ASHA
ENTERPRISE

ASHA ENTERPRISE

Protecting Lives, Securing Futures.

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ABOUT US

ASHA ENTERPRISE, founded in 2013, is a forward-thinking and innovative company dedicated to introducing advanced fire safety and electronic security solutions in India. The company was established with a clear vision to serve a wide range of industries, including pharmaceuticals, banking, hospitality, government, automobiles, mining, and other industrial sectors.

With a strong commitment to quality and customer satisfaction, ASHA ENTERPRISE focuses on delivering reliable and high-performance fire safety and electronic security systems tailored to meet diverse industry needs.

The company is actively involved in training, product support, and design services. It has consistently created value for its customers by leveraging strong engineering capabilities, streamlined operations, and a commitment to quality standards.

Over the years, ASHA ENTERPRISE has supplied its clients with products that serve as alternatives to imported solutions, along with customized offerings developed in-house. These products have been officially approved by Indian government regulatory authorities for their quality, performance, and reliability.

Over the past three years, the company has focused on introducing eco-friendly clean agent gases, equipment, and systems. Today, it proudly stands among the leading suppliers of FM 200, HFC 227EA, HFC 236FA, HFC 123, HFC 125, NOVAC 1230, and FK-5-1-12.

ASHA ENTERPRISE also takes pride in offering FirePro aerosol-based fire suppression systems, which are certified to meet more than 50 international standards.

VISION

Our vision is to emerge as a globally recognized and environmentally responsible leader in the field of clean agent fire suppression systems, delivering advanced solutions that meet and exceed the highest international standards. We strive to continuously embrace innovation, modern technology, and evolving industry knowledge to enhance the effectiveness and reliability of our systems. With the support of a dynamic team of skilled professionals, specialist engineers, and technical experts, we are committed to minimizing fire risks across residential, commercial, and industrial environments.

We envision creating safer spaces by not only providing high-quality fire protection solutions but also by promoting awareness and understanding of fire safety practices. Through our dedication to sustainability, safety, and excellence, we aim to contribute to a future where fire protection standards are elevated to match those of developed nations, ensuring the protection of life, property, and the environment.

ABOUT US

MISSION

Our objective is to establish ourselves as a trusted partner for manufacturers and system integrators of clean agent fire suppression solutions, both in India and internationally. We are dedicated to delivering high-quality products and services that consistently meet customer expectations and comply with stringent quality standards. By focusing on reliability, performance, and customer satisfaction, we continuously strive to enhance our processes and improve our offerings. Our commitment lies in maintaining consistent quality while pursuing ongoing improvement to ensure long-term excellence and strong partnerships.

GOAL

Our aim is to become a leader in our industry by delivering top-quality fire protection equipment and safety solutions, supported by exceptional service standards. We are committed to providing best-in-class products while ensuring the highest level of customer satisfaction through reliability, performance, and continuous improvement.

OUR PRODUCTS

Clean Agent Fire Suppression/Flooding System

Aerosol Base Fire Suppression/Flooding System

Co2 Fire Suppression/Flooding System

Kitchen Fire Suppression/Flooding System

Vehicle Fire Suppression/Flooding System

Automatic Clean Agent Tubing System

CLEAN AGENT FIRE SUPPRESSION/FLOODING SYSTEM

Clean agents such as HFC-227ea and FK-5-1-12 are widely used in fire suppression systems because they leave no residue, are electrically non-conductive, and are safe for sensitive equipment and occupied spaces. These gases have minimal environmental impact and do not deplete the ozone layer. They are stored in cylinders pressurized with nitrogen and are designed for rapid discharge into protected areas.

The extinguishing process works by absorbing heat and interrupting the combustion chain reaction, effectively controlling fire without significantly reducing oxygen levels. These systems are compact, require less installation space, and are easy to maintain. They typically discharge within about 10 seconds to quickly achieve the required concentration and minimize damage.

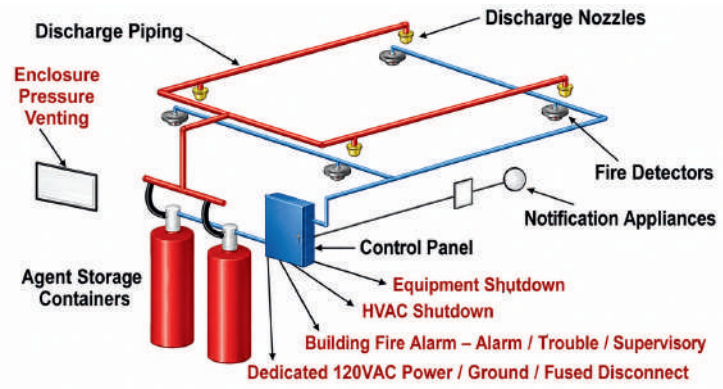
To ensure system effectiveness, the protected enclosure must be properly sealed and tested using methods like the Door Fan Test to maintain the agent concentration for a sufficient duration.

