



Desert Sampler

Low cost first flush sampling made easy

What is the Desert Sampler?

The desert sampler is a self-contained vacuum water sampling system. The system can be installed insitu and left dormant for up to a year. When a sampling event occurs the sampler is triggered and a sample is automatically collected using the battery powered vacuum pump into the sample collection bottle. The sample is now ready for collection and analysis.

Three good reasons the Desert Sampler is used for first flush sampling

When collecting the sample at the rain or discharge event is impractical.

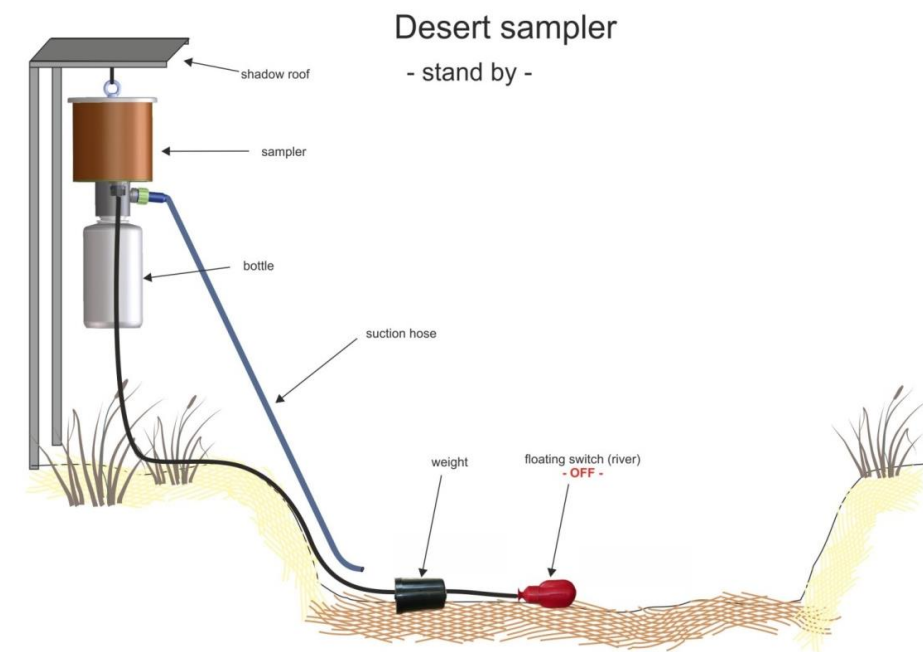
- **Lightning in storm events** around plant and water bodies mean sample collection can be dangerous.
- **Reduce your risk during flooding** and high current events, no more need for multiple samplers or risk assessments.
- During these events **other activities can take priority**, be confident in the knowledge that the sample has been collected and can be retrieved at a later stage.



How it works

The sampler is installed aside of the water body. The cable with the float switch as well as the suction hose is placed on the bottom. When water flows (or a certain level is reached) the level switch will raise and the vacuum pump starts sampling. As soon as the sample bottle is full a level switch will switch off the pump.

While the sampler is in Standby Mode there is no power consumption, therefore the sampler is able to wait for any rain or discharge event for the life of the batteries. This is normally over a year so replacing batteries is either performed at the time of sample collection or annually.



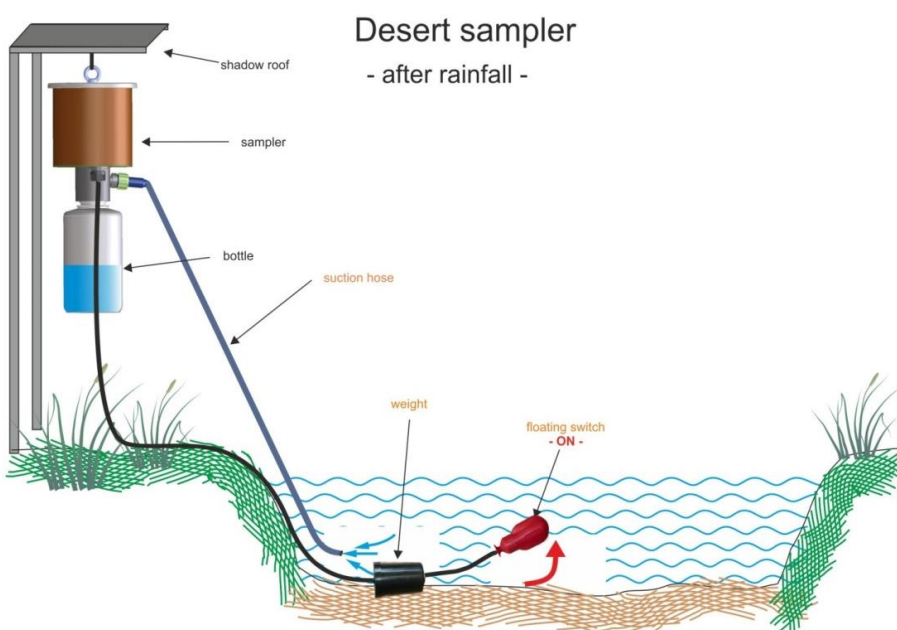
Key Advantages

The desert sampler is a low cost alternative to typical manual sampling or expensive mechanical automatic sampling systems.

- Low risk collection
- Sample only on flow event
- Greater quality of sample
- Compact design
- Optional SMS sampling event notification

What's in the kit

- Nalgene 4L bottle
- Floating switch 5m
- Sample hose 5m
- Housing containing:
 - Full bottle shutoff switch
 - Vacuum pump
 - Battery Pack (8x AA)
 - Connectors and mount



Specifications

Diameter	20 cm
Height	60 cm
Weight	3.5 kg
Battery life (standby)	>12 months
Batteries	8x 1.5V AA
Sample volume	4L
Max suction height	6.5m