

# RAFT

SUPPRESSION

## Fire suppression systems

New build, Refit & Service



Water mist systems

# WATER MIST – FIRE SAFETY



Over the past few decades, water mist systems have been regarded as a fire suppression system of choice.

The piping systems are carefully calculated to meet both class and customer requirements. In low pressure water mist systems, water is forced through the nozzles, creating a fine water mist with cooling and heat-absorbing effect. The water damages are kept to a minimum, and a potential fire is put out immediately.

Our low pressure water mist system is designed with great capacity, considerably low power consumption and a small footprint.

## MACHINERY SPACES

Engine rooms are particularly vulnerable to fire, due to numerous of flammable materials and fire sources located in a relatively small area. Unless the fire is quickly put out, there is a high risk of it spreading and very fast disabling the vessel and threatening the lives of those on board.

A fixed water mist system provides a safe operation for ship's crew. System activation is done manually from release station outside the protected space or remotely from panels located in ECR or wheelhouse.

## TOTAL FLOODING & LOCAL PROTECTION

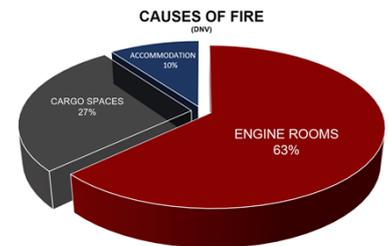
Machinery spaces of category A are protected against fire with a water mist Total flooding system. A local protection system with automatic release is installed above individual objects of high risk.

## ACCOMMODATION

A "wet pipe system" is installed in public spaces and accommodation areas. Each nozzle works automatically and independent, keeping the consequential water damages at a minimum.

## CAUSES OF FIRE

According to DNV, nearly 2/3 of the fires on ships have their source in the engine room. Fire-extinguishing systems are of great importance as a fire in engine rooms may disable the ship.



## TOTAL FLOODING

- Machinery spaces
- Battery room
- Emergency generator room
- Switchboard room
- Incinerator room
- Boiler room
- Storage room
- Garage
- Turbine room

## ACCOMMODATION

- Restaurant & Bar
- Business center & Lobby
- Corridor & stairway
- Storage & Laundry
- Garage
- Sauna
- Technical area
- Galley (DFF & Galley duct)

## LOCAL PROTECTION

- Main Engines
- Generators
- Emergency generators
- Incinerators
- Boilers
- Batteries

# LARGE VARIETY

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RAFT deliver complete fire suppression systems for a large variety of vessels. Ranging from super yachts, cruise vessels to battery hybrid ferries. We are helping our customers towards the green shift with extensions or stand-alone water mist systems for battery rooms. We perform service of fire suppression systems to ensure the operation is reliable and in excellent working condition.



## NEW BUILD

RAFT deliver approved fire suppression systems for new builds. Our team have experience from a wide range of fire suppression systems and we use our expertise in hydraulic design to optimize the system and keep the water consumption at minimum. We focus on solutions with high capacity and low power consumption. All systems are designed with great precision to deliver the best performance for all fire hazards.

## REFIT

RAFT perform refit projects and cooperate with reputable customers in a variety of segments. Large refit projects for cruise vessels, minor upgrades and extensions are some of our areas of expertise.

The aim for a greener future is resulting in a large number of battery conversions. Water mist is the most effective fire suppression system for these areas.

The refitted systems can in most cases reuse large parts of the already installed hardware.



## SERVICE & AFTERSALES

Fire suppression systems require regular maintenance through its lifetime to ensure a reliable system .

When performing service, we certify and ensure that the fire suppression system is in excellent working condition and operational when needed.

RAFT suppression is an approved service supplier with expertise in service of fire suppression systems.



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RAFT are a Norwegian engineering company, delivering approved fire suppression systems for new builds and perform refit for existing water mist systems.

Our team have experience from a wide range of fire suppression systems. We are certified as service supplier and provide spare parts for the aftersales market.

We focus on solutions with high capacity and low power consumption. All systems are designed with high precision to deliver the best performance for all fire hazards.

