



SAFE 'N' SECURE FIRE SYSTEMS

(An Iso 9001 : 2015 Certified Company)



SIEMENS

Solution
Partner

Building
Technologies

- BUILDING MANAGEMENT SYSTEM
- FIRE SUPPRESSION SYSTEM
- ALARM & FIRE DETECTION SYSTEM
- FIRE FIGHTING SYSTEM-HYDRANT & SPRINKLER
- HIGH & MEDIUM VELOCITY WATER SPRAY
- CCTV / ACCESS / PA / RODENT / WATER LEAK

ABOUT US :

SAFE 'N' SECURE FIRE SYSTEMS (AN ISO 9001: 2015 CERTIFIED COMPANY & CRISIL RATED FOR HIGH PERFORMANCE)

Safe 'N' Secure Fire Systems has gradually emerged as a **SYSTEMS INTEGRATORS** in the field of "Life safety, Electronic surveillance & Security and Asset protection" over a period of time. The company was established in the year 2003 by one of the Directors as a proprietor firm.

We Specialize in Commissioning & Total Solution to Server Room, Data Center, NOC Room, Network & Telecommunication Rooms for Banks, Corporates & Software Sectors, Educational institutes, Research & Development centers (Government & Private sector), Hotels, Hospitals etc.

Our Products

BMS	FIRE SUPPRESSION	ALARM & FIRE DETECTION	FIRE FIGHTING
BUILDING MANAGEMENT SYSTEM	• FM 200	• FIRE DETECTION - CONVENTIONAL / ADDRESSABLE / VESDA	• HYDRANT & SPRINKLER
	• NOVEC 1230	• GAS DETECTION	• FOAM FLOODING SYSTEM
	• ARGONITE / INERGEN	• CCTV & ACCESS CONTROL	• HIGH / MEDIUM VELOCITY WATER SPRAY
	• Co ₂ FLOODING	• PUBLIC ADDRESSABLE	• ALARM VALVE
	• HIGH PRES. WATER MIST	• WATER LEAK / RODENT REPELLENT	• FIRE EXTINGUISHERS / SIGNAGE

OUR SUCCESSFUL PROJECTS INSTALLATION



Floreance Perfumes Pvt Ltd - Pump Room Hydrant



Positive Packaging - Foam Flooding, Khopoli



Visteon - Novec 1230



Imsofer - Argonite System, Baramati



Bharat Forge - Deluge Valve, Baramati



Avaya - Novec Vesda, Hyderabad



D. B. Power Pvt. Ltd. - Co₂ Flooding



Kalyani Carpenter - Co₂ Flooding

OUR CERTIFICATIONS



OUR CERTIFICATIONS

EXPERTISE



BUILDING MANAGEMENT SYSTEM

A Building Management System (BMS) or a (more recent terminology) Building Automation System (BAS) is a computer-based control system installed in buildings that controls and monitors the building's mechanical and electrical equipment such as ventilation, lighting, power systems, fire systems, and security systems. A BMS consists of software and hardware; the software program, usually configured in a hierarchical manner, can be proprietary, using such protocols as C-bus, Profibus, and so on.

Features

- Modern Architecture
- Advanced Client Server Design
- Multiple Site Management
- Optimum System Capacity
- Card Multi-Swipe functionality per cardholder
- High Security Mode
- Integrated Biometric Enrollment
- Personalized disability privileges
- Anti- Pass back

What does it mean?

Positioning statement Desigo CC

Desigo is world leading in all disciplines and functions for efficient, safe and secure buildings and infrastructure.

