

SHIPBUILDING

FIRE PROTECTION SPRINKLER SYSTEM



SPRINKLER SYSTEM



The special conditions at sea mean that safety is an incredibly important issue for ships. The aim is to prevent any danger to make sure everything runs smoothly on board. And the key safety issue for passenger ships is of course the people on board.

Ships are subject to a whole range of fire risks, which means fire protection on board has to be all the more effective. After all, in the event of a fire, it is not as easy to escape when at sea, and prompt fire-fighting assistance from outside cannot be counted on.

In case of a fire emergency, getting the right type of assistance at the right time is extremely important. Usually, the emergency response is delayed due to either accessibility issues or a lack of a proper plan. To overcome these issues, an automatic fire extinguishing system is required in all sensitive areas of a ship. Self-activating automatic fire sprinkler systems can be used to prevent the spread of fire and keep the situation under control.

The sprinkler system consists of a network of sprinkler heads located at dedicated areas, which need extra protection. The system is generally fixed in accommodation areas and machinery spaces. The sprinkler heads in both these places are not the same, but have certain differences in the equipment used and the method of operation.

Construction and working of sprinkler head

The sprinkler heads, especially in the accommodation areas can do both things – detect and extinguish fire. The sprinkler head is covered by a glass bulb, which contains an expandable liquid. A deflector plate is attached at the end of the bulb, which helps to spray the water over a large area. In the event of a fire, the heat causes the liquid inside the bulb to expand, which shatters the bulb, allowing the water to flow from the sprinkler head.

The water in the pipes is kept at a constant pressure. As soon as the sprinklers start operating the pressure in the pipe lines falls, a water pump starts automatically to provide a continuous supply of water.

SPRINKLER SYSTEM

Sprinkler Alarm System ACS-1



Arrangement

The complete installation is divided into sections consisting of a max. of 200 sprinkler heads per fire section. All sections have alarm valves, which provide both audible and visual signals when water flows through them. This helps in identifying which section of the ship is on fire. An automation system keeps track of all the sections and is located in the safety control room. The system operates until the sprinkler pump is shut off manually.

Service and spare parts

After completion, our range of services includes documentation, crew training and technical support. It also includes the necessary service inspections and delivery of all spare parts in OE quality. We are also happy to help you meet and implement all modification requirements.

WE DELIVER!



**FIRST STEPS
ARE ALWAYS WELCOME**

Knaack & Jahn
Schiffbau GmbH
Witternstraße 4a
21107 Hamburg/Germany

T +49 40 7812930
F +49 40 78129310

www.kj-marinesystems.com
www.k-j.de

info@kj-marinesystems.com

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