

SEM-SAFE[®] Low-Pressure Water Mist – for Local Application



We are reaching even higher

Danfoss Semco's extensive experience with water mist systems for fire protection and understanding of customer needs have led to the development of a new state-of-the-art local application system, based on low-pressure water mist.

The new SEM-SAFE® low-pressure water mist system represents excellent value for money with numerous advantages that offer the best fire protection performance of any low-pressure water mist system on the market.

Great performance in a simple, modular design

The new low-pressure system is mounted on a compact skid to simplify installation, operation and maintenance. The simple multi-section valve assembly makes it the most compact low-pressure water mist system on the market.

Save time and money on installation

- Light and small
- Simple and fast installation
- Easy mounting of lifting eye for fast handling
- Block valve assembly provides simple and fast connection to piping
- Possibility to mount the system free-standing or against the bulkhead
- Small size allows flexible engine room layout

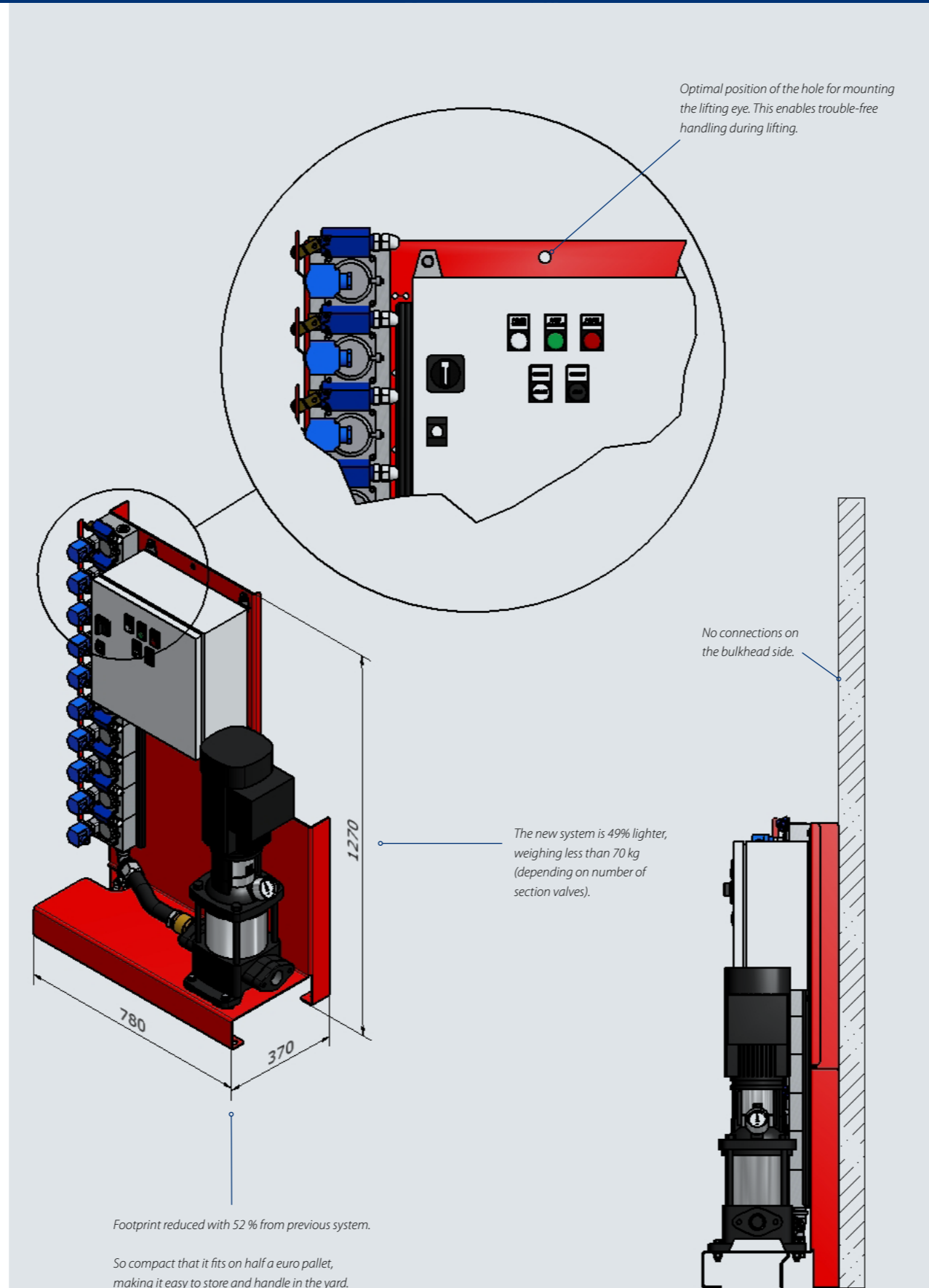
Easy operation and maintenance

Simplicity in design facilitates the operation of the system.

- The unit is serviced from one side
- Easy access to all components

The unit has 30% fewer components, reducing the amount of spare parts required.

- Saves space with fewer spare parts required for storage on-board vessels
- Practically maintenance free



System description

COMPACT is the word that best describes the new low-pressure water mist system.

- Assembled on a compact skid
- Simple multi-section valve assembly
- In-line valves for easy pipe connection
- Individual alarms for each section
- Common alarm output
- Unit is supplied with counter-flange for fresh water connection in the yard
- Compressed air connection
- Signal for pump operating

Flexibility meeting your demands

The low-pressure water mist system comes as a standard version, with several options that can be added upon request. We are able to provide the best solution no matter what your requirements are.

Options:

- Detection system
- Special colour
- Special power supply
- More than 10 section valves
- Extra common alarm output options
 - External reset
 - VDR interface
- External level switch for fresh water tank
- Special high-capacity pump
- Section valve flanges

Approved system

The SEM-SAFE® low-pressure water mist system is approved by all major classification societies and authorities. Moreover, it complies with the requirements of IMO MSC/Circ. 913 for local protection and protected hazardous areas as described in the standard: i.e. auxiliary engine, main engine, boiler fronts, oil separators, etc.

