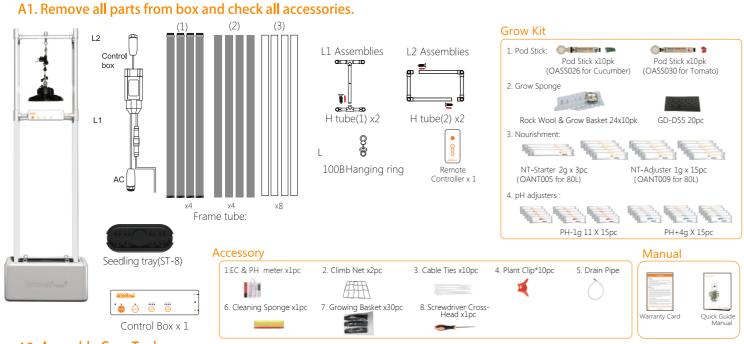
OPCOM[®] Farm[®] GrowTank

Thank you for purchasing OPCOM Farm GrowTank, the indoor hydrop onics growing system. It is designed with easy to use and efficient growth by one-touch AUTO mode. It holds up to 48 plants capacity. Read the quick guide carefully before setting it up. For detailed user guide video, please vis it GrowTank page at http://www.opcomfarm.com/Growtank

A. Assembly



A2

T

A2. Assemble GrowTank

- 1. Assembly
- 1 Place four Hanging rings on each corner on water tank.
- 2 Insert 4 aluminum Frame tube(1) and secure its position.
- **3** Extend upper 4 aluminum Frame tube(2) by aligning and twisting in the treads on the poles of step 2.
- Use H tube(1) and Frame tube(4) to assemble L1 square frame with extended poles of step 3 together and screw closely.
- **6** Connect another upper 4 plastic Frame tube(3), then assemble L2 Frame with 2 H tube(2) and 1 Frame tube(5), and assemble it on the top of the plastic tubes, screw closely
- 6 Tighten the metal Hanging Ring with L100B and the long plastic Frame tube(5). Then ensure metal ring chain go through the metal ring in the LED light and set the height by buckling two metal ring together.

2. Electric line setup

- **7** Connect control box to the front tube of the square frame.
- 8 Connect L100B LED light quick release adapter to the cable on the control box. * L100B can adjust 2 kinds of grow light, R:B(5:1)/R:B(9:1), to meet different planting stage requirement.

3. Water line setup

- 9 Connect the black tube to the Y-type filter on the side of pump.
- 10 The other two balck tube go through the hole in the tray from bottom and top to around 10 cm.

4. Other Installation

1 Add 21 gallons/ 80L (80% full) water to water tank.

Chart I: Control Box Mode

| Fuction | Status | Operation | Light | Time(On/Off) | Note | Fuction | Status | Operation | Light | Time(On/Off) | Note |
|---------|--------|-----------|-------|--------------|------|---------|--------|-----------|-------|--------------|-----------------|
| | Auto | One Click | • | 16H/8H | | | Auto | One Click | ۲ | 12 Cycles | * 10 mins/cycle |
| | ON | One Click | • | 24H/0H | | | ON | One Click | • | 24 Cycles | * 30 mins/cycle |
| Led | High | One Click | • | 18H/6H | | Pump | High | One Click | • | 12 Cycles | * 30 mins/cycle |
| | Low | One Click | • | 10H/14H | | | Low | One Click | ۲ | 8 Cycles | * 30 mins/cycle |
| | OFF | | ۲ | 0H/24H | | | OFF | | ۲ | 0 Cycles | |

Most plant can be grown using the AUTO mode. Remote controller support wireless remote controller. * Instant timeline override:Daily working mode setting

*a. When Power On, press hold POWER button until 1 beep sound (Less than 2 second) to turn off the power.

b.When Power On, press hold POWER button until 2 beep sound (About 5 second) to reset timeline to auto power on (On/Off 16H/8H). *a.When Power Off, press hold POWER button until 1 beep sound (Less than 2 second) to turn off the power.

b.When Power Off, press hold POWER button until 2 beep sound (About 5 second) to reset timeline to auto power off (On/Off 8H/16H).

