

WATER MIST

MINIFOG MARINE XP



Minifog marine XP
water mist extinguishing system
High-pressure technology for maritime risks

*Cool down.
Fire Protection by*

MX BRANDBEVEILIGING

PROTECTION

all around

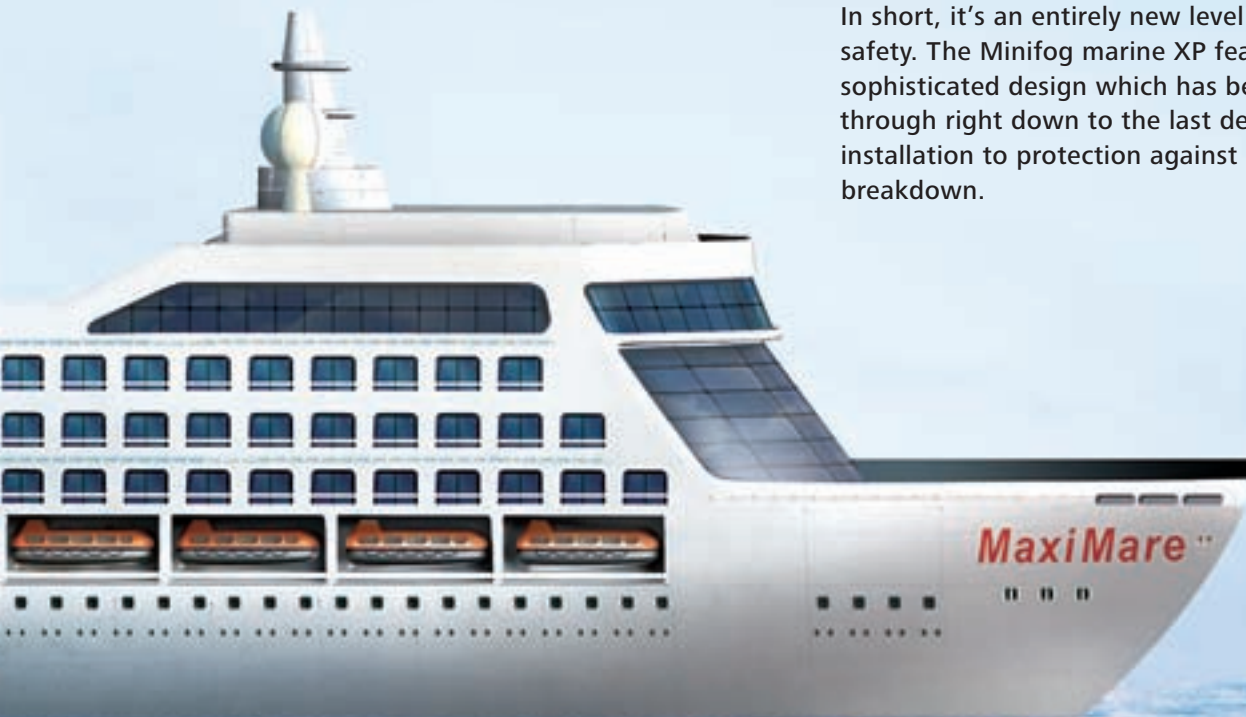
The special conditions at sea mean that safety is an incredibly important issue for ships. The aim is to prevent any danger to make sure everything runs smoothly on board. And the key safety issue for passenger ships is of course the people on board.

Ships are subject to a whole range of fire risks, which means fire protection on board has to be all the more effective. After all, in the event of a fire, it is not as easy to escape when at sea, and prompt fire-fighting assistance from outside cannot be counted on.

Minimax has developed the Minifog marine XP water mist extinguishing system specially for maritime risks. It takes high-pressure technology to new dimensions. Many years of experience in water mist extinguishing technology and the marine sector have gone into the research, and the Minifog marine XP is the result. It complies with all relevant directives and, above all, it is extremely easy to use.

Minifog marine XP offers the optimum all-around protection for seagoing and inland navigation vessels. The fire protection system can protect passenger, public and storage areas, as well as machinery spaces.

In short, it's an entirely new level of operational safety. The Minifog marine XP features a sophisticated design which has been thought through right down to the last detail – from installation to protection against clogging or breakdown.



Research

The Minifog marine XP system has passed tests in numerous fire and extinguishing trials on original structures pursuant to IMO guidelines.



