

NITIN FIRE PROTECTION INDUSTRIES LIMITED

Protecting
Since 1984

Product Portfolio



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ABOUT US

NITIN FIRE PROTECTION INDUSTRIES LIMITED (NFPIIL) is a leading Fire Protection Engineering Company into Design, Supply, Installation, Engineering and Maintenance of Fire Protection Systems. NFPIIL has been in operation for more than 33 years in the field of fire protection and continues to retain its leading position in delivering the technology available for Fire Protection Systems to customers & works as System Integrators.

We have wide range of products approved by UL / LPCB / VDS/ CE / BIS. Our filling facilities are approved by Peso & LPCB.

NFPIIL over the period of years have executed large scale projects for fire protection of Offshore Platforms, Refineries, Gas Pipeline Stations, Data Centres, Server Rooms, Telecommunication Sites, Airports, Industrial Complexes, Commercial Spaces, Hospitals etc.

With wide range of diversified portfolio of products approved by various National & International agencies NFPIIL is working towards making the World Fire Free. With current export to over forty countries. We look forward to become a dominant player in the field of Fire Protection Globally with innovation as our motto we continue to deliver latest technology solutions in the field.

We undertake supply of equipments / Complete Turnkey Projects / Annual Maintenance Contracts and refilling of gaseous fire protection systems. We are OEM partners with International fire companies and offer their products range in India.



Clean Agent Fire Suppression using Chemical Gases

Gaseous Fire Suppression Systems for total flooding Application

Engineered & Pre Engineered Option Available



Nitin 227 Systems - 25 Bar (360 Psi) & 42 Bar (600 Psi)

- Nitin 227 provides highly effective, environmentally friendly fire suppression systems using recognised HFC 227ea suppression agent.
- Nitin 227 systems are developed to give you high quality, reliable performance and cost efficient fire for your needs.
- Nitin 227 system is approved by LPCB using Welded & Seamless Steel Cylinders.
- Cylinders Size from 30 Liter to 360 Liters capacity.
- Designed as per NFPA 2001 latest standard / ISO.
- Large user base in India and Globally.



Nitin 1230 Systems using FK5112 25 Bar & 42 Bar



- FK5112 Fire Protection Fluid is a next generation halon alternative designed to balance industry concerns For performance, human safety and the environment.
- FK5112 system Fire Suppression Systems are designed to be used with FK5112 "Next-generation" Fire Protection Fluid.
- Nitin 1230 is approved by LPCB for use with Welded & Seamless Steel Cylinders.
- Cylinders Size from 30 Liter to 360 Liters.
- It is Designed as per NFPA 2001 latest standard / ISO.



Clean Agent System UL Listed

HFC227e Clean Agent System

Clean agent chemical gaseous fire protection systems reach extinguishing levels in 10 seconds.

Chemical systems work by breaking down the combustion process via heat absorption and chemical interaction, stopping ordinary combustible, electrical and flammable liquid fires before they cause significant damage.

In addition, they are non-conductive, non-corrosive, safe for equipment, and most importantly, safe for people. All systems are designed and configured to meet both customer specifications and design, installation and maintenance standards.

manufacture in an AS9100C/ISO 9001:2008 - certified facility this 25 bar system is available in fill volumes ranging from 4 - 590 kg in each Container and can be activated with manually Or automatically using mechanical, pneumatic or electrical activation.

FSL CG4 Engineered System with FK5112

Clean agent chemical gaseous fire protection systems reach extinguishing levels in seconds. Novec 1230 fluid is stored as a liquid and discharged as a gas. It distributes uniformly throughout the hazard zone, and suppresses fire primarily by heat absorption from the flame.

The FSL CG4 UL listed system is engineered to optimize the unique flow characteristics of FK5112. Due to lower volatility, Novec can be safely charged to 35bar (500 psi). The increased pressure, combined with the liquid flow characteristics of Novec in the discharge piping, has enabled significant improvements in design flexibility over traditional 25 bar (360 psi) systems:

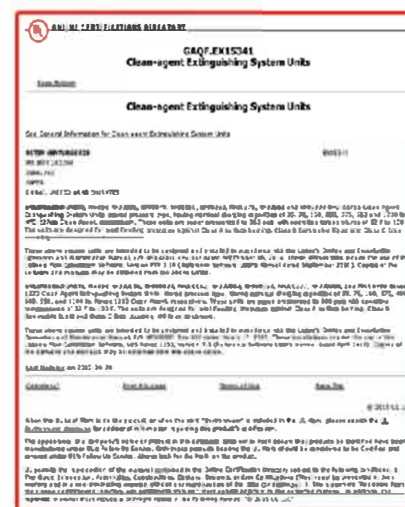
Greater pipe volume to liquid agent volume, enabling larger than average distribution networks.

Increased distance from the cylinder to the nozzle.

Increased vertical differential from the cylinder to the nozzle.

Cylinder sizes range from 15 litre through to 490 litre.

4 sizes of cylinder valve, includes the market leading 4" (100mm).



Inert Gaseous Fire Suppression System - 200/300 Bar For Occupied & Un Occupied Area



INERTECH 01(IG-01) Fire Suppression Systems

IG - 01 (Argon) extinguishing systems protected the hazard is based on discharging Argon into the room there by reducing the concentration of oxygen for any ignition.

INERTECH 55 (IG-55) Fire Suppression Systems

IG - 55 is an inert gas blend consisting of a 50 : 50 mixture Of gases Argon gas & Nitrogen gas IG - 55 discharge results in a gas mixture with a density similar to that of air and reduce the oxygen concentration there of and extinguishing the fire.

INERTECH 100 (IG - 100) Fire Suppression Systems

IG - 100 (Nitrogen) is a gas which has the capacity to be able to treat a fire hazard in open spaces. IG - 100 is stored in Cylinders in the form of compressed gas & reduces oxygen & extinguishing fire.

INERTECH 541 (IG - 541) Fire Suppression Systems

IG - 541 is a colorless, electrically non - conductive gas with a density approx. same as that of air. It is an inert gas mixture consisting of Nitrogen, Argon & Carbon Dioxide. IG - 541 extinguishes fires mainly by a reduction of oxygen concentration in the atmosphere of the hazard enclosure.



