

# Rainmaker Simulator Set-up



The upper rainbar is the largest of the two rainbars and it sits on top of the apparatus.

The side of the rainbar with multiple holes faces downward into the rainmaker simulator.

Upper rainbar installed with threaded elbow attached and a rubber stopper placed in the empty hole not filled by the lower rainbar.



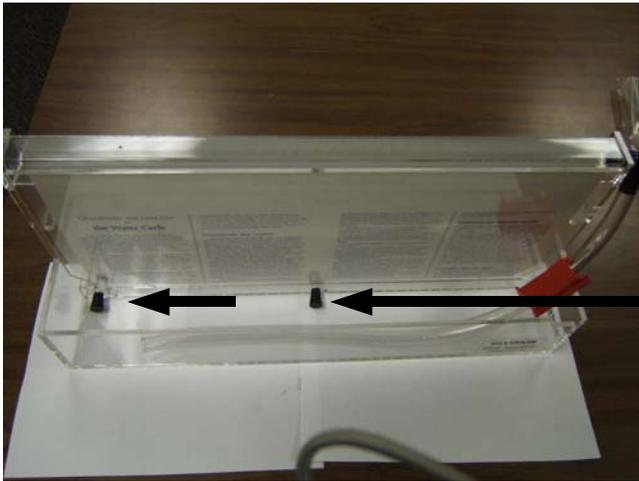
Lower rainbar installed with threaded elbow attached. The lower rainbar sits inside the rainmaker. The upper rainbar does not need to be installed.

Lower Rainbar

Tubing attached to threaded elbow.

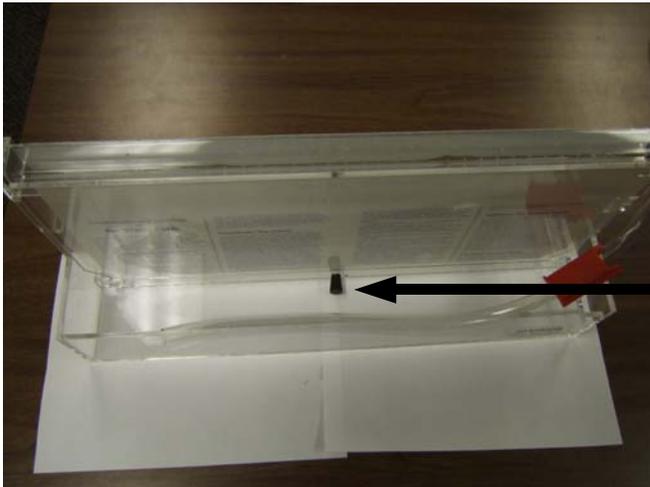
Tightening or releasing the red tube clamp controls the rate of water flow into the rainmaker simulator.





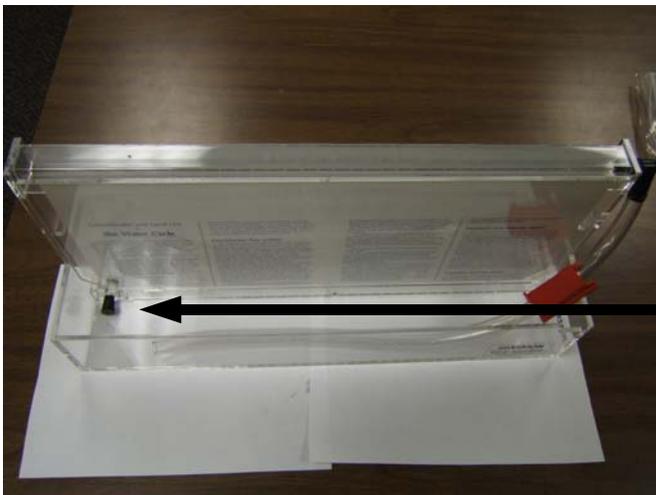
Rubber stoppers, placed in both reservoir holes 1 and 2, circulates water only through the rainmaker simulator. In this mode, there is no connection between the rainmaker and the ground water simulator.

Rubber Stoppers



Placing a rubber stopper only in hole 2 will allow water to flow from the rainmaker into the ground water simulator's recharge area.

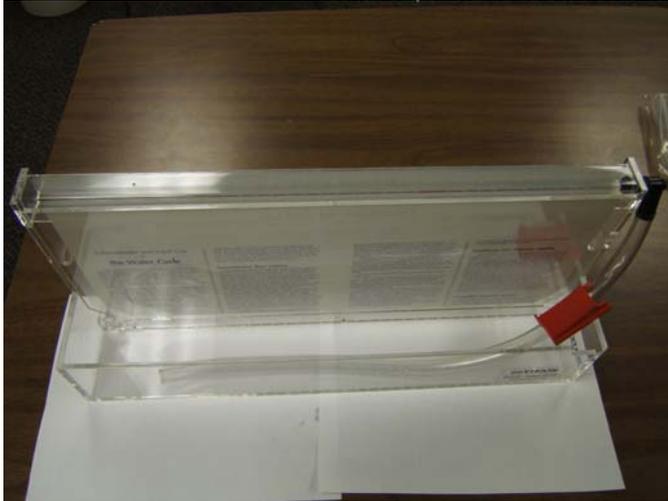
Rubber Stopper



Placing a rubber stopper only in hole 1 will allow the rainmaker simulator to rain over the entire top surface of the ground water simulator.

This mode shows both ground water recharge and surface water runoff.

Rubber Stopper



Not placing any stoppers in either of the rainmaker's reservoir holes will simulate flood conditions within the ground water simulator.

Because of built-in overflow capabilities, neither the ground water simulator or rainmaker will overflow the apparatus.

### Installing the Rainmaker's Submersible Pump

1. The rainmaker's submersible pump can be attached to the inside of the rainmaker's built-in water reservoir.

**Warning!** If the stoppers are not in holes 1 and 2 then the rainmaker's reservoir will go dry and the pump will run out of water.

This pump location works when you are not planning to have the rainmaker interact with the ground water



2. The rainmaker's submersible pump can also be placed inside the ground water simulator's water reservoir.
  - This is a good setup if you want to run the ground water simulator using the recharge provided from the rainmaker.
  - **Warning!** This pump placement requires that extra water is placed in the ground water simulator reservoirs.
3. The rainmaker's manual suggests the submersible pump can be attached to the inside of the water reservoir of the non-submersible pump, used to support the ground water simulator.
  - These two pumps can work together to provide water to both the rainmaker and the ground water simulator.
  - **Warning!** When Kristy tested this method, the non-submersible pump could not keep up with the submersible pump, causing the reservoir for the non-submersible pump to run dry.

**Warning!** The bottom of the submersible pump must be submersed in water before it is plugged in. Without water, the pump will burn up.

It will take a minute for the pump to prime and begin sending water from the reservoir to the rainmaker's supply tube.