



**XTREAM
PROTECTOR**



SPECIALIST

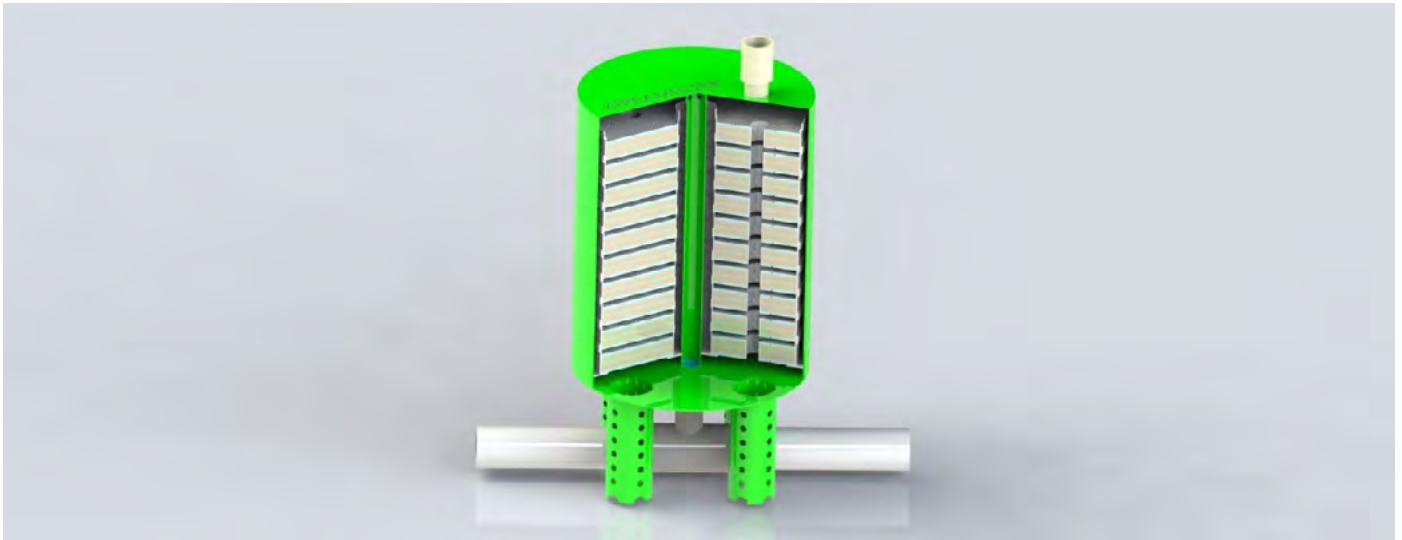
XTREAMPROTECTOR

STORMWATER TREATMENT

www.protector.com.au

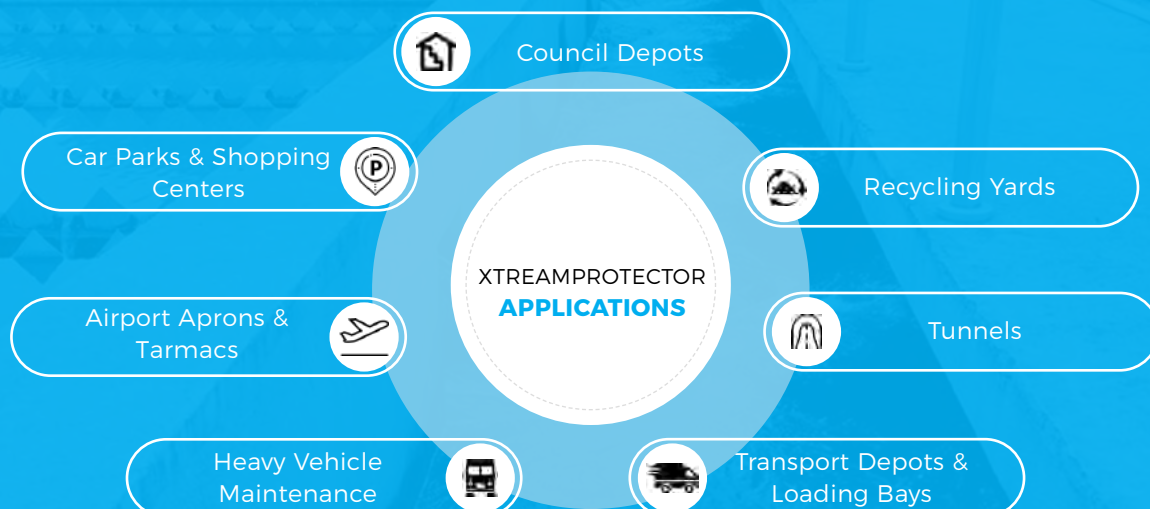
XTREAM PROTECTOR

The XTREAMPROTECTOR is an effectively design upflow water filtration that uses our uniquely constructed Stacked disk design to provide the maximum amount of filter media surface area. Due to the high surface area and the wide range of removal techniques that it is capable of employing, this tertiary treatment system can remove TSS, TN, TP, hydrocarbons, gross pollutants and heavy metals. This system can be constructed and pre assembled in any configuration or arrangement to suit the demands of any site and then easily installed!

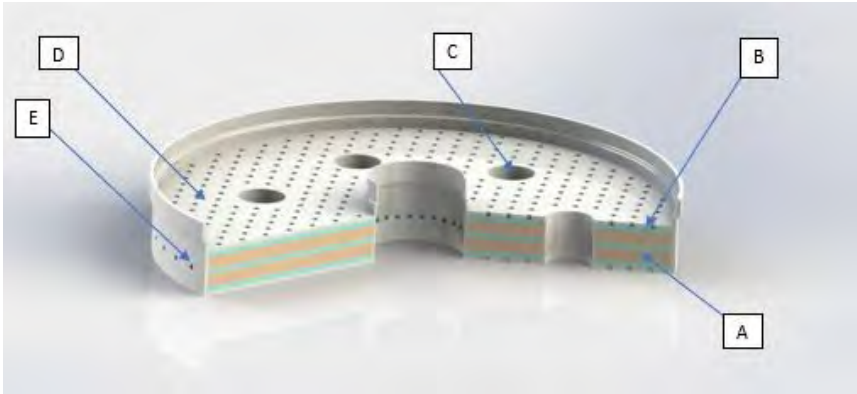


The XTREAMPROTECTOR is designed to filter stormwater run off and remove a large proportion of the contaminants in the process. This filtration device to be implemented into stormwater systems to remove fine sediments, heavy metals and phosphorus from stormwater runoff. Once treated this water is then returned into the water system, efficiently keeping our water clean.

The system is a series of our well designed and vigorously tested XTREAMFilters, as system which is designed to maximise water surface area contact to have the highest flow rate of clean and environmentally safe water.



HOW IT WORKS



- A - Filtration Media
- B - Water Propagation media
- C - Riser Channel
- D - Porous Filter Cover
- E - Filtered water Discharge

The XTREAMPROTECTOR as a whole is a series of stacked filtration disks. Each disk contains two layers of filter media, two increase the amount of surface area for the water to come into contact with, and a propagation media for the liquids movement to be promoted throughout to cause the even distribution on the filter. The system uses gravitational and water hydraulic techniques to force the stormwater runoff throughout the systems filtration layers. The water, once through either filtration media disks, is then funnelled into a middle water propagation media and then moved into channels, one centrally, and one outside the disk, through carefully placed holes in the casing of the filter, to be funnelled upward.

Each disk also contains 6 stormwater channels to allow the water to be filtered through each filtration disk from above and below, doubling the amount of surface area utilises per disk. Once all the filtration disks, the number of disks dependant on the model chosen, have been passed through, and the water level has reached the top of the casing of the stack, the water is then moved into a central dropper tube and then run out of the system into an outlet fitting as clean water.

TECHNICAL DATA



Due to the stack design you can maximise the flowrate and surface area of the stack by increasing the stack number!

