

BECAUSE IT'S ONLY WASTE WATER IF YOU WASTE IT!



Consider This...

Although 75% of the Earth's surface is covered by water, only 3% is suitable for human consumption. And, of that 3%, most is either locked in polar ice caps and glaciers or hidden underground beyond the reach of commercial technologies. A little less than 1% of our water is found in lakes, rivers, and approachable underground aquifers. In short, 'water' is quickly becoming the commodity of the 21st century. More importantly, it is time to start utilizing the forgotten natural resource—rainwater.

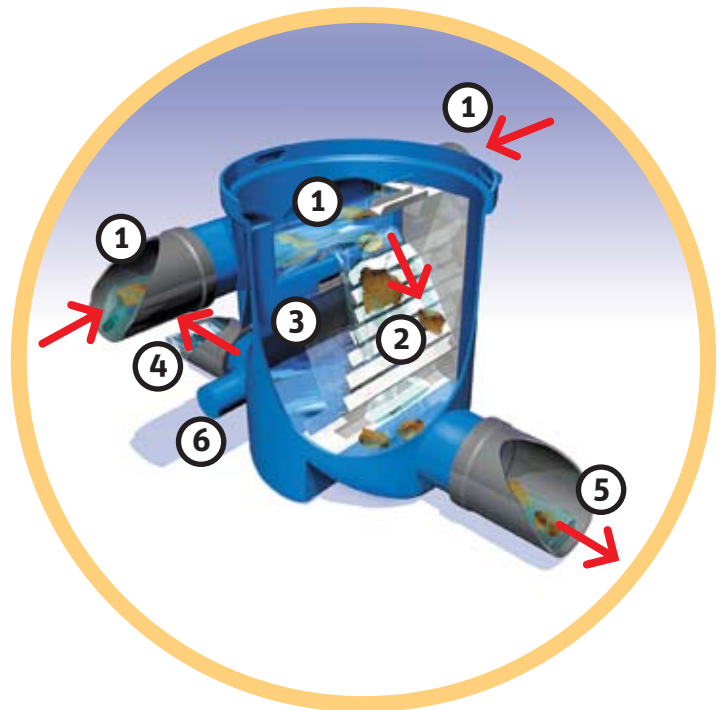
With as little as 10% of daily consumption requiring drinking water level quality, why not let Mother Nature provide 90% of your water needs? With good planning and the right components, you can have a nearly maintenance-free rainwater system suitable for most household and business needs.

The RainKeeper™ Utilization System makes rainwater harvesting easy and affordable. See the reverse side to read just how easy it is.

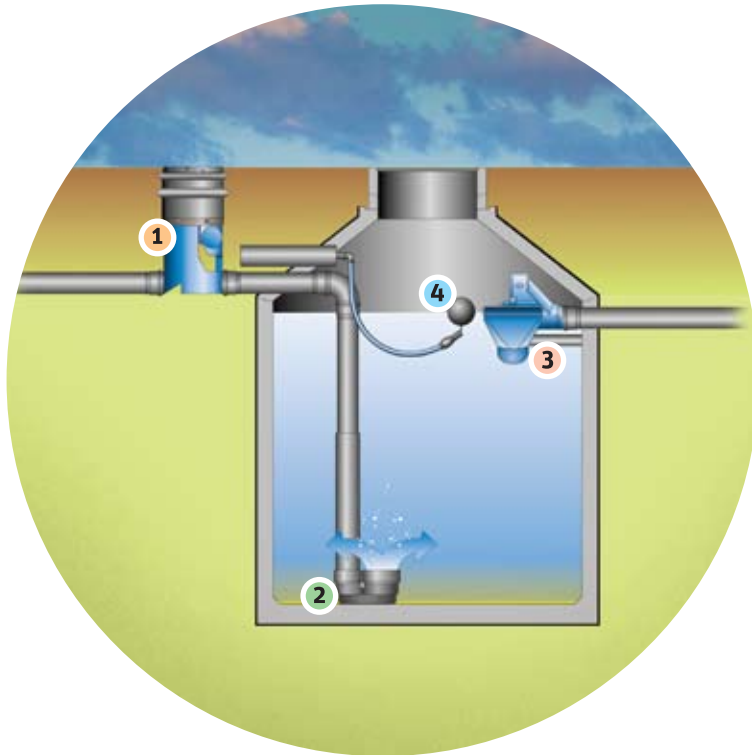
The Self-Cleaning Filter: Innovation By Design

The RainKeeper Filtration System is extremely reliable and efficient due to its double stainless steel filter featuring a cascade pre-filter that removes the larger debris and a secondary 0.55mm mesh filter for removing fine particles.

- ① As rainwater arrives, it collects behind the filter lip before overflowing on to the cascade filter, insuring an even distribution of flow across the entire width of the filter cascade.
- ② Larger debris is removed by the cascade filter and washed away with a small amount of the rainwater.
- ③ Pre-filtered water falls through the cascade and flows through a secondary mesh filter removing the finer particles. The special design of the filter mesh makes it self-cleaning with minimal maintenance required.
- ④ Cleaned water flows to the storage tank.
- ⑤ Dirty water empties into storm sewer or infiltration area.
- ⑥ Domestic top-off inlet.



The **RainKeeper Utilization System** makes rainwater harvesting easy and affordable. There's no pea gravel or sand to measure or clean—just four easy steps toward a sustainable future.



1 Step One: Filtration

Rainwater from the roof flows through the filter where leaves, dirt and debris are separated, allowing the 'clean' water into the storage tank. Pollutants are filtered out continually and carried away with a small amount of rainwater to the storm sewer or an infiltration area. All Rainkeeper filters incorporate stainless steel components, affording long life and easy maintenance. Considering the various flow rates and connection possibilities, installation options are almost limitless.

2 Step Two: Filling the Tank

Water leaving the filter enters the storage tank through the calmed inlet. The inlet prevents the disturbance and re-suspension of fine sediments that gather on the bottom of the tank. Another important function of the inlet is the introduction of oxygen into the lower layers of the tank which maintains a fresh supply of water while preventing anaerobic conditions from forming.

3 Step Three: Tank Cleaning/Overflow

Once a maximum level is reached in the tank, the innovative overflow siphon, with its skimmer effect, removes particles lighter than water (e.g. flower pollen) that float slowly to the water surface. Removing this floating layer of surface pollutants through regular overflow from the tank is important in order to maintain high quality water and allowance of oxygen diffusion at the water surface. The narrow slits in the overflow siphon prevent rodents from entering the tank.

4 Step Four: Using the Water

Water is extracted through the floating pump intake that is suspended just below the water surface where the cleanest water resides. An air-filled ball float suspends the filtered intake for extraction by the pump. Depending on the pump configuration—submersible or jet pump—a check valve can be added to the floating pump intake.



VOLUME FILTER



CALMED INLET



OVERFLOW SIPHON



FLOATING INLET