Machinery spaces (bilge) test according to IMO-MS/Circ. 1165

SAFETY

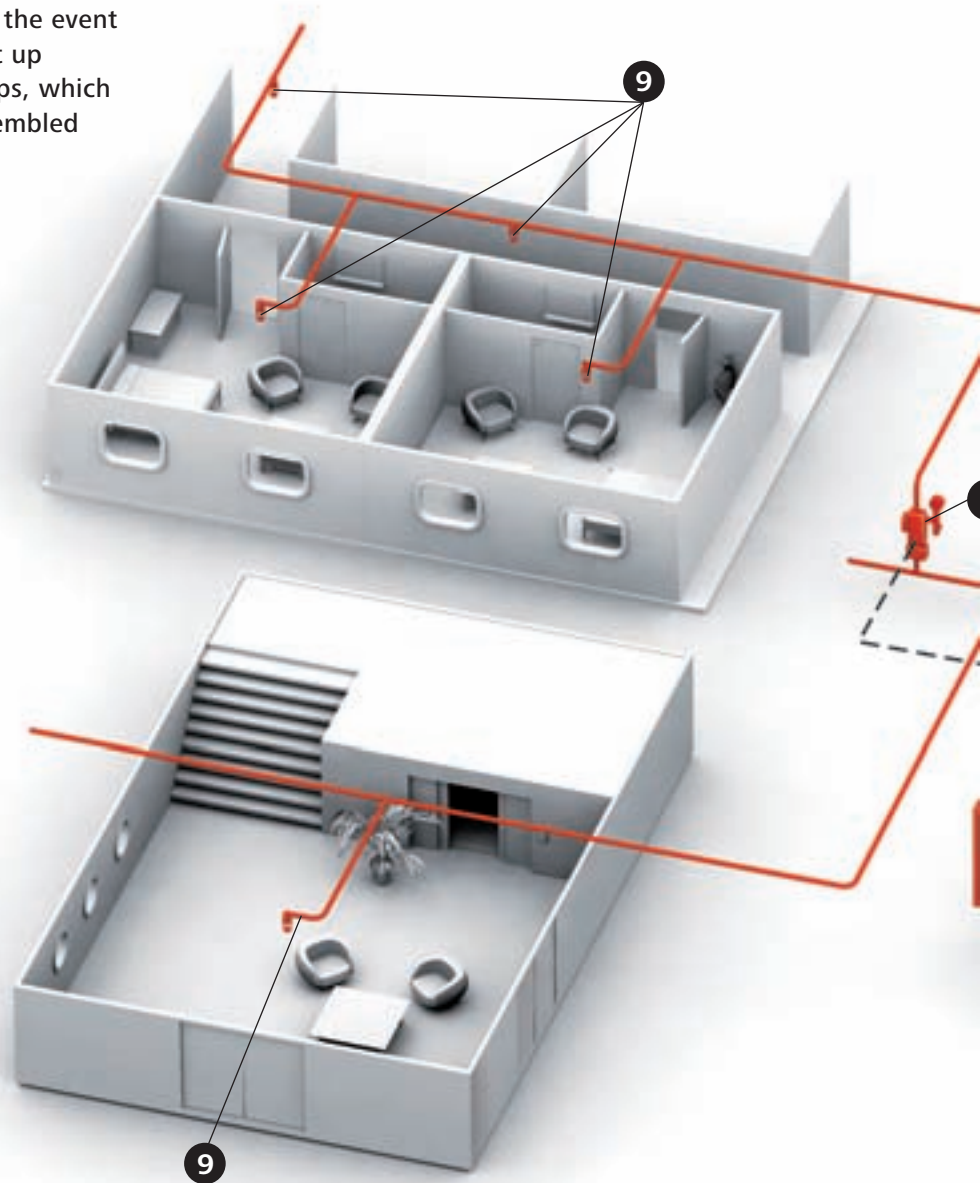
operation

Water supply

The extinguishing water for the Minifog marine XP system is held in a tank which is automatically fed from the ship's own freshwater systems. The system can also be supplied with filtered seawater from the ship's separate hydrant system (fire main), as well as via a shore connection pursuant to international standards and SOLAS regulations. In standby mode, the pipes are filled with water via a jockey pump kept under pressure. In the event of fire, the operating pressure is built up through high-pressure sprinkler pumps, which are integrated in a compact, pre-assembled water supply unit.

Foaming agent mix

Minifog marine XP can be used in all areas without extinguishing agent additives. A foaming agent can be added for fighting fire in the machinery spaces bilge in order to minimise extinguishing water usage even further here. In this case, a proportional device with a supply of foaming agent is connected directly near the machinery spaces to the piping network for the bilge.



