

# Marine **FAST**<sup>®</sup>

SEWAGE TREATMENT SYSTEMS



*Reliable performance for the life of the vessel*



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



*Complies with USEPA standards*



**Advanced Marine Wastewater Treatment  
WORKBOATS • OFFSHORE • SHIPS**

# SIMPLE • LOW

## MarineFAST® SEWAGE TREATMENT SYSTEMS

MarineFAST® is a Type II Marine Sanitation Device (MSD) that treats wastewater generated by toilets, sinks, laundry, and galleys. MSDs allow a vessel to remain in compliance with environmental regulations regarding blackwater and greywater discharges.

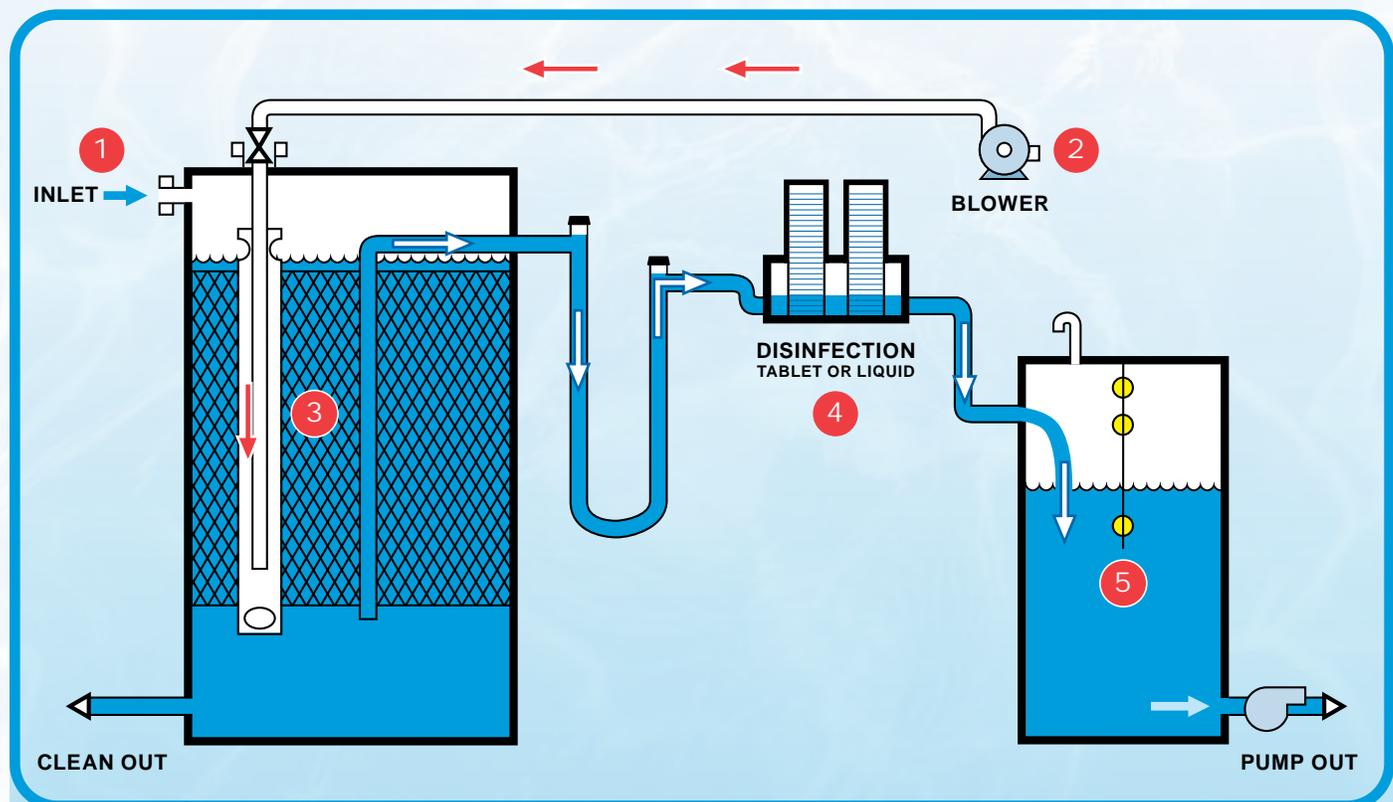
Certified to USCG and IMO effluent standards, these pre-engineered, automated wastewater treatment systems use proven FAST® attached growth technology. These systems can be used for new builds or retrofits of many types of vessels.

