

Storm water pollution

Storm water runoff from golf greens can contain high levels of nutrients (phosphorous and nitrogen) as well as herbicides, fungicides and pesticides but very low levels of solids.



Underground piping systems

A golf green is constructed to quickly absorb water down through the playing surface where it enters a series of underground pipes for transport away from the green.

The water flowing through these pipes is visibly clean but the pollutants still exist in a dissolved form.



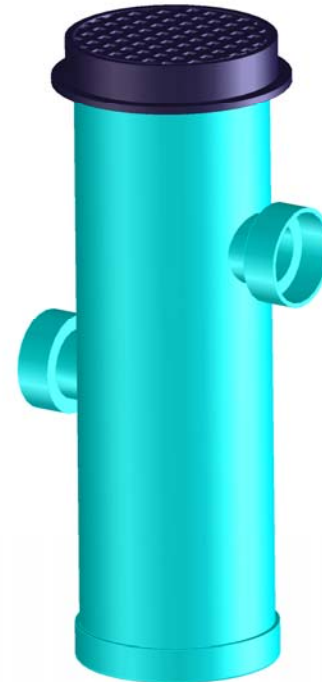
Fabco StormPlex Filter



The StormPlex is designed to treat dissolved and/or emulsified pollutants in surface water runoff.

It has minimal solids handling capability and should be installed following some other form of filtration. For golf applications a typical green acts like a very fine sand filter removing nearly all solids

The Fabco StormPlex adapts a standard 18" diameter by 5' long cylindrical drainage structure as its' filter housing



Simple design



This drainage structure is modified to accept a proprietary filter cartridge that effectively treats these identified pollutants



Fabco replaceable cartridge

Fabco builds the filtering cartridge based on the specified requirements

Cartridges can be designed for:
Hydrocarbons, nutrients, bacteria and heavy metals.

Each cartridge body has two cut-outs or windows to allow water to flow through the filter media. One window is located at the bottom of the filter which allows water into the cartridge while the other is located at the top to allow a path out of the cartridge for the treated water.





Easy installation

The cartridge is installed by removing the manhole cover on the drainage structure and slipping the cartridge down into the tube through the use of a lockable track system



How does it work?

Two Chamber System

The Cartridge bisects the tube creating two separate chambers on either side of the filter.

One chamber on the inlet side and the second on the outlet side



Runoff enters the StormPlex structure

Water directed to the StormPlex begins to fill up the chamber on the inlet side of the cartridge

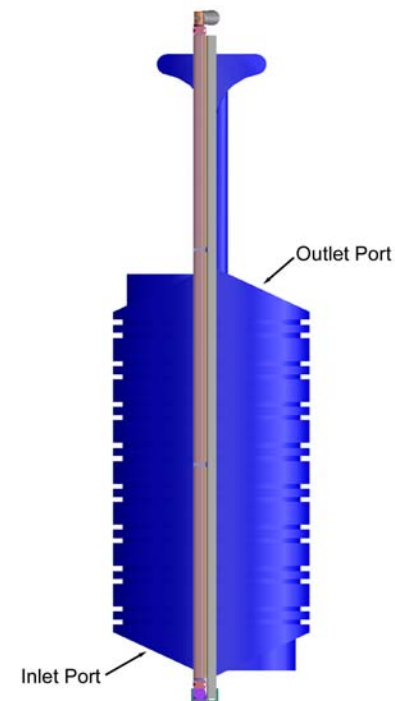
Water pressure forces the untreated runoff into the filter through the window or port at the bottom of the cartridge



Up-flow filtration path

Water entering the filter rises vertically inside the cartridge body where it flows evenly through the layers of filtering media.

When the treated water reaches the top of the cartridge body it is allowed to flow out a second window into the outlet chamber.



Treated water flows out

Clean water discharges through the second window located at the top of the cartridge and allowed to collect in a second chamber prior to flowing out of the system.

