within seconds of the fire being detected.

USP of the system is that it employs **most efficient and environment-friendly extinguishing agent** that can be triggered manually or automatically.



# HOW THE SYSTEM WORKS?

- A wide range of detectors form a formidable network with the control panel
- Detection devices on sensing fire send the signal to the control panel
- Once activated, the impulse triggers a high-pressure solenoid valve that releases the HFC 227ea® gas from the cylinders to the nozzle via a flexible piping network
- 80% of HFC 227ea® 's firefighting effectiveness is achieved through heat absorption and 20% through direct chemical means (action of the fluorine radical on the chain reaction of a flame)
- Large quantities of extinguishing agent are released leading to total flooding.



# KEY FEATURES

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- Fights fire classes A, B, C fires and fires involving electrically-charged devices
- Electronics-friendly
- Ozone, environment-friendly
- High-value risk protection
- No clean-up required after discharge
- Speedy deployment, minimal downtime
- Up to 7 times lower storage requirements vis-à-vis CO<sub>2</sub> and inert gases systems





## 2 Inert Gas & CO<sub>2</sub> Based Fire Suppression System.



Ceasefire's inert gas and CO<sub>2</sub> based suppression system is a VDS approved system that uses a blend of inert or natural gases to extinguish fire.

USP of the system is that it is quick response system based on inert gases that are readily available in natural environment so it causes no collateral damage to the premises & expensive equipment.



# AN OVERVIEW



The system is available in the following configurations:

- CF100: Nitrogen (100%)
- CF541: A blend of Nitrogen(52%) + Argon(40%) + CO<sub>2</sub>(8%)
- CF01: Argon (100%)
- CF55: A mix of Argon(50%) + Nitrogen(50%)

- The Ceasefire Gaseous Fire Suppression systems can be configured for unique gas discharge options
- Typically class "C" electrical fires require a minimum concentration while class "B" flammable liquid fires require a higher concentration or lowering of oxygen levels to put the fire out. Settling on the right approach depends on the type of environment in which the system will be used



# KEY FEATURES

- Safe on Environment
- Electronics friendly
- Zero Toxicity
- Uniform Discharge Flow
- Real Time Design Support
- Scalable up to 240 cylinders per
- Zone wise Mechanical Actuation for localized protection
- VDS Approved System



# 3 Ceasefire Atom X: Retrofittable Fire Suppression System

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Ceasefire Atom X is the next generation specialized fire suppression technology that is available in MAP 90 and clean agent based variants.

The USP of the systems is that doesn't demand any structural change nor does it consume floor space, this innovative system is mounted on the ceiling of the premises where it is installed it also ensures zero downtime.



# AN OVERVIEW

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- The system is robust network of ceiling mounted units, detection devices and a control panel working in tandem with each other.
- On sensing fire, detection devices send the signal to the control panel
- The panel is an advanced one that employs the technique called cross-zoning, wherein it waits for 2 detectors to give a signal so as to confirm a fire episode before the system is finally activated
- On confirming the fire incidence, the control panel activates all ceiling mounted units simultaneously to achieve total flooding and extinguishes fire within seconds



