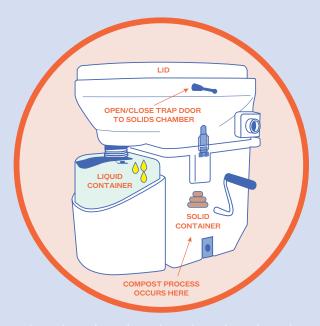
CONSIDER A COMPOSTABLE MARINE TOILET

Eco-friendly, Economical, and Easy

Compostable toilets are considered Type III Marine Sanitation Devices (MSDs) and meet U.S. Coast Guard "no discharge" requirements.

They are an entirely self-contained waterless system that serves as a safe, convenient, and eco-friendly sewage waste disposal option.

HOW DOES A COMPOSTABLE MARINE TOILET WORK?



1.

This system separates liquids from solids; when separated, the solids sit in a lower compartment that gets mixed with peat moss, sawdust, or coconut husk fibers and oxygen.



2.

Bacteria break down the solid waste by consuming nutrients such as carbon, nitrogen, and phosphorus which releases carbon dioxide and starts the composting process. The transformation of carbon to carbon dioxide creates heat, which warms up the organic mass. The high temperatures destroy disease-causing bacteria and protozoa. Oxygen aeration furthers the composting process.

3.

Once the compost is established, a black odor-free powder is left that's free of harmful bacteria. The compost solids should not be dumped overboard. Rather, it can be used as a soil amendment for indigestible plants or can be placed in a bag for disposal on land.

WHAT ARE THE BENEFITS?

Compostable marine toilets are a **waterless system**, so there's no plumbing required. Many compostable toilet users are enthused by this: with less complex plumbing comes saved time and money on maintenance and repairs.

Compostable toilets are **lighter in weight**. One boater found it replaced their roughly 150 pounds system for 35 pounds (when the latter is at its heaviest).

Compostable toilets have **less offensive odors**. Since the solids and liquids are separated, it doesn't create a typical sewage smell. Without the strong foul smell, there's **no need to use deodorizing chemicals** that can often be hazardous for the environment.

Lastly, you can **cruise the seas for long periods** without stressing or detouring to find the closest pumpout station.

WHAT ARE THE DISADVANTAGES?

Some of the toilets are taller than most and can take up **more space** in the head compartment.

Some composting units have a vent to circulate air, which helps facilitate the composting process. This fan can either come with the toilet or be installed separately, so **electricity usage may increase**.

The compostable marine system must be maintained and properly operated, or odor can be generated. Therefore, **extra attention** should be given to the liquid and solid compartments to prevent odor and to properly empty them as needed.





