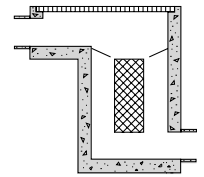
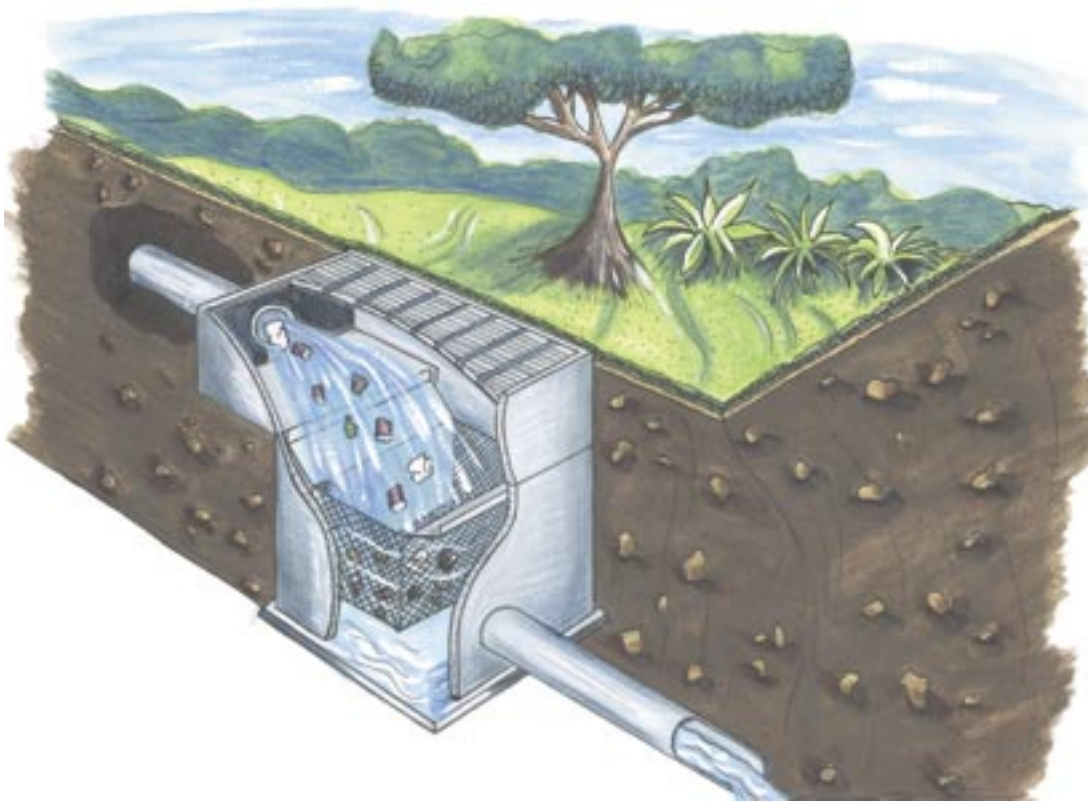
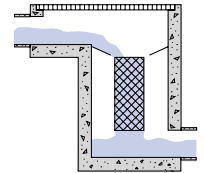


Ecosol™ RSF 1000

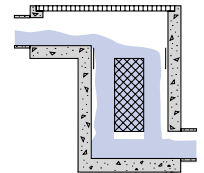
Solid Pollutant Filter



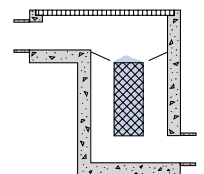
The RSF 1000 before the rain event



Pollutants are filtered from the flow



Basket is full of pollutants and overflow by-pass is activated



Flow ceases and by-pass flaps return to closed position

K E Y F E A T U R E S

Effective Pollutant and Litter Retention

- ✓ Captures more than 95% of gross pollutants > 3mm
- ✓ Collects 49% of total suspended solids
- ✓ No remobilisation of captured pollutants
- ✓ Dry storage of pollutants and no toxic fermentation

Tested and Proven Fail-Safe Overflow System

- ✓ Patented by-pass eliminates the risk of flooding
- ✓ Minimal head/hydraulic loss
- ✓ Principles independently tested at a NATA-approved facility
- ✓ Meets international guidelines and standards

