

Debris Separating Baffle Box (DSBB)

Dual Stage Hydrodynamic Separator
 PROVEN STORMWATER TREATMENT TECHNOLOGY

Comparison Results

Bio Clean Hydrodynamic Separator (DSBB)

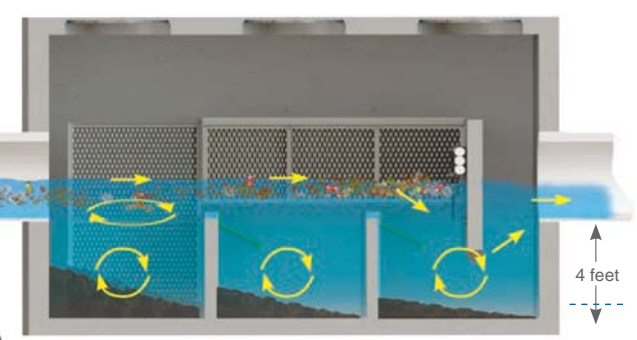


Stores trash, debris & organics in screening system separated from water below.

- Separation Prevents:
- Odor
 - Bacterial Growth
 - Nutrient Leaching
 - Septic Conditions



- Shallow Profile Minimizes Maintenance Cost:
- Less Shoring
 - Perfect for Areas with High Ground Water



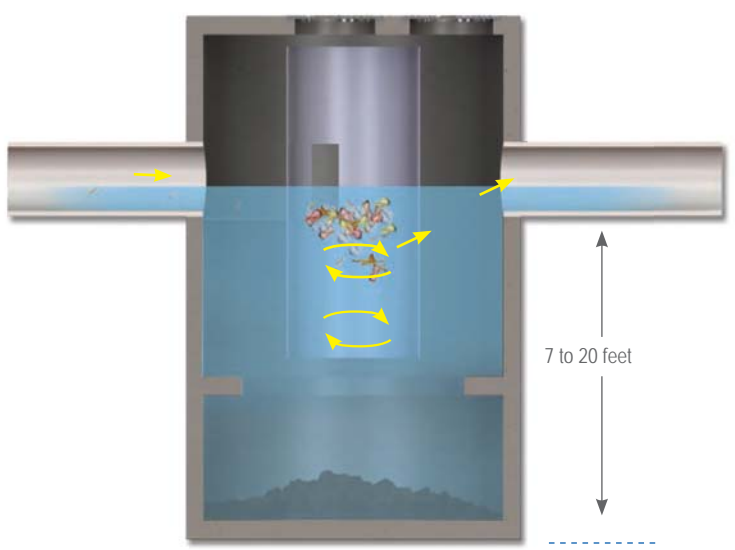
Other Separators

Trash, debris & organics are captured and stored in standing water.



This promotes nutrient leaching, bad odors, bacterial growth, and complicates maintenance.

- High Excavation Cost
- Extra Shoring
- Challenge with Shallow Ground Water



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Overview

The Bio Clean Debris Separating Baffle Box (DSBB) is an advanced stormwater treatment system utilizing non-clogging screening and hydrodynamic separation to capture pollutants.

The non-clogging screening system stores trash and debris in a dry state, suspended above the sedimentation chambers, minimizing nutrient leaching, bacterial growth, bad odors, and allows for easier cleaning.

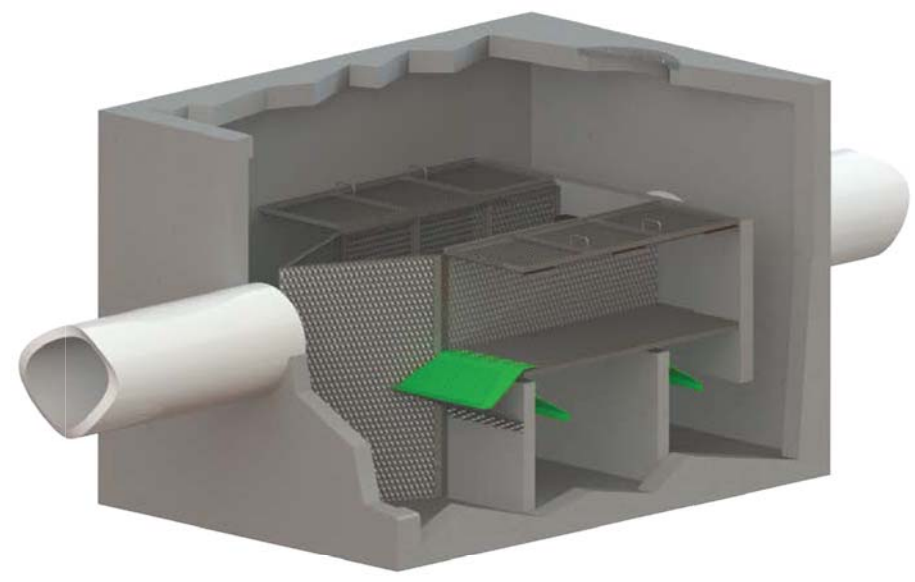
The DSBB's triple chamber design provides higher removals of total suspended solids over a wide range of particle sizes, including the finest particles. Fine sediments carry large amounts of heavy metals, nutrients and other harmful pollutants.

