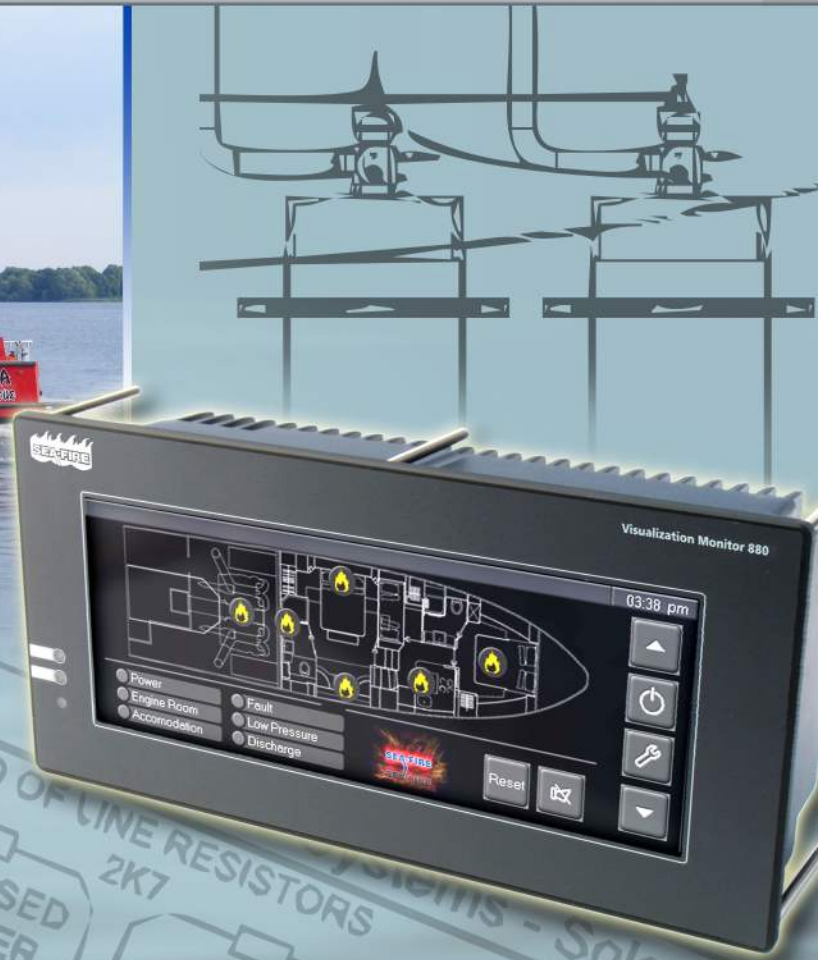
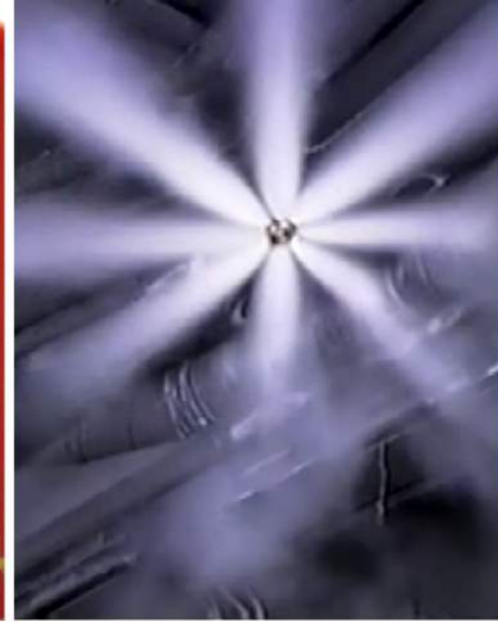




# COMMERCIAL MARINE DIVISION



[WWW.SEA-FIRE.COM](http://WWW.SEA-FIRE.COM)



## SEA-FIRE COMMERCIAL MARINE DIVISION

Since 1994, Sea-Fire Marine has been supplying the "Commercial Marine Market" with its line of clean agent fire suppression systems.

