

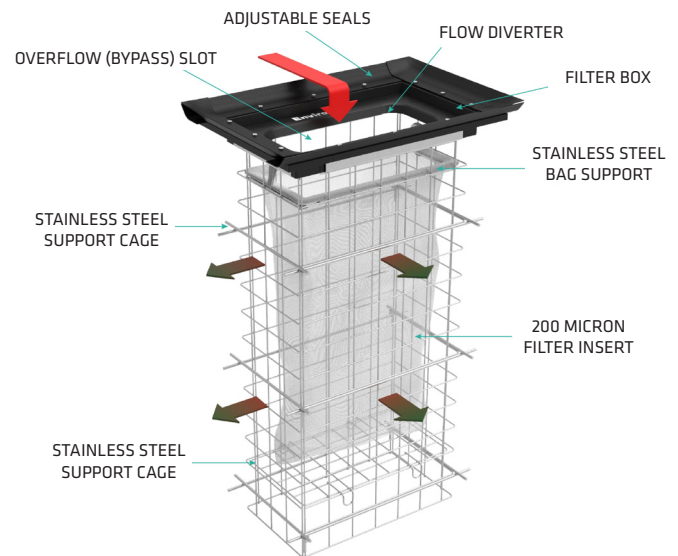
ENVIROPOD® FILTER

Cost-effective, easily maintained catchpit insert

The EnviroPod® Filter is the original stormwater drain catchpit insert designed to capture pollution that runs into stormwater drains. Easily installed into new or existing stormwater pits, the EnviroPod® Filter specifically targets gross pollutants, total suspended solids, and attached pollutants.

The EnviroPod® Filter can be installed in either kerb inlet, standard pre-cast catchpits, or manhole catchpits. Using low-cost passive screening and optional oil-adsorbent media, the EnviroPod® Filter capture pollutants at source. The EnviroPod® Filter comes with a standard 200 micron filter insert/bag, but can be customised with interchangeable filter bags ranging from 100 to 1000+ micron pore size.

The product is effective as a pre-treatment device for use in a treatment train with hydrodynamic separators, filtration devices, ponds, and wetlands. In many cases, it is often the most practical solution for retrofits. Independently trialled and tested by city councils throughout Australia and New Zealand, and with the installation of over 50,000 units worldwide including North America, the EnviroPod® Filter is the most specified and installed catchpit insert in Australasia.



HOW DOES IT WORK?

As stormwater enters a storm grate or catchpit, it passes over the oil adsorbent pads (optional) and into the filter bag. Litter, debris, and other pollutants larger than the filter bag aperture are captured and retained, while oil and grease are reduced by the oil adsorbent pads. If the filter bag is full or during high flows, overflow is released through the overflow apertures in the frame assembly.



DESIGN AND OPERATION

The EnviroPod® Filter is designed to be simply inserted into the catchpit below the grate and rest on the base of the pit. It consists of a filter bag supported by a filterbox and structural cage. Modular plastic deflector panels attach to the filterbox and guide the flow of water to the filter bag. The filter bag captures pollutants and allows the water to pass through to the outlet pipe.

Optional absorbent material inside the filter bag captures oil and grease, and openings in the filterbox allow water to bypass the bag during high flow conditions to prevent surface flooding.

There are two standard sizes to fit most pre-cast regular and kerb entry catchpits. Custom designs are able to be fabricated for non-standard pits.

CAPABILITIES

- Captures sediment, litter, debris and other pollutants before they enter the drainage system
- Fits a range of catchpit sizes – ideal for retrofits
- Easy access - maintenance friendly design, generally no confined space entry required
- Bypasses high flows with no moveable parts
- Adjustable panels allow fine-tuning during installation for a perfect fit
- Independently tested by Auckland University, NZTA, Auckland Council, Tauranga City Council, University of South Australia

Lab test results:

(200 Micron)

= 95%+ Removal of 100µ up to 20 l/sec

(Gross Pollutant bag)

