

# VIVOSUN



## FlexFeed Automatic Drip Irrigation Kit (D8)

## USER MANUAL

# Love what you grow™

Welcome to **VIVOSUN**

Thank you for choosing VIVOSUN. We are committed to product quality and friendly customer service. If you have any questions or suggestions, please don't hesitate to contact us.

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# SAFETY INFORMATION



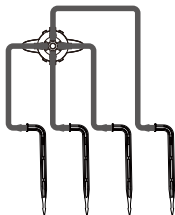
Please read the following information carefully before using. Failure to observe these safety instructions may result in serious injury and will release VIVOSUN of all liability and void all product warranties.

1. Please carefully read and follow the instructions in this manual before you start to install, operate and/or perform maintenance on this product.
2. This product has components with sharp edges. Be careful when installing and operating. Keep this product away from children.
3. Make sure your AC power source conforms to the electrical requirements of each device in this product kit.
4. DO NOT use the product in outside areas or in any hazardous locations such as places near flammable, explosive, or corrosive chemicals.
5. Keep the submerged pump under the water when it is working. DO NOT use it in corrosive or flammable liquid.
6. DO NOT press the power cord on the sharp edges like bucket edges. DO NOT cover the power cords with rugs or other fabric materials.
7. Unplug and shut off the pump before installing, performing maintenance on, moving, or if any water leaks are detected.
8. If your device or power cord is damaged, stop using and contact us for service. Disassembly or modification of devices without VIVOSUN permission may cause damage and void warranty.

# KEY FEATURES

## EXTENSIVE APPLICATIONS

This efficient irrigation kit is suitable up to 8 pots and for a wide range of grow mediums like soil, rock wool, clay pebbles or nearly any other.

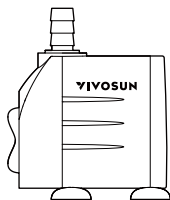


## PRECISE IRRIGATION

Professional drip emitters and regulators provide even and precise irrigation.

## QUIET & EFFICIENT

This 15W submerged pump with a max water flow of 1000L/H provides quiet irrigation and an efficient, water-saving design.

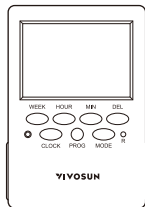


## EASY TO INSTALL

Fast and easy to install anywhere.

## AUTOMATED IRRIGATION

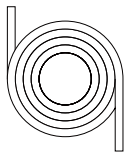
A programmable timer lets you set up to 20 different commands such as irrigation start, stop, run time, and frequency, and more.



## SIMPLE TO USE

Simple and reliable, it requires minimum maintenance thanks to a light-blocking tube that prevents algal build-up.

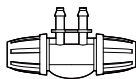
# PRODUCT CONTENTS



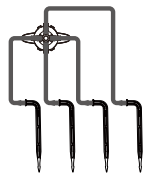
**A**  
8/11mm Tubing  
ID: 8mm, OD: 11mm  
5m



**B**  
4/7mm Tubing  
ID: 4mm, OD: 7mm  
2m



**C**  
Tubing Adapter  
8mm/4mm  
1pc



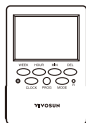
**D**  
Regulator+Drip Emmitter,  
4x50mm Tubing  
2pcs



