

# COMPLETE RANGE OF FIRE EXTINGUISHERS AND FIRE FIGHTING EQUIPMENT



## DNS ELECTRICAL ENGINEERING

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You Never Know When You Gonna  
Need It, **BE READY,  
BE SAFE!**

## DNS ELECTRICAL ENGINEERING





## About us

DNS FIRE & SAFETY MANAGEMENT is one of the leading supplier & Manufacturer of fire fighting equipments in PAN INDIA basis with the brand name of .DNS FIRE & SAFETY MANAGEMENT is one of the progressive firm in the field of fire fighting equipment . Company Manufacturers all types of fire detection and suppression system for electrical panel, server rooms, transformers, hotels, offices, malls, kitchen suppression system, foam, powder and co2 based suppression system. automatic vehicle fire detection and suppression system. The Firm have professional staff for providing the best solution to our clients . The firm' s prime objective is to provide the quality products & services by maintaining high standard of quality assurance and personal relationship with clients. We are reliable manufacturer of fire fighting equipments based in Delhi , all our process from raw material to finish product done by well experience Trained professional . We never compromised in our product's quality. Company Works with dealer network to provide easy service and product on pan india basis .

We also Provide our specialized team for installation of all fire fighting systems in PAN INDIA

## Vision

The population of the world is rapidly growing and our common life spaces are growing too. It is getting more important to prevent these common spaces from one of the biggest disaster, Fire. We are working with specialized Engineers and qualified staff in our technical and commercial applications to reduce the fire risk to minimum . Our main aim is to give better service and manufacture high quality products with our continuous evolving Research & Development. We want to improve the understanding of Fire Security to the level of developed countries, In this way , we want to develop our country by using the high quality manufactured goods.

## Mission

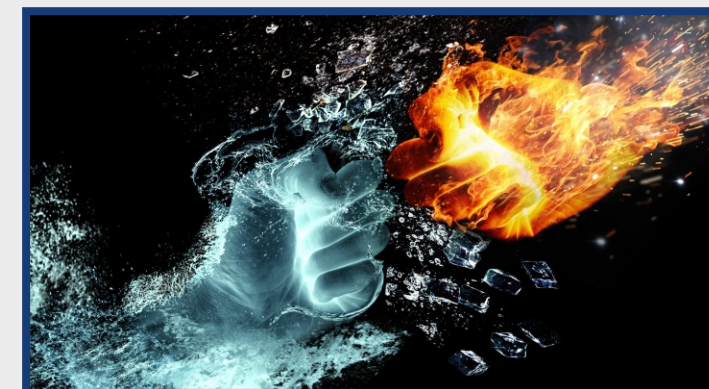
To provide unique and premium quality products to our customers. We are committed to our services which fully meet our customer's needs for quality assurance together with ISO requirements and we constantly seek ways to improve our quality continuously and ensure its continuity For better awareness of fire fighting equipments.



GEM approved OEM for Fire Extinguishers, Wheel based Fire extinguisher , fire powder & other fire fighting equipments .



## Deals In :



### Electrical Panel Automatic Fire Suppression System.

(Used Chemical Novec 1230, FK-5-1-12, and HFC 227ea & Co2 system For A, C, D ClassType Fire). The Protection Application (LT Panel, HT Panel, Transformers Oil & Dry Type) System Approved by: CE, PESO, UL & FM Certified Etc.

### Kitchen Automatic Fire Suppression system.

(Used Chemical Potassium acetate For K & F Class type Fire) The Application Protection (Hotel Kitchen areas, Food Court, all Type of Restaurant Kitchen) System Approved by: CE, PESO, UL & LPCB FM Certified Etc.

### Room Flooding Automatic Fire Suppression & Detection System.

(Used Chemical Novec 1230, FK-5-1-12, HFC 227ea & Co2 system Foam Based system For A,B, C, D Class TYPE Fire) The Application Protection (Office areas, Server Room, Food Court, all Type of Restaurant, Hotel, Mall I.T Sectors ) System Approved by: CE, PESO, VDS, UL & FM Certified Etc.

