



فأيايتر ففتر كو  
**FIRE FIGHTER CO**  
لمعدات الامن والسلامة ش.ذ.م.م.  
Security And Safety Equipment L.L.C

The Fire Protection Engineers



**FFC**



متخصصون في جميع معدات و أنظمة الوقاية و اطفاء الحريق  
Specialist For All Kind of Fire Equipment & Fire Protection & Fighting System

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Security And Safety Equipment L.L.C  
Fire Protection Engineers



**INTRODUCTION LETTER**



Dear Prospective Client,

Thank you for the opportunity to introduce the services offered by the Fire Fighter Co Security and Safety Equipment L.L.C. It's our pride to introduce our company as one of the growing contractor in the field of Installation and supply of firefighting and fire alarm system. We provide the latest technology and equipment and standard installation as per the Dubai Civil Defense allowing us to give our customers the best service possible on construction site and through other safety purposes.

The company also introduces the construction, supply and installation of Central LPG system. Manpower has at all times poised to get the right man with right qualification, experience and aptitude of the right jobs. We provide flexible end-to-end solutions that assist companies and individuals to meet their objectives by giving the possible services at an affordable price of the project.

Fire Fighter Co had proven service record of accomplishments for providing exceptional quality, innovative management and professional integrity in the installation of Fire Fighting alarm system. Our active team of project managers, engineers and delivering beyond expectations.

Fire Fighter Co is amongst the very few companies who are involved in making the latest technologies work for their customers with the vision of bringing solutions to meet the strategic goals of a company and to provide intelligence to the businesses to make better decisions, using the best of standards.

As recommended, we intend to provide you with the best of our knowledge on installation of Fire Alarm and Fire fighting system in seeing that you get the full benefit of a proper guide in your end. We are also quite confident of our ability to respond to your demands, looking forward for a response to serve the best.

**Fire Fighter Co  
Security and Safety Equipment L.L.C.**



# فاير فايتير كو FIRE FIGHTER CO Security And Safety Equipment L.L.C Fire Protection Engineers

## COMPANY

The company is a leading Giant and at the estate level in the field of fire-fighting equipment, which extends its Dubai and Sharjah and the company undertakes to work hard and savior through a working group is characterized by professional and academic experience in the field of high security and fire safety with the presence of technical staff and management at a high level of professional competence and carry the company undertook in collaboration with the Department of Civil Defense to reduce disasters cause by fire and arms with latest technology reached by international companies in ways to combat the fire and eliminate the dangers caused.

The company also introduce the Construction, Supply and installation of Central LPG system. Manpower has at all times poised to get the right man with right qualification, experience and aptitude of the right jobs. A company such as yours is backbreaking and at times impossible to find. Esteemed having exacting standards of prompt loyalty, dedication, confidence etc. Standard that have taken years to perfect creating more jobs that are to be filled with people who match the standards already placed within the organization. This is where Fire Fighter Co Security and Safety Equipments steps in leading Electro Mechanical Services has at all the times executed the jobs with the right workers specified at the best possible cost and the least possible time.



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### AREAS OF WORK

Design

Engineering

Supply

Installation

Testing

Commissioning

Authority Approval

Client Training

Maintenance

Refurbishment

Retrofitting



Being a market pioneer for all the fire related safety & security systems, some of our salient activities are:

- Fire Alarm Systems, Voice Evacuation, Third Party Integration, Central Graphic Annunciation and Controls.
- Water-based Fire Protection Systems such as Standpipe, Automatic Sprinkler, Deluge, Water Mist, Pr-action, Fire Pumps and associated controls.
- Foam Sprinkler System, Foam Water Deluge System, protection of Oil Tanks (Top Pourer, Back Pressure Injection), hangar Fire Protection Systems such as, Low, Medium & High Expansion Foam System.
- Hose Reel, Dry/Wet riser & Standpipe Systems
- Fire Fighting Appliances & all ancillaries
- Clean Agent Fire Extinguishing System, (FM-200, NAF-S-227, NAF-S-125, CO2 and Dry & Wet Chemical Systems)
- Integrated Security, CCTV & Access Control Systems
- Emergency Lighting System
- Audio & Video Intercom System
- Gate Barrier System
- Public Address System
- Aspiration Smoke/Linear Heat Detection and Controls.
- Closed Circuit Television Systems
- VESDA System
- Fire Extinguishing Aerosol system



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## FIRE DETECTION ALARM SYSTEM

### 1 to 8 Loop Fire Control Panels



#### Product Overview

- The VF 1460 and VF 1480 analogue addressable FACP supports 1 or 8 SLC loops for a total of 500 primary points or 800 points using sub points
- SLC loop communications use standard twisted pair cabling, shielded cable is not necessary
- The panel may be configured with various communication cards. Communications options support central station monitoring, virtual panel and networking
- The panel can be configured as a stand alone panel with just a few devices for a small building, it can also operate as a building system and can be part of a network with a total of 64 nodes serving a multiple or a very large facility
- Auto Learn capability provides a convenient method to trouble shoot new installations before final programming is loaded



