

STORMEXX CLEAN CATCH BASIN FILTER

specification drawing

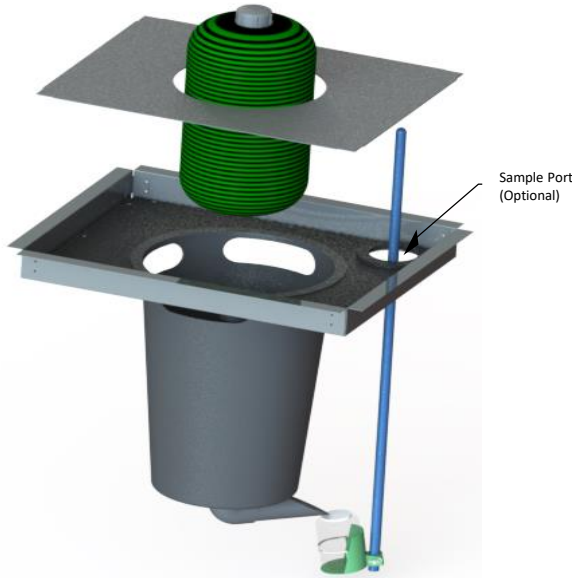


Figure 1: Rendered StormExx Filter

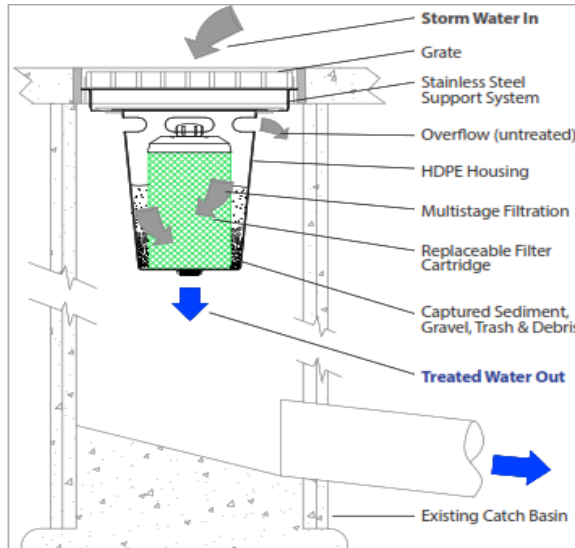


Figure 2: StormExx Filter Detailed Profile

Pollutant Group	Pollutant	Filter Blend	Removal Rate Column Test	Removal Rate Full Scale Test
Nutrients	Ammonium Nitrogen	Advanced	41%	-
	TKN (Nitrogen)	Advanced	22%	-
	Soluble Phosphorus	Advanced	94%	87%
Bacteria	E. coli	Advanced	93%	-
	Fecal coliforms	Advanced	71%	-
	Total coliforms	Advanced	79%	-
Heavy Metals	Cadmium	Industrial	99%	-
	Chromium	Industrial	24%	-
	Copper	Industrial	75%	52%
	Nickel	Industrial	58%	-
	Lead	Industrial	60%	-
	Zinc	Industrial	58%	40%
	Selenium	Industrial	25%	-
Hydrocarbons	Motor Oil	Both	99%	-
	TSS	Both	90%	46%
General	Turbidity	Both	76%	-
	PH neutralizer	Both	Yes	-

VALUES ARE TOTAL EFFICIENCY REMOVAL PERCENTAGE OF TYPICAL STANDARD INPUT STORMWATER CONCENTRATIONS. FOR COLUMN TEST METHODOLOGY, SEE TECH LINK RESEARCH SUMMARY #3338. FOR FULL SCALE TEST METHODOLOGY, SEE TECH LINK RESEARCH SUMMARY #3340 at FILTREXX.COM or INLETFILTERS.COM.

Column Testing Methods and Methodology

Each experiment evaluated a single pollutant, based on concentrations typical to urban, industrial, and municipal storm water runoff, with 10 sequential events spaced a minimum of 24 hours between events. The experiment used vertically mounted columns made from 6" Dia, 48" high clear PVC tubes. Each column was filled with StormExx Clean catch basin filter cartridge media added manually with no mechanical compaction.

Full Scale Testing Methods and Methodology

Each experiment evaluated a single pollutant, based on concentrations typical to urban, industrial, and municipal storm water runoff. The experiment used a full scale experimental design utilizing a 20 minute duration to simulate first flush storm water design at a flow rate of 4 gal/min. Effluent samples were collected using discrete, interval grab samples every 5 minutes until the end of the event period.

StormExx Size / Description			Bucket Storage Capacity (ft ³)	Bucket Depth	Flow Rating (GPM)	Bypass Ratings (GPM)	ADS P/N for Advanced Blend System	ADS P/N for Industrial Blend System	Advanced Blend Replacement Cartridge	Industrial Blend Replacement Cartridge
Size	Depth	Description								
Medium	Std.	Single Bucket for Inlet Opening Perimeters < 96"	2	23"	40	500	62MSX200A	62MSX200W	62SX200AFLTR	62SX200WFLTR
Medium	Short	Single Bucket for Inlet Opening Perimeters < 96"	1.2	12"	15	500	62MSX100A	62MSX100W	62SX100AFLTR	62SX100WFLTR
Large	Std.	Single Bucket for Inlet Opening Perimeters 96" - 120"	2	23"	40	500	62LSX200A	62LSX200W	62SX200AFLTR	62SX200WFLTR
Large	Short	Single (Short) Bucket for Inlet Opening Perimeters 96" - 120"	1.2	12"	15	500	62LSX100A	62LSX100W	62SX100AFLTR	62SX100WFLTR
Extra-Large	Std.	Double Bucket for Opening Perimeters > 120"	4	23"	80	1000	62XLSX200A	62XLSX200W	62SX200AFLTR	62SX200WFLTR
Extra-Large	Short	Double Bucket for Opening Perimeters > 120"	2.4	12"	30	1000	62XLSX100A	62XLSX100W	62SX100AFLTR	62SX100WFLTR

Installation Instructions

1. Remove grate from the drainage structure and clean stone and dirt from grate support ledges.
2. Lower the StormExx tray through the clear opening such that the hangers rest firmly on the ledges.
3. Lower the StormExx bucket-cartridge assembly into the tray opening and lay the plastic diverter cover sheet on top.
4. Replace the grate and confirm it is not elevated more than 1/8", the thickness of the steel hangers.

Inspection and Maintenance Guidelines

1. Inspection should occur before and after any rain event >½".
2. Post construction and industrial site inspections should occur a minimum of 4 times per year.
3. Empty the bucket if more than half filled with sediment and debris, and dispose of sediment or debris as directed by the Engineer or Maintenance contract.
4. Remove caked on silt or sediment from the surface of the cartridge to ensure water is draining properly.
5. Replace cartridges if standing water is in the bucket, or a minimum of twice annually depending on rainfall and pollutant concentration levels.

All StormExx Catch Basin Filters are Manufactured and Distributed by ADS-FLEXSTORM