### Fire Alarm & Detection System.

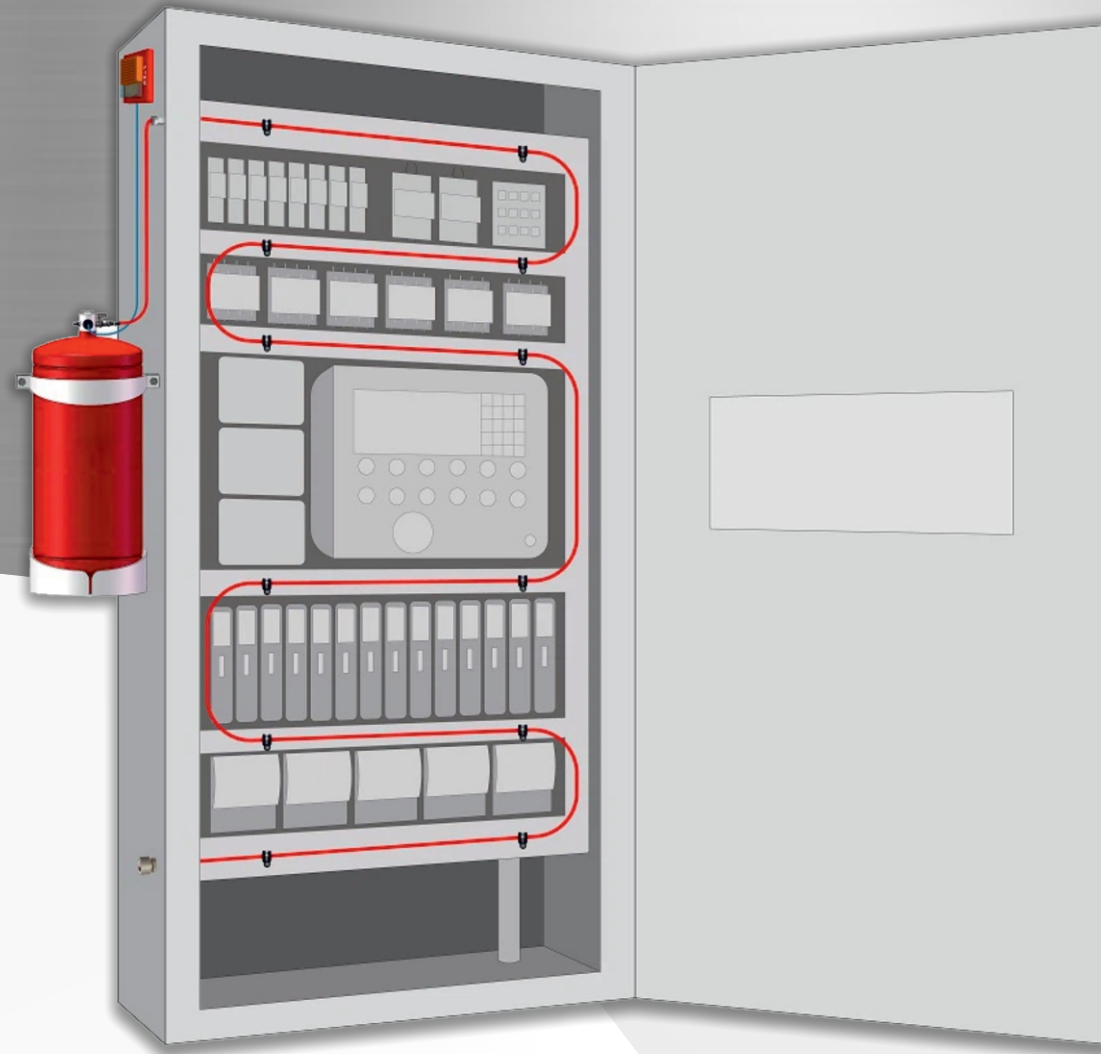
(Used for detection of fire to through only Fire Detection, Heat detector , smoke detector, beam detector and gas detector The Application Protection (Office areas, Server Room, Food Court, all Type of Restaurant, Hotel, Mall I.T Sectors )

### Vehicle Fire Detection & Suppression System.

(Used Chemical Co2 system, Foam Based & DCP Powder system For A, B, C, D Class TYPE Fire) The Application Protection (Bus , Car , JCB & Cat Mines Vehicle With all Type of loading Vehicle)



## Electrical Panel Fire Suppression System



### FEATURES :

Fire in Electrical Panel,Transformer is a serious hazard to life and property. Occurrence of fire besides leading to personnel injuries and property damage also leads to loss of productivity and precious time. The primary cause of fire may be due to short circuit /overheating of certain components in the panel board. Since most of the Panel areas are unmanned and completely closed, fire inside the panel is not visible and accessible from out side till it becomes too big, dangerous and unmanageable. The Fire Protection System envisaged for electrical panel's call for early detection of fire and quenching the same by flooding the electrical panel with Clean agent / CO2 besides giving out an audio-visual alarm.