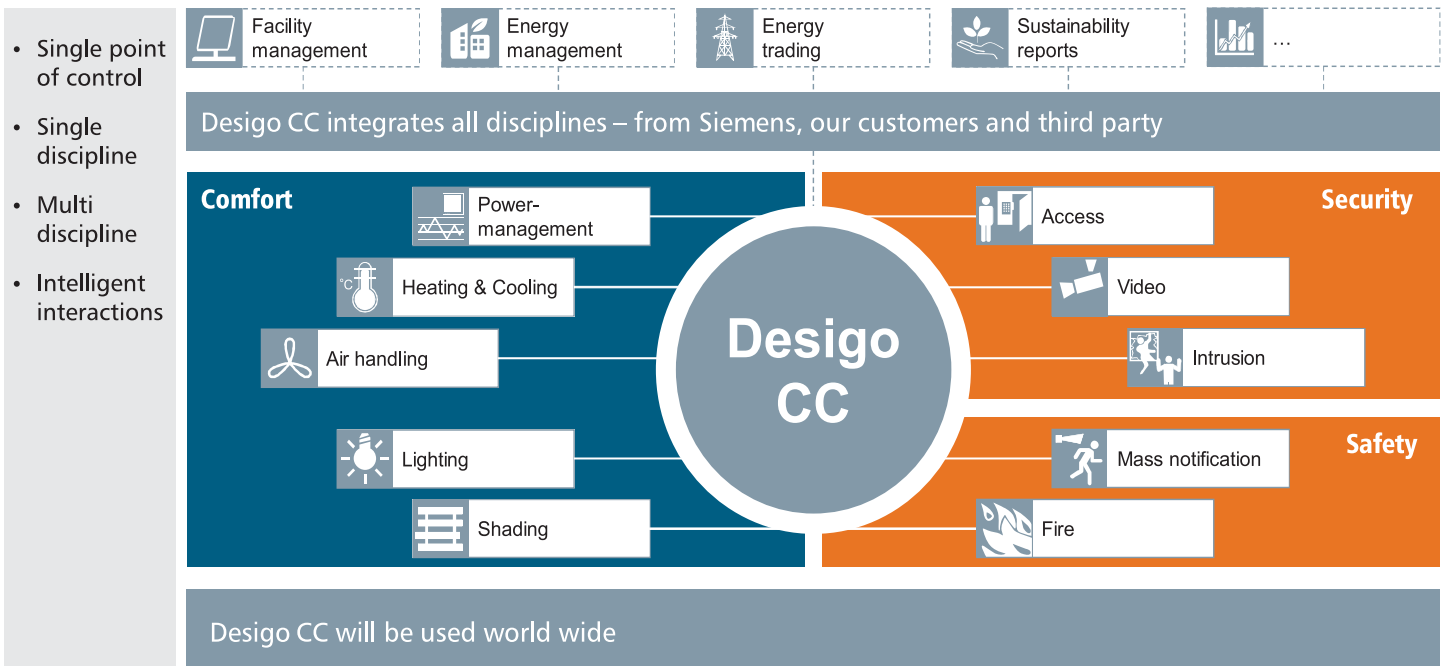
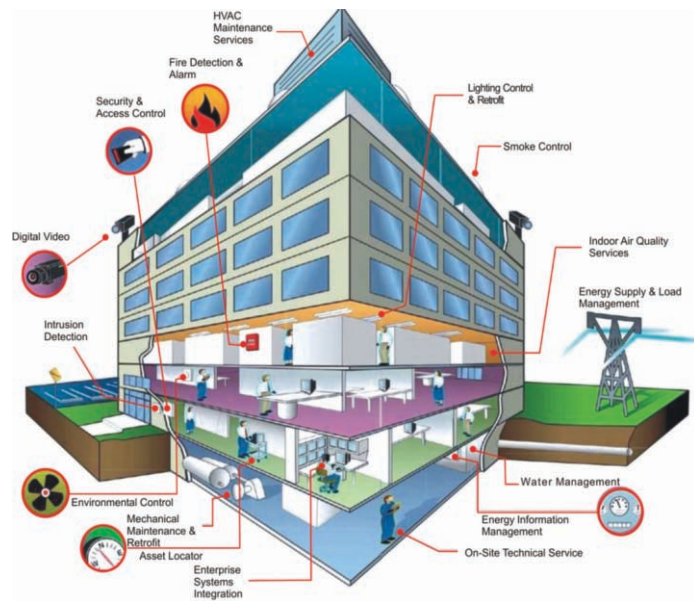
All building functions can be integrated in the world's most advanced management station : **Desigo CC**.

Desigo CC is based on open standards and is the ideal platform for both Apogee and Desigo and to integrate systems from different vendors.

It allows the maximum of flexibility and is easy to engineer and operate.

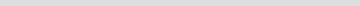
What is Desigo CC?

