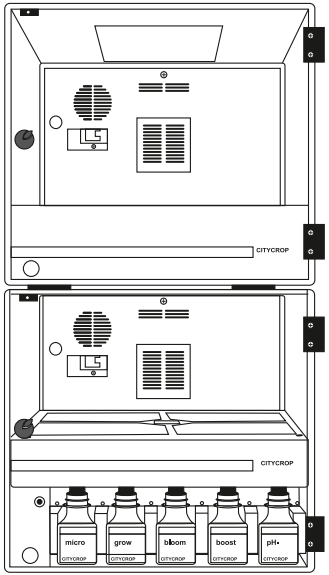
CITYCROP™
AUTOMATED INDOOR FARMING



User Manual

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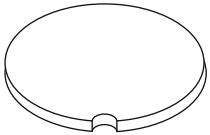
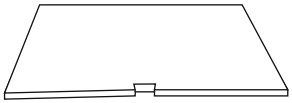
Packing List



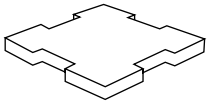
* Green Tray Lid 13x

* Green Tray Water Lid 1x



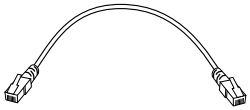
* Microgreens Tray Lid 4x

* Green Humidity Dome 6x

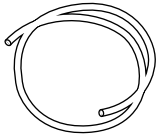


* MicroGreen Tray Water Lid 1x

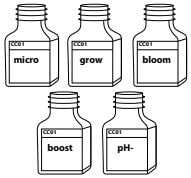
* MicroGreen Humidity Dome 4x



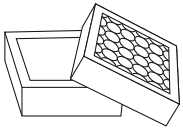
*Ethernet Cable 1x



Empty Tank Hose 1x



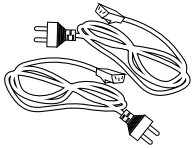
Nutrient Set



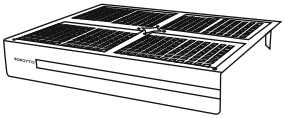
* Carbon Filter 2x

*Drain hose 1x

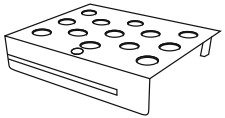
*Irrigation hose 1x



* Power Cable 2x



*MicroGreen Tray 1x

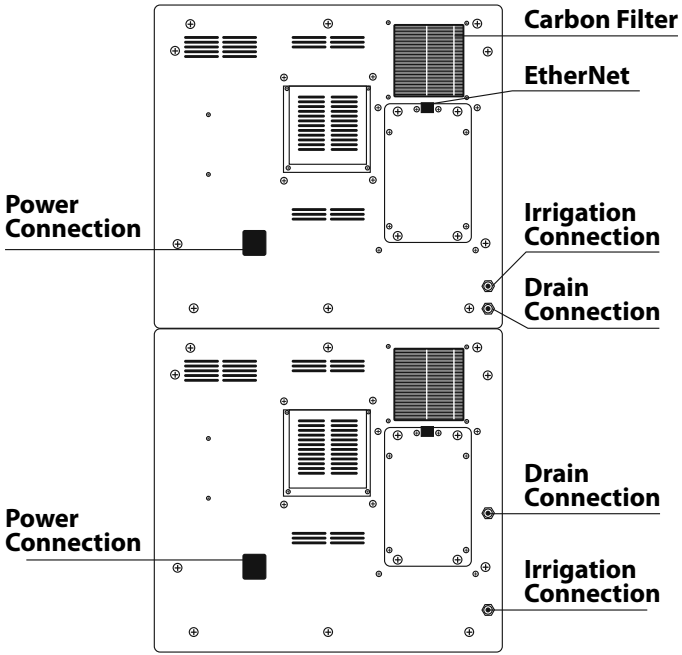


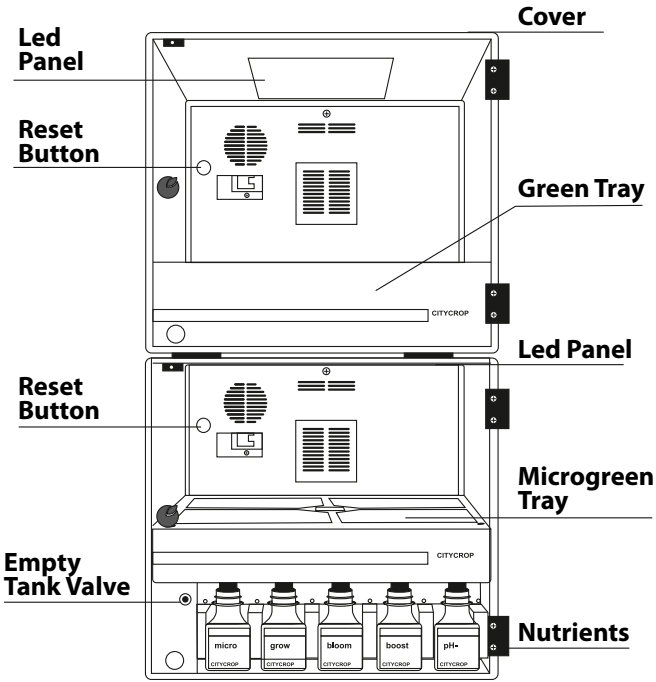
*Green Tray 1x

* Irrigation Sprayers 4x

* Quantities may vary depending on if you have bought the CityCrop One or CityCrop Twin.

