

## FloGard® Dual-Vortex Hydrodynamic Separator

### Characteristics and Capacities (English)

Model	ID	Depth Below Invert	Treated Flow Capacity <sup>1</sup>			Total Flow Capacity <sup>2</sup>	Max. Pipe Size	Sediment Storage <sup>4</sup>
			67 $\mu$ m cfs	110 $\mu$ m cfs	Peak <sup>3</sup> cfs			
	<i>ft</i>	<i>ft</i>				<i>cfs</i>	<i>in</i>	<i>yd<sup>3</sup></i>
DVS-36	3	3.75	0.13	0.33	0.50	4	12	0.3
DVS-48	4	5.00	0.27	0.69	1.25	9	18	0.7
DVS-60	5	6.25	0.46	1.21	2.50	16	24	1.3
DVS-72	6	7.50	0.73	1.90	4.25	27	36	2.2
DVS-96	8	10.00	1.49	3.90	9.50	57	48	5.3

### Characteristics and Capacities (Metric)

Model	ID	Depth Below Invert	Treated Flow Capacity <sup>1</sup>			Total Flow Capacity <sup>2</sup>	Max. Pipe Size	Sediment Storage
			67 $\mu$ m L/s	110 $\mu$ m L/s	Peak <sup>3</sup> L/s			
	<i>m</i>	<i>m</i>				<i>L/s</i>	<i>mm</i>	<i>m<sup>3</sup></i>
DVS-36	0.9	1.14	3.7	9.3	14.2	113	300	0.23
DVS-48	1.2	1.52	7.6	19.5	35.4	255	450	0.54
DVS-60	1.5	1.91	13.0	34.3	70.8	453	600	0.99
DVS-72	1.8	2.29	20.7	53.8	120.3	765	900	1.68
DVS-96	2.4	3.05	42.2	110.4	269.0	1614	1200	4.05

<sup>1</sup>Treated Flow Capacity is based on 80% removal of suspended sediment with the approximate mean particle size shown. The appropriate flow capacity should be selected based on expected site sediment characteristics.

<sup>2</sup>Total design flow to the system should not exceed the Peak Flow Capacity.

<sup>3</sup>Maximum flow prior to bypass.

<sup>4</sup>Defined as storage at half the distance from the bottom of the separator tubes to the bottom of the sump.

Notes: Systems may be sized based on a water quality flow (i.e. 1-inch design storm) or on net annual sediment load removal depending on local regulatory requirements.

When sizing system based on a water quality flow, the required flow to be treated must be less than or equal to the Treated Flow Capacity for the selected unit. This sizing method is generally very conservative.

Additional Treated Flow Capacities based on sediment distributions with a different mean particle size are available upon request.

Contact Kristar for the most accurate and cost effective sizing for your project location.