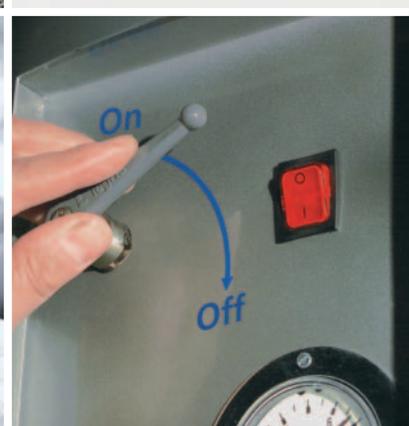
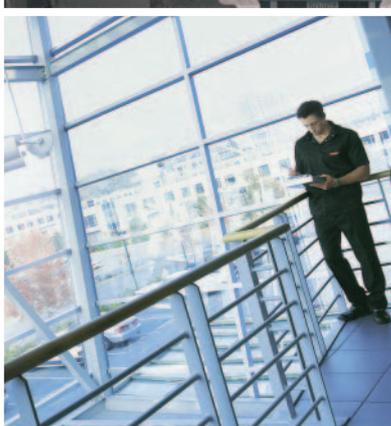
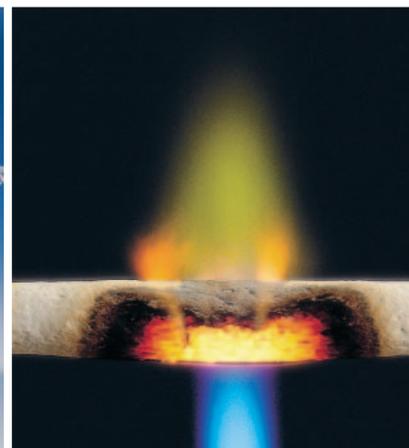
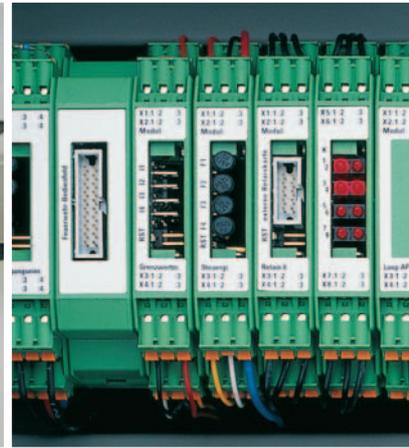
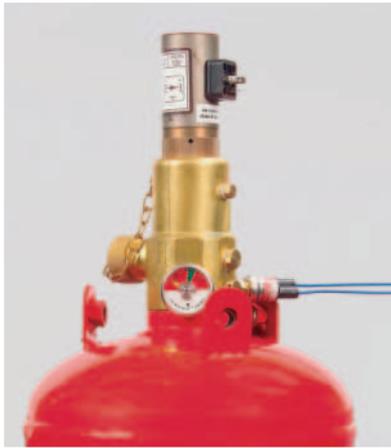




Complete Fire Protection Systems  
from a Single Source

*Cool down.  
Fire Protection by*

**MINIMAX**



# CONTENT

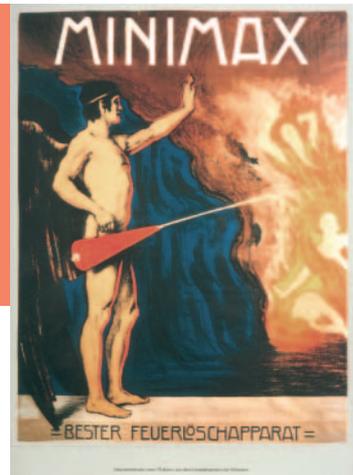
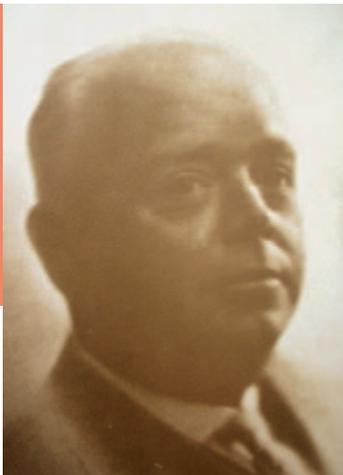
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# MINIMAX

