

## Rainwater collection made easy with RainCAP

### The situation

Rainwater harvesting is increasingly popular in tropical countries for obvious reasons. The rainwater can be an excellent source for good quality water, it is simple and low cost solution. In regions suffering from periods of drought, rainwater collection makes the difference.



It pays off to collect free rainwater, store it in large volumes during the monsoon/rain period and consume it once the drought has set in again.

Although rainwater harvesting seems simple, in practice it is not. Manmade ponds and large concrete tanks in combination with proper filtering are needed to deliver good quality drinking water.

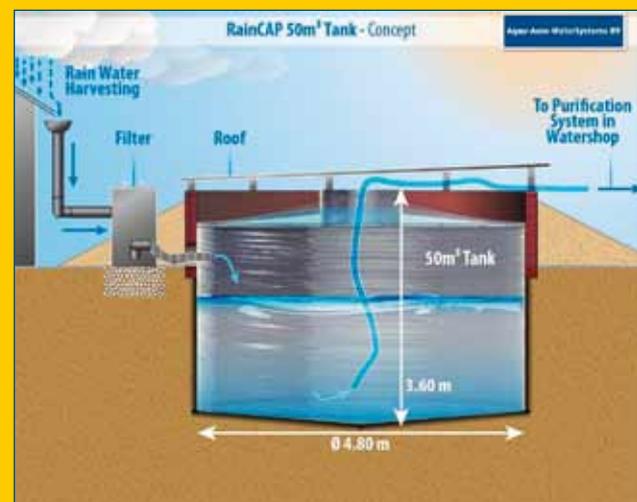


Unfortunately ponds easily pollute and concrete tanks often are made of poor materials and with little craftsmanship. After some time the tanks crack open, start leaking and the quality of the water is diminished. People lose their faith in the system and abandon it.

### The solution

To solve these problems we developed the Rain Collection And Purification system (RainCAP). Rain collected in a pond or from a roof is filtered and routed into a foil tank placed in a large hole in the ground. The tank is made of sturdy plastic sheet material. It is flexible and not influenced by settlements in the ground normally taking place.

The foil tanks can store up to 50 m<sup>3</sup> of water each, keeping it in good condition for many months to come. As soon as the collected water is needed for consumption, the water is pumped up, purified when needed and distributed.





## Two RainCap systems available

Two different sizes RainCap tanks are available. A 15 m<sup>3</sup> foil tank and a 50 m<sup>3</sup> tank system. Both systems are delivered with similar type of filtering and purification methods. The 15 m<sup>3</sup> tank can serve up to 30 people assuming a consumption of 2 litres per person per day during 8 months. The 50 m<sup>3</sup> tank serves up to 200 people assuming a consumption of 2 litres per day for the duration of 4 months.

## The RainCAP WaterShop

The RainCAP structure can be operated and maintained by a local entrepreneur earning a salary with the sales of the delivered water. As a result the community becomes independent of external aid for water support.

## Technical background information

The foil tanks are made of strong durable plastics. They are easy to transport, install, clean and maintain. The system is best applied in tropical regions displaying moderate to high seasonal rainfall. It needs a relative sturdy sand/ground

condition in order to prevent walls from collapsing. The **lifetime** of the plastic used is estimated at 10-15 years.

Two tank systems are offered: a foil tank capable of collecting 15 m<sup>3</sup> tank rainwater: diameter 3,2 meter extending 2,5 meter into the ground and a 50 m<sup>3</sup> tank: diameter 4,8 ranging 3,3 meter into the ground. The tanks follow a modular design and can be easily placed next to each other and linked together.



## Interested?

Interested in the RainCAP system? Please feel free to contact Aqua-Aero WaterSystems in The Netherlands for more information:

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