# KEY FEATURES

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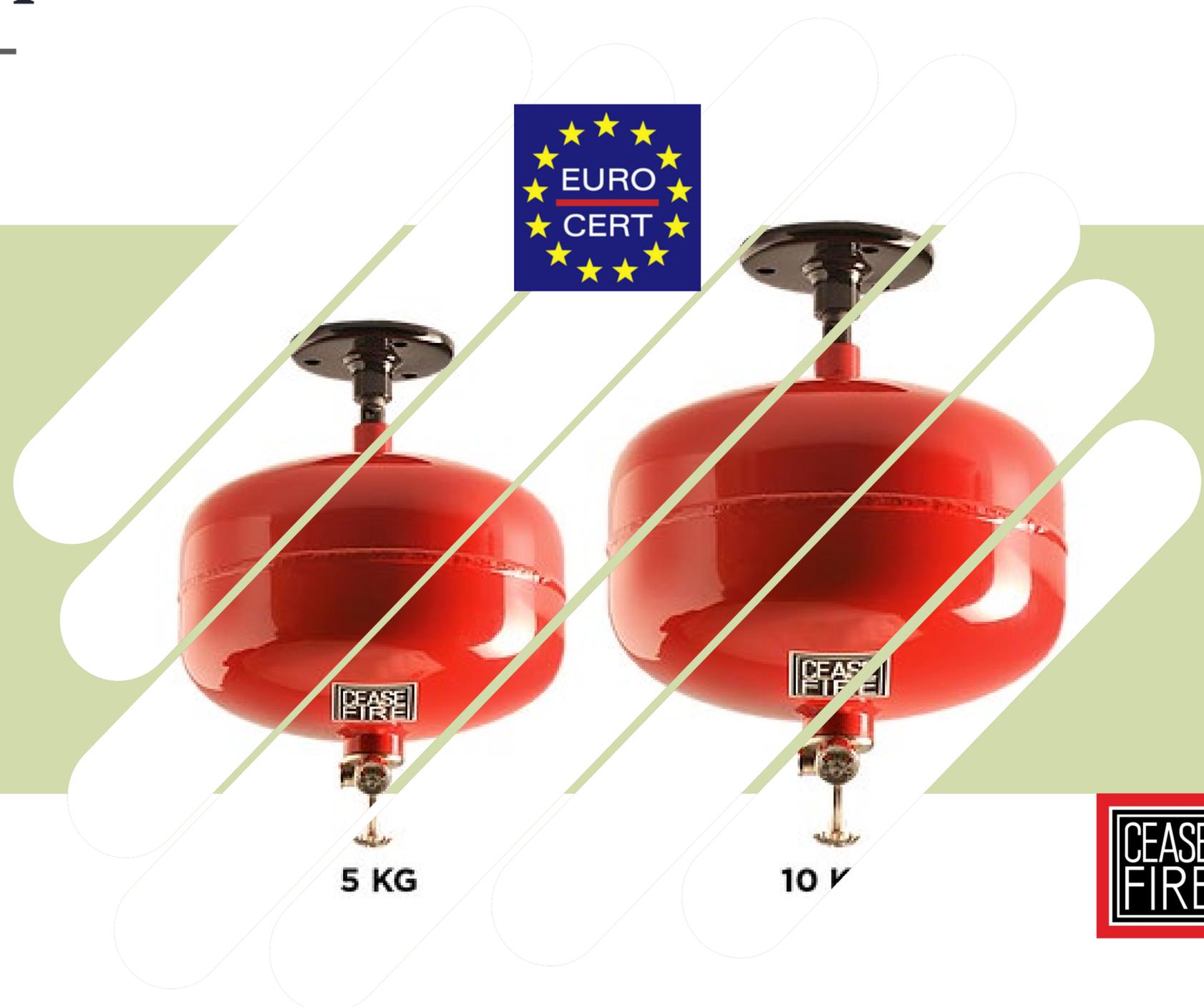
- Based on MAP 90 and HFC 227ea Gas based variants
- Requires minimal fittings and piping
- Cost effective solution vis-à-vis other room suppression systems
- Available in easy to install units
- Intelligent detection module to reduce false alarms
- Ceiling mounted so consumes minimal productive space
- Tamper proof design



# 4 CEASEFIRE STANDALONE SUPPRESSION SYSTEM

Ceasefire's Ceiling Mounted extinguishers are independent suppression systems in themselves. The system is available in MAP 90 and clean gas based variants.

The USP of the systems is that the system provides localized protection. It detects and extinguishes fire all by itself, without any external intervention.



# AN OVERVIEW



Bulb Variants

- Ceasefire's stand alone suppression systems, with their automatic detection and activation feature are ideal fire fighting solution for premises that require localized protection
- Because they are ceiling mounted, they are also useful in areas that are beyond the range of normal fire extinguishers, such as high chemical stacks, warehouses etc.

## System Working:

- The system comes equipped with an in-built detection module
- Heat from fire ruptures the in-built detection bulb activating the system
- The system releases the extinguishing agent leading to localized flooding



# KEY FEATURES

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- Based on MAP 90 and HFC236fa / HCFC123 based clean agent variants
- Fights class A, B, C and electrically started fires
- Rapid and quick installation
- Ensures zero downtime
- Ceiling mounted therefore tamper proof
- CE certified , and conforms to ISI standards



