

EcoSac Screening Stormwater Gross Pollutant Trap (GPT)

A sac screening system able to screen down trash and particles with **NO** moving parts

Benefits

- Simple operation
- High capture rate of pollutants
- Low setup and operating cost
- Easy installation/retrofit to existing structure
- Proven to reduce maintenance works

Features

- Easy access for sac maintenance
- Frame support manufactured from durable & sturdy material
- Flexible design custom made to accommodate varying drain sizes
- No moving parts
- Effective sediment removal



EcoClean Technology Sdn. Bhd.
12A-18, Wisma Zelan, Jalan Tasik Permaisuri 2
Bandar Tun Razak, Cheras,
56000, Kuala Lumpur, Malaysia.

Phone: 03-91718160
Fax: 03-91719160
Email: sales@ecoclean.com.my
Web: www.ecoclean.com.my

EcoSac Screening

Stormwater Gross Pollutant Trap (GPT)

How it works?

EcoSac screening has been designed to provide a robust, durable and cost effective in-line primary treatment system. Solids are retained in the **EcoSac**. The collection volume is based on size and aperture of the EcoSac opening which prevents clogging and unsightly gross pollutants flowing and floating downstream.

EcoSac can be installed in a single or double row. The **EcoSac** screen frame is fitted with handles to facilitate convenient disposal by simply lifting out the **EcoSac** frame when it is three quarter full.

An additional option to install a silt and sediment sump can be added either upstream or downstream for increased effectiveness.

EcoClean Technology is able to design a solution based on specific site needs. It is designed to suit the maintenance schedule of the main **EcoSac** system which is carried out on a monthly basis.

What is it?

EcoSac is a sac or net type direct screening system which is able to screen down particles up to the diameter of the net's mesh spacing. With no moving parts, it is designed for easy disposal via quick pour out method. Being installed in a modular form, it is able to trap and capture floating pollutants in a fast flowing stream before discharging downstream.

Applications?

To screen and trap all floating debris and sediments before being discharged downstream which will cause blockage and flash floods. Visual inspection of the **EcoSac** ensures easy monitoring for maintenance. Unlike the conventional thrash screen which is made of steel, **EcoSac** is made of HDPE netting which is less likely to be stolen.



EcoSac
Manual operation for smaller units
Does not cause flooding with bypass net
Aperture size of 57mm X 57mm
Scalable
Sediment sump provided

Model	Frame Support Size (mm)	Sac Length (mm)	Aperture Size (mm)	Flow Rate (m3/s)	Working Load (kg)
E0510	500 x 500	1000	57 x 57	0.25	100
E1025	1000 x 1000	2500	57 x 57	1.00	1000
E1525	1500 x 1500	2500	57 x 57	2.25	2000
E1830	1800 x 1800	3000	57 x 57	3.24	3000

Only used for initial sizing. Actual model shall be determined by detailed engineering
Please check with **EcoClean Technology** for your specific needs

Features

- Modular design allows installation at most locations
- Can be retrofitted to any configuration
- Frame support is hot dipped galvanised for corrosion protection
- Frames are fitted with handles for easy removal
- Two rows of **EcoSac** can be installed for better screening performance



Manual maintenance can be done with smaller unit



Maintenance with machinery for bigger unit



Maintenance

- Routine maintenance to be carried out when **EcoSac** is three quarter full or when **EcoSac** is damaged
- If damaged **EcoSac** is not changed, screening will be ineffective and thrash will bypass.



How to Carry Out Maintenance?

Based on UK Health Safety Executive (HSE) Guidelines on manual handling, it has become more critical of lifting below foot level. With the lifting handle installed on the EcoSac frame, it prevents the need for crouching when lifting the frame. The lifting handle can also be attached to any lifting machinery for quick removal without manual lifting.

1. Lift manhole cover and individual hinged safety grille (Not applicable for open top chambers)
2. Remove securing pins on each **EcoSac** frame
3. Lift the frame out, unlock the locking rope at the end of the HDPE net and deposit the contents
4. Re-tie locking rope at the end of the HDPE net and refit the **EcoSac** frame ensuring that it sits on to the base correctly
5. Close up safety grille and manhole cover (Not applicable for open top chambers)



1. Remove securing pins



2. Lift frame out manually or with machinery



3. Deposit contents



4. Re-tie locking rope at the end of HDPE net



5. Refit **EcoSac frame into proper position**