



Founded in 1985, Marioff is a leading provider of water mist fire protection on land and at sea. Our HI-FOG® Water Mist Fire Protection System is installed on almost every large cruise ship in the world. On land, HI-FOG® protects many structures such as tunnels, stations, hotels, energy facilities, heritage buildings, data centres and hospitals.

Headquartered in Vantaa, Finland, Marioff employs a skilled team of fire protection, mechanical, hydraulic and electrical engineers. This core group supports a global network of subsidiaries and agents, providing installation and commissioning assistance as well as service and maintenance backup.

HI-FOG® is the fire protection technology of choice across a diverse range of applications, backed by a dedicated team whose one aim is to provide customer satisfaction.

Marioff is part of UTC Climate, Controls & Security Systems, a unit of United Technologies Corp., which provides high technology products and services to the building and aerospace industries worldwide.





What is HI-FOG®?

HI-FOG® is the trade name of the high-pressure water mist fire protection system developed, manufactured and delivered by Marioff.

The HI-FOG® Water Mist Fire Protection System can be used in place of deluge, gas, foam, dry chemical, traditional sprinkler and any other type of fixed fire protection system. It is efficient against most types of fires.

HI-FOG® water mist

HI-FOG® controls, suppresses and extinguishes fires by discharging a fine water mist at high velocity. The water mist is made by the system when it activates: it pushes the plain, potable water at high pressure through specially designed, patented HI-FOG® sprinkler and spray heads. The water mist is discharged at high velocity by high-pressure pumps or accumulators.

HI-FOG® water usage

HI-FOG® uses three mechanisms to fight fire: cooling, radiant heat blocking and local oxygen inerting. Traditional sprinkler systems use wetting as their main mechanism, and therefore use very large amounts of water.

HI-FOG® uses water much more efficiently: it uses up to 90% less water than traditional sprinkler systems for the same application with equivalent or better performance.





HI-FOG® for industry and energy

Industry and energy sectors need to be sure fires do not disrupt business. HI-FOG® is a proven solution with reliability and performance that ensure business downtime due to fire is kept to an absolute minimum. As a water mist solution, it is safe for equipment, people, and the environment.

HI-FOG® suppresses fire using very small amounts of the world's most environmentally friendly fire-fighting agent – water. The system is made of high-quality materials for long system life, low maintenance and low electricity consumption.

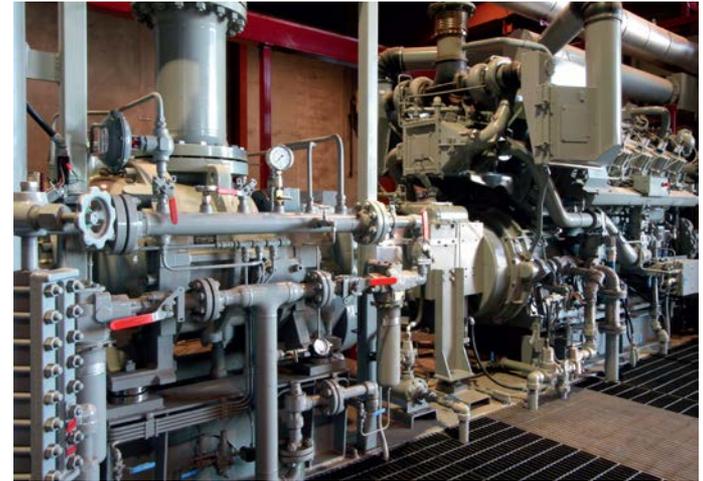
HI-FOG® is a flexible fire protection system that has been tested and approved for many types of spaces. HI-FOG® can be used for a wide variety of applications in the areas of:

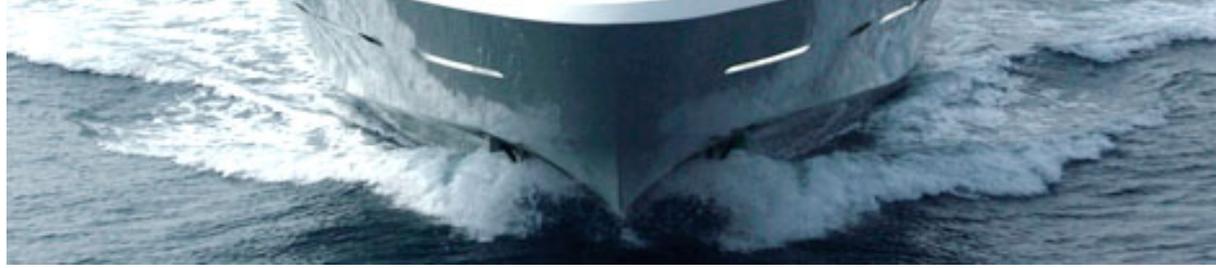
Power generation

Manufacturing

Food industry

Heavy industry





HI-FOG® for marine and offshore
Fire protection at sea is especially demanding. Many requirements are in place to ensure maritime operations remain safe from fire. With its history rooted in marine fire protection, HI-FOG® is well proven to meet those requirements.

Today HI-FOG® protects almost every cruise ship in the world. Through extensive research and development along with rigorous testing, the range of applications is wide.

HI-FOG® benefits for shipyard:

- Single supplier for all applications
- Single supplier for project execution and training
- Design and coordination cost savings
- Fire protection during construction
- Very experienced supplier

HI-FOG® benefits for ship owner:

- Training in one fire protection system
- One system to maintain
- One mimic panel for all applications
- Long lasting quality components
- Single point for after-sales support
- Sustainable solution

