



**STORM
PROTECTOR**



SPECIALIST

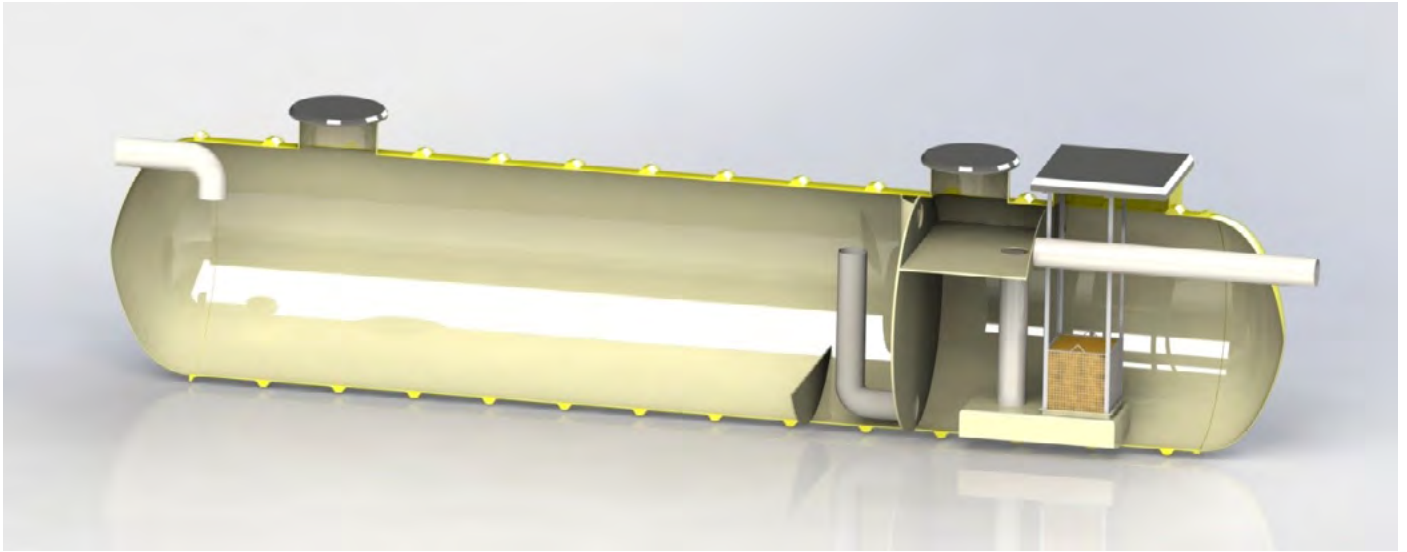
STORMPROTECTOR

STORMWATER TREATMENT

www.protector.com.au

STORM PROTECTOR











The STORMPROTECTOR by PROTECTOR is a dual chamber stormwater treatment system full equipped with internal bypass and Coalesce filtration system. The system has a large retention and settle chamber to provide a smooth flow for the secondary chamber system to allow complete filtration to the needs required of your site. With a full range of sizing along with a wide range of inlet and discharge sizes, the Protector team can provide solutions for any of your stormwater retention and filtration needs with the STORMPROTECTOR series.



The STORMPROTECTOR most efficient design is its removal of oils and hydrocarbons from stormwater, performing at 95% removal of hydrocarbons. With high amounts of oil run off from vehicles in car parks, garage forecourts and other various high traffic areas, removal of these oils and hydrocarbons from out waterways is of the upmost importance.



