

**PROUD
OF OUR
ROOTS**



nutriculture
GROW SYSTEMS

ABOUT NUTRICULTURE GROW SYSTEMS

We're proud of our roots and they run deep and strong.

It all started in 1976 when John Molyneux fresh from studying the effects of NFT on plant health and roots decided that he didn't want to work for 'the man'.

He decided instead to invent NFT kits that were scaled down from the huge complicated commercial systems available at the time so that growers like him could benefit from the awe-inspiring benefits of this technique that he had experienced.

The Gro-Tanks that John produced quickly became popular and word got around the country that a workshop in a sleepy Lancashire village was making kits that produced previously unheard of yields. As more and more growers boasted of their results we went from being a workshop in a sleepy Lancashire village to an international business.

Our grow systems now cover every hydroponic technique and are sold all over Europe and North America, but they are still made by us in Lancashire and we remain true to our roots.



TIMED GROW SYSTEMS

Timed Nutriculture Grow Systems give growers control.

The grower sets the feed frequency and duration. At the scheduled times nutrient solution is pumped to the roots and what the roots don't take up drains back to the reservoir to be recirculated.

The feed schedules can be altered according to the plant life-cycle to drive plants to be more productive.



CONSTANT FEED GROW SYSTEMS

Our constant feeding Grow Systems give growers superior results by providing roots with uninterrupted access to oxygen and nutrient solution without the need to set a timer.

There's no risk of providing too little or too much nutrient solution because the roots take-up what they need when they need it and what the roots don't take up drains back to the reservoir to be recirculated.



PASSIVE GROW SYSTEMS

For growers who want to improve on the results they get from a pot but don't want to move to a full-blown hydroponic kit that actively pumps nutrient solution to the roots.

These passive grow systems are great introductions to the benefits of growing hydroponically.

READY TO GET EXPERIENCED?

IT'S ALL IN THE ROOTS!

WILMA
TECHNIQUE: DRIPPER
MEDIA: ANY

READY TO GET EXPERIENCED?

Wilma needs little introduction. It's our most popular timed grow system and a great way to get started with hydroponics because it can be used with any media. Experiment with different media to see which gives you the best results, and upgrade to clay pebbles as your confidence grows.



HOW IT WORKS

Nutrient solution is dripped into the top of the pots at the set times. It works its way through the media and roots, and any excess solution drains back into the tank to be recirculated at the next feed.

The Wilma has individual pots so you can move the plants around under lights.

Options: from 4 pots up to 20 pots.
Pot sizes 6, 11, 18 and 25 litre.



Photograph by Brian Cannon.

WILMA
MULTI-PLANT TIMED GROW SYSTEM

READY TO TAKE CONTROL?

IT'S ALL IN THE ROOTS!

EBB & FLOOD
TECHNIQUE: FLOOD & DRAIN
MEDIA: PEBBLES

READY TO TAKE CONTROL?

This super-oxygenating system is the ultimate grow system for experienced growers who like to be in control and it makes maximum use of the free-draining, high air content properties of clay pebbles.

