



Petro Barrier Systems Inc.

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V8V 4X8



Patented  
Muir Lock  
Monster  
Technology  
Protection

## Petro Barrier Storm Drain Protector

### Storm Drain Barrier Oil and Grit/Water Separator

This new product is essentially a miniature oil/water separator, and is also excellent at preventing grit and dirt from entering the drain. It can be used on its own to prevent oil sheen from entering the drain, and is most suitable for applications where a large spill of contaminants is likely. For example, it is ideal for preventing oil sheen from entering sewers in parking lots etc. Optional floating pad can also be added to increase the amount of oil that can be handled. For applications where grit and dirt are present but there is also the possibility of large amounts of contaminants entering the sewer, this device can be used in conjunction with the Basket Filter. This combination offers complete containment along with the ability to prevent debris from clogging the Basket Filter™ pads.



### Three Stage Oil Water Separator in Drain of Automotive Car Dealership in operation.

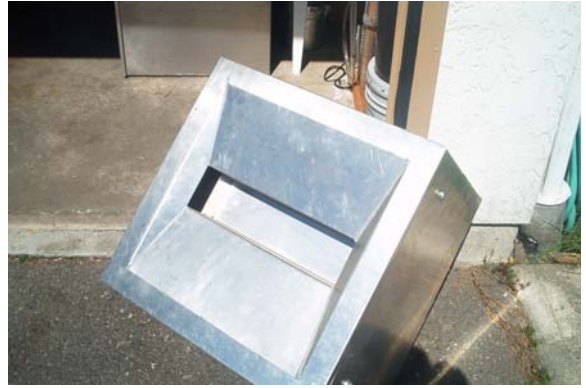
Oil and sludge washed into drain and passes into compartment # 1 where it settles then water and less oil and sludge pass into compartment # 2. Oil and Sludge are allowed to settle in this compartment and water, relatively free of oil and sludge pass into compartment # 3. Finally oil and sludge free water exits from # 3 through the outlet pipe to a second drain and then to the city storm drain system.

The water in # 3 shows no evidence of sludge and oil sheen.

## Petro Barrier Storm Drain Protector



Petro Barrier Storm Drain Filter-Protector



Petro Barrier Storm Drain Top



### Description:

The Storm Drain Barrier is the recommended product for the protection of drains in case of major oil spills. If a spill produces more than the normal 'sheen', or if there are trace amounts of oil present in the water exiting into the storm drain, it will create a barrier which will stop the hydrocarbons from flowing any further.

For the standard storm drain, the barrier comprises of 4 types of barriers:

- Three of these barriers are designed for filtering and plugging the water.
- The remaining is a by-pass that instantly plugs the barrier when activated by the three filtering barriers becoming blocked. If the plugging is caused by oil, the by-pass barrier will stop any further flow of liquids. However, if grit and silt or other non-hydrocarbon material causes the block, the by-pass barrier will allow water to continue to flow freely.

**Note: Measure before you order**

## Petro Barrier Storm Drain Protector

**Performance:**

A standard drain is 24" x 24" which means a barrier for this size would comprise of four 6" in diameter barriers.

For example:

Flow rate though the barrier (Normal rainfall – 3 barriers)	150 G/hr
Flow rate (High rainfall – 4 barriers)	200 G/hr
Oil removed by barriers	2 USG
Volume of water passing through the barriers before blocking	
At 100 ppm oil in water	16,000 USG
At 50 ppm oil in water	32,000 USG
At 10 ppm oil in water	160,000 USG

Examples of non-point sources of storm drain pollution include the following:

- Sediments from construction, forestry operations and agricultural lands;
- Oil and grease washed from roads, parking lots and driveways;
- Litter thrown onto streets, sidewalks and beaches, or directly into the water by individuals.

Size:

Product code	Description
MLM-SDB-22	Storm Drain Protector - 24" x 24"
MLM-SDB-24D	Storm Drain Protector - 24" Diameter

## MEASURING STORM DRAINS

Storm Drains are Square, Rectangular or Round

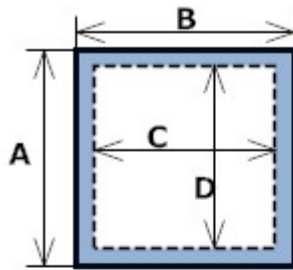


Fig 1

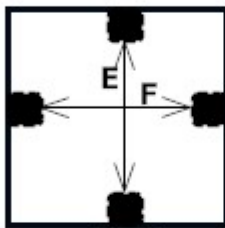


Fig 2

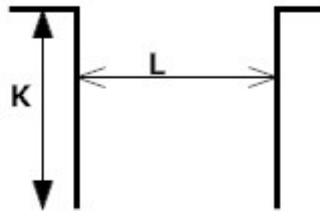


Fig 6

Round

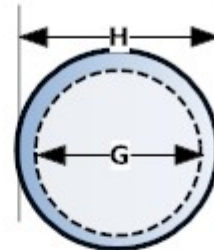


Fig 3

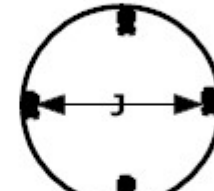


Fig 4



Fig 5

### MEASUREMENTS

A,B,H External Dimensions of Drain (Figs 1&3)

C,D,E,F,G,J Internal Dimensions of Top Opening (Figs 1,2,3,&4)

L Internal Dimensions of Drain - Wall to Wall (Fig 6)

K Depth of Drain to First Restriction (Fig 6)  
(is Clearance at least 12 Inches?)

### NOTES:

1. Does the top grid sit on a continuous lip (Figs 1,3) or on a small projecting lugs (figs 2,4)
2. In round drains, is the top grid dished as shown (Fig 5)

If you have a measurement questions please call or email  
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