#### Standard Features

- UL 864, 9th Edition listed
- Multi Loop 2 Analog Addressable Loops Field upgradeable to 8
- 126 Primary points per Loop
- Powerful, network wide cause and effects (500 total) Fully user programmable by point or zone
- 800 Points per panel when using devices with sub points
- Up to 10,000 Ft. wiring length on SLC loop
- 64 Panels on a network
- Programmable through PC connection to the panel, or through keypad
- Programmable relays - 5
- Supervised Powered Outputs - 3
- Programmable Notification Appliance Circuits - 4
- Power per NAC 1.6 Amps Max
- Programmable outputs on SLC loop
- Programmable Function Button on front display
- Fire Drill Button on front display
- Day and night sensitivity settings (user programmable)
- Power Supply 5.25 Amp. regulated and integrated
- LCD Supply 8 x 40
- Zonal Mode: Annunciation by Zone w/o individual relationships
- Panel Ring Modes: Common, Zonal, Stage-2
- NAC Outputs programmable as Continuous, March, Temporal
- Program Cause and Effects AND, OR, or Any Two (Cross Zone)
- Battery Size up to 17 Ah in standard enclosure up to 52 Ah with external cabinet

#### Also Available

- Networking Option
- Repeater Panel
- Graphic Intelligence
- Modules Connectivity

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**FIRE DETECTION ALARM SYSTEM**



**Conventional Fire Alarm Systems**

**Product Description**

**Fire Alarm Systems 2 to 64 Zone Control Panels**

**Including Devices & Accessories:**

- Ionisation Smoke Detector
- Optical Smoke Detector
- Heat Detector
- Multi sensor
- Manual Call Point
- Electronic Sounder & Beacon
- Fire Alarm Bell-60
- Remote Indicator
- Beam Detector





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### FIRE DETECTION ALARM SYSTEM

#### Intelligent Fire Alarm Systems

##### SOTERIA® Optical Smoke Detector

- Pure Light® optical technology reduces false alarms and enhances smoke recognition
- Utilises digital CoreProtocol® communications
- Compatible with XP95 and Discovery systems\*
- Compatible with existing fire control panels\*
- Mechanically compatible with existing bases
- Available with or without integrated switchable isolator
- Drift compensation
- Tri-coloured LED status indicator

##### SOTERIA® Heat Detector

- Dual heat sensors
- Utilises digital CoreProtocol® communications
- Compatible with XP95 and Discovery systems\*
- Compatible with existing fire control panels\*
- Mechanically compatible with existing bases
- Available with or without integrated switchable isolator
- Tri-coloured LED status indicator

##### SOTERIA® Optical/Heat Multi sensor Detector

- Dual heat sensors
- PureLight® optical technology reduces false alarms and enhances smoke recognition
- Utilises digital CoreProtocol® communications
- Compatible with XP95 and Discovery systems\*
- Compatible with existing fire control panels\*
- Mechanically compatible with existing bases
- Available with or without integrated switchable isolator
- Tri-coloured LED status-indicator

##### XPERT 8 Intelligent Mounting Base

- Compatibility with Soteria, XP95 and Discovery detectors
- Isolated and Non-isolated devices supported
- Isolated wiper - maintains loop connectivity during temporary removal of devices
- XPERT 8 card for CoreProtocol\*
- E-Z Fit' allows for simple mounting of the detector base after wiring
- Keyed to accept only addressable devices
- Base mark allows for LED detector alignment

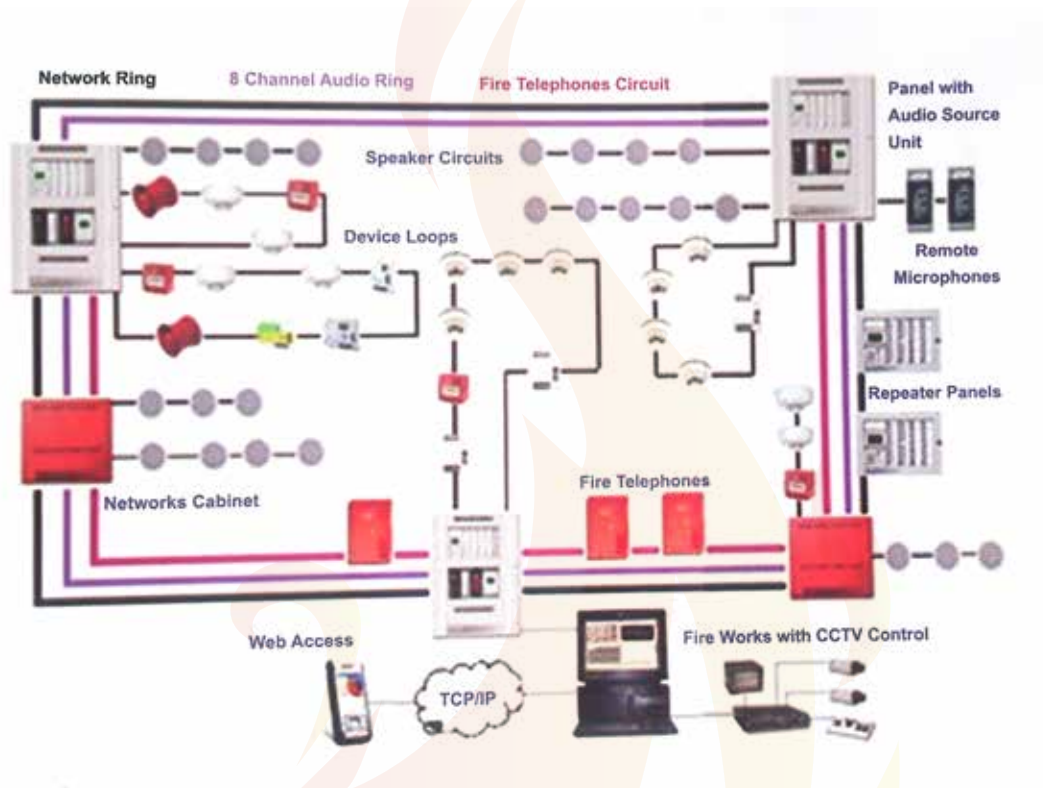


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## FIRE DETECTION ALARM SYSTEM

### Voice Evacuation Systems



- We have customized Voice Evacuation System to be integrated with your existing Fire Alarm System or New Fire Alarm System
- Our System Provide real time LCD Display with hand free option. Zonal amplifier and Zonal Output.
- Fire Fighter Telephone Jack system also available.
- It is a robust system fully integrated to fire alarm system to avoid any error into reporting.
- Designed to NFPA Standards. This system is very reliable and user friendly.
- Large wiring Network help system for large application easily usable.