System design is carried out in accordance with internationally recognized standards, including:

- NFPA 2001 – Clean Agent Fire Extinguishing Systems, issued by the National Fire Protection Association
- VdS 2381 – Fire Extinguishing Systems Using Halocarbon Gases

APPLICATONS

- Art gallery, Museum, Archives
- Computer
- Control Room
- Record & Storage Facilities
- Petrochemical Installations
- Pharmaceutical & Medical Facilities
- Electronics & Data Processing Warehouses
- Flammable liquids
- Areas normally occupied by personnel
- Engine Rooms on Ships



ADVANTAGES

- Low cylinder installation space requirement
- Suitable for protection of occupied areas
- Fast extinguishment thanks to rapid
- Extinguishing agent discharge
- Low installation and maintenance costs
- Does not conduct electricity
- Leaves no residues after discharge
- No potential for ozone layer depletion

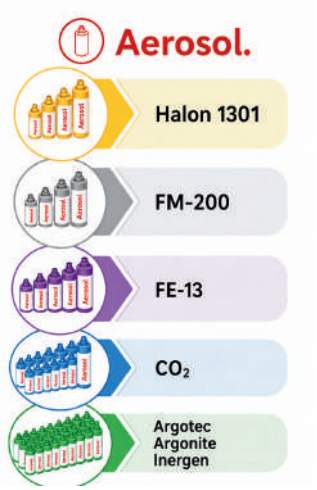
AEROSOL TECHNOLOGY

Aerosol Technology

Aerosol Technology provides a cost-efficient and reliable solution for protecting special hazard fire risk areas. This advanced suppression technology can reduce overall equipment and lifecycle costs by up to 35% compared to conventional fire suppression systems. The savings come from lower installation costs, minimal maintenance requirements, and reduced long-term servicing expenses

Aerosol Core Technology

Aerosol fire suppression systems are built around an advanced solid compound technology. When activated, the compound transforms into a highly effective, rapidly expanding condensed aerosol that quickly suppresses fire. The aerosol disperses evenly throughout the protected area using its own generated momentum, ensuring complete coverage. Fire suppression is achieved by interrupting the chemical chain reactions within the flame, rather than reducing oxygen levels or relying only on cooling methods used in conventional fire suppression approaches.



AEROSOL EFFICIENCY

- 4x more efficient than Halon 1301
- 6x more efficient than FM-200
- 7.5x more efficient than FE-13
- 15.5x more efficient than CO_2
- 40x more efficient than inert gases

Aerosol Technology delivers efficient and reliable fire suppression solutions using advanced core technology. These systems are designed for both standard and specialized fire protection applications.

Today, Aerosol protects critical assets in over 110 countries worldwide.

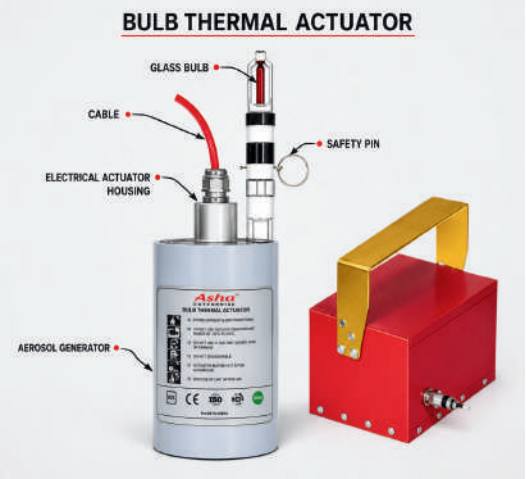
APPLICATONS

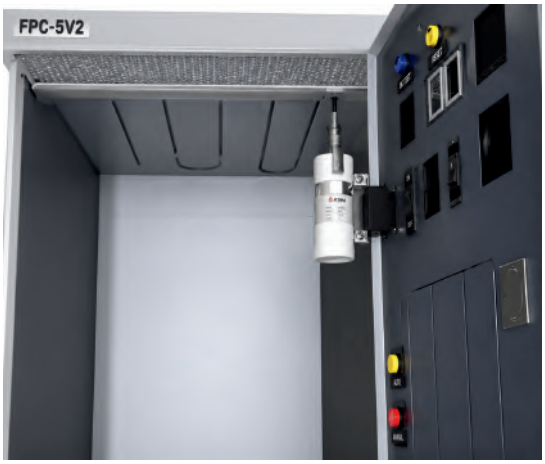
- DG Rooms
- UPS Rooms
- Battery Rooms
- Electrical Rooms
- Electrical Panel
- Warehouses
- Historic Buildings
- Museums
- Document Rooms
- Archives
- Oil & Gas
- Mines
- Strong Rooms
- Defence Vehicles
- Automobiles
- Clean Rooms
- Server Rooms
- Telecom
- Data Centre
- and many more

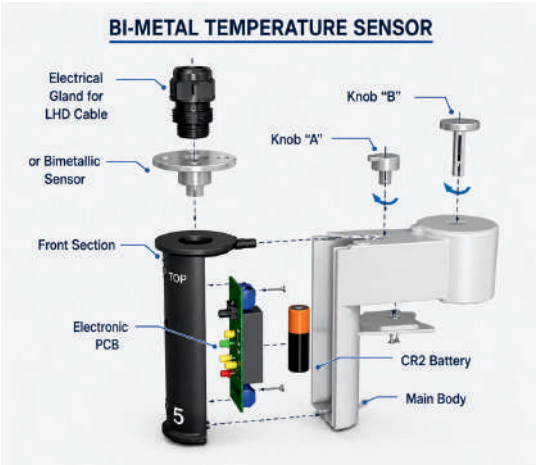
AEROSOL BASE FIRE SUPPRESSION SYSTEM

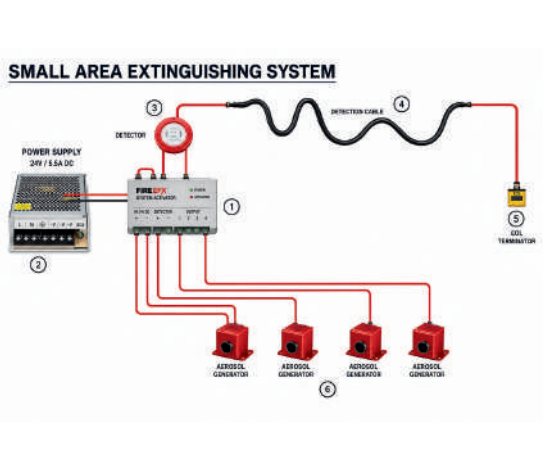
Basic System Components Required

- Fire Alarm and Extinguishing Panel
- 1st Stage Sounder (Bell)
- 2nd Stage Sounder/Beacon (Horn/Strobe)
- Gas Release Sign
- Panel input Zone 1, Smoke Detector
- Panel input Zone 2, Heat Detector (RoR)
- Extinguishant Disablement Switch (System Isolation Switch)
- Sequential Activator
- FirePro Unit
- Connection port to shut off extractor fan or close fire dampers
- Manual Release Button
- System Abort (Hold) Switch