## Experience

### Minimax Chronicle

- 1902** The company is founded in Berlin by Wilhelm Graaff and develops the legendary Minimax conical extinguisher. Employees create the trademark:  
**minimum effort,**  
**maximum efficiency = Minimax**
- 1905** Minimax acquires the production center in Neuruppin.
- 1909** Minimax is the number 1 worldwide – with foreign companies in Europe and the USA. Minimax conquers the world with its products – more than 300,000 devices have already been exported to 28 countries.
- 1926** The first Minimax foam generators are introduced on the market.
- 1945** Minimax is built up again in West Germany after the destruction of the administration buildings in Berlin and after expropriation of the factory in Neuruppin.
- 1953** In Bad Urach near Stuttgart the most up-to-date German factory for fire extinguishers, fire extinguishing devices and extinguishing systems for fire fighting vehicles is established.
- 1958** Minimax extends the factory in Bad Urach.
- 1959** The first universal ABC fire extinguishing powder obtains its official approval.
- 1966** The SFH (Selbsttätige Feuerlöschanlagen GmbH) relocates its factory to Bad Oldesloe in Northern Germany.
- 1967** The fire protection research centre is inaugurated with its own “fire house” in Bad Oldesloe.
- 1969** Minimax is taken over by Preussag AG and merged with SFH.
- 1991** The Minimax GmbH with its head office in Bad Oldesloe and a branch office in Bad Urach is founded. Minimax GmbH is the leading company of all fire protection activities of the Preussag AG.
- 1998** Minimax extends the fire protection research center in Bad Oldesloe.
- 2001** Preussag concentrates on their basic business: tourism. Minimax gains a new shareholder with Barclays Private Equity Deutschland.
- 2002** Minimax celebrates its hundredth anniversary!
- 2003** Investcorp acquires Minimax. Minimax GmbH and Minimax Holding GmbH merge into the Minimax GmbH & Co. KG.
- 2005** The Minimax GmbH & Co. KG bundle their activities in the range of the mobile fire protection in a discrete association – the Minimax Mobile Services GmbH & Co. KG.
- 2006** Industri Kapital acquires Minimax from Investcorp.
- 2007** Minimax expands business in the USA with the acquisition of CFP.
- 2009** Inauguration of new fire protection research centre.
- 2009** Minimax merges with Viking.



# MINIMAX

A single source

## International complete service provider

Fire is one of the most underestimated of all risks. A fire can break out anywhere – the important thing is how fast it can be detected and extinguished.

For over 100 years, the Minimax Group has been a firm global leader in fire protection.

Safety through technology: in power stations, paint spraying and wind energy plants, wood processing, logistic warehouses, server rooms and on ships – wherever there is a risk of fire, Minimax has a range of individual solutions to ensure optimal protection for people, machines, buildings and the environment. As an internationally active provider of integrated solutions, Minimax offers all fire protection concepts from

one single supplier: from simple fire extinguishers all the way to the most cutting-edge automatic extinguishing systems.

Our quality is tested regularly – for us, a matter of course; for our clients and many admission entities, the guarantee for safe fire protection solutions which comply with all applicable regulations. Intensive development work carried out in its own fire protection research centre ensures that the company will continue to develop trend-setting, innovative solutions well into the future. A comprehensive service – from training through maintenance all the way to fault management – completes the Minimax offer.

## Research for a fire-proof future

Every year fires claim many human lives, in addition to billions of dollars in assets. In 1967, Minimax set up the “Fire Research Center”, in order to provide new impulses for systematic fire protection research. Since then, full-scale emergencies have been staged here in keeping with the motto “We have a fire, so you don’t”.