Benifits of Inert Gases

Inert gases make up our atmosphere. Inert Gas Fire Suppression Systems are simply air without oxygen. They are environmentally neutral, zero ODP (Ozone Depletion Potential) and zero GWP (Global Warming Potential).

Inertech Systems offers inert gaseous suppression systems (Inertech IG541, IG55, IG100 and IG01).

Inertech offers fast acting fire extinguishing solutions, which are environmentally neutral and safe for occupied areas, leaving no residue. Tested and approved by regulatory bodies.

Inertech Systems are effective against fire involving almost all combustible materials and flammable liquids.

Environmentally Neutral - Zero Ozone Depleting Potential and Zero Global Warming Potential.

Fast acting and effective against nearly all fire hazards.

No post - fire residues or damage to protected equipment.

Electrically non - conductive, non - corrosive and safe for equipment.

Safe for use in occupied areas.

Minimum downtime and business disruption after a fire.

Cost effective refilling solution.

Long term availability.

Can be refilled locally by approved gas plants.

Large capacity of cylinders for reduced hardware cost and saving of space.

(INERTECH BRAND SYSTEM)



Cylinder Capacity from 67.5 liter to 160 liters.



Firetronics range of Intelligent System

Fire Alarm System

Optical Smoke Detector (FIO)

The Intelligent Optical Smoke Detector can be used in Office, Lobby, Hallway, Computer Room, Warehouse, Transformer Room, Switch Control Room, etc. The products can be preset the alarm threshold value and can judge the fire alarm automatically.



Heat Detector

The Intelligent Heat Detector can be used in Pantry, Generator room, Boiler room, etc. where smoke is present in the room. The products can be preset the alarm threshold value and can judge the fire alarm automatically.



Combination (Smoke & Heat) Detector (FIM)

The Intelligent Combination Detector consists of Optical Smoke and Heat Detector. The products can be preset the alarm threshold value and can judge the fire alarm automatically.



UV Flame Detector (FIUV)

The UV Flame Detector is low cost Microprocessor based. With Zero false alarms and Wide Temperature range of operation.



Manual Call Point

The Manual Call Point is a device that can send manual fire alarm signals and give fire alarm. It is usually installed in the exit of stairs, hallway and the place where it is accessible. When fire is visualized, press the plastic film which will give alarm signal to the control panel.



Addressable AV Sounder (FIS)

The AV Sounder is a device that can give sound and light signals at the same time. It is usually installed in the exit of stairs, hallway and the place where it is easily audible / visual.



Signal Input Module (FIIM)

Signal Input Module is programmable signal input equipment especially for switch signal (such as water level indicator, pressure switch, Flammable Gas detector, normally open relay contact external control equipment etc.).



Signal Line Control Module (FISCM)

Single line control module is a programmable control module that designed according to different working environments.



Single Input Module for Beam Detector (FIUB)

Signal Input Module is programmable signal input equipment for Signaling Beam Detectors.



Short Circuit Isolator (FISCI)

In the bus system fire alarm system, the whole system usually doesn't work because of the short circuit of the part branch. The function of the circuit isolator is when open circuit occurred on the part branch of the bus, the circuit isolator of the branch will automatically isolate the part of circuit from the bus, which ensures other branch will not be affected.



Addressable Code Programmer

Address Code Programmer is the instrument to Input Address and have parameter test for bus components.



Firetronics Intelligent Fire Alarm Main Control Panel (FCP)

The Firetronics Fire Alarm Control Panel adopts wall mounted installation Method. Available in 1, 2 & 4 Loops. 250 Detectors or Devices can be connected in each loop.



Firetronics Repeater Panel (FCPR)

Easy installation, compact size, beautiful appearance. Large LCD display. English Graphical Interfaces and User Friendly Operations.



This System can take 250 detectors & devices in each loop.

f Firetronics

Early Warning Detection Systems



Aspirating Smoke Detection Systems

ModuLaser is a scalable aspirating smoke detection solution that makes installation easier, monitoring and control more flexible and maintenance faster. It does this by compartmentalizing detection equipment and status display and control equipment into separate housings. This division of components results in a unique modular design that overcomes many of the wiring and piping pitfalls associated with air aspirating equipment.

Option available as per room dimension & area of protection user friendly & can be very effective in clean room protection and early detection. It can be connect via loop module on the intelligent fire alarm system of Apollo protocol system.



Model	Pipeworks lengths maximum in mtrs.	Area of Protection Maximum for each unit
Micra 25	1 x 50	500 sqm
Micra 100	2 x 50	1000 sqm
HSSD2	4 x 50	2000 sqm



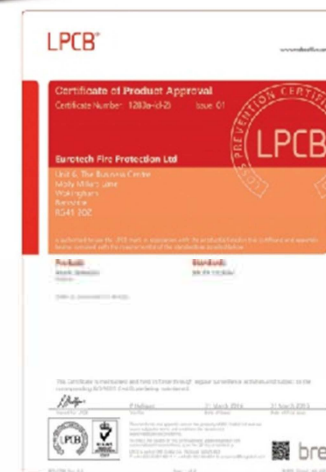
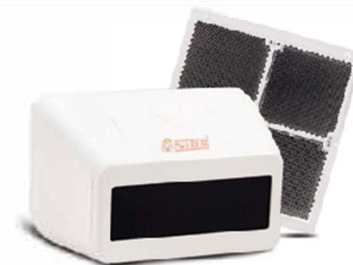
EFPB01 Beam Smoke Detector (Special Application)

The EFPB01 beam smoke detector is designed for smoke detection at the onset of combustion stage. It is especially suited for protection of indoor spaces with high ceiling, in which the appearance of smoke is likely during fire and where, due to a large space area, installation of a greater number of point smoke detectors would be necessary.

The EFPB01 beam smoke detectors are equipped with fire alarm and fault relay outputs, which enable them to operate in detection lines of any fire alarm system control panels as well as in burglar alarm systems.

