

FAST MX-Series Reference Data - English Units					
Model Number - all except MEPC.227(64)	MX-1	MX-2	MX-3	MX-4	MX-5
Model Number - MEPC.227(64) units only	MX-1M	MX-2M	MX-3M	MX-4M	MX-5M
Rated Capacities - persons					
33CFR159 (note 1)	15	23	34	52	78
MEPC.227(64) (note 2)	13	20	29	43	65
Overall Dimensions - in					
Length	67	83	86	86	110
Width	37	39	40	51	51
Height With Blower Installed	66	66	78	78	78
Estimated Weights - lb					
Shipping	1,100	1,400	1,600	2,000	2,500
Operating	2,500	3,400	4,100	5,800	7,800
Pipe Sizes - in					
Sewage Inlet	4	4	4	4	4
Effluent Pump	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Discharge Pump	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
Vent	3	3	3	4	4
Connected Motor Horsepower					
Effluent Pump	1/3	1/3	1/3	1/3	1/3
Discharge Pump	1	1	1	1	1
Turbine Blower	3/4	1 1/2	1 1/2	2 1/2	2 1/2
Roots Blower	1	1	1	1 1/2	2
Pump TDH Available at 60Hz - ft					
Effluent Pump	20	20	20	20	20
Discharge Pump	40	40	40	40	40
Notes					
1. USCG inspected vessels in US waters, may also be suitable for river, coastal or harbor service in other countries.					
2. Worldwide operation, one month estimated internal sludge storage.					
3. For special treatment requirements or longer sludge storage periods consult factory.					
4. Dimensions and weights shown for standard MEPC units with PAA disinfection.					
6. Reference data only, not for construction					

Sewage Service Factors	
Type of waste	factor
personal washwater	0.32
laundry	0.36
dishwashing	0.80

all graywater	1.48
blackwater	1.00

blackwater & all graywater	2.48
ground food waste	1.06

all domestic sewage	3.54

Scienco/FAST Division, Bio-Microbics, Inc.
12977 Maurer Industrial Drive
St.Louis, MO 63127-1515
tel: (314)756-9300, fax: (314)756-9306
email: solutions@sciencofast.com
URL: www.sciencofast.com

Summary of Requirements
USCG 33CFR159 - 150 TSS, 200 fecal
MARPOL 73/78 - 50 BOD5, 50 TSS, 250 fecal
MARPOL 2010 - 25 BOD5, 35 TSS, 125 COD, 100 fecal
USEPA secondary - 85% removal, 30 BOD5, 30 TSS

Sizing and Selecting Units
1. Rated capacities shown are for treatment of blackwater only for persons working and living aboard. If persons work but do not live aboard, count each of these as one-half person.
2. If other types of sewage are to be treated in addition to blackwater, add the applicable factors to obtain a total service factor. When treating graywater only use service factor that does not include blackwater.
3. Multiply the number of live-on persons by the service factor to obtain equivalent blackwater persons. Use this figure to select the correct unit.

FAST MX-Series Reference Data - Metric Units					
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Rated Capacities - persons					
33CFR159 (note 1)	15	23	34	52	78
MEPC.227(64) (note 2)	13	20	29	43	65
Overall Dimensions - mm					
Length	1,700	2,100	2,175	2,175	2,800
Width	950	1,000	1,025	1,300	1,300
Height With Blower Installed	1,675	1,675	1,975	1,975	1,975
Estimated Weights - kg					
Shipping	850	700	800	1,000	1,200
Operating	1,500	1,650	2,000	2,750	3,700
Pipe Sizes - mm					
Sewage Inlet	100	100	100	100	100
Effluent Pump	38	38	38	38	38
Discharge pump	31	31	31	31	31
Vent	75	75	75	100	100
Connected Motor KW					
Effluent Pump	0.25	0.25	0.25	0.25	0.25
Discharge Pump	0.75	0.75	0.75	0.75	0.75
Turbine Blower	0.75	0.75	0.75	0.75	0.75
Roots Blower	0.75	0.75	0.75	1.13	1.50
Pump TDH Available at 50Hz - m					
Effluent Pump	n/a	n/a	n/a	n/a	n/a
Discharge Pump	8	8	8	8	8
Notes					
1. USCG inspected vessels in US waters, may also be suitable for river, coastal or harbor service in other countries.					
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3. For special treatment requirements or longer sludge storage periods consult factory.					
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