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### EMERGENCY LIGHT SYSTEM



**EUROSAFE 634 L**

- Working Voltage: AC 120v/277v 60 Hz
- AC power: 6W
- emergency duration time: more than 2 hours
- Light Source: 20pcs LED
- Battery: Ni-CD 3.6V3Ah
- Working Temperature: -5°C -45°C
- Working Humidity: <90%RH
- Over charging and discharging protection
- Charging LED indicator and test button
- Product size: 35.6x11.9x7 .8cm



**EUROSAFE 632 L**

- **EUROSAFE – 632L**
- Working Voltage: AC 120v/277v 60 Hz
- AC power: 6W
- Emergency duration time: more than 2 hours
- Light Source: 20pcs LED
- Battery: Ni-CD 3.6V3Ah
- Working Temperature: -5°C \_45oc
- Working Humidity: <90%RH
- Over charging and discharging protection
- Charging LED indicator and test button

### Features

1. Certificate: UL
2. The housing is adopted with High Precision Molding.
3. White Housing, fire retardant ABS
4. Using high active 5050 LED light source
5. High brightness, long life
6. Economical, reliable and safety
7. Can be used under power input 220v-240v
8. Easy installation and maintenance

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**EMERGENCY EVACUATION LIGHTS & SIGNS**

Emergency Evacuation Sign Lights Contribute Great In Life Saving And Avoiding Hazard ous Situations, Galancing At This Poit Of Great Importance Rayeq Keeps A Wide Range Of It For Our Very Valuable Clients.



**Voice Evacuation System**

Wall Mount Speaker



Ceiling Speaker



Pendant Speaker



Cyber Net Terminal Amplifier



**Fire Blankets and Safety Kit**

Being life saving item for fire burn victims rayeq serves you with variety of this necessity to be kept with.





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## CENTRAL BATTERY SYSTEM



The CBS central battery system is state-of-the-art, reliable and easy to Operate central battery system constructed in accordance with the Requirements of VDE 0108 as well as EN 50171 and EN 50172 standards. Due to the possibility of using sub-modules it is dedicated to medium and large buildings and was designed in SMART technology.

The system monitors each output circuit individually and with the use of address modules - each luminaire. The system allows any configuration of mode both of the circuit and the luminaire. Using the driver one can program the mode of the address module without interfering into the luminaire and without any specialized service software.

The SD card slot used in the system allows to perform a backup of the system and to save the periodic

test results, event log and system configuration, in accordance with EN 50172.

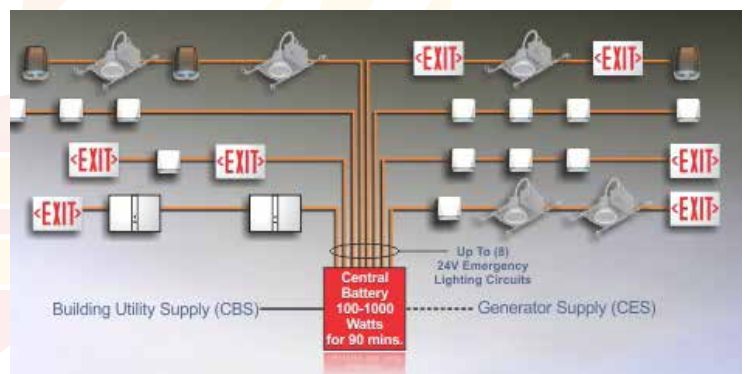
The event log can be printed out of the SD card on any PC without any additional software. Besides, all the settings are stored in non-volatile memory and will not be lost even during the complete power supply and battery failure. The charger module ensures battery charging based on UI characteristics with temperature compensation according to EN 50171. The charger is equipped with internal active PFC module which provides a power factor close to 1. Linear modules have separate protection for AC and DC mode, significantly increasing the safety level while switching on emergency lighting in the building. In DC mode the system works in IT network layout (isolated system).

## CBS System

### The most important parameters:

- LCD display with easy-to-use menu
- Automatic test performing
- Automatic detection and adding luminaires to the system
- Monitoring of each luminaire
- Monitoring of each circuit
- Programming and configuration of the luminaires directly from the central unit
- Communication with luminaires through the power cable
- SMART technology - any mode of operation of the luminaire
- The linear modules are secured for the AC and DC mode separately
- SD card slot and card itself allow to save the periodic test results, event log and system configuration
- Possibility to record the back-up of the system on the SD card
- Night mode operation
- Possibility to control luminaires and functions of the system through the

- 24V and 230V internal and external connectors
- Possibility to monitor power in the distribution boards and in the separate lighting circuits
- USB slot
- RJ45 connector for direct communication with any computer via Ethernet
- Preview of the system via any web browser
- Management and visualization of the system by using dedicated software SMART VISIO
- Supply of the fixtures of total capacity 1500W for time 1 h or 500W for 3h SUPPLY



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## FIRE EXTINGUISHER

Variety Of Fire Extinguishers Their Refilling And Maintenance is done under strict safety measures at out Workshop under the supervision of High Professionals.