CityCrop Components





CityCrop Tech Specs

Weight & Dimensions

CityCrop One (H x W x D) 42.44cm x 47.17cm x 53.9cm | 16.7″ x 18.57″ x 21.22″
Weight 30 kg, 66 lb
CityCrop Twin (H x W x D) 84.66cm x 47.17cm x 53.9cm | 33.33″ x 18.57″ x 21.22″
Weight 55 kg, 121 lb

Wi-Fi connection

Supports 802.11 b / g / n (2.4 GHz) networks with WPA / WPA2 encryption.

ⓘ ***WPA Enterprise is not supported***

Cultivation Technology

CityCrop uses aeroponics technology without soil and is therefore much cleaner and easier to handle.

Voltage

AC 220 – 240 V

ⓘ ***The voltage required for the power supply corresponds to any conventional socket.***

Environmental Control

Temperature, humidity, and Co2 are critical to plant growth, CityCrop automatically provides the optimum environment for any plant.

ⓘ ***CityCrop continuously creating the perfect environment for its plant s on its own concentration on its own.***

Nutrients

CityCrop AI and micro-dosing pumps provide to the plants a balanced diet of nutrients (food) so that they can reach their full potential.

ⓘ ***CityCrop continuously detects the exact concentration on its own.***

Internet

Internet access with Wi-Fi required.

ⓘ ***CityCrop needs internet but can work independently up to 30 days without an internet connection. We suggest for best results, to have a permanent connection since plant recipe optimizations are done in our database.***

Ventilation

Each internal fan provides a homogeneous environment (temperature, humidity, Co2 concentration) at each level separately

pH & EC

The pH (potential Hydrogen) of your nutrient solution plays a pivotal role in making these elements available to your plants.
Conductivity is an essential measurement that indicates the total amount of nutrients available to your plants.

ⓘ ***CityCrop continuously balancing the exact concentration on its own.***

Water Reservoir

Water reservoir with 8 Liter volume (refill every 3 weeks depending on usage).

ⓘ ***Via internal water tank, no fixed water connection necessary.***

ⓘ ***Water level indicator on the CityCrop will notify you via app when you need to refill it.***

Planting Capacity
CityCrop One

13 CityPods or 4 CityMats.

CityCrop Twin

26 CityPods or 8 CityMats.

ⓘ ***We provide two different trays the Pod trays and the Mat trays for maximum flexibility. Up to twenty-six different greens can grow at the same time and can also be inserted at different times.***

Water Consumption

100 liters per year.

ⓘ ***This value applies to permanent usage throughout the year***

Addressable Planting Area

~ 0,34 m^2

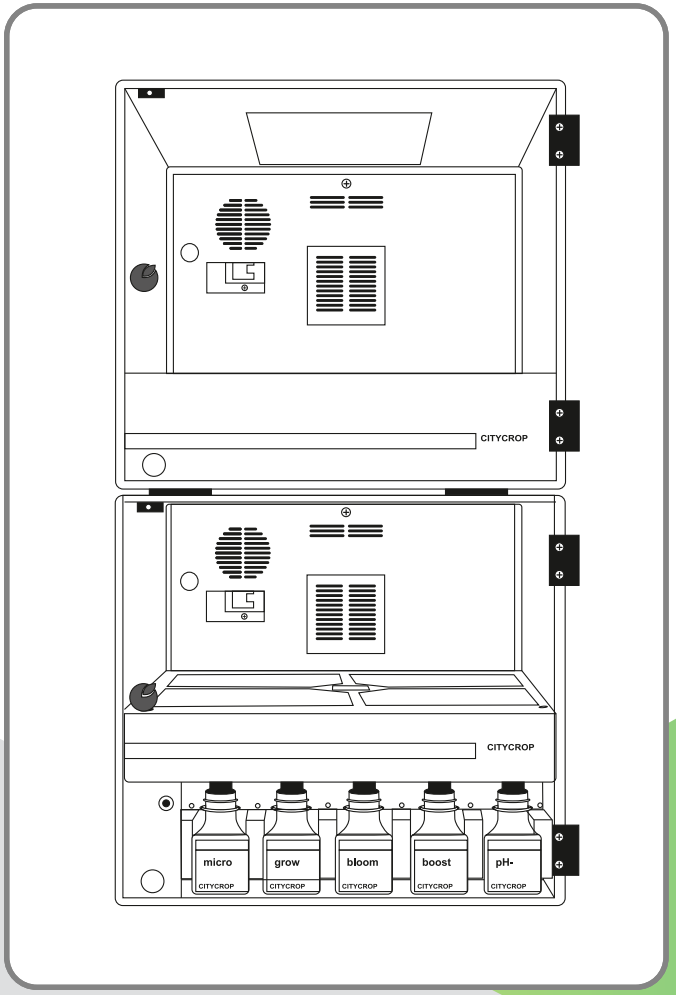
ⓘ ***Corresponds to an area almost a quarter of a square meter.***

