

GrowTank

Planting Manual



Table 1. Available seeds approved by OPCOMFarm for GrowTank can be purchased on OPCOMFarm website.

No.	Name	Chinese Name
1	<i>Cerasus pseudocerasus</i>	樱桃(红珍珠) 观赏西红柿
2	<i>Cucumis sativus</i>	小黄瓜-翠娘
3	<i>Capsicum annuum</i>	墨西哥辣椒(青军)
4	<i>Capsicum frutescens</i> L.var. <i>grussum</i> Bailey	甜椒-金苹
5	<i>Capsicum annuum</i> L. var. <i>conoides</i> (Mill.) Irish	朝天椒
6	<i>Malvaviscus arboreus</i>	红秋葵

● **The plants also you can try:**

Clitoria ternatea, *Matthiola incana*, *Stevia*, *Verbena*, *Rosemary*, *Sage*...etc.

Planting Manual for Climbing plants

A. Sowing Stage (Otherwise you can also skip this and instead by cutting)

1. Application appropriate volume of water into the seedling tray.
2. Soak the sponges containing seeds into water until the sponges fill in with water. (If using seeds purchased yourself, place seeds into sponges and seal the remain seeds in bag tightly, store in the refrigerator).
3. You can cover the seedling tray with a black cloth to keep it in dark until seed germinate. In general, the seeds will germinate within 3-14 days (depends on the specification of seeds).
4. Remove the black cover once the seeds germinated.
5. Prepare the nutrition solution recommended by OPCOMFarm. Add appropriate volume of water to dissolve the powder.
Nutrition solution: Make sure that E.C. is 1.2-2.5 mS/cm and pH 5.5-6.5.
OPCOM Farm SUGGESTION: Nutrition solution may be used by ONAT002.
6. Transfer the plants to OFG005, power on machine and press LED and PUMP "ON".

B. Seedling Stage

1. Keep the healthiest and strongest seedling on each sponge will be suggested. Remove extra or weak seedlings on sponges carefully.
2. Fill the empty growing tray with sponges to reduce the algae growth effectively.
3. Adjust LED lights and keep distance to make sure that LED cover all plants.
4. Set the LED "on" and PUMP "on" during this stage.

C. Growing stage

1. When the seedlings grow to 3-4 inches height, change control box to AUTO mode.
2. Measure the E.C. and pH at least once a week, adjust to optimal growth condition for better result.



Figure . Growing stages of cucumber and tomato on GrowTank.



Figure, Growing stage of Melon on GrowTank

3. You should start pruning climbing plants when they get to be about 1 – 2 feet tall. Any smaller than this, this may not recover from the shock of being pruned. You have another choice that no pruning is needed.
4. Pruning - By the time your climbing plant gets to be this size, the plant will have branches coming off the main stem. This is called sucker. Using a sharp, clean pair of pruning shears, snip these small sucker branches off.



5. Growing climbing plants on strings is a relatively new method that has seen increased popularity in small farming operations. It involves tying the climbing at the base of the plant and then to an overhead crossbar. The climbing plant is then trained up the string as it grows.
6. Otherwise, OPCOMFarm set up 4 vertical sticks for climbing plants growth. Set up a grow net and fix climbing plants by clamp is also a good choice.
7. During flowering stage, application of OANT009 supplied by OPCOMFarm is recommended to get good fruits

D. Harvest

1. In general, you can expect to harvest the leafy crop within 3-4 months after sowing the seeds.