## Fire Hose and Extinguisher Cabinets - Nozzles & Gauges





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## PRODUCTS



Rigid Coupling



Flexible Coupling



Reducing Coupling



Mechanical Tee (threaded)



Mechanical Tee (Grooved)



Mechanical Cross



U-Bolted Mechanical Tee



Reducer (grooved)



45° Elbow



90° Elbow



Cross



Tee



Reducing Tee (grooved)



Flange adapter



Mechanical Tee (threaded)  
Galvanized



Reducer (grooved)  
Galvanized



Coupling



Coupling



Coupling



Angle Bolt Pad Coupling

Finish: 1. Epoxy, 2. Painted, 3. Galvanized

Color: 1. Red, 2. Orange, 3. Blue, 4. According to requirements

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### GATE VALVES NRS TYPE



Gate Valves Flanged Ends



Gate Valve Flanged - Grooved Ends



Gate Valve Grooved - Grooved Ends



### Resilient Seated Gate Valves.

Gate Valves Flanged Ends



Gate Valve Flanged Grooved Ends



Gate Valve Grooved Grooved Ends



\*Resilient Seated Gate Valves.

Pattern	Model	Size, in.	End Configuration	Rated Pressure, psig
*NRS	NVV388FF-300 NVV388GG-300 NVV388FG-300	2.5, 3, 4, 5, 6, 8, 10, 12	F by F G by G F by G	300
O,S&Y	NVV399FF-300 NVV399GG-300 NVV399FG-300	2, 2.5, 3, 4, 5, 6, 8, 10, 12	F by F G by G F by G	300
*NRS	NVV388FF-250 NVV388GG-250 NVV388FG-250	2.5, 3, 4, 5, 6, 8, 10, 12	F by F G by G F by G	250
O,S&Y	NVV399FF-250 NVV399GG-250 NVV399FG-250	2, 2.5, 3, 4, 5, 6, 8, 10, 12	F by F G by G F by G	250
*NRS	NVV388FF-200 NVV388GG-200 NVV388FG-200	2.5, 3, 4, 5, 6, 8, 10, 12	F by F G by G F by G	200
O,S&Y	NVV399FF-200 NVV399GG-200 NVV399FG-200	2, 2.5, 3, 4, 5, 6, 8, 10, 12	F by F G by G F by G	200

\*NRS valve provided with a Post Indicator Flange



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### HOSE REEL SYSTEM

#### FIRE FIGHTING SYSTEM

Fire is a phenomenon with which every one is familiar. We use it daily to heat our homes and cook out meals. When harnessed, the power and energy from fire serves us well; however, when it is uncontrolled, a fire can quickly consume and destroy whatever lies in its path.

Life is invaluable and fire is Merciless. Safety escorts our country and our national economy on their safe way to development. Fire shares good and Bad luck with human life, we are committed to guarantee peoples safety of life and assets every moment.



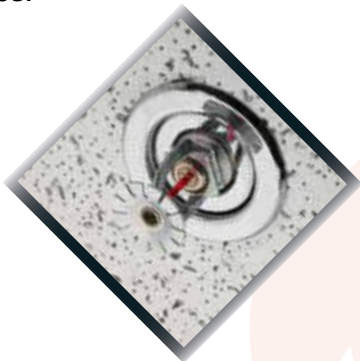
#### Fixed Gas Fire Extinguishing Systems

Fixed gas fire-extinguishing systems typically suppress fires by reducing the available oxygen in the atmosphere to a point where combustion can no longer take place or by interrupting the chemical reaction necessary for the progression of the fire.



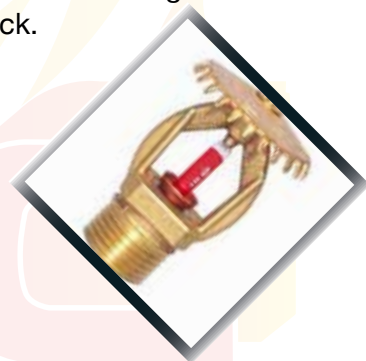
#### Water Spray System

Like other types of fixed water extinguishing systems, the water spray system consists of pump(s), a fixed piping system and a distributed array of nozzles. However, the one distinctive characteristic of a water spray system is that it utilizes "open" type nozzles.



#### Extinguishing System

Firefighting foam is used to form a blanket on the surface of flaming liquids. The blanket prevents flammable vapor from leaving the surface and prevents oxygen from reaching the fuel. A fire cannot exist when the fuel and oxygen are separated, and therefore, a properly placed foam blanket will smother the fire. In addition, the water in the foam also has a cooling effect, which gives foam the ability to cool surrounding structure to help prevent flash back.



#### WATER SPRINKLERS

Serving you with multiple range of esfr, fusible alloy, concealed glass bulb, ordinary glass bulb, high-speed water for medium speed water fog, drenched head and ul glass bulb sprinklers, besides this we have multiple variety of water flow indicators, pressure switches, hydrolic alarm bells double clip safety single clip butterfly valve, automatic exhaust valve, fire solenoid valve, end water test device, sprinkler decorative tray and sprinklers protective frames.



