

FAST M-Series Reference Data - English Units					
Model Number - all except MEPC.159(55)	M-1	M-2	M-3	M-4	M-5
Model Number - MEPC.159(55) units only	M-1M	M-2M	M-3M	M-4M	M-5M
Rated Capacities - persons					
33CFR159 (note 1)	15	23	35	47	70
MEPC.159(55) or secondary treatment (note 2)	13	20	30	41	61
MEPC.159(55) or secondary treatment (note 3)	10	15	23	31	47
Number of Media Tanks	1	1	1	2	2
Overall Dimensions - in					
Media Tank					
Length	47	63	87	63	87
Width	27 1/2	27 1/2	27 1/2	27 1/2	27 1/2
Height With Blower Installed	64	66	66	66	67
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	1,500	1,700	2,100	2,800	3,700
Operating	2,700	3,500	4,600	6,100	8,700
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	5	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	2 1/2	2 1/2
<b>Notes</b>	<p>1. USCG inspected vessels in US waters.</p> <p>2. Worldwide operation, one month estimated internal sludge storage.</p> <p>3. Worldwide operation, two to three months estimated internal sludge storage.</p> <p>4. Dimensions shown for 33CFR159 units. Weights shown for heavier MEPC units.</p> <p>7. Dimensions and weights are approximate and based upon assumed machinery and regulatory requirements.</p> <p>6. Reference data only, not for construction</p>				

Sewage Service Factors	
Type of waste	factor
blackwater	1.00
personal washwater	0.32
laundry	0.36
dishwashing	0.80
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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
<p>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.</p> <p>2. If other types of sewage are to be treated in addition to blackwater, add the applicable factors to obtain a total service factor.</p> <p>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.</p>

FAST M-Series Reference Data - Metric Units					
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Rated Capacities - persons					
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MEPC.159(55) or secondary treatment (note 3)	10	15	23	31	47
Number of Media Tanks	1	1	1	2	2
Overall Dimensions - cm					
Media Tank					
Length	119	160	221	160	221
Width	70	70	70	70	70
Height With Blower Installed	163	168	168	168	170
Wet Well (Contact Tank)					
Length	94	97	97	97	109
Width	70	70	70	70	70
Height	132	132	132	132	132
Estimated Weights - kg					
Shipping	700	800	1,000	1,300	1,700
Operating	1,200	1,600	2,100	2,800	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	125	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	1.12	1.12	1.87	1.87
<b>Notes</b>					
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					

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