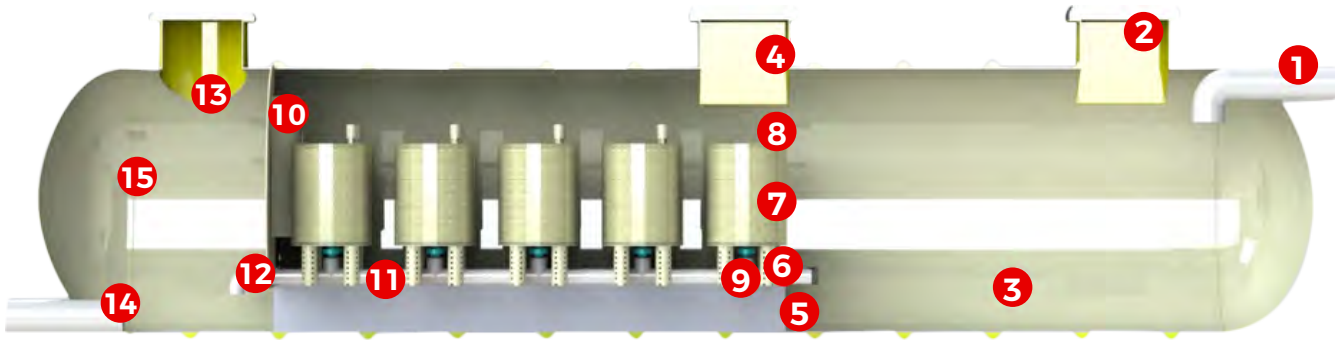
Surface Area Per Disk:

377000 mm²

A wide range of filter media to specialise your contaminant removal.









