

Marioff HI-FOG® high-pressure  
water mist fire suppression.

## **Fire protection for the Food industry**

# Fast-acting fire suppression for oil cookers and industrial ovens

*The unique fire hazards in the food industry presented by industrial oil cookers, high temperatures and flammable oils require a tested and effective fire suppression system.*

The HI-FOG water mist fire suppression system brings industrial fryer fires under control quickly without contaminating the oil or the food, and brings peace of mind to your operations.

After completing a series of fire tests, the HI-FOG system, utilizing an electric-powered pump, is FM approved for the protection of industrial cookers.

The high-pressure system components are food-grade and use small amounts of clean, potable water to suppress fire with a fine water mist discharge. The water mist penetrates the fire, blocks radiant heat and cools the oil below its auto-ignition temperature. This facilitates a quick return to normal business operations.

## HI-FOG provides fire protection for:

- Oil cookers
- Fines boxes
- Takeout conveyors
- Vertical exhaust ducts



## Benefits of the HI-FOG fire protection system

With Marioff, not only do you get a high-quality fire protection system, but also a complete end-to-end solution with professional support every step of the way, from design and turnkey deliveries to upgrades.

The HI-FOG system offers four main benefits:

### Safe for personnel

The system uses pure water, so it is always safe for people and the environment. Your employees can focus confidently on the tasks at hand.

### Minimal downtime

HI-FOG controls and suppresses fire by discharging a fine water mist at high velocity, causing significantly less water damage than conventional sprinkler systems.

### Flexible system design

A single electric pump unit can protect multiple fryers and ovens. As a result, the system can easily be modified to cover new equipment and adapt to floor plan changes as your business grows.

### Proven performance

After completing a series of fire tests, Marioff's HI-FOG system, utilizing an electric-powered pump, is FM approved for the protection of industrial cookers.

# A flexible and effective solution

Compact and lightweight, the HI-FOG system requires little space for installation. With its low water consumption and high quality, food-grade components, the HI-FOG system is an economical, high-performance fire protection system.

The HI-FOG system can be configured to provide protection for oil cookers, fines boxes, takeout conveyors, and vertical exhaust ducts.

Pouring water on burning oil or fuel can spread the fire, since oil floats on water. The HI-FOG system reduces overflow risk because of its small droplet sizes and effective steam dispersion.

The HI-FOG systems for the food industry can be installed in a wide variety of configurations based on project-specific requirements, with a single electric pump unit protecting multiple fryers. As a result, the system can easily be modified to cover new fryers and adapt to floor plan or layout changes.

*The HI-FOG system for industrial fryers has specially-selected components that comply with food industry standards; the piping components are AISI 316 stainless steel with food-grade seals.*





## FM approved

With thousands of full-scale fire tests, the HI-FOG water mist fire protection system is the world's most tested high-pressure water mist system.

As a result of an FM-supervised fire test series, including oil cookers with different lengths and with hoods both in the lower cooking and upper maintenance positions, the Marioff HI-FOG system with electric-powered pump is FM approved for the protection of industrial cookers. The FM approved HI-FOG system is scalable and adaptable for a large range of oil cookers.



