

CASCADE SEPARATOR™

Innovative and efficient
hydrodynamic separator

ADVANCED SEDIMENT CAPTURE TECHNOLOGY

The Cascade Separator is the newest innovation in stormwater treatment. This innovative hydrodynamic separator excels at sediment capture and retention while also removing hydrocarbons, litter, and debris from stormwater runoff. What makes the Cascade Separator unique is the use of opposing vortices that enhance particle settling and a unique skirt design that allows for sediment transport into the sump while reducing turbulence and resuspension of previously captured material. These two factors allow the Cascade Separator to treat high flow rates in a small footprint, resulting in an efficient and economical solution for any site.

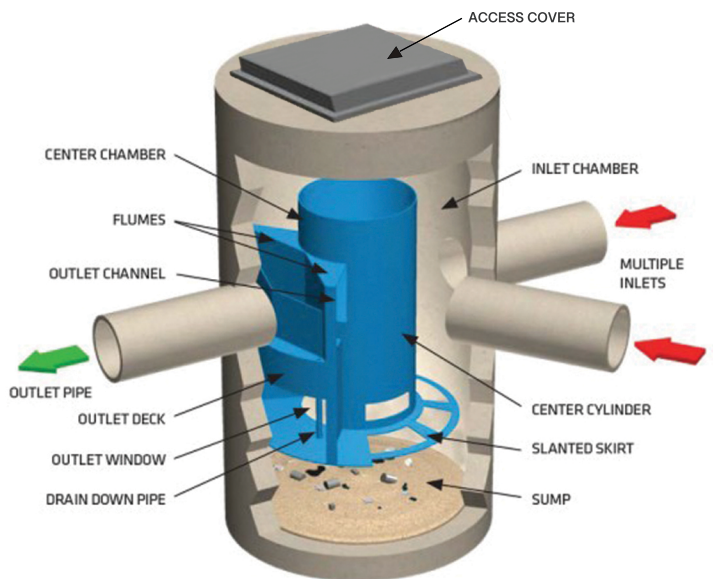
HOW DOES IT WORK?

As stormwater enters the Cascade Separator through one or multiple inlets, it impacts the centre cylinder and is directed toward separate flumes. It then travels through the opposing flumes, enters the centre chamber where vortices rotate in opposite directions and facilitate enhanced particle settling. As water swirls downward, sediment settles into the sump and treated water exits through the outlet window and exits the system.

When flows exceed the capacity of the flumes, the excess water flows over the flumes and exits the system without re-suspending or washing out previously captured pollutants.

PROVEN PERFORMANCE

The Cascade Separator has received the New Jersey Department of Environmental Protection (NJDEP) Certification.



CASCADE FEATURES AND BENEFITS

- **Unique Skirt Design with Opposing Vortices** resulting in superior TSS removal & therefore smaller footprint and excavation size for a given treatment flowrate (compared to other alternatives)
- **Accepts a Wide Range of Inlet Pipe Angles** allowing for design and installation flexibility
- **Accepts Multiple Inlet Pipes** eliminating the requirement and cost for upstream relieving manholes
- **Internal Bypass** saving the requirement and cost of upstream bypass structures
- **Clear Access to Storage Sump** providing fast and easy maintenance
- **Range of Sizes Available** to enable the most economical solution for your project

CONTACT DETAILS

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BETWEEN SKY AND SEA