BT next generation management station



Design CC strengths		
Scalable / Modular	Flexible	✓
	Open	✓
	Integrated	✓
	Efficient	✓
	Easy to use	✓

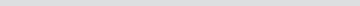




Designo CC key Messages

Key Messages / Customer Benefits

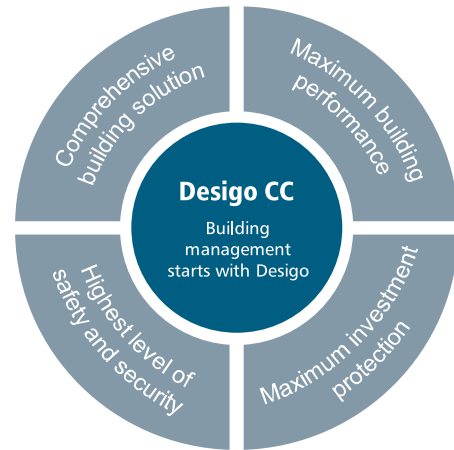




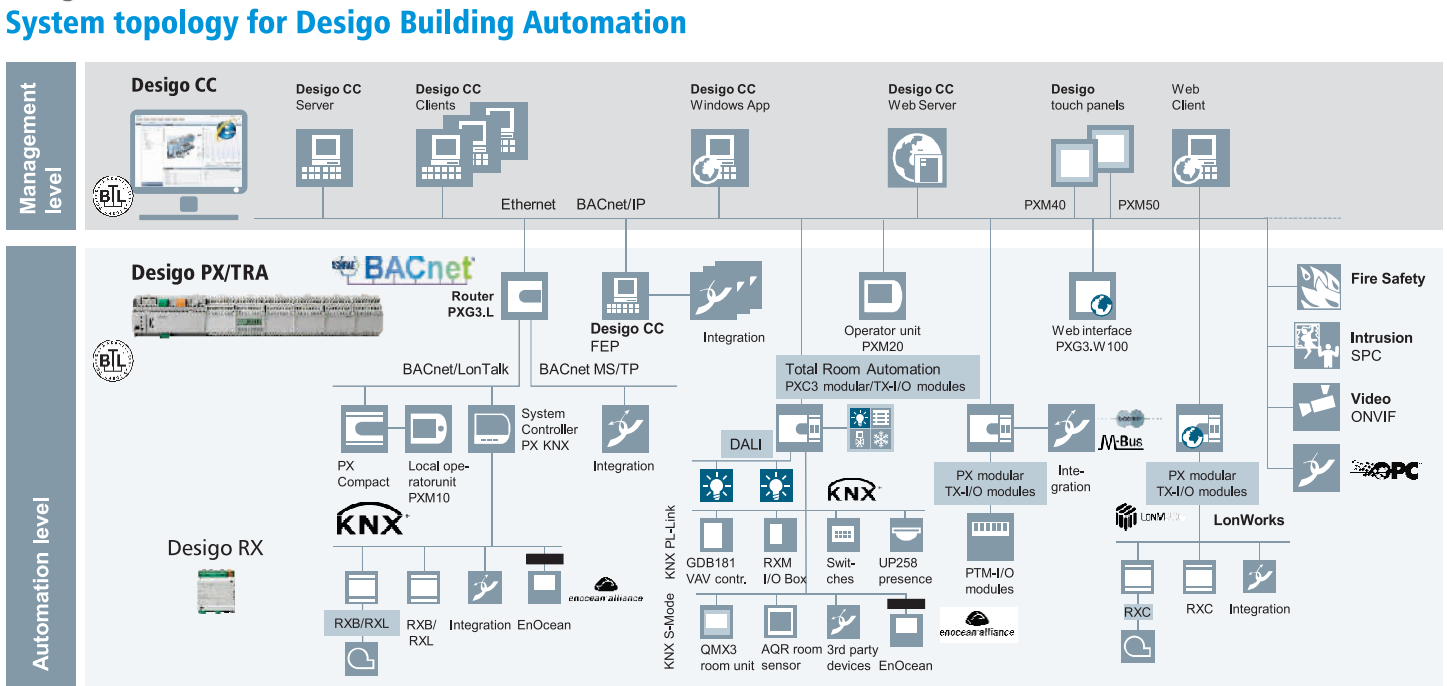
Designo CC key Messages

Key Messages / Customer Benefits

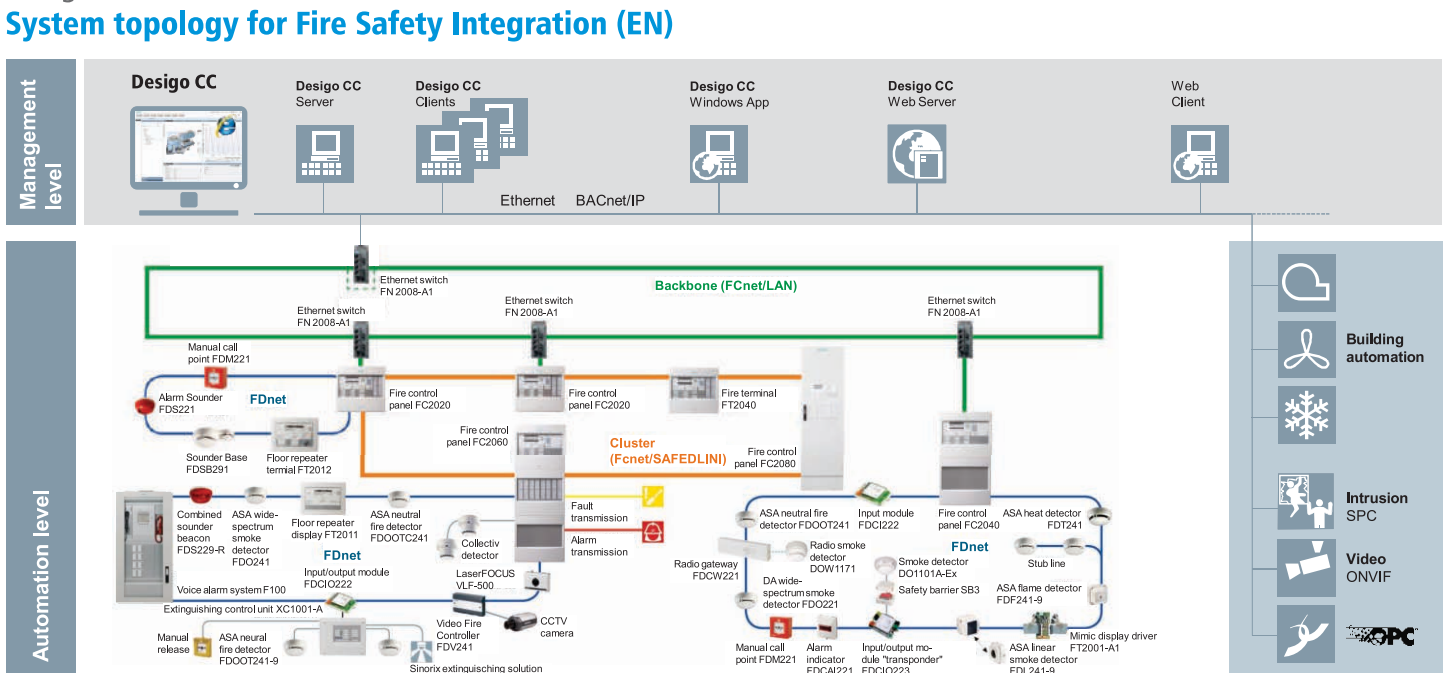




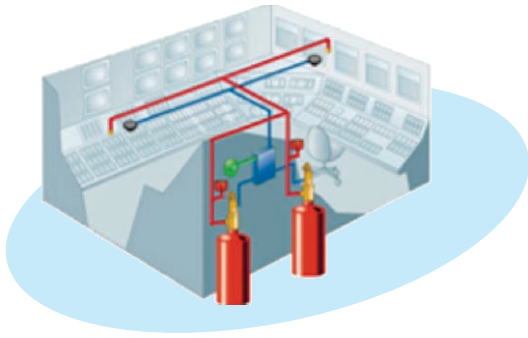
System topology for Design Building Automation



System topology for Fire Safety Integration (EN)



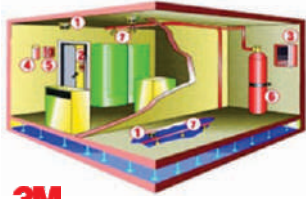
FIRE SUPPRESSION SYSTEM



This System is intended to prevent or extinguish fires automatically within seconds, where there is electrical or sensitive electronic equipment serving a critical operation, the loss of which would not only be the value of the equipment but also the cost of business interruption such as caused by damage to Server Room, Data storage room.

Safe 'N' Secure specializes in the design, installation, testing, commissioning & service of fixed fire fighting systems.

