



Your Onboard Safe Choice

H Series Engineered Systems Design Guide

A Division of Metalcraft, Inc. 9331 A Philadelphia Rd. Baltimore, MD 21237 U.S.A Tel: +1 410 687-5500 ; Fax: +1 410 687-5503

Date:

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Boat Builder / Distributor: _____ Contact Name: _____
 Vessel Name: _____ Contact Phone No.: _____
 Vessel LOA: _____ Vessel Hull/File No: _____ Contact E-Mail: _____

HAZARD AREAS INFORMATION:

Engine Compartment							
Length:	<input type="text"/>	Width:	<input type="text"/>	Height:	<input type="text"/>	or Total GROSS Volume:	<input type="text"/>
If Fuel Tanks or any permanently installed tankages are included in above Engine Compartment (Gross Volume), please fill in below.							
Length:	<input type="text"/>	Width:	<input type="text"/>	Height:	<input type="text"/>	or Total Volume:	<input type="text"/>
If the Bilge Area is separated from Engine Compartment and is not included in above Engine compartment volume, please fill in below.							
Bilge Area							
Length:	<input type="text"/>	Width:	<input type="text"/>	Height:	<input type="text"/>	or Total Volume:	<input type="text"/>
Other area to be protected such as Lazarette, Garage, Pump Room, Paint Locker...etc.							
Please indicate the area:							
Length:	<input type="text"/>	Width:	<input type="text"/>	Height:	<input type="text"/>	or Total Volume:	<input type="text"/>
Please indicate the area:							
Length:	<input type="text"/>	Width:	<input type="text"/>	Height:	<input type="text"/>	or Total Volume:	<input type="text"/>
Hazard area temperature range:		Minimum temp:		<input type="text"/>	Maximum temp:		<input type="text"/>

APPROVALS:

Minimum design concentration FM-200 ® (Marine 8.7%) @ 32°F (0°C) (Per U.S.C.G.)

Check type of approval(s) required:

ABS (American Bureau of Shipping)	<input type="checkbox"/>	Australia (National Marine Safety Committee)	<input type="checkbox"/>	BV (Bureau Veritas)	<input type="checkbox"/>	CE (Certified European)	<input type="checkbox"/>	DNV (Det Norske Veritas)	<input type="checkbox"/>	GL (Germanischer Lloyd)	<input type="checkbox"/>
Lloyds/MCA (Maritime Coastal Agency)	<input type="checkbox"/>	Maritime New Zealand	<input type="checkbox"/>	RINA (Registro Italiano Navale)	<input type="checkbox"/>	TC (Transport Canada)	<input type="checkbox"/>	USCG (United States Coast Guard)	<input type="checkbox"/>		
Others: _____											

DRAWING REQUIRED:

In order to perform System flow calculation, the following information must be provided:

- Provide the following sketches of each area to be protected:
 - Plan view
 - Elevation
 - Potential Piping Isometric
- Place the cylinder(s) location(s) on the sketch and complete the piping isometric.
 NOTE: If moisture is present, place the cylinders at least two inches off the deck.
- Locate all hatches and vents that need to be closed with pressure trip devices.



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OPTIONS:

Is a time delay necessary?

NO

YES 30 second time delay or 60 second time delay

Audible devices required?

NO

YES Horn Strobe via pressure switch or Siren via CO2 pressure operated

Determine method of system actuation: Please Choose One.

- a. Automatic via Heat Actuated Devices (HAD) & Manual Remote Pull Station
- b. Manual ONLY - via manual remote pull station
- c. Electric Solenoid Actuator (NOT USCG approved)
- d. Others :

Determine length of manual release cable and location of manual release station:

Length required: _____ Location: _____

If second manual release station is required, please indicate below.

Length required: _____ Location: _____

Specify Engine Shutdown Restart System: number of devices to shutdown.

- | | | | | | | |
|------------------------|-------|------------------------------|------------------------------|-------------------------------|-------------------------------|----------------|
| a. Type of Engine : | _____ | 12V <input type="checkbox"/> | 24V <input type="checkbox"/> | Number of Engines: _____ | | |
| b. Type of Generator : | _____ | 12V <input type="checkbox"/> | 24V <input type="checkbox"/> | Number of Generators: _____ | | |
| c. Air Intakes : | _____ | 12V <input type="checkbox"/> | 24V <input type="checkbox"/> | 110V <input type="checkbox"/> | 220V <input type="checkbox"/> | Numbers: _____ |
| d. Other Devices : | _____ | 12V <input type="checkbox"/> | 24V <input type="checkbox"/> | 110V <input type="checkbox"/> | 220V <input type="checkbox"/> | Numbers: _____ |

If above devices are not located in Engine Room, please indicate the location.

All piping 2" or smaller shall be schedule 40 galvanized with 300 pound class fittings, or stainless steel. All piping greater than 2" shall be schedule 80 galvanized. (See SEA-FIRE MARINE design manual P/N 123-144, installation section for further details).