

Dual-Vortex Separator

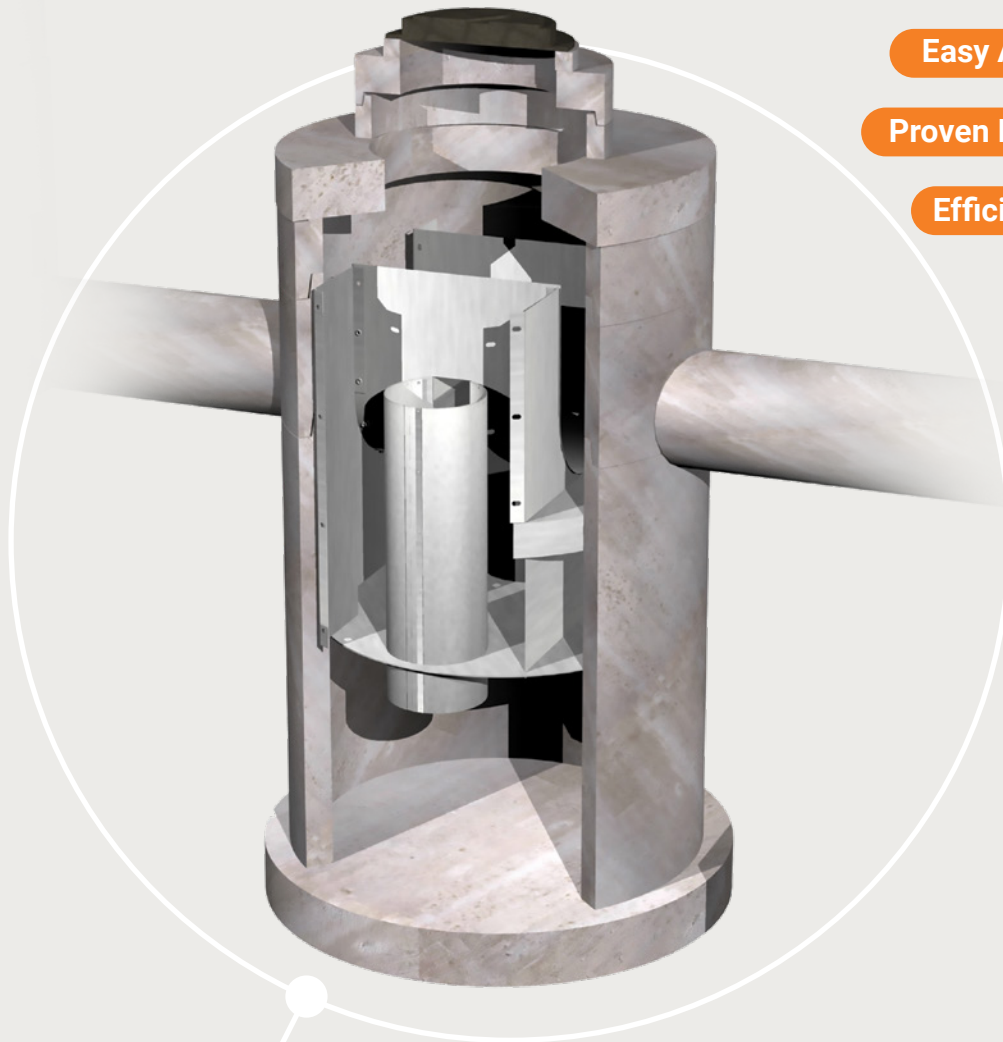
Centrifugal Stormwater Treatment System

Durable, Stainless Steel Internals

Easy Accessibility

Proven Performance

Efficient to Install



**Efficient
and Effective
Treatment**

Dual-Vortex Separators (DVS) offer an innovative, easy-to-install solution for the removal of suspended pollutants from stormwater runoff. The DVS is available in multiple precast configurations for an efficient footprint that is specific to the requirements of your site. Outfitted to internally bypass peak flows, ensuring that pollutants stay captured and your site is not impacted by peak flows.

Enhanced separation. Compact configuration.

How it Works

Step 1 - Independent Vortex Cylinders & Control Weir

Flows are directed to the two independent vortex cylinders where particle settling is enhanced by circular flow patterns.

Step 2 - Captured Floatables

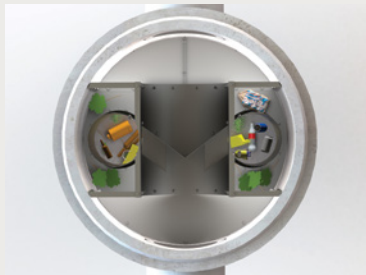
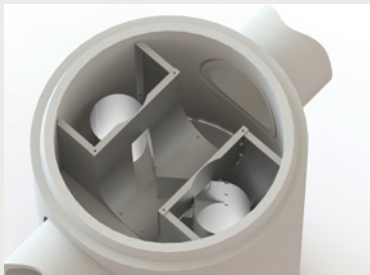
Floating trash, debris and petroleum hydrocarbons accumulate at the top of the two cylinders where they are held until transfer into the upper storage area by peak storm events.

Step 3 - Removal of Total Suspended Solids (TSS)

Particle settling is enhanced by the circular flow patterns and a highly circuitous flow path created by two independent vortex cylinders. Sediments are collected and retained in the isolated bottom storage area.

Step 4 - High-Flow Bypass

Flows in excess of the design treatment overtop the bypass weir and exit the system without entering the cylinders and reentraining captured pollutants.



Models And Nominal Dimensions						
Model No.	Structure Diameter (ft.)	Standard Sump Depth ¹ (ft.)	Minimum Rim to Invert Depth (ft.)	Sediment Storage (cubic feet)	Oil and Floatable Storage (cubic feet)	Maximum Treatment Flow Rate ² (cfs)
DVS-36	3	4.5	2.5	11	6	0.60
DVS-48	4	5.0	3.0	19	15	1.50
DVS-60	5	5.5	3.5	29	29	2.60
DVS-72	6	6.5	4.5	42	49	4.60
DVS-84	7	7.0	5.0	58	79	6.30
DVS-96	8	8.0	5.5	75	116	8.20
DVS-120	10	10.0	7.0	118	226	12.80
DVS-144	12	11.5	8.0	170	388	18.40

1) Depth of unit can be increased to add storage capacity. 2) 80% removal of 250 micron particles.

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