# 5 IN-PANEL TUBE-BASED MICRO ENVIRONMENT SUPPRESSION SYSTEM

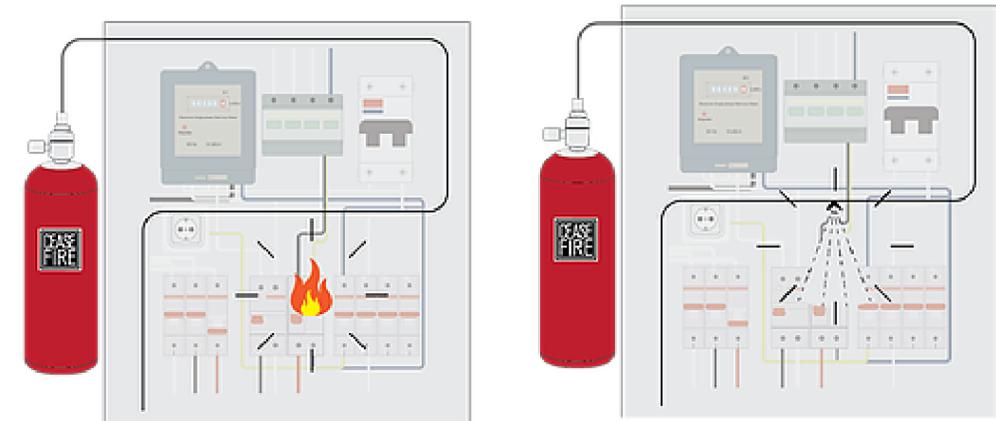
Ceasefire's Quick Response System, a revolutionary firefighting solution which combines ground-breaking technology with functional simplicity to keep what's precious, safe

The USP of the systems is that it protects micro environments using superior technologies like HST and clean agent based gases. It is LPCB approved system for natural and forced air flows.



# AN OVERVIEW

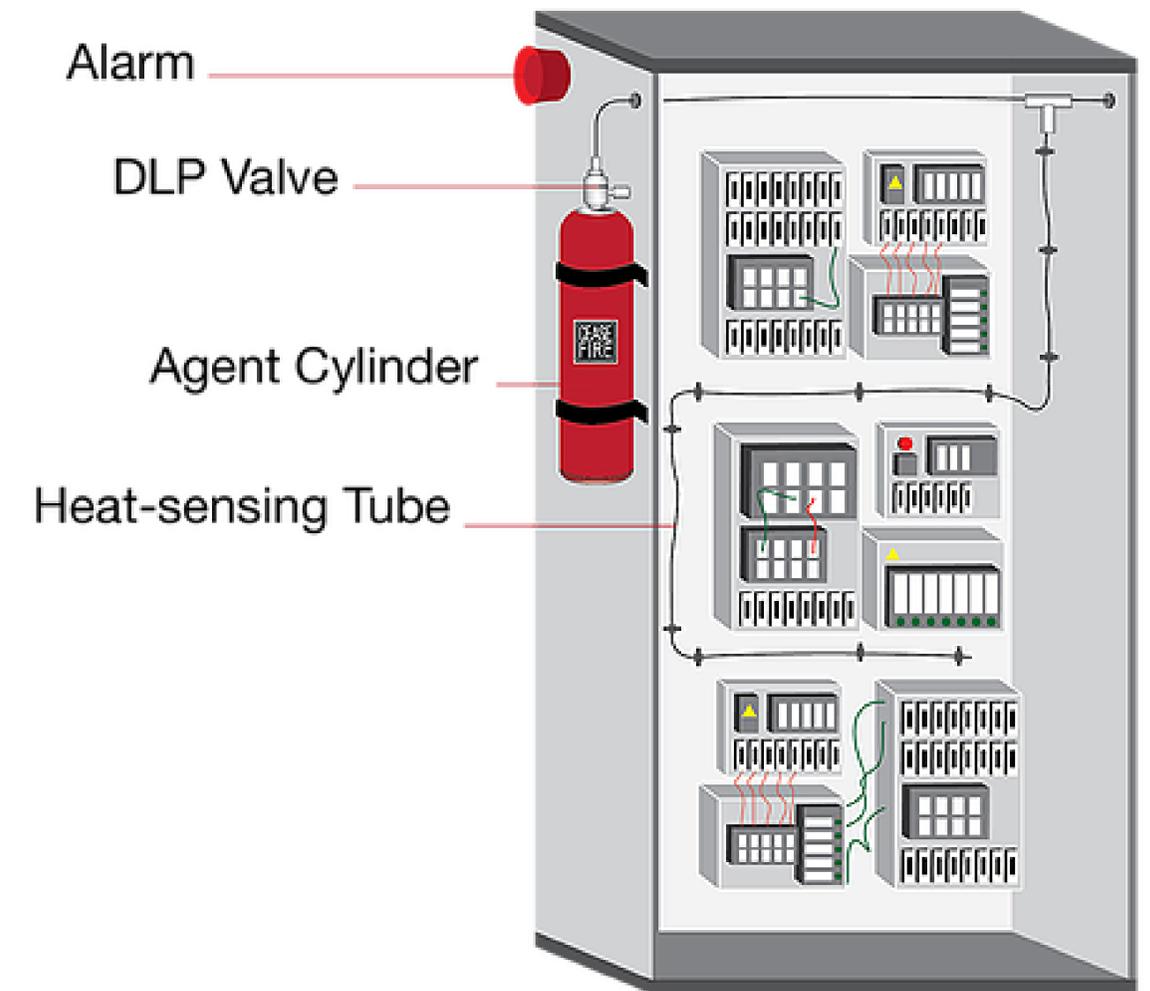
- The most prominent feature of the Ceasefire Quick Response System is the specially designed heat-sensitive pneumatic polymer tubing
- It is connected at one end to a Ceasefire extinguishing agent container, while the rest of it runs unobtrusively throughout the area at risk
- When the flame comes in contact with the heat-sensitive tubing and reaches a temperature of 150 - 180°C, the tubing bursts open at that exact spot and forms a miniature nozzle
- The pneumatic mechanism triggers the valve of the extinguisher and sprays the extinguishing agent either directly out of the HST or through the steel conduit



