

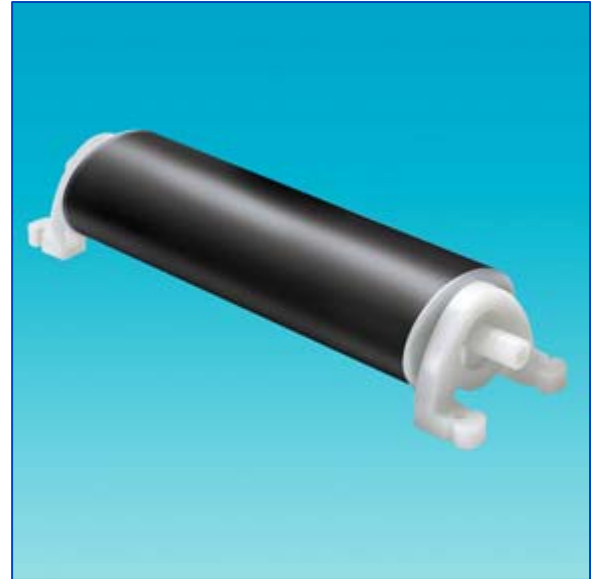
Delphi Marine Evaporative Emissions Canisters

Delphi Marine Evaporative Emissions Canisters help limit the amount of gasoline vapors released into the environment by reducing evaporative emissions that can escape from fuel storage in boats with built-in fuel tanks. As the vapors enter the canister, hydrocarbon molecules in the vapors are attracted to, and stored on, the surfaces of the carbon bed inside the canister. The canister is then passively purged as fresh air is drawn toward it and the vapors are returned to the fuel tank, thus limiting the hydrocarbon exposure to the atmosphere.

Delphi offers a family of Marine Evaporative Emissions Canisters to meet specific customer requirements. They are shaped and sized for flexible hull mounting.

► Benefits

- Help boat and hull builders and fuel tank manufacturers comply with U. S. Environmental Protection Agency (EPA) evaporative emissions standards
- Help manufacturers comply with recommendations and requirements by the American Boat and Yacht Council (ABYC) and the National Marine Manufacturers Association (NMMA)
- Canisters feature flexible mounting and compact packaging designs
- Plastic canister body enables various sizes, depending on application
- Marine-grade activated carbon achieves lower moisture adsorption compared with automotive carbon
- Mounting brackets allow movement of the bracket without stressing the canister body



Delphi Marine Evaporative Emissions Canister

► Typical Applications

Delphi Marine Evaporative Emissions Canisters are tailored for gasoline powered boats with built-in fuel tanks.

► Canister Sizing versus Fuel Tank Size

| Boat Length < 26 Feet | | Boat Length > 26 Feet | |
|-----------------------|----------------|-----------------------|----------------|
| Canister (Liters) | Tank (Gallons) | Canister (Liters) | Tank (Gallons) |
| 1.0 | 25 | 1.0 | 62 |
| 1.5 | 37 | 1.5 | 93 |
| 2.0 | 50 | 2.0 | 125 |
| 3.0 | 75 | 3.0 | 187 |
| 4.0 | 100 | 4.0 | 250 |

This chart shows the recommended canister size for fuel tanks based on U. S. Environmental Protection Agency guidelines.

▶ Performance Advantages

Delphi Marine Evaporative Emissions Canisters are optimized for marine applications. They meet design, manufacture, test and application guidelines issued by the American Boat & Yacht Council. They are pre-tested to meet vibration, thermal, impact, vapor cycling and humidity environment requirements. Delphi Marine Canisters have also been in-service tested in boat fleets.

▶ The Delphi Advantage

Delphi is one of the world's leading manufacturers of evaporative emissions canisters and systems. With more than 35 years' experience in the field, Delphi has the expertise and the in-depth knowledge to meet customer specifications for evaporative emissions systems performance and quality. Delphi offers full systems support and certification capabilities.

Delphi offers low-cost manufacturing for evaporative emissions systems to help boat and hull builders and fuel tank manufacturers meet evolving evaporative emissions criteria and changing marine designs.

Delphi is a leader in engine management systems and offers a complete portfolio. This expertise is helping manufacturers around the world meet increasingly stringent emissions regulations and fuel economy and performance objectives, without compromising quality or value.