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### HIGH PRESSURE DRY BARREL HYDRANT



**Model Base - Valve Size, in. Hose Outlet (No. of Outlets), in Pumper Outlet (No. of Outlets), in. Rated Pressure psig**

EFP 701 6	(2)2-1/2	(1)4-1/2	250
EFP702 6	(2)2-1/2	(1)4-1/2	250

Model EFP701 and EFP702 hydrant may be supplied with a 2 1/2 in flanged monitor elbow



Nozzle section, Barrels,  
Stand Pipe Flanges  
Breakable Flange, Base  
Main Valve Flange  
Weather shield Operating Nut

Ductile Iron

Ductile Iron core, fully  
Encapsulated in  
EPDM Rubber

Main Valve Disc

Cast Iron  
Above ground,  
fusion -  
bonded, Epoxy  
inside and out

Caps

Coating

Nozzles, Valve Seat Ring Drain  
Ring, Drain Bushing And Plug,  
Stem Nut, Stem Bushing, Thrust  
Nut

Bronze

Zinc Plated Steel

Stop Nut, Cap Chain  
Bolt, Nut

Epoxy Coated Steel

Stainless Steel 304

Upper and Lower  
Stem Rod

Nitrile Rubber

Stem Rod Coupling  
Standpipe Lock Ring  
Nozzle Lock Screw  
Lock Plate, Lock Plate Screw  
Spider Bolt

Buna "N11

Barrel Gaskets, Cap Gaskets

O Rings

#### Test

Hydraulic Test : 16 bar seat test  
32 bar shell test

#### Options

Bury depths from 1220 mm optionally  
1370 mm. Other lengths available on request.

#### Nozzle outlets configuration

**Standard** 2x2.5 Hose Nozzies  
NST- Thread  
1x4 or 4.5" Pumper Nozzle  
NST- Thread

#### Options

Threads to BS 336  
Female or Male  
Instantaneous Couplings  
to BS 336 incl/excl  
2.5" Globe Valve /Gate Valve



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**FIRE PUMPS**



- Centrifugal Split Case Fire Pump
- Flow from 50 GPM to 3500 GPM
- Pressure from 82 to 261 PSI
- For Commercial and Industrial use
- Available with Diesel Engine and Electric Driven Motor
- Jockey Pump
- Control Panels

Rated Capacity (gpm) Pressure (psi)	Size (in.)	Model Dsg	Rated Net Pressure Range (psi)	Approx Speed (rpm)	MaxWorking
400	3x4	NF80-380H	200 - 261	2900	290
500	4x5	NF100-380H	198 - 225	2900	290
750	4x5	NF100-380H	193 - 223	2900	290
1000	5x6	NF125-380H	192 - 226	2900	290
1000	5x8	NF125-480	82 -110	1450	290
1250	6x8	NF150-560	121 -146	1450	290
1500	6x8	NF150-560	119- 144	1450	290
2000	8 x 10	NF200-480	86 -110	1450	290
2500	8 x 12	NF-200-540	113 - 134	1450	290
3500	10 x 14	NF250-500	100 - 102	1450	230



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## EUROTECH / EUROSAFE ENGINEERED FM 200 SUPPRESSION SYSTEM - 360 PSI



### What is FM – 200

FM 200 is a Colourless, Odourless Gas containing only Carbon, Hydrogen and Fluorine, thereby lacking the Ozone, depleting presence of Bromine Atoms. Highly penetrative and achieving an homogeneous dispersion in the hazard zone. It acts on fires largely by physical means, lowering the temperature of the flame and fuel to a point at which combustion reactions cannot be sustained. There is no significant obscuration on discharge and this non-corrosive and electrically non-conductive Agent causes no damage to Sensitive Equipment with no post discharge clean-up required.



### Benefits

- Fast and effective against a wide range of Class A, B and Electrical Fires
- Safe for occupied areas
- Non-corrosive and electrically non-conductive
- No-post discharge residue, no clean-up required
- Environmentally acceptable
- 25 Bar System (360 PSI)
- Engineered and Pre-Engineered Systems available
- Range of System release options
- Computer Design Maximizes effectiveness of System

### Description

FM-200 is a Clean Agent Fire Suppression System that protects high value assets from fire and the effects of fire-fighting, allowing normal operations to be resumed quickly with no collateral damage and clean-up costs. Eurotech | Eurosafe Fire Protection is at the forefront of new technologies in fire safety, offering a range of state-of-the art Fire Extinguishing Systems.

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## FOAM SYSTEM

### Description

Fire suppression foam is comprised of three parts: foam concentrate, water, and air. When mixed correctly, these parts form a homogeneous foam blanket that extinguishes flames by the combined mechanisms of cooling, separating the flame source from the product surface, suppressing vapors, and smothering. This makes foam suppression systems an effective option for protecting flammable and combustible liquids.

### Protection

Aircraft hangars  
Petrochemical  
Oil and Gas  
flammable liquid storage  
Tank farms  
Loading facilities  
Warehouses

[View the Industry Fire Risk Solutions Chart](#)



## Pre-action valve sprinkler systems

These systems are specifically designed for the protection of high value “Business Critical” areas where sensitive electrical equipment or goods are stored to provide prior warning of system discharge or prevent system discharge caused by accidental damage to a sprinkler or system pipework.

A Pre-action sprinkler system comprises a standard Deluge valve sprinkler system and an independent system of heat or smoke detectors installed in the same areas as the sprinklers.

