

**E. Maintenance**

**E1.Add Water**

1.Measure the pH/EC value every 1-2 weeks and add water to achieve the value balance.

**E2.Change Water**

- 1.After a cycle of planting, you may want to change water or clean the unit (fig1)
- 2.When changing 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.



(Fig1)

**E3.EC meter Use and Calibration**

- 1.Keep the electrode of EC 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**

Issue	Checkpoints / Solution
Lamps not lighting up	<input type="checkbox"/> Make sure all power cables are connected.
	<input type="checkbox"/> Make sure Power button is ON.
	<input type="checkbox"/> Make sure LED status is ON.
	<input type="checkbox"/> If LED Status is on HI or LOW mode, there is an off time setting for lamp during 24- hour cycle.
Pump has a buzzing sound	<input type="checkbox"/> 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 could be reduced.
The lamp/ pump stop after hours	<input type="checkbox"/> 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.

**G. Installation steps of water pump**



1. Unscrew the screws on both sides of the motor.



2. Unplug the water pipe covering the motor and remove the motor.



3. Install a new motor on the water tank, and lock the screws on both sides to fix it.



4. Put the water pipe on the new motor to complete.

**G. Q&A**

Question	Answer
Pump was running without water	Pump will stop under this situation and Low water alarm in water tank will be red warning need fill in water.
What type of lamps can be used in the GrowTank?	The lamps used in your GrowTank is standard OPCOM 200W (L200B) LED Growth Bulb. This is suitable for most plants' growth.
How to use climbing net?	Climbing net : you can use our climbing net, or your own climbing net. *Vertical : Assist the growth of plants until the plant grows mature, ready to harvest.

# GrowTank

Tall Plant Hydroponics



Manual



F1708042



P17092806  
F1709052



P17103004

**PATENT  
Acquired**

For more information, please visit  
[www.opcomfarm.com](http://www.opcomfarm.com)

# OPCOM® GrowTank

## Quick Guide Manual

Thank you for purchasing OPCOM GrowTank, the indoor hydroponics growing system. It is designed for easy to use and efficient growing system by one-touch AUTO mode. It holds up to 8 plants capacity. Please read the quick guide carefully before setting it up. For detailed user guide video, please visit Official Website: <http://www.opcomfarm.com>

### A. Assembly

#### A1. Remove all parts from box and check all accessories.



#### A2. Assemble GrowTank

##### 1. Assembly

1. Insert 4 aluminum Frame tube(L1) and secure its position.
2. Extend upper 4 plastic Frame tube(L2) and 4 plastic Frame tube (L3) by aligning and twisting in the treads on the poles of step 2.
3. Use Square tube(L2) and Frame tube(L4) to assemble extended poles of step 3 together and screw closely.
4. Connect the H tube(L2) assemble it on the top of the plastic tubes, screw closely.
5. Lock the Hanging ring on the H tube(L1), then lock the LED Grow Light screw on the LED Grow Light L200B, and use the two ends of the Hanging rope to fasten the Hanging ring and Light screw together. Decrease the height of the LED light through the adjustment buckle in the middle of the Hanging rope, and raise the height of the LED light height by pulling the rope of the Hanging rope.
6. After adjusting the height of LED, wind the lifting rope around.

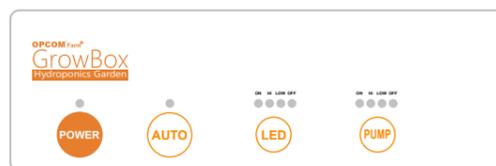
##### 2. Electric line setup

7. Connect control box to the front tube of the square frame.
8. Connect L200B LED light quick release adapter to the cable on the control box. L200B can adjust 2 kinds of grow light, R:B(5:1)/R:B(7:1), to meet different planting stage requirement.

##### 3. Other Installation

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

#### Chart I: Control Box Mode



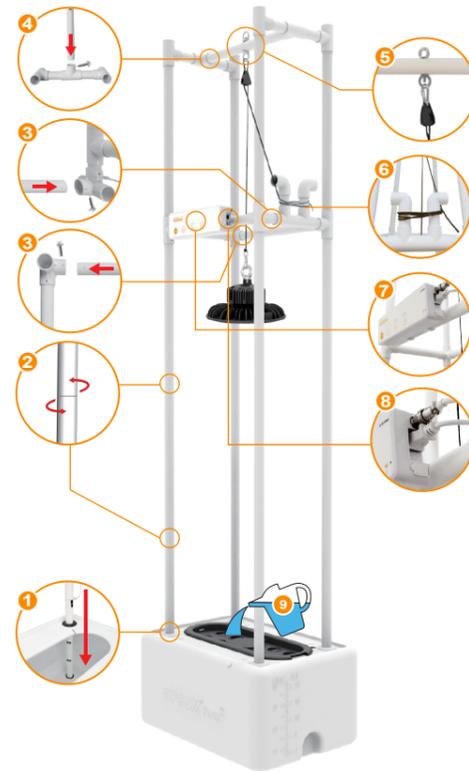
\* Most plants can be grown using the AUTO mode.

\* Remote controller support wireless remote control.

