

FAST DV-Series Reference Data - Standard Models - English Units									
Model Number - all except MEPC.159(55)	D-1V	D-2V	D-3V	D-4V	D-5V	D-6V	D-7V	D-8V	D-9V
Model Number - MEPC.159(55) units only	D-1VM	D-2VM	D-3VM	D-4VM	D-5VM	D-6VM	D-7VM	D-8VM	D-9VM
Rated Capacity - persons									
33CFR159 (note 1)	53	93	140	180	210	350	530	700	1,060
MEPC.159(55) (note 2)	39	70	100	130	160	260	370	490	740
Number of Media Tanks	1	1	1	1	1	1	1	1	2
Overall Dimensions - in									
Media Tank									
Length including blower	67	83	107	107	107	160	184	232	184
Width	46	58	58	70	82	82	82	82	82
Height	79	80	81	81	81	82	94	94	94
Wet well Assembly									
Length	44	44	61	61	83	83	103	103	125
Width	58	58	58	58	75	75	82	82	82
Height	63	63	67	67	66	66	83	83	83
Complete Unit on Oilfield Skid (note 8)									
Length (note 9)	109	121	145	145	162	210			
Width	47	59	59	71	83	83			
Height	85	86	87	87	87	88			
Estimated Weights - lb									
Shipping	3,100	3,900	5,000	5,700	6,700	8,900	12,000	14,000	22,000
Operating	6,800	9,800	14,000	17,000	21,000	31,000	44,000	56,000	84,000
Add for Oilfield Skid	500	600	700	700	800	1,000			
Pipe Sizes									
Sewage Inlet	4	4	6	6	6	6	8	8	8
Effluent Pump	2	2	2	2	2	2	2	n/a	n/a
Discharge Pump	1 1/4	1 1/4	1 1/4	1 1/4	2	2	2	2	2
Vent	4	4	6	6	6	8	8	10	12
Connected Motor Horsepower									
Effluent Pump	1/2	1/2	1/2	1/2	1/2	1/2	3/4		
Discharge Pump	1	1	1	1	2	2	2	3	5
Regenerative Turbine Blower(s)	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	5	7 1/2	7 1/2	15
Pump TDH Available at 60Hz - ft									
Effluent Pump	38	38	38	37	37	36	39		
Discharge Pump	40	40	40	40	55	50	50	60	85
Notes									
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. Unless otherwise specified, media tank and wet well assembly will be shipped as separate items.									
5. All standard units can be shipped in standard and high cube ISO containers.									
6. Dimensions and weights shown for standard MEPC units.									
7. D-6V skid is in two pieces, to be shipped separately and bolted together before being welded to foundations.									
8. Length with standard welded lifting lugs. Removable lifting lugs available on request to reduce installed length.									
9. Reference data only, not for construction, subject to change without notice.									
Sizing and Selecting Units									
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.									
2. 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.									
3. Multiply the number of live-on persons by the service factor to obtain equivalent blackwater persons. Use this figure to select the unit. When treating graywater only, use service factor that does not include 1.0 for blackwater.									

Sewage Service Factors	
Type of waste	factor
personal washwater	0.32
laundry	0.36
dishwashing	0.80

all graywater	1.48
blackwater	1.00

blackwater & all graywater	2.48
ground food waste	1.06

all domestic sewage	3.54

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Summary of Requirements
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

FAST DV-Series Reference Data - Standard Models - Metric Units									
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Rated Capacity - persons									
33CFR159 (note 1)	53	93	140	180	210	350	530	700	1,060
MEPC.159(55) or secondary treatment (note 2)	39	70	100	130	160	260	370	490	740
Number of Media Tanks	1	1	1	1	1	1	1	1	2
Overall Dimensions - cm									
Media Tank									
Length including blower	170	211	272	272	272	406	467	589	467
Width	117	147	147	178	208	208	208	208	208
Height	201	203	206	206	206	208	239	239	239
Wet well Assembly									
Length	112	112	155	155	211	211	262	262	318
Width	147	147	147	147	191	191	208	208	208
Height	160	160	170	170	168	168	211	211	211
Complete Unit on Oilfield Skid (note 8)									
Length (note 9)	277	307	368	368	411	533			
Width	119	150	150	180	211	211			
Height	216	218	221	221	221	224			
Estimated Weights - kg									
Shipping	1,400	1,800	2,300	2,600	3,100	4,100	5,200	6,300	9,800
Operating	3,100	4,400	6,300	7,500	9,300	14,000	20,000	25,000	38,000
Add for Oilfield Skid	200	300	300	300	400	500			
Pipe Sizes - mm									
Sewage Inlet	100	100	150	150	150	150	200	200	200
Effluent Pump	50	50	50	50	50	50	50	n/a	n/a
Discharge Pump	31	31	31	31	50	50	50	50	50
Vent	100	100	150	150	150	200	200	250	300
Connected Motor KW									
Effluent Pump	0.4	0.4	0.4	0.4	0.4	0.4	0.6		
Discharge Pump	0.8	0.8	0.8	0.8	1.5	1.5	1.5	2.3	3.8
Regenerative Turbine Blower(s)	1.9	1.9	1.9	1.9	1.9	3.8	5.6	5.6	11.3
Pump TDH Available at 50Hz - m									
Effluent Pump	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Discharge Pump	8	8	8	8	11	10	10	12	16
Notes									
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