



Waterless extinguishing

With AF-X Fireblocker

Prevent fire damage Secure business continuity Prevent consequential loss Safe, inexpensive

Use AF-X Fireblocker

Originally developed for space travel, the AF-X Fireblocker acts as a built-in firefighter that rapidly extinguishes fires using a dry aerosol. This system operates without water or gas, thereby avoiding water damage and ensuring there are no toxic gas emissions.

Consequently, there is no fire damage, no water damage, and no consequential losses. The system is safe for humans, animals, and the environment.

AF-X Fireblocker is Unique

Most onboard fires result from electrical faults or malfunctioning equipment, often in unseen and unnoticed locations. The compact AF-X Fireblocker systems are designed to extinguish fires both in open spaces and at their sources, effectively halting the fire before it spreads. This innovative approach significantly reduces potential damage by swiftly neutralise the fire's self-reinforcing cycle.

Prevent fire with AF-X Fireblocker

Fire can cause immense damage to your crew, vessel, and the environment. In fact, fire and its consequences can be devastating, potentially leading to significant financial losses or even the complete loss of your ship. Implementing preventive measures against fire is crucial. Did you know that over 60% of businesses that suffer a major fire go bankrupt within three years? Ensuring your vessel is protected can prevent you from becoming part of this statistic.

Meet the family













> BL

Once activated, the aerosol fire extinguisher initiates a reaction in which the released aerosol binds the free radicals.

The aerosol used in AF-X generators is Potassium-based (K), which binds faster with the unstable free radicals O (oxygen) and H (hydrogen) than a fire reaction. Forming stable products such as KOH (making unstable radicals stable). Due to the presence of CO2, the KOH disintegrates into K2CO3, a stable white substance that is noncorrosive and poses no danger to humans, animals, and the environment.

This action extinguishes fire without depleting the ambient oxygen content. The solid particles of Potassium based (K) have a particle size of less than two ppm (parts per million) and remain in suspension in the protected room/enclosure for at least 30 minutes, preventing further re-ignition of the fire.

Extinguishing is achieved.

By two reactions:

- > Physical
- > Chemical

Physical

By absorbing the energy needed for the chemical reaction, it results in a cooling effect.

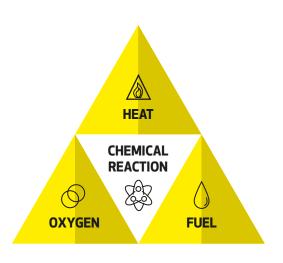
Chemical

The instable radicals (OH) react with Potassium (K) quicker than the fire-reaction and create a stable potassium hydroxide (K2CO3).

A fire is a chain reaction between

- > Heat
- > Fuel
- > Oxygen

So break the chain!



AF-X Fireblockers Optical & visual signal Detection **ETB Control Unit Manual activation Block pulse** Maintance keyswitch Fire control panel

Let's implement

Some basic elements in a system

AF-X Fireblocker

The AF-X Fireblocker extinguishing system utilises an aerosol compound to extinguish the fire. Extinguishing with an aerosol is rapid and very effective in suppressing fire without damaging the present equipment or processes. The extinguishing takes place at a molecular level by binding and stabilising oxygen molecules and absorbing the energy (heat) present in the flame. AF-X Fireblocker is non-corrosive and environmentally friendly and is safe for humans and animals

Detection

To quickly detect a fire, detection systems are installed in the space. In a given space, detection can occur through various means such as:

- > Smoke detectors
- > Thermal detectors
- > CO and thermal multi-detectors
- > H2 (Hydrogen) detectors
- > Or other external detection mechanisms like Aspriration, Linear Heat detection, etc.

Fire control panel

A fire control panel is the hart of the extinguishing system and communicates between the detection and the extinguishing system.

The panel will detect and respond in case of a fire by activating the AF-X Fireblockers and sounding a alarm.

Different vessels, different systems

All systems are modular and selected to optimise the specific needs to ensure the required safety.













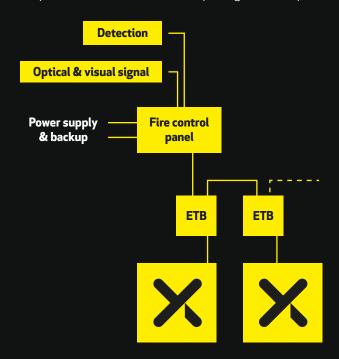


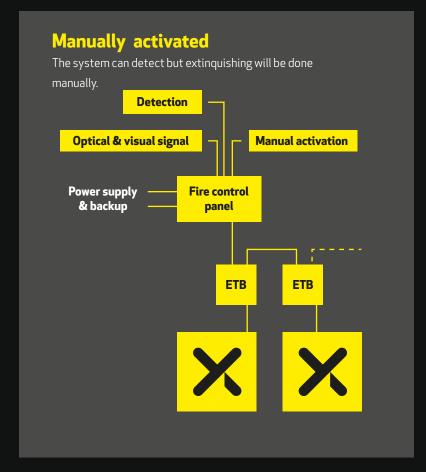




Fully automatic systems

The system will detect and start extinguishing automaticly.





Regulated according IMO 1270

To comply with IMO standards the system will be installed likewise.