The fire hall and the technical centre have been renewed in 2009. Now, a fire test room with an area of 320 m<sup>2</sup> and a height of up to 15 m is

available for tests. Through integration of a mobile suspended ceiling, the ceiling height can be lowered with minimal effort to 2 m.

In addition to this, some 14 kilometres from the Minimax Mobile Services headquarters in Bad Urach, Minimax boasts a fire research centre stretching 2500 square metres.

Minimax Fire Protection Center:  
emergency situations



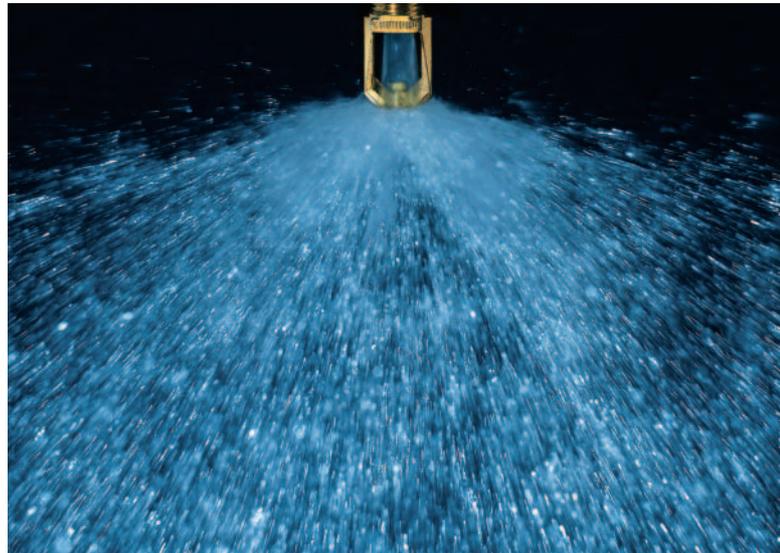
# OVERVIEW

## Sprinkler systems

Sprinkler systems are self-acting fire extinguishing systems having an uncomplicated as well as a safe functioning principle. A network of piping and sprinkler heads is installed throughout the areas of the building requiring protection and is constantly under pressure. Under normal conditions the sprinkler head is closed off by a liquid-filled bulb. If due to the effects of a fire, the ambient temperature in the immediate vicinity rises by approximately 30 °C above the maximum temperature expected under normal conditions, the glass bulb bursts. The pressurized extinguishing water then flows through the piping into the sprinkler head and the resulting water jet hits the spray plate which diverts the spray to the areas to be covered. At the same time the water flow in the piping network trips the alarm systems. When the fire is extinguished you replace the sprinkler that was activated and the system is ready for operation again.

In order to provide effective solutions for the diverse variety of fire risks, Minimax sprinklers are offered in a range of versions with special spraying characteristics. All sprinkler system components are also available as part of the Minimax product portfolio.

The different types of systems, such as wet or dry systems or pre-controlled dry systems, are adapted to meet specific criteria, for instance places prone to frost or special risk areas.



