

| FAST M-Series Reference Data - English Units (inches, lb, hp, gpd)   |        |        |        |        |        |
|--|--------|--------|--------|--------|--------|
| Scienco/FAST, Bio-Microbics Inc., <a href="http://www.scienceofast.com">www.scienceofast.com</a>                 |        |        |        |        |        |
| 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](http://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     |
| <b>Notes</b>   |       |       |       |       |       |
| 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.                                  |       |       |       |       |       |