NOVEC 1230



3M

Because its use concentration is much lower than its No Observable Adverse Effects Level (NOAEL), Novec 1230 fluid offers the widest margin of safety of any viable halon replacement available on the market today.

3M™ Novec™ 1230 Fire Protection Fluid Safety Margin				
Agent	Novec 1230	Halon 1301	HFC-125	HFC-227ea
Use Concentration	4-6%	5%	8.7-12.1%	7.5-8.7%
NOAEL3	10%4	5%	7.5%	9%
Safety Margin	67-150%	Nil	Nil	3-20%

One fire protection fluid. So many reasons to use it.

Here is the new standard for halon replacement. Novec 1230 fluid offers a long-term, sustainable technology that has the greatest margin of safety, the lowest GWP for halocarbon alternatives, and zero ozone depletion potential.

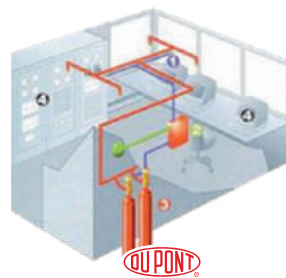
What is Novec 1230 fluid ?

Novec 1230 fluid is a fluoroketone - a proprietary 3M technology that offers a number of important advantages over conventional halon replacements.

How does it work ?

Extinguishing via its cooling effect, Novec 1230 fluid works as a gas, yet it is a liquid at room temperature. Because it is not stored or shipped from the factory in pressurized cylinders, Novec 1230 fluid is easy to handle and charge. Novec 1230 fluid systems allow for more efficient use of space, requiring about the same number of cylinders as conventional halocarbon agents.

FM 200 CLEAN AGENT SYSTEM



In response to the impending production phase out of Halon fire extinguishants, FM-200 (Heptafluoropropane) is a replacement for Halon 1301 in applications requiring a clean environmentally acceptable fire extinguishing agent, suitable for use in manned areas.

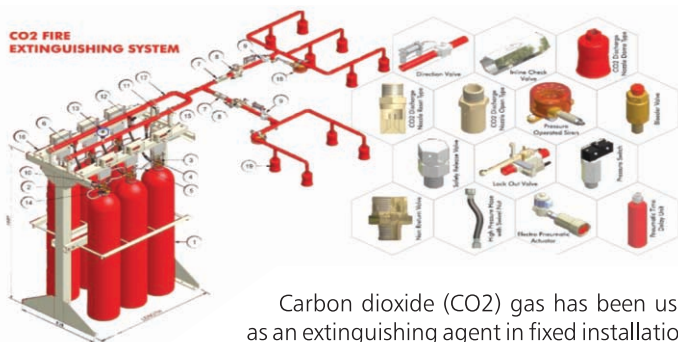
It is a colourless gas at standard conditions, exhibiting a boiling point of

-16.4 Degree Centigrade. Through the use of properly designed equipment, FM-200 will mix well in a protected enclosure to provide a homogenous mixture in air. For fire suppression applications, FM-200 is super pressurized to achieve rapid discharge into the protected environment.

Technical Specification FM-200

Chemical Formula	C3F7H
Ozone Depletion Potential	0
Molecular Weight	170.03
Boiling Point	-16.4 Degree Cent
Critical Temperature	102 Degree Cent
Extinguishing Concentration, Heptane Cup	5.8 %
Burner (% by Volume)	
Vapour Pressure at 21 Degree C	68.8 psia

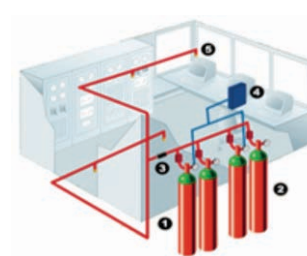
CO2 FLOODING



Carbon dioxide (CO2) gas has been used as an extinguishing agent in fixed installations since the beginning of the twentieth century. NFPA-12 (National Fire Protection Association) Rules and BIS 6382 codes for design of such system are used as standards for CO2 extinguishing systems.

These fire extinguishing installations are usually provided on premises where water and foam cannot be used. CO2 can be stored in high pressure seamless steel cylinders in liquid form with maximum filling ratio of 0.667 kg/liter of cylinder volume.