Undercover Sprinkler



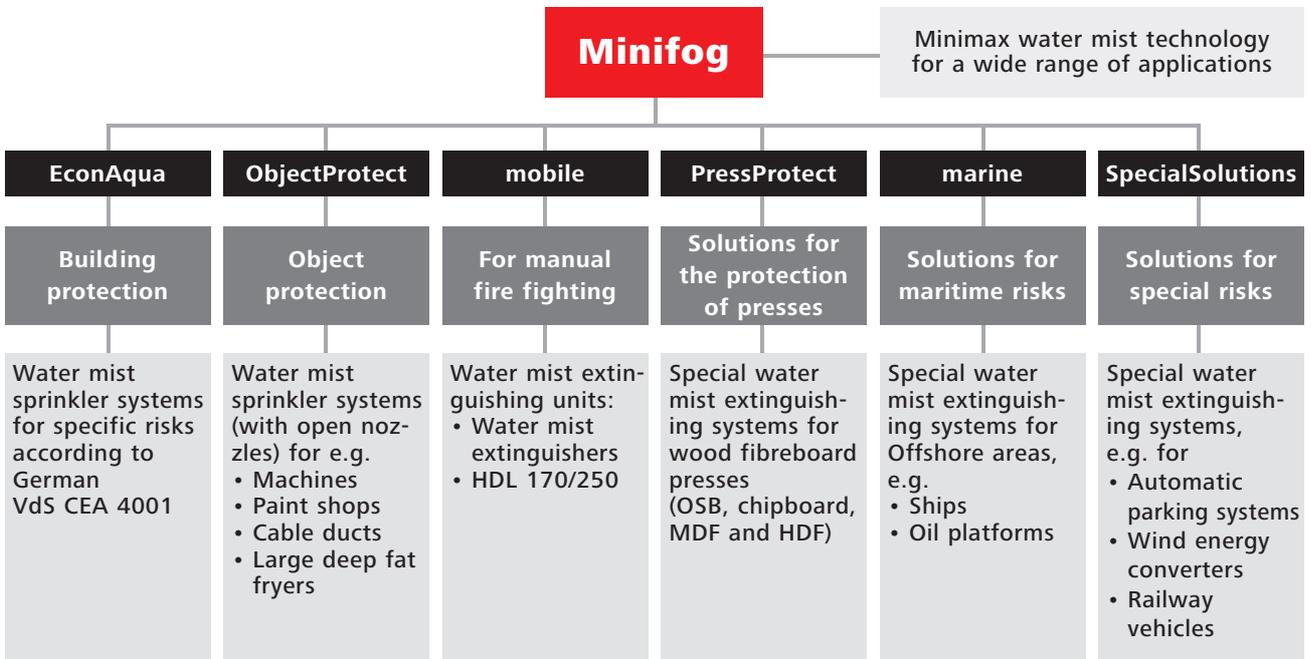
Preaction Sprinkler

# OVERVIEW

## Minifog water mist systems

Minifog is suitable for various applications, whether for protection of rooms or of objects. Minifog extinguishing technology features extremely efficient exploitation of the physical properties of water. The extinguishing water is applied through special nozzles or sprinklers as a water mist system so that the total surface area of the extinguishing water is multiplied many times by fine droplet formation. The water entrains the heat from the fire particularly efficiently and so the base of the fire and its surroundings are immediately cooled effectively.

Also evaporation of the extinguishing water in the fire captures a great deal of additional latent heat and at the same time the steam produced impedes the supply of oxygen to the base of the fire: The reduction of the oxygen concentration in the immediate vicinity of the flame zone results in an additional smothering effect. The arrangement of the nozzles and the optimal droplet formation mean that the base of the fire is still reached even if there are inhibiting factors such as thermal currents or air movement.



# OVERVIEW

## Water spray systems/Extinguishing water technology

### Water spray systems

If conditions are such that extremely rapid spreading of a fire can be expected, then Minimax water-spray extinguishing systems can provide maximum safety. Water-spray extinguishing systems operate with open extinguisher nozzles which, in the event of fire, distribute the extinguishing water over the entire protected area, the quantity of extinguishant needed being minimal. Spray extinguishing increases the surface area of the extinguishing water, entrains the heat of combustion and therefore cools the combustible substance. In addition to this cooling effect there is a smothering effect because the steam produced impedes the oxygen supply to the base of the fire.

Water-spray extinguishing systems are designed for space or equipment protection. In the case of space protection the extinguishing water is distributed evenly across the whole area of the fire hazard. The extinguishing nozzles are therefore arranged evenly spaced at ceiling level. In the case of equipment protection systems, defined objects particularly subject to fire hazard are provided with water spray for protection or for preventive cooling. The extinguishing nozzles are therefore arranged to be specifically aimed at the object. For tall objects they may also be installed at several levels. In the event

of a fire, the smoke/gas-entraining, cooling and radiant heat-reflecting effect of a water-spray extinguishing system also provides excellent protection for personnel.

