



## Our Solutions.

Protecting People & Assets **24/7.**

# Protecting People and Assets 24/7.

Following years of development and testing, Fireward supplies and installs market-leading automatic fire suppression systems across the UK for a number of industries.

That is why we are dedicated to designing and installing only the best fire suppression systems, detecting fires immediately and extinguishing them before they cause severe damage.

With continued development, Fireward are at the forefront of the industry. We offer an entire range of systems for a variety of sectors and applications, including heavy plant, machinery, vehicles, electrical panels, trains, CNC machines and even residential kitchens.

With many insurance companies stipulating that your business has fire suppression installed before granting coverage, there has never been a better time to protect your assets.

Fireward take pride in having the most reliable systems globally, with comprehensive service and support. Our third-party accreditations give our customers the confidence that they are protected 24/7.

# Why Fireward Systems?

- Fully automatic 24/7 fire protection.
- Ultra-fast detection and suppression.
- No electrical power required.
- National coverage.
- A+ rated, as certified by RI:SE.
- 3-year full parts and labour warranty.
- Third party accreditations.
- Cylinder lifespan of 10 years.



# Installing World Class Technology.

Fireward is a leading and authorised distributor of Reacton Fire Suppression Ltd supplying systems to Fireward from their UK based global headquarters. Here the designing, manufacturing, and testing of all Fireward products occur in strict ISO 9001:2015 certified facilities. With all products being recognised by the Made in Britain association, Reacton holds a range of globally recognised approvals. Fireward systems are certified to P-Mark SPCR 199, P-Mark SPCR 183, UNECE R107 Regulations, ISO 9001:2015 and LPCB LPS 1666.





# Our Systems.

Our ultra-fast detection system consists of a nitrogen-filled tube which balances the stored pressure in the cylinder via our patented valve. Once the tube bursts, the valve allows the agent to discharge either via the detection tube or a predefined discharge network.

We also supply a Electronic Linear Detection as an alternative to our Pneumatic Detection system. In the event of a fire, this cable will signal the control box to activate the fire suppression system.

Both Pneumatic and Electronic Linear Detection is available for all our systems.

## Dual Agent.

Dual Agent systems are an outstanding fire suppression method due to the combined benefits of dry powder and wet chemical in one solution. Using both wet and dry agents reduces the chances of the fire reigniting after discharge. Not only can the system provide rapid-fire knockdown and excellent coverage with the dry powder, but with the cooling properties of wet chemicals, the system is economical and efficient. Our Dual Agent system is performance and durability accredited to RI:SE P-Mark SPCR 199.

## Single Agent.

Performance testing shows that Dry Powder is the single most effective agent for fast fire knockdown. All our single-agent systems for plant, machinery, and vehicles use dry powder. Our Single Agent system is performance and durability accredited to RI:SE P-Mark SPCR 183.

## Clean Agent.

This system is used to help prevent water damage to electrical equipment, something which can be as costly as a fire itself when considering your suppression options. Clean agent systems include the use of non-corrosive agents such as agents as Novec™ 1230™ Fire Suppression Fluid and FM-200™. Through clean suppression agents, our systems can flood a dedicated area to stop fires in a matter of seconds. Meanwhile, your essential equipment is kept dry and safe.

## Installation.

Whether you require a single installation or multiple large-scale projects, our expert team of engineers are on hand to tackle any challenge. We will professionally complete a hazard analysis and risk assessment for an efficient, compliant installation, avoiding the impact of a disastrous fire.

No matter where a fire starts, our experienced engineers can design and install systems tailored to the individual machine, ensuring any fire is quickly suppressed using specialist extinguishing agents such as dry powder, wet chemical, or clean agent.

 **Fireward**  
Automatic Fire Suppression



## Technology.

Our innovative technology is tested to the most rigorous standards, our systems provide outstanding performance and exceptional quality. Manufactured components are made to exceed the requirements of the most robust and demanding operations.

Continued development is a core focus for our business, and close communication with our manufacturer ensures ongoing product progression. Underpinned by our three-year parts and labour warranty, you can rely on us for a piece of mind.

Our patented products ensure our clients receive the most efficient, highly functional technology available on the market today.



# Mobile Plant & Machinery.

Mobile plant is subject to industry-wide risks, and our system ensures ultra-fast detection and fire knockdown. Dust and debris, long hours with minimal downtime and lack of maintenance are frequent causes of fires for mobile plant and machinery.

Equipment in high demand is used uninterrupted in some of the most arduous conditions, creating the perfect environment for a fire to start. We can help mitigate the risk of fire by protecting your assets, our speed of detection helps minimise downtime and damage to your vital equipment.

