

# World's First Chemical Free Rainwater Harvesting System

Employing DPA Water Technology in Green Mark Property  
Development Projects

## Embracing Green Technologies

There are various advantages in promoting green technologies that incorporates best practices in environmental design and performance in property development. It can lead to lower water and energy bills. The corporate image as well as leasing and resale value of buildings can possibly be enhanced. There will also be improvements of indoor environmental quality for a healthy and productive residential and work life.

## Key Concerns of Rain Water Harvesting

Harvesting rainwater is an important part of determining the environmental friendliness of the building. Typically, rainwater is collected in a tank when it flows into a collection pipe through a drainage outlet at the roof level. However, when rainwater stays stagnant for too long, undesirable effects would occur, for instance:

- Algae buildup
- Bacteria growth
- Stench

## Employing DPA System in Rain Water Harvesting

SIF Technologies' proprietary technology, DPA system is developed based on the principles of Cavitation and is totally chemical free.

A DPA treatment unit is installed in a water circulation system attached to the water tank. A circulation pump that is powered by a solar energy system and interlocked to timer switch draws stagnant water from the water tank.

The system passes the water through a DPA treatment unit and pumps it back into the tank. The treated rain water can be successfully tapped for various residential purposes, such as:

- Irrigating rooftop gardens and plants
- Cleaning common areas
- Possible portable use

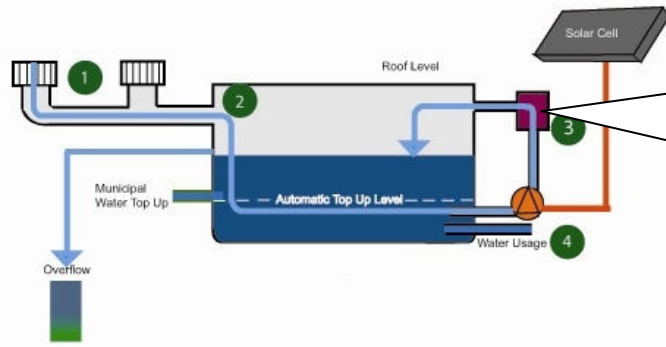


Figure 1: A simple illustration of a rainwater harvesting system

### DPA System Treatment Unit



### Benefits of Using DPA System

In previous projects SIF Technologies has conducted, substantial improvement in water quality has been observed with the commissioning of the DPA System:

- Inhibits bacteria growth
- Increase in dissolved oxygen
- Reduction in excessive algae growth
- Containment of stench

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### Moving Forward with Our Technology

Using DPA technology, SIF is implementing the world's first chemical free rainwater harvesting system in a platinum award green mark property development project. Moving forward, we will be going into the second stage of the project where treated rainwater from the rainwater harvesting system could possibly be used for drinking purposes. Contact us today to find out the solutions we can provide for your green mark property development project.