

Battle hardened fire protection

HI-FOG[®] for naval vessels



BAE SYSTEMS

A strong ally in th

The HI-FOG® water mist fire protection system delivers efficient fire protection for both surface vessels and submarines. Fully approved by the International Maritime Organization and tested according to naval fire protection protocols, HI-FOG® delivers the performance and reliability needed to protect naval vessels from fire.

Using small amounts of pure water, HI-FOG® quickly and effectively fights fire, while minimizing damages and keeping crews safe even on the longest deployments in the toughest conditions.



HI-FOG® naval references include:

- Offshore patrol vessels
- Surface combatants
- Force projection ships
- Mine warfare vessels
- Auxiliary vessels
- Submarines

Immediate activation

Spaces do not need to be evacuated or closed off for HI-FOG® to be activated. The moment a fire is detected, HI-FOG® can be activated immediately, attacking the fire in seconds. HI-FOG® can swiftly control, suppress and extinguish the fire. The water mist blocks radiant heat as it cools the surroundings, preventing the fire from spreading or reigniting and allowing quick access for damage control teams.

Operational continuity

The quick and effective fire fighting of HI-FOG® minimizes the interruption of operations and reduces potential fire and water damages. HI-FOG® can even allow vessels to reduce the needed resources for damage control.

Remaining protected after a fire is equally important. While most other solutions need recharging or special servicing after activation, HI-FOG® is ready to go again without delay. If the freshwater tanks are emptied, HI-FOG® can switch to sea water for continued fire protection.

The fight against fire



Reliable and safe

HI-FOG® is an extremely powerful fire-fighting system. Thousands of full scale fire tests and numerous real fires have proven its value time and again.

The pure water mist of HI-FOG® is equally valuable in terms of personnel safety. It poses absolutely no risks to human life.

When safety checks are performed, crews can be trained using the actual system. HI-FOG® can be activated without posing any problems to crew or equipment, and without expensive recharging.

Complete protection

HI-FOG® pioneered high-pressure water mist technology for marine applications. Through intensive research HI-FOG® has become a high performance solution well suited for a wide range of spaces, from accommodations to the most challenging machinery rooms.

Be it control and suppression in the large open spaces of carriers or quickly extinguishing fires in the tight compartments of submarines, HI-FOG® does the job. Total flooding, local application and sprinkler installations can be combined with same main components serving the entire, integrated system.

HI-FOG® key benefits:

- **Fast:** immediate activation and rapid cooling
- **Proven:** success in countless tests and real fires
- **Safe:** harmless to people and the environment



HI-FOG® 2000-series sprinkler



HI-FOG® 1000-series sprinkler



HI-FOG® sprayhead



Gas-driven pump unit module (GPU)



Electrically-driven pump unit (SPU)



Marioff is committed to ensure navies around the world get the best in water mist fire protection. Special HI-FOG® pump and tank units have been designed specifically for naval applications. These units meet the anti-shock and vibration requirements of military standards as well as provide an antimagnetic construction if needed.

The pump and tank units are very compact. Each module is small enough to fit through an 80x80 centimetre manhole. The system has been designed in accordance with U.S. Navy specifications MIL-S-901, MIL-S-740, MIL-S-167 and supports a very wide range of configurations.



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