

# CBRN

## FireStorm

FAST RESPONSE • MEDIVAC • EMERGENCY RESPONSE • AMBULANCE • RESCUE • FIRE

### BENEFITS OF CBRN FIREBOATS

MetalCraft Marine CBRN defence systems can actively: SHIELD the expedition from exposure with built-in respiratory and ocular protection; SUSTAIN the mission with decontamination facilities to provide front-line medical response; SENSE the agents for continuous point and stand-off detection providing prompt situation appraisal; SHAPE the environment with both situation management and response capability.

### WHY FIREBOATS?

CBRN vessels are usually managed by Fire Departments due to the extensive Hazmat and First Responder training that firefighters complete. Because of the broad responsibilities of Fire Departments, all FireStorm's can be equipped with CBRN defence systems.

### FUNDING AND ASSISTANCE

Acquisition of necessary CBRN defense equipment is an integral part of preparing and improving emergency preparedness. CBRN vessels are mandated under several FEMA Grant Programs and USCG Risk Management Plans.

### CBRN DEFENCE SYSTEMS

MetalCraft Marine classifies CBRN defence systems equipped on the FireStorm into four capabilities:

**PROTECTION** - crew is protected from CBRN agents through isolation from the environment with air handling and isolation systems:

- Integral storage for specialized hazmat and chemical contamination response equipment
- Onboard breathable air system based on convention SCBA personal protective equipment
- Positive cabin air pressurization with gas particulate air filtration system to remove CBRN contaminants from air and interior and exterior pressure detectors with system control module in the pilothouse

**DECONTAMINATION** - CBRN decontamination areas for patients, emergency responders and equipment

- Decontamination area with cold or hot fresh water shower
- Toxic-Free Area including the pilothouse and part of the lower cabin with a double air lock Safe Entry and Decontamination Area

**DETECTION** - CBRN agents are detected through the use of sensors and instrumentation:

- Fixed gas detectors for toxic chemicals and flammable gasses
- Chemical warfare and toxic industrial chemical detection and identification
- Multiple threat CBRN detection and identification
- CBRN monitors for hazardous materials and emergency response management

**MANAGEMENT** - command and control of CBRN threats through integrated emergency management and response capabilities to perform missions in a CBRN environment.

- Active CBRN threat detection that initiates on board protection
- Real-time wireless CBRN threat control solutions that relay data from wireless monitors and detectors to a central command location
- Rapid monitoring and assessment of situations involving CBRN substances by integrating wireless monitors and detectors, weather data and advanced computer software to analysis the best course of action for protection and containment



**MetalCraft Marine**

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