The deflector shields ensure no scouring of captured sediments during high flow. This feature allows the system to be installed in-line, thus eliminating the need for diversion structures. The oil skimmer and hydrocarbon booms trap oil.

The Bio Clean Debris Separating Baffle Box is a widely accepted stormwater treatment solution among civil engineers, municipalities and developers nationwide.

Advantages

- Dual Stage Treatment (Screening & Separation)
- Enhanced 3 Chambered Separation
- Separates Trash & Debris from Sediment & Water
- Easily Installed In-Line (Low Head Loss)



Performance

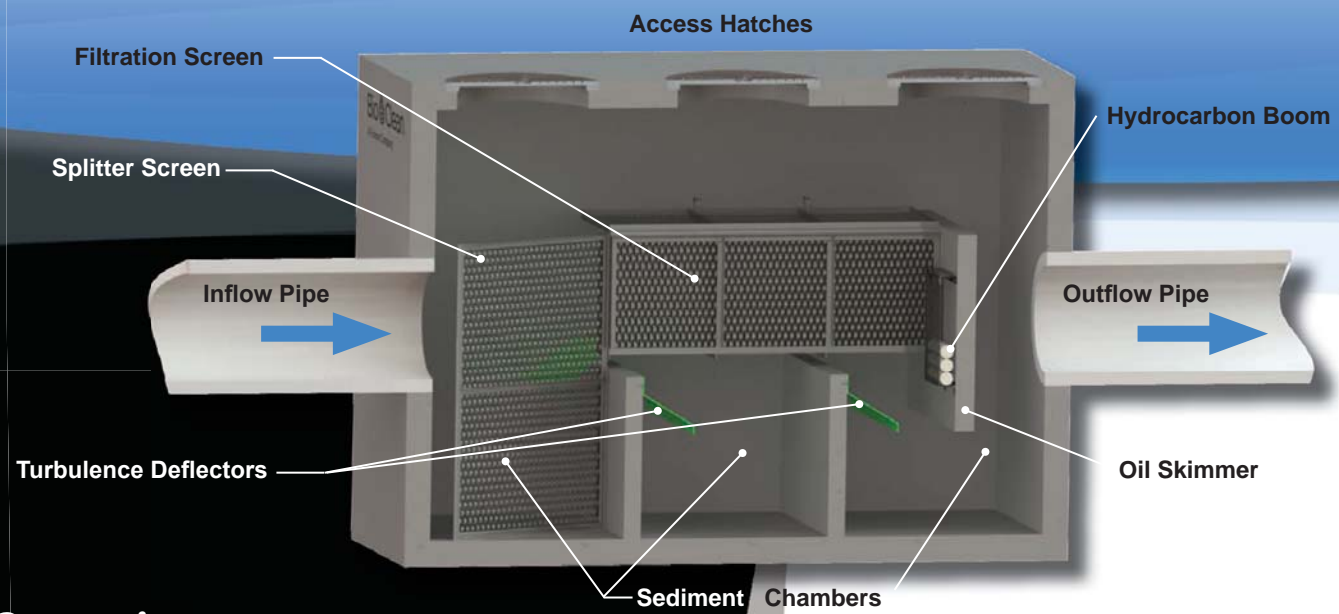
- 100% Removal of Trash and Debris
- Meets Full Capture Requirements

Specifications

Model #	Surface Loading Area (sq. ft.)	Storage Capacity (cu. ft.)
DSBB-4-6	26	48
DSBB-4-8	32	70
DSBB-5-10	50	104
DSBB-6-12	72	149
DSBB-8-12	96	209
DSBB-8-14	112	244
DSBB-10-14	140	307
DSBB-11-16	176	470
DSBB-11-24	264	832
DSBB-11-34	374	1190

