

FAST M-Series Reference Data - English Units (inches, lb, hp, gpd) Scienco/FAST, Bio-Microbics Inc., www.sciencofast.com					
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 persons					
blackwater only	13	20	30	40	61
above plus showers and hand sinks	10	15	23	30	46
above plus dishwashing and laundry	5	8	12	16	25
above plus ground food waste	4	6	8	11	17
Rated Capacity gpd	340	510	720	1,100	1,700
Recommended max gpd	270	400	610	810	1,200
Number of Media Tanks	1	1	1	2	2
Overall Dimensions					
Media Tank					
Length	47	63	87	63	87
Width (note 5)	27 1/2	27 1/2	27 1/2	27 1/2	27 1/2
Height With Blower Installed	63	64	65	64	63
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	30	30	29	30	30
Recommend Clearance for Access					
Clear height required above deck	78	78	78	81	81
Between tank and bulkhead	6	6	6	6	6
For piping and valves	30	30	30	30	30
Estimated Weights					
Shipping	1,500	1,700	2,100	2,700	3,600
Operating	2,800	3,500	4,700	4,500	6,300
Pipe Sizes					
Sewage Inlet	4	4	4	4	4
Discharge Pump	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
Vent	3	3	4	4	6
Connected Motor Power					
Discharge Pump	1	1	1	1	1
Turbine Blower	3/4	3/4	1 1/2	1 1/2	2 1/2
Pump TDH Available at 60Hz - ft	40	44	44	44	44
Notes					
1. Rated capacities shown are for units certified by USCG under 33CFR159 and MEPC.227(64) for inspected vessels.					
2. For EPA secondary treatment, EPA VGP 2013 or EPA VIDA reduce rated capacities by 15%.					
3. Rated capacities shown are for persons working and living aboard.					
4. For persons working but not living aboard, count each as one-half person.					
5. Reference data only, not for construction, subject to change without notice.					

FAST M-Series Reference Data - Metric Units (mm, kg, kw, m3/d)					
Scienco/FAST, Bio-Microbics Inc., www.sciencofast.com					
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 capacity persons					
blackwater only	13	20	30	40	61
above plus showers and hand sinks	10	15	23	30	46
above plus dishwashing and laundry	5	8	12	16	25
above plus ground food waste	4	6	8	11	17
Rated Capacity m3/d	1.3	1.9	2.7	4.2	6.4
Recommended max m3/d	1.0	1.5	2.3	3.1	4.5
Number of Media Tanks	1	1	1	2	2
Overall Dimensions - mm					
Media Tank					
Length	1,200	1,625	2,225	1,625	2,225
Width (note 5)	700	700	700	700	700
Height With Blower Installed	1,625	1,650	1,675	1,650	1,625
Wet Well (Contact Tank)					
Length	950	975	975	975	1,100
Width	700	700	700	700	700
Height	775	775	750	775	775
Recommend Clearance for Access					
Clear height required above deck	2,000	2,000	2,000	2,075	2,075
Between tank and bulkhead	175	175	175	175	175
For piping and valves	775	775	775	775	775
Estimated Weights					
Shipping	1,000	700	900	1,200	1,600
Operating	1,300	1,500	2,100	2,000	2,800
Pipe Sizes					
Sewage Inlet	100	100	100	100	100
Discharge Pump	31	31	31	31	31
Vent	75	75	100	100	150
Motor Power					
Discharge Pump	0.75	0.75	0.75	0.75	0.75
Turbine Blower	0.56	0.56	1.13	1.13	1.88
Pump TDH Available at 50Hz - m	9	8	8	8	8
Notes					
1. Rated capacities shown are for units certified by USCG under 33CFR159 and MEPC.227(64) for inspected vessels.					
2. For EPA secondary treatment, EPA VGP 2013 or EPA VIDA reduce rated capacities by 15%.					
3. Rated capacities shown are for persons working and living aboard.					
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