Led Panel

Full-spectrum led panel with that rival the sun. CityCrop engineered a custom LED panel that emits an intense amount of light that encourages the plants to grow strong without sunlight

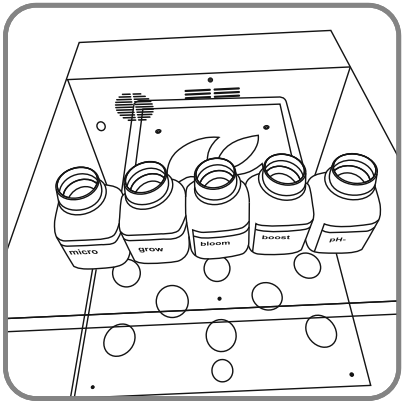
Unboxing and Placement

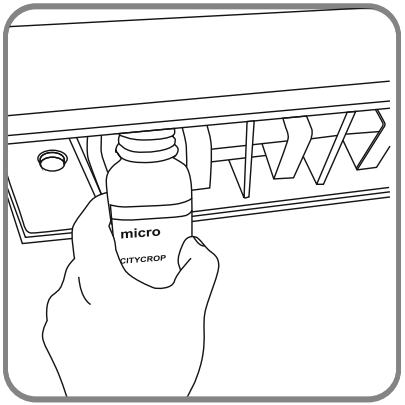
1. Unbox the CityCrop devices
2. Put the device in a suitable place on the ground.
3. Put the LU first and on the top of it the UU (If you have bought the CityCrop Twin)

