

Typical Commercial Application

Drawing for illustration purposes only.



A Rainwater is collected on the roof.

B The harvested rainwater is conveyed through the roof drains and piping to a single point of discharge.



15 1/4" DIA.,
Siphonic Roof Drain
Fig. #1005T Male Thread Outlet
1005Y No-Hub Outlet
Page 8

C At the point of discharge, the rainwater is transported through a vortex filter that removes large and fine debris.



Vortex Rainwater Fine Filter for Above or Below Grade Application
Fig. #RH9521-12
Page 13



Smoothing Inlet
Fig. #RH9530SI
Page 14

G The extracted rainwater can be used for toilets and urinals, irrigation, mechanical systems, laundries or other non-potable uses.

D From the filter, the collected water enters the storage tank through the smoothing inlet.

Water quality is maintained by removing the organic matter and by the action of incoming water which introduces oxygen. Water that is kept aerobic in this way does not become foul smelling, even when stored for long periods.

E The overflow/backwater device in the tank is designed to skim floating particles from the surface of the water when the storage unit overflows. (By Others)

THE RAINWATER RE-USE PROCESS

How It Works In A Commercial Application

Commercial applications typically have a high pay back due to the higher water volume gathering capability of large roof surfaces and the demand by commercial users for water. Illustrated above is an example of how a rainwater harvesting system could be used in a commercial application.

NOTE: During low rainfall events, an alternative make-up water source such as the city or county water system is required to supply the building's water needs. The appropriate backflow preventer assemblies, per the local jurisdiction, are required for this application.

Float Switches



Fig. #RH9542FSO – Dry Run Protection, Normally Open (N/O)
Page 25



Fig. #RH9542FSC – Back-up Water Feed, Normally Closed (N/C)
Page 25

F



Storage Tank Floating Filter and Hose
Fig. #RH9532C
Page 14

Harvested water is extracted from the cleanest part of the tank, just below the surface of the water, using a floating filter and pump.

Pumps
(By Others)

Below Grade Storage Tank
(By Others)