



High-pressure  
water mist fire protection



[www.ultrafog.com](http://www.ultrafog.com)



# Delivering fire protection solutions for marine and offshore facilities



Protecting an offshore platform, rig or vessel as well as their occupants and contents from fire is paramount.

All the works performed on oil and gas drilling rigs are characterized by major fire and explosion risks. The jeopardies increase when crude oils, chemical products, and sophisticated machinery are concentrated in a limited space.

A potential fire breakout can start quickly, sometimes without any warnings, making prevention almost impossible.

Ultra Fog's high-pressure water mist system is particularly suited to offshore applications, providing efficient, quick release fire protection using potable water. We offer custom made solutions and state of the art engineering ideas for marine environments because every platform is unique. Stainless steel pipes and fittings, explosion-proof components, reduced system weight and dimension together with our patented and approved nozzles will ensure the staff and the platform maximum safety levels.



## Ultra Fog Nozzles

The highly engineered nozzles are designed and assembled with few components to ensure high operational reliability, minimizing energy loss which translates to a very efficient nozzle that delivers excellent performance; both ceiling and wall mounted versions of the nozzles are available, depending on the type of application. Installation is easy.



The Ultra Fog pump station delivers clean water to the nozzles with a system pressure between 60 to 140 bar

## Facts

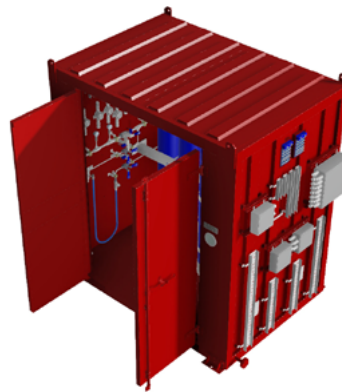
- 🔸 Droplet size: from 10 microns up to 200 microns
- 🔸 Water consumption: 85-90% less compared to a conventional system
- 🔸 1,700 litres of water vapour will be produced for each litre of water





ULTRA FOG  
NOZZLE

ULTRA FOG  
ACCUMULATORS



ULTRA FOG  
MODULAR  
ACCUMULATOR  
UNIT





A large offshore oil platform is shown at night, illuminated by numerous yellow lights. The platform features several tall, blue and white striped smokestacks. A complex network of pipes, walkways, and structural steel is visible. In the foreground, a long, illuminated walkway with a metal railing extends from the bottom right towards the platform. The background shows a dark blue sky with scattered clouds and the dark ocean surface.

GAS TURBINE  
ENCLOSURE



## One of the most reliable water mist systems available for offshore and marine applications

Ultra Fog offshore and marine fire suppression systems are designed to save lives and property. Therefore it is extremely important that the systems work efficiently with a high degree of reliability. Our objective is to design, deliver and install systems of the highest possible quality, best possible functionality and provide service that exceeds expectations.



Ultra Fog Accumulators



Micro pump unit and MPU 335 system with a dedicated enclosure



Ultra Fog Modular accumulator unit fire fighting skid





## Features & Benefits

- Major cooling effect when the water droplets transform into vapour.
- Very high extinguishing effect relative to amount of water. Less damage to equipment and faster restoration.
- Heat sensitive nozzles with low Response Time Index (RTI) – rapid, automatic response in the event of a fire.
- In the protected space the positive pressure is produced, which reduces the availability of new oxygen at the seat of the fire.
- Risk of flashover reduced.
- Reduced drainage requirements.
- Environmentally friendly and people safe – no toxins.
- Extremely lightweight – typically requires only 10-20% of the water storage compared to conventional systems.
- Small pipe dimensions and aesthetically considerate nozzle allow for a discrete system, resulting in an installation with no hot work required, meaning retrofits are simple.
- Custom designed solutions, engineered for low cost and efficiency.
- The ultimate, green extinguishing agent: WATER.



# Ultra Fog Classification Testing and Approvals

The Ultra Fog Water Mist System is rated as Class 1 according to the National Fire Protection Association Code (NFPA, USA). Basically it means that Ultra Fog has the smallest average droplet size, which ensures effective fire fighting performance.

- Ultra Fog's Water Mist System has been fire tested by the Swedish Test Laboratory (SP) and SINTEF - Norway and Danish Fire Laboratory (DFL) which are fully authorised by IMO, and the Southwest Research Institute (SwRI), United States.
- IMO Res. A.800(19) and IMO Res MSC 265(84) for accommodation areas, stores and service areas.
- IMO MSC/Circ.1165 and MSC/Circ.913, machinery areas, total flooding in pump rooms and local applications.
- FM5560 Turbine and Machinery in Enclosures.
- IMO MSC.1/Circ.1272 and IMO MSC.1/Circ.1430, protection of RoRo and special category spaces.
- IMO MSC.1/Circ.1268, protection of balconies.
- IMO MSC/Circ.1387, local applications.
- ISO 15371, for protection of galley cooking equipment (including deep fat fryers & galley hood).
- A performance Effectiveness Analysis was carried out by DNV, Norway.
- Component testing by the laboratory of UL, USA.

Since 1990, Ultra Fog has been committed to a continuous programme of product development and fire testing in response to the latest rules, regulations, and standards around the world. Ultra Fog products are 3rd party tested and approved, in accordance with internationally recognised test protocols.

## Ultra Fog | Sweden

Faktorvägen 17Q  
434 37 Kungsbacka  
**Telephone:** +46 (0)31 979 870

## Ultra Fog | Italy

Via Grecale, 33  
55049 Viareggio  
**Telephone:** +39 05 84390609

## Ultra Fog | Italy

Via Vincenzo Monti 52  
20017 Rho (Milano)  
**Telephone:** +39 02 09943101

## Ultra Fog | United Kingdom

5 Grain House, Mill Court  
Great Shelford  
Cambridgeshire CB22 5LD  
**Telephone:** +44 (0)1223 499180

## Ultra Fog | Monaco

57 rue Grimaldi Block C/D  
98000 Monte Carlo  
**Email:** service@ultrafog.com  
**Telephone:** +377 99901481

## Ultra Fog | United States

3380 SW 11th Avenue  
Fort Lauderdale FL 33315  
**Email:** salesusa@ultrafog.com  
**Telephone:** +1 (954) 581-6996



info@ultrafog.com



www.ultrafog.com



www.linkedin.com/company/ultra-fog



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