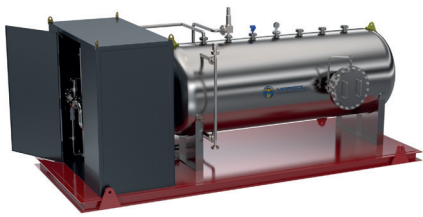




Self-Contained Deck integrated Fire Fighting System





MARSOL

MARSOL Technologies, Inc. are based out of Houston, Texas, USA. Specializing in the design, manufacture and implementation of fire fighting safety systems and related products for helideck and helipad operations – for onshore, offshore and marine industry applications. Our ethos is to provide solutions that deliver safety critical performance significantly above and beyond minimum compliance requirements.

Product, Service, Support

- 🔥 DiFF Nozzles
- 🔥 Custom Engineering
- 🔥 Foam Skids
- 🔥 System Integration
- 🔥 Foam Concentrates
- 🔥 Factory Approval Testing
- 🔥 Control Equipment
- 🔥 Commissioning, Field Service and Technical Support

Standard Self-Contained System

The MACS Series skid a standalone foam system primarily intended for extinguishing fires in normally unmanned installations (NUI). The MACS is connected to a DiFFS which has better extinguishing capabilities than conventional foam monitors. The system is a self-contained type with all equipment packaged within the skid frame. The Skid consists of steel pressure vessel, high pressure nitrogen cylinders, foam tank, in-line foam inductor, control valve and regulator panel. As an option, the system can also include an control panel which is used for monitoring and controlling the system locally and from remote locations. The system is activated manually using remote control stations located at the entry/exit points of the helideck. Based on the project requirement, the system is supplied with 3IR flame or Visual Flame Sensors which detect fire on the helideck and release the system automatically. The system also can be activated using remote operation when connected to a third party RTU/DCS (activation method is subject to project requirement.)

The MACS is also available with electrical motor driven pump type systems for projects where sufficient electrical power is available to drive electrical motors during system discharge. Various pump type such as centrifugal or multistage pumps supplied based on project requirement.



MACS - Versions

Standard Foam System - is supplied with a built in foam tank and foam mixing equipment to supply the foam solution.

Pre-Mix System - is supplied as a pre-mix type, where the foam concentrate is premixed with water and stored in a pressure vessel.

Water Only System - is supplied with only a water pressure vessel (ie without any foam production components installed) when the system is used in conjunction with a passive fire retardant type (perforated deck surface) aluminium helideck.



Design Standard / Specification

- 🔥 Civil Aviation Authority (CAP-437)
- 🔥 ICAO - 14
- 🔥 NFPA-418
- 🔥 ICAO-9261
- 🔥 Others (Project Specific)

Key Specifications

- 🔥 Custom Built
- 🔥 Built-in Foam Filling Pump
- 🔥 Stainless Steel 316/316L Pressure Vessel
- 🔥 Painting and Coating to Offshore standards
- 🔥 200Bar/300Bar Nitrogen Cylinders
- 🔥 Electric or Pneumatic Operated Main Valve.
- 🔥 Stainless Steel 316 Regulators
- 🔥 Open or Enclosed Skid design.
- 🔥 Instrument Junction Box
- 🔥 Monitoring and Control Panel
- 🔥 4-Point Lifting

Options

- 🔥 Redundant Regulators
- 🔥 Individual Nitrogen Cylinder Monitoring
- 🔥 Redundant Nitrogen Cylinders
- 🔥 Range of Pipes and Valve materials
- 🔥 Ex-Proof Electricals
- 🔥 Insulated Enclosure with Enclosure Heater
- 🔥 SIL-2 Monitoring & Control Panel
- 🔥 SS-316L Enclosure or Skid Frame.
- 🔥 SIL-2 Visual Flame Sensor (HART)
- 🔥 UL/FM Approved Components

Quality Testing

- 🔥 Pressure Test (Pipe Line)
- 🔥 FAT Certificate
- 🔥 Pressure Test (Pressure Vessel)
- 🔥 Component Certificate
- 🔥 Certificate of Conformity
- 🔥 3rd Party Verification

Certifications

- Project Based 3rd Party Certification
- 🔥 American Bureau of Shipping (ABS)
- 🔥 Lloyd's Register of Shipping (LRS)
- 🔥 Det Norske Veritas (DNV)
- 🔥 Bureau Veritas (BV)





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