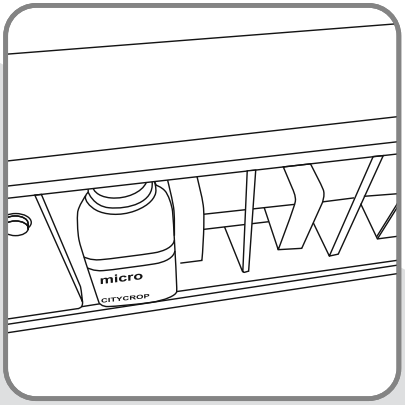


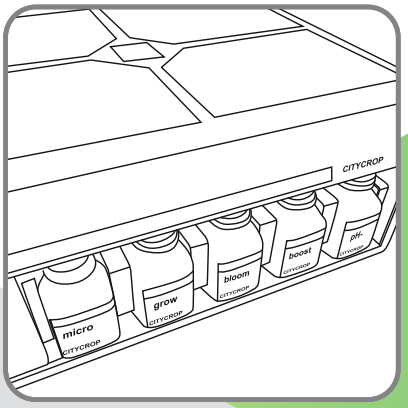
Nutrients

Remove the caps and add the nutrients in order, CC01, CC02, CC03, CC04, CC05



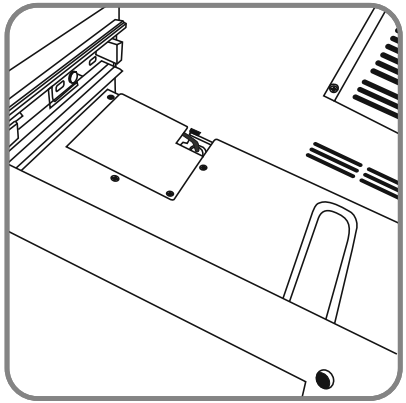


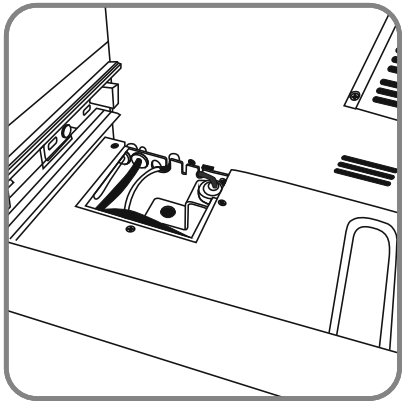


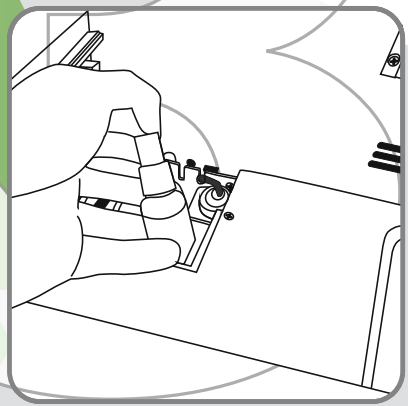


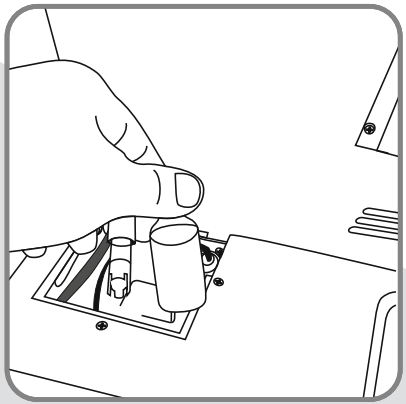
PH & EC Sensor

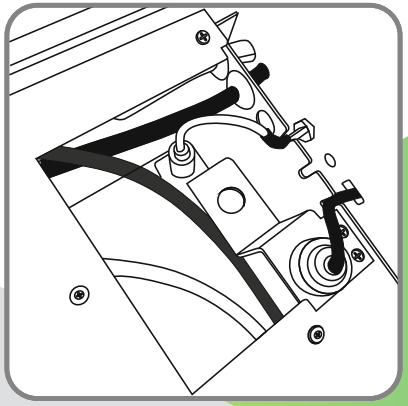
Slide the Tray from the lower unit, remove the lead on the left corner of the tank, hold on your hands the pH sensor unscrew the soaker bottle remove it, and then place the pH sensor on the lower left hole inside the water tank and then close again the lid. (Save the soaked bottle for later)





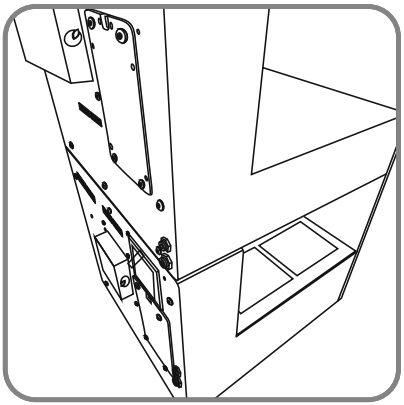


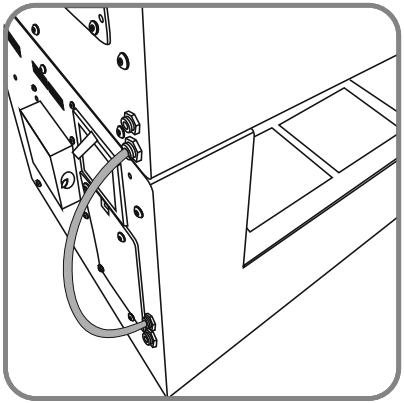


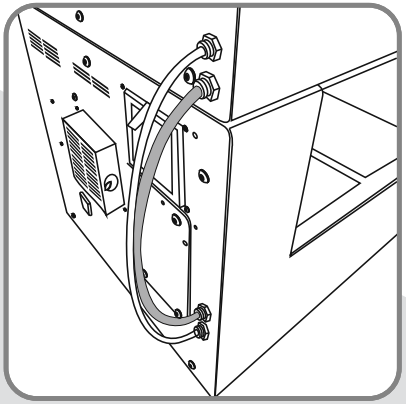


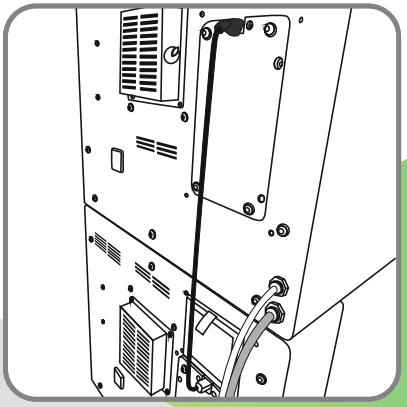
Irrigation, Drain, and Ethernet Cable

1. Connect the blue hose on the back to connect the drain from the upper CityCrop to the lower CityCrop (only for CityCrop Twin)
2. Connect the Black hose on the back to connect the irrigation system from the lower CityCrop to the upper CityCrop. (only for CityCrop Twin)
3. Connect the lower CityCrop to the upper CityCrop with the ethernet cable (only for CityCrop Twin)