= 95%+ Gross pollutant capture up to 100 l/sec

BENEFITS

- No construction resulting in low costs i.e. lowest capital cost of any stormwater treatment device
- A range of filter bag mesh sizes to target gross pollutants to fine sediment
- No need for expensive equipment
- Can be used to easily target heavily polluted areas
- Ideal pre-treatment device for use in a treatment train with hydrodynamic separators, filtration, ponds, and wetlands or overflow of swales and raingardens
- No confined space entry

MAINTENANCE

All treatment devices require maintenance to remove trapped contaminants and to minimise bypass. Due to the variable nature of stormwater pollution and localised site pollutant loadings, maintenance frequencies vary for different sites and different rainfall characteristics.

To ensure that each EnviroPod® Filter achieves optimal performance, the unit should be maintained every 6-12 months; however, it is dependent on the catchments' pollutant loading. The frequency of maintenance services should be reviewed after each service and modified if pollutant loadings deem this necessary. At the required maintenance interval, the contaminants need to be removed and disposed of appropriately.

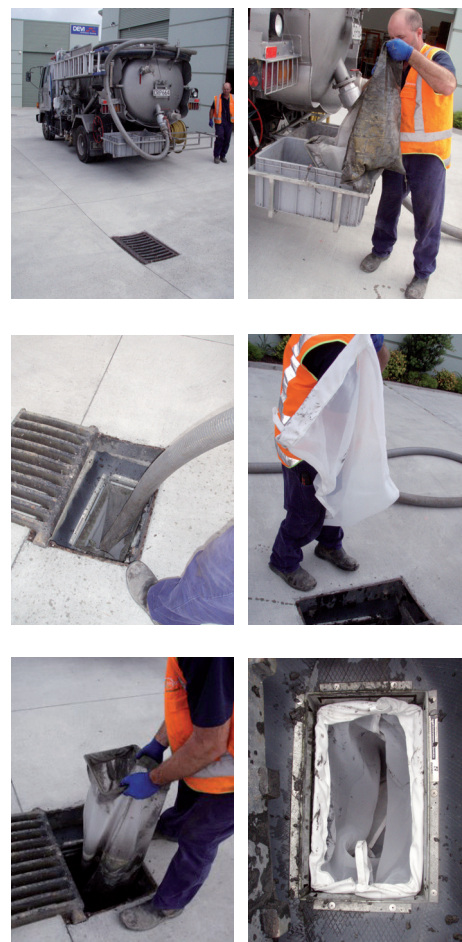
The maintenance crew is responsible for the disposal of debris by following all applicable regulations and is responsible for following all Health and Safety requirements.

Contact the Stormwater360 maintenance department for more information or to order filter bags and oil absorbent pouches. Contact us via maintenance@stormwater360.co.nz or 0800 STORMWATER

MAINTENANCE USING A VACUUM INDUCTOR TRUCK

Maintenance is a simple process that requires no confined space entry and can be quickly undertaken using a vacuum truck.

1. Establish a safe working area per typical catchpit service activity
2. Remove grate / access cover
3. Vacuum accumulated debris from the upper portion of the catchpit
4. Remove and inspect the oil absorbent pouches (if applicable) clipped to the inside of the EnviroPod® Filter filter bag. Replace with new pouches in step 8 if the pouches are dark with oil
5. Vacuum contents from filter bag. Once most of the material is removed, remove the filter bag from the EnviroPod® Filter with two lifting hooks through the loops at the top of the filter bag. Inspect filter bag and repair or replace if damaged
6. Remove stainless steel ring from top of filter bag and rejuvenate filter bag by washing using a double cold wash, or waterblast at an approved cleaning site
7. Place rejuvenated filter bag in EnviroPod® Filter. CRITICAL - Make sure the loose ends of the stainless steel ring are joined together in the connector tube
8. Re-install oil absorbent pouches (if applicable)
9. Replace grate



CONTACT DETAILS

Stormwater360

FREEPHONE:
0800 STORMWATER
(0800 786769)

www.stormwater360.co.nz