Housing Material: FRP

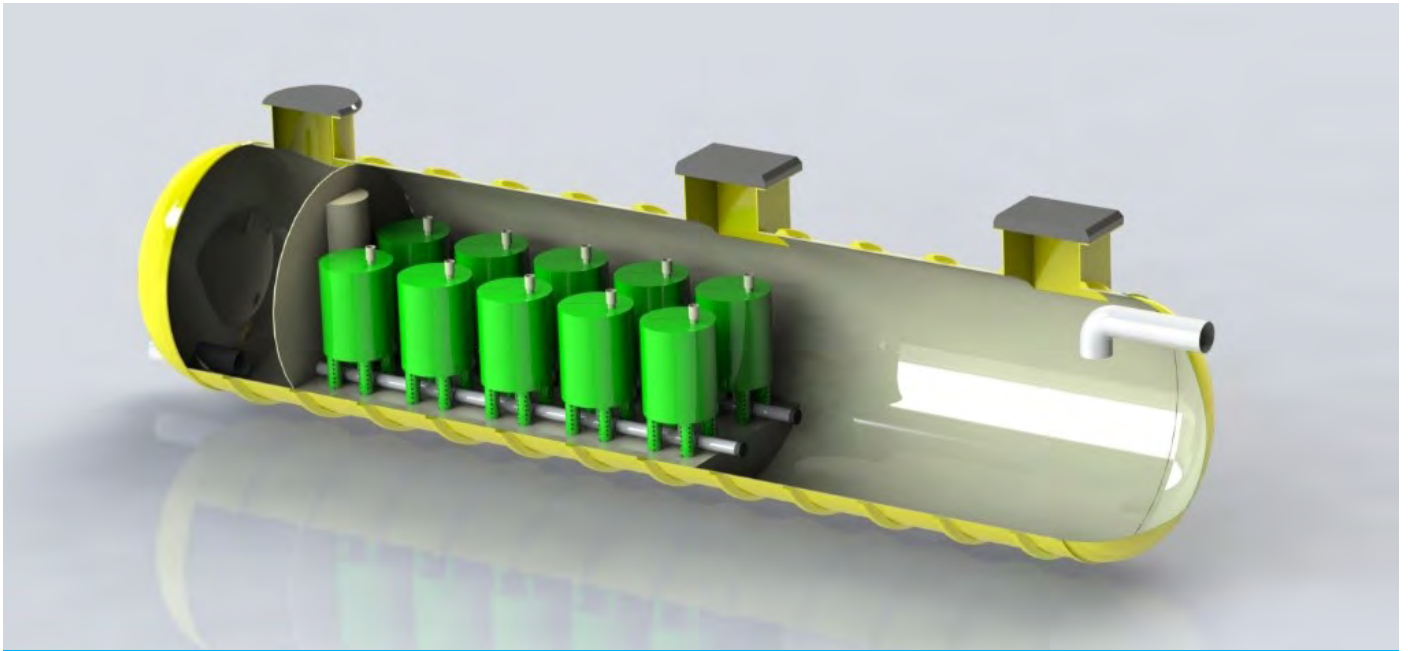
PRODUCT STRUCTURE




- | | |
|--|---|
| 1. Inlet flame dip pipe | 9. XTREAMFILTER outlet |
| 2. Sediment chamber access | 10. Bypass baffle |
| 3. Sediment chamber | 11. XTREAMFILTER pipe connections arrangement |
| 4. Filter access and filter removal manway | 12. XTREAMFILTER discharge vacuum elbows |
| 5. Filter floor and silt baffle | 13. Discharge chamber access |
| 6. XTREAMFILTER Inlet leg system | 14. Discharge outlet into waterways |
| 7. XTREAMFILTER | 15. Discharge chamber |
| 8. One way Air valve | |