**Heat Sensing Tube Based Fire Detection**

# KEY FEATURES

- Fights class A, B, C fires and fires involving electrically-charged devices
- Self-actuated not dependent on external power source
- Electronics-friendly
- High-value risk protection
- Residue-free, no clean-up required after discharge
- 24-hour protection
- Flexible design allows protection in areas that are difficult to access and let alone accommodate a suppression system
- Rugged design can withstand harshest conditions



**Isometric View of the System**





TESTED BY  
**bsi.**

# 6 CEASEFIRE MINI

Ceasefire's Mini the smallest suppression system in the world that fire proofs small enclosed spaces.

The USP of the systems is that it protects micro environments that are too small for any other system. It is available in Adaptive and Intuitive variants that can fit inside space of any size.



# AN OVERVIEW

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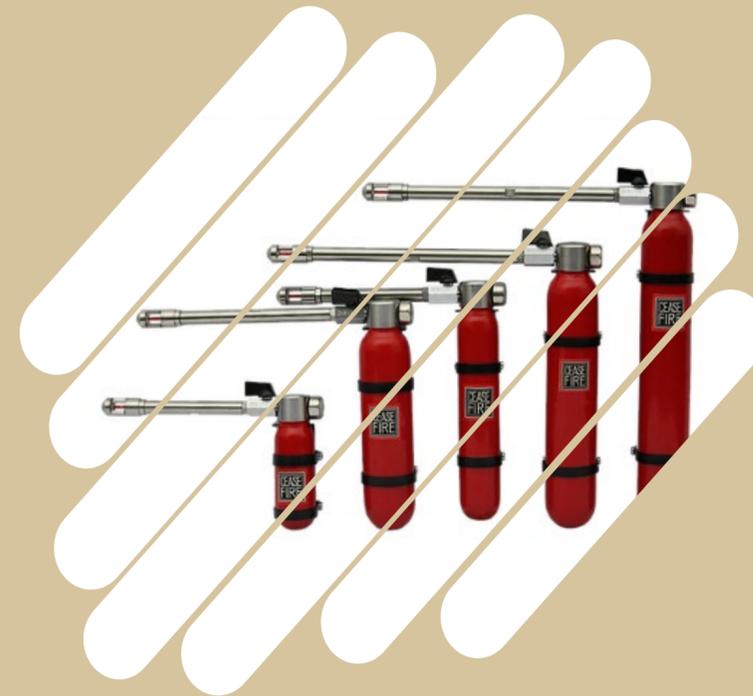
The Mini is a state-of-the-art micro environment suppression system designed by Ceasefire. The size of your palm, it sits snugly inside small enclosed spaces that are vulnerable to fire. When the temperature of the micro-environment exceeds a preset limit, the Mini swings into action and automatically extinguishes the fire.

Place it inside your server. Pop it in the fuse box. The Mini fits anywhere, and protects everywhere!



## Mini – Intuitive System

The Mini – Intuitive System is a direct suppression system which protects the microenvironment from inside. Place it inside or attach it to the inner wall of the microenvironment, and the Mini is ready to protect.



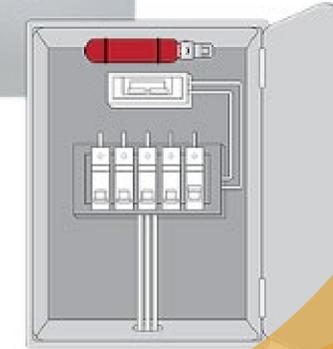
## Mini – Adaptive System

The Mini – Adaptive System is an indirect suppression system designed for those microenvironments which are too small to even accommodate a Mini, let alone other firefighting systems. In this case, the Mini container is installed outside, with its heat-sensitive glass bulb inside the micro-environment.



