

FAST M-Series Reference Data - English Units					
Model Number - all except MEPC.227(64)	M-1	M-2	M-3	M-4	M-5
Model Number - MEPC.227(64) units only	M-1M	M-2M	M-3M	M-4M	M-5M
Rated Capacities - persons					
33CFR159 (note 1)	15	23	35	47	71
MEPC.227(64) or secondary treatment (note 2)	13	20	31	41	62
Number of Media Tanks	1	1	1	2	2
Overall Dimensions - in					
Media Tank					
Length	47	63	87	63	87
Width (note 5)	39	39	39	39	39
Height With Blower Installed	98	97	95	113	109
Wet Well (Contact Tank)					
Length	37	38	38	38	43
Width	27 1/2	27 1/2	27 1/2	27 1/2	27 1/2
Height	52	52	52	52	52
Estimated Weights - lb					
Shipping	1,300	1,600	2,000	2,700	3,600
Operating	2,600	3,300	4,500	6,000	8,600
Pipe Sizes					
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	4	4	6	6
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	1 1/2	2 1/2
Roots Blower	1	1	1 1/2	2	5
Pump TDH Available at 60Hz - ft					
Effluent Pump	20	20	20	20	20
Discharge Pump	40	40	40	40	40
<b>Notes</b>					
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.					
5. With dechlor contactor dismounted, unit will pass through 28" X 60" WT door.					
6. Reference data only, not for construction.					

Sewage Service Factors	
Type of waste	factor
personal washwater	0.32
laundry	0.36
dishwashing	0.80
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all graywater	1.48
blackwater	1.00
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blackwater & all graywater	2.48
ground food waste	1.06
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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. When treating graywater only use service factor that does not include blackwater.
- 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 M-Series Reference Data - Metric Units					
Model Number - all except MEPC.227(64)	M-1	M-2	M-3	M-4	M-5
Model Number - MEPC.227(64) units only	M-1M	M-2M	M-3M	M-4M	M-5M
Rated Capacities - persons					
33CFR159 (note 1)	15	23	35	47	71
MEPC.227(64) or secondary treatment (note 2)	13	20	31	41	62
Number of Media Tanks					
	1	1	1	2	2
Overall Dimensions - mm					
Media Tank					
Length	1,200	1,600	2,200	1,600	2,200
Width (note 5)	1,000	1,000	1,000	1,000	1,000
Height With Blower Installed	2,500	2,475	2,425	2,875	2,775
Wet Well (Contact Tank)					
Length	950	975	975	975	1,100
Width	700	700	700	700	700
Height	1,325	1,325	1,325	1,325	1,325
Estimated Weights - kg					
Shipping	600	700	900	1,200	1,600
Operating	1,200	1,500	2,000	2,700	3,900
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	100	100	150	150
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	1.13	1.13	1.13	1.88
Roots Blower	0.75	0.75	1.13	1.50	3.75
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
<b>Notes</b>					
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.					
5. With dechlor contactor dismounted, unit will pass through 71cm X 152 cm WT door.					
6. Reference data only, not for construction.					

Sewage Service Factors	
Type of waste	factor
personal washwater	0.32
laundry	0.36
dishwashing	0.80
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all graywater	1.48
blackwater	1.00
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blackwater & all graywater	2.48
ground food waste	1.06
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all domestic sewage	3.54

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