



Victory Farm At Rooftop Malaysia Sdn. Bhd.

No.1 Rooftop Urban Vertical Farming in Malaysia

Address: 3-3-1 Jalan Ahmad Nor, Jelutong, 11600, Penang, Malaysia

Website: <https://www.victoryfarmatrooftop.com>

Facebook: www.facebook.com/victoryfarmrooftop

VF@RM Growing Manual

Standard Operation Procedures

---Indoor VGROW Tower---

PLEASE READ THESE INSTRUCTIONS CAREFULLY

1. Please inform our customer support ASAP if you are facing any growing issue, so that they can provide suitable advice.
2. For any more doubts and questions, our customer support is ready to assist you within working hours (Mon-Fri 9.00am-5.00pm)
3. Please stay connected with our customer support to ensure you a smooth and satisfied progress.

Content

STEP 1: Germination	3
How to use the timer?	6
STEP 2: Fertilization	8
How to solve general plant issue?	12
Customer Support	13

STEP 1: GERMINATION

Step 1: Get ready of germination sponge, seeds and a shallow tray.

Step 2: Place 60 pieces of the germination sponge into the tray.



Step 3: Soak the sponge until it is moist but not dripping.



Step 4: Sow 2 to 3 seeds into the middle hole of the sponge cube.



Step 5: **Place** each of the sponge cube into the netcup.



Step 6: Place it into the tower. Then, turn on the water pump with preset timer.



Step 7: Once seeds have *sprouted*, turn on the grow light with preset timer.

(Please refer to Table 1.1)

(Sprouting period: ~2-3 days)

***Note:** You are encouraged to keep only 1 plant per sponge cube. You may trim off the extra seedlings to prevent overcrowded situation and disease infection.*

How to use the timer?

NOTE: You are provided with TWO timers, please connect each of them to the Water pump & Grow light cable.

Instruction:

STEP 1: Push down the red button to indicate timer mode. Turn the disc following the arrow's direction till the mark pointing to the current time.



STEP 2: Push down the joint slices according to the working duration of home appliances as expected. *(15 minutes for one slice, adjustable for 24hrs)*

- The min. set time is 15 minutes
- The max. set time is 24 hours *(Video tutorial is provided in Membership portal)*

Step-By-Step Guidance: Water pump





1. Firstly, push down the red button to indicate timer mode.
2. Then, press down all of the black slice to ensure timer run for 24 hours.
3. Lastly, release one slice on every hour, so that the timer will have 15 minutes break on every hour.

Step-By-Step Guidance: Light

1. Firstly, push down the red button to indicate timer mode.
2. Then, press down black slice from 8am-8pm.




NOTE: Please set the timer according to different growing stage.

Table 1.1

Stage	Timer (Water pump for watering)	Timer (Grow light for lighting)
Seed (~ 2 days) 		OFF (Please DO NOT turn on the light when seed has not yet sprouted)
Seedlings (~ 2 - 4 days) 	ON 24 hours per day: Set a 15 minutes break on every hour (Every stage)	ON 12 hours per day: 8am - 8pm (Please TURN ON the light once seed has sprouted) (From seedlings stage onwards)
Micro greens (~ 4 - 10 days) 		
Baby greens till Mature greens (~11-35 days) 		

STEP 2:FERTILIZATION

Item to purchase online:

No.	Product image	Name	Function
1.	 A white digital TDS and EC meter pen with a small LCD screen showing '0000' and '230'.	Digital TDS EC Meter Pen	Measure nutrient level of nutrient solution
2.	 A yellow digital pH meter pen and a pack of pH 0-14 universal test paper with three strips.	Digital pH Meter Pen OR pH test strip	Measure pH level of nutrient solution
3.	 Two plastic bottles of fertilizer, one yellow labeled 'A' and one light blue labeled 'B'.	A&B Fertiliser	Plant's nutrient source

Nutrient level (ppm) for different types of vegetable

Please refer to the **link/apps** below before fertilizing:

❖ http://www.homehydrosystems.com/ph_tds_ppm/ph_vegetables_page.html

<i><u>Plants</u></i>	<i><u>pH</u></i>	<i><u>PPM</u></i>
Lettuce	5.5-6.5	560-840
Pak choy	7.0	1050-1400
Bayam	6.0-7.0	1260-1610
Basil	5.5-6.5	700-1120
Chives	6.0-6.5	1260-1540
Kangkung	5.5-6.5	1050-1400
Kailan	5.5-6.5	1050-1400
Choy Sum/ Sawi	5.5-6.5	1050-1400
Mint	5.5-6.0	1400-1680
Parsley	5.5-6.0	560-1260
Rosemary	5.5-6.0	700-1120
Sage	5.5-6.5	700-1120
Thyme	5.5-7.0	560-1120
Watercress	6.5-6.8	280-1260

❖ **Play store:**







PlantApp - Your
Planting Guide



Hydroponic
Scale

Online search for more>>>>>>>

Table 1.2

Stage	Nutrient level
Seed (~2 days) 	-
Seedlings (~ 2 - 4 days) 	200-300ppm /
Micro greens (~ 4-10 days) 	400-500ppm
Baby greens till Mature greens (~11-35 days) 	Refer to the specific nutrient level that required by the particular plant

TIPS:

- ✓ Amount of fertilizer applied might differ from the amount stated above, it needs to be based on the reading of TDS meter.
- ✓ Fertilizer is given from *low level to high level* according to the plant size.
- ✓ **STOP** adding fertilizer if the ppm reading is showing the same or higher than the level that it has to be at every single stage.
- ✓ You may **ADD** fertilizer anytime when the nutrient level drops below the ideal ppm level.
- ✓ LETTUCE * Requires **LOW** nutrient level, 560-840ppm.
- ✓ Please continue to apply fertilizer on the continuous week if your vegetables are not ready to harvest yet.
- ✓ Better to give *less than more*. ***

AB fertiliser

Please refer to the instruction stated on the AB nutrients bottle that you bought for the exact amount of nutrients that you need to pour into the system. As the concentration of AB nutrients differ significantly from different manufacturer.

The amount applied must be based on the nutrient level (ppm) needed at every single stage of plant growth.

*** Please pour in the AB fertiliser separately into the tower. **AVOID** mixing up them.

How to solve general plant issue?



Please refer to Trouble Shooting Manual

Dear Customer,



Thank you for choosing
VictoryFarm@RooftopMalaysia.

Should you have any doubts, please feel free to contact us via



LIVE CHAT

<https://tawk.to/chat/5d731a6deb1a6b0be60b6ee4/default>

OR

Member's Portal

<https://victoryfarmat rooftop.com/membership/>

You can reach us via above platform during our operation hours
from Mon to Fri 9am to 5pm.

After hours you can still email us at

customer.service@victoryfarmat rooftop.com

Sincerely,