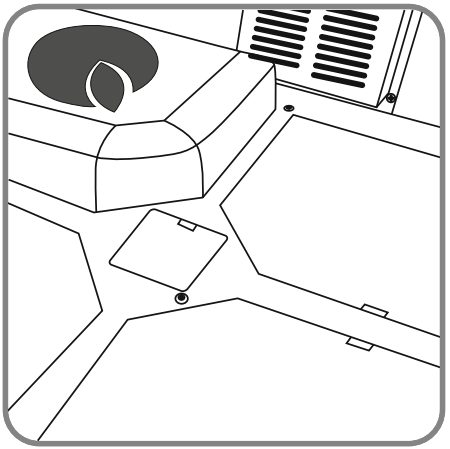


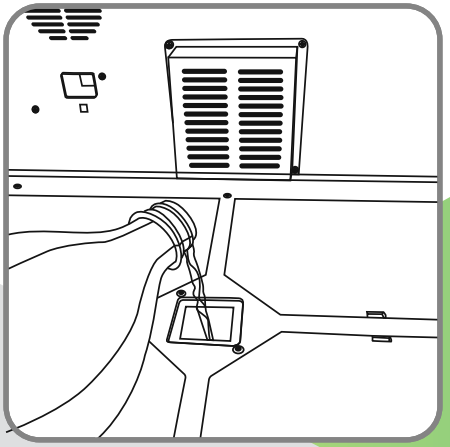




Water

Fill the water tank with 8 liters of water from the small hole in the lower tray.



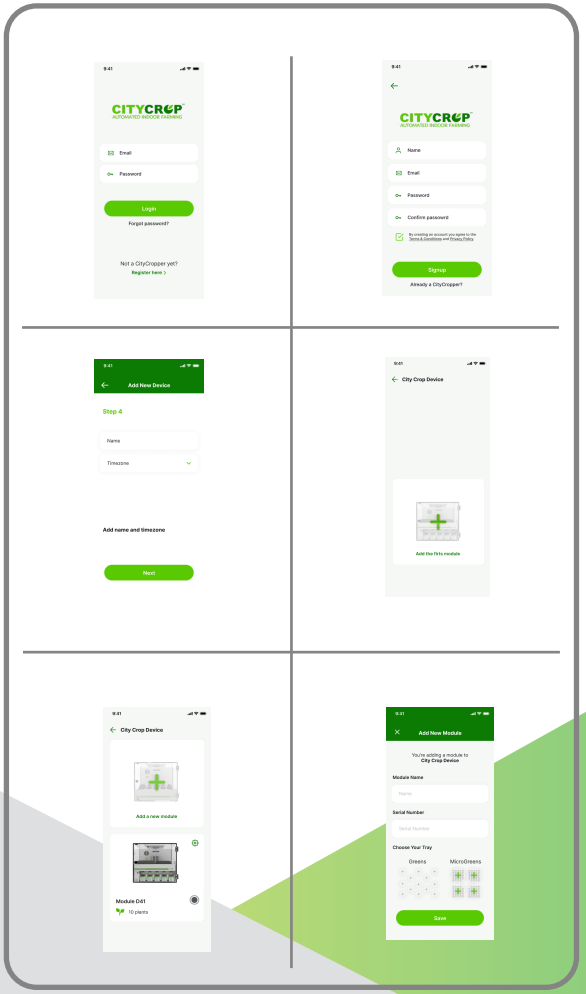


Intstall the CityCrop App

1. Download the app from play store or appstore

GET IT ON Google Play Загрузите в App Store

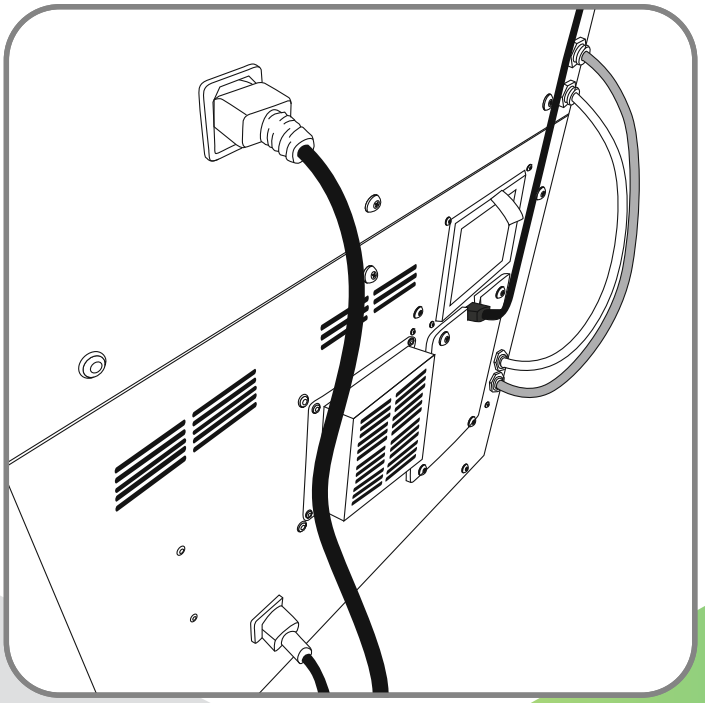
2. Create an account
3. Login into our application
4. Add a device
5. Give a name and timezone (This will be the name of the hole device e.g living room)
6. Add the first module (give a name e.g lower unit and the serial number from the label on the back of the device and choose GREENS or MicroGreens tray for your use and press get started. You will need to do the same for the upper unit as well.



