

## Cat. No. 0488 Series Evaporative Emissions Air Fuel Separator Installation Instructions

### Location

Air Fuel Separators are mounted on vent lines between fuel tank vents and carbon canisters or pressure relief valves. Air Fuel Separators must be mounted above the highest point fuel levels can reach when a full tank is at maximum vent test tilt. (+/- 17° bow to stern for boats under 26 ft. and +/- 4° bow to stern for boats 26 ft. and over. Reference A.B.Y.C. H-24).

Thought must be given to the following when choosing a location(see diagram #1):

- The hose connections to the Air Fuel Separator must be accessible for inspection and service.
- The Air Fuel Separator should not be mounted in a location where it will be stepped on or otherwise have a force exerted upon it.
- The Air Fuel Separator must be mounted within 45 degrees of vertical with the two barb-end facing downward.
- The Air Fuel Separator is designed to withstand a temperature range from -40° C to 80° C.
- If mounted in the engine compartment, the Air Fuel Separator must have a heat shield (this is an optional component that will be integral to the Air Fuel Separator).



Fig. 0488



Fig. 0488  
w/ Heat Shield

### System Requirements

The vent system must contain fuel inside the system and prevent it from reaching either a carbon canister or the outside of the system. It must also prevent water from entering the canister or Air Fuel Separator. When designing your fuel system, you must also consider fuel expansion and situations such as storage of the vessel with a full tank on an incline.

### Mounting of the Air Fuel Separator

The Air Fuel Separator (with the bracket) is designed to be mounted with (4) #10 flat head or oval head screws. If the installer chooses to mount the Air Fuel Separator in some other fashion (not using the end brackets), they are responsible for the validation of the mounting.

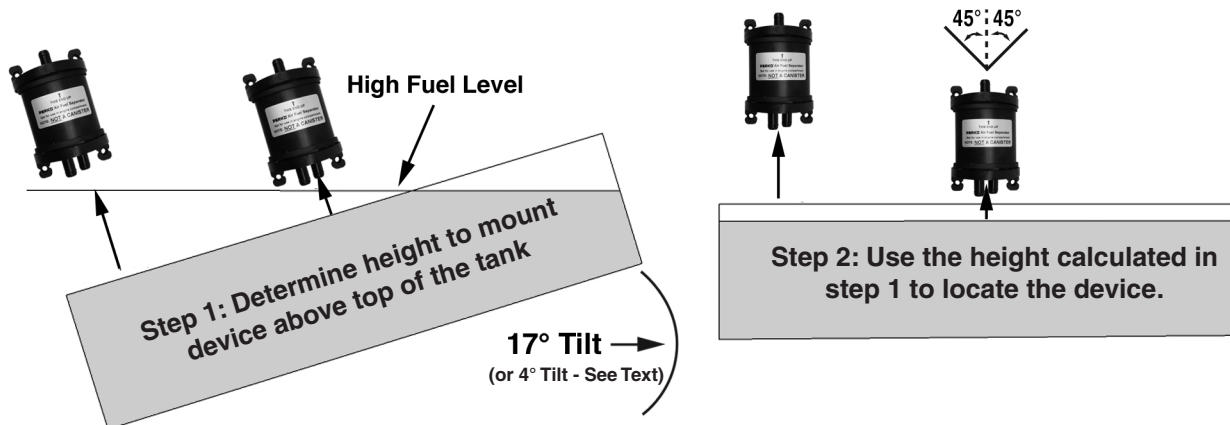
### Connection of the Vent Line to the Air Fuel Separator

The vent hose must be anchored to the boat structure within 6 inches of the Air Fuel Separator fittings. The vent hose must be routed to prevent a load from being exerted onto the Air Fuel Separator fittings.

**NOTE:** Hose clamps must be used in accordance with ABYC Fuel System Vent Hose Clamping Standards (H24 Table 3). The clamp must not distort the fitting on the Air Fuel Separator when tightened.

### Diagram 1

2 Examples: Mount near center of tank or mount near end of tank



**NOTE:** In the above example, The further the AF Separator is from the center of the tank (bow to stern), the higher it must be positioned above the tank to assure that it is above the highest point fuel levels can reach when a full tank is at maximum vent test tilt (+/- 17° bow to stern for boats under 26 ft. and +/- 4° bow to stern for boats 26 ft. and over. Reference A.B.Y.C. H-24).