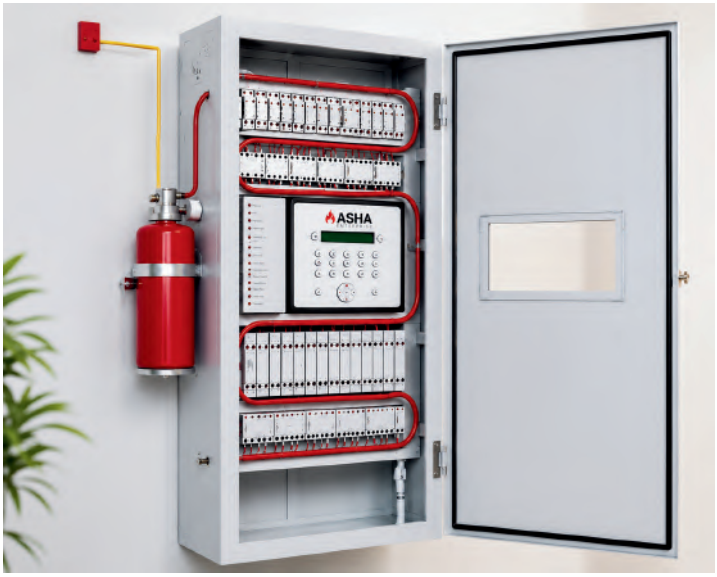








AUTOMATIC CLEAN AGENT TUBING SYSTEM



ASHA ENTERPRISE offers an advanced automatic clean agent tubing system designed for rapid and reliable suppression of fires in electrical panels and cabinets. The system detects and extinguishes fires at the earliest stage, minimizing downtime and preventing costly damage.

Operating independently, it ensures continuous protection for critical equipment. The system is integrated with a monitoring panel that provides real-time status indications and can be seamlessly connected to existing BMS/SCADA systems for efficient supervision.

The system uses UL Listed, environmentally friendly and globally recognized non-toxic clean agents such as FM200 (HFC227ea), FE36 (HFC236fa), and Novec 1230 (FK-5-1-12) to provide fast and reliable fire suppression. It effectively controls and extinguishes fires at an early stage, preventing their spread within cabinets and minimizing potential damage.

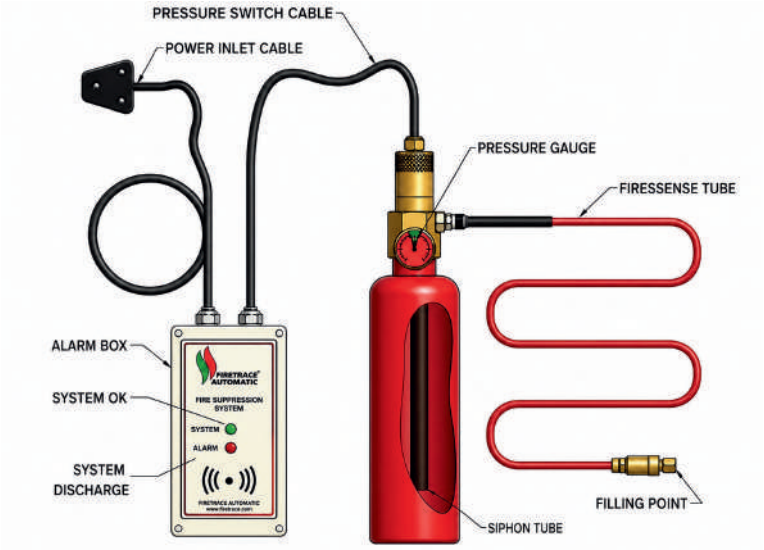
The system is available in two versions:

- **Direct Low Pressure (DLP)**
- **Indirect Low Pressure (ILP)**

with the selection depending on the size and type of the enclosure.

Clean agent systems provide fast fire suppression, minimize damage, and require very little space. They operate cleanly without leaving residue, avoiding expensive post-fire cleanup unlike water-based systems. Engineered for quick response, they support uninterrupted operations and are well-suited for telecom, data centers, switchgear, and advanced medical facilities.

DIRECT LOW PRESSURE SYSTEM



This is a direct-type system, meaning both detection and discharge of the clean agent (HFC227ea, HFC236fa, or FK5-1-12) are controlled by the detection tube itself.

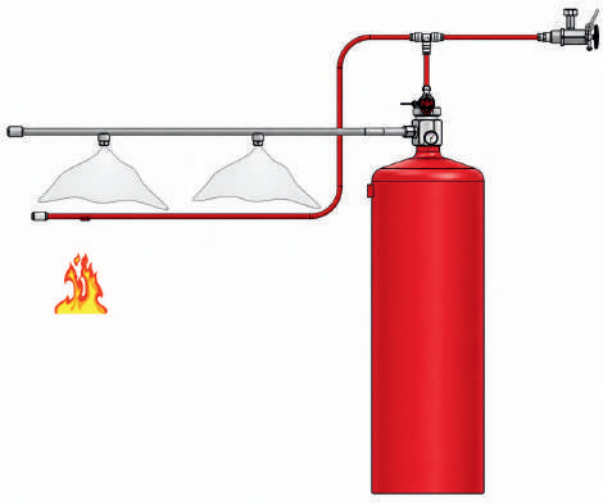
The system functions by identifying a fire condition and releasing the extinguishing agent through a detection tube that is directly connected to the cylinder valve. This tube is installed throughout the protected area and remains continuously pressurized.

