

FAST MX-Series Reference Data - English Units					
Model Number - all except MEPC.159(55)	MX-1	MX-2	MX-3	MX-4	MX-5
Model Number - MEPC.159(55) units only	MX-1M	MX-2M	MX-3M	MX-4M	MX-5M
Rated Capacities - persons					
33CFR159 (note 1)	15	23	35	52	78
MEPC.159(55) or secondary treatment (note 2)	13	20	29	43	65
MEPC.159(55) or secondary treatment (note 3)	10	15	20	30	46
Overall Dimensions - in					
Length	67	84	84	86	108
Width	34	33	33	45	45
Height With Blower Installed	64	66	78	78	78
Estimated Weights - lb					
Shipping	1,500	1,700	1,900	2,300	2,800
Operating	2,700	3,600	4,300	5,900	7,900
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 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Vent	3	4	3	4	5
Motor Horsepowers					
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
Notes					
1. USCG inspected vessels in US waters.					
2. Worldwide operation, one month estimated internal sludge storage.					
3. Worldwide operation, two to three months estimated internal sludge storage.					
4. Dimensions shown for 33CFR159 units. Weights shown for heavier MEPC units.					
5. Dimensions and weights are approximate and based upon assumed machinery and regulatory requirements.					
6. Reference data only, not for construction					

Sewage Service Factors	
Type of waste	factor
blackwater	1.00
personal washwater	0.32
laundry	0.36
dishwashing	0.80

blackwater & all graywater	2.48
ground food waste	1.06

all domestic sewage	3.54

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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

- 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.
- If other types of sewage are to be treated in addition to blackwater, add the applicable factors to obtain a total service factor.
- 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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MEPC.159(55) or secondary treatment (note 3)	10	15	20	30	46
Overall Dimensions - cm					
Length	170	213	213	218	274
Width	86	84	84	114	114
Height With Blower Installed	163	168	198	198	198
Estimated Weights - kg					
Shipping	700	800	900	1,100	1,300
Operating	1,200	1,600	1,900	2,700	3,600
Pipe Sizes - mm					
Sewage Inlet	100	100	100	100	100
Effluent Pump	38	38	38	38	38
Discharge pump	38	38	38	38	38
Vent	75	100	75	100	125
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	0.56	1.12	1.12	1.87	1.87
Notes					
1. USCG inspected vessels in US waters.					
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3. Worldwide operation, two to three months estimated internal sludge storage.					
4. Dimensions shown for 33CFR159 units. Weights shown for heavier MEPC units.					
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