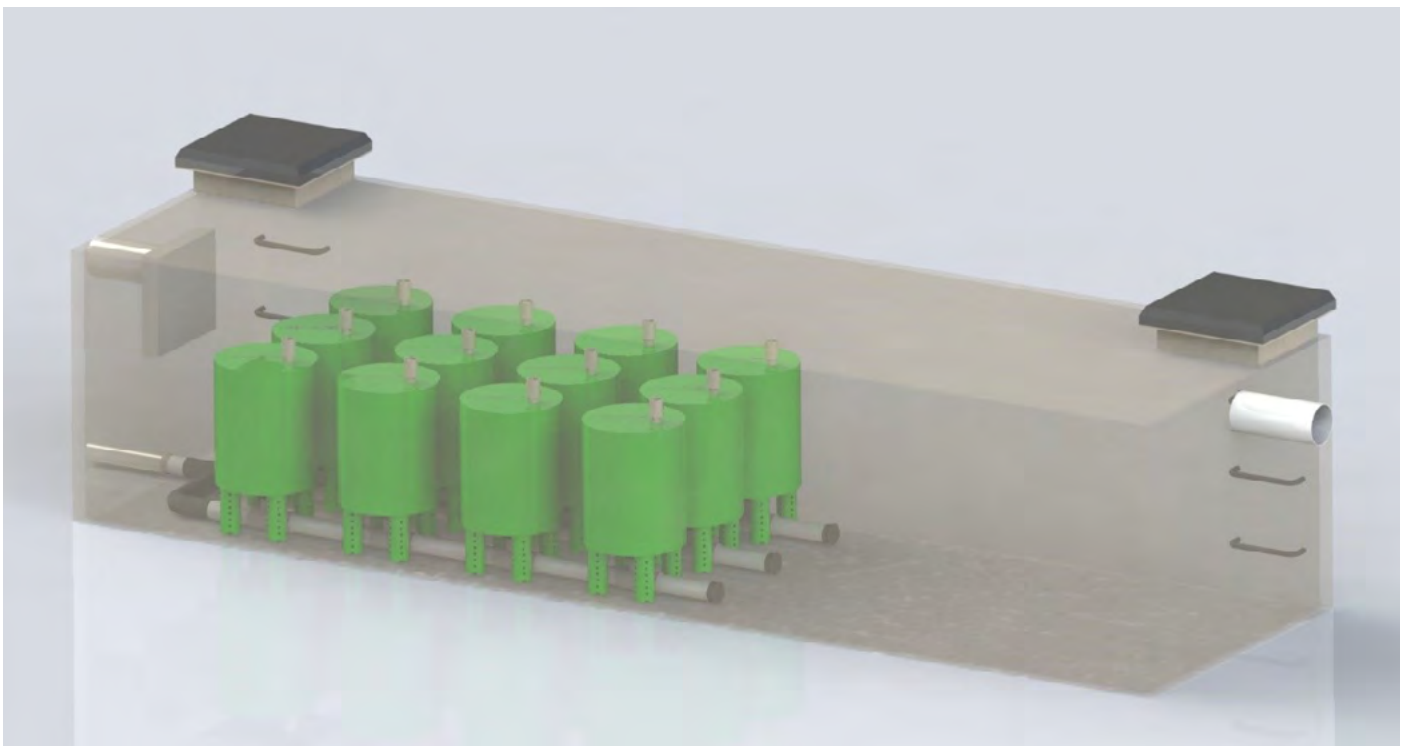
FEATURES OF XTREAMPROTECTOR

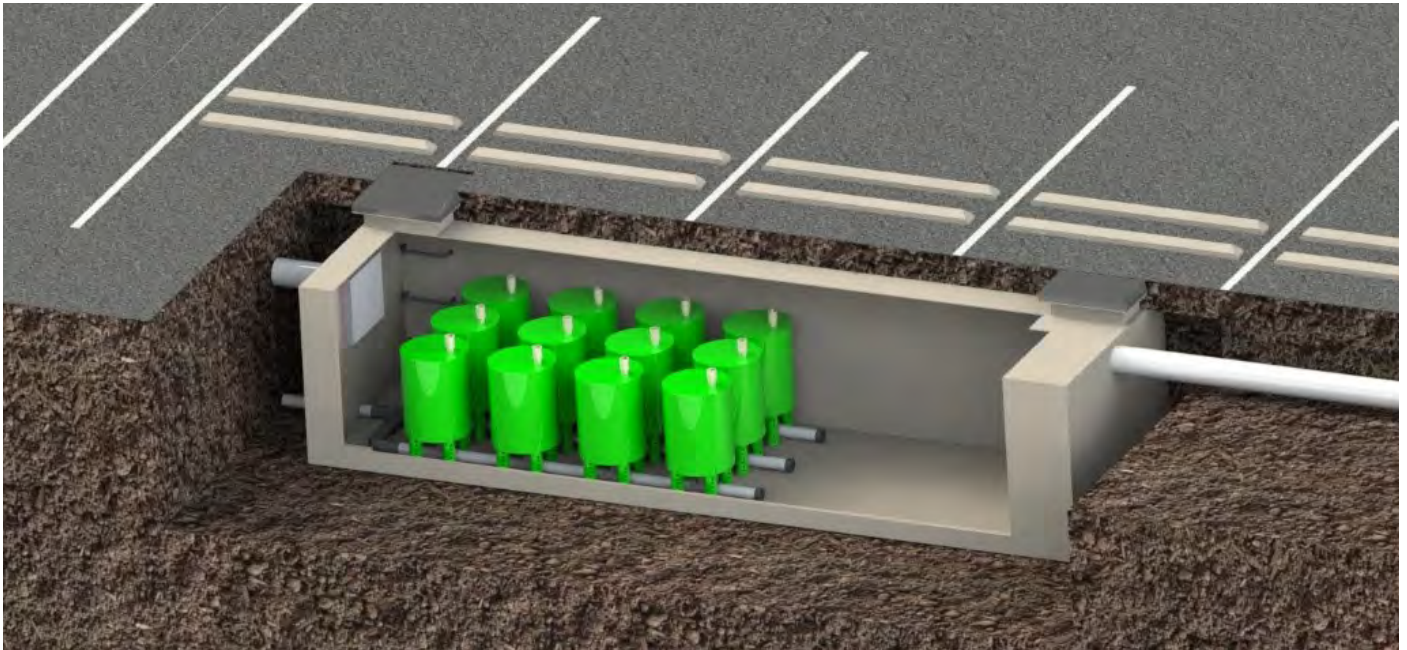
| | | | |
|--|--|--|--|
|  <p>Adsorption</p> |  <p>Sedimentation</p> |  <p>Filtration</p> |  <p>Interception and Attachment</p> |
|  <p>Up-Flow Process</p> |  <p>Backwash Cleaning</p> |  <p>Bypass System for high Flow Conditions</p> |  <p>One-Way Air Release Valve</p> |



FLEXIBILITY IN DESIGN!