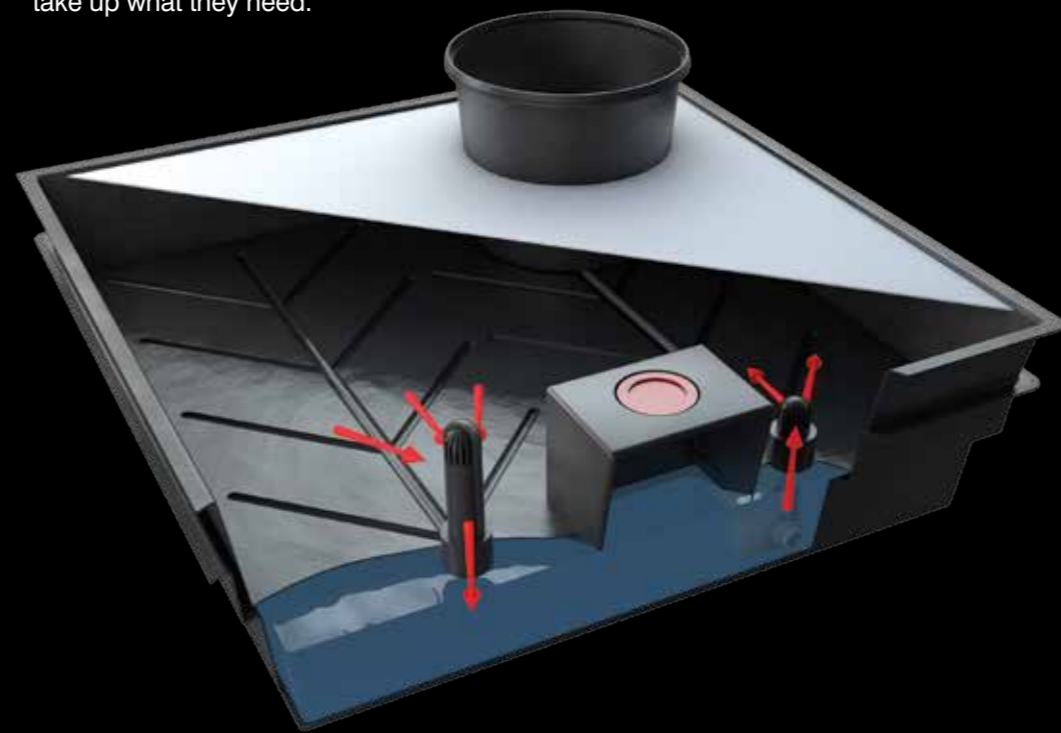
HOW IT WORKS

The Ebb & Flood periodically submerges roots at the frequency and durations set by the grower. At the set times nutrient solution rises into the root-zone pushing out stale air and allowing the roots to take up what they need.

At the end of the flood period, whatever the roots haven't taken up drains into the reservoir and fresh air is pulled into the root-zone re-oxygenating the roots. Because this reoxygenation happens several times per day the roots take up much more nutrient solution driving more productive growth.

Plants can be spaced anywhere in the growing tray – grow a few large plants or many small plants.

Available in 5 sizes from 4 plants to 15 plants.



EBB & FLOOD
MULTI-PLANT TIMED GROW SYSTEM



Photograph by Brian Cannon.

READY TO SCALE UP? IT'S ALL IN THE ROOTS!

IWS DRIPPER
TECHNIQUE: DRIPPER
MEDIA: ANY MEDIA

ARE YOU READY TO SCALE-UP?

Even large-scale experienced growers sometimes just love top-feeding and who are we to disagree? So for those growers we developed the IWS Dripper – the most finely tuned dripper system available with 28 easy to set feed duration options and thorough drainage.

The IWS Dripper can be used with coco and soil – making it exceptionally popular with growers who like the fact

that these media allow more leeway with grow-room temperature and pH and EC levels.

HOW IT WORKS

At the set times nutrient solution is pumped from the water butt and dripped into the top of the pots where it works its way through the media and drains into the catchment trays below the pots. It's then pumped back to the control unit and is pumped to waste when the float trigger is reached.

Options: 4 to 48 pots. Pot sizes 5.5 litre and 9.5 litre.



IWS DRIPPER
MODULAR TIMED GROW SYSTEM



Photograph by Brian Cannon.

READY FOR PRECISION? IT'S ALL IN THE ROOTS!

IWS FLOOD & DRAIN
TECHNIQUE: FLOOD & DRAIN
MEDIA: PEBBLES OR MIXED

READY FOR PRECISION?

This is the most popular of the IWS systems and it delivers exceptional yields. It has outstanding drainage, maximum flexibility and scalability.

The IWS Flood & Drain super-oxygenates plants at every feed resulting in incredible speed of growth and huge yields.

HOW IT WORKS

At the set times nutrient solution rises into the root-zone pushing out stale air and giving the roots access to the solution. The floats in the brain unit ensure that the same level of solution rises into every single pot.

At the end of the set flood duration whatever the roots haven't taken up drains from the pots and fresh air is pulled down into the root zone of each plant. The solution is pumped from the pots to the water butt where it mixes with the fresh solution rebalancing the pH and EC.

