HI-FOG®
water mist fire protection

Protecting machinery spaces from fire

HI-FOG® total flooding systems

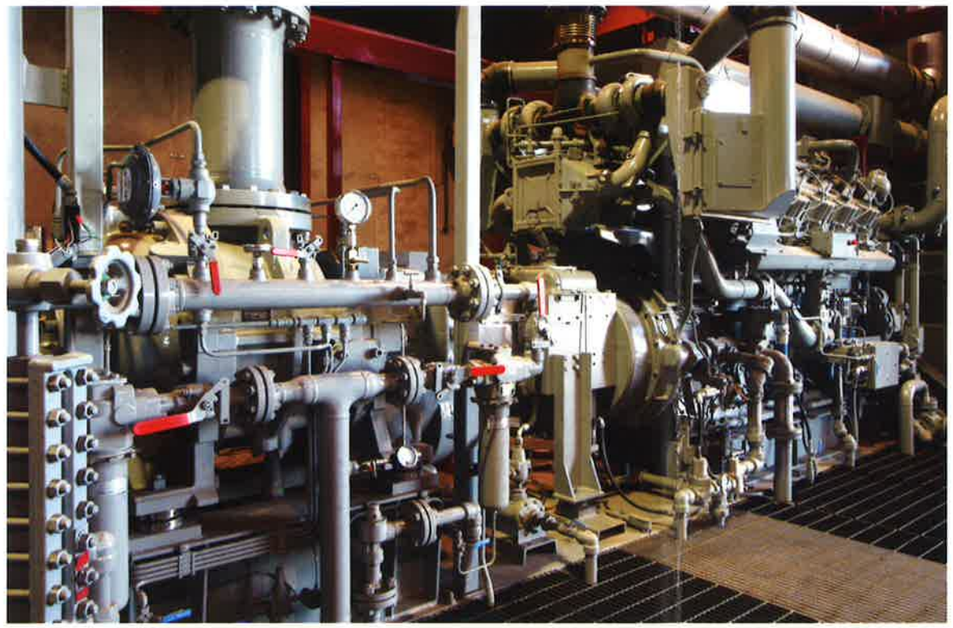


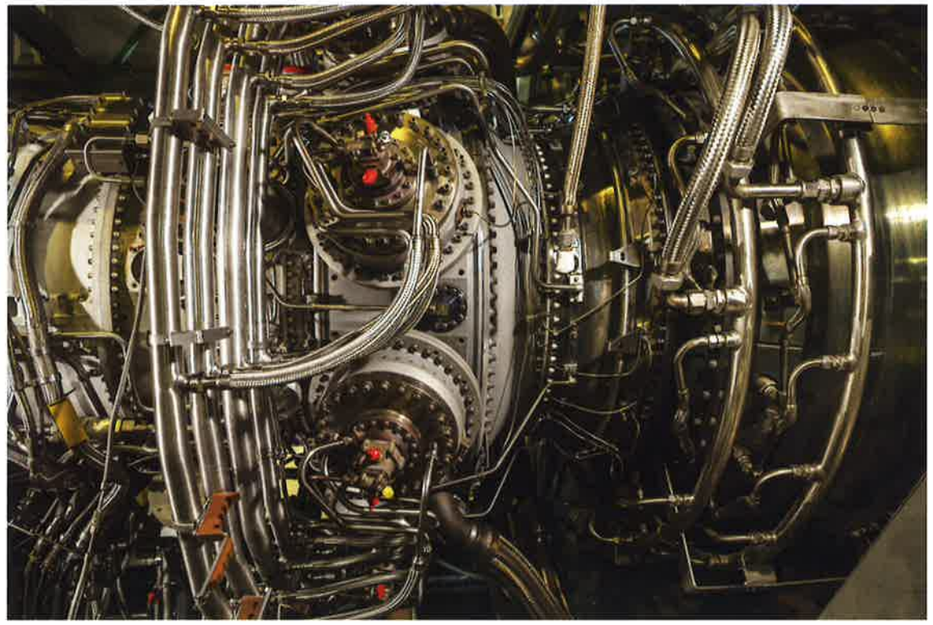
MARIOFF
United Technologies

Top performance against tough fires

Machinery spaces, such as turbine and generator enclosures are very susceptible to fires due to the heat generated by the equipment and highly flammable liquids. A minor malfunction or leak in machinery spaces can quickly turn into a serious fire.

The size of the machinery spaces is increasing. The larger the machinery space gets, the harder it is to seal it off, and the more time it takes to evacuate. HI-FOG® high pressure water mist is ideal fire protection solution for the machinery spaces as it can be activated immediately the moment a fire is detected while being entirely safe for people.





