

MINERAL NUTRIENTS

If mineral feeding is selected, the liquid or soluble mineral nutrient is simply added to the water in the reservoir in a controlled manner and fed via the pipework to the AQUAvalves in the module trays. From there the plants take up the water/nutrient solution as and when they require it. Feed according to nutrient producers' guidelines.

ORGANIC NUTRIENTS

We recommend the following techniques when using organics with AutoPot Watering Systems - see below for Reservoir Feeding and opposite for Pot Feeding. The arrival of AQUAvalve5 has revolutionized the way in which organics can be fed through AutoPot Watering Systems. For the first time, we can recommend almost constant feeding of liquid organic nutrients, additives, and boosters in solution via the reservoir and pipework. It should be noted that this applies only to systems equipped with AQUAvalve5 and 3/8" pipe and fittings. Earlier model AQUAvalves with 1/4" pipe and fittings cannot feed liquid organics in solution via the reservoir and pipework on a constant basis. The wider apertures of fittings and pipework on AQUAvalve5 equipped systems produce vastly increased flow rates that practically eliminate potential blockages.

ORGANICS - RESERVOIR FEEDING

Supply of liquid organic feeds from the reservoir via pipework. **Only applicable to AQUAvalve5 equipped systems with 3/8" pipework and fittings.**

Uses: Employed by organic growers who wish to simplify and automate to the greatest possible degree. Ideal for confined spaces, large numbers of modules and max. automation.

Requirements: Watering system fitted with flush taps at ends of pipework runs. Reservoir to supply liquid organic feed in solution for the duration of the grow. Liquid organic feed.

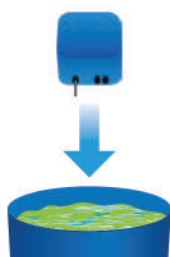
Step 1. Setting Up

A



Fill reservoir with water and liquid organic nutrient. Follow nutrient producer's directions when adding feed.

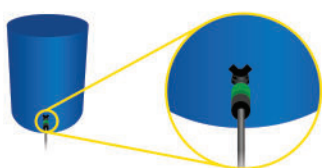
B



A water pump should be used in the reservoir to keep the solution moving. It should not be necessary to run the pump constantly. 15mins every 2hrs is ideal.

Step 2. Once the reservoir has emptied

A



A Switch the reservoir off.

B



B Disconnect the reservoir.

C



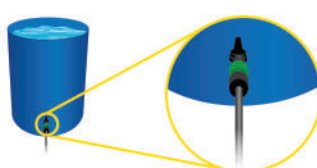
C Clean the reservoir inside. Clean the water pump and inline filter. Reconnect.

D

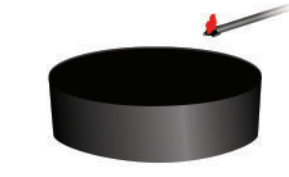


D Refill with plain water only.

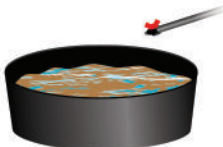
Step 3. Flush the pipework



A Switch the reservoir on.



B Place the flush taps at the ends of pipework runs into a container / safe drainage.



C Open flush taps for 30-60 secs. Allow plain water to flow out until it runs clear

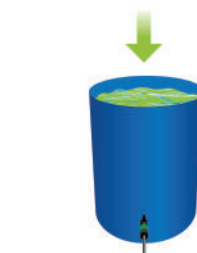


D Close flush taps. Feed plants on plain water from reservoir for 24 hours.

Step 4. 24hrs after flushing



A Top up the reservoir with water as necessary.



B Add liquid organic feed again to correct dosage. Repeat.

Those wishing to grow organically with soil-based nutrients can also do so with AutoPot Watering Systems by Pot Feeding or Tray Feeding

ORGANICS - POT FEEDING

Use organic time release tabs, organic soils and/or bacteria in the pots. Use the reservoir and pipework to supply water only during the useful lifespan of the soil-based nutrients. Then, if required, for latter stages of growth hand feed organic feeds/teas directly into the trays or employ Reservoir Feeding (see Reservoir Feeding opposite) via the reservoir and pipework. Organic soils, bacteria and/or soil-based time-release tabs may become depleted after 5-7 weeks. The lifespan of soil or soil-based nutrients will depend on the type of plants being grown and the size of the pot being used. Regardless, an organic liquid supplement may become necessary during the latter stages of growth.

Uses: Employed by those wishing to maximize control, customization and/or use a variety of feed types including organic time release tabs/organic soils and/or bacteria in the pots with teas or organic feeds in latter stages.

Requirements: Watering system and reservoir. Reservoir supplies only plain water for the duration of the grow unless switching to Reservoir Feeding for latter growth stages.

Organic time release tabs/organic soils and/or bacteria in the pots.

Organic teas/boosters/feeds if Hand Feeding latter growth stages.

If Reservoir Feeding in latter growth stages see **Reservoir Feeding Requirements**.

ORGANICS - TRAY FEEDING TECHNIQUE

Step 1. Potting Up and Setting Up

- When potting up use organic soils and/or add bacteria and/or organic time release tabs of your choice to the substrate. Reservoir supplies your plants with water only.

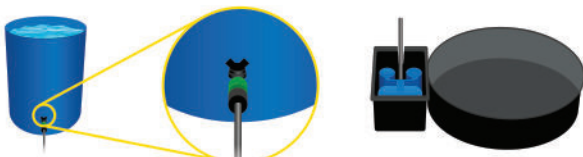


Step 2. If useful lifespan of soil-based nutrients has elapsed

- Either Reservoir Feed. See Reservoir Feeding section (overleaf) for details.
- Or Hand Feed (see below) directly into module trays

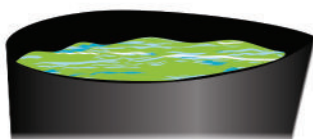
Step 3. Hand Feed organics directly into the trays - Once every 5-7 days

- Switch Reservoir off and allow module trays to run dry - approx 12hrs



Step 4. 12hrs after switching off Reservoir

- Prepare the organic solution of your choice

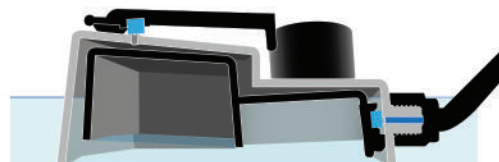


Step 5.

- Using a small watering can or jug, pour the solution in a controlled manner next to the AQUAvalve, NOT ON THE AQUAvalve



- Fill the tray to the point where the pipe enters the tray and stop
- DO NOT pour the solution into the top of the pot as you will potentially risk flooding the tray and growing area



- Leave the solution to be consumed by the plants in each tray and then repeat the process after 30 minutes

Step 6. 24hrs after feeding/once trays have run dry

- Switch Reservoir on to restore supply of water.
- Repeat process every 4-5 days as required