Options: 6 to 80 pots. Pot sizes 5.5 litre and 9.5 litre.



IWS FLOOD & DRAIN

MODULAR MULTI-PLANT TIMED GROW SYSTEM



Photograph by Brian Cannon.

READY TO COMMIT? IT'S ALL IN THE ROOTS!

FLO-GRO
SINGLE OR 2 PLANT TIMED GROW SYSTEM

FLO-GRO
TECHNIQUE: DRIPPER
MEDIA: PEBBLES OR MIXED

READY FOR COMMITMENT?

Growers who commit deserve something special. Whether you're a 1 (or 2) plant grower, or have a mother plant you want to keep in leaf for taking cuttings – the Flo-Gro is designed especially for you.

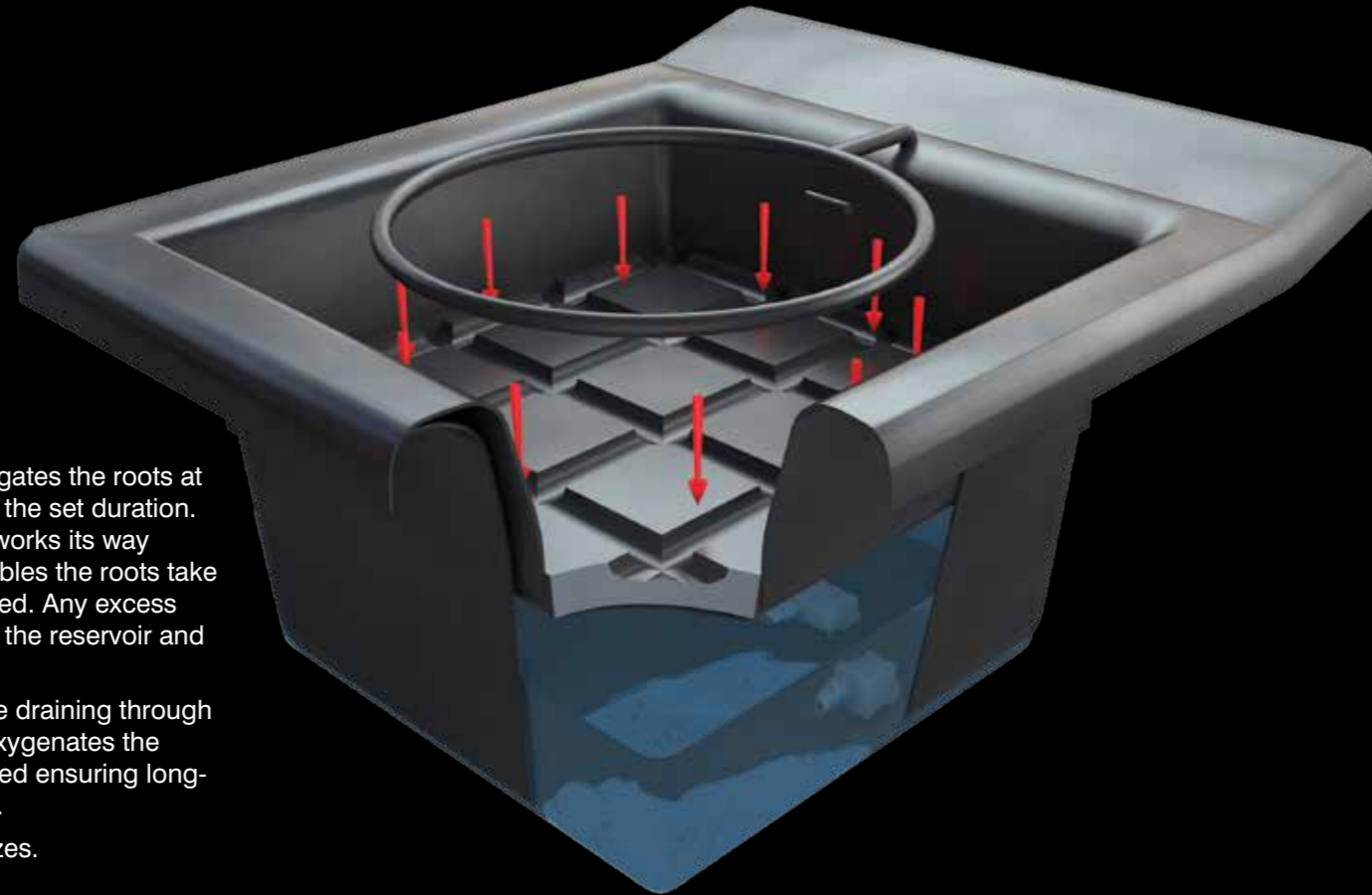
Everything about this grow system is designed around the need to keep one or two plants in perfect health long-term. The planter and reservoir depth, shape and size, and the drip-ring are all designed around a single plant.

