

# **SciClone Brochure**

## **Section C**

# SciCLONE™

Hydrodynamic Separation

**Bio Clean**  
A Forterra Company

## Overview

SciCLONE™ is the latest innovation from Bio Clean, a proven leader of storm-water treatment technology. Stormwater separators have been in use for more than 20 years, yet no technology has been able to combine all necessary features required for a truly effective system.

The SciCLONE is the first separator to offer complete and efficient hydrodynamic separation. Its simple design allows for high TSS removal efficiencies, (80% for a particle size distribution typically found in storm-water runoff), internal bypass, and efficient capture/retention of free floating oils and trash.

For enhanced sediment removal, the SciCLONE's inlet flow splitter re-directs inlet flows away from the center of the chamber in two directions along the systems perimeter. From there the flow is toward the oil skimmer, along the skimmer wall, and back toward the inlet in the middle of the chamber creating two swirling vortexes. This feature maximizes flow path and directs fine sediment to settle out back below the inlet.

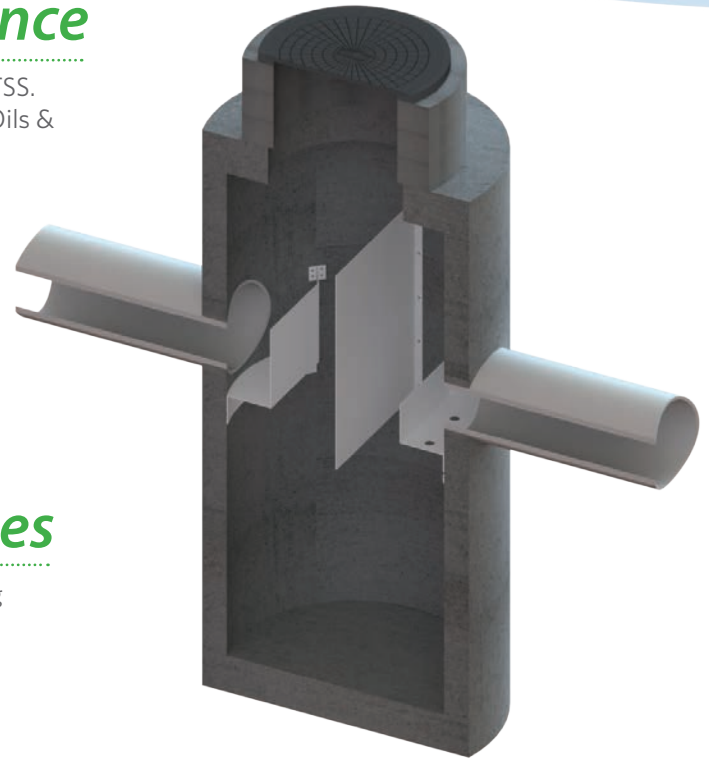
In addition, the system can accept multiple inflow pipes at various angles for easy placement.

## Performance

- 80% Removal of TSS.
- 99% Removal of Oils & Grease.

## Advantages

- Effective at removing floatables, trash and hydrocarbons.
- 100% non-corrosive internal components.
- Made in the USA.
- Independently tested by a third party laboratory.



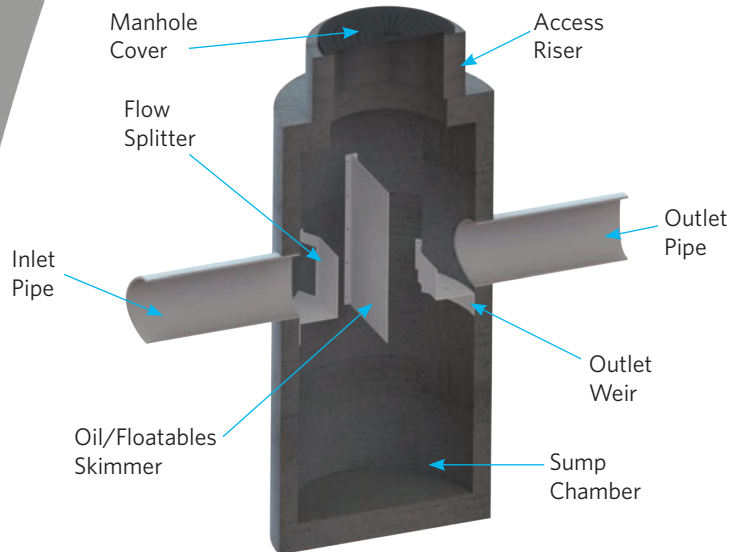
## Standard Models

Model #	Diameter (ft.)	Surface Area (sq. ft.)	Storage Capacity (cu. ft.)
SC-3	3	7.1	11
SC-4	4	12.6	19
SC-5	5	19.6	29
SC-6	6	28.3	42
SC-7	7	38.5	58
SC-8	8	50.2	75
SC-9	9	63.6	95
SC-10	10	78.5	118
SC-11	11	95.0	142
SC-12	12	113.0	170
SC-13	13	132.7	199
SC-14	14	153.9	231

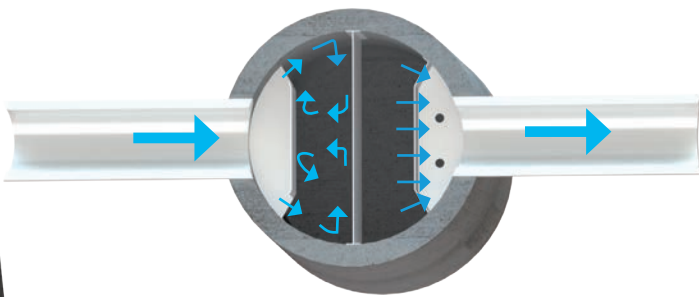
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## Operations



The SciCLONE is manufactured from high density polyethylene components which are non-corrosive and extremely durable.



The flow splitter reduces inlet velocities and directs flow to the perimeter of the structure in two directions. As the flow reaches the oil skimmer, it's directed to the center and then back toward the inlet to maximize flow path and settling of finer TSS. This also creates a calm area for the collection of floatables and hydrocarbons behind the oil/floatable weir. The outlet weir provides a long and even surface for flows to pass over. By distributing the flow out of the system evenly, exit velocities are also reduced which helps to maximize the available area within the system for hydrodynamic separation.

## Installation

Installation of the SciCLONE is quick and easy. The system is composed of a base section, a middle riser with holes for pipe connections and internals pre-installed, a top, risers to bring access to finish surface and access covers. Installation of the system follows the same procedures as standard manhole installation. We carry the structures in inventory allowing for short lead times to meet your project schedule.



## Maintenance

We have always taken pride in providing systems that are not only effective at treating stormwater but also incredibly easy to maintain. We believe that a stormwater BMP is only as good as its maintenance and therefore BMPs must be easy to clean for them to be effective. The SciCLONE provides better maintenance access than any other hydrodynamic separator on the market. The entire sump of the system is accessible and can be viewed from the finish surface. Unlike other systems that have only a small cleaning port, the SciCLONE is fully open from top to bottom. As shown below, the system can be accessed from both sides of the skimmer wall with an open area to opposites sides of the structure.



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