

SPECIFICATIONS

Trench Drain Filter

I. Specifications

Coverage: The Trench Drain Filter provides full coverage of trench drains, at rated flows, is conveyed to the filter. The filter will retain all windblown and swept debris entering the drain. The Trench Drain Filter is located directly beneath the trench drain grate for direct service/access from the surface. The filter is made to direct water flow from the trench grate through the filter media before entering the trench unit.

Non-Corrosive Materials: All components of the filter system, including mounting hardware, fasteners, support brackets, filtration material, and support frame are constructed of non-corrosive materials. The frame is manufactured of marine grade fiberglass, gel coated for UV protection. No polypropylene, monofilament netting or fabrics shall be used.

Durability: Filter (excluding oil absorbent media) and support structures are of proven durability, with an expected service life of 10 to 15 years. The filter and mounting structures are of sufficient strength to support water, sediment, and debris loads when the filter is full, with no slippage, breaking, or tearing. All filters are warranted for a minimum of five (5) years.

Oil Absorbent Media: The Filter is fitted with Bio Sorb, an absorbent media for removal of petroleum hydrocarbons from influent, and so placed in the filter assembly to treat influent at rated flow. Absorbent media is easily replaceable in the filter, without the necessity of removing fixed mounting brackets or mounting hardware.

Filter Bypass: Water will not bypass the filter inlet contact surfaces at low flows.

Pollutant Removal Efficiency: The filter is designed to capture high levels of trash and litter, grass and foliage, sediments, hydrocarbons, grease and oil. The filtered flow maximum capacity is 0.064 cfs per foot.

Filter Media Replacement: Removal and replacement of the booms containing the absorbent media is accomplished without the necessity of removing mounting bolts, support frames, etc.

Filter Removal: The filter is readily removable from the trench drain for maintenance or replacement without the necessity of removing mounting bolts, support frames, etc.

II. Installation

Installation: The filter will be securely installed in the trench drain, with contact surfaces sufficiently joined together so that no filter bypass can occur at low flow. All anchoring devices and fasteners are installed within the interior of the drain inlet.

Installation Notes:

1. Bio Clean Environmental Services, Inc. inlet filter inserts shall be installed pursuant to the manufacturer's recommendations and the details on this sheet.
2. Inlet filter insert shall provide coverage of entire trench inlet opening
3. The Trench Filter is installed by lifting the grate and inserting the filter so the filter lip sits underneath the grate. The filter is manufactured so the sections overlap each other for easy installation.

III. Maintenance

Maintenance: The filter is designed to allow for the use of manual or vacuum removal of captured materials in the filter structure. The filter is serviceable manually or by centrifugal compressor vacuum units without causing damage to the filter during normal cleaning and maintenance. Filters can be cleaned easily by simply removing the grate to expose access to the filter. The hydrocarbon booms then are removed and the trash and debris can be removed from the structure. At each cleaning, new hydrocarbon booms should be installed by placing in the filter.

Maintenance Notes:

1. Bio Clean Environmental Services Inc. recommends cleaning and debris removal maintenance a minimum of four times per year, and replacement of hydrocarbon booms a minimum of twice per year.
2. Following maintenance and/or inspection, the maintenance operator shall prepare a maintenance/inspection record. The record shall include any maintenance activities performed, amount and description of debris collected, and condition of filter.
3. The owner shall retain the maintenance/inspection record for a minimum of five years from the date of maintenance. These records shall be made available to the governing municipality for inspection upon request at any time.
4. For maintenance and cleaning remove grate to gain access to inlet filter insert. Where possible the maintenance should be performed from the ground surface. Note: entry into an underground stormwater vault such as an inlet vault requires certification in confined space training.
5. Remove all trash, debris, organics, and sediments collected by the inlet filter insert.
6. Evaluation of the hydrocarbon boom shall be performed at each cleaning. If the boom is filled with hydrocarbons and oils it should be replaced.
7. Transport all debris, trash, organics and sediments to approved facility for disposal in accordance with local and state requirements.
8. The hydrocarbon boom is classified as hazardous material and will have to be picked up and disposed of as hazardous waste. Hazardous material can only be handled by a certified hazardous waste trained person (minimum 24-hour hazwoper).



P O Box 869, Oceanside, CA 92049
(760) 433-7640 Fax (760) 433-3176
www.biocleanenvironmental.net