HOW IT WORKS

The drip ring irrigates the roots at the set times for the set duration. As the solution works its way through the pebbles the roots take up what they need. Any excess drains back into the reservoir and recirculates.

The speed of the draining through the pebbles reoxygenates the roots at every feed ensuring long-term root health.

Available in 3 sizes.



Photograph by Brian Cannon.

READY FOR THE ONE THAT STARTED IT ALL? ALL?

IT'S ALL IN THE ROOTS!

GRO-TANKS AND MULTI-DUCTS
TECHNIQUE: NFT
MEDIA: ZERO

READY FOR THE ONE THAT STARTED IT ALL?

Since 1976 our Gro-Tanks and Multi-Ducts have been helping hobby growers to achieve commercial standard yields.

Not having to handle media is a huge advantage of these grow systems. Start seeds or cuttings in rockwool or soil and when the plant is root-bound just place it straight into the grow system – no more media is added.

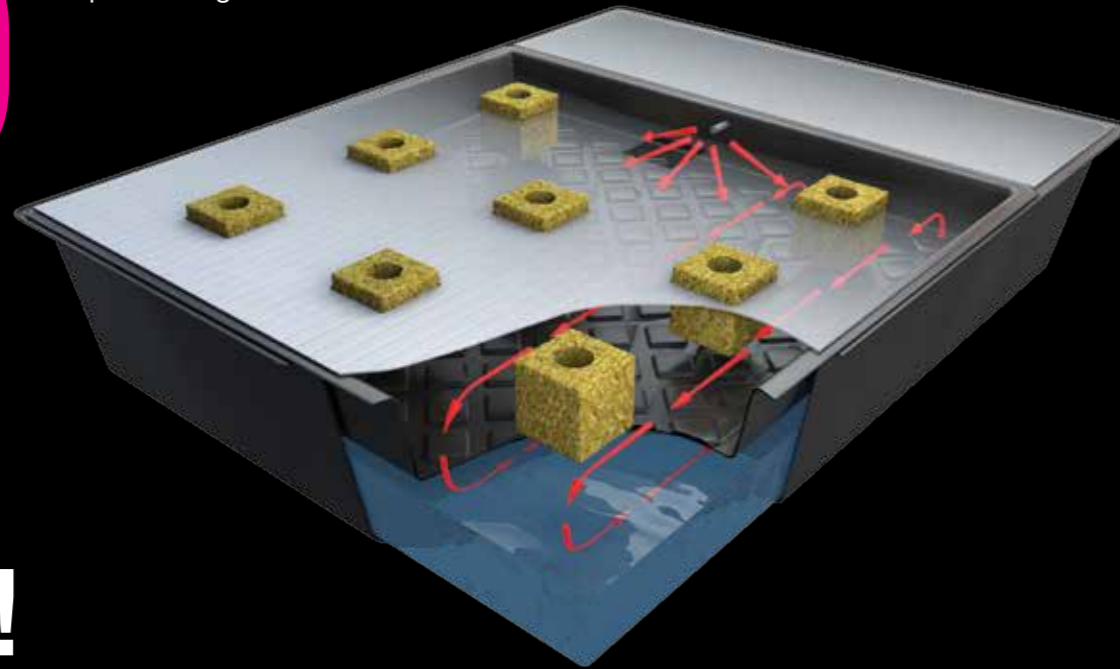
Because there's no media the roots have constant unrestricted access to nutrient solution and oxygen – a sure-fire way to maximise nutrient solution uptake and growth.

