

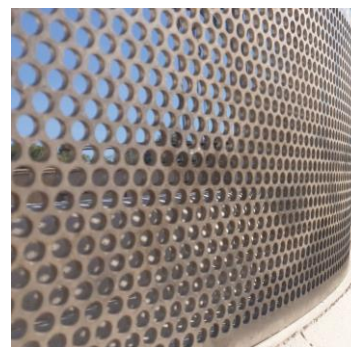
Hydrodynamic Separator HIDROCLEAN: SUDS Treatment



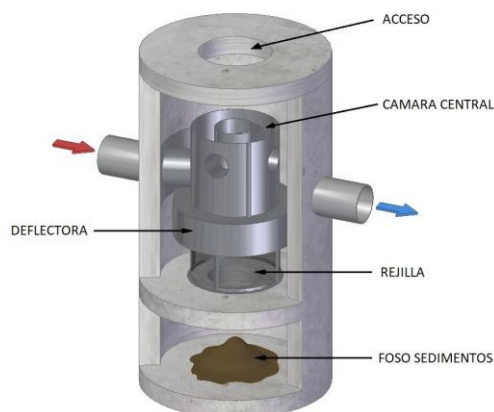
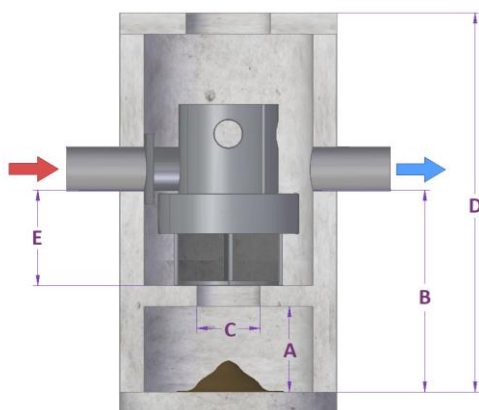
HOW AN HIDROCLEAN WORKS

The Hydrodynamic separator HIDROCLEAN is a rainwater treatment device which, due to the separation technology, retains waste, sediments, oils and fats associated with runoff. In addition, **it neutralizes 100% of the floats larger than 5 mm.**

The rainwater enters the unit creating a rotational flow that leads the flow to the separation chamber where by the force of the vortex generated and the deflection force of the grid floatant, sediments are retained in the central chamber and the lower sump.



SIZES AND FLOW TREATMENTS



Size	DN	Q 110 micron	Q 5 mm	Q by pass	Volume Sump	Volume Oil	A	B	C	D	E
SH 1200	1200	22 l/sg	90 l/sg	102 l/sg	0,69 m3	227 litros	610	1.440	450	2.550	680
SH 1800	1800	106 l/sg	240 l/sg	309 l/sg	1,55 m3	1.034 litros	610	2.010	720	3.350	1.250
SH 2500	2500	235 l/sg	446 l/sg	515 l/sg	4.42 m3	2.341 litros	900	2.600	1.000	4.500	1.550
SH 3000	3000	725 l/sg	780 l/sg	1023 l/sg	6,36 m3	3.890 litros	900	3.650	1.400	5.950	2.600
SH 3600	3600	1205 l/sg	1425 l/sg	1751 l/sg	11,20 m3	6.297 litros	1.100	4.550	1.800	7.400	3.300

ADVENTAGES OF HYDRODYNAMIC SEPARATOR HIDROCLEAN

- Removal 100% of floatable and neutrally buoyant material debris larger 5 mm
- Easy access for the maintenance
- Auto cleaning effect of the Screen
- Internal Overflow
- Allow reduction of Infraestructures
- Flexible Design.
- Easy to Install in Existing sewer lines
- Verified efficiency on Removal of Debris
- Application inline and off line

APLICACION

- Pretreatment for the collection and reuse of rainwater
- Pretreatment for infiltration and bio-retention
- Urban reconversion / reconstruction.
- Protection of ponds and lakes against sediment and garbage
- Pump protection



MAINTENENCE

Systems vary in their maintenance needs, and the selection of a cost-effective and easy to access treatment system can mean a huge difference in maintenance expenses for years to come. A HIDROCLEAN unit is designed to minimize maintenance and make it as easy and inexpensive as possible to keep our systems working properly.

Inspection

Inspection is the key to effective maintenance. Pollutant deposition and transport may vary from year and site to site. Semi-annual inspections Will help ensure that the system is cleaned out at the appropriate time. Inspections should be performed more frequently where site conditions may cause rapid accumulation of pollutants.



Recommendations of maintenences

Before Cleaning of the Unit it is recommend to clean the inlet pipes and take all this sediments to the Separator to remove them at the same time as the cleaning of the Unit.

The recommended cleanout should be done during dry water time. The cleaning of the unit should be done of solids when the HIDROCLEAN unit's sump should reach at 75% of the sump capacity. Access to the HIDROCLEAN units is typically achieved through two manhole access covers. One allows inspection and cleanout of the separation chamber and sump, and another allows inspection and cleanout of sediment captured and retained behind the screen.

A vacuum truck is recommended for cleanout of the HIDROCLEAN unit and can be easily accomplished in less than 30 minutes for most installations.