When exposed to fire or elevated temperatures, the detection tube weakens and ruptures at the hottest point. Once the tube breaks, it creates an opening through which the extinguishing agent is immediately discharged.

IN DIRECT LOW PRESSURE SYSTEM

This system is an indirect type, where activation occurs when the heat-sensitive detection tube ruptures, releasing pressure and opening the cylinder valve. The extinguishing agent is then delivered through a separate piping network to the discharge nozzles for effective coverage.

It is suitable for larger areas or applications requiring targeted suppression, and it can be enhanced with additional features such as manual actuation and control panels for improved monitoring and operation.



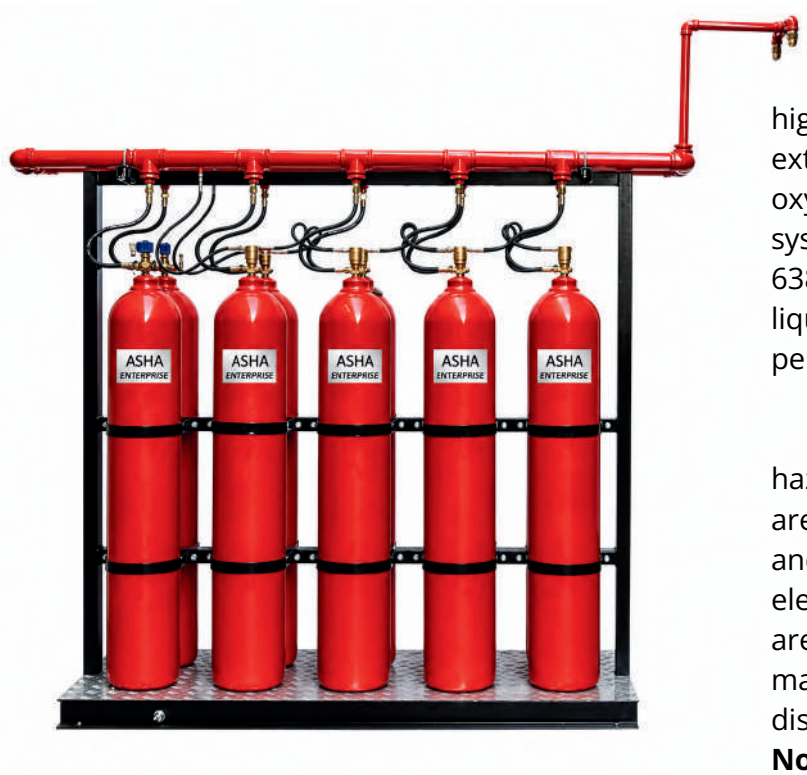
APPLICATONS

- Electrical and electronic cabinets
- Data processing and computer storage cabinets
- UPS units and telecommunication areas
- Generator and transformer enclosures
- Flammable chemical storage cabinets
- CNC & VMC machining centers

ADVANTAGES

- Fast and reliable fire detection
- Clean agent system (safe, no residue, no cleanup)
- Easy installation in new or existing cabinets
- Non-conductive detection tubing with direct fire suppression at source

CO2 FIRE SUPPRESSION SYSTEM

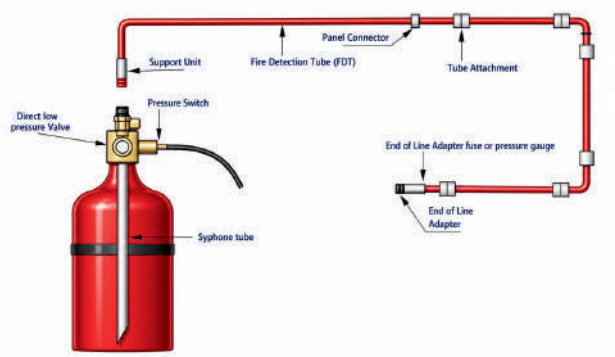


CO_2 is a colorless gas with a density about 60% higher than air and is widely used as an effective fire extinguishing agent. It suppresses fire by reducing oxygen levels and removing heat. The design of CO_2 systems follows standards such as NFPA 12 and BIS 6382. The gas is stored in seamless steel cylinders in liquid form, typically filled at a ratio of about 0.667 kg per liter.

The number of cylinders required depends on the hazard level, and for larger systems, multiple cylinders are connected through a manifold using flexible hoses and check valves. The main (master) valve is electrically operated, while secondary (slave) valves are pressure activated. The system can be operated manually or automatically, with controlled CO_2 discharge for effective fire suppression.

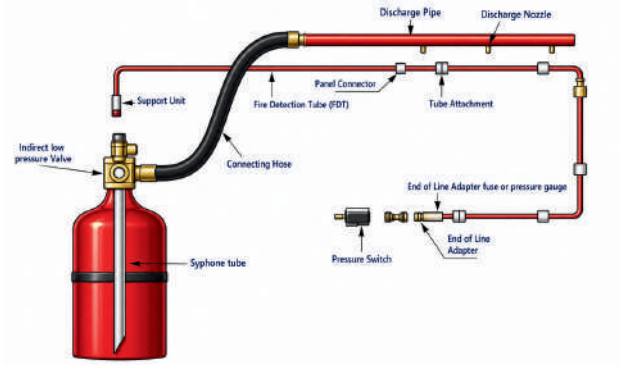
Note : Co2 Use in Unman area for total Flooding.