Technical specifications

Operating voltage	from 9.5 to 28 V
Quiescent current (9.5 - 28 V)	from 8 to 30 mA
Alarm current (9.5 - 28 V) from	20 to 100 mA
Current at which radiation beam is interrupted	< 0.3 mA
Servicing signal current	< 0.3 mA
Operating distance range for Ref-50 prism reflector	from 5 to 50 m
Operating distance range for Ref-100 prism reflector panel	from 50 to 100 m
Sensitivity thresholds (optional)	18 %, 30 %, 50 %*
Power supply of laser target viewfinder (during positioning)	9 V 6F22 battery
Load capacity of relay contacts (fault mode and fire alarm)	1 A/30 V
Detectable test fires	from TF1 to TF5
Operating temperature range	from -25 oC to +55 oC
Relative humidity	up to 95 % at 40 oC
Dimensions	128 x 79 x 84 mm
Mass	0.35kg.



Fire Fighting Products



N V Flexible Sprinkler Pipes



Model NV-B - Braided



Model No	Outlet (in)	K-factor	Assembly Length (mm)	No. of Bends	Eq. length of 1" Sc 40 pipe, ft(m)
NV-B-700	½"	5.6(80)	700	1	33 (10.1)
NV-B-1000	½"	5.6(80)	1000	2	43.6 (13.2)
NV-B-1200	½"	5.6(80)	1200	3	55.9 (17.0)
NV-B-1500	½"	5.6(80)	1500	4	67.5 (20.6)
NV-B-1800	½"	5.6(80)	1800	4	78.8 (23.9)
NV-B-700	¾"	8.0(115)	700	1	28.3 (8.6)
NV-B-1000	¾"	8.0(115)	1000	2	48.1 (14.7)
NV-B-1200	¾"	8.0(115)	1200	3	86.8 (26.4)
NV-B-1500	¾"	8.0(115)	1500	4	111.0 (33.8)
NV-B-1800	¾"	8.0(115)	1800	4	120.8 (36.8)



Model NVSP - Unbraided



Model No	Outlet (in)	K-factor	Assembly Length (mm)	No. of Bends	Eq. length of 1" Sc 40 pipe, ft(m)
NVSP25-700	½"	5.6(80)	700	1	26 (7.9)
NV SP25-1000	½"	5.6(80)	1000	1	36 (11.0)
NV SP25-1200	½"	5.6(80)	1200	3	67 (20.4)
NV SP25-1500	½"	5.6(80)	1500	3	84 (25.6)
NV SP25-1800	½"	5.6(80)	1800	3	101 (30.8)
NV SP25700	¾"	8.0(115)	700	1	32 (9.75)
NV SP251000	¾"	8.0(115)	1000	1	42 (12.8)
NV SP251200	¾"	8.0(115)	1200	3	73 (22.3)
NV SP251500	¾"	8.0(115)	1500	3	77 (23.5)
NV SP251800	¾"	8.0(115)	1800	3	105 (32)

Fire Sprinklers (Automatic & Open)

Sprinkler Range : (F°) 135°, 155°, 175°, 200°
(C°) 57°, 68°, 79°, 93°

Upright and Pendent Standard & Quick.

Response Spray Sprinklers.

Standard & Quick Response Sidewall Spray Sprinklers.

Flush, Recessed and Concealed Sprinklers.



Foam Monitor - 500 GPM to 4000 GPM

HIGH VOLUME LONG RANGE FOAM MONITORS WITH
FIXED / VARIABLE FLOW



Construction :

Body / Nozzle : SS 304 / SS 316

Bearing : SS 304 / SS 316

Inlet : Flanged to IS:1538 / ANSI B 16.5 150 LBS

Outlet : Male BSP Threaded / Water Foam Nozzle

Test Pressure : 25 kgf/cm²

Hose Systems Swinging Type Hose Reel

Reel : Manual & Automatic



- EN 671-1 : 2001 marked Hose Reel Assembly
- EN694 marked, 2W Textile Reinforced PVC Hose
- Working Pressure : 12bar
- Burst Pressure : 42bar
- ABS Shut-off Nozzle : with rotary operated Jet & Spraymode
- Red Powder Coated, 16 SWG M.S Hose Reel Drum Sides
- Brass waterways & M.S mounting, swinging bracket
- Additional 1.5mts EN 694 marked Hose with Ball Valve for supply connection.

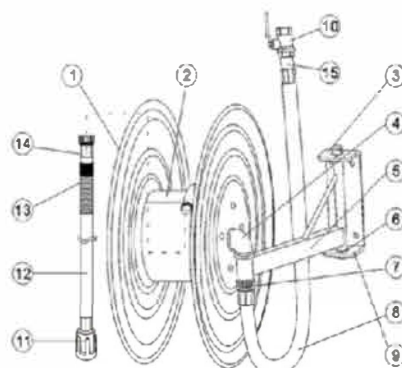
Model	Hose Specification	Drum Diameter	Bracket Length (mm)	Reel Width (mm)
EFPFHRA (Automatic)	19/25mmx30/36.5m	600	300-320	150
EFPFHRA (Manual)	19/25mmx30/36.5m	550	320	150

Product Characteristics

1. Complete Hose reel can be fitted in a hose reel cabinet.
2. Hose reel powder coated and anti-ultraviolet protection and side discs. pressure gauge can be fitted at the reel axis.
3. High pressure resistance; Working at 30 kg pressure but not affected.
4. Endurance test on reel rotation; After over 3000 rotation ,hose reels shows no visible leakage; Our swinging hose reels shall be able to swing 1000 times to minimum 170° and also shows no visible leakage or damage.
5. High pressure spray. The nozzle can be adjusted to jet/spray;
6. Our hose reels can be also used for cleaning when used for fire fighting.

Parts Name

- | | |
|------------------|-------------------|
| 1.Hose reel disc | 2.Plastic hub |
| 3.Bracket | 4.Manual waterway |
| 5.Swinging arm | 6.Locking screw |
| 7. Inlet joint | 8.Connection hose |
| 9.Holder | 10.Valve |
| 11. Nozzle | 12. Fire hose |
| 13.Spring jacket | 14.Outlet joint |
| 15.Connector | |



ISI Approved Portable Fire Extinguishers

An Emergency demands efficient, reliable and effective performance from humans as well as from equipment. A Fire extinguisher is a small pack of reassurance and faith in the safety of lives and property. Its presence could make the difference between distress, disaster and death on one hand and safety, security and serenity on the other.