Distribution of the extinguishing water is determined by the number, size and spray-characteristics of the nozzles and arranged to suit the objects and areas to be protected.

### Extinguishing water technology

Extinguishing water technology is an indispensable part of preventive fire protection. Water is the no. 1 extinguishant and as drinking water it is also an important resource for our world. Therefore the specific requirements imposed on planning and design of systems, which are directly connected to the drinking water supply, are very high. Minimax extinguishing water systems correspond to valid standards as well as the statutory provisions and guarantee highest possible safety.

After completing all the necessary research, Minimax is now ready to put three of its own products (a compact pressure booster and filling and draining devices) onto the market under the 'maximat' brand name.

Minimax also offers a lot of different components of extinguishing water systems, for example fire extinguishing hose connecting equipment (wall hydrants), above-ground and underfloor hydrants and more.



# OVERVIEW

## Foam extinguishing systems

Storage facilities, incineration plants, refineries or plastics/tyre depots have one thing in common: they pose a special risk. When flammable liquids or plastics catch fire, the fire spreads very quickly and toxic combustion gases are emitted. This results in damages that cost millions as well as environmental pollution. Foam extinguishing systems are the most effective fire protection for this risk area.

Extinguishing foam is a highly effective mixture of water, foaming agent and air. A stable foaming agent percentage is added to the water flow with admixture devices. The produced mixture is foamed with air in subsequent foam generators. The foaming degree depends on the capacity of the used foam generator, the foaming agent and the foaming agent admixture rate. In case of a low air intake a wet, heavy extinguishing

foam is produced (low expansion foam). If the air percentage is increased, the foam becomes drier and thus lighter (medium and high expansion foam). The air foam utilizes different extinguishing effects: cooling, suffocating, separating, covering, restraining and displacing – each one alone or together with others they provide a quick extinguishing success.

With a versatile foaming agent range, Minimax offers safe and flexible application.

As an exclusive manufacturer, Minimax supplies sprinklers for the production of low expansion foam. Minimax also specialises in stainless steel nozzles for low expansion foam extinguishing systems. Perfectly aligned components are supplied in line with the individual needs of clients and according to respective fire protection requirements.



# OVERVIEW

## Powder extinguishing systems/Permanent inerting

### Powder extinguishing systems

Powder extinguishing systems are permanently installed fire extinguishing systems. Extinguishing powders are highly efficient and fast-acting extinguishing agents. The sudden three-dimension extinguishing effect of the powder clouds is due to the smothering effect and the anti-catalytic effect, a chemical intervention in the combustion process. Extinguishing powders consist essentially of non-toxic inorganic salts, which are mixed with impregnation and pouring agents. The extinguishing powders are used for fires involving solid, liquid and gaseous materials and for metal fires.

### Large-scale powder extinguishing systems

If several rooms and objects are to be protected by powder extinguishing systems, one central powder supply in pressure-proof steel tanks is recommended for all areas to be protected. Up to 4,000 kg of powder can be stored in one such tank.

### Small-scale powder extinguishing systems

Small-scale extinguishing systems are recommended for objects requiring limited protection. Such powder extinguishing systems have been standardized in design and size for a number of similar objects, which minimizes the cost. Preferred areas of application are exhaustor hoods, exhaust air ducts, lab experiment facilities, etc.

### Permanent inerting

The principle of permanent inerting is to permanently lower the oxygen concentration of the air so that fire cannot break out in the first place. The Permateg fire prevention system offers optimum fire protection when the areas to be protected are not frequented by people and have a relatively high density for reasons of energy, climate or safety technology. In such areas the best possible fire protection is the Permateg system: active fire prevention. Due to the controlled supply of nitrogen, the Permateg fire prevention system keeps the oxygen content of the air in the protected air at a reduced level. The nitrogen displaces the calculated proportion of oxygen, resulting in a fire-proof atmosphere.

The nitrogen for reducing the oxygen is produced economically by a nitrogen generator directly in the Permateg fire prevention system. The monitoring and control unit of the Permateg fire prevention system constantly controls the oxygen content of the air.