DIRECT HIGH PRESSURE [DHP]



This system is known as a direct type, where both detection and discharge of the CO_2 agent are carried out through the detection tube itself. The tube is installed within the protected area and remains pressurized while connected to the cylinder valve. In case of fire, heat causes the detection tube to rupture at the affected point, releasing CO_2 directly onto the fire source. The system operates independently without any electrical power, ensuring reliable and immediate fire suppression.

IN DIRECT HIGH PRESSURE [IHP]



The detection tube acts only as a trigger, activating the cylinder valve when a fire is detected. The CO_2 agent is then discharged through a separate piping system and nozzles connected to a fixed supply.

Detection and discharge are carried out independently, making the system highly efficient. It is suitable for larger areas and ensures faster and more effective distribution of the extinguishing agent.

APPLICATONS

Ideal for protecting paint and varnish production areas, as well as LT panels and control rooms in power plants. Suitable for applications like paint booths, powder coating units, transformers, substations, turbines, rolling mills, and areas such as false floors and cable shafts.

VEHICLE FIRE SUPPRESSION SYSTEM

CAPACITY	AVAILABLE IN	OPERATING PRESSURE
1 KG	POWDER & FOAM	15 Bar
2 KG	POWDER & FOAM	15 Bar
5 KG	POWDER & FOAM	15 Bar
10 KG	POWDER & FOAM	15 Bar
18 KG	POWDER & FOAM	15 Bar
45 KG	FOAM	15 Bar
106 KG	FOAM	15 Bar

Includes :-

- Fire Detection.
- Fire Indicator & Control Panel.
- Manual Actuation Mechanism.
- Fire Alarm & Visual Indicator.
- Fire Extinguishing Agent Container.
- Discharge Pipe Work And Nozzles.

COMMON FIRE HAZARDS IN LARGE MINING & QUARRYING VEHICLES

THE PROBLEM

ENGINE COMPARTMENT - High-temperature parts like turbochargers, exhaust manifolds, and fuel lines can ignite leaked oil, fuel, or grease, leading to fire hazards.

HYDRAULIC LINES & MANIFOLD - Leaks or ruptures in high-pressure fuel or oil lines can create fine sprays that ignite upon contact with hot surfaces, causing spreading fires.

ELECTRICAL COMPONENTS (MOTORS, PUMPS & BATTERY) - Alternators, starter motors, and batteries may develop short circuits due to dust, debris, or moisture during operation, resulting in fire risks.

HYDRAULIC & COOLING PUMPS - Overheating or continuous heavy use can cause pump or motor failure, potentially leading to electrical fires.

BELLY PAN, BRAKING & DRIVE TRAIN - Heat-generating components such as transmissions, torque converters, and brakes can ignite accumulated oil or fuel residues under stress.

SOLUTION

RAPID FIRE RESPONSE - Detects and suppresses fire within seconds, minimizing damage and downtime.

POWER-FREE DETECTION - Pneumatic linear heat tube enables automatic activation without external power.

24/7 RELIABLE PROTECTION - Combines fast knockdown of ABC dry powder with cooling and smothering action of wet chemical.

BUILT FOR HARSH CONDITIONS - Engineered and tested to perform in harsh and demanding environments.

COMPACT & EASY INSTALLATION - Lightweight, pre-engineered design suitable for both OEM integration and retrofit applications.

DURABLE CONSTRUCTION - Uses corrosion-resistant stainless-steel components for long service life.

KITCHEN FIRE SUPPRESSION SYSTEM

KITCHEN - WET CHEMICAL BASED

Kitchen fires are highly intense and commonly caused by burning cooking oil, with LPG increasing the risk in commercial environments. Our Kitchen Fire Suppression System is designed to protect cooking equipment, hoods, and ducts using a wet chemical agent that effectively controls grease fires without causing additional damage. Housed in a durable stainless-steel unit, the system includes heat detectors, sensing cables, nozzles, and piping, with both automatic and manual activation options. On detection, the agent is discharged to rapidly cool the fire and form a foam layer that prevents re-ignition, followed by a water system that enhances cooling and maintains safety.

SYSTEM DESIGN & OPERATION

- System includes wet chemical agent tank in stainless steel box, with heat sensing cable, nozzles, and piping
- Optional components: temperature sensor and temperature controller
- Supports both automatic and manual activation
- Discharges low pH liquid suppressant over cooking area, plenum, and ducts
- Forms foam layer on hot grease (saponification) to cut off oxygen supply
- Waterline system activates immediately for cooling and foam maintenance
- Prevents re-ignition by continuous cooling of hot surfaces
- Can integrate with gas shut-off valves, alarms, and warning lights for added safety

FEATURES

- Pre-Activation Alarm
- Fast fire detection
- Automatic and manual operation.
- It is the only system capable of giving an alarm approx
- 30 degree before activation temperature of the
- system can be integrated to BMS as well. > Dual suppression action for appliances and energy supply
- (Gas and EC)
- Maximum extinguishing coverage
- Exception design
- Easy kitchen cleanup following discharge
- Stainless steel friendly fire suppressant agent
- Water-based environmental friendly agents

ASPIRATION SMOKE DETECTION SYSTEM

An **Aspiration Smoke Detection System (ASD)** is a highly sensitive fire detection solution designed to provide very early warning of fire conditions. The system continuously draws air samples through a network of sampling pipes and analyzes them in a central detection unit.

Using **advanced laser-based technology**, the system detects extremely small smoke particles at the initial stage of fire, often before visible smoke appears. Unlike conventional detectors, the aspiration system actively samples air, ensuring **faster response, higher reliability**, and improved protection for critical areas.

