

# Industrial Fire Protection

Saving lives, assets and the environment

Nobel Fire Systems has built on over 30 years of reliable, proven technology to develop fire suppression technologies aimed at special risk environments.

Underpinning the product development programme is a certain conviction that early fire detection and fast effective suppression saves lives, assets and the environment. The Company offers a complete range of services from risk based analysis, consultation and design through to distribution and installation.

As no single suppression medium or application method covers all fire risk scenarios, our range of fire suppression systems covers all class of fires, and systems can be tailored to meet individual needs.

Water Mist Stat-X Gas Dry Chemicals FS-Series

# Nobel Water Mist

A natural solution to a man-made problem

A highly effective alternative to other fire suppression systems, for use across a wide range of industrial applications. Environmentally friendly and with greater heat absorption efficiency



## Nobel Water Mist benefits:

- **Highly Efficient**
- **Fast fire knock down**
- **Compact**
- **Environmentally sound**
- **Reduces radiated heat**
- **Excellent cooling properties**
- **May have smoke scrubbing effect in some cases**

The Nobel Water Mist system provides a highly effective alternative to fire sprinklers and other fire suppression systems and it can be used across a wide range of industrial applications. It has greater heat absorption efficiency, uses less than 10% of the water used by sprinkler systems and is totally environmentally friendly.

Nobel Fire Systems are designed to operate over a wide range of pressures and flows to achieve the required performance, capabilities and functions.

Water has a natural ability to absorb heat and by manipulating pressure and nozzle design the effective surface area of the water droplet can be increased, thereby creating a larger interface with the fire and greater energy absorption efficiency. In the case of fire breaking out, the Nobel Water Mist system as well as its ultra efficient fire

suppression capabilities can act as to scrub the air of smoke, aiding visibility and reducing smoke toxicity. The mist also protects against radiated heat and helps prevent the potential spread of fire to other areas.

A key benefit of the water mist system is the lower volumes of water required in comparison to fire sprinkler systems. This means that pipework diameters and storage capacities consequently reduce. Water can be delivered to the risk area via dedicated pumps or stand alone cylinder batteries.

Nobel Water Mist Systems have world-wide approvals.





# Nobel Gas

More than just fire protection

The focus of fire suppression is rightly one of quickly limiting the amount of damage a fire can cause. Sometimes that's not enough. Critical facilities can require an even higher level of fire protection.

Small fires, even those contained to a single area can cause problems in a critical operation. For instance, most sprinkler systems activate when temperatures reach a pre-set level, often after a fire is established and equipment damage may have begun. Traditional water based agents are electrically conductive and can cause current flow resulting in damage to sensitive electrical equipment. There's also the problem of clean up, drying out equipment and resultant loss making down time.

To help alleviate these problems, Nobel Fire Systems offers a full range of gaseous fire suppression systems to cover all risks. Nobel provides the design, installation and servicing of all the gaseous systems

with the risk to be protected dictating the choices available, taking into consideration the effect on the environment, type of fire risk, physical constraints, building structure and location, practicality and economic considerations.

Where risk volumes are large Nobel can offer a brand new "Hypoxic" system which continually maintains an enclosure environment to reduce oxygen levels below the level that supports combustion, rendering the area a "No Fire" zone. Preventing a fire from developing in the first instance. The environment created is safe for occupied areas and particularly effective in high value, high loss risk applications.

Nobel Gaseous systems offer:

- **Effective protection for premises/equipment that would otherwise sustain damage if exposed to conventional fire protection**
- **No clean up required in the event of fire breaking out**
- **Rapid recovery of business operations**
- **Systems installed to relevant British and European standards**



# Nobel Stat-X

## Condensed Aerosol System

Installation of the Stat-X automatic fire suppression system requires no pipework or nozzles. Units are simply placed directly on or in the risk area being protected.

Stat-X units are sized for volume protection and are extremely compact, intensively efficient and cost effective to install.

Space and weight requirements are minimal making Stat-X the only viable option for many industrial applications. On an agent weight basis, Stat-X aerosol is ten times more effective than gaseous agent alternatives. Units are environmentally friendly with zero ozone depletion and zero global warming potential.

In the event of a fire incident, suppression is rapidly achieved through interference between the ultra-fine aerosol particulate and the flame's free radicals, immediately terminating propagation of the fire.

A key benefit of the Stat-X system is the fact that the units are virtually maintenance free and have a proven shelf and operating life of 10 years, making the system a very cost-effective fire suppression solution. Stat-X is suitable for Class A (surface), B and C fires

and electrical risks up to 40KVA. Available in five pre-engineered sizes for operation in temperatures in the range -50° to +65°C. The Stat-X system can be used singly or in multiples dependant on the protected area volume.

It has ultra fast fire knock down and possesses long post fire security due to the potassium aerosol being suspended in the air of the enclosure for up to an hour.



# Nobel FS-Series

## Suppresses fires at source

The Nobel FS-Series modular, self contained local application systems have been designed to suppress industrial fires quickly and efficiently at source.

A thorough, efficient risk based analysis allows production facilities, process, plant and machinery spaces to be broken down into specific areas of required protection. The optimum Nobel FS-Series system is then installed enabling fast, effective and totally reliable fire suppression in the event of fire. The result is an immediate reduction in the effect of potential fire damage and resultant down time.

Nobel FS-Series use liquid based extinguishing agents such as foam additives and utilise low pressure (4-14 bar) mist technology nozzles. The risk within each specific application dictates the suppression medium type and the quantity of nozzles used, their position within the risk area and the flow rates.

Correct selection of the fire detection system, integration to controls and shut downs enables fast management and securement. Nobel FS-Systems are available from 5 litres capacity and upwards. The maximum size is only dictated by efficiency and economies of scale.



# Nobel Dry Chemical

## The most powerful dry chemical powder systems

Some fire risks can't be protected using conventional suppression mediums. Fires involving pyrophoric materials such as titanium, magnesium etc need specialist dry chemical agents to successfully contain and suppress a developing fire. Some chemical liquids can react with gases or liquids used so Nobel have a range of Dry chemical agents to suit most risk types.

Each system is designed to allow the chemical powder to interfere with combustion through both chemical and physical interaction, exploiting the high efficiency of chemical powder to achieve rapid knock down and suppression.

The dry chemical powder can be deployed through fixed pipework and nozzle systems automatically utilising fire detection and controls. They can also be applied manually by means of hand hose lines.

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