\* When Power On, press hold POWER button until 2 beep sound (About 5 second) to reset power on timeline.

\* When Power Off, press hold POWER button until 2 beep sound (About 5 second) to reset power off timeline.

Fuction	Status	Operation	Light	Time
Power	On	One Press	●	Follow last mode before turn off
	Off	One Press	●	Off
Auto	On	One Press	●	LED: 16Hr/day ON mode of LED, 10mins/2 hour ON mode of Pump
	Off	One Press	●	Follow LED and Pump manual mode setting
LED	ON	One Press	●●●●	24Hr/day
	High	One Press	●●●●	18Hr/day
	Low	One Press	●●●●	10Hr/day
	OFF	One Press	●●●●	0Hr/day
Pump	ON	One Press	●●●●	30mins/ 1hour
	High	One Press	●●●●	30mins/ 2hours
	Low	One Press	●●●●	30mins/ 3hours
	OFF	One Press	●●●●	always Off



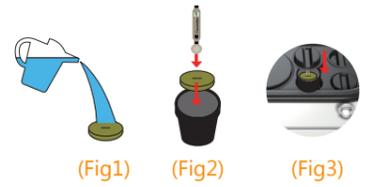
# OPCOM®

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

### B. Seedling

#### B1. Germination 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.
5. In each sponge, keep strong plants and cut the other weak plants.



#### Chart II: Plant Stage

Cucumber, Tomato	Time after planting	LED Mode	Pump Mode	Nourishment	Temp	RH	EC	PH	Notes
Sprout Stage	Day 3~Day 7	OFF	OFF	-	75.2°F	80%	0.5-1.0	5.5-6.5	Keep the sponge wet.
Young plant stage	Day 10	ON(*1)	ON	starter	59°F-86°F	45%-70%	1.0-2.0	5.5-6.6	Keep LED distance 500mm above plant.
Growing Stage	Day 20~Day 40	Auto(*1)	Auto	80L	59°F-86°F	45%-70%	1.0-2.0	5.5-6.7	Adjust LED lights position. Ensure EC & pH value.
Blossom Stage	After Day 20	Auto(*2)	Auto	80L	59°F-86°F	45%-70%	2.0-2.5	5.5-6.8	Adjust LED lights position. Ensure EC & pH value.
Fruit Stage	After Day 60	Auto(*2)	Auto	80L	59°F-86°F	45%-70%	2.5-3.0	5.5-6.9	Adjust LED lights position. Ensure EC & pH value.

1. Please keep the Pod stick package in refrigerator if you don't use it. Recommended temperature is 41°F-50°F.
2. LED light moder1 :R:B=7:1 is suitable for plant leaf growth stage, moder2 : R:B=5:1 is suitable for plant blossom and fruit stage.

#### B2. Young Plant Stage

1. Add 21 gallons water to the water tank(Fig4).
2. Add salt #1(Nutrient) into the water tank and ensure EC value between(+1.0mS/cm)(Fig4)  
B spoon=5g

Status	0.0-0.5	0.5-1.0	1.0-2.0	over 2.0
salt #1(Nutrient)	Add 3g	Add 1.5g	Standard range	Add water

3. Ensure pH between 5.5-6.5 adjust by soda(pH+) and lemon(pH-). For pH adjustment instruction, please refer to the following chart (Fig4).  
B spoon=5g

Status	4.0-4.5	4.5-5.0	5.0-5.5	5.5-6.5	6.5-7.0	7.0-7.5
soda (pH+)	Add 5g	Add 3g	Add 1.5g	Standard range	No add	No add
lemon (pH-)	No add	No add	No add	Standard range	Add 5g	Add 10g

4. During young plant stage (around 2 inches), turn on LED and Pump. Please refer to the Chart II.
5. You can choose different light hanging methods/positions for various plants base on you needs.(Fig5)
6. Change or adjust water every 1-2 weeks according to above item 3&4. Some flowers/ fruit plants may need higher EC(over 2.0) at flower/ fruit stage. Please refer to plants information before you choose and plant.

#### B3. Growing Stage

1. Growtank can accommodate up to 8 plants, set up the climbing net around the 4 tubes in the grow tank to allow the plants to climb(Fig6).
2. Choose 4 plants and move them to suitable holes for better growing.
3. Keep the rock wool wet and stop moss growing up and stable them by using climbing net or clip them on the poles.
4. When young plants grow to 3-4 inches height, switch control box to growing mode. Please refer to Chart II.
5. After 4-6 weeks, harvest the larger plants for consumption and keep smaller plants growing.
6. To save time, sow the new seeds in sprout tray one week before you restart the planting process.

#### B4. Blossom Stage

1. After about 6 weeks, add NT-adjuster to raise EC value to 2-2.5 for flower stage of the plants.
2. Ensure pH value between 5.5-6.5 (adjust by pH+/-). For EC and pH instructions, please refer to Chart II.

#### B5. Fruit Stage

1. Note to add salt #1(Nutrient) and water to raise EC value to 2.5-3 for fruit stage of the plants.

### C. Optional Accessories

1. 500W Water Auto Heater