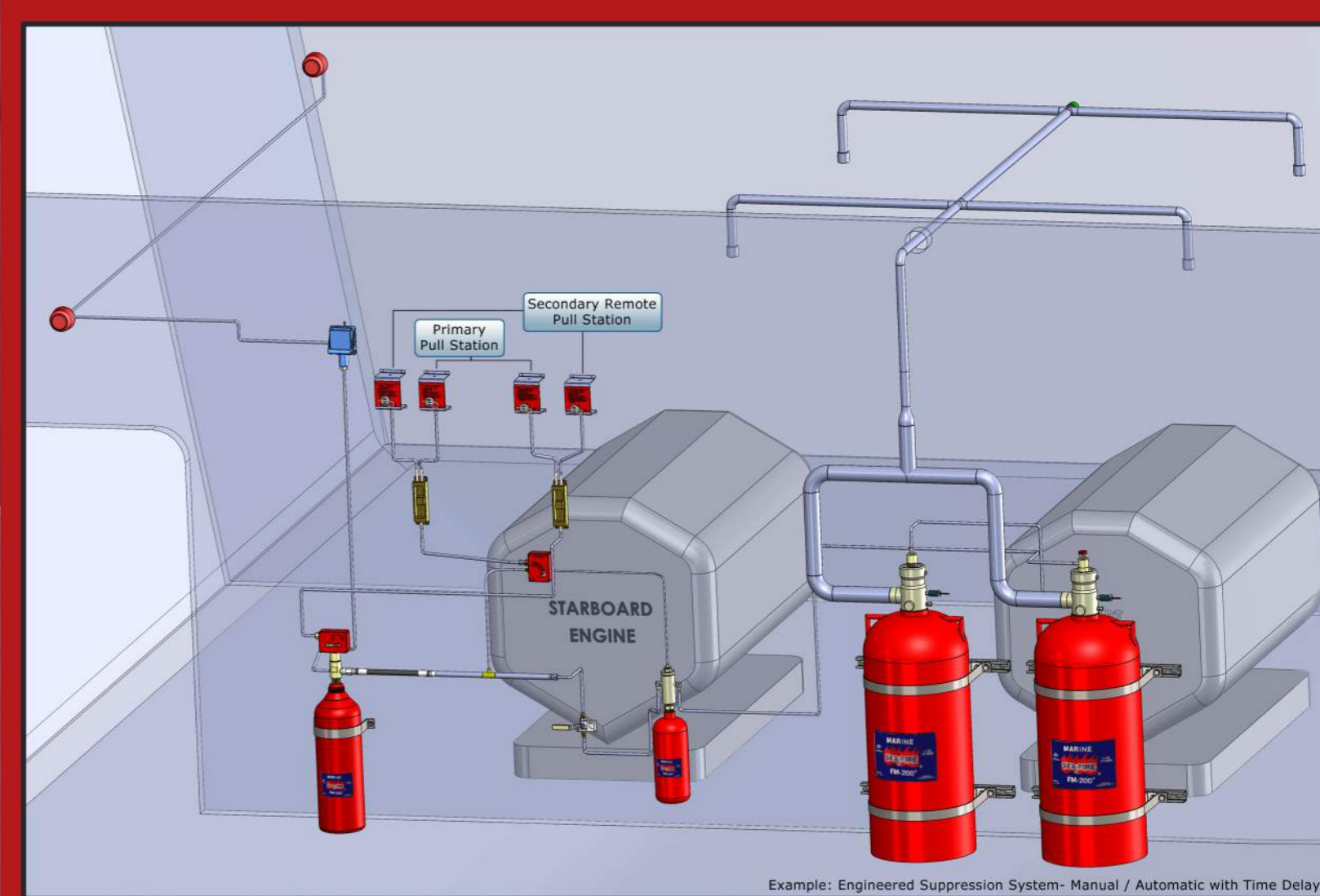
Sea-Fire engineered systems were developed for large volume applications and tested in accordance with IMO/SOLAS requirements and can be configured for spaces up to 17500 cubic feet (500 m<sup>3</sup>) for protection of transport vessels, work boats, large pleasure craft and onshore/offshore marine applications.

As part of our mission to be an integrated solutions provider for fire safety in commercial marine applications, Sea-Fire has developed a comprehensive product offering, including Digital Monitoring systems and K5 galley systems.

