§ 108.451 CO₂ storage.

(a) Except as provided in paragraph (b) of this section, each cylinder of a CO₂ system must be outside each space protected by the system and in a location that would be accessible if a fire occurred in any space protected by the system.

(b) A CO₂ system that has a CO₂ supply of 136 kilograms (300 pounds) or less may have one or more cylinders in the space protected by the system if the space has a heat detection system to activate the system automatically in addition to the remote and manual controls required by this subpart.

(c) Each space that contains cylinders of a CO₂ system must be ventilated and designed to prevent an ambient temperature of more than 54 °C. (130 °F.).

(d) Each cylinder in a CO₂ system must be securely fastened, supported, protected from damage, in an accessible location, and capable of removal from that location.

(e) Each unit must have a means for weighing cylinders of a CO₂ system.

(f) A cylinder in a CO₂ system may not be mounted in a position that is inclined more than 30° from a vertical position, except that a cylinder having flexible or bent siphon tubes may be mounted in a position that is inclined up to 80° from the vertical. The bottom of each cylinder when mounted must be at least 5 centimeters (2 inches) from the deck.

(g) If a cylinder does not have a check valve on its independent cylinder discharge, it must have a plug or cap to close the outlet when the cylinder is moved.


§ 108.453 Discharge outlets.

Each discharge outlet must be of an approved type.

§ 108.455 Enclosure openings.

(a) Mechanical ventilation for spaces protected by a CO₂ system must be designed to shut down automatically when the system is activated.

(b) Each space that is protected by a CO₂ system and that has natural ventilation must have a means for closing the openings to the space from outside the space:

1. Doors, shutters, or dampers for closing each opening in the lower portion of the space.

2. Doors, shutters, dampers or temporary means such as canvas or other material normally on board a unit may be used for closing each opening in the upper portion of the space.

§ 108.457 Pressure release.

Each air tight or vapor tight space, such as a paint locker, that is protected by a CO₂ system must have a means for releasing pressure that accumulates within the space if CO₂ is discharged into the space.

§ 108.458 General.

Halogenated gas extinguishing systems may be installed if approved by the Commandant.

§ 108.459 Number and location of outlets.

(a) A foam extinguishing system in a space must have enough outlets to spread a layer of foam of uniform thickness over the deck or bilge areas of the space.

(b) A foam extinguishing system in a space that has a boiler on a flat that is