

IWS MODULAR GROW SYSTEMS



nutriCulture
GROW SYSTEMS



INTRODUCTION TO IWS – MODULAR GROW SYSTEMS

LARGE-SCALE GROWING WITHOUT COMPROMISE

IWS pot-based systems have been the favourite modular choice of experienced growers for 10 years. They enable growers to produce exceptional quality harvests on a large scale.

Up to 80 plants can be managed from one water butt, maintenance requirements are minimal and the individual pots can be removed or moved around under lights as required.

Every IWS kit is extendable, additional pots can be added at any point making it very cost effective for growers looking to upscale over time.

IWS kits provide access to everything plants need, optimise root health, increase nutrient uptake and maintain uniform pH and EC.

Once growers have tried IWS no other modular grow system will do.

4 TECHNIQUES

TIMED FEEDING



FLOOD & DRAIN – for use with coco, mixed media, soil or clay pebbles



DRIPPER – for use with mixed media, soil or coco

The timed IWS systems include a reliable feed duration and frequency controller. Growers can automate feeds as frequently as every half hour – giving growers precision control.

1 GREAT REPUTATION

UNTIMED FEEDING



DEEP WATER CULTURE – for use with clay pebbles



HAND WATERING – for use with coco and soil

TIMED FEEDING

IWS FLOOD & DRAIN

MEDIA: CLAY PEBBLES OR MIXED MEDIA

FROM 6 TO 80 POTS

POT SIZES: 5.5 LITRE AND 9.5 LITRE

This is the most popular of the IWS systems. It offers the ultimate in control, exceptional drainage, and 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

1. The grower sets the frequency and duration of the feeds.
2. At the set times nutrient solution is pumped from the water butt to each of the pots where it rises into the root-zone pushing stale air up and out and giving the roots access to the nutrient solution. The floats in the brain unit ensure that the same level of solution rises into every single pot.
3. At the end of the set feed duration whatever the roots haven't taken up drains back from the pots to the brain and fresh oxygen is pulled down into the root zone of each plant. The solution is pumped from the brain to the water butt where it mixes with the fresh solution rebalancing the pH and EC.

Pro Option: Faster flooding and draining

The Pro option floods and drains twice as quickly, pulling more oxygen into the root zone at each feed.

It has a higher capacity feed pump, additional drain pump and wider pipe and fittings.

The Pro is especially recommended for growers who prefer to add coco to their clay pebbles.

UPGRADE OPTIONS

Flexible collapsible water tank

Ideal for tight growing spaces where rigid plastic tanks are difficult to manoeuvre.

Remote timer and pot stands

Upgrade to the remote timer and pot stands for a professional grade set-up.

The pots stands have a 15° slope for complete drainage and faster runback to the tank which improves root health. The remote timer can be placed on the wall and even outside the grow room for convenient access.

IWS FLOOD & DRAIN

MODULAR MULTI-PLANT TIMED GROW SYSTEM



TIMED FEEDING

IWS DRIPPER – TOP FEEDING WITH
28 FEED DURATION OPTIONS
MEDIA: ANY
FROM 4 TO 48 POTS
POT SIZES: 5.5 LITRE AND 9.5 LITRE

Some growers 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 and water temperature and pH and EC levels.

HOW IT WORKS

1. The grower sets the frequency and duration of the feeds.
2. At the set times nutrient solution is pumped from the brain to each of the pots where it drips into the top of the pots. The excess drains through the media into the catchment trays below the pots preventing waterlogging.
3. At the end of the feed duration, nutrient solution in the catchment trays drains back to the brain and is pumped to waste when the float trigger is reached.

UPGRADE OPTION

Flexible collapsible water tank

Ideal for tight growing spaces where rigid plastic tanks are difficult to manoeuvre.

IWS DRIPPER

MODULAR TIMED GROW SYSTEM

Photograph by Brian Cannon.