# KEY FEATURES

- Automatic firefighter does not require any prompt to start firefighting
- Adaptable size for extremely small spaces
- Electronics-friendly
- Does not depend on external power supply
- Truly versatile fire fighter, works on all classes of fire
- Different temperature settings: mini variants are available for 3 heat thresholds – 57°C, 68°C and 93°C
- Protects all micro-environments: available as an intuitive or adaptive system, the mini protects everywhere



Intuitive System



Adaptive System



# 7 CF3000 - SELF CONTAINED WATERMIST- BASED HYDRANT



It's highly dependable standalone firefighter that comes with immense fire fighting power. Being a self contained unit, it is not dependent on external factors for fire fighting.

USP of the system is that it is an ideal mode of combat against fire, where first line of defense ; the fire extinguishers have failed.

# AN OVERVIEW

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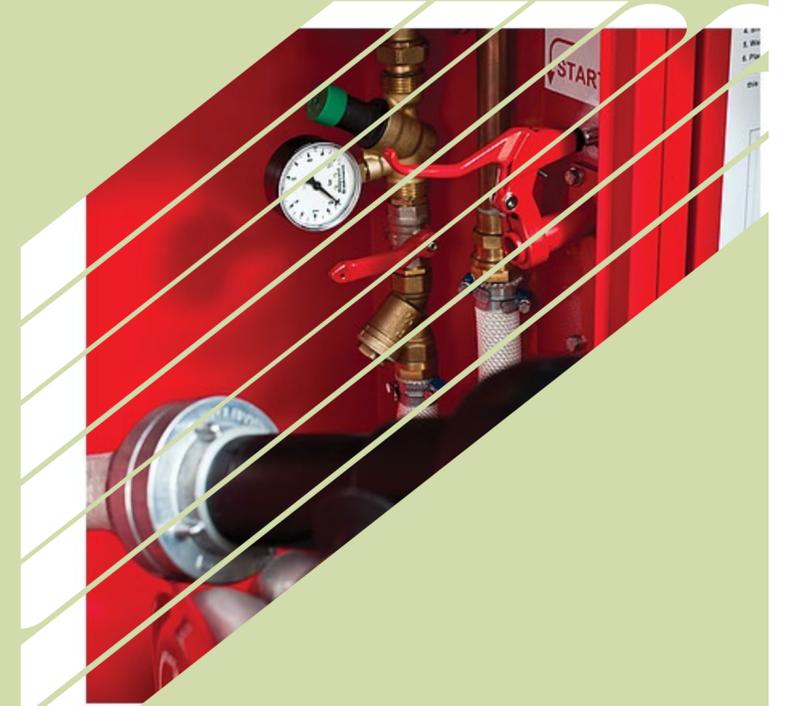
- Featuring the same potent firefighting power as conventional hydrants with much more efficient usage of water, CF 3000 uses just 60 litres of water where a normal hydrant would need thousands of gallons to achieve the same results
- It also features an AFFF Foam additive option for increased extinguishing power
- Being a self-contained, standalone firefighting device, CF 3000 is suitable for locations with no ready supply of compressed air and water
- This easy-to-use system features an in-built pressure container, water storage unit and an optional foam supply unit. In an emergency, all you need to do is pull out the long hose, activate the device and instantly you'll be armed with CF 3000's immense firefighting power



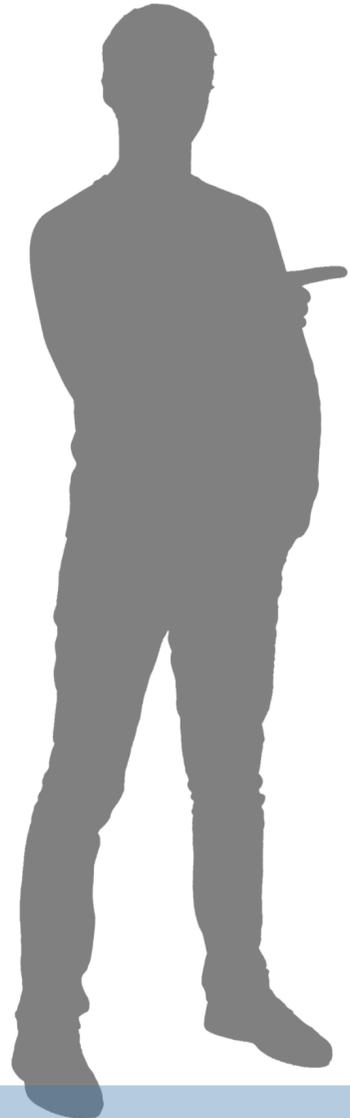
# SYSTEM FEATURES

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- **Effective use of water** :100% water is converted into mist, thanks to a vast evaporation surface, which evaporates in the fire environment
- **Fighting larger fires** : CF 3000 ensure 3 times further reach than normal Watermist hydrants that emit droplets of 100 – 150 microns by converting water into small droplets of less than 40 microns
- **Thermal barrier** : Thanks to large surface coverage, the mist's cross section of water droplets create a barrier against radiation
- **Fights Classes:** CF3000 work on all classes of fire as well as electrically started fires (E)
- **Easy on the environment** : The mist generated by these firefighting systems is 100% non toxic and ecofriendly



