



SPELFilter

Cartridge Filter For Tertiary Stormwater Treatment

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SPEL ENVIRONMENTAL
INTEGRATED WATER SOLUTIONS

SPEL FILTER

Where intuitive technology meets value.

SPEL Applications Engineers are ready to design a custom SPELFilter system to meet the demands of your site.

SPELFilter provides the performance of a biofiltration system without the surface footprint disadvantage of vegetated assets. SPELFilter maximises your land use on constrained sites.



Features

- » Greater than 90% TSS Removal
- » Greater than 54% reduction in Total Phosphorus; including Dissolved Phosphorus
- » Greater than 36% reduction in Total Nitrogen; including Dissolved Nitrogen
- » Greater than 50% reduction in turbidity

How it works

The SPELFilter has an upflow treatment process, that maximises surface area. The benefit is excellent pollutant removal in a small footprint.

Hydraulic pressure forces water through the filter media, discharges through the centre tube and out through the outlet collection manifold.

Upon completion of a treatment cycle, each cartridge backwashes and effectively dislodges particulates from the filtration layers. This reestablishes filter media porosity. The dislodged particles accumulate on the vault floor for easy removal during maintenance.

SPELFilter's patented design has no moving parts and generates a true siphon effect.

A SPEL Stormceptor Class 1 upstream of the SPELFilter in the treatment train greatly increases the life cycle interval of the SPELFilter as the SPEL Stormceptor Class1 removes the larger gross pollutants, coarse sediments, total suspended solids and hydrocarbons, enabling the SPELFilter to target fine particulate matter and nutrients.



Value & Benefits

Proven Sand Filter Performance:

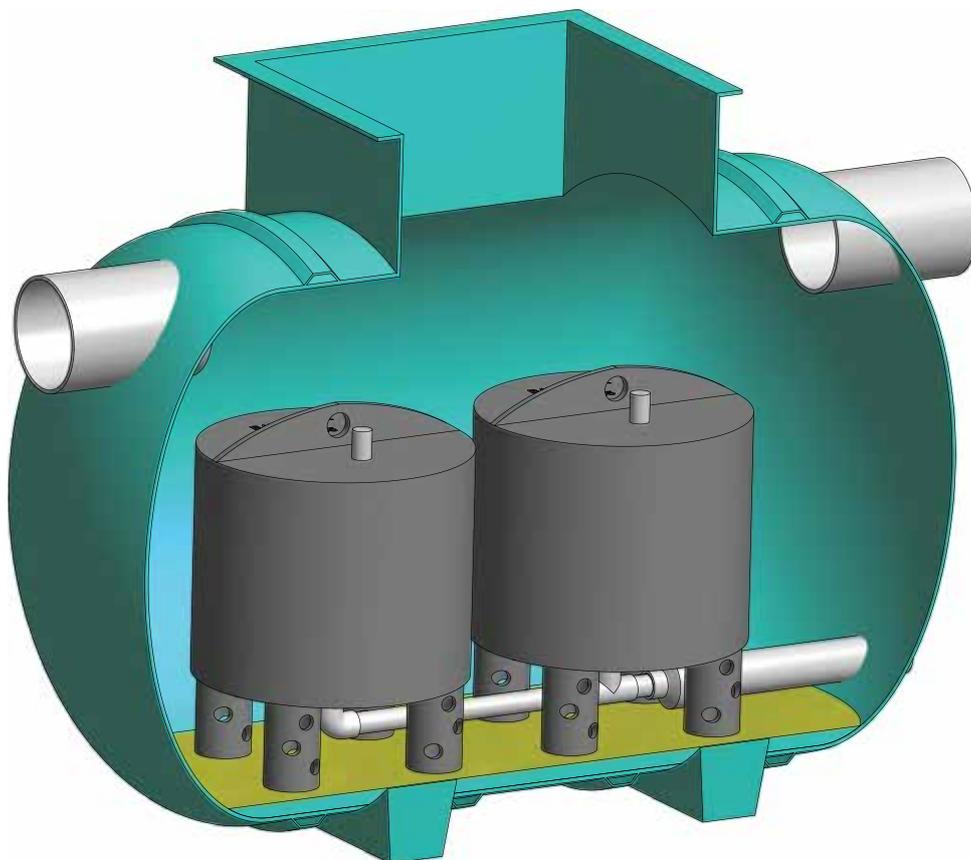
The uniform size silica-sand filter media provides for higher removal efficiencies than coarser types of media. SPELFilter media is inorganic – it doesn't leach nitrogen and other nutrients.

Greater flexibility:

Due to the significant surface area, designated flow path and high flow capacity, combined with the modular cartridge design, the SPELFilter system can be deployed in a variety of structures including manholes, precast vaults, or cast-in-place structures.

Each system is optimised to suit your specific site and local authority requirements by qualified and experienced professionals.

Filter Configurations





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