



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® 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.

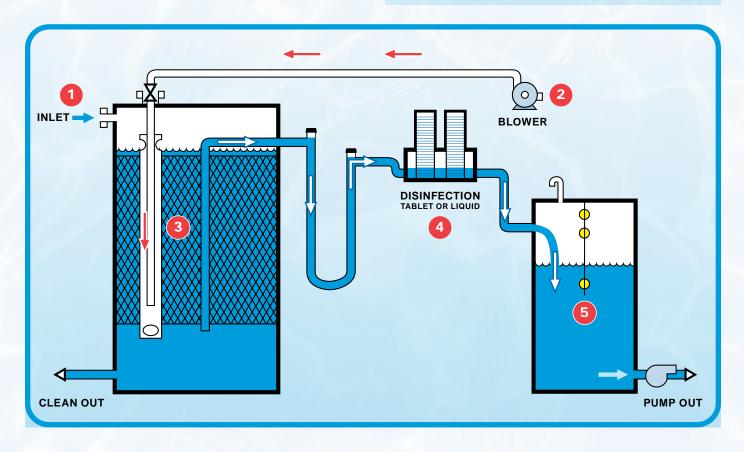
Certified to USCG and IMO effluent standards, these pre-engineered, automated wastewater treatment systems use proven FAST® attached growth technology. These systems can be used for new builds or retrofits of many types of vessels.

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 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.
- A blower provides air to the airlift inside the media tank.
- The airlift circulates aerated wastewater throughout the tank. Aerobic microorganisms digest organic material in the tank, using the air for their respiration.
- Treated effluent passes through the media tank spillover pipe into the wet well for disinfection.
- 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

LX



STANDARD MODELS

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
Rated capacity people						
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
Rated capacity gpd	130	190	250	380	400	780
[m³/d]	[0.5]	[0.7]	[0.9]	[1.4]	[1.5]	[3.0]
Recommended max gpd	110	160	230	320	280	570
[m³/d]	[0.4]	[0.6]	[0.9]	[1.2]	[1.1]	[2.2]
Number of Media Treatment Tanks	1	1	2	2	1	2

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
Rated capacity people					
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
Rated capacity gpd	340	510	720	1100	1700
[m³/d]	[1.3]	[1.9]	[2.7]	[4.2]	[6.4]
Recommended max gpd	270	400	570	870	1300
[m³/d]	[1.0]	[1.5]	[2.2]	[3.3]	[4.9]
Number of Media Treatment Tanks	1	1	1	2	2

MX

Custom designs available!

Systems come with the following components:

- Media Tank and Wetwell
- Aeration Blower
- Automatic controls

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
Rated capacity people					
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
Rated capacity gpd	340	510	720	1100	1700
[m³/d]	[1.3]	[1.9]	[2.7]	[4.2]	[6.4]
Recommended max gpd	270	400	610	810	1200
[m³/d]	[1.0]	[1.5]	[2.3]	[3.1]	[4.5]
Number of Media Treatment Tanks	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 SCIENCO® & 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

SciencoFAST® Type-II MSDs



to 1200 m³ gpd

Certified to USCG and IMO effluent standards.

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