



Hydro A+B

The ultimate for simplicity and performance when growing in hydroponics

Hydro A+B achieves extraordinary yields by helping solve the key issues affecting hydroponic growers such as pH stability, nutrient solubility, blockages and buildup.

- HYDRO A+B is a professional, Dutch-style two-part nutrient that is used throughout both the vegetative and flowering cycle.
- HYDRO A+B is balanced and buffered specifically for hydroponic systems and contains no unnecessary ingredients. This gives the final harvest a much cleaner taste, better flavours and enhanced aromas.
- HYDRO A+B is so simple to use. Its pH stability is over FIVE times better than other popular nutrients (requires minimal pH adjustment). There are no complex mixing procedures and it will not clog drippers.
- It has a single A+B formula for seed-to-harvest nutrition. This is less confusing and more convenient than using separate grow and bloom formulations.
- Dosage 1.5 to 3.5ml/L | Available in: 1L // 5L // 20L // 200L

TESTIMONIES

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“The plants are lush and healthy... and the weight and flavour of our fruits are second to none”

“Hydro A+B has made growing way easier for us. We live in a hard water region and the pH of our water is very high. Before Hydro A+B, we had to lower the pH daily. Now we only need to do it 2 times a week max!...the nutrient runs super clean with zero buildup in lines and drippers”

“The simplified dosing, pH buffering and ultra solubility makes Hydro A+B so much easier for our growers”

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Good system design is vital for producing consistent and reliable growth. What works best depends on factors such as plant type, water quality, maintenance requirements, set-up costs and whether you are growing indoors or outdoors.

RECIRCULATING SYSTEMS

In a recirculating system the nutrient solution is pumped from a reservoir to the plant's roots. The excess nutrient is then allowed to drain back to the same reservoir. This permits reuse of the nutrient solution until it is either depleted of useful elements or is contaminated. The nutrient solution is then discarded and replaced.

There are several types of recirculating systems in use. Popular types include Nutrient Film Technique (NFT - Fig 1.1), Flood & Drain ("Ebb & Flow" - Fig 1.2), aeroponics and satellite systems.

Advantages of recirculating systems

- Lower water and nutrient consumption.
- Relatively easy to disinfect roots and hardware.
- Regular feeding prevents localised salt build-up in the root zone and maintains uniform root zone pH and conductivity.
- Environmentally friendly - minimal potential for localised groundwater contamination.



Hydro AB runs very clean and requires minimal pH maintenance

RUN-TO-WASTE SYSTEMS

"Run-to-waste" describes those systems where the excess nutrient or "run-off" is not re-circulated. Conventional 'soil culture' is a type of run-to-waste system. Media with a high water holding capacity are used (e.g. soil, coconut fibre, Rockwool). Feeds are small and infrequent. The 'run-off' is either drained directly onto the ground or is collected (Fig 1.3 & 1.4 respectively).

Irrespective of whether the nutrient is collected or drained directly onto the ground, plain water flushes are usually needed at frequent intervals through the same plumbing. This helps minimize salt build-up in the root zone and also helps keep the feed circuit free of blockages.

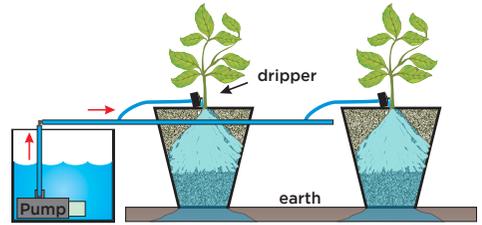


Fig 1.3 Run-to-waste system (simplified layout) where nutrient run-off drains directly onto the ground.

Advantages of run-to-waste systems

- pH and EC of the nutrient feed solution is stable.
- Plants receive fresh nutrient at each feed.
- The use of media having high water holding capacity minimizes the risk of plant death in the event of nutrient pump failure.

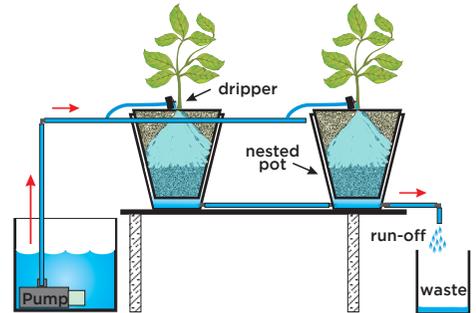


Fig 1.4 Satellite system - Run-to-waste version (simplified layout) where run-off is collected. Note these systems can also be reconfigured into a 'recirculating' mode.

- In the event of root disease outbreak, there is less risk of cross contamination between pots or trays because the nutrient is not recirculated.
- Can be an advantage for higher salinity waters. Unlike recirculating systems, salinity does not build-up in the nutrient solution.

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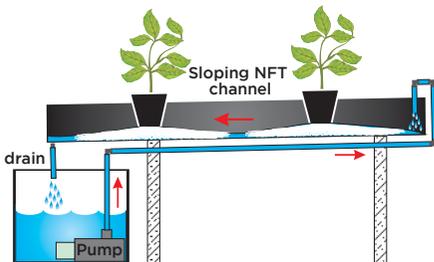


Fig 1.1 NFT system (simplified layout) is a popular type of recirculating system.

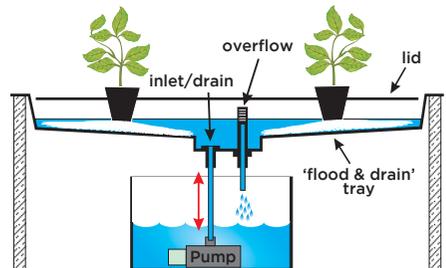


Fig 1.2 Flood & drain system (Basic layout): Diagram shows feed cycle at 'flood'.