

# ADS SINGLE CARTRIDGE BAYFILTER™ FOR GOLF GREEN APPLICATIONS

BaySaver Technologies Inc, a leading supplier of stormwater quality treatment technologies, has adapted the BayFilter system for application on golf courses. With an enhanced sand filter media, the system is designed to reduce total nitrogen, total phosphorus, metals and suspended sediment from rain fall and irrigation water discharged from golf course greens.

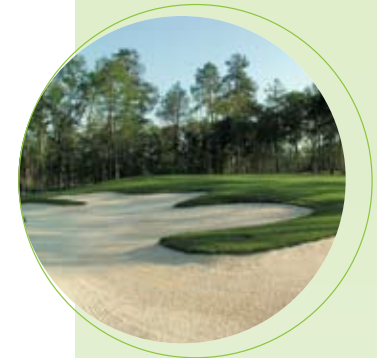
The BayFilter system is an up-flow sand filter engineered to efficiently and effectively remove fine sediments, nutrients, and other pollutants in discharged water. Based on proven sand media filtration technology, BayFilter delivers sand filter performance in a cartridge design.

A single BayFilter Cartridges has over 43 square feet of sand filter surface area. This allows for a flow rate of 30 gpm per cartridge at a conservative filtration rate of 0.7 gpm per square foot. A unique passive, siphon backwash system cleanses the filter surface area after every storm event or irrigation cycle.

The Golf Green Cartridge system is a single cartridge system specifically designed to work in conjunction with a 30 inch Nyloplast® drain basin. The Nyloplast PVC basin connects directly to the subsurface drainage of the golf green. The runoff is filtered by the BayFilter prior to being discharged.

Maintenance of the system is extremely easy. The filter is removed and replaced with the cartridge itself being recycled. Sediment and other materials contained in the basin are then removed by vacuum.

The BayFilter system is available exclusively through Advanced Drainage Systems, Inc.



## FEATURES:

- Easy to specify, install, and maintain
- Removes total suspended solids, phosphorus, nitrogen, and other pollutants
- Cartridges may be recycled
- Drain Down Module allows full evacuation of water

## BENEFITS:

- Cost Effective
- Reduced Life Cycle Costs
- Promotes sustainable design
- Prevents Mosquito breeding and anaerobic conditions

**ADS Service:** ADS representatives are committed to providing you with the answers to all your questions, including specifications, and installation and more.



## ADS SINGLE CARTRIDGE GOLF CARTRIDGE SPECIFICATION

### COMPONENTS

Drain Basins shall be manufactured from PVC pipe stock, utilizing a thermo-molding process to form to the correct configuration.

Drainage pipe connection shall be formed from PVC pipe stock to provide a watertight connection with the specified pipe system. Joint tightness shall conform to ASTM D3212.

The pipe stock used to manufacture the main body and pipe stubs shall meet the mechanical property requirements as described by ASTM D3034.

Grates for the drain basin shall be ductile iron and shall be made specifically for each basin. Grates shall be capable of supporting H25 wheel loading for heavy duty traffic or H10 loading for pedestrian traffic. Metal utilized to manufacture the castings shall conform to ASTM A536 grade 70-50-05 for ductile iron.

**Filter Cartridges:** External shell of the filter cartridges shall be substantially constructed of polyethylene or equivalent material. Filtration media shall be arranged in a layered fashion to maximize available filtration area. An orifice plate shall be supplied with each cartridge to restrict flow rate to a maximum of 30 gpm.

**Filter Media:** Filter media shall be by BaySaver Technologies Inc. Filter media shall consist of the following mix. Sand media shall have an effective particle size of not more than 0.49 mm, it shall have an angular grain shape, a hardness of 7, be 99% silica, and not leach nutrients. The media shall also include a blend of Perlite and Activated Alumina.

### PERFORMANCE

The filter system shall be a design capable of treating 100% of the required treatment flow at full sediment load conditions.

The stormwater filter system's cartridge units shall have no moving parts.

The stormwater treatment unit shall be designed to remove at least 85% of total suspended solids and 70% total phosphorus based on field data collected in compliance with the Technology Acceptance Reciprocity Partnership Tier II test protocol.

The stormwater filtration system shall not have any components which leach nitrates or phosphates.

The stormwater filtration cartridge shall be equipped with a hydrodynamic backwash system to extend the filter's life and optimize its performance. Inlet flow shall be upflow.

### INSTALLATION

Installation of the BayFilter Single Golf Cartridge system shall be performed per manufacturer's installation instructions.

For more information about the BayFilter Cartridge for Golf Green Applications contact your Advanced Drainage Systems, Inc. representative at 1-800-821-6710

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