

Why choose SEM-SAFE[®] high-pressure water mist fire safety system for protecting your data centre?

Consistently **reliable**

- ✓ **Fast activation** upon fire detection
- ✓ **Efficient** fire control & suppression
- ✓ **Protects** data centre assets & people
- ✓ **Added safety.** No risk of false discharge due to single or double interlock pre-action system

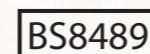
Sustainable fire safety technology

- ✓ High-pressure water mist is an **ultra-clean technology**, environmentally friendly
- ✓ **100% harmless** to people
- ✓ **Only high-quality materials** from selected green suppliers are used in the pump unit, nozzle, section valves, pipes & fittings

Scalability

- ✓ **Modular pump design** makes it easy to extend the system to cover more sections of the data centre as it gradually expands
- ✓ **Suitable** for modular data centres

Tested & approved



ISO 9001:2015
ISO 14001:2015
DS/ISO 45001:2018

Increased customer value thanks to freedom of design & performance

- ✓ **Approved to protect double tier cable tray** in false floors, so that the data centre designer is not limited when planning cable trays
- ✓ **No need to design** pressure release openings
- ✓ **No need to design** a gas tight room
- ✓ **Ventilation & electricity** can be kept running

Excellent performance

- ✓ Up to **50% less water consumption** required to control and suppress the fire compared to traditional sprinkler or low-pressure water mist systems
- ✓ **Approved** for 5 m ceiling height & for temperatures of **57°C & 68°C**
- ✓ **Rapid cooling** and inerting due to small water mist droplet size to prevent fire growth
- ✓ **Efficient absorption of smoke particles** to prevent smoke spread & to significantly decrease potential damage caused by smoke to the equipment

Cost-effective solution & a low cost of ownership

- ✓ **Minimum downtime** as the data centre can be kept running while fire is extinguished
- ✓ **Fewer nozzles** required due to large nozzle spacing, thus installation & maintenance costs & time can be reduced
- ✓ **Maintenance-free** Danfoss high-pressure pump (no lubricant required)
- ✓ **Space saving** due to:
 - Small footprint of the SEM-SAFE[®] pump unit compared to gas cylinders racks
 - No need for big water reservoir compared to traditional sprinkler systems
 - Smaller size of the stainless steel pipe (max. 2" outer diameter), also for increased flexibility in installation
- ✓ **No expensive refill costs**
- ✓ Money saving due to **cooling energy saving**