



Marine Fire Protection  
Save Lives  
Reduce Damage



High-pressure  
water mist fire protection



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

# Delivering fire protection solutions for marine vessels

Ultra Fog fire protection system can be integrated into almost all categories of marine vessels, including Special Purpose Vessels, High-Speed Crafts, Special Crafts, Passenger Vessels, Cargo, Tankers, Pleasure Crafts, Military Ops, Fishing Vessels, and others.



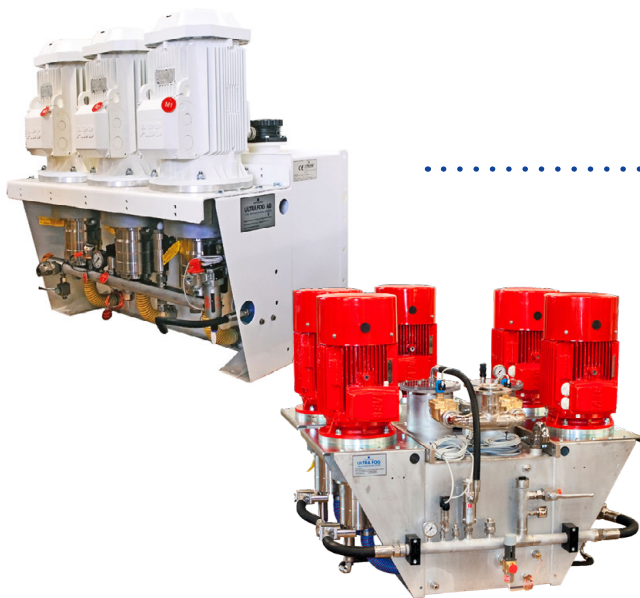
The system uses a reduced quantity of water. It has an unlimited discharge time, enabling the vessel to cope effectively even with the most severe fire event. Also, the water use is non-toxic and can be safely discharged without the need to evacuate passengers and crew.

A single nozzle can protect up to 48m<sup>2</sup>. This wider spacing passes on a considerable saving to the customer in reducing the cost and time required for system installation. As a turnkey solution, Ultra Fog has emerged as 'Best in Class' in terms of price, quality, and water/power consumption requirements.

All marine fire suppression systems are rigorously tested and approved according to IMO rules, and follow a Class Register inspected routine annual maintenance program to satisfy legal requirements. In response to increased stringency in Class requirements for system maintenance and inspection, Ultra Fog has also developed a Nozzle Tool which facilitates and encourages onboard crew to ensure that their water mist system remains fully functional throughout its lifetime.

## Ultra Fog Nozzles .....

We have a unique range of fog nozzles developed for a variety of applications. Its simple design, using minimal components ensures high operational reliability and minimizes power loss which means that the energy can be maximized in the nozzle to create the water mist. With ceiling and wall mounted versions available, installation is easy.



.....> The Ultra Fog pump stations deliver 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
- Coverage up to 48m<sup>2</sup> from each sprinkler head

Master pump unit  
(8 x PAH80)

