

Offshore Fire Protection

Save Lives
Reduce Damage



High pressure
water fog sprinkler
systems for fighting fires



www.ultrafog.com

Delivering fire protection solutions for Marine and Offshore facilities

Ultra Fog fire Extinguishing System | Reliable and efficient | Environmentally friendly and safe



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

Ultra Fog specialises in delivering high pressure water fog sprinkler systems for fire protection across a wide range of hazards in the marine industry.

The **Ultra Fog** system was originally designed and developed for marine use, where the demands for effective fire suppression are extremely high. Safety for life at sea is a priority in all offshore environments. **Ultra Fog** systems use safe, environmentally friendly CLEAN water as the suppressant agent in offshore rigs and platforms, ships, production vessels, as well as offshore support and commercial vessels.

The Ultra Fog system can be connected to various different forms of detection equipment for early fire detection and immediate activation. Together, fast response with low water consumption saves valuable structures their occupants and property.

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, installation is easy.

Facts

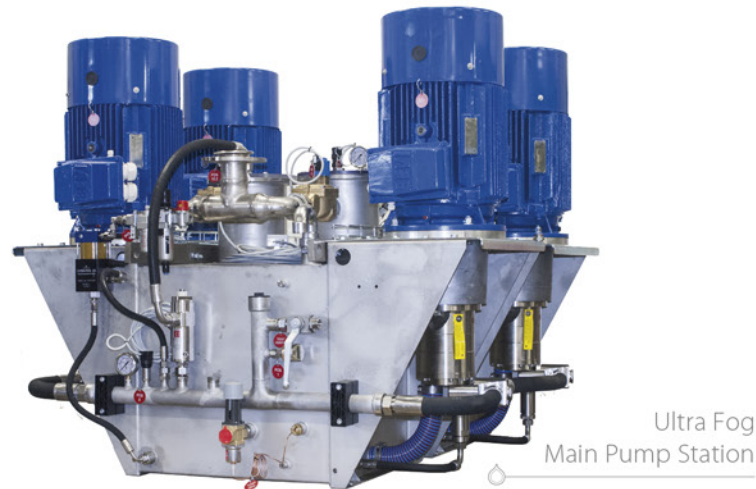
- Droplet size: from 10 microns up to 200 microns
- Water consumption: 85-90% less compared to a conventional system
- 1,700 litres of water vapour will be produced for each litre of water
- Coverage up to 48m² from each sprinkler head **Ultra Fog** Nozzles

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



High pressure water fog sprinkler system for effective fire fighting in:

Machinery spaces | Engine rooms | Thruster Rooms | Control Rooms | Accommodation spaces | Turbine Enclosures | Galleys | Deep Fat Fryers and ducts | Paint lockers



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

Ultra Fog 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



Ultra Fog
Plug and Play
accumulator unit
fire fighting skid

Why choose Ultra Fog?

- 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
- Fast extinguishing – fast automatic sprinklers with low RTI value or by detectors
- Rarefied oxygen in the fire zone, through water fog
- Over-pressure is produced in the space, which prevents new oxygen from joining fire
- Risk of flashover reduced to zero
- Reduced drain dimensions
- Environmentally friendly and people safe – no toxins
- Extremely lightweight - requires only 10% of the water storage compared to conventional systems
- Small pipe dimensions and aesthetically considerate nozzle allow for a discreet system, resulting in an installation with no hot work required, meaning retrofits are simple
- Custom designed solutions, engineered for cost and efficiency
- The ultimate green agent: WATER is the extinguishing agent



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Ultra Fog Classification | Testing and Approvals

The **Ultra Fog Water Fog 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 Fog System has been fire tested by the Swedish Test Laboratory (SP) and SINTEF, Norway, both of which are fully authorised by IMO, and the Southwest Research Institute (SwRI), United States.
- Ultra Fog has been tested and approved according to the IMO Res. A.800(19) and IMO Res MSC 265(84) for accommodation areas, stores and service areas.
- IMO MSC/Circ. 847, activation by detectors as an alternative to the glass bulb.
- IMO MSC/Circ. 1165 and MSC/Circ. 913, machinery areas, total flooding in pump rooms and local applications.
- FM5560 Turbine and Machinery in Enclosures.
- ISO 15371, for protection of galley cooking equipment (including deep fat fryers).
- A performance Effectiveness Analysis was carried out by DNV, Norway.
- Component testing by the laboratory of UL, USA.

Our test procedures began in 1992 and are constantly being renewed in order to include new fire protection applications, new standards and regulations, and improved nozzle performance.

Ultra Fog | United States

343-B Granary Road
MD 21050 Forest Hill
USA

Telephone: +1 410 838 7645

Ultra Fog | Sweden

Backa Strandgata 18
S-422 46 Hisings Backa
Sweden

Telephone: +46 (0)31 979 870

Ultra Fog | United Kingdom

16 South Cambridge Business Park
Babraham Road, Sawston
Cambridge CB22 3JH
United Kingdom

Telephone: +44 (0)1223 499180

Ultra Fog | Italy

Via Grecale 33
55049 Viareggio (LU)
Italy

Telephone: +39 0584 390609

Email: info@ultrafog.com

Website: www.ultrafog.com



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