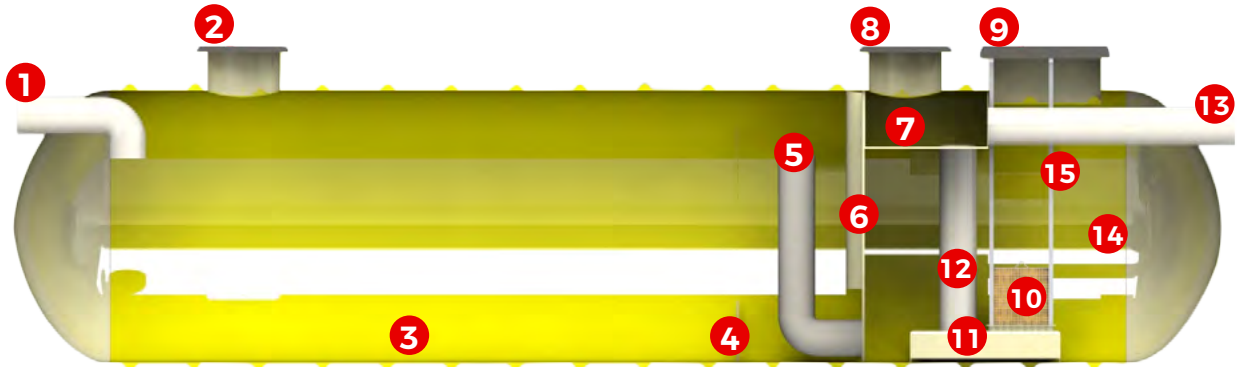
FEATURES OF STORMPROTECTOR

 Coalesce Filtration	 Settlement chamber	 Bypass	 Coalesce Filter Guiderails
 Flame Dip Inlet	 Gravity operated	 Ease of Maintenance	 Underground Installation
 Automatic alarm and monitoring system		 Automatic closure device to prevent contaminants from discharging into waterways	

A Huge benefit of the STORMPROTECTOR design is the wide Configuration Range - The STORMPROTECTOR has a wide range of sizes, inlet sizes, flow rates and possible filtration rates to suit any demand of any site.



PRODUCT STRUCTURE



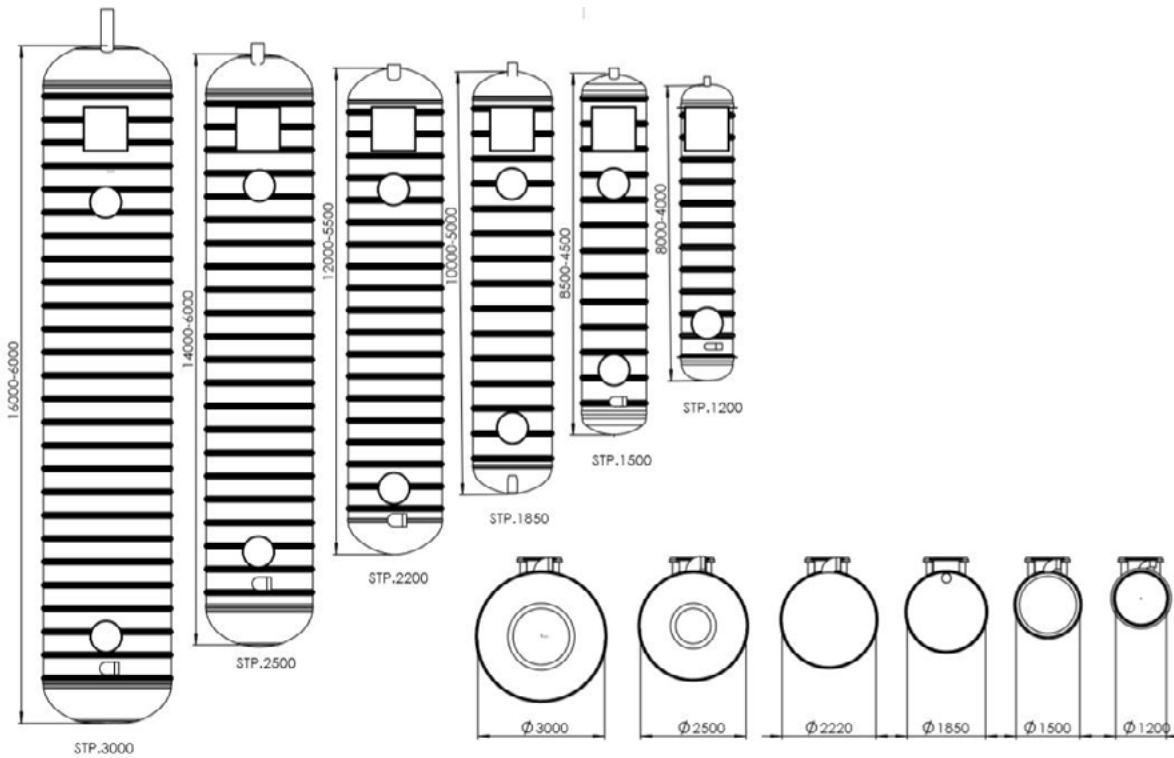
- | | |
|---|--|
| 1. Flame Dip Inlet | 9. Secondary Chamber and Filter Removal Manway |
| 2. Silt Chamber Manway | 10. Coalescing Filter |
| 3. Silt Chamber | 11. Flow Director |
| 4. Silt Baffle | 12. Exit Riser Tube |
| 5. Secondary Chamber Dropper | 13. Discharge Pipe |
| 6. Bypass Riser Tube and secondary chamber Baffle | 14. Secondary Chamber and Oil Trap |
| 7. Bypass box | 15. Filter Guide Rail System |
| 8. Bypass Manway | |

ENGINEERING

The Environment Agency has published Pollution Prevention Guidelines 'Use and Design of Oil Separators in Surface Water Drainage Systems: PPG3'. These set out the standards with which separators must comply and assist in deciding on the need for a separator at a site and the size and type that is appropriate. These Pollution Prevention Guidelines PPG3 require separators to be tested in accordance with the standard test procedure based on the European Standard BSEN858-1:2002. These standards and protocols were strictly adhered to in the design of the STORMPROTECTOR and ensure safe and viable removal of pollutants.

