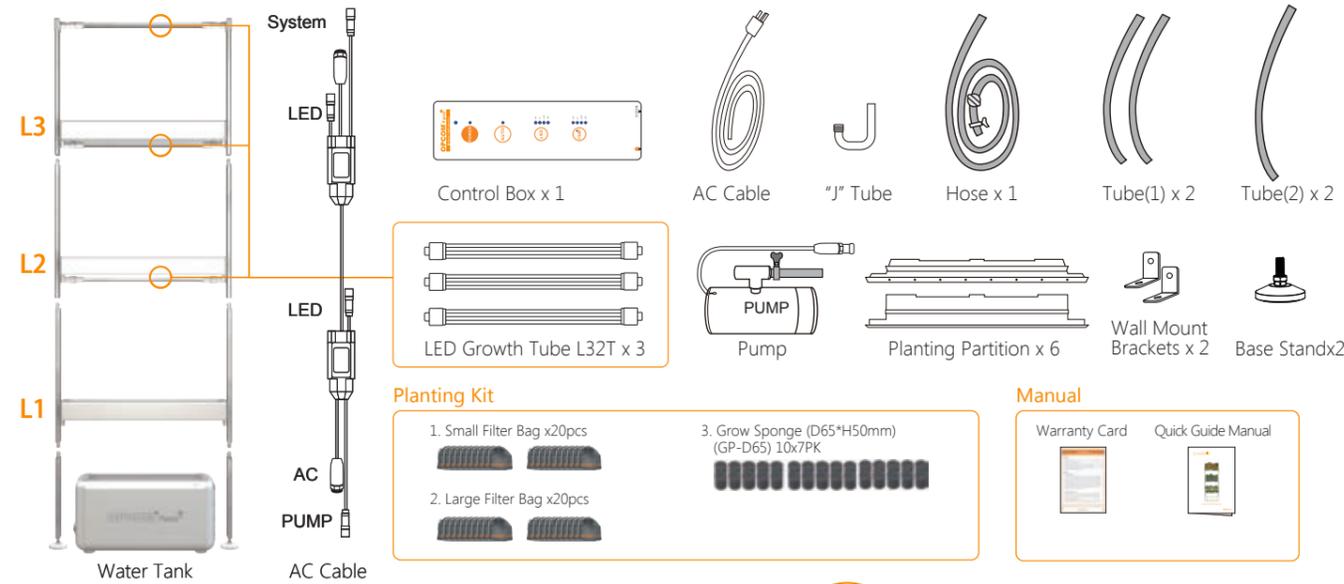


Thank you for purchasing OPCOM Farm GrowWall2G, the indoor hydroponics growing system. It is designed with easy to use and efficient growth by one-touch AUTO mode. It holds up to 48 plants capacity. Read the quick guide carefully before setting it up. For detailed user guide video, please scan the QR code or visit GrowWall2G page at <http://www.opcomfarm.com/Growwall2G>



A. Assembly

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



A2. Assemble GrowWall2G main body.

1. **Assembly**
 - 1 Clockwise assembled Base Stand into L1 layer
 - 2 Assemble top layer and through the LED wire into the right hole on the top layer.
 - 3 Follow the number of layers corresponding to the above picture, from down to up, insert the base brackets (with pad) into L1 and lock; then insert the supporting brackets into L2 and lock; repeat the previous action till L3 is locked
 - 4 Attach the control box by buckles.
2. **Water Line setup**
 - 5 Connect the water pipe with the pump and and move it to through the hole at the left side of the water tank and move it up along with the notch in the left side tower and to the top layer. Then connect water pipe with the J shape water outlet("J" Tube) and put it in the top layer.
 - 6 Insert the water pipe(Tube1) in the second layer into the notch at the right side and follow the same step to insert the water pipe(Tube1) to first layer at left side and then put the water pipe(Tube2) into the water tank.
3. **Electric Line setup**
 - 7 Connect the cables to corresponding LED light, control box & motor according to the mark on the cable
4. **Other Installations**
 - 8 Put the screw on the top of layer and stand the body vertically. Please place against the wall with 6 inches (150mm) distance
 - 9 Add 10.5 gallons (80% full) water into water tank.
 - 10 You can adjust the water flow according to the plant's need. (turn the clockwise to increase water, turn the counterclockwise to decrease the water)

