



UniStorm Properties

- 1 manhole configuration
- Constructed with local materials (e.g., concrete, pipe, etc.)
- Treats flow from upstream structures and/or UniStorm inlet grate.
- First Stage pollutants storage

- Baffle wall (floatable collection)

Benefits

- Ease of maintenance
- Each UniStorm design is unique to the site conditions
- Design Includes shop drawings, Specifications, maintenance schedule and Back- water analysis.
- Baffle wall (floatable collection)

About the UniStorm

The "UniStorm" provides primary treatment of stormwater using locally available precast manholes. The Unistorm system employs low-head loss internal flow diffusers and flow distributors to reduce stormwater turbulence and improve flow distribution. This allows on-line operation to eliminate pollutant bypassing during high-intensity rainfall events. Its design allows it to help you meet the EPA goal of 80% TSS removal efficiency and 40% phosphorus Removal. Shallow sump depth of 4-5 feet reduces excavation costs and facilitates pumpout. UniStorm systems are ideal for sites with limited space and/or difficult soil conditions.

Maintenance of the unistorm is achieved without confined space entrance into the system. With the Unistorm you are able to visually inspect all areas of the chamber from above thru a minimum of 2 access openings, no inserts to obstruct your inspection or cleanout.

Let ENV 21 will do the work for you.

ENV 21 will properly size, design and provide you with the appropriate product to fit your project and your budget. We will provide you with Shop drawings, Specifications, installation details, Back-water analysis and a maintenance schedule. We even offer Maintenance agreements with maintenance performed according to the recommended schedule. What could be easier.

Sizing

Model	10 Yr Design Rate (cfs)	Approx. Treatment Rate (cfs)	Max. Pipe Dia. (in.)
5R	4.3	1	18
6R	6.2	1.4	24
7R	8.5	2	24
8R	11	2.7	30
10R	17.3	4.2	36
12R	25	6	42



Model	Approx. Dia. (ft)	Approx. Height (ft)	Approx. Sump (ft)	Approx. Sump Vol. (CY)
5R	5	7	4.5	3.2
6R	6	8	4.8	5
7R	7	9	5.1	7.2
8R	8	10	5.5	10.1
10R	10	11	6.1	17.6
12R	12	12	6.8	28.3