



Aircraft Hangars
Save Lives
Reduce Damage



High-pressure
water mist fire protection



www.ultrafog.com

Delivering fire protection solutions for aircraft hangars



Protecting a building, its occupants and contents from fire is paramount.

Ultra Fog specialises in delivering high-pressure water mist system for fire protection across a wide range of buildings and industry. This high-performance product line results from a continuous research and development programme, quality-controlled manufacturing, extensive certification, and type approvals.

The Ultra Fog system installed for use on land, achieves a highly reliable and efficient fire extinction system which works well in sensitive and valuable environments. The system can be connected to the various forms of surveillance for early fire detection and immediate activation. Together, fast response with low water consumption saves valuable buildings, occupants and property.



Aircraft Hangars

Ultra Fog has supplied the Fire Protection System for a helicopter hangar for the Swedish Air Force in Linköping. The protection system follows a IMO MSC Circ 1165 with additional pop-up nozzles designed specifically for installation in concrete flooring with the aim of protecting aircraft fuselage from beneath. The system has a zone activation control,

where the hangar has been divided in various sections which individually have total coverage from the ceiling and the flooring thanks to the additional pop-up nozzles. These are strategically placed in order not to intrude with the helicopters' designated parking positions.

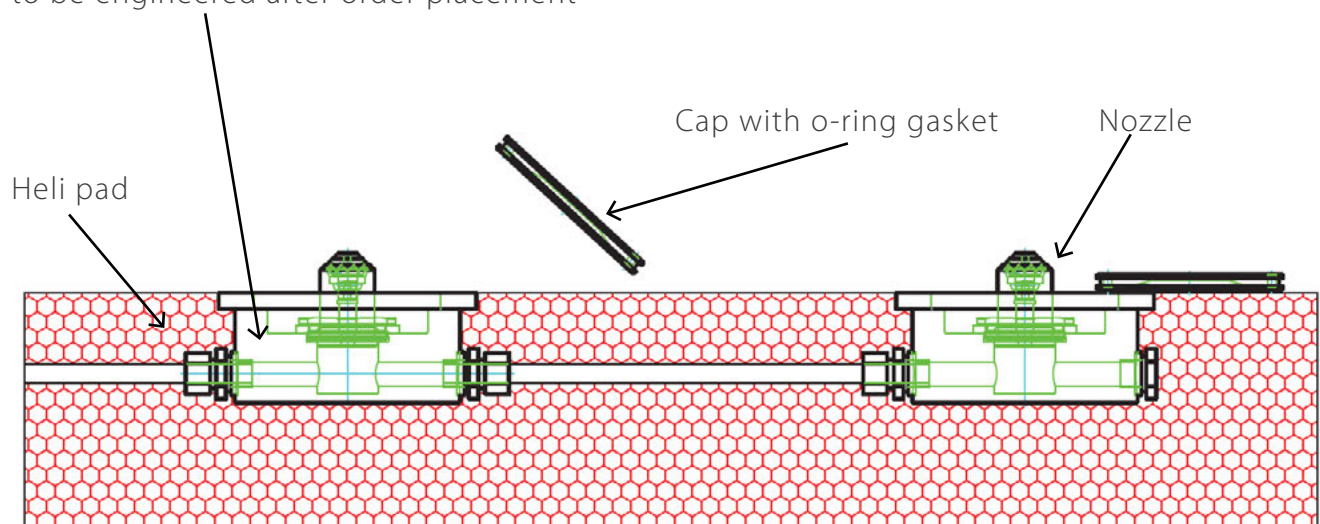


The system has been set up with nine (9) P-230 high-pressure pumps which supply 1300 L/min at 100 Bar. A separate Diesel fueled generator was included to the system as well as installation and commissioning.

Functions

Water pressure will lift up nozzles with great power and the cap will be removed from the body. A triggered nozzle is to be reintegrated by pushing the nozzle and the cap back to their original position.

Interface between nozzle & heli pad to be engineered after order placement





Less damage to protected equipment - faster return to normal activity

An aircraft hangars fire can result in unwanted downtime or even destruction of the equipment. Our system minimises negative results of an aircraft hangar fire and reduces the risk of long downtime if the fire occurs.

One of the most reliable water fog systems on the market

The aim of the fire extinction system is to save lives and property. Therefore it is extremely important that the system works smoothly. Our ambition is to design, deliver and install systems and service of the highest possible quality and best possible functionality.



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
- Fast extinguishing - fast automatic sprinklers with low RTI value or by detectors
- Rarefied oxygen in the fire zone, through water mist
- Over-pressure is produced in the space, which prevents new oxygen from joining fire
- Risk of flashover reduced to zero
- Reduced drain and scupper dimensions. The amount of dirty extinguished water will be kept to a minimum
- 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



System for total protection of large and small hangar includes a spray head on ceiling and from floor with use of Pop Up nozzle. System is designed after full scale test in according to IMO MSC / Circ. 1165 and IMO MSC/Circ.1387

The Ultra Fog Drop Size is rated as Class 1 according to the National Fire Protection Association Code (NFPA, USA), which ensure effective firefighting performance.

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.

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