KEY FEATURES

- Very early fire detection (incipient stage)
- High sensitivity (detects microscopic smoke particles)
- Continuous air monitoring (24×7)
- Multiple alarm levels for early intervention
- Can integrate with fire alarm & suppression systems (BMS/FACP)

APPLICATIONS

- Data centers & server rooms
- Electrical panels & control rooms
- Telecom facilities
- Clean rooms & laboratories
- Warehouses with high ceilings
- Museums and archives

UV/IR FLAME DETECTOR

A **flame detector** is a specialized fire detection device used in fire suppression systems to **detect the presence of flames directly**, rather than relying on smoke or heat. It is designed for **ultra-fast response**, especially in high-risk environments where fires can escalate within seconds.

A flame detector senses **radiation emitted by flames** (UV, IR, or both) and triggers an alarm or suppression system immediately when a flame is detected.

WORKING PRINCIPLE

Flames emit specific wavelengths of electromagnetic radiation. The detector identifies this radiation pattern and distinguishes it from background noise.

Detection Process:

- **Radiation Sensing -** The detector continuously monitors for UV and/or IR radiation.
- **Signal Processing -** Advanced algorithms analyze flicker frequency and intensity to confirm a real flame.
- **Fire Confirmation -** The system differentiates between actual fire and false sources (sunlight, welding, etc.).
- **Alarm Activation -** Once confirmed, it sends a signal to:
  a. Fire alarm panel (FACP)
  b. Suppression system (CO_2, clean agent, foam, etc.

FIRE DETECTION CAMERA

The Fire Detection Camera is an intelligent vision-based fire detection system that integrates thermal imaging technology with high-definition optical video analytics to provide early and reliable fire detection. The system continuously monitors the protected area, detecting abnormal temperature rise, flame signatures, and smoke patterns in real time.

SYSTEM ARCHITECTURE

The camera consists of a dual-sensor module:

- Thermal Sensor for heat detection and temperature measurement
- Optical Sensor (HD Camera) for visual monitoring and video analytics

Both sensors work simultaneously and are processed by an embedded AI-based analytics engine to ensure accurate fire detection and false alarm filtering.

TRANSFORMER FIRE PROTECTION SYSTEMS

SYSTEM OBJECTIVE

- Rapid fire detection and automatic activation
- Effective flame suppression and cooling
- Prevention of transformer explosion and oil fire spread
- Protection of adjacent transformers and structures
- Minimization of downtime and asset loss

A Transformer Fire Protection System is a specialized fire suppression solution designed to detect, control, and extinguish fires in oil-filled transformers. These fires typically result from insulation failure, internal faults, or external ignition sources, leading to rapid combustion of transformer oil and potential explosion hazards. The system integrates automatic detection, rapid-response suppression, and safety interlocks to minimize damage, ensure operational continuity, and protect adjacent equipment.

Transformer fire protection systems are mainly of three types:

- High Velocity Water Spray (HVWS)
- Medium Velocity Water Spray (MVWS)
- Nitrogen Injection Fire Protection System (NIFPS)

HVWS provides high-pressure water spray for rapid fire suppression, MVWS is used for cooling and controlling fire spread, while NIFPS protects against internal faults by injecting nitrogen to prevent explosion.

HIGH VELOCITY WATER SPRAY (HVWS)

A High Velocity Water Spray System is a deluge-based fire protection system that uses high-pressure water discharge through specially designed nozzles to penetrate flames and rapidly cool transformer surfaces.

The system consists of a deluge valve, fire detection network (heat/flame detectors), piping system, and high-velocity spray nozzles. Upon fire detection, the deluge valve opens instantly, allowing water to flow through all nozzles simultaneously, covering the transformer and surrounding hazard area.

APLLICATIONS

- Large power transformers
- Outdoor substations
- High-risk installations with large oil volumes
- Areas requiring exposure protection

MEDIUM VELOCITY WATER SPRAY (MVWS)

A Medium Velocity Water Spray System is designed to control fire and provide cooling using moderate pressure water discharge with controlled droplet size.

This system operates similarly to HVWS but uses medium velocity nozzles that produce a balanced spray pattern. It focuses on cooling the transformer surface and preventing fire escalation rather than aggressive flame penetration.

KEY FEATURES

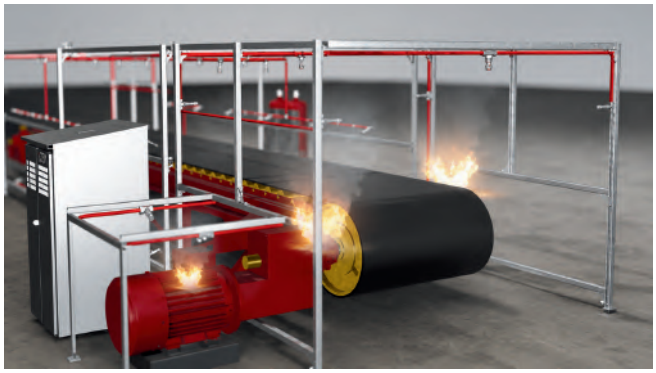
- Moderate discharge pressure
- Efficient surface cooling
- Lower water consumption compared to HVWS
- Suitable for controlled fire suppression

APLLICATIONS

- Medium and small transformers
- Indoor transformer rooms
- Installations where cooling is the primary requirement
- Areas with limited water supply

CONVEYOR BELT

A Conveyor Belt Fire Suppression System is designed to detect and control fires on conveyor systems quickly and efficiently. It provides automatic fire detection and suppression to protect conveyor belts, motors, rollers, and surrounding equipment from fire hazards caused by overheating, friction, electrical faults, or material ignition. These systems help minimize downtime, prevent equipment damage, and improve safety in industrial environments such as manufacturing plants, warehouses, mining, and material handling facilities.