UNTIMED FEEDING

**IWS RECIRCULATING
DEEP WATER CULTURE
MEDIA: PEBBLES
FROM 4 TO 24 POTS
POT SIZE: 15 LITRE**

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

It's an excellent introduction to media-free growing and aeroponics. The growing environment and pH levels do need to be more closely controlled than when growing in the other IWS systems but the results are worth it.

HOW IT WORKS

1. Air stones in each pot create a constant stream of bubbles. The roots hang down in this oxygen-rich solution where they can access everything they need 24/7.
2. A pump in the brain unit keeps the nutrient solution constantly circulating 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.
3. Floats in the brain unit determine when the minimum water level has been reached and trigger a refill from the water butt. A manual push button on the brain unit stops the pumps so that the system can be drained.

UPGRADE OPTIONS

Pro

The Pro has a pump in the water butt which refills the brain unit when the magnetic float switch in the brain unit determines that the minimum water level has been reached. This means the water butt doesn't have to be raised above the level of the pots.

Timer (Pro only)

For more control opt for the Pro with timer. The timer drains the nutrient solution back to the water butt several times per day. The solution is pumped to the water butt and mixes with the cooler solution rebalancing the pH and EC.

Flexible collapsible water tank

Ideal for tight growing spaces where rigid plastic tanks are difficult to manoeuvre.

Pump kit

IWS DWC can be used with any air pump and air stone kit but we offer a premium kit. The air pumps in these kits are silent, reliable and deliver a high volume of oxygen.

Photograph by Brian Cannon.

IWS DEEP WATER CULTURE

MODULAR UNTIMED GROW SYSTEM



UNTIMED FEEDING

IWS HAND-WATERING

MEDIA: COCO AND SOIL

FROM 6 TO 80 POTS

POT SIZE: 9, 16 AND 25 LITRE

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 flushes the media at every feed which prevents waterlogging and the build-up of excess salts which locks-out nutrient.

HOW IT WORKS

1. Water from the top to saturate the growing media. As the water runs through the pot it leaches the media of any unused nutrient.
2. The excess nutrient solution runs out of the pots and drains back to the control unit where the grower can check the EC and pH and make adjustments to the make-up of the next feed. Waterlogging is prevented and the media is flushed of excess nutrients.
3. The control unit has a magnetic float switch, when the solution reaches the float the solution empties to waste.



Photograph by Brian Cannon.

IWS HAND WATERING

MODULAR PASSIVE GROW SYSTEM

ACCESSORIES

THE POTS

The IWS Flood & Drain and IWS Dripper have a choice of pots.

Clay Pebbles

Aqua Pot – Holds 5.5 litres.

The Aqua pot has drainage holes most of the way up and is only suitable for use with clay pebbles.



Coco or coco with layer of pebbles

Culture Pot – Holds 5.5 litres.

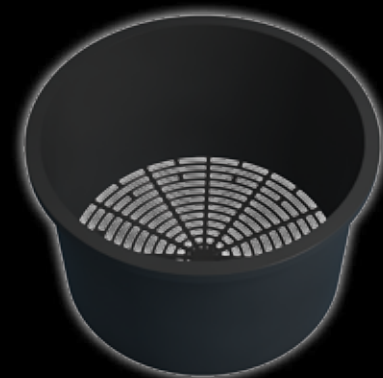
The Culture pot has fewer drainage holes and can be used with coco.



Clay pebbles, coco with layer of pebbles

Punch Pot – Holds 9.5 litres.

Maximises root-space for bigger plants.



THE TIMER

The timed IWS Nutriculture Grow Systems include a precision timer.

The timer allows growers to set the times at which each feed starts and to adapt the feeding duration at the touch of a button.

This precision control over the feed duration means growers can match the feed duration and frequency to the life-stage of the plants.





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nutriculture  **DGS**
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Skelmersdale Tel: 01695 554 080

Barnsley Tel: 01226 320 850

Birmingham Tel: 0121 289 3450

sales@nutriculture.co.uk

www.nutriculture.co.uk