Digital Monitoring systems featuring Böning manufacturing technology are offered, including the Sea-Fire Visualization 880 Monitor, which fully integrates with the FireStop detection system. This system is designed for the increasing sophistication of modern vessels in the commercial and recreational marine market and meet the aesthetic value of intuitive operation and increased safety onboard.

Fire protection, featuring K5 wet chemical fire suppression technology, has been designed to meet the requirements of ISO 15371:2000 thereby providing ship owners and operators the means to ensure the health and safety of the ship and crew within the galley setting.

**Novec™ 1230**



Example: Engineered Suppression System- Manual / Automatic with Time Delay



## WHY CHOOSE SEA-FIRE ?

Sea-Fire services include Design, Engineering, Technical Support, Liaison with Authority having Jurisdiction, Installation, Commissioning and system check out.

These services are available from our facility in Baltimore (USA), from our Master Distributor in Portsmouth (UK) as well as our worldwide distribution network.

Sea-Fire systems have passed a rigid testing program and carry a Factory Mutual Global (FM) approval for fire suppression in marine application including approvals from around the world.

Sea-Fire's vast experience distinguishes us as a global leader in the design and manufacture of marine fire suppression systems. This, combined with our extensive product line and our world wide service network, means Sea-Fire is trusted by our customers to insure fire safety solutions are fully implemented in their applications. Through continuous improvement and enhancement in our product design, including a commitment to quality and customer satisfaction, can only mean this: You're safe with Sea-Fire.

VISIT OUR WEBSITE: [WWW.SEA-FIRE.COM](http://WWW.SEA-FIRE.COM)

# SEA-FIRE FIRESTOP INTEGRATED FIRE DETECTION SYSTEM

## VISUALIZATION MONITOR 880

Sea-Fire Marine's Visualization Monitor 880 is developed for integration with the FireStop fire detection system. The LCD color display offers individual visualization of specific data of the fire detection system and allows quick and clear identification of fire alarms and events within the system. The 880 features touch screen capability.



## FireStop Control Panel (FCP)

The Fire Detection system is comprised of the control module, a microprocessor unit which relays system functions via CAT5 data cables and up to four display panels with expandable modular design. The Visualization Monitor is integrated into the FireStop Control Panel (FCP) via an interface panel which converts the data received to CAN protocol and transmits to the LCD color display. The compact design of the unit with protection of IP67 at the front side allows operation of the display in wheelhouse control consoles as well as in fly bridge consoles.



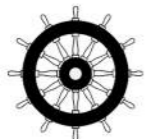
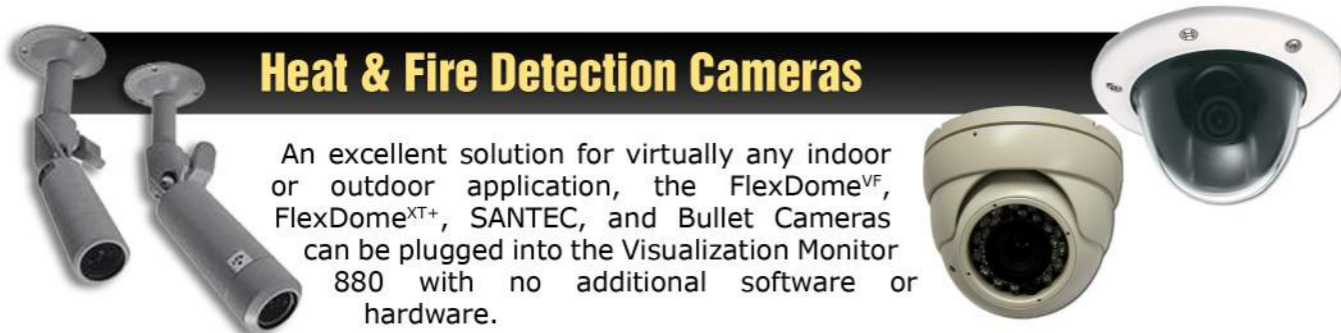
## INTERFACE PANEL

The unique integration of monitoring and machinery control defines Sea-Fire's Visualization Monitor and Fire Control panel (FCP) detection system as the ultimate economical choice for the commercial and recreational marine industry.