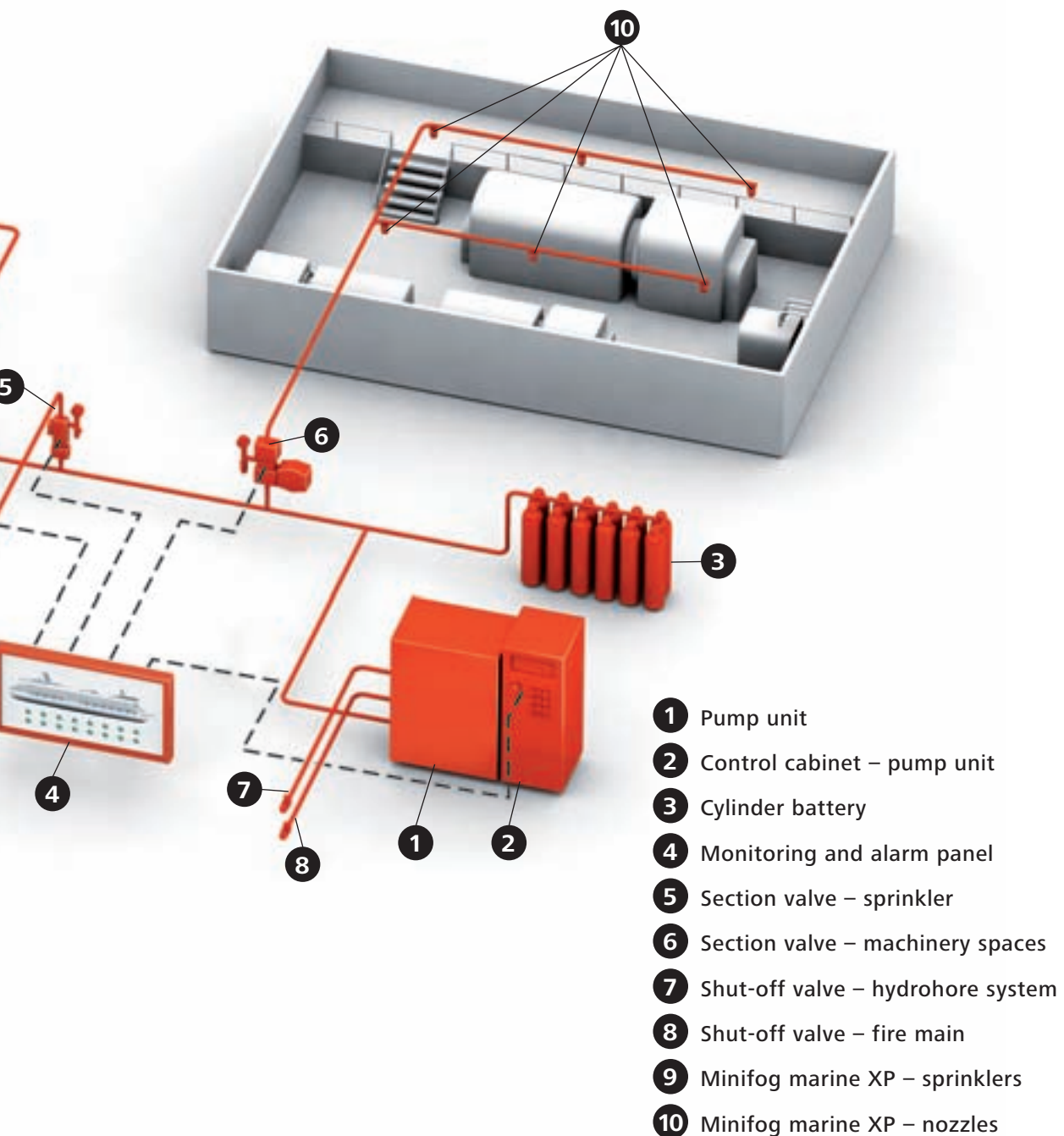
SECURITY

everywhere

Alarms and monitoring

Upon extinguishing system activation, the sprinkler pump control unit automatically sends the “water supply in progress” signal to the bridge or safety station. To localise the fire event, an alarm signal is also displayed, which is transmitted by the affected area’s current indicator.

The Minifog marine XP system is equipped with electric monitoring supplied with power via the emergency power supply system, which monitors all security-related lines to control units and signal transmitters for short circuits or interruption.



AREAS protected

WATER MIST

MINIFOG MARINE XP

Minifog marine XP is designed and installed in accordance with applicable SOLAS guidelines based on IMO Resolution A.800 (19), as well as the design parameters established pursuant to the IMO-MS/Circ. 1165. Typical ship types where it can be used include cruise ships, ferries and large yachts.

