

# STORM SHARK

ADVANCED HYDRODYNAMIC VORTEX SEPARATOR

**DATA SHEET**  
MODEL: SSK750M

## OVERVIEW

The Stormshark 750 MAX is a Advanced Hydrodynamic Separator with a unique patented design with a proven and tested performance. Designed for use in SUDS treatment trains, providing certainty of water quality treatment, enabling enhanced amenity and bio-diversity downstream. Protecting and defending downstream controlled waters from sediment bound pollutants.

The Stormshark Range has been designed in Germany and all the units in the range meet and exceed all German Stormwater Treatment standards, under DWA M153 D24 and D25. The Stormshark has also been tested in the USA to NJDEP (New Jersey Department of Environmental Protection). It can be used on-line or off-line and with or without an external by-pass unit.

Multi treatment water purification processes are involved.

## DESIGN CERTIFICATION & TESTING

- NJDEP 2015 & 2020
- NRW Trennerlass (Independent German Lab & field test)
- DIBt.

## PERFORMANCE

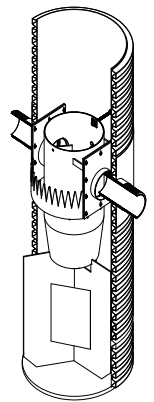
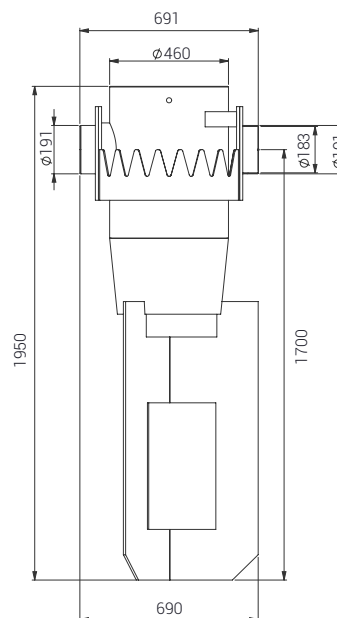
The Stormshark removes sediment bound contaminants. Available in differing sizes to suit site flows and conditions. The Stormshark removes over 50% of fine TSS (0-200 microns, median size 75 microns) at design flows and up to 99% of TDS 0.1 to 0.4mm (coarse).

MITIGATION INDICES	TSS	Total Metals	Total Hydrocarbons
NJDEP*	0.5	—	—
STORMSHARK	0.5	0.4	0.45
British Water Code of Practice^	0.5	0.38	0.53

\* NJDEP protocol, + "best advice" (in part as NJDEP only covers TSS), ^ The British Water Code of Practice (Assessment of Manufactured Treatment Devices Designed to Treat Surface Water Runoff).

## PLASTICS RETENTION

NRW tested	Polyethylene	Polystyrene
% Retained	62.24	75.41



## FEATURES & BENEFITS

- Supplied as a single piece Unit with SHARK UNIT pre fitted into a robust PE twinwall chamber with pipework connection pre installed
- Can be installed into Concrete Chambers and GRP, as well as PE
- Tested patented design
- No head loss, level inverts
- Cannot air lock
- Inlet deflector plate induces vortex
- Floatable materials & liquids are retained
- Settled solids are prevented from remobilisation
- Distributed upward flow ensures a uniformity of flow pathway, even at high design flows.
- Toothed weir ensures balanced optimised flow pathways
- Simple maintenance
- 15 year Warranty
- Built in the UK

## TECHNICAL DATA

Overall Height:	1950mm
Chamber ID:	750mm
Height to Invert:	1598mm
Height to Inlet centre:	1700mm
Max Inlet/Outlet ID:	203mm
Sediment Storage Capacity:	0.47m <sup>3</sup>
Oil/Debris Storage Capacity:	81litres
Machine Weight:	50Kg

Pipe Connection Plates  
(Outlet vertically adjustable by 50mm)

Adjustable feet not shown. These are for models to be fitted into PCC chambers

## CHAMBER OPTIONS

We recommend Stormshark SSK750M and SSK1000M units are pre-installed into polyethylene twinwall chambers (As illustrated). Models : SSK1200M, SSK1500M, SSK1800M, SSK2000M, SSK2500M and SSK3000M, we suggest are installed into a PCC chambers on site. The Stormshark MAX series hydraulic flow rates have larger pipe connection sizes, ideal for sites where higher peak flows are anticipated or required. The MAX series also afford ease of connection to the structural wall drainage pipes commonly used in the UK stormwater drainage market.

**INSTALLATION:** The installation design should consider traffic loadings, ground conditions and variable ground water elevations. If in any doubt consult your schemes' Designer/Engineer. A suitably qualified professional is required to sign off the installation. Installation Instructions are available separately.