Plug the Device

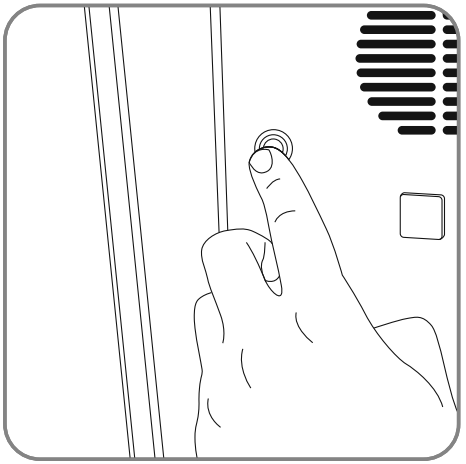
1. Connect the power cables one in each back of CityCrop
2. Plug both power cables to the socket

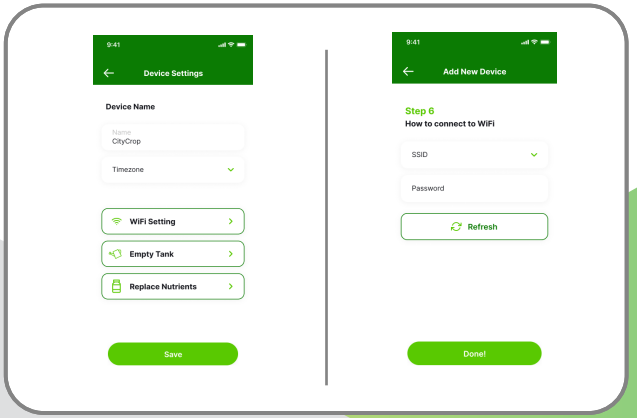
The CityCrop device will power up and the white LEDs will start blinking, wait 1 minutes until the device is ready.



Press the Button

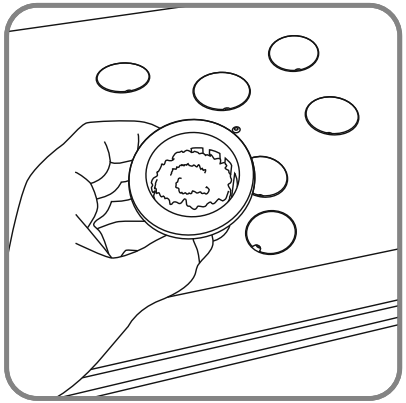
1. Press the button inside the device for 1-2 seconds then the LEDs turn to blue and starting blinking.
2. When the LEDs start blinking with the blue color, then the CityCrop network will be appearing in your wifi network list.
3. Open your CityCrop app, go to the gear menu and click on the Wifi-Connect
4. Go back to your mobile wifi settings and connect to CityCrop wifi network
5. Return back to the CityCrop app and click the refresh button on the Wifi-Connect page
6. Select the preferred network from the dropdown and then add the password
7. If the password is correct, the device will be connected to your wifi network successfully

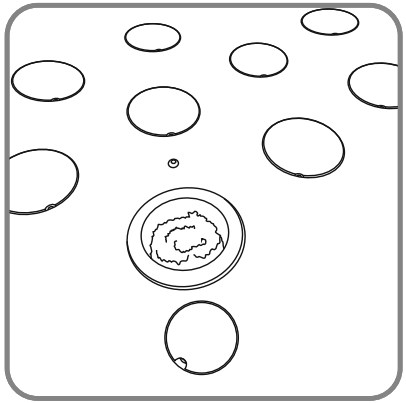


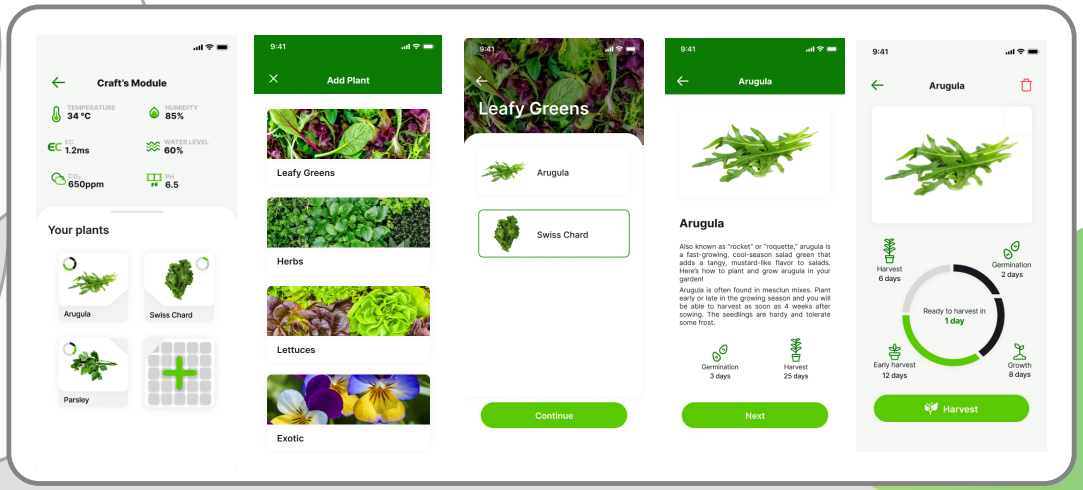


CityPods & CityMats

1. In the subscription box, you will find net CityPots or CityMats
2. On the grid (Choose the Microgreens), you can choose every empty place where you would like to add the CityPots or CityMats.

