

A photograph of a hospital room, dimly lit. In the foreground on the left is a wheelchair. In the center is a hospital bed with blue linens. To the right is a medical cart with various equipment. The background shows white walls and a door.

Hospitals and Nursing Home
Save Lives
Reduce Damage



High-pressure
water mist fire protection



www.ultrafog.com

Delivering fire protection solutions for hospitals and nursing homes



Protecting a building, its 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 buildings and industry.

The Ultra Fog system was originally designed and developed for marine use, where the demands for effective fire extinction are extremely high. When installed for use on land, it achieves a highly reliable and efficient fire extinction system which works well in sensitive and valuable environments. The Ultra Fog system can be connected to various different forms of surveillance for early fire detection and immediate activation. Together, fast response with low water consumption saves valuable buildings, occupants and property.



Hospitals

Safety of patients, staff and hospital expensive equipment is a top priority: Ultra Fog's innovative uses minimum quantities pure water to rapidly control, suppress and extinguish fire.

It is therefore safe and can be discharged without the need to evacuate patients and staff beforehand. The system uses a fraction of the water needed by a conventional sprinkler system which avoids the need to stock expensive and wasteful tanks of water, and which minimises clean up and downtime post fire event. The use of fresh water supply reduces the risk of microbes and other bacteria building up in the pipework (e.g. legionnaire's or other common hospital bacteria), which is an important consideration in a hospital environment. Tests have proven that Ultra Fog watermist technology will extinguish fire faster and with less damage to equipment and assets than a traditional sprinkler system. Each system is specifically engineered according to customer's requirements. Increased nozzle spacing and small piping dimensions passes a significant installation cost saving to the customer which places Ultra Fog at the top of its class in terms of value for money and lifetime system maintenance.

Nursing homes

Every year there are about 400 fires in nursing homes and other health care facilities in Sweden. These cause an average of 5 people death per year and between 40-70 people are injured. Almost all the fires would not have consequences if the accommodation was equipped with a sprinkler system.

Thanks to the low space requirement our sprinkler solution is easy to install even in existing buildings. Generally, the residents do not have to move during the time in which the installation is performed, this avoids the inconvenience of having to transfer people and ensuring the tranquility of their living environment. The risk of false alarms is very limited since the system does not need any fire detectors. In fact every nozzle is provided with an automatic glass bulb which only breaks if in presence of fire source. The system can also be connected to a SOS alarm, or to existing emergency procedures.



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 from each litre of water
- 🍷 Coverage up to 48m² from each sprinkler head

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



Fire Testing, Type Approvals and compliance:

Ultra Fog's Water Mist System has been fire tested by the Swedish Test Laboratory (SP), SINTEF - Norway and Danish Fire Laboratory (DFL), and the Southwest Research Institute (SwRI) and Baltic Fire Laboratory (BFL).

- FM5560 Non-Storage Occupancies, HC-1, Part 4 EN14972
- FM5560 Turbine and Machinery in Enclosures, Part 14 and 15 EN14972
- Part 3 EN14972 OH1
- Part 10 EN14972 Annex A OH4
- Part 2 EN14972 Annex A OH3
- Part 5 EN14972 Annex A OH2
- Part 7 & 17 EN14972 Annex A, Residential Water Mist Systems
 - BS 8458 – Domestic and Residential Water Mist Systems
 - BS 8489 – Commercial and Industrial Water Mist Systems
 - NFPA 750
- Archive / Library CEN TS 14972 Annex B, ref. fire report BFL2020/TP02/001 and BFL2020/TP02/009
- Part 12 EN14972, Fat Fryer & Galley Hood
- Component testing by the laboratory of UL and FM
- Tunnel: Uptun, Aplus guideline full scale fire test.
- Vehicle / Diesel Train: Regulation No. 107, Revision 7, Annex 13; Train test specification ALn663

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. 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.

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