The Packaged StormProtectors are engineered to the following Standards: BS4994 - 1987, AS/NZS 1546.1:1998. Hydraulic and civil engineering can also be provided to your requirements.

MODEL RANGE



1200-1500 Series

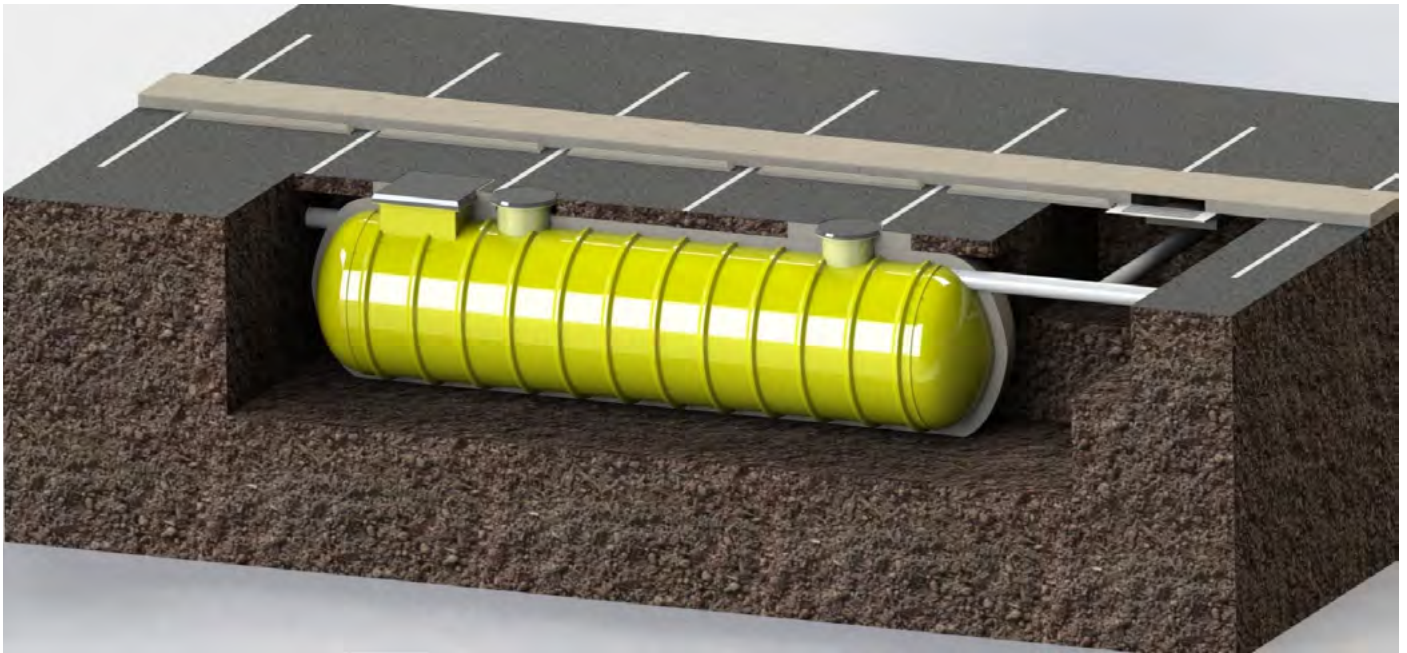
- The popular range of STORMPROTECTOR for small to medium parking areas associated with smaller supermarkets and industrial estates. These consist of 1200 diameter or 1500 diameter tanks that vary in length from 2 to 8m long and 2.5 to 9m long respectively.

1850-2200 Series

- Large capacity STORMPROTECTOR for supermarkets, hypermarkets and large vehicle parking areas, industrial complexes, docks, airport aprons etc.
- This series consists of the 1850mm diameter and 2200 mm diameter. These have lengths of 4m to 10m and 4.5m to 12.5m respectively.

2500-3000 Series

- The largest STORMPROTECTOR range, for catchment areas from eight hectares upward to more than 30 hectares. Details are supplied against specific schemes.
- This series consists of the largest diameter cases, that being 2500mm or 3000mm diameter tanks. These have lengths of 4.5m to 16m and 5m to 18m respectively.