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☑ Please read and follow every steps to avoid any malfunction.

B. Seedling

B1. Sprout Stage

- 1. Open rockwool sponge package, wet the sponge(Fig1)
- 2. Open podstick package, put into each planting basket (Fig2)
- 3. Put into the seedling tray.(Fig3). Spray water and keep the sponge wet every day.
- 4. Place the seedling tray with cover in the shade or cover it with black cloth.

Chart II: Plant Stage

| Cucumber, Tomato | Time after planting | LED Mode | Pump Mode | Nourishment | t ⊤(°F) | RH |
|-------------------|---------------------|----------|-----------|-------------|-----------|------|
| Sprout Stage | Day 3~Day 7 | OFF | OFF | | 75.2° | 80% |
| Young plant stage | Day 10 | ON(*1) | ON | starter | 59° - 86° | 45%- |
| Growing Stage | Day 20~Day 40 | Auto(*1) | Auto | 80L | 59° - 86° | 45%- |
| Blossom Stage | After Day 20 | Auto(*2) | Auto | 80L | 59° - 86° | 45%- |
| Fruit Stage | After Day 60 | Auto(*2) | Auto | 80L | 59° - 86° | 45%- |
| | | | | | | |

1. Please keep the Pod stick package in refrigerator if you don't use it.Recommended temperture is 41 °F - 50°F. 2.LED light sourse:*1:R:B=9:1 is suitable for plant leaf growth stage *2: R:B=9:1 is suitable for plant blossom and fruit stage.

B2.Young Plant Stage

- □ 1. In each sponge, keep the strongest and thickerones and remove others.
- 2. Add 21 gallons water to the water tank(Fig4).
- □ 3. Add NT-Starter into the water tank and ensure EC value between(=1.0-2.0mS/cm)(Fig4)

| Status | 0.0-0.5 | 0.5-1.0 | 1.0-2.0 | 01 |
|-------------|-----------|-------------|----------------|----|
| Nourishment | (Add 2pc) | (Add 1 pc) | Standard range | A |

☐ 4. Ensure pH between 5.5-6.5 (adjust by pH+/-). For EC& pH adjustment instruction, please refer to the following chart (Fig4)

| Satus | 4.0-4.5 | 4.5-5.0 | 5.0-5.5 |
|--------------|-----------|------------|------------|
| pH+ adjuster | (Add 3pc) | (Add 2pc) | (Add 1pc) |
| pH- adjuster | | | |

- 5. During young plant stage (around 2 inches), turn on LED and P
- 6. You can choose different light hanging methods/positions for
- 7. Change or adjust water every 1-2 weeks according to above ite may need higher EC(over 2.0) at flower/fruit stage. Please refer choose and planting

B3. Growing Stage

- 1. Set up the climbing net around the 4 tubes in the grow tank.
- 2. Choose 4 plants and move them to suitable holes for better gr
- 3. Cover the empty plating sites to keep the rock wool wet and stop
- 4. Stable them by using climbing net or clip them on the poles.
- 5. Growtank can accommodate up to 8 plants and you can use ro on the water tank and fix them on the celling to allow the plant
- 6. When young plants grow to 3-4 inches height, switch control box
- 7. After 4-6 weeks, harvest the larger plants for consumption and 8. To save time, sow the new seeds in sprout tray one week befor

B4. Blossom Stage

- 1. After about 6 weeks, add NT-adjuster to raise EC vlaue to 2-2.5
- 2. Ensure pH value between 5.5-6.5(adjust by pH +/-). For EC and

B5. Fruit Stage

- 1. Note to add NT-Adjuster and water to raise EC value to 2.5-3 for fruit stage of the plants
- 2. If necessary, set Anti-insect net to prevent insects attack.