## Heat & Fire Detection Cameras

An excellent solution for virtually any indoor or outdoor application, the FlexDome<sup>VF</sup>, FlexDome<sup>XT+</sup>, SANTEC, and Bullet Cameras can be plugged into the Visualization Monitor 880 with no additional software or hardware.



Marine Equipment Directive

Visualization Monitor 880  
131-178

Visualization Monitors 570  
131-180



CAN-BUS

Plug Connector  
CAN-Bus

Zone Identification Panel



Plug Connectors  
RJ45



Interface Panel  
With Expandable  
Zones

Panel pre-wired

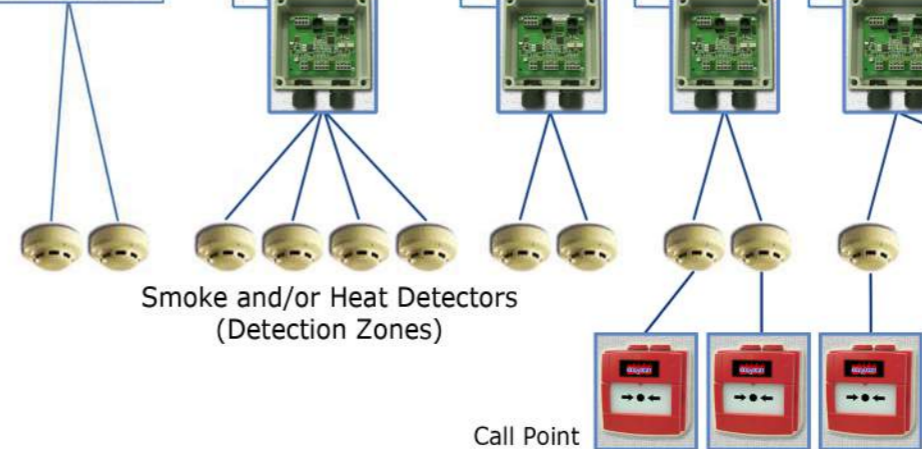
CAT5 Cable

CAT5 Cable

Control Unit



Smoke and/or Heat Detectors  
(Detection Zones)



Adapter Units

Threshold Relay  
24 VDC

Fixed Gas  
Detector

Call Point



Bureau Veritas

# H Series Engineered

## Engineered Systems

For volumes from 1,500 cu ft (42.5 m<sup>3</sup>) up to 17,500 cu ft (500m<sup>3</sup>)



### "H" Series Engineered

Distinguished as world leader in the development of pre-engineered fire suppression systems for the commercial marine and pleasure craft industry, Sea-Fire accepted the challenge of providing environmentally responsible fire protection solutions for mission critical equipment, high value assets and people living and working in large scale marine environments.

Developed for high volume applications, Sea-Fire's "H" Series custom-engineered fire suppression systems are the solution for automatic fire protection of workboats, transport vessels, large pleasure craft, yachts and onshore / offshore marine applications. "H" Series systems carry Factory Mutual (FM), United States Coast Guard (USCG), American Bureau of Shipping (ABS), Transport Canada (TC), Registro Italiano Navale (RINA), Maritime Coastal Agency (MCA) and Germanischer Lloyd (GL) approvals, verifying conformity with stringent national and international standards. Engineered systems are tested in accordance with IMO/SOLAS requirements, and can be configured for spaces from 1,500 to 17,500 cubic feet.



### Manual Operated Actuator



131-032

### Cable Operated / Pneumatic Actuator



131-033

### Electrical Solenoid Actuator



131-035

### Pneumatic Control Head



131-050

### Pneumatic Heat Detector



131-020

# K-Series

## K-5 Galley Wet Chemical Fire Suppression Systems

Fully independent and electrically actuated, Sea-Fire K-Systems use spot heat detectors to detect fire conditions. The cooking appliances can be individually protected or multiple systems can be configured to suit the demands of any Galley.