HOW IT WORKS

A constant shallow stream of nutrient solution flows over the root mass. Whatever the roots don't take-up flows back into the reservoir to be recirculated. The solution is continuously oxygenated with an air-tube and the results are incredible.

There's no going back from a Gro-Tank or Multi-Duct.

Available in 10 sizes from 3 plants to 48 plants.



Photograph by Brian Cannon.

GRO-TANKS AND MULTI-DUCTS
MULTI-PLANT CONSTANT FEED GROW SYSTEM

READY TO GROW IN AIR?

IT'S ALL IN THE ROOTS!

AMAZON
TECHNIQUE: AEROPONICS
MEDIA: ZERO

ARE YOU READY TO GROW IN AIR?

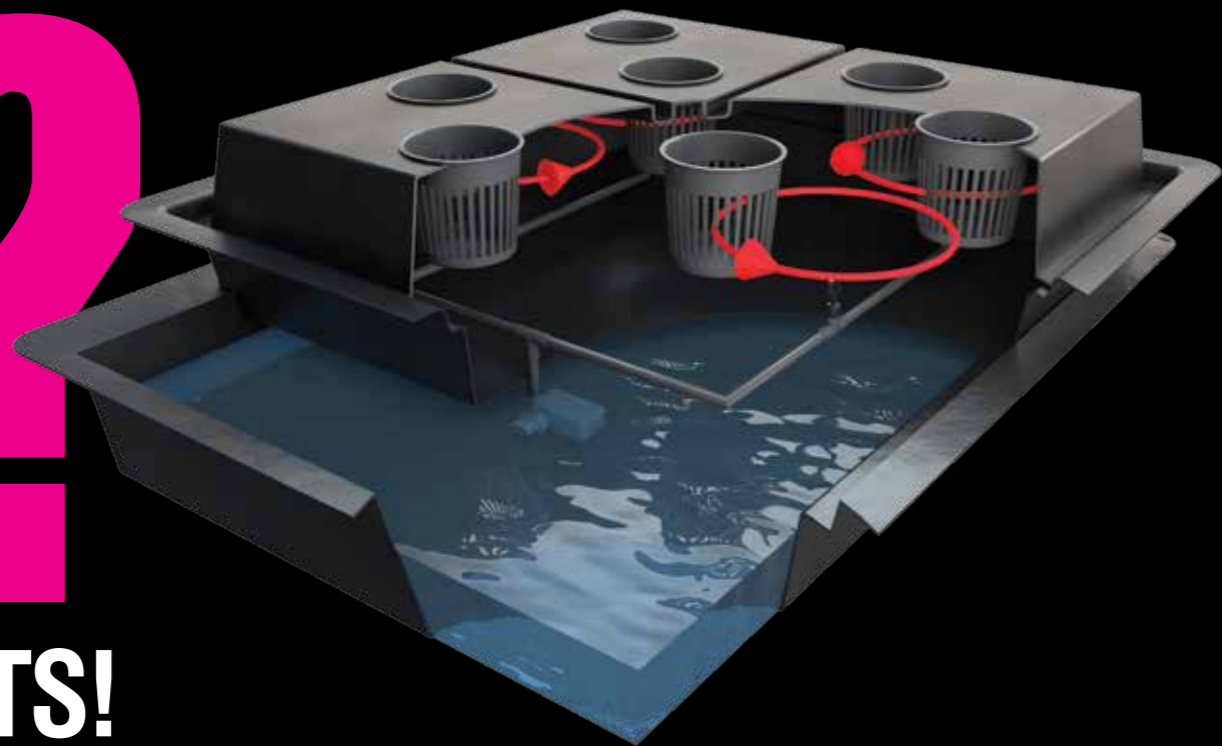
The ultimate grow system with the biggest yields and fastest growth. We produced 7ft of growth in 5 weeks!

Very little media is used with this grow system. Propagate aeroponically in an Xstream propagator or propagate in a coir pellet, either way just transplant straight to the Amazon with a handful of pebbles when the plant is ready.