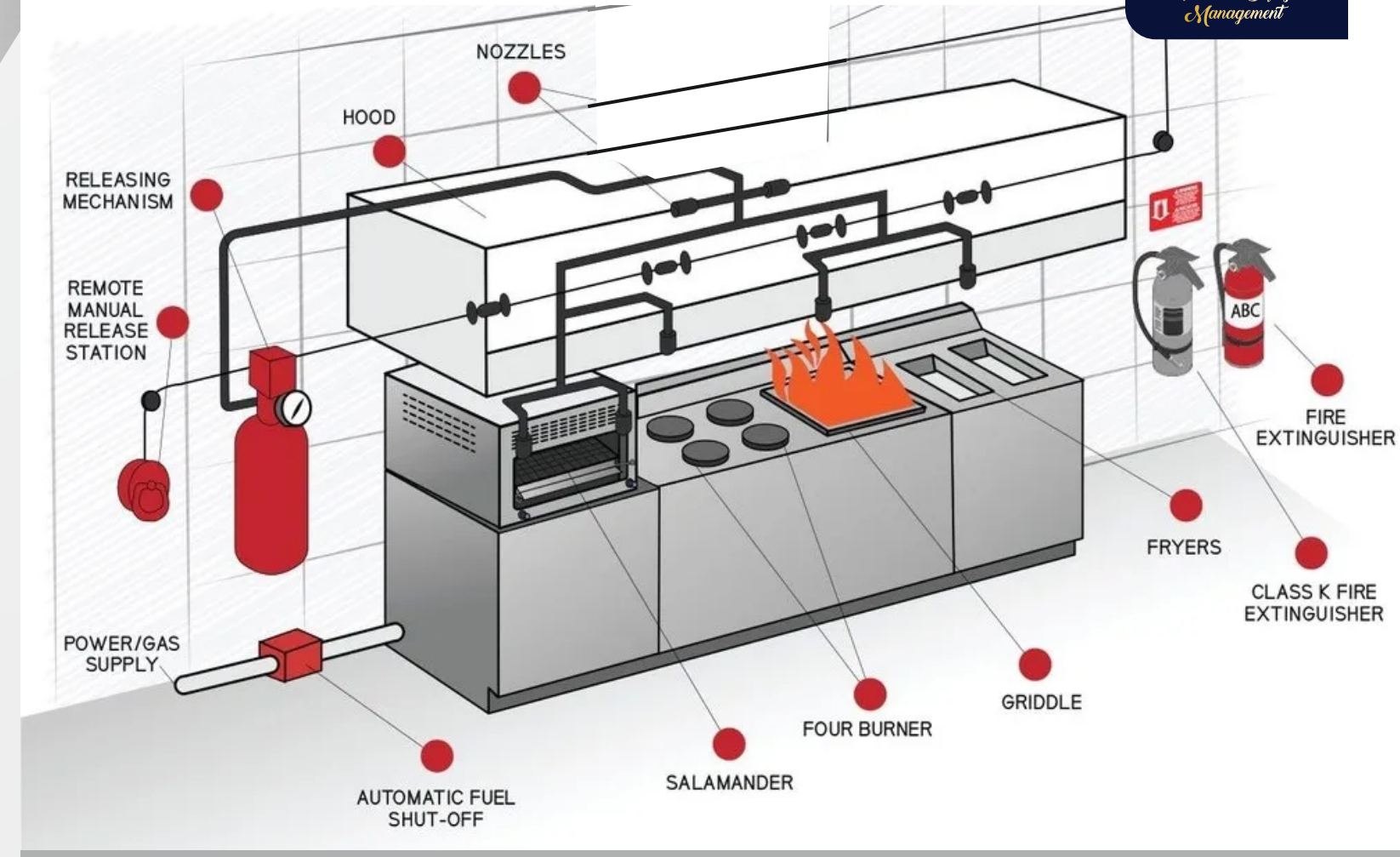
### SPECIFICATION:

- Automatic fire cylinders fitted with direct low pressure IHP & DHP valve, push in connectors, End of line adopter and low pressure switch for activation of master control unit and specially design brackets.
- Clean agent gas UL approved clean agent gas **FK-5-1-12 & HFC227ea** as required in project
- Fire / Heat Sensing hose AR suppression / Fire Finder heat sensing tube also called Linear Pneumatic heat sensing tube CE/UL approved.
- Master Control Unit Providing Master control Unit with LED Flasher, Electronic Hooter, LED Indicator, Silent Switch. Have Provision for Integration with Fire Alarm **Control Panel/SCADA/BMS** to make each entire system functional.