The efficient Minifog marine XP water mist extinguishing system can be used in all areas of the ship:

Accommodation, public space and store areas

A single Minifog marine XP sprinkler will provide coverage of up to 32 m² in these areas. That means the sprinklers can be installed at six-metre intervals on corridors – in total, the Minifog marine XP system requires far fewer sprinklers than standard systems, which also simplifies ceiling design.

The Minifog marine XP system is divided into sections by valves. In standby mode, the pipes are filled with pressurised extinguishing water. In the event of fire, the sprinklers only open if they are in the immediate vicinity of the fire source. A control unit registers the resulting pressure drop in the piping and activates the sprinkler pumps. The fire is immediately fought with high-pressure water mist from the opened sprinklers.

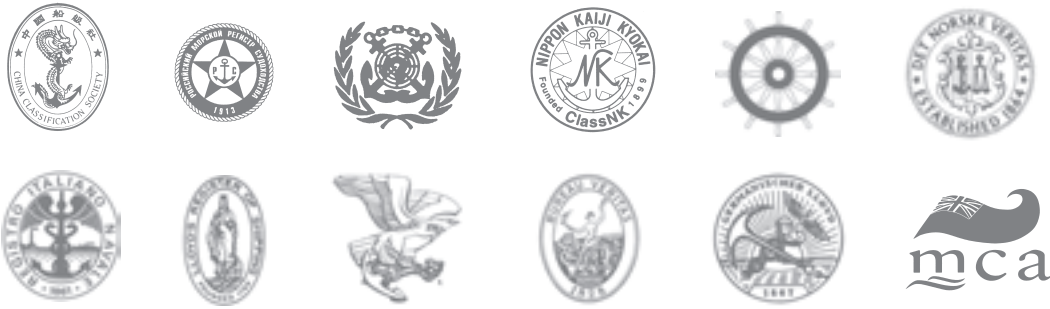
Machinery spaces

In addition to protecting the machinery spaces, the Minifog marine XP also protects objects and the bilge. But only one single type of open nozzle is needed for all areas without foaming agent.

Extinguishing areas are formed in the machinery spaces, each of which encompasses a section valve as well as piping with open water mist nozzles. In standby mode, the extinguishing water under pressure reaches the section valves. In the event of fire, an alarm signal is displayed in the engine control room via a fire detection system, and the section valve is opened for the affected area – either automatically by the fire detection system or at the touch of a button by operating personnel in the engine control room. The pressure before the selector valves then drops, the sprinkler pumps are activated and the affected area is completely soaked with high-pressure water mist.

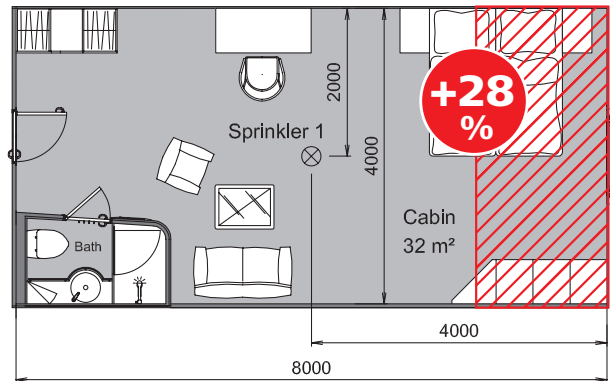


ADVANTAGES



Minifog marine XP advantages

- ▶ Uses 90% less extinguishing water than classic sprinkler systems.
- ▶ Conduit diameters from 10 to 42 mm save valuable space.
- ▶ No separate fire protection system needed to protect the machinery spaces.
- ▶ Just one sprinkler in a cabin can cover up to 32 m².
- ▶ Sprinklers can be spaced up to 6 m apart in the corridors.
- ▶ Protects the entire machinery spaces, including objects and the bilge, with just one nozzle type.
- ▶ Stainless steel sprinklers and nozzles.
- ▶ Sprinkler and nozzle outlet ports 1 mm in diameter or more. No risk at clogging.
- ▶ Machinery spaces (incl. bilge) can be protected without foaming agent.



Classic sprinkler 16 m²
 Conventional high-pressure water mist sprinkler 25 m²
Minifog marine XP sprinkler 32 m²



MX-Brandbeveiliging B.V.
 Televisieweg 62
 NL-1322 AM Almere
 Tel.: +31 (0) 36 54 61 600
 Fax.: +31 (0) 36 54 61 610
 E-Mail: info@mx-brandbeveiliging.nl
www.mx-brandbeveiliging.nl