# WHAT MAKES CEASEFIRE SUPPRESSION SYSTEMS THE BEST IN THE WORLD?



- Customized design for every premises
- A array of extinguishing agents to suit any kind of requirement
- Highly advanced detection module
- 24X7 protection
- Automatic as well as manual activation
- Certified by top notch quality agencies of the world





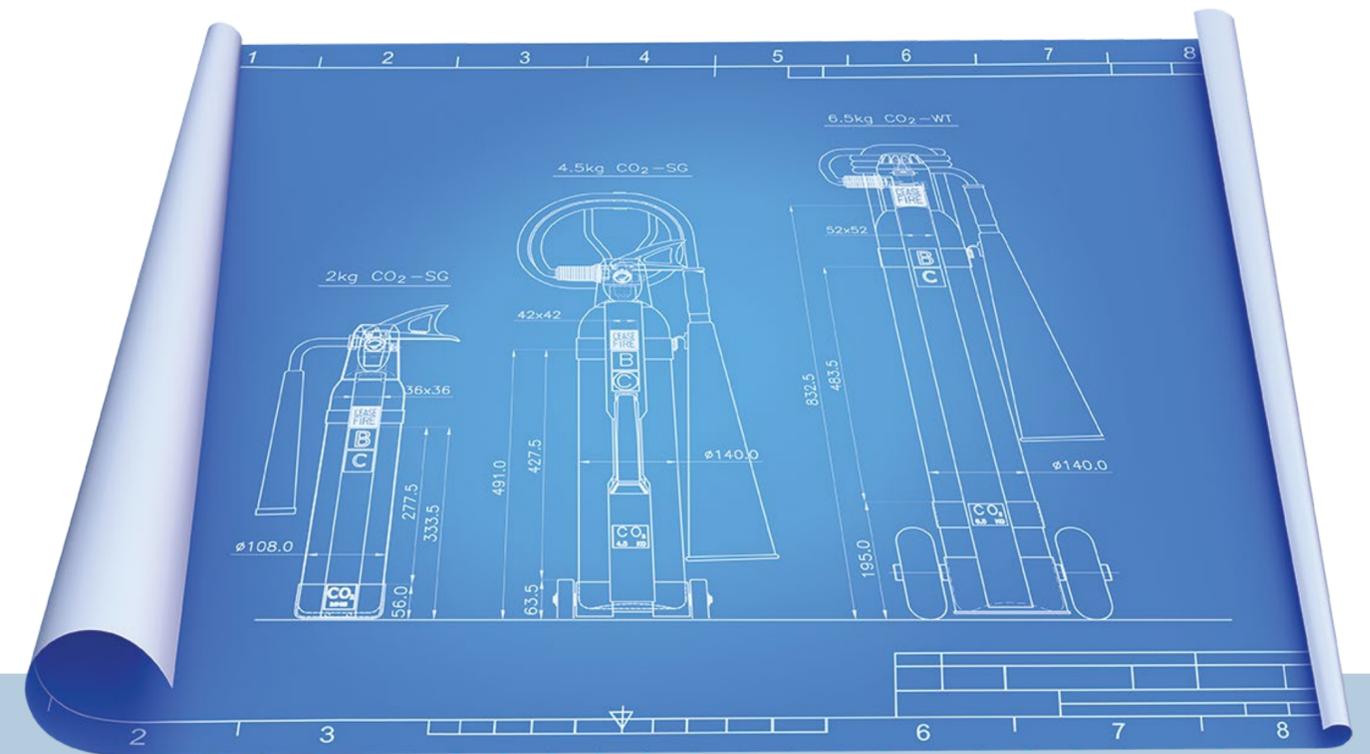
**EVERY CEASEFIRE FIRE  
SUPPRESSION SYSTEM IS  
CUSTOMIZED FOR THE  
PREMISES IT IS  
INSTALLED AT.**

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# IN-HOUSE DESIGN CELL.

The true advantage of Ceasefire's Fire Suppression Systems come with the company's In-house Design Capability. The Design cell comprises of a team of qualified Engineers, CAD Designers and Fire Experts who have extensive experience of customizing fire suppression systems for a wide variety of premises.