Filters

Pilot pump

FRESH  
WATER  
TANK

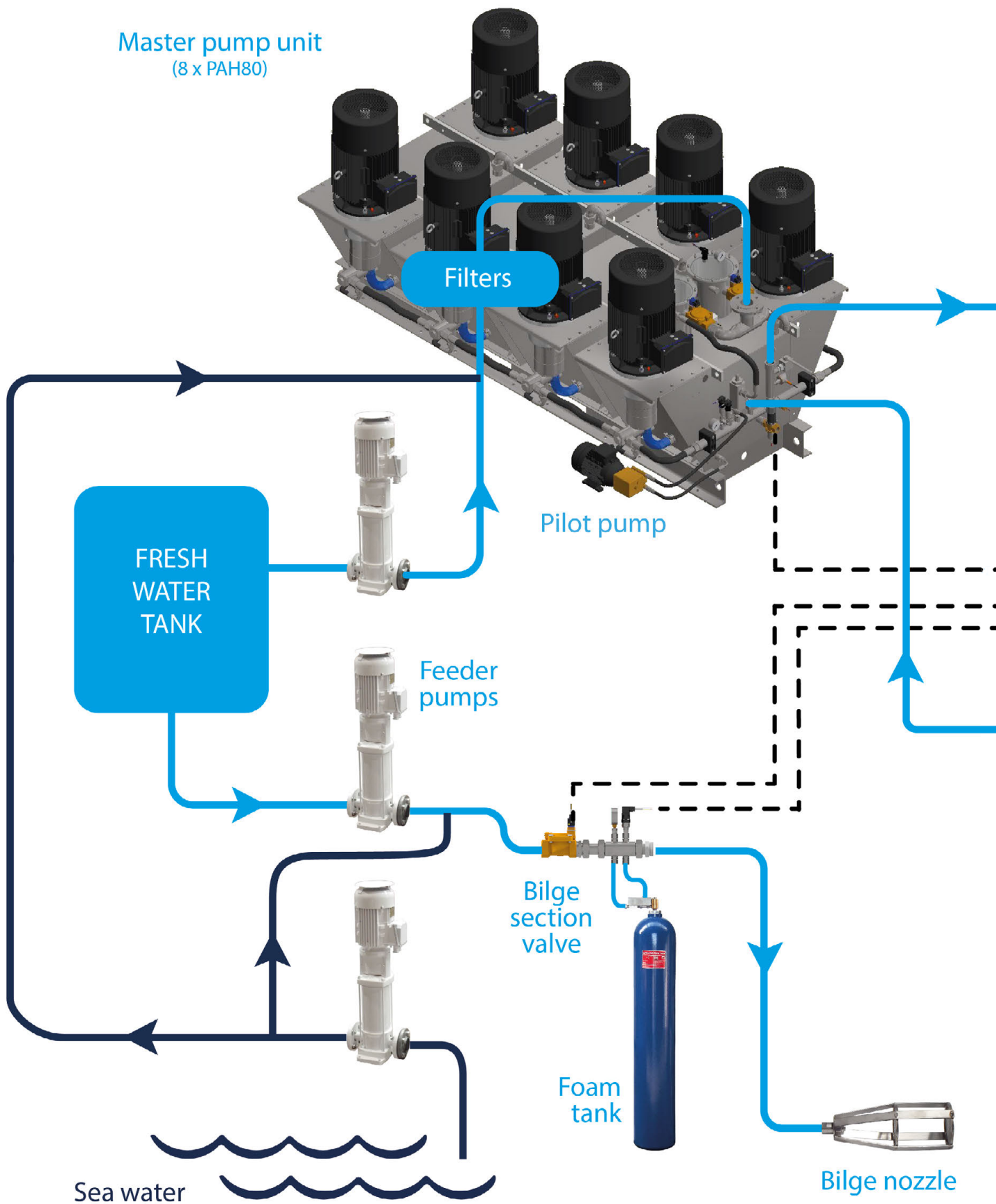
Feeder  
pumps

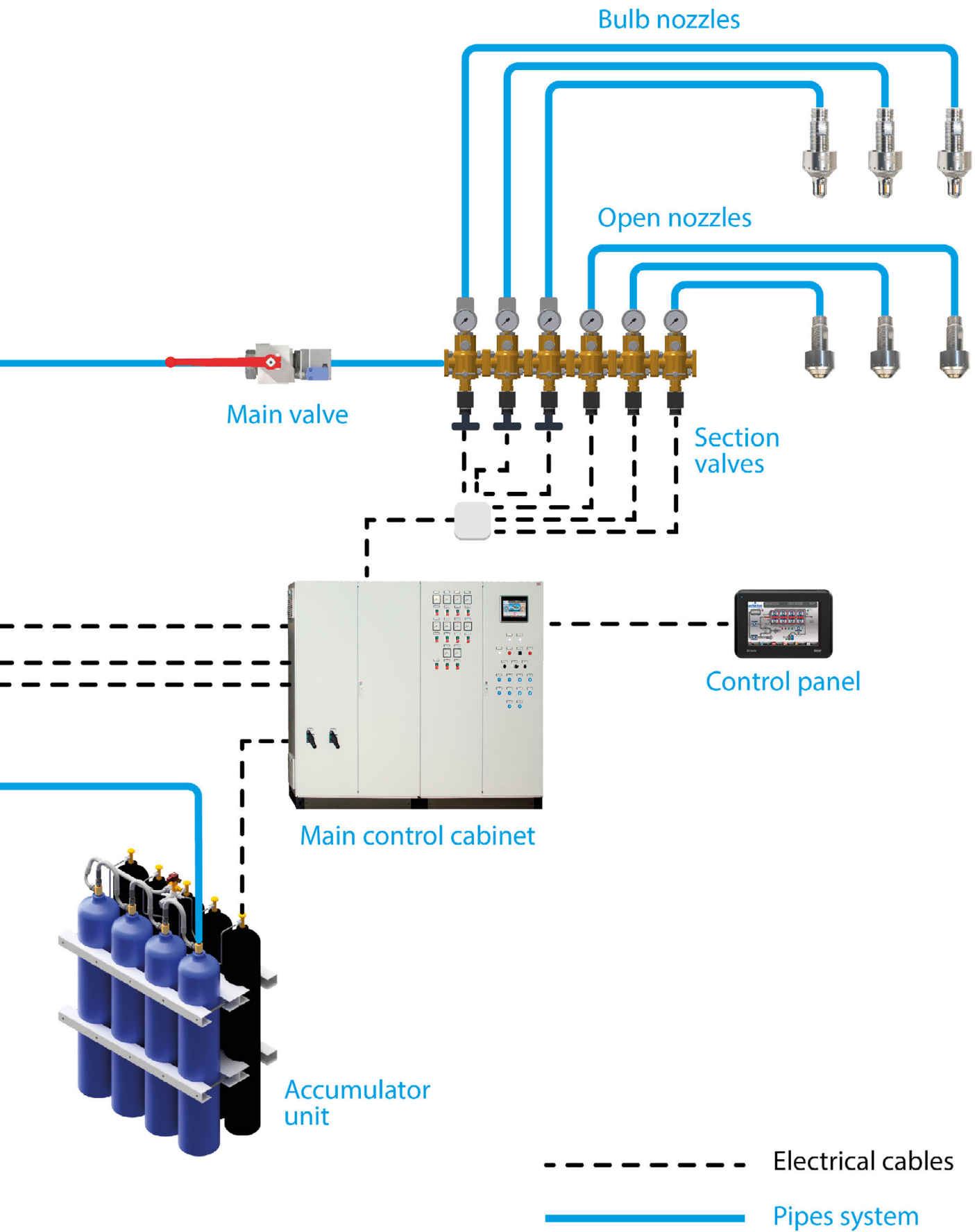
Bilge  
section  
valve

Foam  
tank

Bilge nozzle

Sea water







## Less damage to protected equipment - faster return to normal activity

Conventional low pressure water spray or sprinkler systems can cause considerable water damage, which is often higher than fire itself. Extinguishing fires with water mist is a superior method to most alternatives, due to its efficiency and cleanliness.

## One of the most reliable water fog systems on the market

The aim of the fire extinguishing system is to save lives and property. Therefore it is extremely important that it works correctly. Our ambition is to design, produce, deliver, install and service the system of the highest quality to ensure best functionality as well as reliability.



## 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.
- Reduced oxygen levels 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.
- At sea, stability problems are reduced.
- Reduced dirt dimensions. The amount of waste water will be kept to a minimum.
- Reliable, environmentally friendly and safe for people - 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 minimal hot work requirements, meaning retrofits are simple.
- Custom designed solutions, engineered for cost and efficiency.



# 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), 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.
- 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.

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