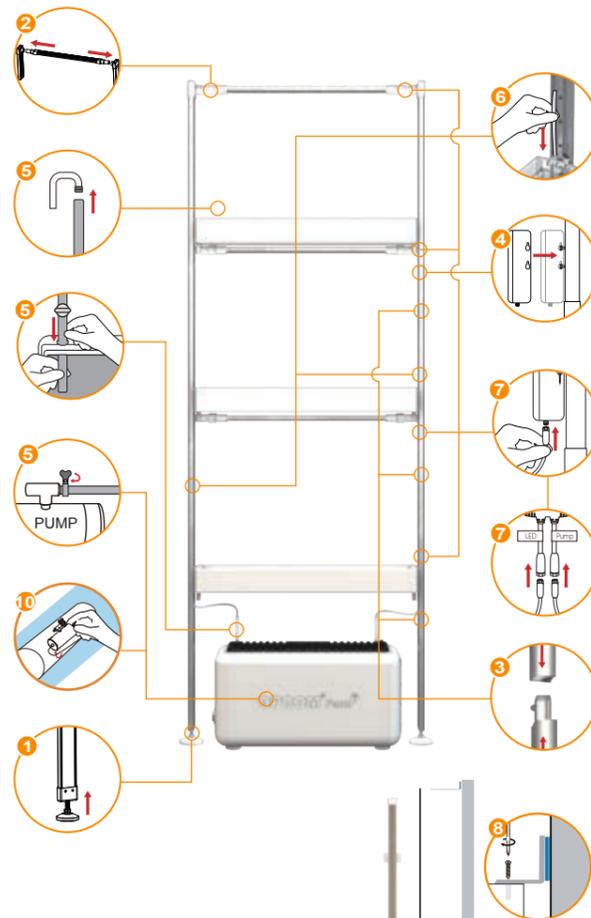


Chart I: Control Box Mode

Fuction	Status	Light	Time(On/Off)	Fuction	Status	Light	Time(On/Off)
Auto	Auto	●	16H/8H	Pump	Auto	●	48 cycles/day (10 mins/cycle)
	ON	●	24H/0H		ON	●	48 cycles/day (15 mins/cycle)
Led	High	●	18H/6H	High	●	●	4 cycles/day (10 mins/cycle)
	Low	●	10H/14H	Low	●	●	2 cycles/day (10 mins/cycle)
	OFF	●	0H/24H	OFF	●	●	

* Most plants can be grown using the AUTO mode. * you can reset the product timeline by pushing the LED button for 2 sec.

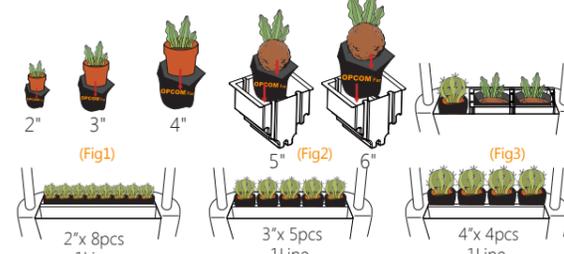


☑ Please read and follow every steps to avoid any malfunction.

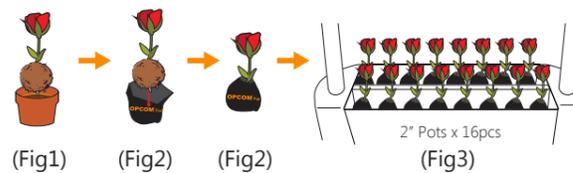
B. Planting

B1.Planting Process: Buy plants from local stores

- 1 Choose a suitable filter bag size for 2", 3", 4" pot, put it into the filter bag and tie the strings(Fig1), For 5", 6" pot, remove the pot and put it into 4" filter bag, tie the strings and put into transfer pot(optional)(Fig2); Then put the plants into tank(Fig3)



- 2 Soil Free: Remove pot(Fig1) and put into filter bag(Fig2) and then move to the product(Fig3).



- 3 Combination: You can mix different size of pots and sponges in the grow hole of GrowWall2G



B2. Flower Selection



C. Optional Accessories (Grow from seeds hydroponically)

1. Grow Kit for GrowWall2G

A. Seedling Kit:	Seedling tray(ST-70) (521*189*82mm)x2	Grow Sponge 2x60pk (OASS01K For Green Lettuce)	Grow Sponge 2x60pk (OASS02K For Red Leaf Lettuce)	Grow Sponge 2x60pk (OASS06K For Basil)
B. Nourishment:	NT-Starter x3 pcs (OAMS26K for 40L)	NT-Adjuster x15 pcs (OAMS29K for 40L)	C. pH adjusters: pH+ *15 pH- *15	
2. EC Meter *1pcs	3. pH Meter *1pcs	4. OPCOM Wave Clip	5. 500W Water Auto Heater	6. 5/6" Transfer Pod*10pcs

D. Seedling

D1. Sprout stage

1. Add water into the seedling tray, up to the water (red) line.(Fig1)
 2. Open Grow Sponge package, put the sponge into water of seedling tray(make sure the front side with the seed label is up), press the sponge into water 5 seconds and let the sponge absorb water completely.(Fig1)
 3. Place the seedling tray with cover in the shade or cover it with black cloth(to block light).(Fig2)
 4. Spray water and keep the sponge wet every day.
 5. During 7 days(leaf plant), find the sprouted one in the tray; pick it out, and move it into growing hole(make sure the sponges line up with the black dot on the partition)and keep the remaining seedling(Fig3).
 6. Add 1 pack of NT-Starter to the water tank.
 7. Discard unsprouted sponge after regular germination time.
- * Different plant may have different germination time, please check it before plant.

