

Proven Award-winning Treatment System



SaniLIFT[®]

MARINE PUMP LIFT STATION

B M S

BioSolids Management System



Complies with USEPA standards



Reliable performance for the life of the vessel



Tested with USCG protocol and certified to USCG, IMO, MARPOL & ABS standards



MARINE SEWAGE TRANSFER &
EXTENDED SLUDGE MANAGEMENT

BETTER WATER. BETTER WORLD.[®]

www.sciencoFAST.com

SIMPLE • LOW

SaniLIFT® MARINE PUMP LIFT STATION

The advantages of the **MarineFAST®** wastewater treatment systems (Type II Marine Sanitation Devices or MSDs) are to help keep the vessel in compliance, reduce sludge, and require no special maintenance or operation. Fully-certified **MarineFAST®** MSD systems handle any combination of fresh/saltwater sewage:

- **Self-Regulating Operation**
- **Superior Corrosion Protection**
- **Worldwide Technical Support**
- **Easy-To-Upgrade or Retrofit**
- **Long, Reliable Service Life**
- **Certified, Proven Process**

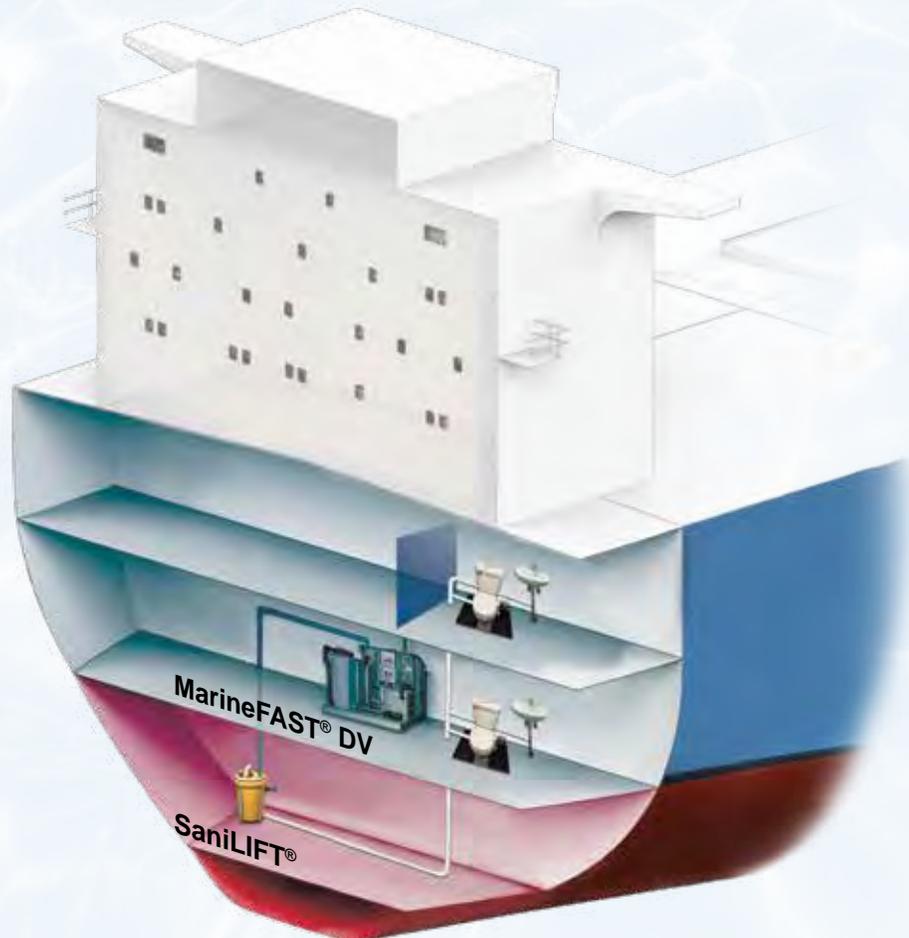
Install **SaniLIFT®** systems where heads & galleys are below decks from the onboard MSD units where the elevation of the source is not sufficient for gravity flow. When the **MarineFAST®** system is in above decks, a **SaniLIFT®** can be installed to transfer the wastewater up to the onboard marine sanitation unit.

Key elements of the SaniLIFT® marine pump stations include:

- ➔ **3 standard sizes of tanks**
- ➔ **Standard components of pumps, piping, and associated valves**
- ➔ **Equipment control panel and alarm system**
- ➔ **Optional grinding pump to break down large waste materials**



SaniLIFT® Lift station designed to move wastewater from lower decks to the Type II MSDs!



