



GROW YOUR OWN FOOD. ANYWHERE. ANYTIME.



AEROSPRING

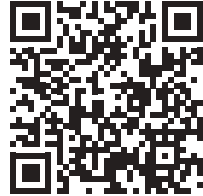
ASSEMBLY MANUAL & SET UP GUIDE



Assembly Video Guides



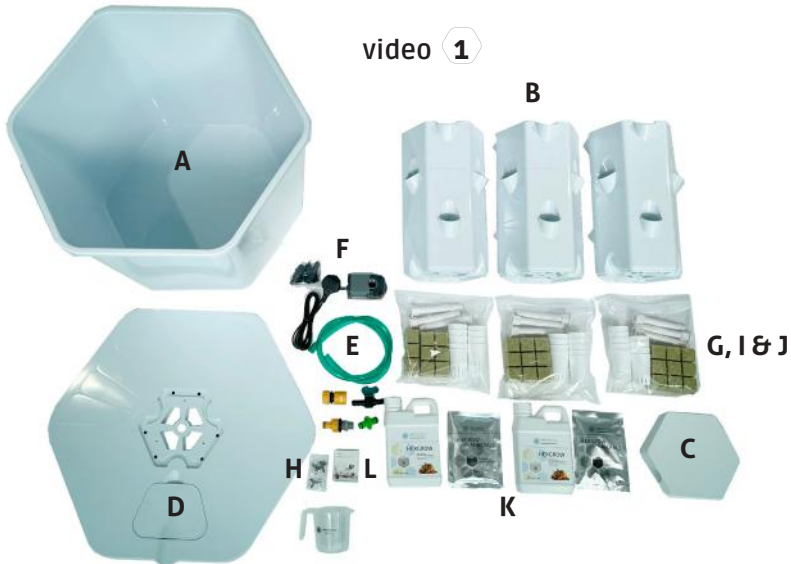
Assembly Manual
Other languages



Aerospring Facebook Group

ASSEMBLY

CONTENTS OF THE AEROSPRING



- A. 75L/20GAL HEXAGONAL BUCKET & LID
- B. 3, 9 OR 12 HEXBODY MODULES
- C. SHOWER LID WITH COVER & 1 TOP NUT (PACKED WITHIN SHOWER LID ASSEMBLY)
- D. LID ACCESS PORT
- E. 1M/3FT FOOD GRADE GREEN WATER PUMP HOSE WITH MALE & FEMALE QUICK CONNECT FITTING
- F. SUBMERSIBLE WATER PUMP
- G. 3, 9 OR 12 HEXPIPES
- H. 3 WINGNUT SCREWS & NUTS
- I. 9, 27 OR 36 PLASTIC PLANT CUPS (9 CUPS PER BAG, PACKED WITHIN MODULE STACKS)
- J. 9, 27 OR 36 GRODAN ROCKWOOL CUBES
- K. 1L HEXGROW LIQUID NUTRIENT SET WITH EMPTY BOTTLES & MEASURING CUP
- L. 1 OR 2 SMARTPLUG WIFI TIMERS



1 Place bucket in your preferred spot. If placing outdoors, ensure the area receives ample direct sunlight.

Ensure the bucket is always placed on a level surface or the Aerospring wheelbase.



2 Hold the lid with one hand and take one of the Hexbody modules in the other.

2 Grow your own food



Line up the interior crosses of lid and the Hexbody, then slot onto the lid.



LOCATE the holes (A, B & C) in the base of the Hexbody attached to the lid and insert supplied screws.



Secure the three stainless steel wing nut screws and nut underneath.



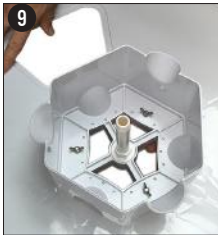
Pull the male quick connect fitting apart from the hose's female quick connect. Insert the threaded reducer connected to the male quick connect through the centre hole from the underside of the lid.



Hold inserted fitting and lid together in one hand and have a threaded pipe handy in the other.



Screw the first threaded pipe in, which secures the male quick connect fitting below with the lid.



Tighten the threaded pipe with the fitting securely. Your first Hexbody module should now be fastened tightly to the lid.



Prepare the pump by locating the nozzle to screw into water output of pump.



Insert the end of the water hose into the water pump nozzle.



Place pump in the bucket. The final position of the water pump should be slightly off centre, towards the edge of the bucket.



Lead the power cable of the water pump underneath the arched lip of the lid as you put the lid on the bucket.

Reach into access port with your hand and find water hose connected to the pump. Locate the end of the hose and click the female quick connect fitting into the male quick connect fitting on the underside of the lid. Make sure you hear it click securely.

video 2



Align the second module on top of the base Hexbody module and screw together with the lower pipe. This starts connecting the Hexbody modules so continue stacking modules and threading the pipes together until the last module. Once the thread engages and the modules are joined, don't continue tightening.

WARNING - DO NOT OVER TIGHTEN THE THREADED PIPES!