The Deluge valve is a diaphragm style valve that depends upon air in the diaphragm chamber to hold the diaphragm closed against the water supply. Any accidental damage to a sprinkler or a detector head in a “non-fire” situation will NOT bring the control valve into action but will cause both visual and audible alarms to be raised to alert the building’s fire safety officer to the situation. In the event of a fire, when two or more detector heads operate, they send a signal to the main fire control panel. On receipt of this signal, the fire control panel operates the solenoid release valve, releasing the pressure off the diaphragm unit to open the Deluge valve and discharge water into the system in readiness for a sprinkler head to open when it reaches its designated operating temperature.

This process provides the building’s fire safety officer with prior warning of the impending event so that the Company’s established fire control plan can be immediately initiated to minimize the impact of the fire threat.

The size of the Deluge valve, its flow rate, the system water supply pressure and type of detection system are all determined by the size and type of fire risk involved.





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## CLEAN AGENT

### High Performance. Low Impact. Safe For The Planet. Safe For You.

The term "Clean Agent" is defined as an Electrically nonconductive, volatile, or gaseous fire extinguishant that does not leave a residue upon evaporation.

- NFPA 2001

Using water to extinguish a fire is not always the ideal choice...

When you are trying to protect critical assets such as IT systems, data storage rooms and manufacturing's equipment's, or irreplaceable items like customer/client records, intellectual property, art, antiques and artifacts – using water will just compound the damage. Using a Clean Agent fire suppression system in this case is the best solution.

Novec 1230, FM-200 and Argonite are the preferred Clean Agent fire suppression systems of Approved Protection Systems.

There are 3 ways clean agents can extinguish a fire:

- Reduction of heat (FM-200, Novec 1230)
- Reduction or isolation of oxygen (Argonite)
- Inhibiting the chain reaction of the above components (FM-200)

### Clean Agent Benefits

#### Fast

Clean Agent systems reach extinguishing levels in 10seconds or less!

#### Effective

Clean Agents are designed to control and extinguish a fire in its incipient stage – before it has a chance to spread. Clean Agents are electrically non-conductive and non-corrosive, and there will be no damage to electronics and delicate mechanical devices.

#### Safe

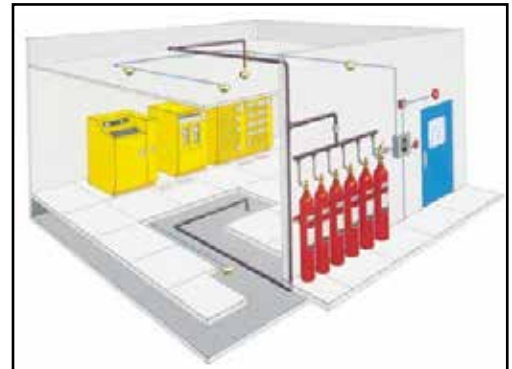
Clean Agents are designed to provides a wide margin of human safety – they are safe to use where people are present.

#### Clean

Clean Agents rapidly vaporizes to gas during discharge and evaporates cleanly, leaving no residue behind, which means no costly cleanup.

#### Earth Friendly

Clean Agents are non ozone depleting and have a short atmospheric lifetime.



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## KITCHEN FIRE SUPPRESSION SYSTEM

The NKS Fire Suppression System is an automatic pre-engineered system; designed to protect the kitchen area including the duct, fume hood and plenum's, as well as all cooking appliances which use gas or electricity such as deep fat fryers, woks, griddles, salamanders chain broilers and more.

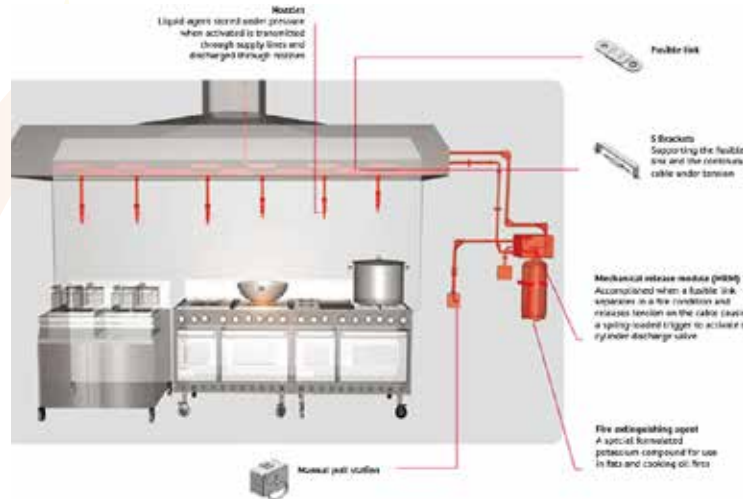
This system caters to the needs of both small and large kitchens such as those in hotels, restaurants, hospitals and public institutions safeguarding guests, staff and property.

This system caters to the needs of both small and large kitchens such as those in hotels, restaurants, hospitals and public institutions safeguarding guests, staff and property.

1. Nozzles are arranged to offer maximum coverage of all installations.
2. Heat detectors installed within the plenum and will be triggered only during fire.
3. The system distributes the extinguishing agents over all protected areas and interrupts the supply of gas or electricity.

### Features and Benefits

- Fast fire detection
- Automatic and manual operation
- Dual suppression action for appliances and energy supply (Gas and EC)
- Maximum extinguishing coverage
- Cost effective
- Easy kitchen clean up following discharge
- Stainless steel friendly fire suppressant agent
- Water-based environmentally friendly agents
- Fast and easy system recharge after discharge



### Components

#### Fusible link

The fusible links are installed within the plenum and will be triggered only during fire.

#### Detector bracket

Supporting the fusible link and the continuous cable under tension.

#### Mechanical release module (MRM)

Accomplished when a fusible link separates in a fire condition and releases tension on the cable causing a spring-loaded trigger to activate the cylinder discharge valve.

