

GO-FILTER[®]

MOBILE TREATMENT SYSTEM



- ▶ The Go-Filter[™] is a mobile water quality device designed to reduce turbidity levels in discharge waters at construction sites or industrial facilities.
- ▶ Turbidity reduction is accomplished without the use of environmentally harmful flocculants or chemicals.
- ▶ Filtered water is discharged directly to a receiving water body. Both the filtration processes and pumps are powered by a single connection using electricity or generator.

INNOVATING GOOD CLEAN WATER

Mode of Operation

The unique Go-Filter™ design incorporates a self-cleaning inline gross pollutant separator and strainer for pretreatment followed by two cross-flow (centrifugal) sand filters fitted with PathShield™ media for primary treatment. This radial cross-flow design traps particles at the surface of the media bed, requiring 50% less backwash water than traditional filters for removal of trapped material.

Step 1. Water Supply and Flow Rate

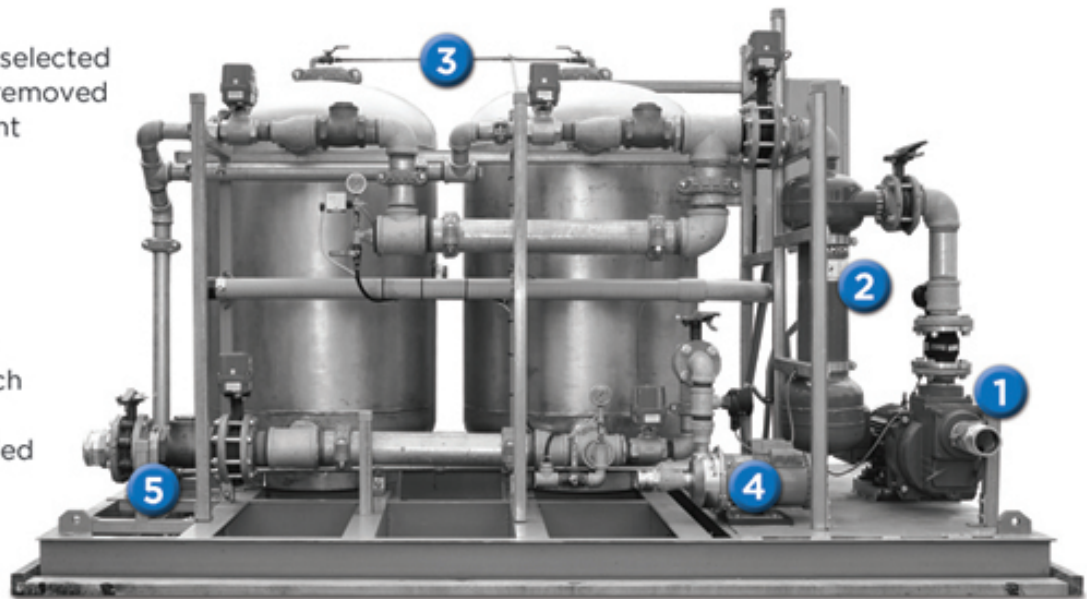
A mounted, self-priming trash pump conveys captured stormwater runoff from an adjacent collection pond or storage vessel at a flow rate up to 250 gallons per minute (gpm, or 16 liters per second, L/s).

Step 2. Pretreatment

Pretreatment is accomplished at the selected flow rate when coarse materials are removed from the treatment flow by a pollutant separator and strainer.

Step 3. Primary Treatment

Pretreated water continues at the selected flow rate to two cross-flow sand filters configured in parallel. Each filter consists of a 36-inch (91 cm) diameter stainless steel, ASME-certified vessel. The filtration assembly also includes an automated control panel and associated switches, valves, strainers and tubing. Both the filtration assembly and trash pump are powered by a single connection using electricity or a generator.



Step 4. Backwash

Both cross-flow filters are self-cleaning through the use of automatic backwashing cycles. Filter backwashing utilizes process water without the need for a dedicated water storage vessel. Backwash cycles are triggered automatically by pressure differentials resulting from particle accumulation within the filters and have typical durations of four to eight minutes.

Step 5. Discharge

Post-filtration (treated) water exits the filters through a flexible hose at the same flow rate of the trash pump. The discharge hose runs from the filter assembly to a designated discharge point. No additional treatment is necessary once water is discharged from the system.

AquaShield™

WATER TREATMENT SOLUTIONS

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