Lifeguard

Fuel/Air Separators



The next time you fill up, watch your fuel vent line. A typical refueling will send up to half a gallon or more of fuel spilling overboard. Fuel spillage is not only expensive, it's absolutely deadly to fragile lakes, rivers, and waterways. Also, USCG and other regulations prohibit the discharge of oils with civil and criminal penalties. Installed in the fuel tank vent line, the Racor Fuel/Air Separator efficiently separates air from fuel forced into the line. Air is vented, and all fuel is returned to the tank. The Fuel/Air Separator captures fuel normally discharged due to agitation and thermal expansion up to 2.4 PSI (0.17 bar). It also eliminates damage to expensive striping, labels, and protects finishes from fuel stains. The unit is maintenance freethere's nothing to rust or corrode.



Contact Information

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The Racor Fuel/Air Separator fits neatly into your vent line, actually replacing a section of the line and fittings are included with each kit. One Fuel/Air Separator unit is required for each vent line. Fuel/Air Separators fit 5/8" vent lines, 1/2" fittings are available.





How They Work

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LG50 (for gasoline)

Stage 1:

Venting tank fuel is diffused by the flow diverter and air is allowed to bypass the diverter. Fuel is directed back into the fuel tank.

Stage 2:

Vapor collects on the interior surfaces and coalesces. The fuel returns downward by gravity and air continues up and out of the unit.



LG100 (for diesel/gasoline) Stage 1:

Venting tank fuel is diffused by the flow diverter and air is allowed to bypass the diverter. Fuel is directed back into the fuel tank.

Stage 2:

Fuel de-foams through a fine wire mesh screen which filters out large contaminates. Under the screen, the fuel collects temporarily until it can freely flow back to the fuel tank.

Stage 3:

Vapor collects on the interior surfaces and coalesces. The fuel returns downward by gravity and air continues up and out of the unit.

Note: The safety relief valve includes a floating check ball which will not permit a large in-rush of fuel to bypass. In the event of internal pressure reaching 2.4 PSI (0.17 bar), the spring will compress and open the safety seat.

The Lifeguard fuel / air separator is designed to be installed in--line in your existing fuel tank vent hose to prevent fuel spillage into the waterways. This saves you money in fuel costs while protecting our environment.





Specifications	LG50	LG100
Application: Gasoline Diesel	Yes No	Yes Yes
Maximum Air Flow	12 CFM (340 I/m)	17 CFM (481 I/m)
Hose Barb ¹	5/8"	5/8"
Thermal Expansion	Up to 2.4 PSI (0.17 bar)	Up to 2.4 PSI (0.17 bar)
Height	6.0 in. (15.2 cm)	9.8 in. (24.9 cm)
Diameter	1.8 in. (4.6 cm)	4.0 in. (10.2 cm)
Weight (dry)	1.2 lbs (0.5 kg)	1.6 lbs (0.7 kg)

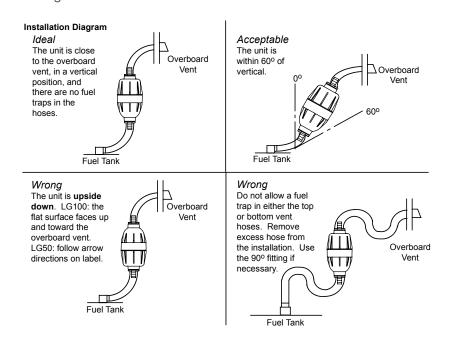
Notes: 1 Order part RK 50033 for 1/2" NPTF threaded fitting)

Mounting considerations

Do not mount or attach the Lifeguard unit to the engine or near any source of extreme heat.

Ensure the unit will be installed UP, within 60o of vertical as shown in the diagram below.

A 90o elbow is supplied for convenience and ease of installation. All fittings are interchangeable.



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