COST • ROBUST

MarineFAST[®]
SEWAGE TREATMENT SYSTEMS

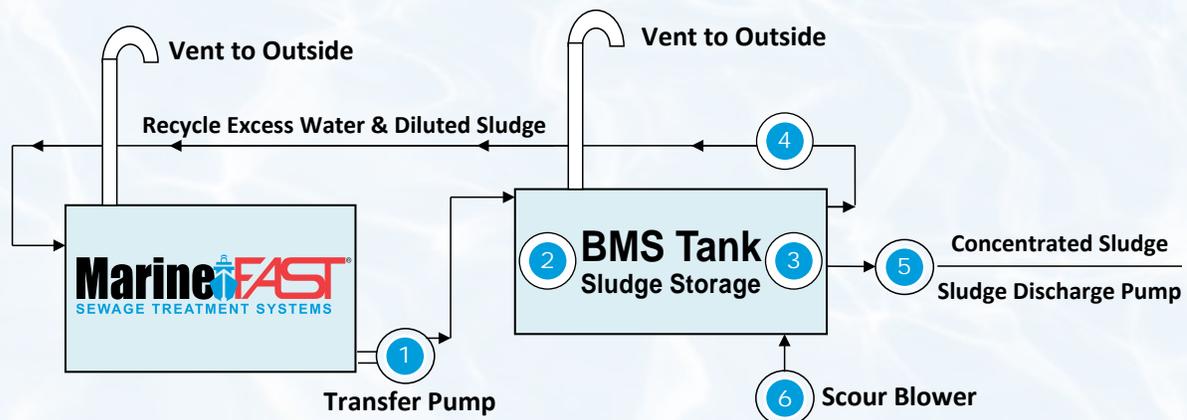
BMS BioSolids Management System

A certified **MarineFAST**[®] unit will meet the current requirements of the MEPC.159(55) type certification. If sampling is not required, it can operate without any need for pump out. It can also be equipped with long term sludge storage to permit sampling in service as may be required by regulations or by company policies. If the internal sludge storage capacity is not enough for a particular duty, the **MarineFAST**[®] Biosolids Management System will provide that additional capability.



The amount of sludge stored in the bottom of the treatment tank of a Marine Sanitation Device (MSD) affects the maintenance interval. Technically though, a “30/30”; that is, the ability to meet State requirements for effluent containing not more than 30 mg/l BOD5 and 30 mg/l TSS while removing not less than 85% of the influent amounts.

HOW IT WORKS



- 1** The **Transfer Pump** automatically moves the sludge-water mixture from the **MarineFAST**[®] tank to the **BMS Tank**.
- 2** In the **BMS Tank**, the sludge continues to be aerobically digested during storage. Because of the long detention time in the digester, the sludge is substantially reduced in mass and volume.
- 3** A rising liquid level in the **BMS Tank** shuts off the blower and allows sludge to settle to the bottom of the tank. This permits excess water to be pumped back to the **MarineFAST**[®] tank for additional treatment and compliant discharge to the sea.
- 4** Excess water, diluted sludge recycles back through the treatment process to further waste and feed the MSD system.
- 5** The **Sludge Discharge Pump** is used when ready to pump out the concentrated sludge to an OSV, to a larger tank provided by others, or to an incinerator, whatever best fits the special requirements of the vessel or platform.
- 6** **Scour Blower** provides aeration to ensure that the entire contents are mixed and stay fresher longer.



With decades of history unlike any other, the origins of SCIENCO® & FAST® can be traced back to the 1940's in St. Louis, MO for water and salt management systems. In 1981, Scienco/FAST combined to produce internationally recognizable top-quality water, wastewater, and

maintenance products focused on marine, commercial food and beverage, and agricultural market treatments with top-notch field services. SCIENCO®'s current commercial product lines combine proven performance with long-term reliability and many low-cost options.



Marine FAST

SEWAGE TREATMENT SYSTEMS

BioBarrier Marine MBR

MEMBRANE BIOREACTOR

PORTA / FAST

COMPLETE PORTABLE / PERMANENT RESTROOM

SCIENCO InTank BWTS

Ballast Water Treatment System

SCIENCO SciCHLOR

SCIENCO SciBRINE



BIO MICROBICS

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