**E**  
End Cap  
8mm/11mm  
1pc



**F**  
Water Pump  
15W, 1000L/H Max  
1pc

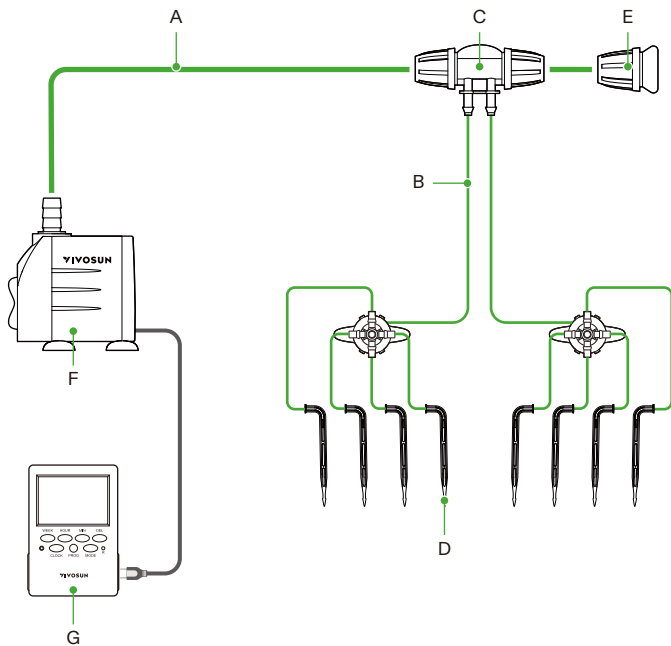


**G**  
Timer  
24/7, 20 Sets/day  
1pc



**H**  
Hole Punch  
3-4mm  
1pc

# SYSTEM DIAGRAM



# SPECIFICATIONS

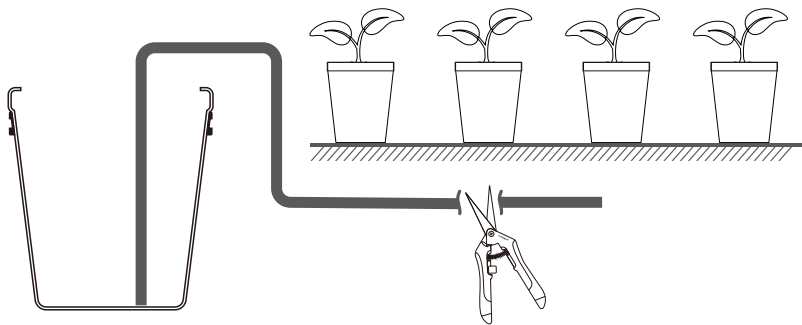
Power Input (Pump)	15W, 100V-120V/60Hz
Water Flow Rate (Pump)	1000L/H max
Water Lift (Pump)	1.6m
Water Shortage Protection	Yes
Drip Rate	0.5L/H per drip emitter (Typ.)
Number of Drip Emitter	8
Irrigating Setting	4-8 pots
Growing Medium	Suitable for soil, coco coir, rock wool, clay pebbles and perlite growing
Operating Conditions	10 °C-40°C (50°F- 104°F)



# INSTALLATION

## STEP 1

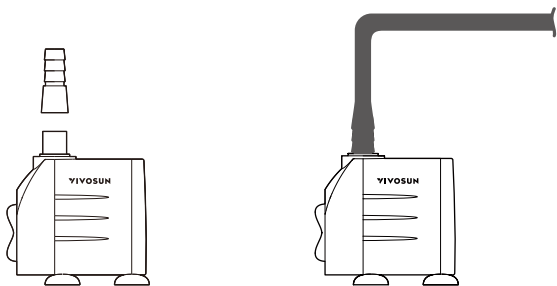
Choose a suitable container. Cut the 8/11mm Tubing (A) to an appropriate length covering the distance from the container bottom to the plants.



# INSTALLATION

## STEP 2

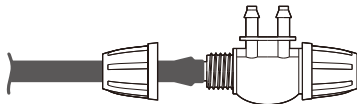
Plug the 8mm Tubing Connector in the box of Submerged Pump (F) into the pump. Connect one end of the cut 8/11mm Tubing (A) to the Tubing Connector.



# INSTALLATION

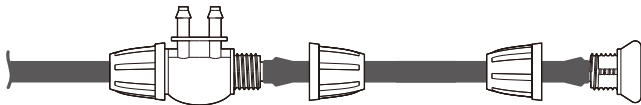
## STEP 3

Connect the other end of cut 8/11mm Tubing (A) to the Tubing Adapter (C): Unscrew one of the 8mm port caps on the adapter and put the cut 8/11mm Tubing (A) through the cap and connect. Screw on and tighten the cap.



## STEP 4

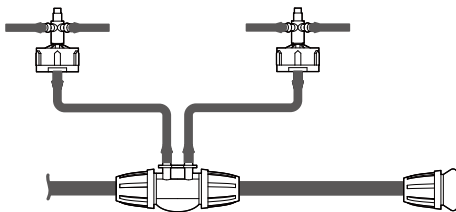
Cut a small piece about 10 cm long from the 8/11mm Tubing (A) and connect it to the other 8mm Tubing Adapter (C) port referenced in STEP 3. Connect the other end of the 8/11mm Tubing to the End Cap (E) referenced in STEP 3.



# INSTALLATION

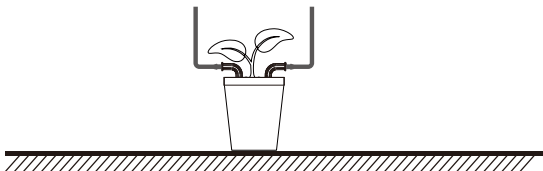
## STEP 5

Cut the 4/7mm Tubing (B) into two equal lengths and connect them to the 4mm ports on the Tubing Adapter (C) and to the two Regulators (D) as shown.



## STEP 6

Insert the Drip Emitters (D) into the plants' growing medium. We suggest two per pot.

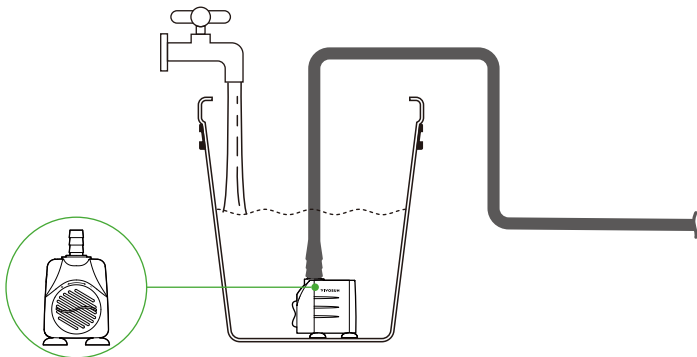


# INSTALLATION

## STEP 7

Switch the Submerged Pump (F) to the desired flow rate, place it in the water container, and fix it in place using the suction feet. Add water and/or nutrient solution to the container until the pump is submerged.