**SYSTEM APPROVED BY: CE, PESO, UL & FM CERTIFIED ETC.**



## Kitchen Automatic Hood Fire Suppression System



### KITCHEN FIRE PROTECTION

Risk of fire hazard proves to be very dangerous in the modern commercial kitchen. Fire in kitchen is generally due to burning of oil. However oil & fats burn at relatively high temperature and hence once they catch fire, extinguishing them is very difficult. Open flames, red hot cooking surfaces and a heavily grease- laden environment help the kitchen fire to spread quickly and have proven to be very difficult to extinguish. With the aim to protect modern kitchens from such risks we have developed **KITCHEN FIRE SUPPRESSION SYSTEM**. The system is developed according to the NFPA & UL Standards. It can be widely used in the Kitchens of the Hotels, Institutes, Restaurants and Hospitals etc.

Cylinder With Valve And Pressure Gouge With Master Control Pannel & Automatic Mechanical/penumatic System & Manual Actication Pull Station With Gas Shut-off Valve





### **K CLASS CYLINDER** Stainless Steel Body

➤ Available in following Sizes  
9.5Ltr., 16Ltr., 20Ltr.,

**SYSTEM APPROVED BY: CE, PESO, UL & LPCB FM CERTIFIED ETC.**



### FEATURES

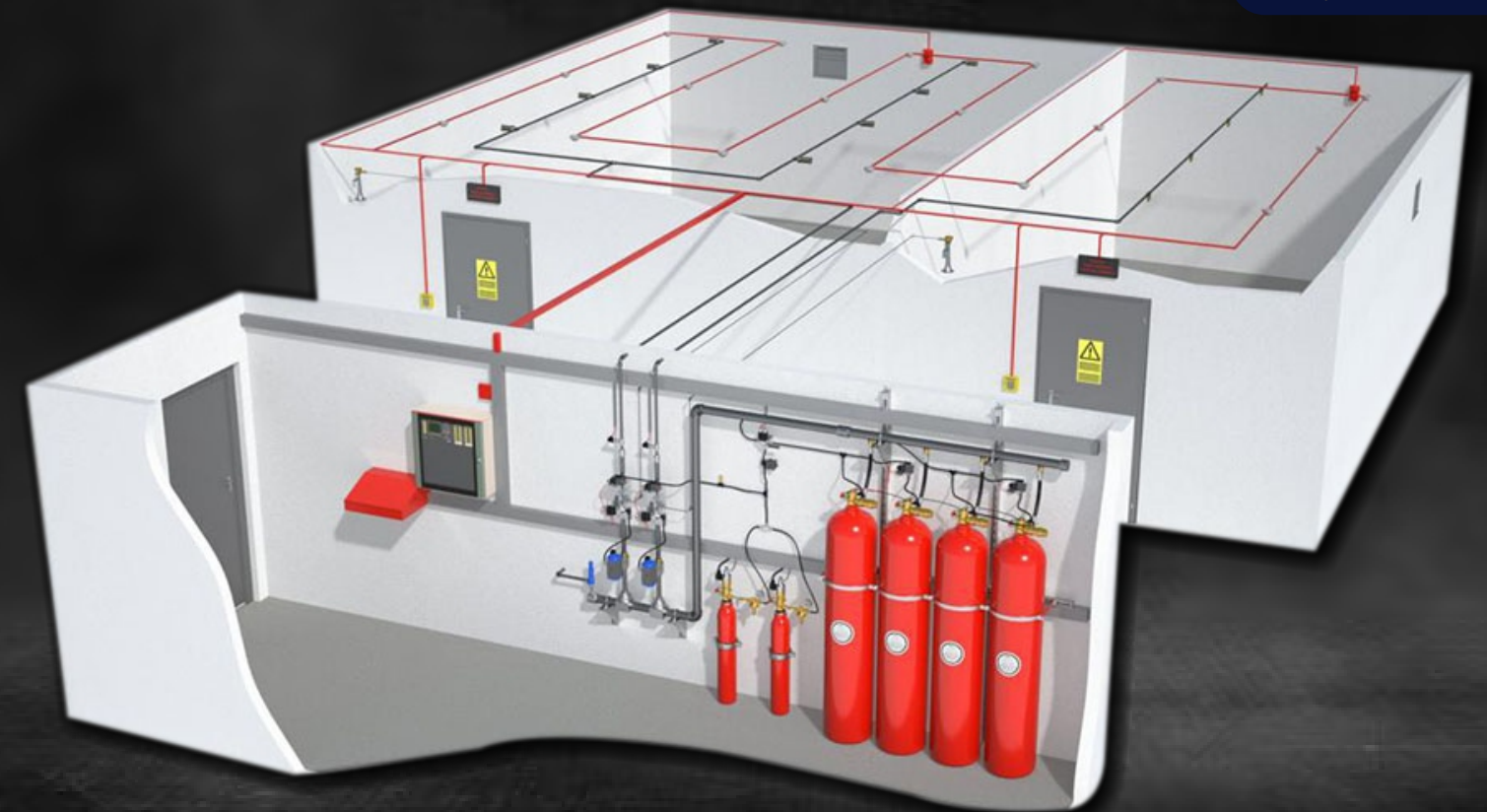
-  **24 Hour Protection** - An automatic detection and actuation controls ensure protection is always on
-  **Minimal Downtime** - Very easy to wipe of chemical, clean he equipment and restart your kitchen.
-  **Manual Activation** - The Manual release allows an activation of the system at the first sign of fire, even before it is automatically released.
-  **Non Toxic** - It does not release toxic vapours during discharge. It is ideal for the protection of normally accupied premises.