## Solutions for Mobile Plant and Machinery:



- Research institute Sweden P-Mark SPCR 199 or 183 and AS 5062:2016 is available.
- Additional safety features include an in-cab monitoring panel, battery isolation, machine shutdown, and external manual actuation.



# Static Plant & Machinery.

Static plant can have higher risks due to both the location and the required workload. With the customer demand becoming more stringent on timeframes, the machinery is often running 24/7. Static machinery, based inside confined areas poses an increased threat (especially if combustible materials are involved in the operation). An unattended fire can spread extremely quickly and can have a devastating effect.

Fireward can also provide tailored solutions for additional equipment relating to static machinery.

## Solutions for Static Plant and Machinery:



- Research institute Sweden P-Mark SPCR 199 or 183 and AS 5062:2016 is available.
- Additional safety features include battery isolation, machine shutdown, and multiple external manual actuation.



# Buses & Coaches.

Protect people and keep your wheels moving. With many risk areas on modern buses and coaches, we have the expertise to identify and protect the necessary areas to ensure the safety of your passengers and protect the vehicle.

New buses and coaches are now subject to UNECE Reg. 107 which means vehicles must have bus fire protection systems fitted. Our Dry Powder systems are fully Reg. 107 tested and compliant. In addition, we can also supply the highest globally available system under the SPCR 183 standard.

Working closely with our UK manufacturer, Reacton, we are best placed to install and service bus fire suppression systems around the UK.

## Solutions for Buses & Coaches:



- UNECE Reg. 107 Dry Powder specification is available.
- Research institute Sweden P-Mark SPCR 183 Single Agent is available.
- Additional safety features include an in-cab monitoring panel and manual actuation.



# Agricultural Machinery.

We support the agricultural industry by protecting a large number of assets and machinery. Tractors, combines, loading machinery, and road vehicles all have fire risks, that we can reduce with our systems. The heat, fuels, and crops involved in farming all increase these risks.

We design and install agricultural equipment fire suppression systems to help you protect your key assets and stock. Our agricultural machinery suppression tackles fires at the earliest stage, preserving your operations and securing your vehicles and machinery.

## Solutions for Agricultural Machinery:



- Research institute Sweden P-Mark SPCR 199 and AS 5062:2016 is available.
- Additional safety features include an in-cab monitoring panel, battery isolation, machine shutdown, and external manual actuation.



# CNC & EDM Machinery.

Facilities using CNC machinery face a significant fire risk due to the high-speed components, long-running times, and highly flammable lubricants. At Fireward, we provide CNC fire suppression, helping you to stop fires within seconds in your valuable machinery. CNC fire suppression systems ensure that your machinery and surrounding equipment avoid the costly damage that fire can cause.

Our CNC systems use 3M™ Novec™ 1230 Fire Protection Fluid and FM-200™.

3M™ Novec™ 1230 is a fluorinated ketone that is stored as a liquid and discharged as a gas. It is electrically non-conductive and leaves no residue after discharge.

FM-200™ sometimes referred to as HFC-227ea is the most tested liquefiable clean agent of all time. It is an electrically non-conductive, odourless and colourless gas.

## Solutions for CNC/EDM Machinery:



- Direct/ Indirect 3M™ Novec™ 1230 or FM-200™ specification is available..
- Additional safety features include manual actuation, end of line gauge and machine shutdown.



# Electrical Panels & Server Racks.

Malfunctions, overheating, sparks, and wire fatigue can all cause sizable fires in electrical components. Left unchecked, fire can quickly bring down the production of critical electrical panels and PLC cabinets – with your business suffering as a result.

3M™ Novec™ 1230 is a fluorinated ketone that is stored as a liquid and discharged as a gas. It is electrically non-conductive and leaves no residue after discharge.

FM-200™ sometimes referred to as HFC-227ea is the most tested liquefiable clean agent of all time. It is an electrically non-conductive, odourless and colourless gas.

Through clean suppression agents, our systems can flood danger zones to stop fires in a matter of seconds. Meanwhile, your essential equipment is kept dry and safe with no clean up.

## Solutions for Electrical Panels & Server Racks:



- Direct/ Indirect 3M™ Novec™ 1230 or FM-200™ specification is available.
- Additional safety features include manual actuation and end of line gauge.



# Residential Kitchens.

Kitchens are notorious for causing house and apartment fires which can be prevented with fire suppression. Fireward protect kitchens from care homes, student accommodation, hotels, and schools. Fryers, hobs, range ovens, and grills present the biggest fire risk. Kitchen fire suppression from Fireward protects valuable equipment and improves the safety of the people in and around the building. Our systems are integrated into the building alarm system, ensuring everyone is protected 24/7.

