

# UniScreen Stormwater Screening Technology

## Partial Project List

New Castle Properties  
Weaver Lake Road  
Cazenovia Creek  
Brookfield Subdivision  
Polo Grounds Subdivision  
Technology Park  
Montessori Learning Academy  
McDonalds Restaurant  
KFC Restaurant  
First Niagara Bank  
Summerfield Farms  
Wegmans Food Market  
SUNY Medical Garage  
Pleasant Meadows Subdivision

## Contact Information

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The UniScreen Stormwater Screening Technology provides treatment of stormwater using locally available precast manholes and vaults. The UniScreen incorporates a dual function insert. One function is to trap buoyant solids and sediment via physical screening, the other is to act as a flow diffuser /distributor improving the removal of sediment, floating oils, and debris.

The screen face area is 5 times larger than that provided by alternate screen inserts. Increased screen face area results in lower head loss and allows for online operation to eliminate pollutant bypassing during high intensity rainfall events. The unique design of the screen allows for improved self cleaning during the storm events thereby decreases maintenance requirements and potential screen obstruction.

- **Single Structure configuration**
- **250um Particles and Larger**
- **Locally manufactured**
- **Self Scouring Screen Technology**

The UniScreen Inserts are manufactured from materials proven to be resistant to corrosion during long term exposure to Stormwater.

UniScreen Stormwater Screening Technology is sized to help meet the EPA goals for pollutant removal. Every UniScreen design includes WQF and Design Storm Hydrology, estimated cleanout interval, and Design Storm Backwater Analysis. The UniScreen design will be provided with a critical particle size removal efficiency. For redevelopment projects the Environment 21 UniScreen is readily adaptable for retrofit in existing structures with sufficient sump depths (to be reviewed by Env21 Engineers).



## Service Features and Maintenance



Because of the unique design and use of vertical inserts the entire floor area of the UniScreen is accessible for inspection and maintenance. In addition, due to the hydraulics and flow pattern of the system the UniScreen is able to maintain a 4 foot to 6 foot sump depth, thereby decreasing the total depth of the system for maintenance. Ideal applications of the UniScreen would be pretreatment or post treatment to detention ponds, thereby minimizing floating pollutants in highly visible subdivisions.

With such high profile projects as SUNY Medical Garage in NY why shouldn't you be using a Stormwater Screening Technology that has your maintenance needs in mind. The UniScreen system is also ideal for applications where a high end/highly efficient hydrodynamic separator or filter systems is not needed, but a lesser form of pollutant reduction is desired or acceptable. The UniScreen is available in a variety of open screen areas and sizes to meet your project demands.

## System Sizing

Model	Impervious Area	Max. Inlet Pipe	Peak Flow
5SC	0.0 -4.0 acres	18"	7 cfs
6SC	4.0 - 10.0 acres	24"	16 cfs
7SC	10.0 – 12.0 acres	30"	25 cfs
8SC	12.0 – 15.0 acres	36"	35 cfs
10SC	15.0 – 20.0 acres	42"	48 cfs
12SC	20.0 – 25.0 acres	48"	60 cfs

### SERVICES AVAILABLE

[Technical Support](#)  
[Preliminary Designs](#)  
[Installation and Setup](#)  
[Maintenance](#)  
[Application Support](#)

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## 24 Hour Preliminary Designs

By completing our user friendly online Sizing Request Form a preliminary design can be waiting in your inbox within 24 hours. There is no need to register, and no annoying salesmen will call on you. In addition, our expert sales & engineering staff can assist you with any regulatory approval.

