

ProsystemAqua's Hydroponic System has the following and simple operation.

## **1. Turning on the Hydroponic system.**

Once the controller is installed and connected to power, we proceed to program the fertilizer controllers by adjusting the set point and proportional fertilizer flow for each controller. Then we adjust the pH set point and program the pH Down (acid) or pH Up (alkaline) mode. We check that the pH and EC probes are calibrated.

## **2. Water recirculation in the collector.**

We must operate the water tank recirculation controller simultaneously with the Hydroponic System controller.

## **3. Conductivity measurement.**

The EC probe detects the conductivity present in the water and is displayed on the controller's display.

## **4. Fertilizer dosing.**

The dosing controllers for conductivity control A, B, C aspirate the fertilizers from the bottles through the aspiration filter.

## **5. Fertilizer injection.**

The controllers dose the fertilizers through the injection valves and are incorporated into the water recirculation collector.

## **6. pH measurement.**

The pH probe continuously measures the value present in the water and is displayed on the controller's display.

## **7. pH regulator dosing.**

The pH regulating controller aspirates from the pH Down or pH Up bottle and doses through the injector until reaching the programmed set point.

## **8. Activation of the irrigation controller.**

The irrigation controller can be automatically activated by a programmer once the EC and pH values are adjusted and stable.

### **OPTIONAL**

## **9. Level probe for regulating the water level in the tank.**

## **10. Fill solenoid valve, which will be activated by the Hydroponic System through the level probe.**

## **11. Flow sensor, deactivates the Hydroponic System in case of lack of water in the collector.**