

FAST LX-Series Reference Data - English Units						
Model Number - all except MEPC.159(55)	L-1X	L-2X	L-3X	L-4X	L-5X	L-6X
Model Number - MEPC.159(55) units only	L-1XM	L-2XM	L-3XM	L-4XM	L-5XM	L-6XM
Rated Capacities - persons						
33CFR159 (note 1)	8	10	15	20	22	44
MEPC.159(55) or secondary treatment (note 2)	6	7	12	14	15	30
MEPC.159(55) or secondary treatment (note 3)	4	5	9	10	12	23
Number of Media Tanks	1	1	2	2	1	2
Media Tank						
Length	39	43	40	43	49	49
Width	29	32	29	32	41	41
Height	44	45	46	50	67	70
Wet Well						
Length	26	26	26	26	38	38
Width	26	26	26	26	36	36
Height	39	39	39	39	51	51
Estimated Weights - lb						
Shipping	900	900	1,000	1,100	1,100	1,700
Operating	1,300	1,500	1,900	2,200	2,300	4,500
Pipe Sizes						
Sewage Inlet	4	4	4	4	4	4
Effluent Pump	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Discharge Pump	1	1	1	1	1	1
Vent	3	3	3	3	3	4
Motor Horsepowers						
Effluent Pump	1/3	1/3	1/3	1/3	1/3	1/3
Discharge Pump	1	1	1	1	1	1
Turbine Blower	1/2	1/2	3/4	1 1/2	1 1/2	1 1/2
Notes						
<ol style="list-style-type: none"> USCG inspected vessels in US waters. Worldwide operation, one month estimated internal sludge storage. Worldwide operation, two to three months estimated internal sludge storage. Dimensions shown for 33CFR159 units. Weights shown for heavier MEPC units. Dimensions and weights are approximate and based upon assumed machinery and regulatory requirements. For 2 media tanks, max length of tank 2 and max height of tank 1 height are shown - worst case. 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 LX-Series Reference Data - Metric Units						
Model Number - all except MEPC.159(55)	L-1X	L-2X	L-3X	L-4X	L-5X	L-6X
Model Number - MEPC.159(55) units only	L-1XM	L-2XM	L-3XM	L-4XM	L-5XM	L-6XM
Rated Capacities - persons						
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MEPC.159(55) or secondary treatment (note 2)	6	7	12	14	15	30
MEPC.159(55) or secondary treatment (note 3)	4	5	9	10	12	23
Number of Media Tanks	1	1	2	2	1	2
Media Tank						
Length	99	109	102	109	124	124
Width	74	81	74	81	104	104
Height	112	114	117	127	170	178
Wet Well						
Length	66	66	66	66	97	97
Width	66	66	66	66	91	91
Height	99	99	99	99	130	130
Estimated Weights - kg						
Shipping	400	400	500	500	500	800
Operating	600	700	900	1,000	1,000	2,000
Pipe Sizes - mm						
Sewage Inlet	100	100	100	100	100	100
Effluent Pump	50	50	50	50	50	50
Discharge Pump	25	25	25	25	25	25
Vent	75	75	75	75	75	100
Motor KW						
Effluent Pump	0.25	0.25	0.25	0.25	0.25	0.25
Discharge Pump	0.75	0.75	0.75	0.75	0.75	0.75
Turbine Blower	0.37	0.37	0.56	1.12	1.12	1.12
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. For 2 media tanks, max length of tank 2 and max height of tank 1 height are shown - worst case.						
7. Reference data only, not for construction.						

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