HOW IT WORKS

The plants are suspended in the Amazon's misting chamber and nutrient solution is constantly sprayed around the roots. There's always a perfect balance of nutrient solution and oxygen around the roots so they achieve optimum nutrient solution uptake.

Available in 2 sizes from 4 plants to 32 plants.



Photograph by Brian Cannon.

AMAZON
MULTI-PLANT CONSTANT FEED GROW SYSTEM

READY TO CREATE WAVES? IT'S ALL IN THE ROOTS!



IWS DWC
TECHNIQUE: DEEP WATER
CULTURE
MEDIA: PEBBLES

READY TO CREATE WAVES?

The root growth is exceptional in this deep water culture system.

Every pot in the IWS DWC contains an air stone which creates a constant stream of bubbles in the nutrient solution. The roots hang down in this oxygen-rich solution where they can access everything they need 24/7.

The IWS DWC is compatible with chillers so even growers who struggle to control the temperature in their growing environment can benefit from the DWC.

HOW IT WORKS

The plants sit in baskets with their roots suspended in the pots. An air stone in each of the pots creates a stream of bubbles and the roots take-up what they need, when they need it.

The nutrient solution constantly circulates between the pots and the brain unit, keeping every pot topped up with the correct amount of solution and maintaining balanced nutrient levels, pH and EC. Floats in the brain unit determine when the minimum water level has been reached and trigger a refill from the water butt.

Options: 4 to 24 pots.

Photograph by Brian Cannon.



IWS DEEP WATER CULTURE
MODULAR UNTIMED GROW SYSTEM

READY TO SUBMERGE? IT'S ALL IN THE ROOTS!

OXYPOT
TECHNIQUE: DEEP WATER CULTURE
MEDIA: PEBBLES

Rarely is something so effective so simple to use. Deep Water Culture (DWC) has quickly become popular because there's no timer, very little media and the root growth is exceptional.

The single plant Oxypot and 2 plant Oxypot XL produce phenomenal results in small spaces and use very little media – just a handful of clay pebbles.

Our Oxypots have some great features that are proving popular with growers, the emptying tube makes it easy to check the solution level and to complete solution changes, the removable mesh basket enables growers to turn the plant

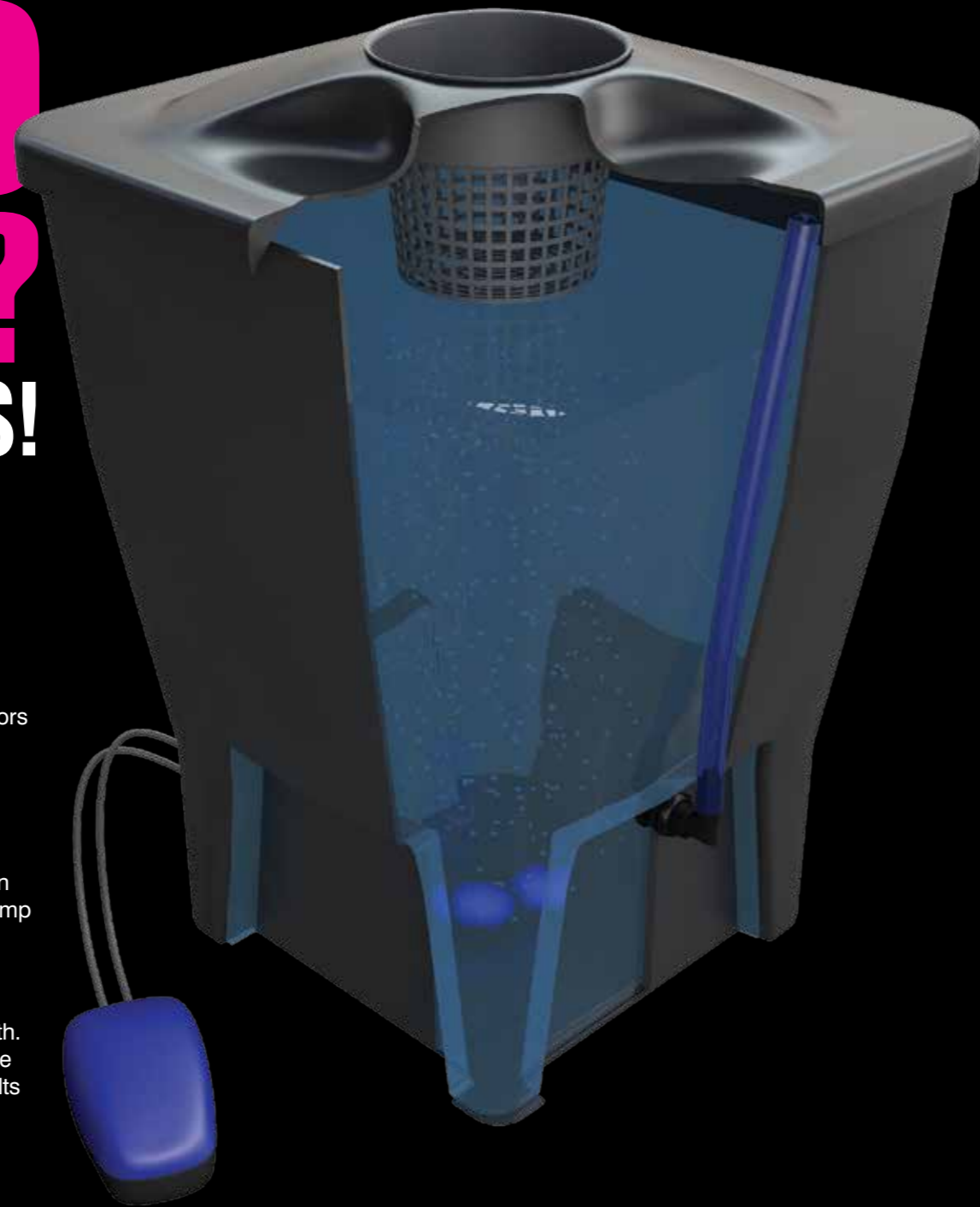
for even light exposure and the locators keep the air pump firmly in place.