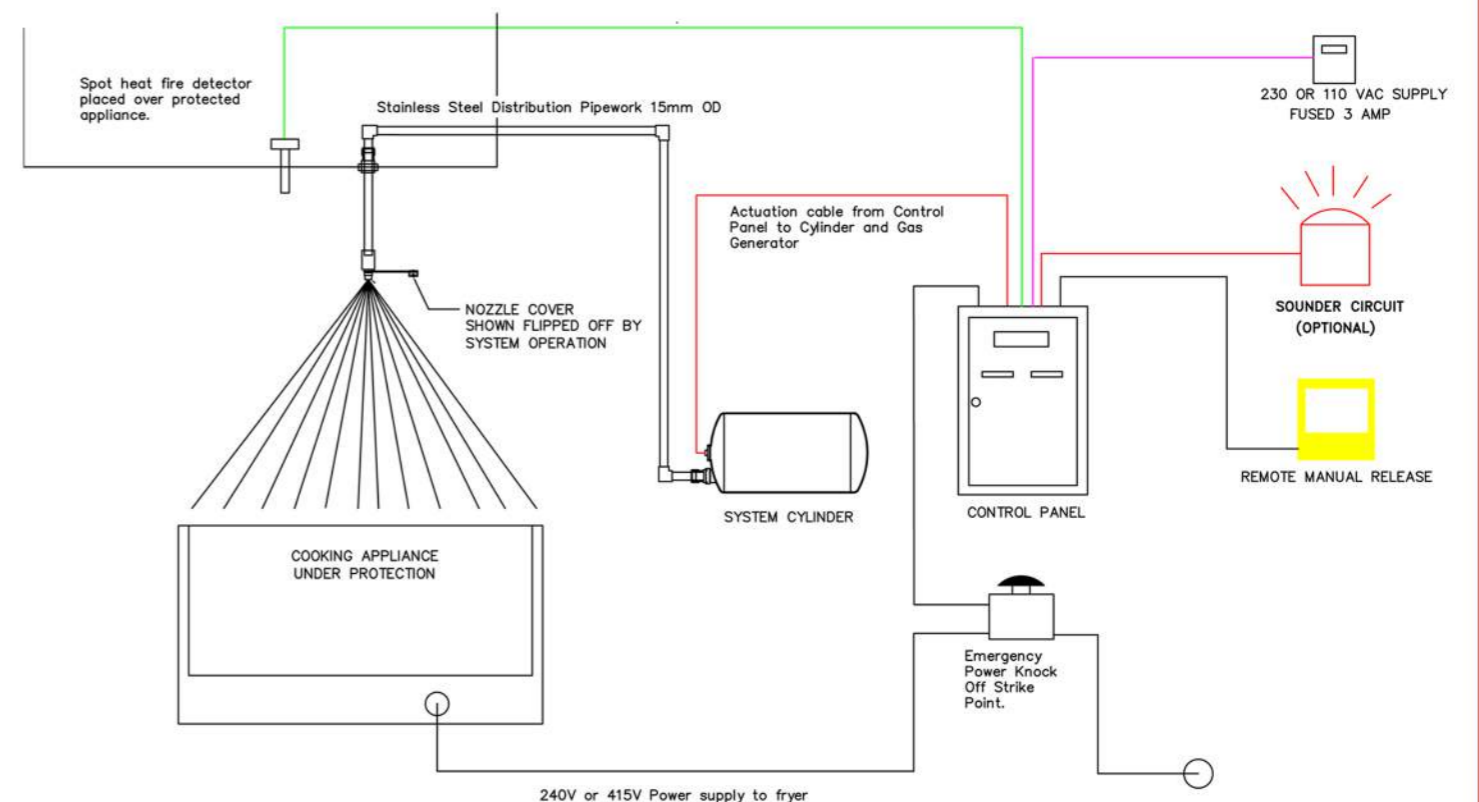


Sea-Fire K-Systems can be operated manually using push button switches; on receiving the FIRE signal, the system control panel sounds audible and visual alarms and immediately initiates shut down of the power supply to the appliances being protected. Simultaneously the control system deploys the suppressant liquid onto the fire.

The gas required to pressurise the storage cylinder is produced in a controlled manner from a solid propellant gas generator. The cylinder and gas generator remain at zero pressure until an electrical signal is received from the system control panel. On actuation, the cylinder is pressurised to 10-12 bar.



## Standard Galley Fire Suppression System Schematic



# JOIN THE SEA-FIRE FLEET



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Visit our website [www.sea-fire.com](http://www.sea-fire.com)

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