C. Optional Accessories

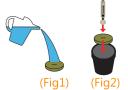
1. Black Cloth Cover













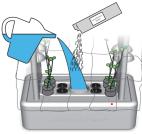
PН EC Notes Keep the sponge wet. 0.5-1.0 5.5-6.5 Keep LED distance 500mm 6-70% 1.0-2.0 5.5-6.6 above plant. Adjust LED lights position 6-70% 1.0-2.0 5.5-6.7 Ensure EC & pH value Adjust LED lights position 6-70% 2.0-2.5 5.5-6.8 Ensure EC & pH value Adjust LED lights position %-70% 2.5-3.0 5.5-6.9 Ensure EC & pH value

R:B=5:1

5.5-6.5

over 2.0 Add water

6.5-7.0



(Fig4)

| Standard range | | | | |
|--|--------------------------------------|--------------|--------|---|
| Standard range | 1pc | 2pc | | |
| Pump . Please refe various plants pe em 3 & 4. Some f to plants inform rowing. | er you needs.(Fi lowers/ fruit pl | ig5) ants | (Fig5) | |
| p moss growing u | p and | | Ż. | à |
| opes go through t hts to climb(Fig6). to growing mode. d keep smaller pla re you restart the | Please refer to nts growing. | Chart II. | | |
| 5 for flower stage d pH instructions, | | Chart II. | | |
| for fruit stage of t | he plants | | | |

7.0-7.5

3. Anti Insect Net

4. 500W Water Auto Heater

(Fig6)



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E. Maintenance

E1. Add Water

- 1. Measure the PH/EC value every 1-2 weeks and add water to achieve the vlaue balance
- E2. Change Water
- 1. After a cycle of planting, you may want to change water or clean the unit (Fig1)
- 2. When change water, clean water gateway on each planting layers, you may also add moss detergent in the water tank to avoid the moss remaining
- 3. On the regular basis of every 1-2 weeks, clean the filtering sponge in the pump

E3. EC/pH meter Use and Calibration

- 1. Keep the electrode of EC/PH meter clean and cover the electrode protective cap when not in use
- 2. Remove batteries when the EC/PH meter is not used for a long period of time.

F. Troubleshooting

| Checkpoints / Solution |
|--|
| ☑ Make sure all power cables are connected. |
| Power button is ON. |
| ☑ Make sure LED status is ON |
| ☑ If it is on HI or LOW mode, there is an off time setting for lamp, during 24-hour cycle. |
| $ar{$ Pump may make a buzzing sound in the beginning due to air inside the pump. After a minute with water |
| running through the pump, this sould be reduced. |
| Control Box is designed with Auto, HI and LOW modes, which turn the lamps and the pump on |
| and off periodically. It simulates an outdoor daily cycle to offer the best growing condition |
| ☑ Make sure Pump status is working. |
| ☑ If it is on HI or LOW mode, there is an off time setting for lamp, during 24-hour cycle. |
| ☑ Ensure the air tube connected with the plastic air port. |
| |

G. Installation steps of water pump



1. As shown in the picture:

prepare the backup pump.

H. Q&A





the air pipe vertically from the

outlet water joint of the pump.

As shown in the figure, insert

3. As shown in the figure, the intermediate position of the



connector from the wire pump connector

(arrow pointing at arrow).

motor pipe clip of the spray-on water tank and insert the pump 4pin power

4. As shown in the figure, put the spray-on component of the replaced pump into the

5. Pump replacement is completed as shown in the figure.

(Fig1)

Question Answer Pump will stop under this situation and Low water alarm in water tank will red on to warning need Pump was running without water fill in water. The lamps provided with your GrowTank is standard OPCOM 100W (L100B) LED Growth Bulb. This is What type of lamps can be used in suitable for most plants' growth. the GrowTank? Climbing net : you can use our climbing net, or your own climbing net. How to use climbing net? *Vertical : Assist the growth of plants until the plant grows mature, ready to harvest.

module with the perforated

pipe shall be inserted.











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GrowTank

Tall Plant Hydroponics



Quick Guide Manual