HOW IT WORKS

Plants are placed in the Oxypot mesh basket and the roots are suspended in the growing chamber where an air pump constantly oxygenates the solution.

The roots have constant access to nutrient solution in this oxygen rich environment which leads to fast growth. Our Oxypots are very popular because they're incredibly simple and the results are fantastic.

Available in 2 sizes for 1 or 2 plants.



Photograph by Brian Cannon.

OXYPOT
SINGLE OR 2 PLANT UNTIMED GROW SYSTEM

READY TO SIMPLIFY? IT'S ALL IN THE ROOTS!



QUADGROW
TECHNIQUE: WICK
MEDIA: SOIL

The best performing grow system that doesn't require a power supply. Growers who want to stick with pots and coco, but want better results and less maintenance should choose this proven system. This is the ideal option for beginners.

HOW IT WORKS

Popular amongst chilli farms, this great grow system has a wick in each pot linking the media to the solution in the reservoir. The wick pulls nutrient solution up into the media as and when the media starts to dry out. So the roots always have access to nutrient solution without ever sitting in water or becoming waterlogged.

Options: 4 pots or 8 pots.

QUADGROW® & OCTOGROW®
MULTI-PLANT PASSIVE GROW SYSTEM



Photograph by Brian Cannon.

READY TO REFRESH? IT'S ALL IN THE ROOTS!



**IWS HAND-WATERING
TECHNIQUE: HAND-WATERING
MEDIA: COCO AND SOIL**

Some growers want to remain hands-on with their plants. So we've designed a modular hand-watering system that helps these growers to develop hand-watering into a well-crafted skill.

The IWS hand watering kit prevents water-logging and the build-up of excess salts and flushes the media at every feed.

HOW IT WORKS

Water from the top to saturate the media.

The excess water and nutrients run out of the pots and drain to the control unit where the grower can check the EC and pH. Waterlogging is prevented and the media is flushed of any excess nutrients.

When the solution reaches the float in the control unit the solution is pumped to waste.

Options: 6 to 80 pots. Pot sizes 9, 16 and 25 litre.



Photograph by Brian Cannon.