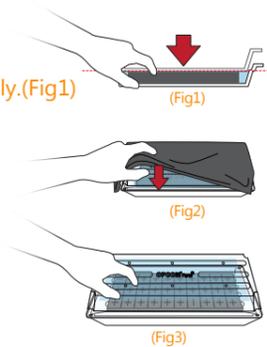


Chart II: Plant Stage

Basil, Lemon Balm	Planting Time	LED Mode	Pump Mode	Nourishment	T (°C)	RH	EC	pH	Notes
Sprout Stage	Day 0~7	N/A	N/A	N/A	20°C - 25°C	80%	0.5-1.0	5.5-6.5	The sponge is fully wet in seedling tray.
Young plant stage	Day 3~14	ON	ON	NT-Starter	15°C - 30°C	45%-70%	1.0-2.0	5.5-6.5	Check the water alarm light
Growing Stage	After Day 14	Auto	Auto	NT-Adjuster	15°C - 30°C	45%-70%	1.0-2.0	5.5-6.5	Refer to B3-4

* Please keep the seedling sponge package in refrigerator if you don't use it.

* For your expected plant amount, you can refer to the sprout rate of 1st planting cycle.

* If you need more planting information, please visit to www.opcomfarm.com to read "Plant Q&A".

D. Seedling

D2.Young plant stage

- 1. In each sponge, keep the strongest and thicker one and remove others.
- 2. Add 10.5 gallons water to the water tank.
- 3. During young plant stage (around 2 inches), turn on LED and Pump . Please refer to the ChartII.
- 4. Add NT-Starter into the water tank and ensure EC value between(=1.0-2.0mS/cm)

Status	0.0-0.5	0.5-1.0	1.0-1.5	over 2.0
NT-Adjuster	(Add 2pcs)	(Add 1pcs)	Standard range	Add water

- 5. Ensure pH between 5.5-6.5 (adjust by pH+/-). For EC& pH adjustment instruction, please refer to planting Q&A from OPCOM webstie.

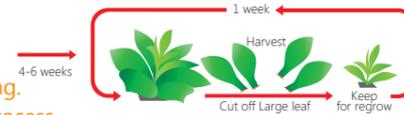
Satus	4.0-4.5	4.5-5.0	5.0-5.5	5.5-6.5	6.5-7.0	7.0-7.5
pH+ Adjuster	(Add 3pcs)	(Add 2pcs)	(Add 1pcs)	Standard range		
pH- Adjuster			Standard range	1pcs	2pcs	

Plant Size	Small
Sponge Number	70
Planting number	48 (70%)
How to Set up	 x 3 Layer

Plant Size	Medium-Large
Sponge Number	40
Planting number	24 (70%)
How to Set up	 x 3 Layer

D3. Growing Stage

- 1. When young plants grow to 3-4 inches height, switch control box to growing mode. Please refer to chart II
- 2. After 4-6 weeks, harvest the larger plants for consumption and keep smaller plants growing.
- 3. For time saving, sow the new seeds in sprout tray one week before you start next planting process



E. Sprouts and Microgreens.

- 1. Before you start next seedling, take advantage of the seedling tray for sprouts and microgreens it takes 7-10 days to harvest.
- 2. Put seeds in warm water(recommended temperature is 35°C , not over 40°C) for 24 hours.
- 3. Cover the sponges with wet paper towels.
- 4. Place the seedling tray with cover in the shade or cover it with black cloth.
- 5. After germination, during the growing stage, keep green sprout under the light and white sprout in the shade or cover it with black cloth; Around 7-10 days, you can harvest.



F. Maintenance

F1. Add Water

- 1. Measure the PH/EC value every 1-2 weeks and add water to maintain the vlaue balance

F2. Change Water

- 1. After a cycle of planting, change the water and clean the unit
- 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

F3. EC / pH Meter Use and Calibration

- 1. Keep the electrode clean of EC/pH meter and cover the electrode protective cap when not in use.
- 2. Turn off the meter when not in use for an extended amount of time.

G. Troubleshooting

Issue	Checkpoints / Solution
Lamps not lighting up	<input checked="" type="checkbox"/> Make sure all power cables are connected.
	<input checked="" type="checkbox"/> Power button is ON.
	<input checked="" type="checkbox"/> Make sure LED status is ON
	<input checked="" type="checkbox"/> If it is on HI or LOW mode, the lamp has off time, during 24-hour cycle.
The lamp/ pump stop after hours	<input checked="" 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 <input checked="" type="checkbox"/> Rotate the ring at the end of the pump clockwise or counterclockwise to get the most suitable water flow
Water Over flows	<input checked="" type="checkbox"/> Make sure it is not clogged at the water flowing gateway on each planting layer

H. Q&A

Question	Answer
Product leakage When it works.	During the delivery in vessels, aircraft, or other vehicles, it may lead to damages in GrowWall(OFG003)/GrowWall2(OFG003-2) and creates leaking problem. OPCOM FARM provides waterproof tape for you fix it in case damage happened.



For more information, please visit
www.opcomfarm.com

GrowWall2G

Wall Garden



Quick Guide Manual Garden Version