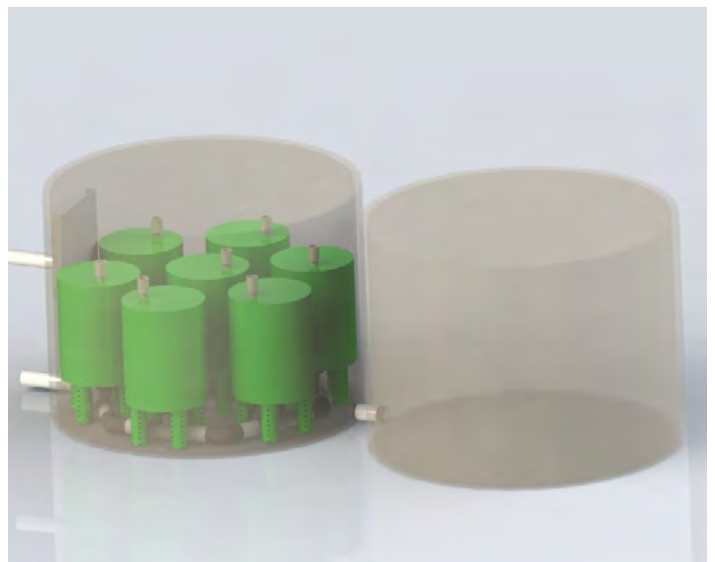
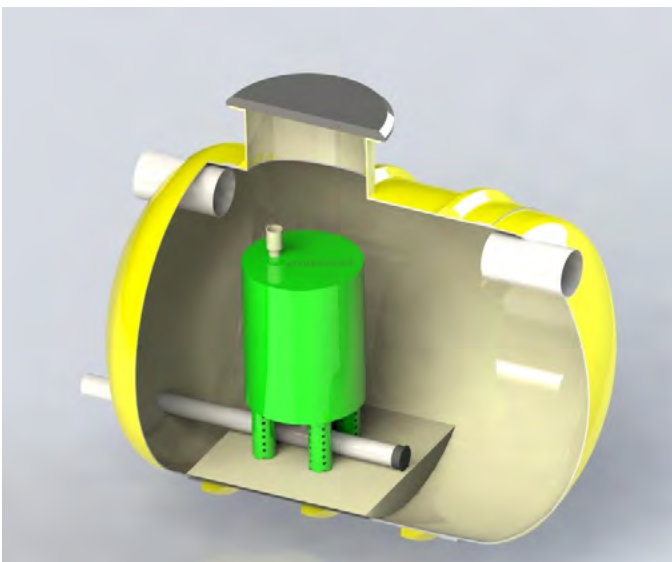
-  Due to our systems high flow rate and UP-flow design, this system can be utilised to treat a large range of flow capacity requirements and filtration requirements. Our system is also easily configured into any format required for the demands of your site! The use of concrete vaulted housing, FRP tank Installation or single use installations, the XTREAMFILTER is suitable for any site!





INSTALLATION

Installation instructions of the FRP tank configurations follow the basic instructions of any FRP horizontal tank which can be found on our website or received after contact with a member of our team. The entire system comes pre-assembled, only the ground installation into the site needs to be completed!



OTHER PRODUCTS

EcoProtector



Hydrodynamic, fill capture, high capacity gross pollutant Trap

StormProtector



Dual chamber, fine particle, sedimentation and organic pollutant removal treatment with large retention and Bypass.