Realising the crucial role extinguishers play in an accident, NFPI provides a range of products which cater to varying needs based on types of fires, capacity, mount mode, etc. Every product passes rigorous inspection to confirm quality and conform to approval standards.

Easy to Use.

ABC Fire Extinguishers (Gas Cartridge / Stored Pressure Type)

APPLICATION	:	'A', 'B' & 'C' class fires - wood, paper cloth inflammable liquids, gaseous fires & other petroleum fires and electrical fires.					
MODELS	:	1, 2, 4, 6, & 9 Kgs.					
CONFORMING TO	:	<table><tr><td>Capacity</td><td>1 / 2 / 4 / 6 / 9 Kgs</td></tr><tr><td>ABC Type</td><td>IS 15683</td></tr></table>	Capacity	1 / 2 / 4 / 6 / 9 Kgs	ABC Type	IS 15683	
Capacity	1 / 2 / 4 / 6 / 9 Kgs						
ABC Type	IS 15683						



Product Range

1. Carbon Dioxide Fire Extinguishers
2. Dry Chemical Powder & ABC Fire Extinguishers
3. Water Type Fire Extinguishers - Gas Cartridge & Stored pressure type
4. HFC227ea Clean Agent Fire Extinguishers
5. Mechanical Foam Fire Extinguishers - Gas cartridge & Stored pressure type
6. AFFF / Monnex / ABC Dry Powders

Carbon Dioxide Extinguishers

APPLICATION	:	Inflammable liquids, gaseous and electrical fires.						
MODELS	:	2, 3, 4.5, 6.5, 9, 22.5 kgs.						
CONFORMING TO	:	<table border="1"> <tr> <td>Capacity</td><td>2 / 3 / 4.5 Kgs</td><td>6.5 / 9 / 22.5 Kgs</td></tr> <tr> <td>CO₂</td><td>IS 15683</td><td>IS 16018</td></tr> </table>	Capacity	2 / 3 / 4.5 Kgs	6.5 / 9 / 22.5 Kgs	CO ₂	IS 15683	IS 16018
Capacity	2 / 3 / 4.5 Kgs	6.5 / 9 / 22.5 Kgs						
CO ₂	IS 15683	IS 16018						
MOUNTING	:	Wall, Floor and Trolley Mounting						



ISI Approved Portable Fire Extinguishers



Dry Chemical Powder Extinguishers

APPLICATION	:	'B', 'C' Class fires - inflammable liquids, gaseous fires like L.P.G. and acetylene, and electrical fires.		
MODELS	:	1, 2, 4, 6, 9, 25, 50, & 75 kgs.		
CONFORMING TO	:	Capacity	1 / 2 / 4 / 6 / 9 Kgs	25 / 50 / 75 Kgs
		DCP	IS 15683	IS 16018
MOUNTING	:	Wall, Floor and Trolley Mounting (heavier models).		



Clean Agent Gas Based Portable Fire Extinguishers



Water Fire Extinguishers (Gas Cartridge / Stored Pressure Type)

APPLICATION	:	'A' class fires-wood, paper, cloth and other carbonaceous materials.		
MODELS	:	9 Litre, 50 Litre.		
CONFORMING TO	:	Capacity	9 liter	45 / 60 liter
		Gas Cartridge Type	IS 15683	IS 13385
		Stored Pressure Type	IS 15683	
MOUNTING	:	Wall, Floor Mounting		



APPLICATION : Inflammable solids and liquids, Gaseous and electrical fires.

MODELS : 2, 4 & 6 kgs.

MOUNTING : Wall, Floor Mounting

CONFIRMING TO	:	Capacity	2 / 4 / 6 Kgs
		Clean Agent	IS 15683

Modular Fire Extinguishers



Modular Type Clean Agent & ABC powder Automatic fire extinguishers for 24x7 protections of unmanned closed areas.

- Automatic Detection and Suppression in one single System no human intervention needed for activation.
- No power back up needed.
- Easy to install.
- Automatic Discharge at Pre set defined temperature.

ISI Approved Fire Extinguishers



Mechanical Foam Extinguishers (Gas Cartridge / Stored Pressure Type)

APPLICATION : 'A' & 'B' Wood, Paper, Cloth, Class fires, inflammable liquids, chemicals, petroleum products, solvents, paints, fats, etc.

MODELS : 9 Litre, 45 Litre, 60 Litre.

CONFORMING TO	Capacity	9 liter	45 liter	60 liter
	Gas Cartridge Type	IS 15683	IS 16018	IS 16018
	Stored Pressure Type	IS 15683		

MOUNTING : Wall, Floor and Trolley Mounting (heavier).



Nitin Fire Stop Automatic Fire Suppression System

Fire Stop is a simple self-activating system, specifically designed for installation inside enclosures, cabinets and machinery housing electrical panels, enclosed spares to trigger automatically and extinguish fires at source and signal the same. It is ideal for any application where the potential fire risk is located within an enclosed or confined space.

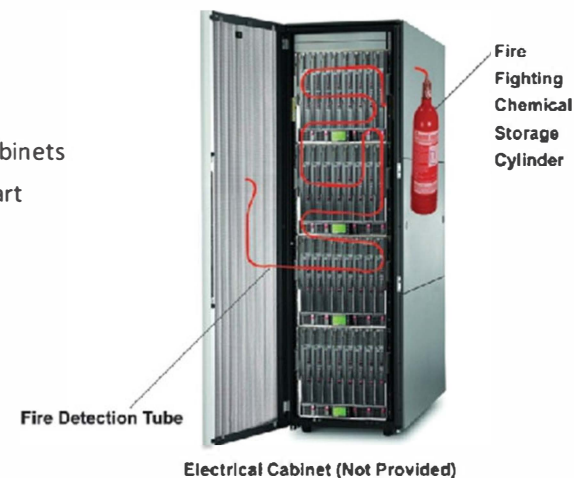
Fire Stop can be supplied in 1kg, 2kg, 5kg, and 10kg capacity extinguisher fitted with Polymer tube with required length as per application requirement. With extinguishing media of clean agent gas or special chemical as required.