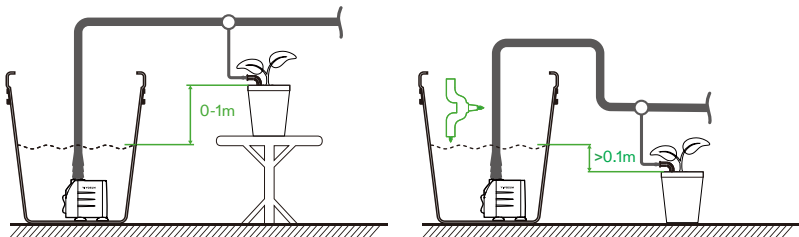
**Note:** Ensure the water level is always above the top of the pump.



# INSTALLATION

## STEP 8

Keep the Drip Emitters (D) a little higher than the water level in the container, but not more than 1m vertically higher so as to keep water flowing smoothly. If the Drip Emitter cannot be placed higher than the container's water level, use the Hole Punch (H) to poke a hole in the outlet tubing close to the pump side. The part of the tubing with punched hole must be inside the container.



# INSTALLATION

## STEP 9

Set the current time on the Timer (G) according to the **Current Time Setting** in the Timer's manual. Set irrigating schedules on the Timer (G) according to the **Timer Program Setting** in the Timer's manual.

Irrigation Schedule	Timer Settings
Start time of each irrigation	ON time of each cycle
Runtime of each irrigation	Length between ON and OFF time, Min: 1min
Irrigating times per day	Number of the ON/OFF settings, Max: 20

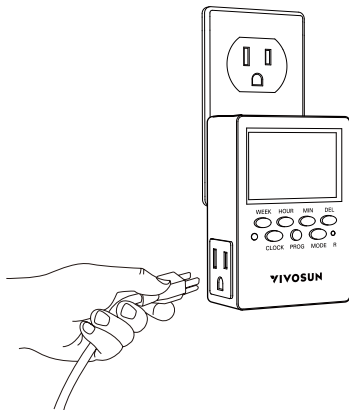
Please see the recommended irrigating schedules in the **Application in this manual**.

**Note:** It is important to check the conditions of plants and growing medium regularly and adjust the schedules accordingly.

# INSTALLATION

## STEP 10

Plug the Timer (G) into the nearby AC outlet and plug the Submerged Pump (F) into the Timer. Press the Mode button to "AUTO OFF" (showed on screen) and it will start to irrigate at the next start time scheduled.





# APPLICATION

Please read the following information about the application before using this product to grow:

## 1. Growing medium

It is suggested to use this product in a loose and aerated growing medium such as mixed soil, coco coir, perlite, and rock wool.

## 2. Start time of each irrigation

The first irrigation of each day shall start 1-2 hours after the light turns on and the last irrigation shall stop 1-2 hours before the light turns off. It is suggested not to irrigate when the light is off.

## 3. Runtime of each irrigation

The runtime should be long enough to make irrigating water just start seeping out of the pot. Check the plants and medium regularly and adjust runtime accordingly.

**Note:** The runtime varies for different size of pots, plant types and stages, environmental conditions, etc.

## 4. Irrigation frequency

In the seedling and vegetative stages, plants should be irrigated 1-2 times per day. In the flowering stage, plants only need to be irrigated 1 time per day or every other day. Reduce irrigation times for larger pots.

**Note:** The suitable irrigating frequency varies for different plant types and environmental conditions.

# APPLICATION

## 5. Routing management

Check the water level, temperature, pH and EC in your container regularly. Keep the water temperature around 20°C-22°C (68°F-72°F), and pH 5.8-6.5 to get best irrigation for your plants. Adjust the EC of nutrient water according to the growing condition of plants.

## 6. About fertilizer

Use the water-soluble fertilizer or liquid nutrient. Ensure the fertilizer is sufficiently dissolved.

## 7. Maintenance

Check the water pump and drip emitters regularly and clean them if necessary to prevent clogging.

**Note:** If the emitters stop watering but are not clogged, unplug the tubing from the pump and turn on to empty the air in the pump.

# WARRANTY INFORMATION

1. We offer a 1-year warranty against manufacturing defects for all of our products from the date of purchase. If you need warranty assistance, please contact us as soon as possible.
2. The warranty does not cover damage due to power surges, improper installation, improper use, or users' unauthorized modifications.
3. In the USA, if any light ceases working within 30 days of use, you can choose:
  - (A) Exchange: We will email you a pre-paid return label. Please ship the light back to our USA warranty center and a replacement will be sent to you free of charge as soon as we receive the defective product.
  - (B) Refund: We will email you a pre-paid return label. Please ship the product to our USA warranty center and we will issue a refund as soon as the light has been received. Refund periods may depend on the processing time of your bank or institution-usually, a refund takes about 5 business days to be processed.
4. Our company reserves all rights to the final explanation of this warranty structure. If you have any questions about our warranty policy, please contact us.

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Made in China