## Clean Agent Automatic Room Flooding System



## Co2 Automatic Room Flooding System



The causes of fire are many and therefore the classification of fires (A/B/C/D/K) is important. That's why fire protection specialists must select the appropriate fire-extinguishing system for suppressing a fire, particularly in complex commercial and institutional setups where the use of water is inappropriate, or even dangerous. Latest range of Gas-based Fire Suppression Systems – also known as Clean Agent Fire Suppression Systems – chemical agents to extinguish fires immediately. Each system typically consists of the agent along with agent storage containers, release valves, delivery piping and dispersion nozzles. Backed by legendary reputation in the area of fire safety equipment, these Fire Suppression Systems guarantee top-of-the-line quality and adherence to Indian fire safety regulations when it matters most.

### FEATURES :

All Clean Agent Cylinder is master valve cylinder & slave valve cylinder & flexible discharge hose & Flexible inter connecting hose & Non Return Valve & Stand by cylinder & Directional Valve & Pressure Loss Indicator & Cylinder Mounting Frame & Discharge Nozzle 360°/180°



### ENVIRONMENT FRIENDLY

Most materials such as steel, aluminium, stainless steel, brass, as well as plastics, rubber and electronic components are not affected by exposure to **FK-5-1-12 & HPC-227ea (SYNERGY 1230)**. This agent is also environmentally friendly, having an ozone depletion potential (ODP) of 0.00.



### Minimum Downtime

**FK-5-1-12 (SYNERGY 1230)** leaves no residue thereby minimizing after fire clean up, along with keeping expensive downtime to a minimum.

**Note: System based on novoc1230/FK5-1-12 & HFC227ea**

### DESCRIPTION

Co2 Cylinder / Master Valve / Slave Valve / Flexible Discharge Hose / Flexible Inter Connecting Hose / Non Return Valve / Directional Valve / Bleeder Valve / Pressure Switch / Solenoid Valve / Digital Weight Loss Indicator / Cylinder Mounting Frame / Manifold / Pressure Operated Siren / 180°/360° Discharge Nozzle / Weight Loss Indicator /

### DIGITAL WEIGHT LOSS INDICATOR

- Displays Actual Weight of Cylinder.
- Displays WEIGHT LOSS and Audio Visual Alarm Sound on Loss of Weight more than 10% (or required by relevant standards) of gas contents.
- Electronics and environment-friendly
- Superior Extinguishing agent: HFC227ea
- 24 hour protection

### MECHANICAL WEIGHT LOSS INDICATOR

- Green light remains on indicating full weight
- On weight loss of more than 10% (or as required relevant standards) of gas contents the balancing weight shall drop down triggering Auto Visual Alarm.
- The Red light turns on indicating loss of weight