HYDRAPROTECTOR

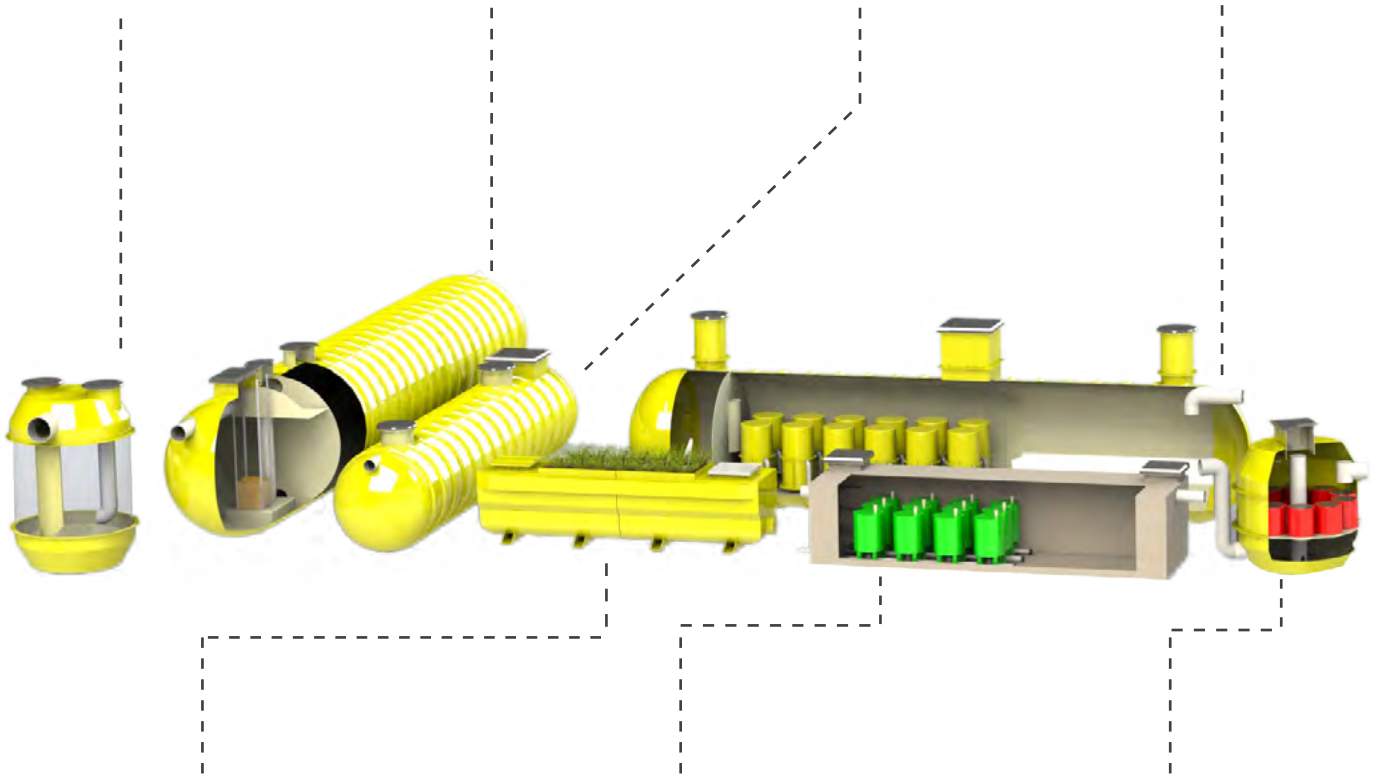


Highly efficient, full retention separator to treat first flush, fine particulates, nutrients, heavy metals and hydrocarbon filtration system.

MaxiProtector



Dual chamber, fine particle, sedimentation and organic pollutant removal treatment with large retention and Bypass.



BIOPROTECTOR



Hydrodynamic, fill capture, high capacity gross pollutant Trap

XTREAMPROTECTOR



Upflow filtration process designed to remove fine sediments, nutrients, heavy metals, phosphorus and hydrocarbons using our exclusive filter stack design.











EnviroProtector



Specialist stormwater filter for heavily polluted areas able to removing heavy metals, TSS, nutrients, hydrocarbons, designed to your requirements.



PROTECTOR

| Treatment Stages | Product Requirement | | Our Products |
|---|--------------------------------------|---|---|
|  <p>1. Primary Treatment Remove gross pollutants</p> | First flush with oil capture | Gross Pollutant Trap |  |
|  <p>2. Secondary Treatment Remove fine particles, sedimentation & attached pollutants</p> | 95% Hydrocarbon capture | Class 1 By-pass Separators |  |
| | | Class 1 Full Retention Separators |  |
|  <p>3. Tertiary Treatment Removes very fine/colloidal nutrients & heavy metals</p> | Nutrient reduction and full sediment | 90% TSS, 54% TP and 36% TN |  |
| | | Heavy Metal, TSS and Nutrient reduction |  |
| | | Heavy Metal, TSS and Nutrient |  |
| | | TSS, Sediments, nutrients, phosphorus and heavy metal removal |  |

KEEP IN TOUCH!



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