

National Marine Manufacturers Association

Compliance Specialist Exam

Ventilation of Boats Using Gasoline (2022 MY)

ABYC H-2 (7/13)

1. A manufacturer wishes to use a single blower on a small inboard boat. If the net volume of the engine space is 60-ft³, what is the minimum CFM (ft³/min) of the rated blower capacity?
 - a. 50 ft³/min
 - b. 60 ft³/min
 - c. 90 ft³/min
 - d. 120 ft³/min

2. The blower operation warning label shall be:
 - a. Placed in a location of frequent service.
 - b. Installed near the primary engines.
 - c. Located at each ignition switch.
 - d. Located at the primary helm only.

3. An engine space equipped with two propulsion gasoline engines and a gasoline generator, shall be provided with:
 - a. Two powered ventilation blowers.
 - b. Three powered ventilation blowers or one for each gasoline engine.
 - c. One powered ventilation blower meeting the CFM requirements for the compartment's net volume.
 - d. None of the above.

4. On a boat with multiple blowers, the blowers must:
 - a. Be simultaneously operated by one switch and each blower protected by a single breaker or fuse
 - b. Have a single switch located within seven inches of the source of power
 - c. Have separate switches and be protected by a shared fuse or breaker
 - d. Be simultaneously operated by one switch and each blower protected by a separate breaker or fuse

5. What is the minimum diameter for duct hoses permitted within application of the H-2 standard?
 - a. 1.25-in
 - b. 2.5-in
 - c. 2.0-in
 - d. 4.9-in

6. Exhaust duct intakes in a gasoline engine compartment must be:
 - a. Permanently fixed and self-draining
 - b. Routed to the lower one-third of the compartment
 - c. Located above the normal accumulation of bilge water
 - d. All of the above

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7. A compartment is open to the atmosphere if:
 - a. The compartment is in communication with a weatherdeck.
 - b. The compartment has at least 15 square inches of net open area directly exposed to the atmosphere for each cubic foot of net compartment volume.
 - c. The compartment has less than one cubic foot of net volume.
 - d. None of the above.

8. If the space under an outboard motor well is large enough for a six gallon portable fuel tank but is not intended for such use:
 - a. A “no ventilation is provided” warning label shall be installed.
 - b. The space shall be redesigned to prevent tank storage
 - c. A natural ventilation system shall be installed
 - d. A note shall be made in the owner’s manual

9. If a space is to be considered open to the atmosphere and has a length to width ratio greater than 1:5, it should have:
 - a. An opening only in the bottom of the compartment.
 - b. Have only one end of the compartment open in order to limit the circulation of vapors.
 - c. Openings at both ends of the compartment.
 - d. None of the above

10. Natural ventilation shall be provided for all of the following except:
 - a. A compartment with a metallic fuel tank on an outboard powered boat
 - b. A compartment containing a “Low CO” gasoline generator
 - c. A designated compartment for a portable gasoline tank that vents into the compartment
 - d. A compartment with a gasoline propulsion engine

11. The required separation between external ventilation openings and fuel fills and fuel vents is 15”. The correct way to measure this is from the opening of the vent scoop to the fuel fitting.
 - a. True
 - b. False

12. If a compartment has a net volume of 335 cubic feet, what is the minimum aggregate cross-sectional area required for the ducts?
 - a. 21-in² for the exhaust and 21-in² for the intake ducts
 - b. 10.5-in² for the exhaust and 10.5-in² for the intake ducts
 - c. 10.5-in² for the exhaust and 21-in² for the intake ducts
 - d. 21-in² for the exhaust and 10.5-in² for the intake ducts

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13. What is the net compartment volume for an engine compartment 110-inches wide by 90-inches long by a depth of 40-inches, and the space is equipped with the following: two gasoline engines (4.5 cubic feet each) and two 4D starting batteries (1 cubic foot each)?
 - a. 214 cubic feet
 - b. 218 cubic feet
 - c. 220 cubic feet
 - d. 224 cubic feet

14. When calculating the net volume of an engine compartment, which of the following cannot be deducted?
 - a. Permanently installed fuel tanks
 - b. Portable ballast tanks
 - c. Primary propulsion engine
 - d. Auxiliary batteries

15. A gasoline engine compartment requires 17-in² of cross sectional area for the natural ventilation exhaust ducts. Which of the following duct sizes would meet the minimum requirements if two ducts were used?
 - a. 3.5-inch diameter
 - b. 2.5-inch diameter
 - c. 3-inch diameter
 - d. 4-inch diameter