Application

- Electrical Enclosures
- Transformers
- Power Vaults
- Fume Cabinets
- Data centres
- Motor control centres
- UPS systems
- Cable Trays
- Server Racks
- CNC Machine
- Engine Spares

Advantages

- Self Contained System no Power required for the operation
- Fast and effective fire detection and suppression for Electrical and Fume cabinets
- Installs directly inside cabinets among circuitry closer to where a fire can start
- NITIE Stop can be fitted in Virtually any cabinet new or existing
- A complete pre engineered system ready to install within minutes
- NITIE Stop Pre Engineered Systems available from 3 ltrs – 68 ltrs
- Extremely Cost Effective
- Direct & Indirect system available.



Automatic Fire Protection For Vehicles

When it comes to safeguarding lives as well as equipment, our system provides a comprehensive fire protection coverage with excellent firefighting performance and reliability.

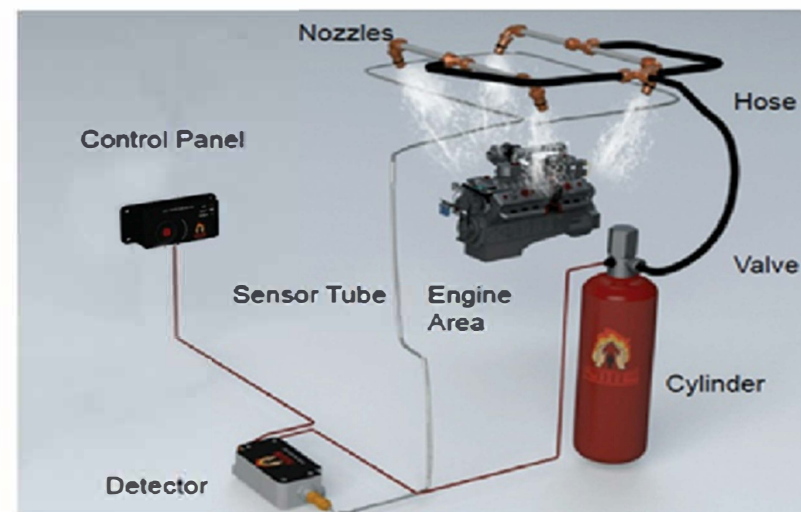
NFPIL's Automatic Fire Detection & Suppression System (FDSS/ FDAS) is an effective and efficient advanced fire protection solution.

Over the years our system has been protecting millions of passengers that travel on public transportation and the armed troops who rely on the confidence of our system to stay inside vehicle when combat occurs.

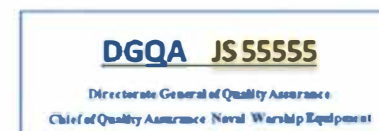
Most fires in the vehicles originate in the engine compartment or battery area which is usually out of sight and hence is unnoticeable at early stages. Slow response time severely risks both property and life.

Features & Benefits :

- 1) Fast Detection** : Quickly detects fire to minimize damages and injuries.
- 2) Robust Structure** : Eliminates leakage failures, while better tolerating grime and dirt. Can detect even harsh environmental condition.
- 3) Easy Installation** : Durable, Flexible stainless steel tubing can be routed to monitor large compartment.
System comes in ready to fit packaging and can be retro fitted on most vehicles.
- 4) Cost – Effective** : No need for multiple detectors. The system can be reused even after a fire event*.
- 5) Reliable** : Minimal risk of false alarms.
- 6) Distant Sensing** : Identifies fire occurring a considerable distance from the sensor tubing.
- 7) Durable** : The system is certified as per US, Israel and Indian Military standards and has been used extensively on Military Vehicles.



Certifications :



MIL STD
1275 B

MIL STD
SAE J1113-13

MIL STD
810 F

MIL STD
461 F

Carbon Dioxide Co2 Industrial Fire Suppression Systems



Co2 is versatile

The CO2 is stored as liquid, under pressure when a system is activated, the liquid CO2 flows through discharge pipe work to specially designed nozzles. The agent's low boiling point means that the liquid vaporizes rapidly during the discharge, providing a penetrative three dimensional action. The rapid expansion of the gaseous agent allows fires to be targeted even in the most inaccessible areas of the risk.

Fire is extinguished by reducing the oxygen level in the risk area to the point where combustion cannot be sustained. Cooling is a secondary action of the agent; this feature is used in local applications where the liquid phase of the discharge is applied directly to the fire and risk materials.

Co2 is fast and efficient

The Eurotech / Eurosafe Fire Protection High Pressure CO2 systems uses large bore cylinder valves, enabling high mass flow rates to be achieved. The fast action of the control system and valve enables the system to react within the first few seconds of a fire that can make the difference between a nuisance and a disaster.

Co2 is low cost

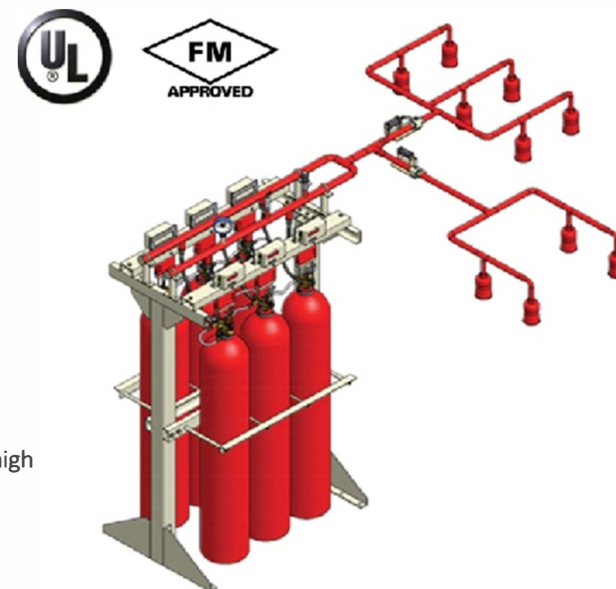
Carbon dioxide is a standard commercial product with many other uses and it is readily available throughout the world. Because of its universal use it can be obtained inexpensively and this is an important consideration when frequent recharging of storage containers is necessary as in local application systems, where fires may be more frequent.

Benefits

Manual or automatic operations
Pilot cylinder or Direct Acting Solenoid operating system
Continuous weight monitoring option
Design compliance with BS5306-4
Fully compatible with Eurotech / Eurosafe Fire Protection control panels.