# COMPREHENSIVE DESIGN NORMS.



## A through survey of the premises

The Ceasefire Design Cell Experts, carefully study the premises where the suppression system is to be installed, keeping in mind the premises at large, the fire hazards associated with the premises, challenges around collateral damage and the assets that need to be protected at large.



## Adherence to protocols

The design of every system follows predefined guidelines and principles laid out by the quality certification agencies and nothing is ever done outside of the prescribed standards.

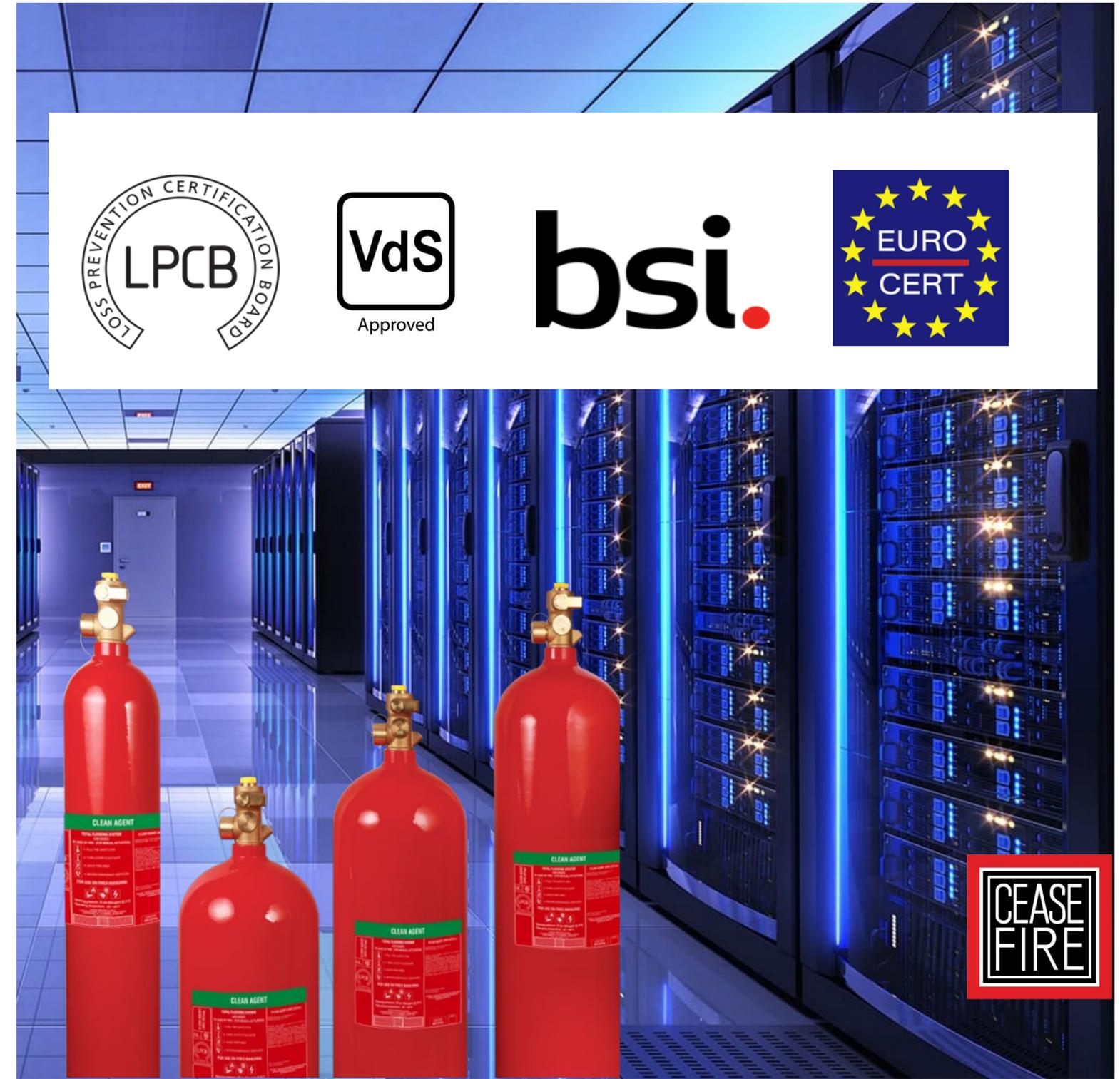


## Customized Solutions

The outcome is a system that adheres to all the guidelines in the most precise manner and safeguards the area in a in the best possible way.



