



Submittal/ Specification Data Sheet

The BaySaver[®] Separation System

The BaySaver[®] Separation System is a stormwater treatment BMP used to remove total suspended solids (TSS), free floating oils and debris.

It consists of (2) standard precast manholes, (1) BaySaver unit constructed of high density polyethylene containing black carbon for UV resistance, (2) Fernco couplers, (2) Mar Mac polyseal couplers, (2) connection pipes and an HDPE reducer/adaptor.

Product Benefits

- The BaySaver System will treat at an 80% or higher efficiency rate for TSS removal
- Treats the entire storm, not just the first flush
- Off line storage eliminates resuspension of pollutants
- Does not require green space
- Easy one day installation
- Inspection and maintenance without confined space entry
- Meets ASHTO H-20 requirements

Manhole Sizing

BaySaver Separation Systems use identically sized structures for both the primary and storage manholes (see Table 1). The designer can choose to use larger manholes to account for factors specific to the site such as a need for increased pollutant storage. The additional sediment and oil storage capacity will result in a longer interval between required maintenance procedures.

Table 1: BaySaver Separation System standard manhole sizing guidelines

Specify Unit here	BaySaver Unit Model	Maximum Treatment Flow (cfs)	Primary Manhole Diameter (inches)	Storage Manhole Diameter (inches)
	1/2K	1.1	48	48
	1K	2.4	48	48
	3K	7.8	60	60
	5K	11.1	72	72
	10K	21.8	120	120

Storage Capacities

BaySaver Systems retain the trapped pollutants in the two precast manholes. Maintenance is required when the accumulated sediments in either manhole reach a height of two feet from the floor. The maintenance interval for a typical installation is determined by the sediment buildup; on most sites, oils and floatables will not accumulate at the same rate as solids.

Table 2: BaySaver System storage capacities

Model/System Size	Total System Volume (gallons (ft ³))	Sediment Capacity (yards ³ (ft ³))	Floatable Capacity (gallons (ft ³))
1/2K 48 X 48	1475 (200)	1.86 (50)	280 (37)
1K 48 X 48	1475 (200)	1.86 (50)	280 (37)
3K 60 X 60	2325 (310)	2.90 (78)	430 (58)
5K 72 X 72	3350 (450)	4.18 (113)	630 (84)
10K 120 X 120	5950 (800)	7.44 (201)	1110 (150)

Treatment Flow Rates

The best way to size the BaySaver System is to calculate the flow rate that will be conveyed through the system. In this way it can be determined which separator unit meets site specific design capacities and local regulations (see Table 3).

Table 3: BaySaver Separator unit flow rates

Specify Unit Here	BaySaver Model Number	Maximum Treatment Flow (cfs/gpm)	Peak design Flow (cfs/gpm)	Head Loss (inches)
	1/2K	1.1 / 494.0	8.5 / 3815	6.3
	1K	2.4 / 1076.4	10 / 4485	5
	3K	7.8 / 3498.4	30 / 13455	6
	5K	11.1 / 4978.3	50 / 22425	12
	10K	21.8 / 9777.3	100 / 44850	12

Questions

Please call toll free **(800)229-7283** or visit our web site at www.baysaver.com