System Design

Details of both total flooding and local application systems are contained in the Eurotech / Eurosafe Fire Protection CO2 Design manual.



Typical applications

- Printing presses, flow solder machines
- Paint spray booths
- EDP / Computer rooms and floor voids
- Commercial kitchens
- Transformers
- Generators
- CO2 is not the agent of choice for manned areas. Please contact Eurotech / Eurosafe Fire Protection Applications Department for more information.

Eurosafe High Pressure Water Mist System

Fire catastrophes are a threat to human life, cultural and industrial asset, private and corporate property and even our environment. From complex fire suppression for museums and heritage sites, to industrial application over office buildings, universities and wind turbines, this system has a successful track record within commercial and industrial application.

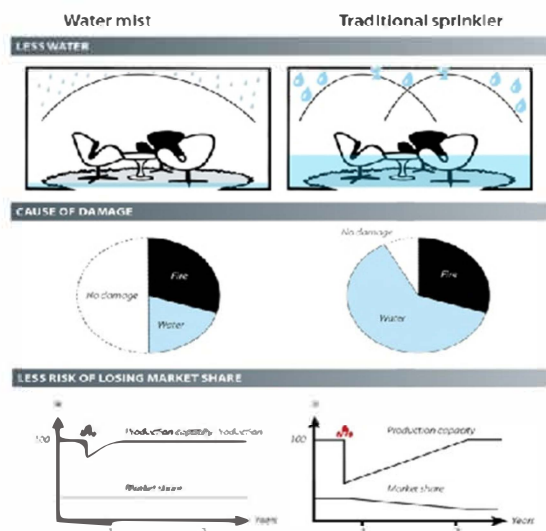
EUROSAFE system provides better protection than existing water systems while being 100 % environmentally-friendly, harmless to users and with far less impact on buildings and interiors. It significantly reduces lifecycle costs, asset damage and operational downtime in all 'business critical' applications, and offers the best protection of irreplaceable valuables. This offers a greatly enhanced cost/benefit ratio when compared to traditional systems.

Eurosafe High Pressure Water Mist System can be installed at :

- Transformer
- Atriums
- Hotels
- Garages
- Tunnels
- Wind Turbine
- Schools
- Computer Rooms
- Special Construction
- Libraries And Archives
- Galleries And Museums
- Paint Spray Booth
- Cable Channels
- Industrial Production Lines
- Industrial Deep Fat Fryers
- Commercial Deep Fat Fryers



Advantages of High Pressure Water Mist System



Minimum use of water

- Limited water damage
- Minimal damage in the unlikely event of accidental activation
- Less need for a pre-action system
- An advantage where there is an obligation to catch water
- A reservoir is rarely needed
- Local protection giving you faster fire fighting
- Less downtime due to low fire and water damage
- Reduced risk of losing market shares, as production is quickly up and running again
- Efficient - also for fighting oil fires
- Lower water supply bills or taxes

Various Type of Hydrant Valves and Branch Pipe



Oblique Gun Metal



Oblique SS Metal



Right Angle



Double Controlled



Oblique BS : 336



Oblique BS : 336



Double Controlled



Screwed Inlet

(a) : Inlet having flange dimension available as per British, (BS) American (ASA), DIN, Indian (ISI) Standards. Outlet of valve 2½" Female or Male Instantaneous as per BS : 336. There is controlled stem (spindle) rising to control output of valve almost 900 LPM / with 2½ size inlet 10 kg/cm² pressure.

(b) : Screwed inlet and outlet valves also manufactured in size range 1½", 2", 2½", with British standard thread. Outlet may instantaneous connection.

Size available is 1½", 2", 2½", 3".

Branch Pipe

MOC : Gun Metal / Stainless Steel / Aluminium Alloy

Sizes : Generally 2½" Male Instantaneous / Screwed

Working Pressure : 7 kgf. / cm²

Test Pressure : 21 kgf. / cm²

Long Range Jet and Fog Pattern



Male Diffuser



Short



Revolving Nozzle



Jumbo Curtain



Water Curtain



Select-o-Flow

Maharashtra Fire License



Nitin Fire Hold License From Maharashtra Fire Services


Govt. of Maharashtra
Directorate of Maharashtra Fire Service
Vijaynagar, Hans Bhuga Marg, Santacruz (East)
Mumbai - 400 098, Tel-022-26677555, Fax-022-26677666
www.mahafireservice.gov.in

FORM N
[(See section 9 (3) and rule 14)]
License to act as a License Agency for the purpose of
Fire Prevention and Life Safety Measures

License No. MFS / LA / RF-425 / RD-398 Date: 19.08.2023

License is hereby renewed under the provisions of sub-section (3) of section 9 of the Maharashtra Fire Prevention and Life Safety Measures Act, 2006 (Mah. III of 2007) to **Mrs. Nitin Fire Protection Industries Ltd** having their registration office at **501, Delta Technology Street, Miranandani Garden, Powai, Mumbai 400 076** and their contact details are Office Number: 9967757011 and Email ID: info@nitinfire.com with TAN registration No. AAACN1967G and GST No. 27AAACN1967G1ZF to act as a License Agency for the purpose of the said Act for execution of the fire prevention and life safety measures in relation to

1. Fire Fighting and Sprinkler System: Class A
2. Detection and Fire Suppression System: Class A

Mrs. Nitin Fire Protection Industries Ltd shall not issue Form A or Form B under sub-section (3) of section 3 regarding the compliance of the fire prevention and life safety measures or maintenance thereof in good repair and efficient condition, without there being actual such compliance or maintenance failing which license granted / renewed shall be suspended or cancelled as per sub-section (4) of section 9 and shall be liable for penalty under section 36 of the Act.

Subject to the provision of sub-section (4) of section 9 of the said Act and rule 14 of the Maharashtra Fire Prevention and Life Safety Measures Rules, 2009, the license will be valid for a period from **19.08.2023 to 18.08.2025**

Haty
Kiran
Asst. Director

RAHUL NITIN SHAH
Asst. Director


Director
Maharashtra Fire Service

Digital Signature of Authorized Person to sign Form A or Form B

Note:
* In absence of digital sign of license holder (responsible to issue Form A or Form B) the license will be treated as invalid.

