



**FireOff Systems**

# SHIPBUILDING

**LOW PRESSURE WATER MIST  
SYSTEM MS RIVER ALLEGRO**



## MOST CERTAINLY THE OPTIMUM SOLUTION



### When things get problematic

Everything is possible. And time is always of the essence. Even so, the conversion of the river cruise ship MS RIVER ALLEGRO was a far more difficult task.

In around 6 months, the former MS DRESDEN was completely refurbished with state-of-the-art technology by the new owner for over 2.5 million euros at the Norderwerft in Hamburg. This involved complying both with the highest safety standards as well as taking into account the special requirements of cruise passengers. A new sprinkler system should protect the complete ship, covering the living area, the technical facilities and the engine room.

True to the slogan “there’s room on the smallest deck”, Knaack & Jahn Schiffbau developed a tailor-made safety concept: The KJ FireOff Water Mist System comprises a total of 242 sprinkler nozzles in all relevant areas of the river cruise ship.

Where colour and appearance are concerned, the KJ FireOff Sprinkler Nozzles blend in with the interior so that they are hardly noticeable in the generous ambience of the public rooms as well as in all 48 outside cabins.

The advantages of the low pressure system are outstanding:

- 16 bar with low water flow rate 2.0 l/min/m<sup>2</sup>
- Highest safety standard
- Low weight
- Low power requirement (max. 20 kW)
- Reduced risk of nozzle clogging
- Operating with fresh and river water
- Careful extinguishing

### Small space - Large effect

The solution from Knaack & Jahn Schiffbau: The complete sprinkler control station was fitted in just 3 square meters (LxWxH: 2.5 x 1.3 x 2.0 m).

Everything required for operating this efficient extinguishing system is behind a little door:

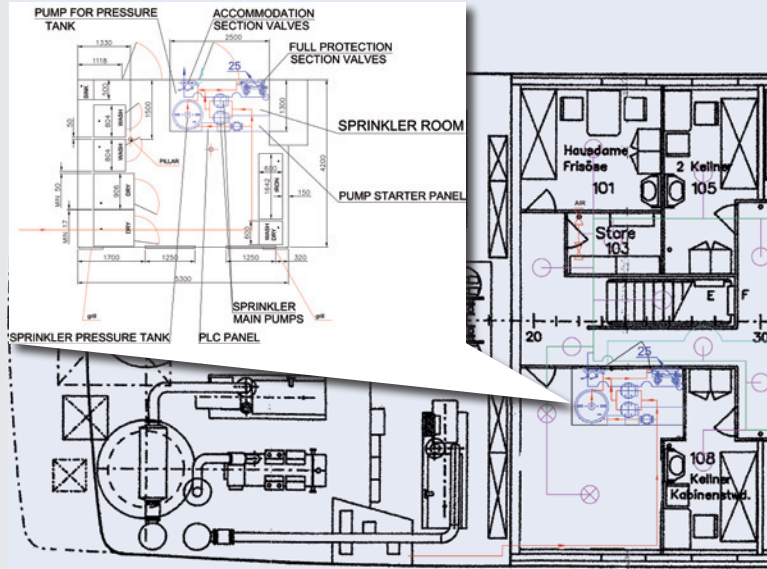
- Freshwater pressure tank 500 litres
- Pressure holding and refill pump
- 2 sprinkler pumps 15 m<sup>3</sup>/h, 16 bar and 20 kW each
- Alarm panel
- Control cabinet

In addition, various pipe systems were newly laid with a total length in excess of 1 kilometre in DN 15 to DN 65.

Now it can safely sail again on short and long cruises.

**SAID. DONE!**

## SPACE IS ON THE SMALLEST DECK



### Technical data MS RIVER ALLEGRO

Flag:	Malta
Passengers:	90
Crew:	29
Cabins:	48 all outside
Year built:	1991 Deggendorfer Werft und Eisenbau GmbH, Reederei Deilmann
Conversion/ Renovation:	2010 Norderwerft, Reederei Grand Circle Travel
Length:	98 m
Width:	11 m
Decks:	3
Draught:	1 m
Propulsion:	3 x SPJ 403 kW each
Bow thruster:	SPJ 220 kW

We can also design the perfect solution for your requirements. Simply call us or contact us by email.



**FIRE PROTECTION SYSTEMS**

**FireOff Systems**



**Everything from a single source**

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**FIRST STEPS  
ARE ALWAYS WELCOME**

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**SAID. DONE!**