#### Nozzles

Liquid agent stored under pressure when activated is transmitted through supply lines and discharged through nozzles. The Nozzles are arranged to offer maximum coverage of all installations.

#### Manual Pull Station

Each Lehavot WCK system is equipped with at least one manual pull station providing a means of activating the system manually if required.

#### Extinguishing agent

The Lehavot extinguishing agent is based on a potassium compound that extinguishes cooking oil fires by means of cooling and saponification.



# فاير فايتير كو FIRE FIGHTER CO Security And Safety Equipment L.L.C Fire Protection Engineers

## CARBON DIOXIDE CO2 INDUSTRIAL FIRE SUPPRESSION SYSTEMS



### C02 is versatile

The C02 is stored as liquid, under pressure when a system is activated, the liquid C02 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.

### C02 is fast and efficient

The Eurotech / Eurosafe Fire Protection High Pressure C02 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.

### C02 is low cost

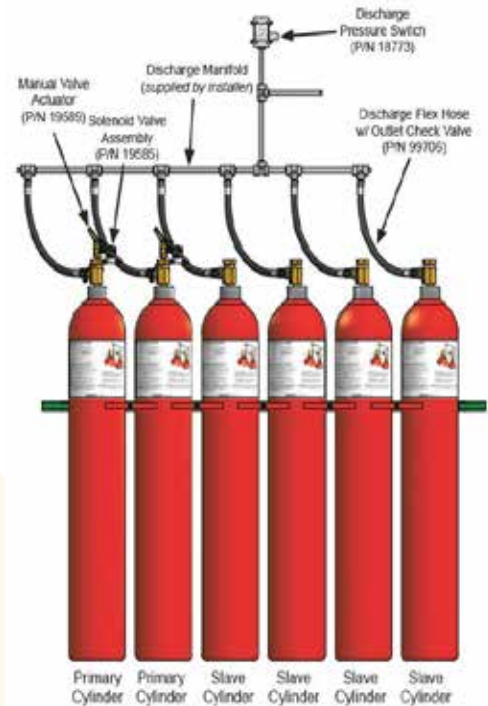
Carbon dioxide is a standard commercial product with many other uses and it is readily available throughout the world. Because of its universal use it can be obtained inexpensively and this is an important consideration when frequent recharging of storage containers is necessary as in local application 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 I Eurosafe Fire Protection control panels.

### System Design

Details of both total flooding and local application systems are contained in the Eurotech / Eurosafe Fire Protection C02 Design manual.



Typical Primary and Slave Cylinder Arrangement

### Typical applications

- Printing presses, flow solder machines
- Paint spray booths
- EDP / Computer rooms and floor voids
- Commercial kitchens
- Transformers
- Generators

C02 is not the agent of choice for manned areas. Please contact Eurotech / Eurosafe-fire Protection Applications Department for more information

“Recommended for unoccupied areas”

# فاير فايتير كو FIRE FIGHTER CO Security And Safety Equipment L.L.C Fire Protection Engineers



## CLEAN AGENT (INERT GAS) GASEOUS FIRE SUPPRESSION SYSTEMS OPERATION AT 200/300 BAR APPROVED BY LPCB



### INERTECH 01(IG-01) Fire Suppression Systems

IG-01 (Argon) extinguishing systems are based on the principle of reducing the oxygen concentration inside the protected hazard. Argon quickly and uniformly distribute within the enclosure, achieving design concentration in 60 seconds / 120 seconds.

### INERTECH 55 (IG-55) Fire Suppression Systems:

IG - 55 is an inert gas blend consisting of a 50 : 50 mixture of two gases Argon & Nitrogen IG - 55 discharge results in a gas mixture with a density similar to that of air.

### INERTECH 100 (IG-100) FIRE Suppression System:

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 high pressure cylinders in the form of compressed gas. Thus, space required for such cylinder storage depends on pressure and capacity.

### 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.

### sky is the limit for Inert Gas Suppression Systems

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 designed to extinguish most fires within 60 seconds by reducing the oxygen levels within the protected enclosure to approx 12.5% - a level below which combustion cannot be sustained - eliminating fire quickly and effectively.

Inert gas systems are ideally suited to the protection of fixed equipment and plant. They are particularly applicable for high value risks where fires can have devastating consequences way beyond the cost of damage and lost production



(INERTECH BRAND)

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

Fast acting and effective  
against nearly all fire haz-  
ards.

No post - fire residues  
or damage to protected  
equipment.

Electrically non - conduc-  
tive, non - corrosive and  
safe for equipment.

Safe for use in occupied  
areas.

Minimum downtime and  
business disruption after  
a fire.



# فاير فايتركو FIRE FIGHTER CO Security And Safety Equipment L.L.C Fire Protection Engineers

## LPG

### What is LPG

Liquefied petroleum gas (LPG) is a different chemical compound to natural gas even though they are both hydrocarbons. LPG consists of propane and/or butane. Propane (C<sub>3</sub>H<sub>8</sub>) contains three carbon atoms and eight hydrogen atoms. Butane (C<sub>4</sub>H<sub>10</sub>) contains four carbon atoms and ten hydrogen atoms. By comparison methane is a much lighter gas than propane or butane.

Although gaseous under normal atmospheric conditions, LPG (propane) is stored under modest pressures in liquid form. In this way LPG can be transported and stored in a concentrated form to provide a source of high-energy fuel.

