



Total Maritime Services Pte Ltd

N E W S L E T T E R

Food Waste Disposal at Sea

Regulations

According to Annex V of MARPOL disposal of waste food is only allowed at a minimum distance of 12 nautical miles from shore. Any waste disposed into the sea has to be able to pass through a screen of mesh size no larger than 25mm

In addition to the 12-mile rule, no food waste is to be disposed in special protected areas and at or near any offshore installations.

The Problem

For many ships and all offshore installations this means that food waste disposal into the sea is prohibited. Even when not prohibited, the food waste needs treatment in order to pass through a 25 mm screen mesh before being disposed overboard.

Waste food must therefore on many ships be stored and later transported ashore. The transport and disposal is costly and troublesome. The waste food will also attract cockroaches and rats etc as well as being smelly.

The Marine Bio-Helper Solution

The Marine Bio-Helper is designed to biologically convert food waste into liquid using microbes to accelerate the natural decomposition process. The process takes 24 hours and the machine can be fed continuously.

The Marine Bio-Helper waste food disposal machine can be installed at the point where waste food is created, thereby eliminating any transport. The Marine Bio-Helper continuously converts food waste into water, which is simply drained into the Grey water or Black water system, eliminating any further disposal. As there is no storage of waste food all problems with regard to pest and foul smell is solved.

Marine Bio-Helper is, to our knowledge, the only food waste disposal machine that turns waste into water and thereby do not require any further treatment or transportation.

The Marine Bio-Helper is well proven under various names in homes, restaurants and hotels in Korea and North America.

Total Maritime Services Pte Ltd is the worldwide distributor of the Marine Bio-Helper for the Marine and Offshore industries.

Marine Bio-Helper Model Selection

Marine Bio-Helper has a range of consumption capacities from 30 kg/day and up to 1000 kg/day. All Models, except the smallest, comes with an optional bone crusher.

As a rule of thumb one may estimate that a total of 0.6 Kg of food waste is created per person onboard daily. This is the total amount of food waste created including waste from food preparation, left over on plates and serving counters as well as expired food.

The smallest Model (30 Kg/day) is the size of a normal household dishwashing machine. This Model is suitable for ships with up to 50 persons onboard.

Marine Bio-Helper Installation

The Marine Bio-Helper unit is simply installed as a stand-alone unit in the Galley or nearby. The machine requires power supply, water supply and connection to a drain point. The crew, without any external assistance, can thereby easily carry out the installation. For models without grinder the power requirement is 220V 1-phase, for models with grinder the power supply can be either 380V 3-phase 50Hz or 440V 3-phase 60Hz.

Marine Bio-Helper Maintenance

New microbes need to be added annually. Total Maritime Services Pte Ltd will send a packet of microbes to your vessels when required. The content is simply poured into the Marine Bio-Helper machine.

There will be some wear and tear on the knives in the bone crusher. These may need to be renewed every 3 – 4 years. This is a very simple task.

No other maintenance is expected. The machine is made in Stainless steel in order to withstand the marine environment and all components are IP44 rated.

Warranty

There is a one-year warranty on the machines. Service Engineer will also be provided free of charge for the first year, however travelling expenses will be charged at cost outside Singapore.

More Information on Marine Bio-Helper

For more information and firm offer please contact philip.goh@total-maritime.com.



MCP 100 Model with Grinder pictured

We are looking forward to be of your service.

Best Regards

Gisle Solhaug
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