Approved by ABS, RINA, DNV, GL, BV, Lloyds.

Danfoss Semco A/S Fire Protection

History

Danfoss Semco A/S Fire Protection is a global leader in the sale, development, production and service/commissioning of certified fixed fire fighting systems. Two leading firms in the field, Danfoss A/S and Semco Maritime A/S, joined forces to form the present company, with Semco Maritime boasting over half a century of expertise in designing and installing fixed fire fighting systems. All the while, Danfoss has developed and delivered key components for the high-tech systems.

Today, Danfoss Semco is an integral part of the Danfoss Group, Denmark's largest industrial manufacturing company with a daily output of more than 250,000 finished components. With more than 24,000 employees worldwide, Danfoss is truly a global company.

Danfoss Semco is a pioneer within water mist technology in the marine industry and continues to develop new applications to improve safety and efficiency.

Business areas

The company operates three main business areas.

Our water mist division, located in Odense, Denmark, comprises of two business areas: marine and industrial & commercial. The former has pushed boundaries for development and design to offer a wide range of solutions for numerous application areas on almost any type of vessel.

Within the industrial and commercial area, Danfoss Semco has a successful track of record with different applications, ranging from complex fire fighting systems for museums and heritage sites to industrial applications over office buildings, universities and wind turbines.

Our gas and foam division, based in Copenhagen, Denmark is the world's largest CO₂ based fire fighting systems suppliers for the marine industry. The division supplies gas, foam and dry chemical powder worldwide.

In-house manufacturing of key components

Danfoss Semco operates in-house research, development and manufacturing facilities of all critical components to ensure uncompromising performance and cost-effective systems. This puts us in a unique position to maintain our technological leadership in the future.

Proven experience

Danfoss Semco has supplied fire fighting system to more than 1,500 vessels, including world class ships, such as:

- *Allure of the Seas* and *Oasis of the Seas*, the world's largest cruise liners
- *Emma Maersk*, the world's largest container ship
- *HSC Fjord Cat*, the world's fastest passenger vessel and holder of the record for the fastest transatlantic voyage
- *Island Constructor*, ship of the year in 2008
- *Le Grand Bleu*, one of the world's biggest yachts

