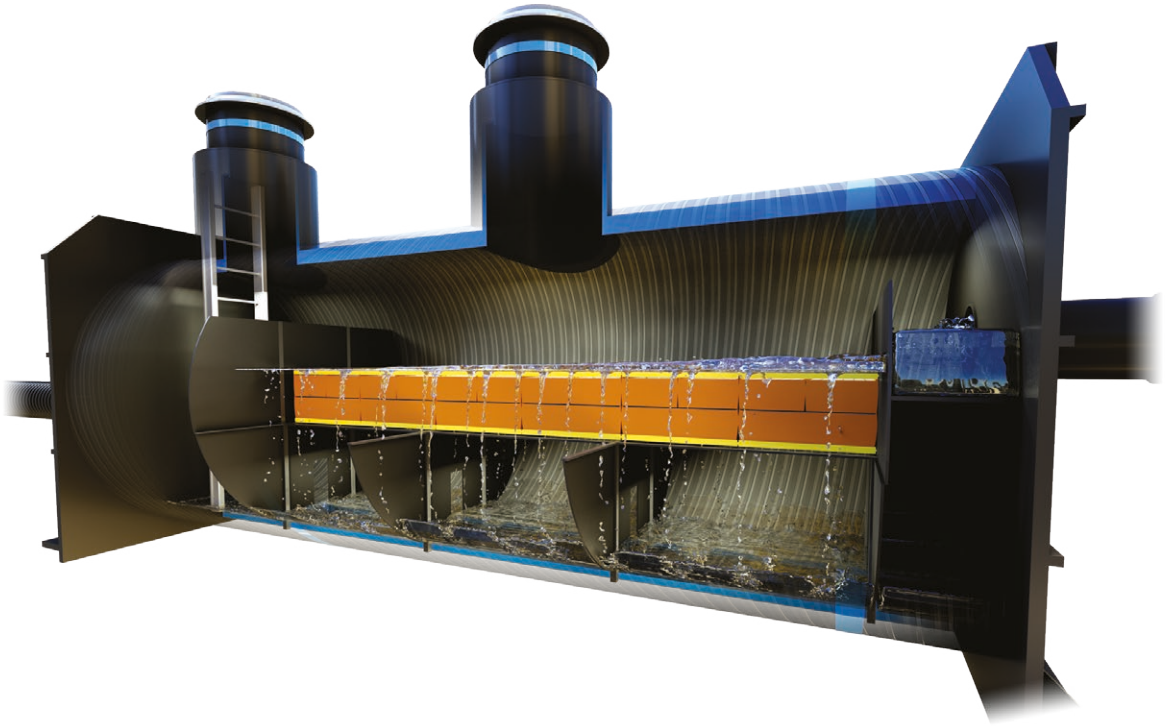
Water Infrastructure Systems

SDS Aqua-Filter™

Hydrodynamic Vortex Separator & Filtration Unit

SDS Aqua-Filter™ uses hydrodynamic and gravitational forces to remove gross pollutants from surface water runoff. It then filters out fine sediments, nutrients, heavy metals and hydrocarbons through percolation, adsorption, biological breakdown and ionic exchange, prior to final conveyance.



SDS Aqua-Filter™ is designed to work in an offline configuration to mitigate washout of the contained pollutants and should be installed in sequence immediately following an SDS Aqua-Swirl™ unit. It is able to deal with large volume surface water runoff, removing very fine silts and dissolved pollutants that are contained in the initial flush. The treatment flow rate of the SDS Aqua-Filter™ system is engineered to meet or exceed the local water quality treatment criteria and form an intrinsic part of the SuDS solution train.

- *No moving parts*
- *HDPE plastic construction*
- *Twin access manholes*
- *Small footprint design*
- *Filtration media supplied in bags*
- *Available in a range of lengths*
- *Lifting eyelets and handling cables*
- *Bespoke sizing available*

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Features	Benefits
Manufactured from HDPE with no moving parts.	Offers a durable, light weight and low cost alternative to concrete. Easy and quick to install resulting in substantial cost savings.
Large volume treatment capacity.	Can be sized for connection to more than one SDS Aqua-Swirl™.
Twin access manholes with built-in ladder.	Provides easy access to recovered sediments and filtration elements.
Small footprint design.	Reduces ground excavation and product installation costs.
Dedicated filtration media supplied in small bags.	Suitable to each type of pollutant including small suspended particles, nutrients, heavy metals, hydrocarbons and poly aromatic hydrocarbons.
Lifting eyelets.	Easy installation without the need for expensive heavy machinery.
Available in a range of lengths.	Can be used in a variety of water quality filtration flows.
Bespoke units can be manufactured.	Satisfies even the most demanding installations.

SPECIFICATIONS

SDS Aqua-Filter™ model	Number of Filter Rows	Filtration Treatment Tank length metres	Filter Media m^2	Filtration Rate litres/sec
AF-X.1	1	2.9	0.72	14
AF-X.2	2	3.7	1.44	28
AF-X.3	3	4.4	2.16	43
AF-X.4	4	5.1	2.88	57
AF-X.5	5	5.7	3.60	71
AF-X.6	6	6.4	4.32	85
AF-X.7	7	7.2	5.04	99
AF-X.8	8	7.9	5.76	113
AF-X.9	9	8.6	6.48	127
AF-X.10	10	9.3	7.20	141
AF-X.11	11	10.0	7.92	155
AF-X.12	12	10.9	8.64	169

Note: Values above are approximate and may change without notice. For assistance in design and specific sizing using historical rainfall data, please contact SDS.

CAD details and specifications are available on request.

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