This license has been issued under the provisions in section 9 (5) and section 18 (2) and is valid in all Local Authorities as defined in section 2 (7) & Planning Authorities as defined in section 2(12) of the Maharashtra Fire Prevention and Life Safety Measures Act, 2006.

- The licence shall be :-
 - Non-transferable
 - Valid for two year from the date of issue, unless suspended or cancelled earlier.
 - Renewable, if so desired, before expiry of the licence.
- Changes, if any, in respect of the -
 - Partners, Directors or Members
 - Address of the office of the License Agencyshall be forthwith reported to the Directorate of Maharashtra Fire Service.
- The Licensed Agency shall always keep the work executed or being executed, open for inspection by the Director, or any Fire Officer authorized by the Director.
- The Licensed Agency shall issue a certificate in Form 'A' to the client in respect of the works executed by them and shall issue a six monthly certificate in Form -'B', in every January and July after carrying out inspection of the Fire Prevention and Life Safety Measures work executed, being executed by them is in good repair and efficient conditions at all times.
- Refer Circular issued by this Office vide No. MFS/51/2023/235, dated 15.02.2023
- Mrs. Nitin Fire Protection Industries Ltd., (Company) has paid amount of Rs. 50,000/- (Rs. Fifty Thousand Only) vide UTR No. IBKL230711957851, dated 11.07.2023 towards registration fees.**


Govt. of Maharashtra
Directorate of Maharashtra Fire Service
Vijaynagar, Hans Bhuga Marg, Santacruz (East)
Mumbai - 400 098, Tel-022-26677555, Fax-022-26677666
www.mahafireservice.gov.in

PESO Approved



We have our filling station approved by PESO for storage and filling of gases


फॉर्म F / FORM F
नियम 50, 51 और 54 (See Rules 50, 51 and 54)
Licence to store compressed gas in cylinders

अनुमति संख्या/ Licence No. : GHO/MH/06/267(G2086) वार्षिक शुल्क/ Fee Rs. 6000/- per year

NITIN FIRE PROTECTION INDST. LTD., 501 DELTA TECHNOLOGY STREET, HIRANANDANI GARDEN, City: Mumbai, Taluka: Mumbai, District: MUMBAI, State: Maharashtra, Pin: 400076 को भरी जाति और गैसों संग्रहीत संस्था GHO/MH/06/267(G2086) dated 25/06/2001 में दर्ज किए गए अनुमति पत्र में, भारतीय विस्फोटक अधिनियम, 1884 (1884 का 4) और उसके अधिनियम द्वारा निर्धारित कि अन्य शर्तों के अधीन रहते हुए, केवल संयोजित गैस से भरे सिलिंडरों को रखने के लिए ही विधिवत अनुमति दी जाती है। / Licence is hereby granted to NITIN FIRE PROTECTION INDST. LTD., 501 DELTA TECHNOLOGY STREET, HIRANANDANI GARDEN, City: Mumbai, Taluka: Mumbai, District: MUMBAI, State: Maharashtra, Pin: 400076 valid only for the possession of cylinders filled with compressed gas in the licensed premises described below and shown in the plan No GHO/MH/06/267(G2086) dated 25/06/2001 subject to the provisions of the Explosives Act, 1884(4 of 1884) and the Rules made thereunder and to the further conditions of this licence.

यह अनुमति 30 सितम्बर 2025 तक प्रवृत्त रहेगी। / The Licence shall remain in force till the 30th September 2025.

For Chief Controller of Explosives
Nagpur
कृते मुख्य विस्फोटक नियंत्रक
नागपुर

June 25, 2001

अनुमति पत्र का विवरण और अवस्थिति / DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

निम्नलिखित विवरण के अनुसार सिलेक्टो में भरी गैस रखने के लिए अनुमति पत्र, जिसकी अभिव्यक्ति संकेतों और अन्य विवरणों को संलग्न अनुमति पत्र सं. GHO/MH/06/267 dated June 25, 2001 में दिखाया गया है। / TURBHE में अवस्थित है और निम्नी एक गाँवपालिका है। / The licensed premises, the layout boundaries and other particulars of which are shown in the attached approved plan No. GHO/MH/06/267 dated June 25, 2001 are situated at TURBHE and consists of a storage shed for possession of the gas contained in cylinders as described here under:


गैस का प्रकार / Type of Gas	मात्रा / Quantity
a) विषैले / Toxic	-NIL-
b) गैर विषैले और गैर जलनशील / Non-Toxic and Non Flammable	Halon 1211 - 90 Nos., Halon 1301 - 90 Nos., HFC 227 ea - 90 Nos., FM 200 - 90 Nos., FE 227 - 90 Nos., NOVEC-1230 - 90 Nos., Halon 2402 - 90 Nos.
c) गैर विषैले और जलनशील / Non-Toxic and Flammable	-NIL-
d) विलीय एसिटिलेन गैस / Dissolved Acetylene Gas	-NIL-
e) विषैले और जलनशील द्रवित गैस / Non-Toxic & Flammable liquefiable gas other than LPG	-NIL-
f) तरलपेट्रोलियम गैस / Liquefiable Petroleum Gas	-NIL-

और प्लॉट संख्या PlotNo. :- गली का नाम गाँव : TURBHE पोल स्टेशन पता : SANAPADA जिला : MUMBAI राज्य : Maharashtra.
/ and is situated at PlotNo. :- Village/Town : TURBHE Police Station : SANAPADA District : MUMBAI, State: Maharashtra.

नवीकरण के लिए स्थान / SPACE FOR ENDORSEMENT OF RENEWALS

नवीकरण की तारीख / Date of Renewal	समाप्ति की तारीख / Date of Expiry	अनुमति प्रदाता की हस्ताक्षर/Signature and stamp of the licensing authority
26/10/2024	30/09/2025	Manoj N Nandanwar CE For Jt. Chief Controller of Explosives Mumbai

यदि अनुमति पत्र पर उल्लेखित विवरण और शर्तों के अनुरूप नहीं पाया जाता है और निम्न निर्णयों और शर्तों के अधीन यह अनुमति दी गई है, उनसे कि किसी का उल्लंघन होता है तो यह अनुमति रद्द की जा सकती है और अनुमति का धारक कारावास से, जिसकी अवधि दो वर्ष तक की हो सकती है, या जुर्माने से, जो तीन हजार रुपये तक का हो सकता है, या दोनों से, दण्डनीय भी होगा। / This licence is liable to be cancelled if the licensed premises are not found conforming to the description and conditions attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable with imprisonment for the term which may extend to two years or with fine which may extend to three thousand rupees or with both.