# OVERVIEW

## Fire detection systems

Fire detection systems are essential components of a responsible safety management concept. Each object and each area of use holds special risks and requirements. Minimax provides for the optimum detection of fires and the perfect

### Fire detectors

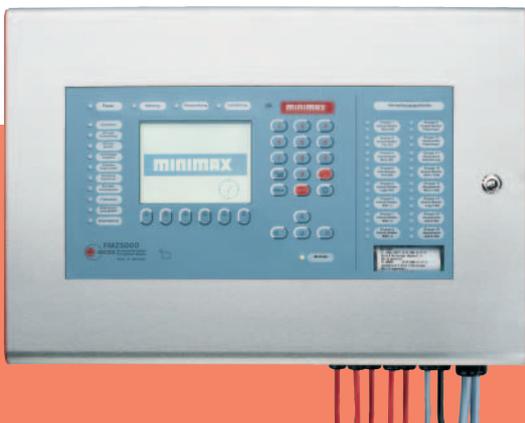
Minimax offers various models of standard fire detectors, optical smoke detectors, heat detectors, ionization smoke detectors and spark and flame detectors.

### Special detectors

Minimax special detectors include multi-function detectors, bypass alarms, aspirating smoke detectors and alarm transmitters.

### Fire detection control panels

Our fire detection control panels span both standard control panels with line technology and ring bus panels for networked systems. With the diverse range of standard and special sensor technology, all configuration levels from compact small control panels to the comprehensive large panels can be compiled individually.



interplay with all other components of the safety concept. Minimax fire detection systems detect fire dangers and incipient fires around the clock.

### UniVario industrial detectors

Minimax has devised a new product Range: UniVario industrial detectors.

With their robust casing and installation technology, these intelligent, platformbased, micro-processorcontrolled fire detectors can cope with even the toughest of conditions. And thanks to their modular concept and modern signal-processing technology, these devices can live up to all sorts of different expectations in an unusually broad field of application.



# OVERVIEW

## Special fire protection systems

Sensitive technologies, objects and areas need a special protection scheme. Minimax has the right solution. Our gaseous extinguishing agents are environmentally safe and provide fast, reliable

protection of human life and material assets. Specially adapted to the individual application, they fight fires with no side effects or negative impact on the protected objects.

### Argotec Inertgas fire extinguishing systems

Argotec fire extinguishing systems are the right solution for protecting high-end systems, sensitive equipment or valuables that could be damaged by the use of other extinguishing agents. These versatile systems use argon (Ar), nitrogen (N<sub>2</sub>) or carbon dioxide (CO<sub>2</sub>) as extinguishants.

Furthermore, the specially developed Argotec CST (Controlled Suppression Technology) is also available. The extinguishing systems are characterised by their ability to administer the corresponding extinguishing solution in a controlled and accurate way.

The 300 bar technology has further increased the cost-effectiveness of the extinguishing gases argon and nitrogen used in the Argotec system. The higher filling pressure means that fewer cylinders are required. This also reduces the installation space by 30 percent.



### MX 1230 Fire extinguishing system

Due to its fast and even distribution of extinguishing agent, the Minimax MX 1230 extinguishing system with the extinguishing agent Novec™ 1230 from 3M™ is an ideal fire protection solution with many benefits for protecting electric and electronic risks.

The extinguishing agent Novec™ 1230 is unique in that it is stored at room temperature in a form as compact as water, but extinguishes as a gas with no residue and even distribution throughout the entire extinguishing area. Each MX 1230 fire extinguishing system is configured individually. The MX 1230 compact extinguishing system combines all components in one unit.