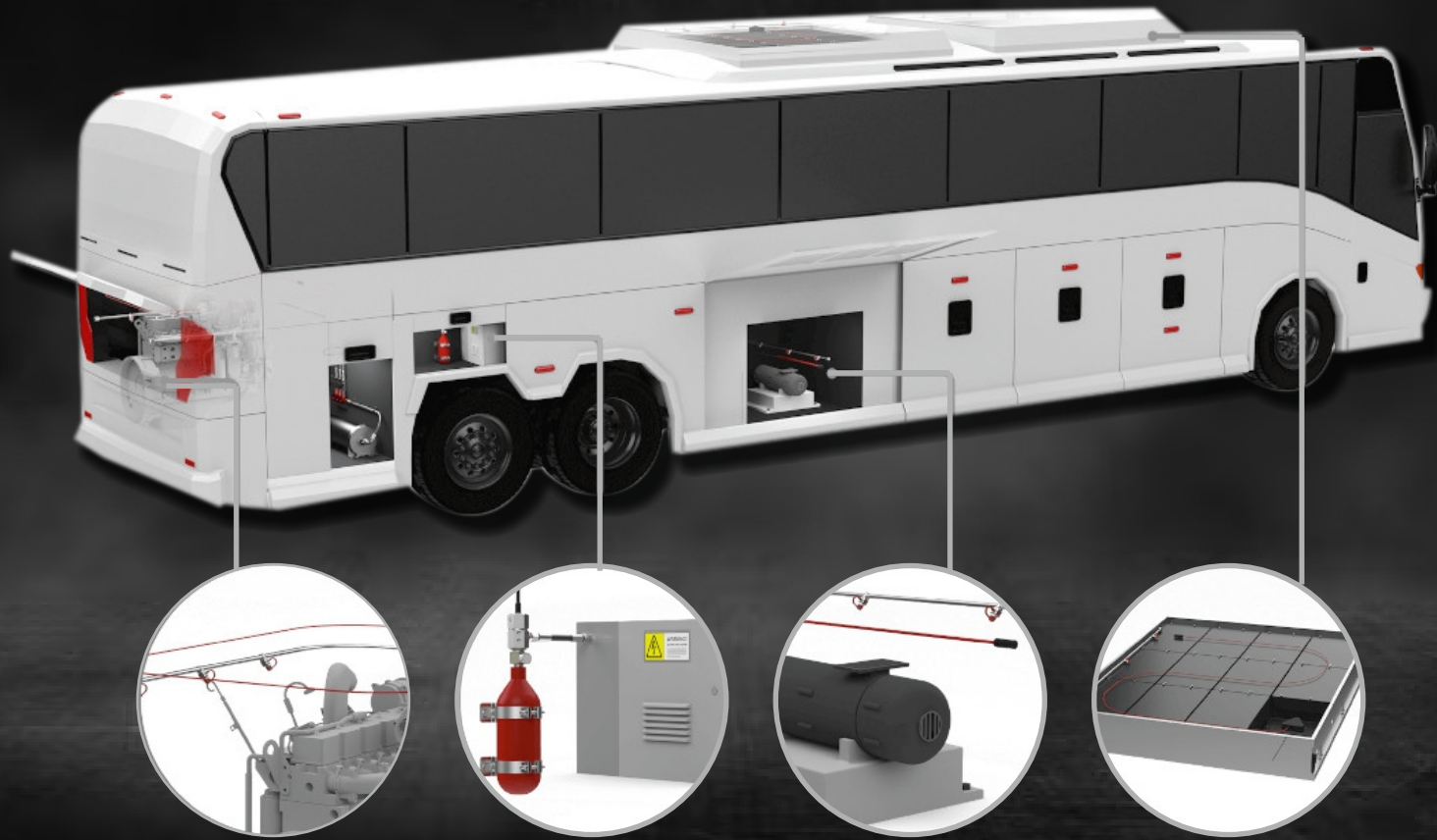
### HIGH PRESSURE CARBON DIOXIDE SYSTEM

High pressure CO2 system is a specialized fire extinguishing system designed to maintain the carbon dioxide supply at 21° C and 850 psig in strength alloy steel cylinders. The cylinders contain the CO2 required to protect the largest single hazard. On large hazards where several cylinders are required, a manifold is used to connect each cylinder by means of flexible hoses and check valves. Cylinder valves control the CO2 flow to the hazard through properly sized pipe, terminating in nozzles that apply the CO2. Flow rate is controlled by nozzle orifices as well as pipe sizes. The cylinder master valves are electronically operated and the slave valves are pressure actuated. The master valves can be automatically and/or manually operated.

