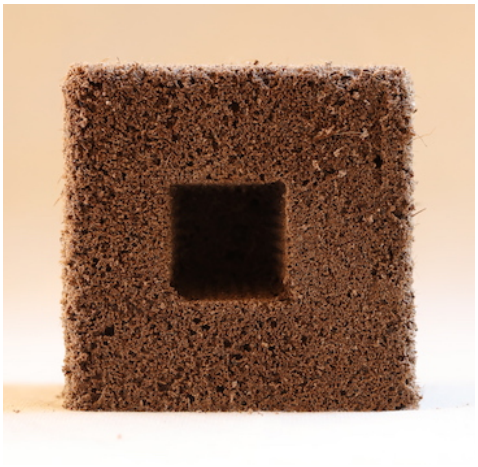
HYDROPEAT™
The responsible grower's number one choice

GROW CUBES

100% Coco Peat Growing Medium



TECHNICAL DETAILS

EC 1 mS/cm. (+/- 0.2)
pH 5.9 1 : 1.5 water (+/- 0.2)
Moisture Content = 84%
Chemical Analysis: Potassium, Sodium, Calcium, Magnesium, Nitrate

- Cubes available in 4"x4"x4" & 5"x5"x4" sizes
- HYDROPEAT cubes have a 1.25"x1.62" hole

USER GUIDE

Moisten Grow Cube

Prepare water with a pH of 5.8. On personal preference you can add a root stimulator to the water. Allow the Grow Cube to fully suck up the prepared water. Let it drain out excess water. **Do not squeeze out or dry the cubes**. Grow Cubes are self-regulating and will only hold the water they need for an optimum moisture level and an optimum air-to-water ratio. The cube will feel much heavier than Rock-Wool, but that's normal.

Put the plug in the cube

Put the plug with cutting or seedling in the hole on the upper side of the Grow Cube. It will fit nicely and you will not encounter a transplant shock.

Remoistening

Only remoisten the Grow Cube when they start to show lighter spots.

Fertilizing

After 5 days start remoistening the Grow Cube with a light fertilizing mix with an EC of < 1.4 and a pH of > 5.8.

Please turn over for drip irrigation guide.

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GROW CUBE

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Using Drip feed irrigation

Irrigation via drip emitters is a well-controlled way of watering and fertilizing the plant..

Optimal position of drip emitters

- +/- 1.0 cm. (0.39 inch) underneath the top of the Cube
- at an angle of 30-45 degrees
- 2 drip emitters on opposite sides of the Cube

Flow of drip emitters

The type of drip emitter and the flow depend on variables such as:

1. evaporation: depends on humidity level of growing room and the ventilators present
2. water intake plant: depends on size and phase in plant cycle
3. the amount of overflow the grower likes to use

General guidelines for using drip emitters

1. Moisten the Cube and let it drip out the excess water. The Cube will self-regulate to exactly the right air-to-water ratio. Put a rooted Plug into the center of the Cube
2. Put 1 drip emitters in opposite sides of the Cube, following the above instructions at "Optimal position of drip emitters"
3. Make sure your ventilators are NOT working. Just after transplanting they are not needed yet and they will have a huge impact on the evaporation of your substrate and plant. Ventilators will accelerate the drying out of the substrate considerably.
4. In those first 3-4 days you can do without your drip feeding system in action. The just transplanted plant is still small and uses little water and the Cube holds a lot of water (when the ventilators are off).
5. After about 3-4 days the Cube will start to show lighter brown spots and you can start watering with your automatic drip cycle at a rate of about 1 liter (0.265 gallon) a day per plant. This is the moment to put your ventilators on again.

Why not start the drip cycle right from the start?

Making use of the above watering instruction will result in the Cube gradually becoming a little drier in the first phase after transplanting a Plug with plant into it. This is exactly what we want, because the roots will start looking for water, resulting in an accelerated rooting speed.

- Once the Block starts to show lighter brown spots, it needs watering and you will need to start your drip irrigation immediately.
- The leaves of the plant can be used as an indication as well. Make sure the leaves do not start hanging due to lack of water. Already at the first sight of tips of leaves starting to hang down a little, start your automatic drip cycle immediately.

Once starting up the drip cycle and providing the plant with the right moisture levels, there will be an accelerated development of the plant in the beginning.

Extra remarks or suggestions

- A popular schedule for growers is to water about 5 times a day with an automated drip emitter system, that will create a very stable and constant pH and EC level.
- Most professional growers that re-use their collected water, like to work with an overflow of about 20%, but everybody has their own preferences and systems with collected drainage water.
- In the last flowering phase most growers tend to calculate with a daily intake of about 0.5 liters (0.14 gallon) per plant. The rest of the watering flow is mostly compensating the evaporation rate and creating the overflow the grower likes to work with.

Continuity of the drip irrigation schedule

The industrial way of processing and producing the Cubes, guarantees the same air-to-water ratio for each single Cube. So at the start there is an effort needed by the grower in checking moisture levels of the substrate and controlling and adjusting the pump, but later on, a grower can trust on working with the same values for each cycle.