### Liquefied Petroleum Gas

Liquefied petroleum gas, also called LPG, GPL, LP Gas, liquid petroleum gas or simply propane or butane, is a flammable mixture of hydrocarbon gases used as a fuel in heating appliances and vehicles. It is increasingly used as an aerosol propellant and a refrigerant, replacing chlorofluorocarbons in an effort to reduce damage to the ozone layer.



- LPG's commercial uses are far and varied. Let us start with some of the simpler ones. It is a great fuel which can be used in metal cutting since it provides cleaner cuts due to stable high temperature.
- When it comes to industrial processing, it is used for drying processes as well as curing tea leaves and fiber glass. It is a great component to use in drying processes which need a controlled environment as speed.



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**LPG**



a) Food Processing- Mainly used in bakeries, since LPG does not pose a risk of contamination, it is used in the making of chips and biscuits.

b) It is also used in the metallurgical industry where the heat treatments are preferably conducted in a controlled atmosphere. It is flexible in use and also offers comparably lower maintenance costs.

c) When it comes to the textile industry, it requires many energy consuming processes and LPG is always preferred to be used for such processes.



d) Since LPG is lead free and soot free, it is also considered good enough to be used in thermal engine trucks and for fork lifting jobs.

e) LPG is also used in the processes related to chemical engineering.

f) And best of All, LPG is the suitable petroleum product used in cooking our daily food which is used in every household now a days. LPG is highly versatile and allows for gas cooking and flame effect fires, preferred by most new home buyers.



# فاير فايتركو FIRE FIGHTER CO Security And Safety Equipment L.L.C Fire Protection Engineers

## LPG

### What are the Benefits of LPG Central Heating?

Not many people, however, have heard of LPG. So why fork out for LPG central heating installation costs and LPG central heating running costs and take the time to switch from your current supplier?

Well, LPG heating has often proven to be more reliable than standard central heating, allowing you to budget more accurately for future utility bills and keep you home warm for as long as you like.

It also produces the lowest carbon emissions amongst popular fuel choices during manufacture and processing; 19% less than oil, 30% less than coal and 50% less than electricity- so it's better for the environment in the long run.

LPG gas heating also burns cleanly, meaning that there is little risk of ground or water pollution, either during heating or in storage.

It acts as an ideal central heating back-up plan in rural areas of the UK, where local gas mains don't always provide adequate services in isolated

LPG central heating boilers should also be fitted by Gas Safe registered installers - so you don't have to worry about any dodgy cowboy builders trying to fix you up with a sub-standard system.

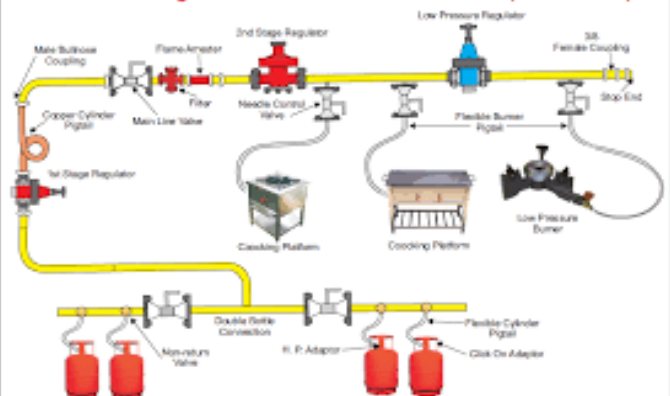


- Fire Fighter Co undertakes feasibility studies, engineering, material procurement and the operation and maintenance of Central LPG Systems for any establishment. The systems are built to meet local requirements by using North American and European standards and designed to be convertible to natural gas if supply becomes available in the future.

- Our Team of Professional have unparalleled experience on Central LPG System providing our clients with comprehensive consulting capabilities to collaborate, lead and effect solutions that facilitate a safe and accessible Central LPG System.

- The Professional and Skilled personnel of Fire Fighter Co are at your service to provide you the Best installations for various Central LPG System needs. We are authorized by the relevant authorities for the install of Central LPG system . The Committed Architects and Engineers and Staff are at your service to provide you the safest LPG system for your own convenience.

Schematic Diagram To Show an Ideal Installation (commercial)



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**SOME OF THE NAMES OF CLIENTS -  
THAT THE COMPANY HAS REPEATEDLY AND WORK**

**GENERAL CONTRACTING**

Ginco General Contracting

Green Scapes Landscapes & maintenance Con

Ost Consterction LIC

Aroma General Contracting

Frayland Construction

Devolopment Contracting

Asfani Technical

Daud & partner

Kabri International Cont.

Technical Artitacturer Construction

Future House Construction

Altal Engineering

Lootah Group

Better Gardens

ArkitekNIK International Consulting Engineers

Cast Aluminum Factory



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**SOME OF THE NAMES OF CLIENTS -  
THAT THE COMPANY HAS REPEATEDLY AND WORK**

**PROPERTIES & REAL ESTATE**

Inaya Facilities Management

Alserkal Real State

Golden Wood Real state

**MAINTENANCE (AMC)**

Al Shhoroq Mardif City Center

Old Town Residence A & B

Burj View Residence Down Town

Al Shoroq Mardif Villas

Old Town Island

**RESTAURANT, CATERING & HOSPITALITY**

FiestaPinoy Restaurant

Alsafady Restaurant

Al-Yaman Mandy Restaurant

Marahab Restaurant

Al Madina Tasty Restaurant

The Snak House Restaurant

Manila Restaurant

Kababi Resstaurant

Kalamar Restaurant

Global Hospitality

Action Hospitality





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