Our kitchen fire suppression system fits neatly into the kitchen around the extractor fan. Even though the system is out of sight it is always ready to suppress a fire when one breaks out.

The suppressant agent that we use in our kitchen systems is Class F wet chemical. The advantages of using Class F wet chemical include its rapid knockdown capabilities and its coverage to eliminate the fire and prevent reignition.

## Solutions for Residential Kitchens:



- Indirect, single nozzle, Class F wet chemical specification is available.
- Additional safety features include an end of line gauge and a pressure switch (to connect to existing equipment, i.e., fire alarm).



# Accreditations & Approvals.

## P-Mark SPCR 183 & 199

According to SPCR 183, P-Mark has been developed for fire suppression systems in engine compartments of buses and coaches. According to SPCR 199, P-Mark has been developed for fire suppression systems in engine compartments of heavy vehicles. Reacton achieved the highest score possible in the P-Mark SPCR 183 & 199 with a 10/10 rating (A+).



## AS-5062:2016

The AS-5062:2016 certification is a highly recognised standard for protection of mobile and transportable equipment across multiple sectors, including construction equipment, heavy plant & machinery and mining equipment.



## UNECE R107

The UNECE Regulation 107 was developed to increase the safety of buses and coaches. It is a set of legislative documents that provide the framework through technical prescriptions and guidance documents for any contracting parties. This specifically looks at the installation and testing of fire suppression systems in engine compartments of all single-deck, double-deck, rigid or articulated M2 or M3 vehicles.



## LPCB LPS 1666

Reacton holds the LPCB LPS 1666 approval for our range of direct clean agent protection systems, which includes 3M™ Novec™ 1230 and Chemours FM-200™ Fire Protection Fluid. The approval is the world's first third-party fire test standard for direct low pressure (DLP) application fixed fire suppression systems. It provides allowances for leakage and forced ventilation, as proven in the testing laboratories of the BRE.



## UL COMPONENT

This UL Listing certifies Reacton's detection tube as a Heat-automatic Fire Detectors – Component. Having a core product Certified by UL demonstrates that you focus on providing your customers with a secure, safe, and sustainable offering. Products wearing their world-recognised UL Mark identify your product as meeting or exceeding UL's stringent requirements.



Reacton System in P-mark Test Environment:





# Fireward's Eco-Mission.

Fireward are committed to conducting business with respect and care for the environment. Providing leading environmental best practices so we can satisfy the requirements of the ISO 14001:2015 standard.

Being involved in the waste management industry, we have a social and ethical responsibility to be environmentally friendly in the way we conduct our business. Some examples of this are:

### Fluorine Free Foam suppression agents:

The foam agent historically used within the fire suppression industry is AFFF agent. However, Fireward's fire suppression systems utilise FFF, which is an environmentally friendly and efficient alternative.

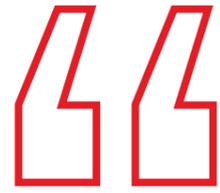
### Recycling of old systems:

When systems are replaced or removed, the individual parts are sent to our recycling centre. Our sister company, Dunmow Group, will process and recycle the materials as part of its scrap metal and other material operations.

### Ozone Depletion:

Fireward favour, promote, and use 3M™ Novec™ 1230 Fire Protection Fluid in place of FM-200™ where possible as 3M™ Novec™ 1230 has an Ozone depletion level of zero, meaning the agents will not cause damage to the Ozone Layer.





# What Our Customers Say.



“Fireward have helped the needs of our customers through their supply, installation and service of their Fire suppression system on Hitachi construction machinery. The team are professional, knowledgeable and timely, and we know our customers are safe in the hands when they choose Fireward.”

Hitachi Construction Machinery (UK)



“As market leaders in the production of balers and conveyors, Presona needed a trusted and professional partner to deliver fire suppression to our international customer base. The Fireward team were a perfect fit in the development of SupPressa™ and matched our standards and ambitions in delivering a money, asset and life-saving solution”

Presona



“As a long-standing customer of Fireward I have found the service and backup exceptional from the team members in the office to the installation team on the ground”

Gunn JCB



“It put our mind at ease knowing that Fireward systems are there to protect our machines in case of a fire.”

The Woodhorn Group



- ✓ Independently Tested & Approved Systems.
- ✓ Fast Response Nationwide Engineers.
- ✓ Comprehensive Servicing Packages.
- ✓ Insurance Approved Systems.
- ✓ Fully Certified Engineers.

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14 Baynes Place, Chelmsford, Essex, CM1 2QX

[www.fireward.co.uk](http://www.fireward.co.uk) | 0800 151 0249 | [info@fireward.co.uk](mailto:info@fireward.co.uk)