

VORTCAPTURE™

Full capture Gross Pollutant Trap with internal bypass

VortCapture™ is a full capture, high-capacity litter, debris & sediment solution designed to remove all particles greater than 5 mm in size. The system combines the proven sediment removal capability of hydrodynamic separation with superior litter and organic debris capture. The result is a stormwater treatment device that effectively captures and retains a broad range of pollutants.

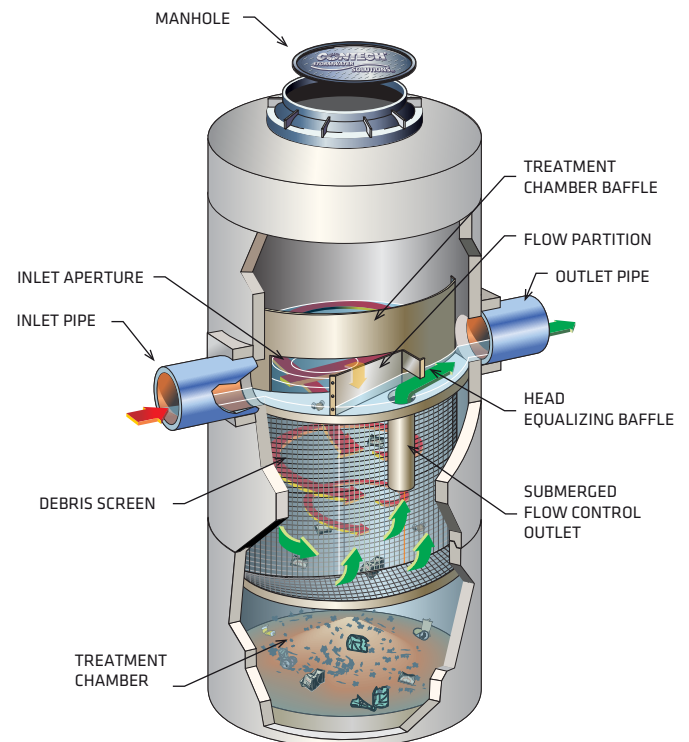


HOW DOES VORTCAPTURE™ WORK?

Stormwater runoff enters the unit tangentially to promote a swirling motion in the screened treatment chamber. High relative tangential velocities (across the screen face vs. through the screen) indirectly screen for pollutants while also scouring the screen to prevent blinding. Treatment continues as polluted water circles within the chamber and settleable solids fall into, and are retained, in the sump. Treated water exits the treatment chamber through a submerged flow control outlet located behind the debris screen. A flow partition and head equalising baffle reduce the potential for resuspension or washout of captured pollutants during higher flow conditions.

VortCapture™ devices are housed in precast concrete manhole structures, commonly available in diameters from 1.2 to 3.6m, with larger sizes available.

The VortCapture™ can be installed as an online or offline device. For retrofit sites, large peak flows can be accommodated by our high flow (HF) model which incorporates an internal offline bypass within the device.



VORTCAPTURE BENEFITS:

- Treatment and internal bypass in one structure
- Compact design ideal for congested sites
- Unobstructed maintenance access
- Round, lightweight construction for easy installation
- Integrated screen to remove neutral buoyant debris.
- Greater sediment particle removal at lower flowrates
- Free-floating oil & grease separation
- Captures all pollutants greater than 5mm in size.

AVAILABLE MODELS

VORTCAPTURE™	Swirl Chamber Diameter	Typical Depth Below Invert	Max. Pipe Size Inlet/Outlet	Water Quality Flow Rate	Debris Storage Capacity	Sediment Storage
	mm	m	mm	L/s	m ³	m ³
VC40 & VC40 HF†	1200	2.0	450 (900†)	39	0.9	0.5
VC50 & VC50 HF†	1500	2.3	450 (1050†)	69	1.5	0.8
VC60 & VC60 HF†	1800	2.6	600 (1200†)	109	2.3	1.2
VC70 & VC60 HF†	2050	2.8	750 (1500†)	185	3.4	1.6
VC80 & VC80 HF†	2300	3.1	750 (1500†)	283	4.7	2.1
VC100 & VC100 HF†	3000	3.7	1050 (2100†)	411	8.5	3.3
VC120 & VC120 HF†	3600	4.2	1200 (2100†)	574	10.5	4.8

† denotes "HF" or High Flow model which incorporates a high flow diversion chamber on the side of the device. VortCapture can be sized to meet specific sediment removal requirements. Please contact Stormwater360 for more information.

CUSTOMER SUPPORT

INSTALLATION

Stormwater360 products are some of the easiest to install in the industry. We provide comprehensive installation details and instructions, as well as full technical support on every project.

MAINTENANCE

Maintenance of Stormwater360 products is cost effective, straightforward and efficient. We offer a complete range of services that can be tailored to your specific site needs.

SUPPORT

- Drawings and specifications are available upon request
- Site-specific design support is available from our engineers.



CONTACT DETAILS

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