ARGONITE



Argonite has been developed to meet the demands from the industry for an environmentally friendly media. Argonite is non-toxic, non-corrosive, non-fogging and leaves no residue. Argonite meets the challenge from both the Montreal and Kyoto protocol with no ozone depletion potential or global warming potential.

Argonite is tested and approved by regulatory bodies throughout the world, and is effective against fires in almost all combustible materials and flammable liquids.

Applications - Argonite systems are ideally suited to the protection of fixed equipment and plant.

System Design - In a closed space, almost all fires are extinguished in less than 60 seconds when the oxygen concentration falls below 15%. The Argonite fire extinguishing system.

FOAM FLOODING



The Foam Flooding Systems are similar to Water Mist fire suppression systems but use an expanding foam solution mixed with water to extinguish the fire.

Foam suppression systems are useful for companies which cannot afford the expensive tank and pump system to operate the sprinklers or for when there is a particularly high risk of high flammable liquid which may need cover.

Automatic or manual fire detection can be used to release a foam and water mixture which will expand on release of the agent and give a large fire rating cover.



Applications

Foam systems protect virtually any hazard where flammable liquids are present. These hazards are common to a multitude of industries including Petrochemical, Chemical, Oil and Gas, Aviation, Marine / Offshore, Manufacturing, Utilities, Military, and Transportation.

Applications for a Foam Flooding System include oil Paint Storage, Thinner Storage and chemical storage cylos or tanks and areas which require sprinklers.

DELUGE HIGH & MEDIUM VELOCITY WATER SYSTEMS

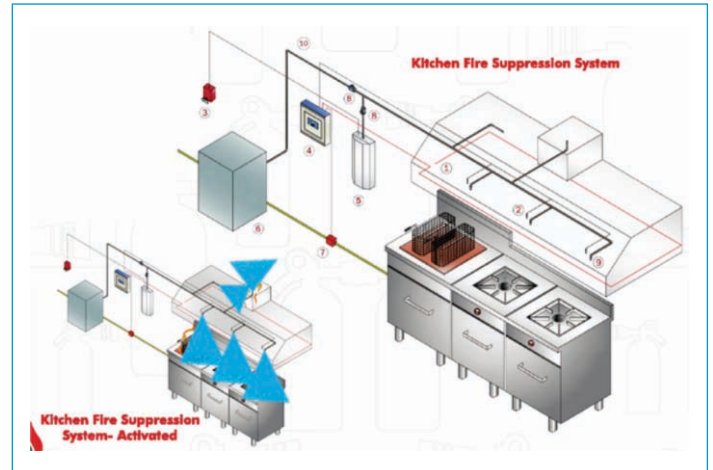


High velocity systems are often used to protect equipment that incorporate heavy or medium oils equipment such as transformers, circuit breakers, diesel engines and fuel oil storage tanks, turbo alternator lube oil systems and oil fired boilers.



Medium velocity sprayers discharge a water spray of finely divided droplets at medium velocity. They are ideal for protecting hazards involving light oils where emul-sification from high velocity sprayers is not possible.

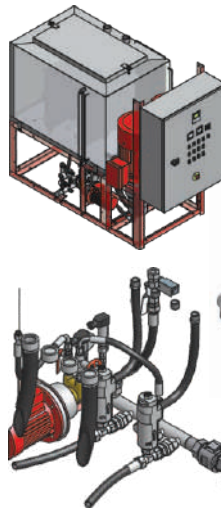
KITCHEN FIRE SUPPRESSION SYSTEM



System Design

- The Kitchen Fire Suppression System is designed to provide fire protection in hoods and ducts of cooking appliances for restaurants.
- The basic system consists of wet agent tank enclosed in a cylinder mounting box, Temperature Sensors, Heat sensing cable, Control panel, Nozzles, piping, & water storage tank (optional) etc.
- Additional equipments such as remote manual pull station, mechanical and electrical gas valves, pressure switches, electrical switches & accessories such as alarms, warning lights, etc. can be integrated with the system.
- As the fire is detected Control Panel activates the wet agent tank and wet agent is discharged extinguishing the fire.
- Single and Multi Wei Agent tank system is available.