HI-FOG® total flooding systems protect many types of hazards:

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

HI-FOG®
water mist fire protection

How HI-FOG® fights fire?
High pressure water mist technology delivers some of the best fire fighting performance available today, making it ideal for challenging applications such as machinery spaces.

HI-FOG® water mist fights fire using three main mechanisms: cooling the fire itself and the air surrounding it, blocking the radiant heat, and starving the fire of oxygen.



Don't wait, activate!
One of the major benefits of HI-FOG® system is that it can be activated immediately the moment a fire is detected, when fire is still in its infancy. This reduces the potential damage fire can cause.

The pure water mist of HI-FOG® is equally valuable in terms of personnel safety. It poses no danger to people; a false alarm and discharge is merely a nuisance, not a health hazard.

The third significant benefit of HI-FOG® in machinery spaces is its cooling effect. HI-FOG® discharges a very fine water mist as a high-pressure fog, which as such blocks radiant heat and absorbs heat efficiently through evaporation.

Standards and regulations compliant
HI-FOG® 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.

	FM (Land)	VdS (Land)	IMO (Marine)
MAU	≤ 260 m³	≤ 260 m³	
GPU	≤ 1500 m³	≤ 1375 m³	≤ 1500 m³
MT4	≤ 1375 m³	≤ 1375 m³	≤ 6600 m³

Different HI-FOG® systems are certified for different -sized spaces.

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

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

HI-FOG® key benefits:

- **Fast:** immediate activation
- **Safe:** harmless to people and the equipment
- **Cooling:** prevents fire from reigniting
- **Proven:** success in countless type approval tests and real fires

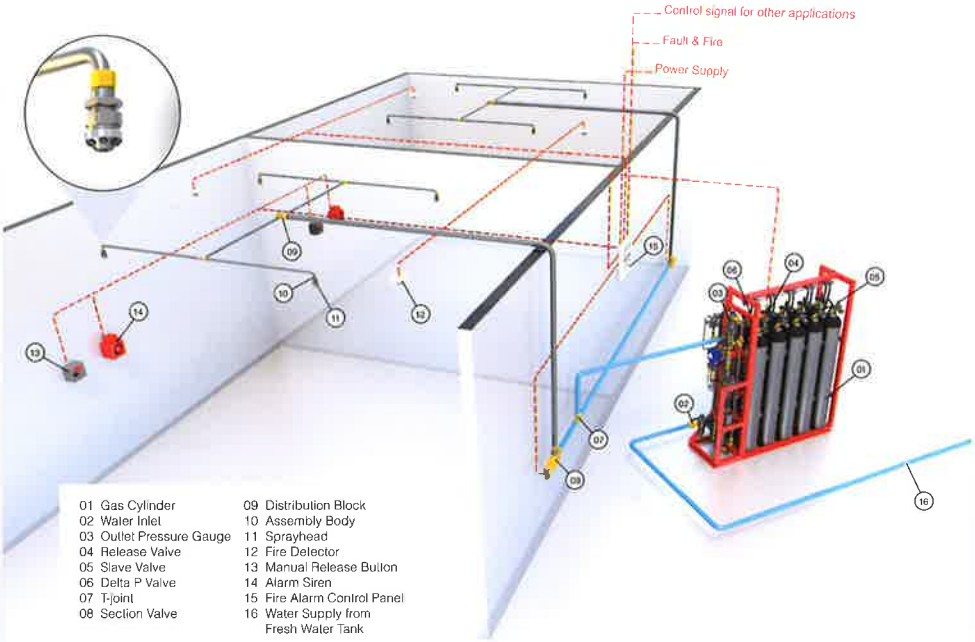
VdS

FM APPROVED





HI-FOG® Spray Heads





HI-FOG® Machinery Space Section Valve



HI-FOG® Machinery Space Accumulator Unit (MAU)



HI-FOG® Gas-driven Pump Unit (GPU)



HI-FOG® Electric Pump Unit (EPU)

Marioff Corporation Oy
Äyritie 24
01511 Vantaa, Finland
+358 (0)10 6880 000
marioff.com

Information on Marioff group companies, agents/distributors and references can be found at **www.marioff.com**.

Marioff Corporation Oy reserves the right to change or modify the information given in this brochure, including technical details, without notice. HI-FOG® and Marioff® are registered trademarks of Marioff Corporation Oy. Marioff is a part of UTC Climate, Controls & Security, a unit of United Technologies Corp. (NYSE:UTX).

All rights reserved. Reproduction of any part of this document without the express written permission of Marioff Corporation Oy is prohibited. Ref. 2342D-EN © Marioff Corporation Oy 2016

MarioffHIFOG