Our suppression systems conform to the highest global standards and are certified by top-notch agencies in the world.

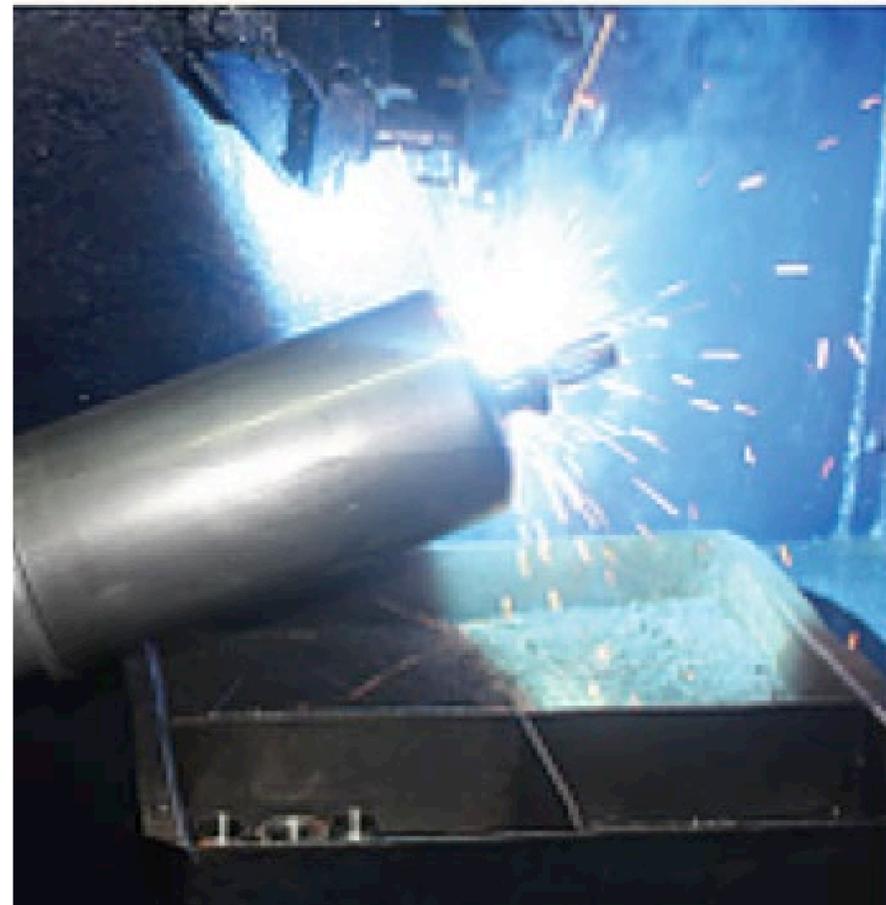


# These Certifications are a Testimony to Our Impeccable Quality.

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Ceasefire Suppression Systems, are built to perfection and have endured the most brutal tests for quality and performance..

Today, Ceasefire range of fire suppression systems conform to the most coveted quality certifying agencies of the world like LPCB, VDS, BSI.





# What do these Certifications actually mean for the end user?



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CEASEFIRE'S INERT  
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VDS Approved

# A holistic quality audit



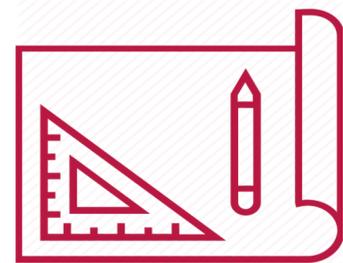
A comprehensive audit that brings into its purview everything starting from Sourcing of raw materials & important components to Design of the system, Manufacturing, Installation and Service, the process guarantee: checks at every stage.

# Audits on After Sales Services and Market Checks



The audit does not just end at the finished product but also includes checks at the customers premises to assess the performance of existing systems.

# Design & Installation as per global standards



A big differentiator of quality of Ceasefire Suppression systems is how these are designed and installed. Ceasefire's in-house design cell follows the most comprehensive design criteria, where every system is design for the premises where it is installed at. These design and installation norms and standards are prescribed in great detail by the certifying agency and need to be followed to the last letter, mandatorily.



# Globally Recognised



The global certifications of Ceasefire systems ensure standardized quality in our systems all over the world. A huge advantage to Global corporations who wish to have consistent, world-class quality across sites in multiple countries.

# Transparent Online Verification



These certifications are so open and transparent that customers can cross-check these on Redbooklive at any time for their satisfaction or if necessary to do so before making a purchase. .



# Ceasefire Industries Pvt. Limited



[www.ceasefireworld.com](http://www.ceasefireworld.com)



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