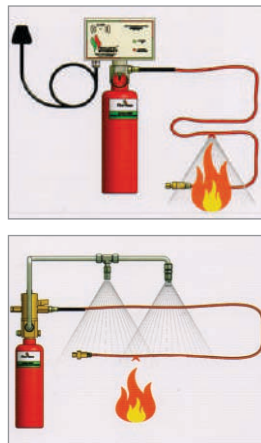
HIGH PRESSURE WATER MIST SYSTEMS



The water mist system is a unique fire fighting system using high pressure pump by dispersing water at high pressure through specially -designed nozzles, water is forced through micro nozzles to create an extremely fine mist less than 50 micron that has a double extinguishing effect.

As wall as cooling the fire like a traditional sprinkler, it simultaneously starves the fire of oxygen like gas system. When the mist comes into contact with flames, it evaporates and ex - pands minimum 1700 times. the dense vapour created displaces the flames & quickly extinguishes the fire.

FIRE TRACE SYSTEM



DIRECT FIRESSENSE SYSTEM

The FIRESSENSE Direct system is ideal for localised applications such as electrical panels, server racks; industrial machines etc. In the Direct system at the time of fire the heat sensitive polymer tubing attached to the Firessense system itself burst at a particular temperature forming a small nozzle & from this nozzle the clean agent extinguishing is released flooding the localised area and instantly douses the fire.

INDIRECT FIRESSENSE SYSTEM

In the Indirect system, heat sensitive polymer cubing acts only as a detection device. In this method at the time of fire the heat sensitive polymer tubing attached to the Firessense system detects the fire and operates the Firessense system valve and the extinguishant is delivered through steel pipes and the entire area is flooded through nozzles attached to the pipes.

FIRE ALARM & DETECTION SYSTEM

ADDRESSABLE



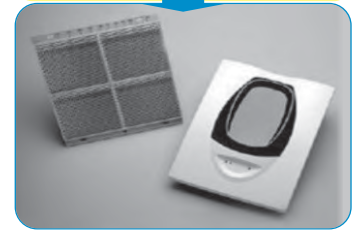
CONVENTIONAL



GAS LEAK DETECTION



BEAM DETECTOR



VESDA SYSTEM

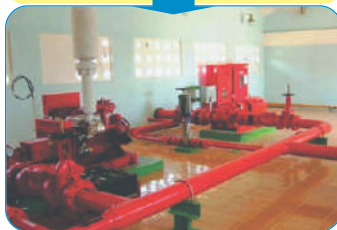


WATER LEAK



FIRE HYDRANT & SPRINKLER SYSTEM

PUMP ROOM



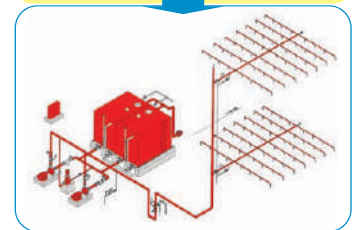
RING HYDRANT



RISER



SPRINKLER SYSTEM



CCTV / ACCESS CONTROL / PUBLIC ADDRESSABLE / RODENT REPELLENT

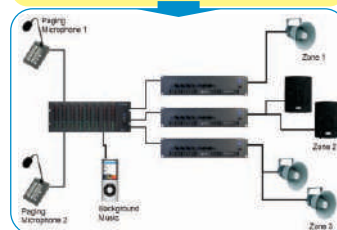
CCTV



ACCESS CONTROL



PUBLIC ADDRESSABLE



RODENT REPELLENT



AVAILABLE BRANDS

SIEMENS

Honeywell

SAMSUNG

**MORLEY IAS
FIRE SYSTEMS**

EST
EDWARDS SYSTEMS TECHNOLOGY

NOTIFIER
FIRE SYSTEMS

ESSER
by Honeywell

xtralis

minimax

UTC Aerospace Systems

Ravel
Reliability at reach

GST
United Technologies

SYRIS

Fire-Lite Alarms
by Honeywell

HIKVISION

**SYSTEM
SENSOR**

CAPTURE

SPECTRA
BY CONCAST SPECTACOR

CP PLUS
enhancing vision

BOSCH
Invented for life

WE UNDERTAKE TURNKEY PROJECTS - DESIGN, EXECUTE & INSTALLATIONS



PROJECTS ACROSS INDIA

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FIRE & BMS

THE SYSTEM INTEGRATORS



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Defence Research & Development Organisation

HP
Hindustan Petroleum Corporation Limited
Refining the Energy

iGATE

Council of Scientific and Industrial Research
National Chemical Laboratory



For more Information, kindly contact us at : **Contact Details**



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