FACT SHEET- PROPRIETARY UNITS

PROPRIETARY UNITS
Also know as: Structural Units, Physical Separators, Prefabricated Units, and Manufactured Units.

GENERAL DESCRIPTION
Proprietary units, or manufactured units, very in design and use to serve a wide variety of storm water quality needs. They are generally constructed offsite and are installed as a unit. Some are designed to target a particular pollutant, such as hydrocarbons, while others remove multiple pollutants. Proprietary units can be very useful when a particular pollutant needs to be removed as part of pretreatment or where space is limited as part of a treatment train. Proprietary typically provide treatment, but not volume capture.

CHAMBERED SEPARATOR UNITS

GENERAL INSPECTION AND MAINTENANCE REQUIREMENTS
A maintenance plan shall be provided with the Final SUSMP. The maintenance plan shall include the manufacturers recommended maintenance practices, designation of parties responsible for maintenance and upkeep, specify the funding source for ongoing maintenance with provisions for full replacement when necessary and provide site specific inspection checklist.
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CHAMBERED SEPARATOR UNITS

Use the properties of different pollutants to remove each in a separate chamber. As such, these units tend to be larger. They can either be inline with the storm drain system, or offline. An access point must be provided to each chamber for maintenance purposes. These units must be maintained with a vacuum truck.

TRASH EXCLUDERS

Use screens or other physical filtration to prevent trash from entering the storm drain system. The collected trash can either be stored in a portion of the inlet or in the curb. High flow bypass must be provided to prevent clogging and backup. These units must be maintained with a vacuum truck.

FILTER INSERTS

Use bags and/or fabric or other physical filtration to filter out trash, sediment, and/or hydrocarbons. Some filter inserts are designed to remove particular pollutants. High flow bypass must be provided to prevent backup.
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**CENTRIFUGAL SEPARATOR UNITS**

Use curved baffles to direct storm water so that centrifugal force drops sediment and debris out and usually use screens to collect floatable material. These units can be either inline with the storm drain system or offline. These units must be maintained with a vacuum truck.

**TREE FILTER UNITS**

Are combination units that use both structural and biological elements to clean storm water. They generally consist of a concrete vault filled with a special soil mix that a tree or shrub is planted in. Storm water is directed into the unit, filtered through the soil, and collected in a perforated pipe and conveyed to the storm drain system. High flow bypass must be provided for high intensity rain events.