

## Clean Agent Engineered Fire Suppression Systems for Yachts, Working Boat and Commercial Vessels over 24mt in length

For larger volumes (over 6000 cu.ft/170m<sup>3</sup>) or yachts and commercial vessels over 24mt in length requiring a SOLAS 848 / MED approved system, Marinefire offers a comprehensive range of approved Engineered Fire Suppression Systems. Marinefire's engineered systems carry a range of Type and Flag Administration Approvals, including US Coastguard (USCG), Lloyds Register of shipping and others.

In order to obtain these approvals, Marinefire engineered fire suppression systems have undergone exhaustive system testing, ongoing product design, evaluation and quality system review. As a result, Marinefire's Engineered systems have passed UL, IMO and ISO test standard/protocols, Pressure Equipment Directive and Marine Equipment Directive certification.



### **MFE MARINE FIRE HFC-227 ENGINEERED**

MFE Marine Fire Engineered fire suppression systems are MED approved for SOLAS 848 vessels and carry a range of type approvals and flag administration approvals including: United States Coastguard (USCG), Lloyds Register of Shipping, MCA, CE etc. This system uses HFC-227 fire extinguishant and is suitable for machinery spaces and other class A, B and C hazards and offers the best combination of life safety and fire suppression performance. It is reduced in weight and reduced in size in comparison with other systems and offers flexibility in location of cylinders and system discharged in seconds. HFC-227 is safe for people and equipment. No post discharge clean up.

HFC-227 fire extinguishant is a compound of carbon, fluoride and hydrogen. It is colourless, odourless and electrically non-conductive. It suppresses fire by a combination of chemical and physical mechanisms without affecting the available oxygen. This allows personnel to see and breathe, permitting them to leave the fire area safely. HFC-227 has acceptable toxicity for use in occupied spaces when agent concentration is in accordance with NFPA 2001, and the applicable IMO and US Coastguard rules.

MFE MARINE FIRE ENGINEERED SYSTEMS are custom designed and Marinefire guarantees design and installation support, approval process assistance and international recharge and maintenance service on these systems.

### **MFN MARINE FIRE NOVEC™ ENGINEERED**

Marinefire's MFN Marine Fire NOVEC Engineered Fire Suppression system is designed for use with 3M NOVEC 1230 fire protection fluid. The system meets strict European environmental restrictions, discharges in seconds and is people-safe.

No post-discharge clean up is necessary.

The "next generation in halon replacement", Novec 1230 fluid's environmental profile, low toxicity characterising and fire performance make it a sustainable solution as a halon replacement alternative to HFCs. It can be used in occupied areas. Novec 1230 fluid can effectively be applied in streaming, flooding, inerting and explosion suppression marine applications. It will suppress a fire in less than 10 seconds from discharge.

3M NOVEC 1230 fire protection fluid is a fluoroketone: a compound of carbon, fluoride and oxygen, which suppresses fire by a combination of chemical and physical mechanisms without affecting the available oxygen. Novec 1230 is acceptable for use in occupied space when agent concentration is in accordance with NFPA 2001, and the applicable IMO and US Coastguard rules. The Novec 1230 is stored in steel cylinders, pressurized with nitrogen to 25bar (360 psig). The cylinder valve assembly is equipped with a supervisory pressure switch connection for monitoring cylinder pressure. Other system components include mounting brackets, control heads, pull station, pilot cylinders, flex hoses, discharge delays etc.

MARINEFIRE offers a comprehensive design and installation support service, as well as worldwide network for refilling and service.

