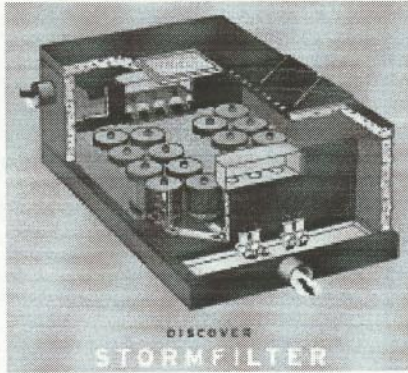


STORMFILTER®



Click on image for larger view.

Our core product, the StormFilter®, is a premier filtration system, widely recognized as a versatile Best Management Practice for removing a variety of pollutants. The StormFilter cartridges are filled with an array of media, selected to treat the specific pollutant loadings at each site. These site-specific media options give the system the ability to remove high levels of stormwater pollutants such as sediments, oil and grease, soluble heavy metals, organics and soluble nutrients. It is unique in its ability to meet current and future pollution challenges. No other system offers this degree of excellence and versatility.

The StormFilter is offered in four different configurations: cast-in-place, precast, linear, and catch basin. The precast, linear and catch basin models use pre-manufactured vaults to ease the design and installation process. The cast-in-place units are customized for larger flows and may be either uncovered or covered underground units.

System sizing

System sizing is determined by analyzing data from either volume-based or flow-based design, depending on which criterion is required by the relevant jurisdiction. Whichever design base is required, SMI engineers will work with you to determine the optimum number of cartridges and vault size. The system typically requires 2.3 feet of head differential between the inlet and the outlet. Please fill out the project information sheet found under "Engineering and Tech Support" for a size evaluation and cost estimation.

Pre-Treatment

SMI evaluates the need for pretreatment devices for each site. The system typically does not require pretreatment, but if it is needed the following devices may be used: sedimentation vaults, manholes, oil/water separators, detention/sedimentation tanks or ponds. Our engineering team can provide recommendations on the need for and size of these facilities. Depending on individual site characteristics, some systems should be equipped with a StormGate high-flow bypass. The StormGate is used when the peak storm event generates a flow that exceeds the overflow capacity or design capacity of the system.

Delivery

SMI provides the precast StormFilter to the end user as a complete system. The system is typically delivered to the project site in two separate shipments. The precast vault is first delivered to the site by the local precaster. Once the project is near completion, the site is paved, landscaping is complete and the storm drains are clean, filter cartridges are delivered for installation in the vault. The filter cartridges can be installed by the on-site contractor or SMI.

BMP Approval

The StormFilter is approved as a Best Management Practice (BMP) with many agencies throughout the US. Regulatory requirements for designing BMPs vary from state to state, and may be based on a water quality flow rate determined from a design storm, a water quality volume, or removal efficiency for a target pollutant. SMI will help you work with your local governing agency to ensure that your StormFilter system meets their requirements.

PRODUCT LIST

STORMFILTER
CATCH BASIN
STORMGATE
THE CARTRIDGE
FILTER MEDIA

ENGINEERING

SUMMARY OF
DRAWINGS
ONLINE DESIGN
SUBMITTAL
REGIONAL INFORMATION

MAINTENANCE

BACKGROUND
EASE OF PRECAST
FLEXIBLE DESIGN
MEDIA OPTIMIZATION
MAINTENANCE

CONTACT US

SITE MAP
LINKS