Cost-Effective Maintenance

- ✓ Capture basket easily removed by small crane truck
- ✓ Base trap door allows easy emptying onto truck tray
- ✓ Easily cleaned by most street-sweeping vehicles
- ✓ Pollutants are not handled during cleaning operation
- ✓ Reduces sedimentation build-up and pipeline maintenance
- ✓ Easy access to pit for maintenance

Cost-Effective Design and Installation

- ✓ Simple design with corrosive-resistant materials
- ✓ Delivered complete as a pre-cast concrete unit
- ✓ Can be retro-fitted into existing pits
- ✓ Manufactured to fit a range of pipe sizes up to 600mm dia.
- ✓ Customised designs to suit site-specific requirements
- ✓ Safe installation procedures minimise public risk

Ecosol™ RSF 1000

Solid Pollutant Filter

The Ecosol **RSF 1000** Solid Pollutant Filter is designed to remove and retain solid pollutants in stormwater flows on a range of pipelines and consists of a pre-cast concrete pit containing a capture basket and overflow by-pass flaps. The unit is installed either in-line, or at the end of the stormwater line, where there is a drop between the upstream invert and downstream obvert levels of at least 600mm, and preferably more. This drop is needed so that the structure can house an adequately-sized basket.

Solid pollutants conveyed in flows from the upstream pipe are filtered through the basket positioned directly below the upstream pipe invert. The filtered stormwater then passes through the unit to the downstream outlet pipe and into the drainage network without any head/hydraulic loss through the unit.

As the basket approaches 90% full, the by-pass flaps begin to open in response to the incoming flow.

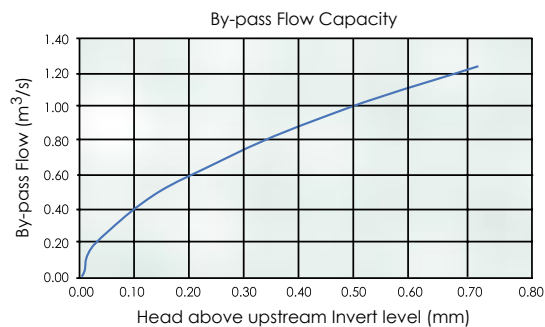
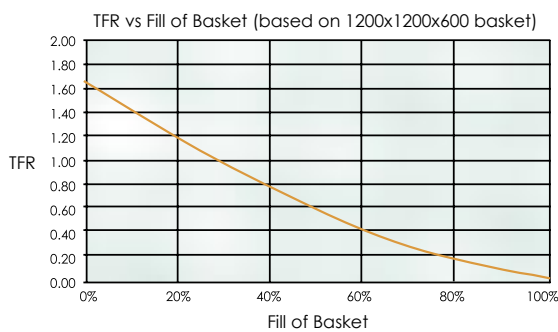
Once the basket is 100% full the pressure of the incoming flow forces open the by-pass flaps, allowing the excess flow to enter the drainage system through the by-pass openings. This effectively eliminates the likelihood of flooding. Even when in by-pass, the captured pollutants are not remobilised and are retained in the basket.

When the flow ceases, the flaps return to their normal position. In the unlikely event that the spring mechanism fails, or debris lodges in the by-pass flaps, they will be in the open position and will not obstruct the flow or cause flooding. The patented overflow by-pass minimises any hydraulic headloss on the drainage network under a worst-case scenario of full design flow and a full capture basket.

The **RSF 1000** captures more than 95% of solid pollutants greater than 3mm in size, 60% of solids greater than 200µm, and 49% of total suspended solids.

PERFORMANCE SPECIFICATIONS

POLLUTANTS	POLLUTANT REMOVAL EFFICIENCY	DESCRIPTION
Gross Pollutants	95.0%	Anthropogenic materials such as cans, bottles, plastic bags, and packing materials (generally > 3mm in diameter)
Vegetation	60.0%	Organic material, such as leaves and grass clippings (generally >200µm)
Sediment	80.0%	Solid materials > 2.36mm, both mineral and organic
	60.0%	Solid materials > 200µm, both mineral and organic
	49.0%	Solid materials > 100µm, both mineral and organic
Total Suspended Solids (TSS)	49.0%	Fine inorganic solids suspended in water
Total Phosphorous (TP)	30.0%	Total phosphorous in suspended solids and organic materials
Total Nitrogen (TN)	16.0%	Total nitrogen in organic and inorganic forms
Hydrocarbons	up to 20.0%	Free floating oils that do not emulsify in aqueous solutions



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