IWS HAND WATERING
MODULAR PASSIVE GROW SYSTEM

QUICK GUIDE TO GROWING MEDIA

Clay Pebbles are free draining with high air content. They provide the most oxygen rich environment of all growing media with no risk of nutrient build-up or waterlogging.



Coco retains more water than pebbles which means there's less oxygen in the root zone than if using pebbles, but coco does give growers a buffer against not feeding enough.



Mixed pebbles and coco combines the best of these media. It provides better access to oxygen than coco and a better buffer against underfeeding than pebbles.



Soil is the most familiar growing media for new growers. It often contains peat and perlite and is available with added fertiliser.

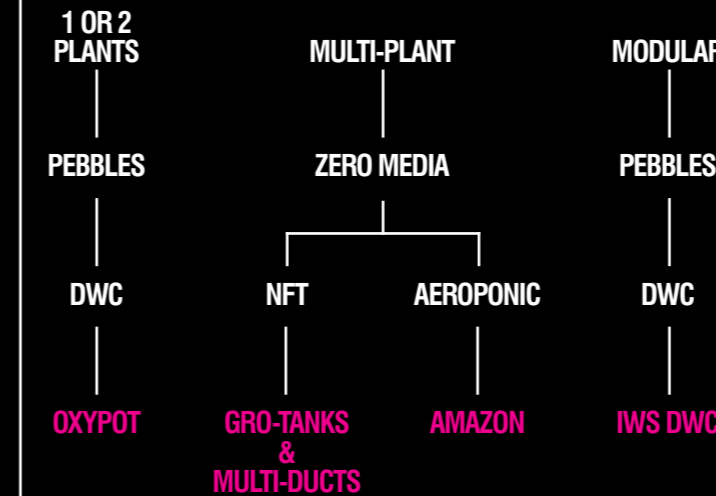


Rockwool 3 inch cubes – Gro-Tanks and Multi-Ducts are used with rockwool which provides excellent ratio of air and water.

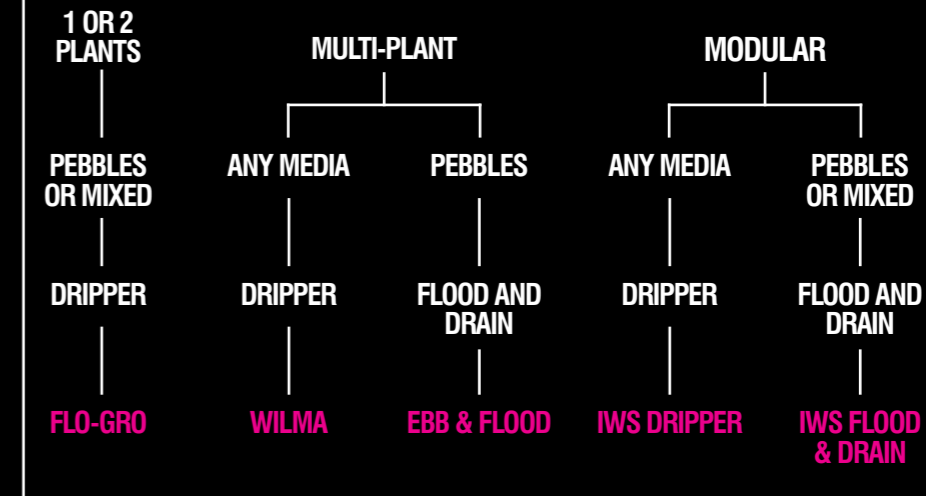


QUICK GUIDE TO HYDROPONIC KITS

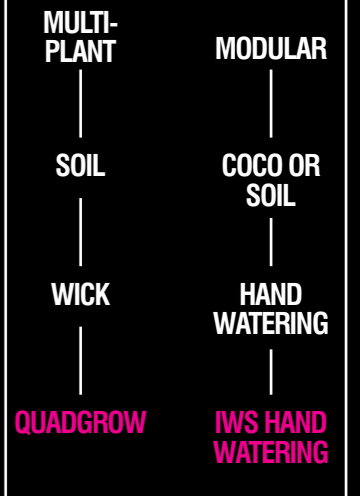
CONSTANT FEEDING



TIMED FEEDING



PASSIVE FEEDING





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