

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)	52	92	139	174	209	351	523	700	1,043
MEPC.159(55) or secondary treatment (note 2)	39	69	105	130	157	263	366	490	730
MEPC.159(55) or secondary treatment (note 3)	26	46	70	87	105	176	261	350	522
Number of Media Tanks	1	1	1	1	1	1	1	1	2
Overall Dimensions - in									
Modular Construction									
Media Tank									
Length including blower	71	83	108	109	109	160	185	235	185
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	63	63	63	87	87
Width	58	58	58	58	75	75	81	81	96
Height	55	55	55	55	55	55	67	67	69
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	3,200	4,100	5,400	6,100	7,200	9,700	12,700	15,300	23,300
Operating	7,000	10,000	14,400	17,100	21,200	31,500	45,400	57,300	86,600
Add for Oilfield Skid	500	600	600	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	2	2	2	2	2	2
Vent	4	5	6	8	8	8	10	10	12
Motor Horsepowers									
Effluent Pump	1/2	1/2	1/2	1/2	1/2	1/2	3/4		
Discharge Pump	1	1	1	2	2	2	2	2	3
Turbine Blower	1 1/2	2 1/2	2 1/2	2 1/2	4	5	7 1/2	10	7 1/2
Number of Turbine Blowers	1	1	1	1	1	1	1	1	2
<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. 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 shown for 33CFR159 units. Weights shown for heavier MEPC units									
7. Dimensions and weights are approximate and based upon assumed machinery and regulatory requirements.									
8. D-6V skid is in two pieces, to be shipped separately and bolted together before being welded to foundations.									
9. Length with standard welded lifting lugs. Removable lifting lugs available on request to reduce installed length.									
10. Reference data only, not for construction, subject to change without notice.									
<b>Sizing and Selecting Units</b>									
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.									
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.									

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
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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Number of Media Tanks	1	1	1	1	1	1	1	1	2
Overall Dimensions - cm									
Modular Construction									
Media Tank									
Length including blower	180	211	274	277	277	406	470	597	470
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	160	160	160	221	221
Width	147	147	147	147	191	191	206	206	244
Height	140	140	140	140	140	140	170	170	175
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	1,500	1,800	2,400	2,800	3,300	4,400	5,700	6,900	10,500
Operating	3,200	4,500	6,500	7,700	9,600	14,200	20,500	25,900	39,200
Add for Oilfield Skid	300	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	50	50	50	50	50	50
Vent	100	125	150	200	200	200	250	250	300
Motor KW									
Effluent Pump	0.37	0.37	0.37	0.37	0.37	0.37	0.56		
Discharge Pump	0.75	0.75	0.75	1.49	1.49	1.49	1.49	1.49	2.24
Turbine Blower	1.12	1.87	1.87	1.87	2.98	3.73	5.60	7.46	5.60
Number of Turbine Blowers	1	1	1	1	1	1	1	1	2

**Notes**

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