

(2) Be capable of manual actuation from outside the space in addition to automatic actuation by a heat detector;

(3) Automatically shut down all power ventilation systems and all engines that draw intake air from within the protected space; and

(4) Be installed in accordance with the manufacturer's instructions.

(b) A vessel on which a pre-engineered fixed gas fire extinguishing system is installed must have the following equipment at the operating station:

(1) A light to indicate discharge;

(2) An audible alarm that sounds upon discharge; and

(3) A means to reset devices used to automatically shut down ventilation systems and engines as required by paragraph (a)(3) of this section.

(c) Only one pre-engineered fixed gas fire extinguishing system is allowed to be installed in each space protected by such a system.

**§ 181.425 Galley hood fire extinguishing systems.**

(a) A grease extraction hood required by §181.400 must meet UL 710 "Exhaust Hoods for Commercial Cooking Equipment," or other standard specified by the Commandant.

(b) A grease extraction hood must be equipped with a dry or wet chemical fire extinguishing system meeting the

applicable sections of NFPA 17 "Dry Chemical Extinguishing Systems," 17A "Wet Chemical Extinguishing Systems," or other standard specified by the Commandant, and must be listed by an independent laboratory recognized by the Commandant.

**§ 181.450 Independent modular smoke detecting units.**

(a) An independent modular smoke detecting unit must:

(1) Meet UL Standard 217 and be listed as a "Single Station Smoke detector—Also suitable for use in Recreational Vehicles," or other standard specified by the Commandant;

(2) Contain an independent power source; and

(3) Alarm on low power.

(b) [Reserved]

**Subpart E—Portable Fire Extinguishers**

**§ 181.500 Required number, type, and location.**

(a) Each portable fire extinguisher on a vessel must be of an approved type. The minimum number of portable fire extinguishers required on a vessel must be acceptable to the cognizant OCMI, but must be not less than the minimum number required by Table 181.500(a) and other provisions of this section.

TABLE 181.500(a)

Space protected	Minimum No. required	Type extinguisher permitted		
		CG class	Medium	Min size
Operating Station .....	1 .....	B-I, C-I .....	Halon .....	1.1 kg (2.5 lb).
			CO2 .....	1.8kg (4 lb).
			Dry Chemical .....	0.9 kg (2 lb).
			CO2 .....	6.8 kg (15 lb).
Machinery Space .....	1 .....	B-II, C-II located just outside exit.	Dry chemical .....	4.5 kg (10 lb).
			Foam .....	9.5 L (2.5 gal).
Open Vehicle Deck ...	1 for every 10 vehicles.	B-II .....	Halon .....	4.5 kg (10 lb).
			CO2 .....	6.8 kg (15 lb).
			Dry Chemical .....	4.5 kg (10 lb).
			Foam .....	9.5 L (2.5 gal).
			Dry Chemical .....	4.5 kg (10 lb).
Accommodation Space	1 for each 232.3 square meters (2,500 square feet) or fraction thereof.	A-II .....	Foam .....	9.5 L (2.5 gal).
			Dry Chemical .....	4.5 kg (10 lb).
Galley, Pantry, Concession Stand.	1 .....	A-II, B-II .....	Foam .....	9.5 L (2.5 gal).
			Dry Chemical .....	4.5 kg (10 lb).

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(b) A vehicle deck without a fixed sprinkler system and exposed to weather must have one B-II portable fire extinguisher for every five vehicles, located near an entrance to the space.

(c) The cognizant OCMI may permit the use of a larger portable fire extinguisher, or a semiportable fire extinguisher, in lieu of those required by this section.

(d) The frame or support of each B-V fire extinguisher permitted by paragraph (c) of this section must be welded or otherwise permanently attached to a bulkhead or deck.

[CGD 85-080, 61 FR 982, Jan. 10, 1996; 61 FR 24464, May 15, 1996, as amended at 62 FR 51358, Sept. 30, 1997]

### § 181.520 Installation and location.

Portable fire extinguishers must be located so that they are clearly visible and readily accessible from the space being protected. The installation and location must be to the satisfaction of the Officer in Charge, Marine Inspection.

## Subpart F—Additional Equipment

### § 181.600 Fire axe.

A vessel of more than 19.8 meters (65 feet) in length must have at least one fire axe located in or adjacent to the primary operating station.

### § 181.610 Fire bucket.

A vessel not required to have a power driven fire pump by § 181.300 must have at least three 9.5 liter (2½ gallon) buckets, with an attached lanyard satisfactory to the cognizant OCMI, placed so as to be easily available during an emergency. The words "FIRE BUCKET" must be stenciled in a contrasting color on each bucket.

[CGD 85-080, 61 FR 982, Jan. 10, 1996, as amended at 62 FR 51358, Sept. 30, 1997]

## PART 182—MACHINERY INSTALLATION

### Subpart A—General Provisions

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- 182.115 Applicability to existing vessels.
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### Subpart B—Propulsion Machinery

- 182.200 General.
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### Subpart C—Auxiliary Machinery

- 182.310 Installations.
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### Subpart D—Specific Machinery Requirements

- 182.400 Applicability.
- 182.405 Fuel restrictions.
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- 182.415 Carburetors.
- 182.420 Engine cooling.
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- 182.425 Engine exhaust cooling.
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- 182.435 Integral fuel tanks.
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- 182.445 Fill and sounding pipes for fuel tanks.
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- 182.455 Fuel piping.
- 182.458 Portable fuel systems.
- 182.460 Ventilation of spaces containing machinery powered by, or fuel tanks for, gasoline.
- 182.465 Ventilation of spaces containing diesel machinery.
- 182.470 Ventilation of spaces containing diesel fuel tanks.
- 182.480 Flammable vapor detection systems.

### Subpart E—Bilge and Ballast Systems

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- 182.510 Bilge piping system.
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- 182.600 General.
- 182.610 Main steering gear.
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- 182.700 General.
- 182.710 Piping for vital systems.
- 182.715 Piping subject to more than 1,034 kPa (150 psig) in non-vital systems.
- 182.720 Nonmetallic piping materials.
- 182.730 Nonferrous metallic piping materials.

AUTHORITY: 46 U.S.C. 3306; E.O. 12234, 45 FR 58801, 3 CFR, 1980 Comp., p. 277; Department of Homeland Security Delegation No. 0170.1.

SOURCE: CGD 85-080, 61 FR 986, Jan. 10, 1996, unless otherwise noted.