**Note: System Based On Ce & UI & Peso Approved**



## Vehicle Fire Protection and Detection System



### Description

Forrex extinguishing agent -re-ignition protection / Fewer components – shorter installation time / Low maintenance frequency / Low total cost of ownership (TCO) Low environmental footprint / High volume product / Non-pressurized agent tank / Forrex extinguishing agent-re-ignition protection / Low maintenance frequency Low total cost of ownership (TCO)

### MANUFACTURING

• The electrical sub-systems of FDSS are always individually tested, programmed and configured by using equipment connected to DafoCLOUD which enables full control and visibility about detailed test reports but also firmware files, settings and configurations used over the time.

### INSTALLATION

• The FDSS-specific installation documentation is accessible for technicians via DafoCLOUD.

### MAINTENANCE

- Both planned and unplanned maintenance activities, including associated time-stamped reports, photos/videos and reminders for next actions will be stored and handled by DafoCLOUD.
- Historical event logs of Control Units can be accessed from DafoCLOUD for in-depth analysis

### FEATURES

The different protection zones are then protected in various ways by robust detection and suppression systems – both liquid based and gas-based solutions. Li-ion batteries are still a relatively new technology and Li-ion battery safety is a recent research area. Regulations and standards are to some extent lagging behind. Dafo Vehicle Fire Protection is in the forefront of the development as by participating in several research projects on how to deal with fire hazards of Li-ion batteries in vehicles in order to provide solutions for to reducing the risks and consequences of a thermal incident in or in connection with batteries in heavy commercial HEVs and EVs such as buses and trucks.



## Coventional Fire Alarm & Detection System & Gas Detector & Gas Detection Panel



### FIRE ALARM PANEL / GAS RELEASE / LEAKAGE PANEL

- Operating Voltage Range : AC 220v 50Hz + 10% DC 24v 1.5 Amp.
  - Operating Temperature : -0° to 50° C
  - Construction : 1.8mm CRCA Sheet Duly Power Coated
- Avl. in 2-4-6-8-& many more zones  
Also Avl. in **PA PANELS**



### SMOKE DETECTOR

- Operating Voltage Range : 9 to 32 VDC Volts Non-Polarized
- Operating Temperature Range : 14°F to 120°F (-10°C to 49°C)
- Diameter : 4.0 (130mm)
- Alarm Indicator : Dual Red LEDs



### MULTI DETECTOR

- Operating Voltage Range : 9 to 32 VDC Volts Non-Polarized
- Operating Temperature Range : 14°F to 120°F (-10°C to 49°C)
- Diameter : 4.0 (130mm)
- Thermistor Temperature : 68°C



### ABS HOOTER

Power I/P : 100V AC (With LMT) or 12/24V DC  
Dimension(mm) : L 115mm \*D 75mm\* W 130mm  
Speaker : 4 Watt  
Construction : ABS Housing



### ABS HOOTER & WITH FLASTER

Power I/P : 100V AC (With LMT) or 12/24V DC  
Dimension(mm) : L 115mm \*D 75mm\* W 130mm  
Speaker : 4 Watt  
Construction : ABS Housing



### M.S HOOTER

Power I/P : 100V AC (With LMT) or 12/24V DC  
Dimension(mm) : L 185mm \*D 60mm\* W 130mm  
Speaker : 4 Watt  
Construction : MS Housing



### MS MCP

Power I/P : 24V DC  
Dimension(mm) : 85\*85\*50  
Housing : MS  
Current Consumption : 30 mA

**SYSTEM APPROVED BY: CE & UL CERTIFIED ETC.**



## Addressable Fire Alarm & Detection System



Primary power

Backup power

A commercial fire alarm system is an essential part of total life safety for commercial and industrial properties. Commercial building fire alarm systems can be quite complex such as high-rise buildings with multiple levels or sprawling campuses with many buildings and facilities that must be connected for mass notification. Commercial fire alarm system providers must keep up with the latest advancements in life safety technology and ensure that all fire alarm system components are working together.

### FEATURES

1. Fire alarm control panel
2. Initiating devices
3. Notification devices
4. Primary power supply
5. Backup power supply
6. Remote Control System

**SYSTEM APPROVED BY: UL LISTED ETC.**