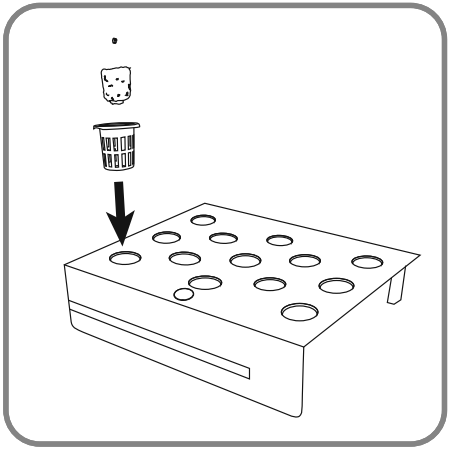


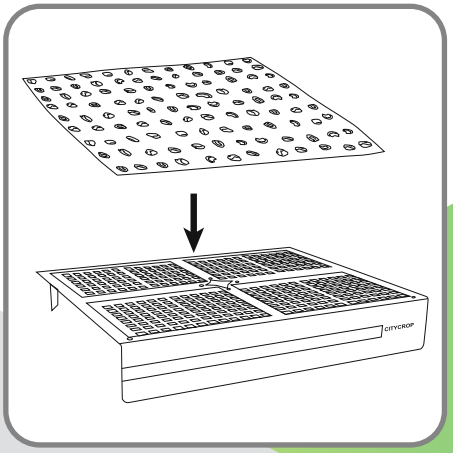




Placement of CItyPods & CityMats

1. Add the CityPots or CityMats in the same place you chosen on the app.
2. Enjoy the freshest plants available.



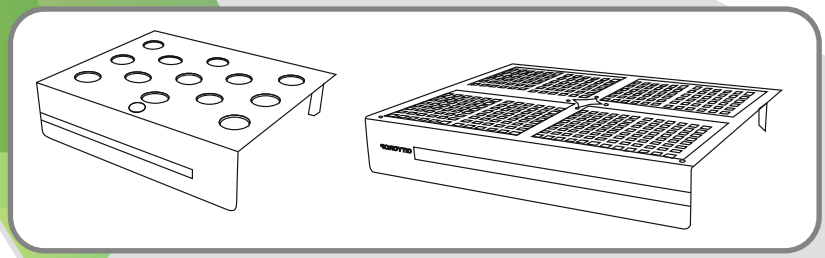


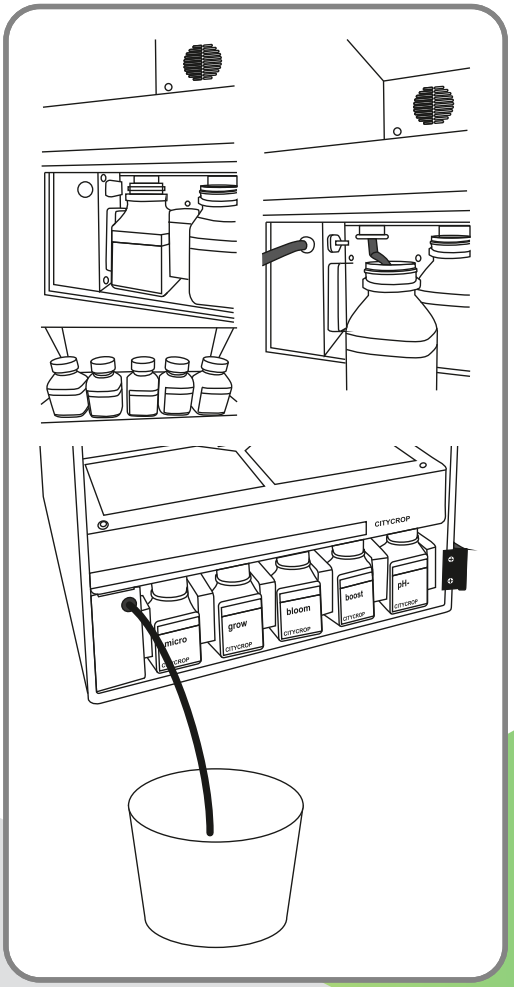
1. Empty tank:

a) Connect the drain hose (blue)
b) Remove the CC01 bottle for your help and then open the valve.
c) Continue the process through the CityCrop app.
d) Close the valve
e) Remove the drain hose.