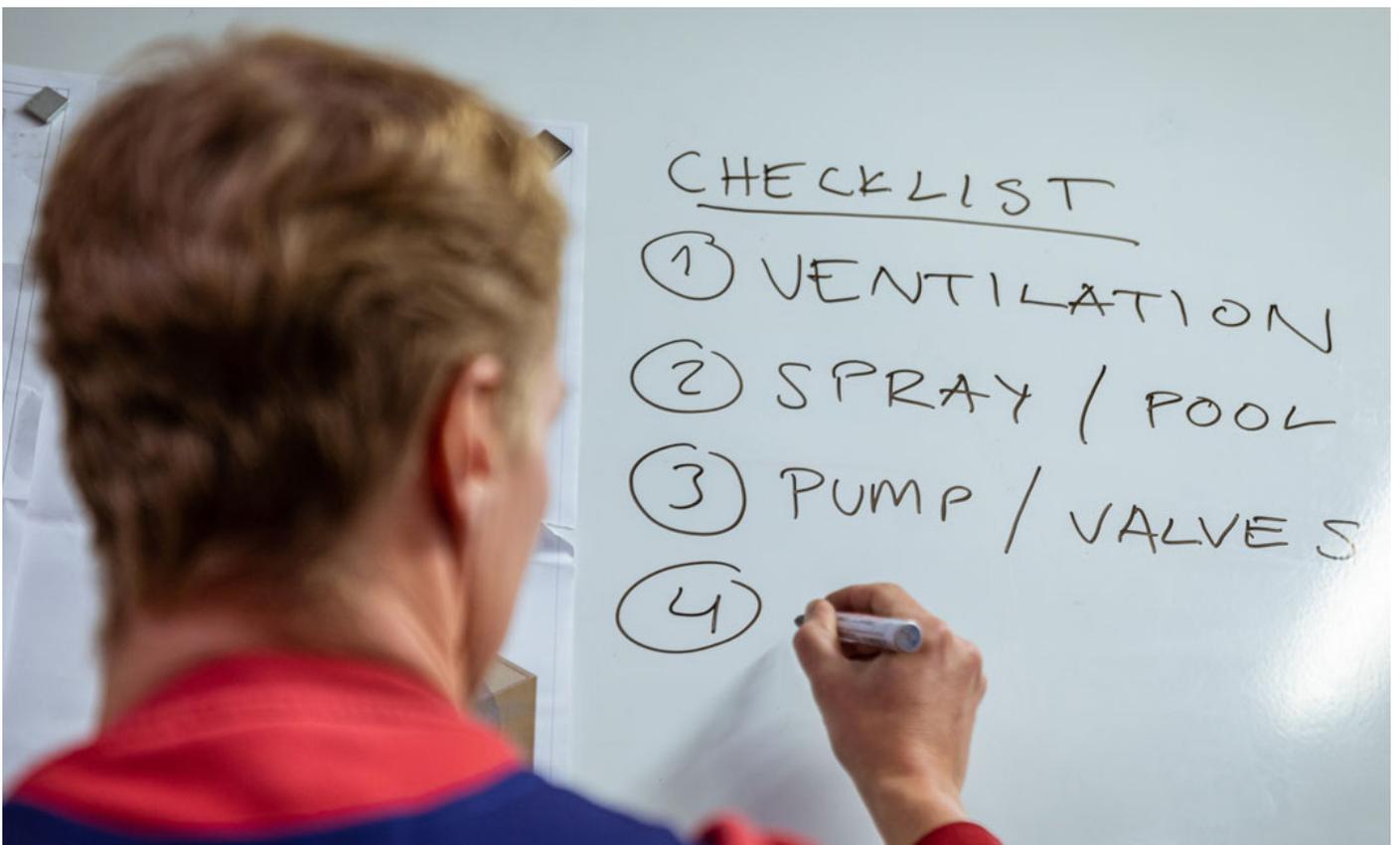
# Your safety is our expertise

As the pioneer of water mist fire protection technology, Marioff has unrivalled experience in installing fire protection systems for buildings both new and old.

Today, the HI-FOG systems protect food processes all over the world. Each installation benefits from the know-how Marioff has gained from thousands of installations on land and at sea.

We have the expertise to design and manage large and complex fire protection systems worldwide. Our solutions can be installed in even the most challenging areas in your buildings and processes.

Thousands of full-scale fire safety tests performed on our products ensure that the performance of the HI-FOG systems is top-quality.





## For conveyor belt ovens

The cooling capabilities of the HI-FOG system also makes it an ideal technology to protect your industrial conveyor ovens, which are another major fire hazard in the food industry.

## Lifetime support

Marioff-certified service engineers help you to maintain your HI-FOG system and to operate it economically – from commissioning to upgrades and extensions. They train, operate and maintain HI-FOG systems according to applicable FM and VdS Approvals, NFPA Standards and local requirements. Your personnel can also get custom-made training programs to deepen and refresh their knowledge of the system.

Every hour of every day, our dedicated service call center reacts promptly to your needs and provides quick action. As the original manufacturer of core HI-FOG components, we offer an extensive spare parts availability. Our strategically-placed and well-stocked service hubs make it possible for us to deliver spare parts fast.

**We are at your service all over the world.**

*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](http://www.marioff.com).*

# Marioff

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