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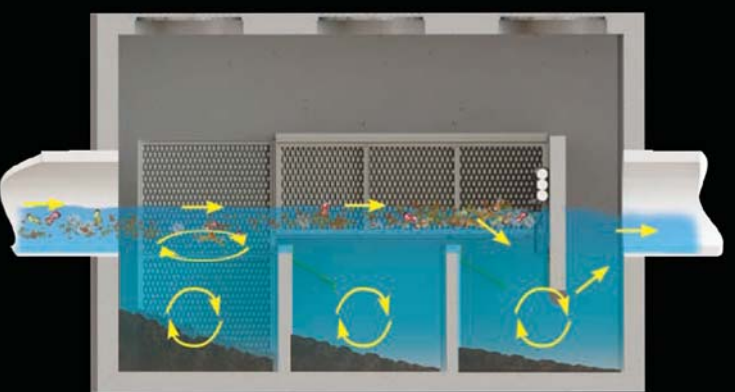
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Operation

- Splitter Screen – Directs flows to the filtration screens and provides additional screen flow capacity. Non-clogging for continuous maintenance-free treatment.
- Filtration Screen – Collects and stores trash, debris, organics, and oxygen demanding substances above standing water in a dry state.
- Turbulence Deflectors – Prevent re-suspension of captured pollutants.
- Sediment Chambers – Maximizes TSS removal and eliminates scouring during extreme flow rates.
- Skimmer and Boom– Collects hydrocarbons and controls flow velocity which improves removal efficiency.

During Storm Events



Trash, debris and organics are captured in the filtration screen as sediments settle to the bottom chambers. Hydrocarbons are removed and absorbed by the boom.

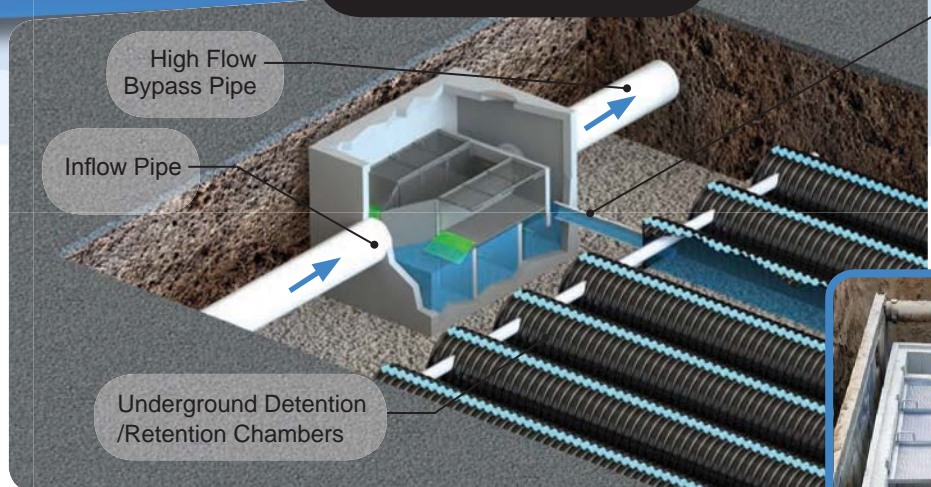
Between Storm Events



Trash, debris and organics are stored in a suspended screen system allowing pollutants to dry out between storm events. This eliminates septic conditions and prevents leaching of plant based organics into water.

PROVEN STORMWATER TREATMENT TECHNOLOGY

PRE-TREATMENT & DIVERSION



Built-In Diversion Eliminates the Need for Diversion Structures

RETROFIT & NEW CONSTRUCTION



Application

- Commercial
- Residential
- Retrofit
- Pre-treatment for:
 - Reuse Systems
 - Infiltration Basins
 - Bioretention & Swales
 - Detention Basins
 - Wet Ponds
 - Media Filters

Installation



Low Pick Weights Delivered in a top & bottom to minimize weight



1 Hour Set Time Internal components are installed prior to delivery



Minimal Excavation Bottom of structure less than 4 ft. from invert of pipe

Maintenance



No confined space entry is required for servicing



Cleaning can be accessed through manhole or hatch above ground with vac truck



Separating pollutants minimizes costs - screen system allows gross solids to be removed without vacuuming out water or sediment chambers

Screen systems are hinged for easy access to sediments collected in lower chambers

DESIGNED FOR USE WITH STANDARD VACUUM TRUCKS