INSTALLATION

The installation of the Storm protector follows a simple process. A complete installation hand book is supplied to ensure the installation goes smoothly and to plan. The guide provides advice for lifting, OHS measures, handling techniques and other important requirements. Installation is typically:

1. Excavate an area for positioning with suitable easy placing of the tank and filling as well as for consolidating concrete for backfilling.
2. Lifting and handling of the system must use appropriate processes. More details can be found in the Manual. All lifting apparatus (cables, straps, chains etc.) must be provided by a contractor.
3. Installation can be conducted with or without appropriately designed feet for the product, each with their own following installation instruction details found in the Installation Manual.
4. The system can be secured in several ways including Pea gravel and concrete surrounds, stabilised sand surroundings, concrete base and concrete surround, pea gravel backfill, mechanical anchoring etc. All have been clearly outlined in the installation manual provide by Protector.
5. Allow for protection of inlets/discharge points/vents to be supervised by contractor. Connect each suitably designed fitting with the desired location for completion.

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

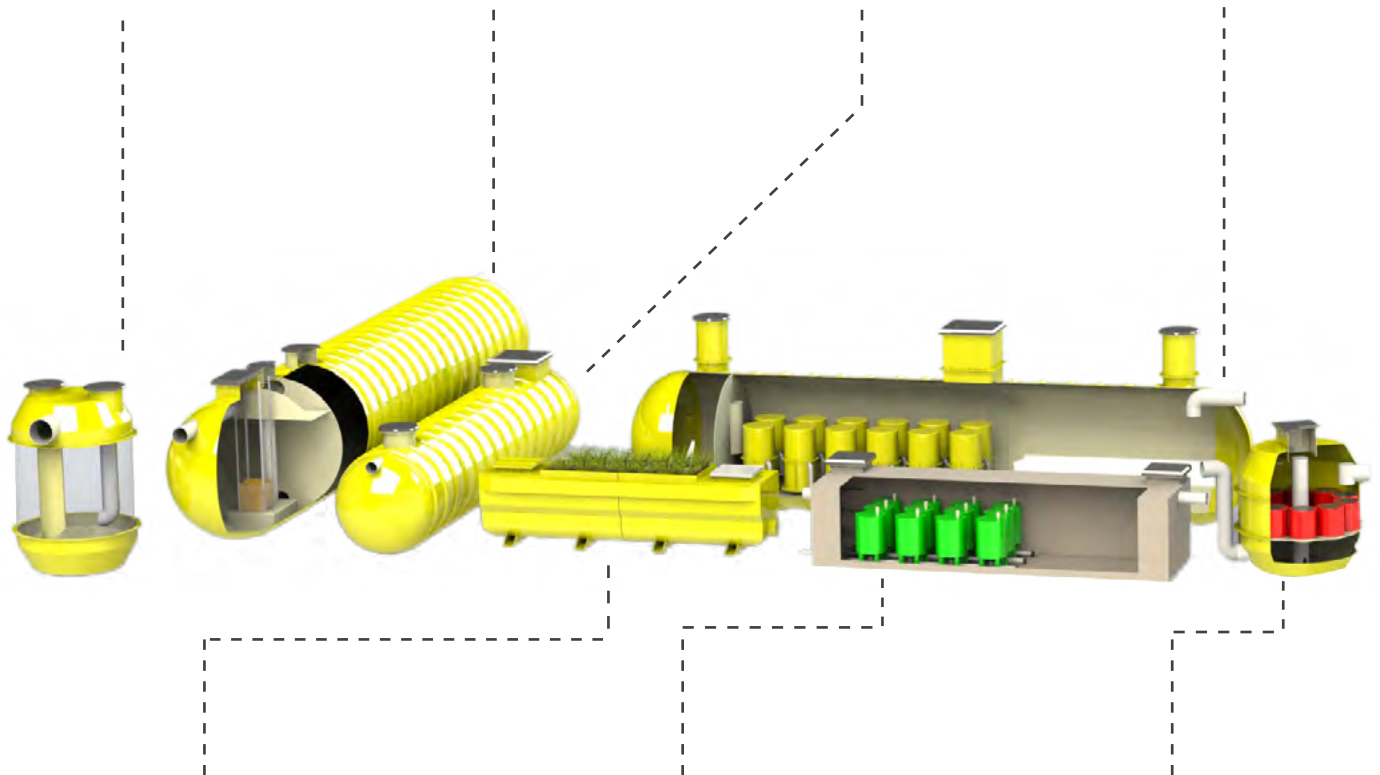


Highly efficient, full retention separator to treat first flush, fine particulates, nutrients, heavy metals and hydrocarbon filtration system.

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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