### System Sizing

MarineFAST® units are sized according to crew size and wastewater flow. Our engineering staff will be happy to help you select the best treatment and transfer system for the vessel. Email [solutions@sciencofast.com](mailto:solutions@sciencofast.com) for assistance on model sizing

## HOW IT WORKS!

- 1 Wastewater enters the system from vacuum systems, gravity collection systems or from an existing holding tank.
- 2 A blower provides air to the airlift inside the media tank.
- 3 The airlift circulates aerated wastewater throughout the tank. Aerobic microorganisms digest organic material in the tank, using the air for their respiration.
- 4 Treated effluent passes through the media tank spillover pipe into the wet well for disinfection.
- 5 In the wet well (aka chlorine contact tank), treated effluent rests until the chlorine has had enough time to kill lingering bacteria. Float switches (in yellow) automatically operate a discharge pump.



# COST • ROBUST

## STANDARD MODELS



LX

### LX-Series: Non-metallic *modular* systems for smaller vessels

Model Number - all except MEPC	L-1X	L-2X	L-3X	L-4X	L-5X	L-6X
Model Number - MEPC units only	L-1XM	L-2XM	L-3XM	L-4XM	L-5XM	L-6XM
<b>Rated capacity people</b>						
blackwater only	6	8	12	16	14	28
above plus showers & hand sinks	5	6	9	12	11	21
above plus dishwashing & laundry	2	3	5	6	6	11
above plus ground food waste	2	2	3	5	4	8
<b>Rated capacity gpd</b> [m <sup>3</sup> /d]	130 [0.5]	190 [0.7]	250 [0.9]	380 [1.4]	400 [1.5]	780 [3.0]
<b>Recommended max gpd</b> [m <sup>3</sup> /d]	<b>110</b> [0.4]	<b>160</b> [0.6]	<b>230</b> [0.9]	<b>320</b> [1.2]	<b>280</b> [1.1]	<b>570</b> [2.2]
<b>Number of Media Treatment Tanks</b>	1	1	2	2	1	2



MX

### MX Series: Complete steel *pre-piped* system; larger than LX Series

Model Number - all except MEPC	MX-1	MX-2	MX-3	MX-4	MX-5
Model Number - MEPC units only	MX-1M	MX-2M	MX-3M	MX-4M	MX-5M
<b>Rated capacity people</b>					
blackwater only	13	20	29	43	65
above plus showers & hand sinks	10	15	22	33	49
above plus dishwashing & laundry	5	8	12	17	26
above plus ground food waste	4	6	8	12	18
<b>Rated capacity gpd</b> [m <sup>3</sup> /d]	340 [1.3]	510 [1.9]	720 [2.7]	1100 [4.2]	1700 [6.4]
<b>Recommended max gpd</b> [m <sup>3</sup> /d]	270 [1.0]	400 [1.5]	570 [2.2]	870 [3.3]	1300 [4.9]
<b>Number of Media Treatment Tanks</b>	1	1	1	2	2

Custom designs  
available!

Systems come with the  
following components:

- Media Tank and Wetwell
- Aeration Blower
- Automatic controls

### M Series: Complete steel *modular* system; size equivalent to MX Series

Model Number - all except MEPC	M-1	M-2	M-3	M-4	M-5
Model Number - MEPC units only	M-1M	M-2M	M-3M	M-4M	M-5M
<b>Rated capacity people</b>					
blackwater only	13	20	30	40	61
above plus showers & hand sinks	10	15	23	30	46
above plus dishwashing & laundry	5	8	12	16	25
above plus ground food waste	4	6	8	11	17
<b>Rated capacity gpd</b> [m <sup>3</sup> /d]	340 [1.3]	510 [1.9]	720 [2.7]	1100 [4.2]	1700 [6.4]
<b>Recommended max gpd</b> [m <sup>3</sup> /d]	270 [1.0]	400 [1.5]	610 [2.3]	810 [3.1]	1200 [4.5]
<b>Number of Media Treatment Tanks</b>	1	1	1	2	2

Systems from any of the series can be customized if necessary. Please consult factory for assistance.





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

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



from 100 m³ gpd



to 1200 m³ gpd

## SciencoFAST® Type-II MSDs

*Certified to USCG and IMO effluent standards.*

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