# OVERVIEW

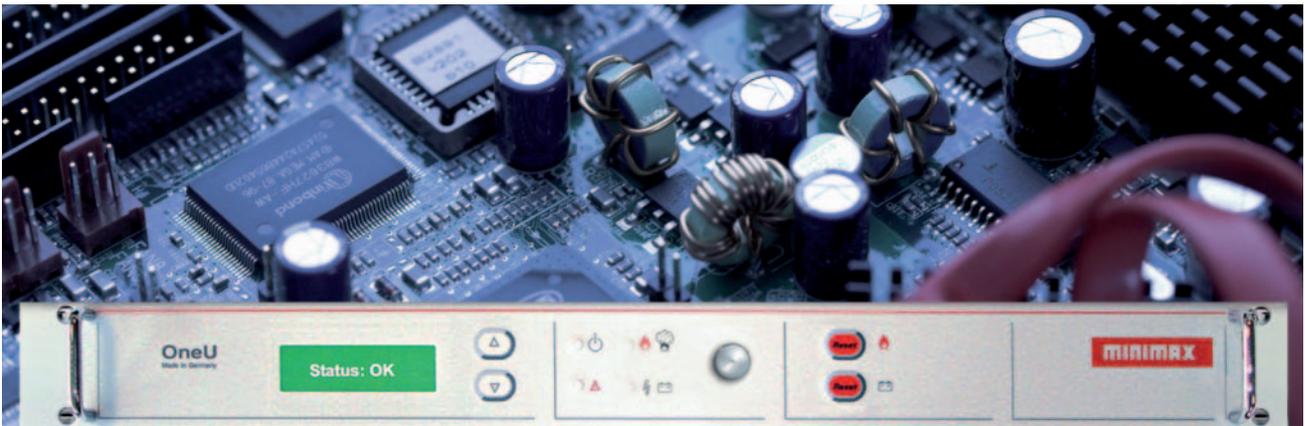
## Special fire protection systems

### OneU active extinguishing system

Companies are helpless in the event of operational downtime due to server room fires. Delivery problems and data loss have catastrophic consequences for the affected companies. With OneU, Minimax offers a unique active extinguishing system especially for

cabinets with electrical and electronic devices, for example servers and IT equipment.

With just a few hand manoeuvres, the space-saving OneU is installed in only one height unit of 19". OneU is available in various constructions.



### Fire extinguishing system MX200

The Minimax MX 200 system with the extinguishing agent HFC-227ea is based on a powerful extinguishing concept for protecting valuable and critical objects. It combines high extinguishing effectiveness with no-residue extinguishing, personal safety and low storage volume. The use of HFC-227ea is recommended especially for risks where speed, weight and space requirements are the decisive factors.

The extinguishing effect of HFC-227ea is based on heat absorption in the flame and therefore on physical cooling and, to a small degree, chemical intervention in the flame reaction. Its excellent extinguishing capacity makes HFC-227ea the ideal extinguishing agent for fast-spreading fires.



# OVERVIEW

## Structural fire protection/Fire extinguisher

### Structural fire protection

Cables, pipes, supply shafts and ducts, coverings and joints are ideal areas for fire to spread quickly. Every duct – even through fire-proof walls, ceilings and floors – can easily become a safety breach. Structural fire protection is therefore an essential part of fire prevention. It helps to prevent and limit fires and to secure escape and rescue paths in the event of a fire. Minimax provides for the compliance with structural fire prevention regulations. All Minimax systems are tested and approved in accordance with DIN 4102 and conform to the state of the art.

To the structural fire protection measures belong:

- ▶ Cable fire Stops
- ▶ Cable coatings
- ▶ Fire protection coating
- ▶ Pipe fire stops
- ▶ Fire protection cladding
- ▶ Fire protection joints
- ▶ Fire protection spray plaster



### Fire extinguisher

#### All fire classifications

For all fire classifications (A, B, C, D, F), Minimax offers ideal fire extinguishers manufactured in its very own production plant in Germany.

Mobile fire extinguishers from 1-12 kg or litres. Navigable fire extinguishers from 10-60 kg or litres.