APLLICATIONS

- Mining industries
- Cement plants
- Coal handling plants
- Warehouses
- Power plants
- Manufacturing facilities
- Airports & logistics centers
- Food processing industries

ADVANTAGES

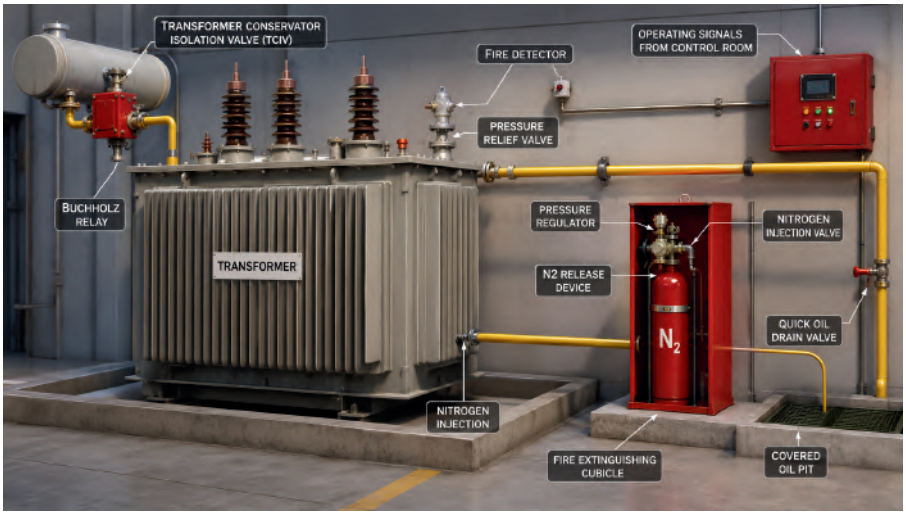
- Rapid fire detection & suppression
- Reduced equipment damage
- Minimized production downtime
- Increased worker safety
- Automatic operation
- Protection of critical assets
- Compliance with industrial fire safety standards

NITROGEN INJECTION FIRE PROTECTION SYSTEM (NIFPS)

NIFPS is an advanced fire protection system that suppresses internal transformer fires by injecting nitrogen gas into the transformer tank to inert the flammable atmosphere.

The system is connected to the transformer through piping and control valves. Upon detection of internal faults (via Buchholz relay or protection systems), nitrogen gas is injected into the transformer tank. This reduces oxygen concentration, suppresses internal arcing, and prevents explosion. Some systems also include automatic oil drainage to further reduce fire risk.

WORKING PRINCIPLE



The Nitrogen Injection Fire Protection System (NIFPS) protects oil-filled transformers from fire and explosion by automatically detecting faults, overheating, or fire through devices like the Buchholz relay, fire detector, and pressure relief valve.

During a fault, the TCIV isolates the conservator, nitrogen gas is injected into the transformer to suppress fire by reducing oxygen, and hot oil is drained into a covered oil pit to reduce fire risk.

The system operates automatically through a control panel and provides fast, reliable, and eco-friendly fire protection for transformers in substations and industrial power systems.

KEY FEATURES

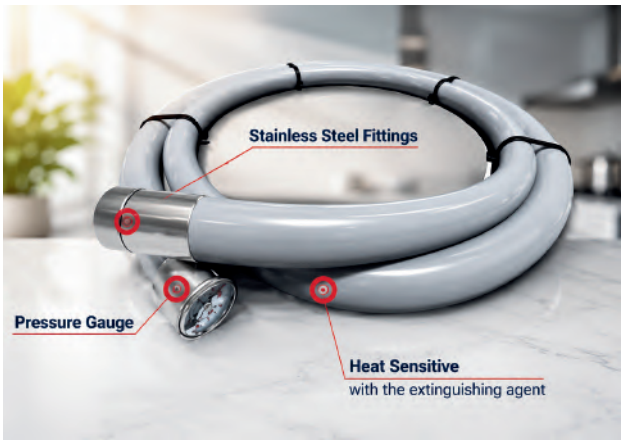
- Automatic nitrogen injection
- Fast response time
- Reliable transformer protection
- Continuous system monitoring
- Low maintenance requirement
- Integration with fire alarm systems
- Designed for high-value assets

ADVANTAGES

- Rapid fire suppression
- Prevents transformer explosions
- Minimizes equipment damage
- Reduces downtime
- Fully automatic operation
- Environment-friendly system
- Improves personnel safety
- Suitable for critical electrical infrastructure

Applications : NIFPS is used for protecting power transformers, generator transformers, reactor systems, substations, power plants, and industrial electrical installations from fire hazards.

CYLINDER LESS AUTOMATIC FIRE SUPPRESSION SYSTEM



The system uses a heat-sensitive tube manufactured from a specialized plastic material, sealed at both ends with stainless steel fittings. This tube serves a dual purpose by functioning as both the storage container and the detection mechanism.

Since the extinguishing agent is stored directly inside the tube, there is no requirement for an external storage cylinder or additional container. The tube is designed to burst automatically when exposed to high temperatures—typically between 90°C and 100°C for electrical panels, and up to a maximum of 120°C for vehicle applications.