2. Shake the Nutrients often

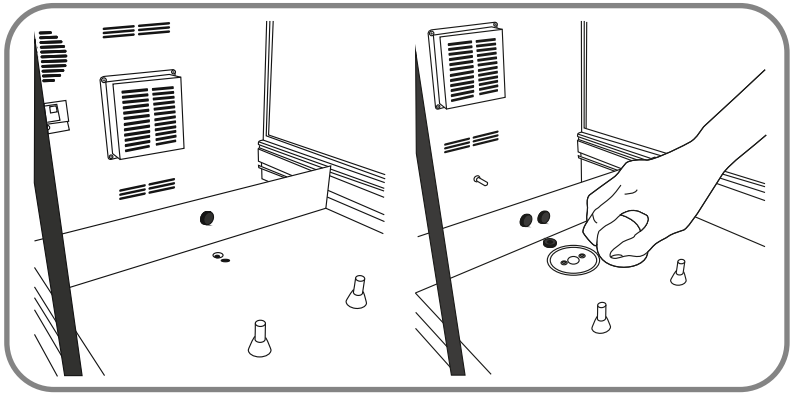
3. Clean the cultivation tray (Greens & Microgreens tray) after every cultivation with lukewarm water containing a neutral detergent using a soft sponge, a wool cloth, or a chamois rinse with water.



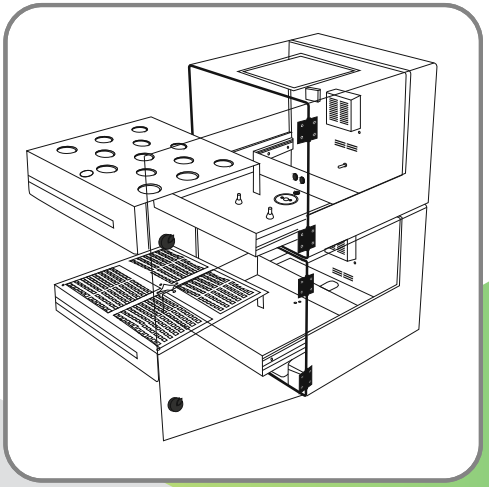


4. Clean often the drain holes from both rays

a) Slide the whole tray in full extension
b) Remove the tray and place it in a safe place and then clean the drain hole. (be careful maybe the cultivation tray has kept water in between the roots)
c) Return back the cultivation tray to its proper place.



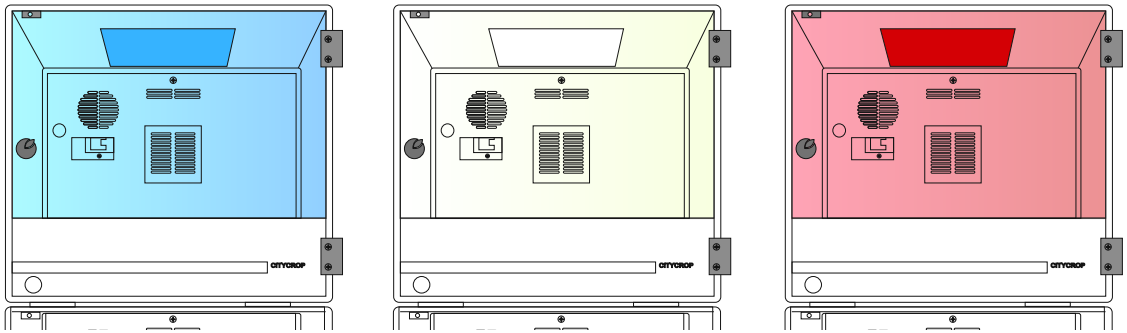
5. Clean the outer and inner sheets with lukewarm water containing a neutral detergent using a soft sponge, a wool cloth, or a chamois rinse with water.

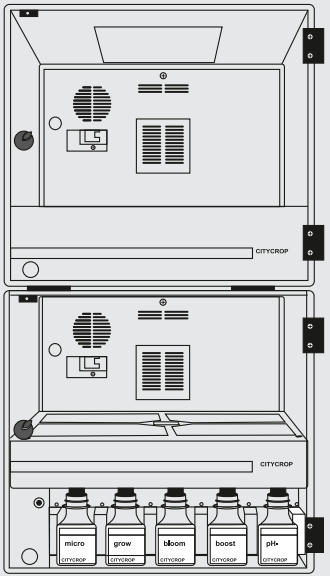


NEVER, use razor blades, scrapers, squeegees, brushes etc.

The LED light of your CityCrop devices shows the different states that your CityCrop is min.
Below can see what each color and pattern means for your CityCrop.

1. Blue: your CityCrop is ready to connect to the WiFi.
2. Blinking white: CityCrop is flashing new firmware. Firmware is the brain of your CityCrop. We will periodically push updates to your CityCrop to better your growing experience, so don't need to worry about this one.
3. Solid Red: Your CityCrop runs out of water. When you fill tank, soon the LEDs will turn orr and the LEDs will get back to purple.





CITYCROP™
AUTOMATED INDOOR FARMING

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