

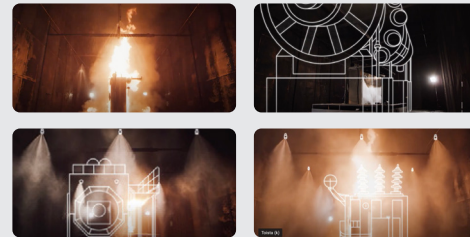
Marioff HI-FOG® total flooding systems.

Fire protection for Machinery spaces

Machinery spaces, such as turbine and generator enclosures, are very susceptible to fires due to the heat generated by the equipment and the presence of highly flammable liquids. A minor malfunction or leak in machinery spaces can quickly lead to fire. The HI-FOG total flooding systems are specially designed water mist fire protection solutions for spaces like these.

The larger the machinery space gets, the harder it is to seal it off, and the more time it takes to evacuate. The water mist can be discharged immediately when a fire is detected, without need for evacuation.

Total flooding systems are designed to protect the whole area from fire by discharging water mist through all the spray heads at the same time.



Watch videos



The FM Approved HI-FOG gas turbine and machinery space fire protection systems video series

These videos showcase the series of full-scale fire testing to obtain FM approval on heavy-duty gas turbines and large machinery spaces fire protection using the HI-FOG high-pressure water mist system.

These videos also go behind the scenes with Marioff's fire test personnel and illustrate the applications such as turbines, generators and transformers in the test enclosure.

The HI-FOG total flooding system for different spaces

- Gas turbines
- Diesel generators
- Steam turbines
- Transformers
- Oil pumps
- Compressors

Key benefits of the HI-FOG system:

- Activates fast and suppresses fire effectively, reducing the potential damage fire can cause
- Water mist is safe for people and the equipment
- Prevents fire from reigniting by effective cooling
- Proven performance in type approval tests and real fires



Standards and regulations compliant

The HI-FOG system is compliant with the relevant land based requirements and the latest International Maritime Organization (IMO) regulations.

- The Factory Mutual (FM) standards give special consideration to gas turbines, machinery spaces and special hazard machinery spaces.
- In Europe, a recognized approval body is VdS Schadenverhütung GmbH (VdS).
- Machinery space total flooding systems for marine applications are regulated by IMO and approved by various classification societies.



The different HI-FOG systems are certified for spaces of different sizes

	FM (Land)	VdS (Land)	IMO (Marine)
MAU	≤ 260 m ³	≤ 260 m ³	
GPU	≤ 1500 m ³	≤ 1375 m ³	≤ 1500 m ³
MT4	≤ 2300 m ³	≤ 1375 m ³	≤ 6600 m ³

The HI-FOG machinery space accumulator unit (MAU) and gas-driven pump unit (GPU) are approved by FM and VdS.

The HI-FOG MT4 system is powered by HI-FOG electric pump units and approved by independent third-party approval bodies.

The HI-FOG system with an electric pump unit has received an extended FM Approval to provide fire protection for combustion turbines and machinery with enclosures up to 2300m³.

Marioff is a leading developer of water mist fire protection technology and supplies system solutions worldwide. The company's innovative HI-FOG water mist fire protection system controls and suppresses fire using significantly less water than conventional sprinkler systems, reducing water damage, cleanup time and operational downtime. For more information, visit www.marioff.com.



Fire | Gas | Valves | Pumps

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