Type of system	Extinguishing Agent	Amount of extinguishing agent (kg)	Length of the system (cm)	Outside diameter of t the tube (mm)	Max. volume of the protected enclosure (m^3)	Operation Temperature (°C)
AE100FA	HFC-227ea/FK-5-1-12	0.25	110	18	0.22 - 0.35	-40°C to 90°C
AE200FA	HFC-227ea/FK-5-1-12	0.50	212		0.43 - 0.70	-40°C to 90°C
AE300FA	HFC-227ea/FK-5-1-12	0.75	316		0.65 -1.04	-40°C to 90°C
AE400FA	HFC-227ea/FK-5-1-12	1.00	419		0.86 -1.40	-40°C to 90°C
AE500FA	HFC-227ea/FK-5-1-12	1.25	500		1.08 –1.74	-40°C to 90°C

FEATURES

- Suitable for universal fire protection, capable of suppressing Class A, B, C, and electrical fires
- Highly flexible heat-sensitive tube for easy installation in confined spaces
- Cost-effective system with zero maintenance requirements and long operational life
- No external storage cylinder required, as the extinguishing agent is stored directly inside the tube
- Operates independently 24/7 without the need for electrical power supply
- Uses clean and efficient extinguishing agents such as HFC-227ea and FK-5-1-12, widely accepted worldwide
- Safe for both equipment enclosures and personnel during discharge
- Pressure gauge provided for continuous pressure monitoring
- Designed to operate in extreme conditions, with working temperatures down to -40°C and activation temperatures up to 120°C for vehicle engine fire protection

The system uses HFC-227ea and FK-5-1-12 clean extinguishing agents, known for providing fast, reliable, and residue-free fire suppression. These agents are highly effective, safe for people and electronic equipment, and cause zero ozone depletion. Designed for sensitive and critical areas, the system protects valuable equipment without leaving harmful residue or causing damage to electronic components.

AUTOMATIC FIRE CURTAIN

Purpose:

Fire Curtains are designed to act as a temporary fire and smoke barrier during emergencies. In the event of a fire, the curtain automatically deploys to isolate the affected area, helping prevent the spread of flames and smoke to surrounding spaces. They also help maintain safe and protected escape routes for occupants without compromising fire resistance.

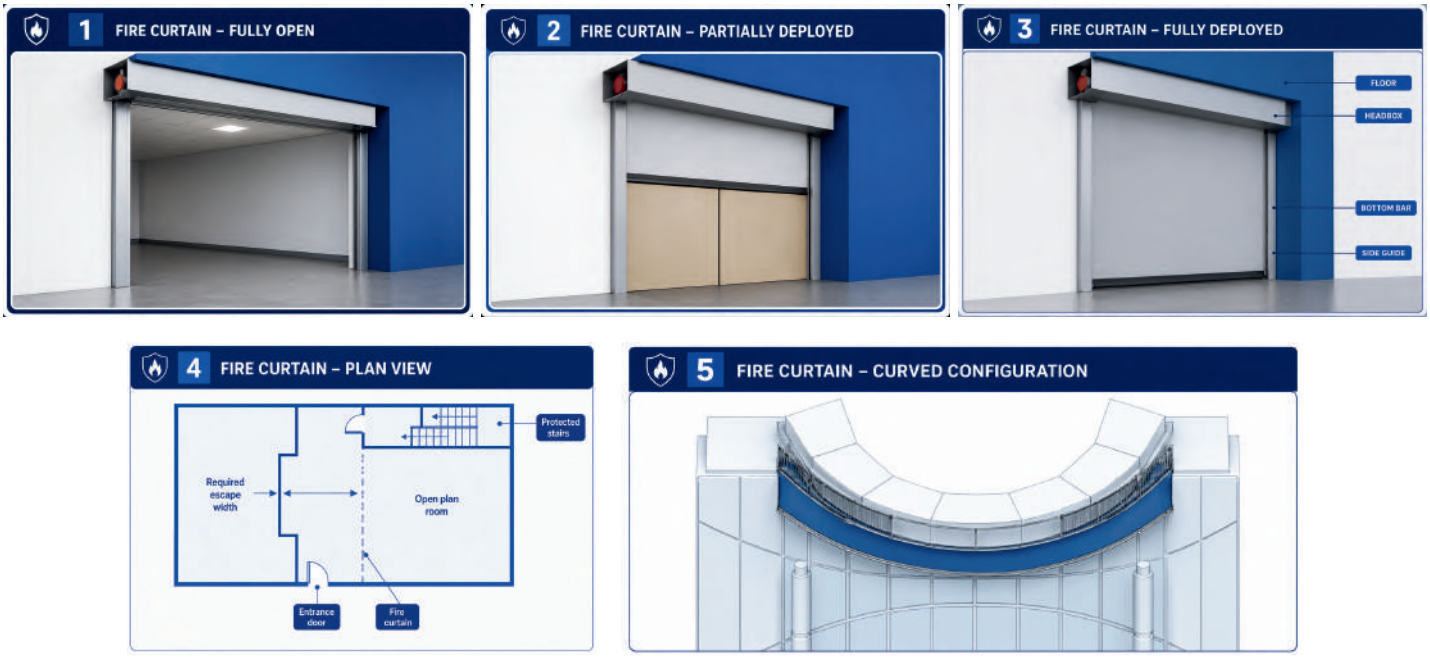
Applications:

Fire Curtains are suitable for a wide range of buildings, including residential, commercial, retail, hospitality, and industrial facilities.

Features:

Fire Curtains are compact, lightweight, and easy to install, making them ideal for locations with limited space such as false ceilings. They are tested and certified in accordance with EN 1634-1 standards, ensuring reliable fire protection for specified time durations and temperature conditions.

There are five typical applications that a fire curtain is used for:



1. Fire Curtains are commonly used as an alternative to fire doors or shutters, remaining open during normal operation and automatically closing during emergencies.
2. They are widely installed in front of lift doors to provide fire protection where lift doors are not fire-rated.
3. Fire Curtains can also be used to seal large smoke shafts or voids where standard dampers or ventilators are not suitable.
4. In open-plan buildings, Fire Curtains help create protected escape routes by preventing fire and smoke spread during evacuation.
5. They are also ideal for counters, service shafts, serveries, and atrium balconies due to their compact, neat, and cost-effective design.

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