- ▶ Foam fire extinguishers
- ▶ Foam cartridge extinguisher
- ▶ Powder fire extinguishers
- ▶ Carbon dioxide fire extinguishers
- ▶ Water fire extinguishers
- ▶ Water mist fire extinguishers
- ▶ Fat fire extinguishers
- ▶ Metal fire extinguishers
- ▶ Antimagnetic fire extinguishers

The operating and quality features are identical in all versions. Those who place particular importance on individuality and aesthetics will find an endless variety of options in our design versions.



# OVERVIEW

## Branch solutions

Many branches of industry involve special fire risks and so present special requirements for the fire protection concept. With our know-how and our broad range of products we are the right partner where individual solutions are required.

Examples of branches:

- ▶ Automatic park systems
- ▶ Printing industry
- ▶ Paint spraying systems
- ▶ Airports
- ▶ Historic buildings and museums
- ▶ High-bay warehouses
- ▶ Industrial presses
- ▶ Telecommunications/EDP
- ▶ Power plants
- ▶ Hospitals
- ▶ Kitchens
- ▶ Laboratories
- ▶ Ships
- ▶ Silos and bunkers
- ▶ Machine tools
- ▶ Wind turbines



# OVERVIEW

## Services

### Advice/Planning

With its comprehensive planning and services, Minimax creates all the prerequisites for keeping damages to a minimum in the event of a fire. After visiting the building, grounds or construction site, Minimax specialists create customized fire protection concepts.

### Maintenance

Regular checks are a fundamental prerequisite, so that not only the functioning of your fire protection systems is guaranteed, but also to maintain your insurance cover at all times.

### Architectural fire protection precautions

Minimax can also arrange for carrying out architectural fire protection precautions. As for all engineering systems, the proper functioning of the combined architectural fire protection installations must be guaranteed at all times.

### Improvement/Prevention

So that protective systems still function properly after many years of stand-by service and comply with the state of the art, Minimax service includes much more than just maintenance.

Minimax also offers specific measures and programs for increasing safety and operational readiness, and for increasing convenience or lowering the operating costs of a fire protection system.

### Fault signal management

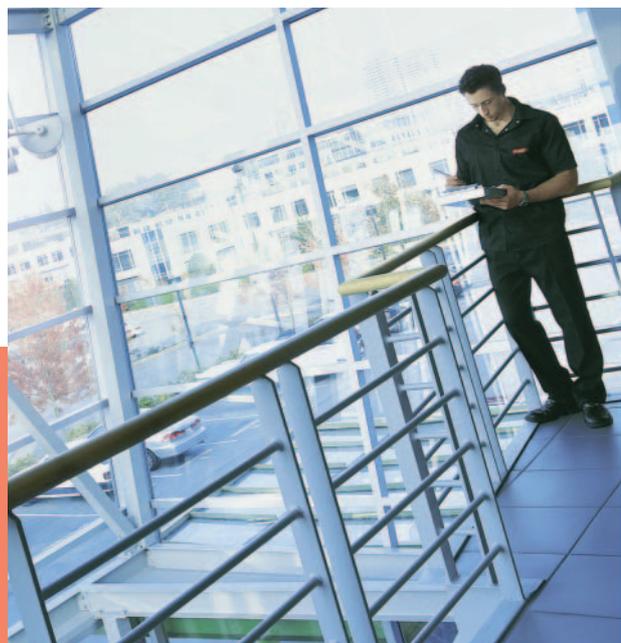
Minimax provides you 24 hours safety. Statutory regulations generally require constant monitoring of fire protection systems. In case of malfunctions, immediate measures must be taken. The Minimax reporting system fulfill these requirements, since all alarm, fault and monitoring signals are sent to central location. When a fault message is received, the employees at the control panel can determine the type of fault, the location of the affected system, the identity of the operator.

Based on a previously prepared individual plan of action, the staff members then proceed to inform the entities arranged.

### Training

For employee training and the presentation of information to customers, Minimax maintains well-attended training centers in Bad Oldesloe and Bad Urach.

On-site training is also offered upon client request.



# ADDRESSES

## Branch offices/Competence Center in Germany

### Head office:

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