

Raintank Maintenance

With adequate pre-treatment of storm water before it enters the RainTank, heavy sediments, trash, and other debris will not enter the system. Therefore, most maintenance efforts should be directed at the pretreatment structures to ensure they are functioning properly.

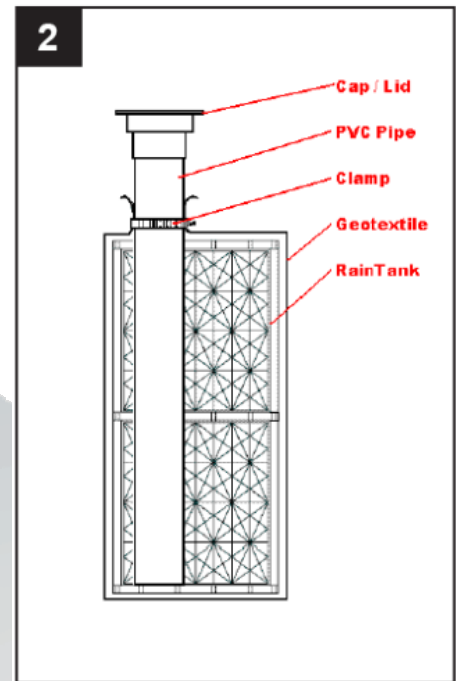
To monitor the accumulation of fine sediments that may enter the detention/retention area, RainTank systems may include a monitoring well, flush port, or both (see image 2).

Monitoring Wells

Typically made from perforated 6" PVC Pipe that runs from the bottom of the RainTank up to ground level, these are typically used to visually inspect the system and take simple measurements to gauge the depth of accumulated sediments (see image 1).

Flush Ports

Running from the bottom of the RainTank up to ground level, flush ports are made from solid PVC Pipe with notches cut into the bottom. As water is pumped into the port the notches will direct water down to the bottom of the system to create turbulence, thereby re-suspending accumulated sediments. After pumping water into the tanks, flushing is completed by vacuuming sediment laden water out of the system either through the inlet structure or through the flush port. The diameter of the flush port is determined by a number of factors including the rate at which water will be pumped into the system, the number of flush ports incorporated, and the possible requirement of vacuuming through the port. Experience has shown that an 18" port is more than adequate for virtually any required use, with 6" – 12" ports more common when vacuuming will be performed at the inlet structure.



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Installing the Maintenance System

To install the PCV Pipe, the RainTank can be easily cut with a reciprocating saw (see image 3). Whenever possible cut between the interior baffles of the Tank. Both types of penetrations of the RainTank system should be capped at the surface. In landscaped areas, this may be accomplished with a simple pipe cap or plastic valve box (see image 4 lower inset). In paved areas, metal lids are more appropriate (see image 4).



Maintenance Intervals

Maintenance Schedules for the RainTank System are a function of the contributing area and the type of pretreatment specified. A standard maintenance schedule may include quarterly inspections through the first year of use, with yearly inspections thereafter. Flushing should be performed if sediment should reach a predetermined depth or volume of the storage capacity which reduces performance of the system to unacceptable levels.



Availability

All system components, including caps, lids, and valve boxes are available from Construction EcoServices. Contact your local sales representative or our Sales Office at 832.456.1000 for assistance.



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