
M57 Use of ammonia as a refrigerant

(1993)

1. Ammonia refrigerating machinery shall be installed in dedicated gastight compartments. Except for small compartments, at least two access doors are to be provided.
2. Compartments containing ammonia machinery (including process vessels) are to be fitted with:
 - a) a negative ventilation system independent of ventilation systems serving other ship spaces and having a capacity not less than 30 changes per hour based upon the total volume of the space; other suitable arrangements which ensure an equivalent effectiveness may be considered;
 - b) a fixed ammonia detector system with alarms inside and outside the compartment;
 - c) water screens above all access doors, operable manually from outside the compartment;
 - d) an independent bilge system.
3. At least two sets of breathing apparatus and protective clothings are to be available.
4. Ammonia piping is not to pass through accommodation spaces.
5. In case of ammonia plants of fishing vessels under 55 m in length or other ammonia plants with a quantity of ammonia not greater than 25 kg said plants are allowed to be located in the machinery space.

The area where the ammonia machinery is installed is to be served by a hood with a negative ventilation system, so as not to permit any leakage of ammonia from dissipating into other areas in the space.

A water spray system is to be provided for the said area.

In addition previous items 2 b), 3 and 4 apply.

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