फॉर्म F / FORM E
नियम 50, 51 और 54 (See Rules 50, 51 and 54)
Licence to fill compressed gas in cylinders

अनुमति संख्या/ Licence No. : GHO/MH/05/286(G2086) वार्षिक शुल्क/ Fee Rs. 5000/- per year

NITIN FIRE PROTECTION INDST. LTD., 501 DELTA TECHNOLOGY STREET, HIRANANDANI GARDEN, City: Mumbai, Taluka: Mumbai, District: MUMBAI, State: Maharashtra, Pin: 400076 को गैस भरी और गैसों संग्रहीत संस्था GHO/MH/05/286(G2086) dated 25/06/2001 में दर्ज किए गए अनुमति पत्र में, भारतीय विस्फोटक अधिनियम, 1884 (1884 का 4) और उसके अधिनियम द्वारा निर्धारित कि अन्य शर्तों के अधीन रहते हुए, केवल संयोजित गैस से भरे सिलिंडरों को रखने के लिए ही विधिवत अनुमति दी जाती है। / Licence is hereby granted to NITIN FIRE PROTECTION INDST. LTD., 501 DELTA TECHNOLOGY STREET, HIRANANDANI GARDEN, City: Mumbai, Taluka: Mumbai, District: MUMBAI, State: Maharashtra, Pin: 400076 valid only for the filling of cylinders with compressed gas in the licensed premises described below and shown in the plan No. GHO/MH/05/286(G2086) dated 25/06/2001 subject to the provisions of the Explosives Act, 1884(4 of 1884) and the rules made thereunder and to the further conditions of this licence.

यह अनुमति 30 सितम्बर 2025 तक प्रवृत्त रहेगी। / The Licence shall remain in force till the 30th September 2025.

For Chief Controller of Explosives
Nagpur
कृते मुख्य विस्फोटक नियंत्रक
नागपुर

June 25, 2001

1) Amendment dated - 22/01/2008

अनुमति पत्र का विवरण और अवस्थिति / DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

निम्नलिखित विवरण के अनुसार सिलेक्टो में भरी गैस रखने के लिए अनुमति पत्र, जिसकी अभिव्यक्ति संकेतों और अन्य विवरणों को संलग्न अनुमति पत्र सं. GHO/MH/05/286 dated June 25, 2001 में दिखाया गया है। / TURBHE में अवस्थित है और निम्नी एक गाँवपालिका है जो दर्ज गाँव Halon 1211 - 1 Nos.(1x1), Halon 1301 - 1 Nos.(1x1), HFC 227 ea - 1 Nos.(1), FM 200 - 1 Nos.(1X1), FE 227 - 1 Nos.(1), NOVEC-1230 - 1 Nos.(1), Halon 2402 - 1 Nos.(1 x1) विधि पट्टिका है। / The licensed premises, the layout boundaries and other particulars of which are shown in the attached approved plan No. GHO/MH/05/286 dated June 25, 2001 are situated at TURBHE and consists of Halon 1211 - 1 Nos.(1x1), Halon 1301 - 1 Nos.(1x1), HFC 227 ea - 1 Nos.(1), FM 200 - 1 Nos.(1X1), FE 227 - 1 Nos.(1), NOVEC-1230 - 1 Nos.(1), Halon 2402 - 1 Nos.(1 x1) filling points with connected other facilities for filling of the gases in cylinders as described here under:

गैस का प्रकार / Type of Gas	मात्रा / Quantity
a) विषैले / Toxic	-NIL-
b) गैर विषैले और गैर जलनशील / Non-Toxic and Non Flammable	Halon 1211, Halon 1301, HFC 227 ea, FM 200, FE 227, NOVEC-1230, Halon 2402
c) गैर विषैले और जलनशील / Non-Toxic and Flammable	-NIL-
d) विलीय एसिटिलेन गैस / Dissolved Acetylene Gas	-NIL-
e) विषैले और जलनशील द्रवित गैस / Non-Toxic & Flammable liquefiable gas other than LPG	-NIL-
f) तरलपेट्रोलियम गैस / Liquefiable Petroleum Gas	-NIL-

और प्लॉट संख्या PlotNo. :- गली का नाम : TURBHE गाँव : TURBHE पुलिस पता : SANAPADA जिला : MUMBAI राज्य : Maharashtra. / and is situated at PlotNo. :- Name of Street : TURBHE Village/Town : TURBHE Police Station : SANAPADA District : MUMBAI, State: Maharashtra.

नवीकरण के लिए स्थान / SPACE FOR ENDORSEMENT OF RENEWALS

नवीकरण की तारीख / Date of Renewal	समाप्ति की तारीख / Date of Expiry	अनुमति प्रदाता की हस्ताक्षर/Signature and stamp of the licensing authority
26/10/2024	30/09/2025	Manoj N Nandanwar CE For Jt. Chief Controller of Explosives Mumbai

यदि अनुमति पत्र पर उल्लेखित विवरण और शर्तों के अनुरूप नहीं पाया जाता है और निम्न निर्णयों और शर्तों के अधीन यह अनुमति दी गई है, उनसे कि किसी का उल्लंघन होता है तो यह अनुमति रद्द की जा सकती है और अनुमति का धारक कारावास से, जिसकी अवधि दो वर्ष तक की हो सकती है, या जुर्माने से, जो तीन हजार रुपये तक का हो सकता है, या दोनों से, दण्डनीय भी होगा। / This licence is liable to be cancelled if the licensed premises are not found conforming to the description and conditions attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable with imprisonment for the term which may extend to two years or with fine which may extend to three thousand rupees or with both.

NITIN FIRE PROTECTION INDUSTRIES LIMITED



** Customer Satisfaction is our Motto.**

Address:

C-801, Neelkhanth Business Park,
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India
Tel : 022 – 40457000
Email Id : sales@nitinfire.com
Website : www.nitinfire.com