Over tightening the pipes puts undue pressure on the structure and may damage the lid. They should be finger-tight and you should be able to loosen each of the pipes without too much effort.



Fill the bucket with water through the access port as you continue to stack the Hexbody modules. If using outdoors, fill with clean tap water until almost full but leave approximately 8cm/3" buffer from the top. If using indoors, only fill the tank and complete steps 18-20 after you have completed entire indoor kit setup.

Affix the shower lid onto the final piece of the Hexbody module.



Secure the shower lid by fastening the plastic nut onto the final threaded pipe firmly, but again, **without over tightening it**.

Snap the cover onto the shower lid.

DO NOT switch the water pump on until the water bucket is filled. Once filled, ensure that the water is running through the system properly before placing seedlings into plant cup sites.



Seedlings should be germinated outside of the system, preferably indoors under a grow light or with a tabletop germination system. Ensure that the seedlings have roots emerging from their rockwool cube before placing them in the Aerospring.

Keep all plant cup sites occupied with either a plant or an empty cup. Covering the plant site with a cup prevents algae from developing inside the modules and mosquitoes from entering the system.

4 Grow your own food



18 HexGrow nutrients comprise of A & B solids. These sachets need to be poured into the corresponding empty bottles and mixed with water.



19 Add 300ml of HexGrow A to the water in the bucket.

Always add the nutrients separately into the tank.



Then add 300ml of HexGrow B to the bucket.

Mix water in the tank with a large spoon or utensil so that the nutrient solution is well dispersed.

Snap the access port onto the lid. Then switch the water pump on and start growing with your Aerospring!

ADDITIONAL ITEMS:



L. Double ended male hose connector

This accessory allows two lengths of hose that are fitted with female connectors to be joined. It allows you to drain your bucket by clicking your own hose together with the pump hose

M. Flow valve regulator

This accessory controls the flow of water from the pump. This is essential to use when stacking less than 9 modules. Cut the hose in two and insert each end of the hose into either end of the regulator. Turn the lever to adjust the flow, ensure there is enough flow to the top. Turn it up as plants grow larger.

video **3**



SETUP

WIFI SMART PLUG TIMER V.2

The WiFi smart socket acts as a timer and schedules the irrigation frequency and timing of the pump, as well as the lights for the Aerospring Indoor system. Plugging the pump plug into the smart socket allows you to control an on/off schedule from an app on your smart phone, anywhere in the world.

Scan the relevant printed QR code for your phone to install the **Smartlife** app. Follow the below instructions and recommended settings.



video 4



1



2



3



4



5

Click on "Confirm the indicator is blinking rapidly" to progress to next stage

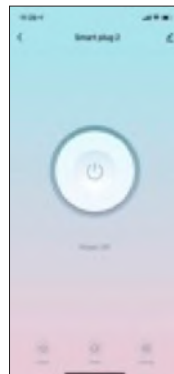


6



7

You can change the name of your smart plug by clicking on the pencil icon



8

SETUP

WIFI SMART PLUG TIMER V.2

The below settings are guideline recommendations on how to set up your Smartplug to schedule on and off durations for irrigation and lighting. You can increase or decrease settings based on your own growing conditions.

LOOP/CIRCULATE TIMER: This function is used to control the watering schedule of the Aerospring system. In the example below, the loop timer is set to run for 1 minute every 15 minutes. (See no.6).

You can opt to cease watering at night (or when grow lights are turned off for the Indoor system).

In the example below, the loop timer function is activated between 07:00 and 20:00. The loop timer is deactivated between 20:00 and 07:00. To keep the loop timer active 24 hours a day, simply set the "Start Time" and "End Time" to the same hour and minute.



HOW TO SET LOOP/CIRCULATE TIMER:

1. Select "TIMER"
2. Select "Circulate" at top of screen
3. Select "Add Circulate"
4. Set "Start Time" & "End Time" by scrolling the time wheels
5. Set which days of the week the loop timer should run (for pump irrigation, click all 7 days of the week)
6. Set the "ON" duration and "OFF" duration
(ON duration = how many min/hour to run, OFF duration= how many min/hour between the run times)
7. Select "Save"

The function below is used to control the lighting schedule of the Aerospring system. In this example, the lights are set to turn on every day at 17:00 and off at 09:00 (16 hours on, 8 hours off).



HOW TO SET SCHEDULE:

1. Select "Timer"
2. Select "Schedule" at top of screen
3. Select "Add Schedule"
4. Set "Start time" by scrolling the time wheel. Ensure that "Switch 1" is set to ON.
5. Set which days of the week the schedule timer should run (choose all 7 days of the week)
6. Ensure that "Switch 1" is set to ON
7. Select "Save"
8. Repeat steps 1-5 to set "End Time". Ensure that "Switch 1" is set to OFF.
9. Select "Save"

OUTDOOR GROWING - IRRIGATION



We recommend running the pump for 1 min every 10-20 minutes, but you should set it depending on your climate and temperature.

The timer has 3 parameters to set -

1. When to start and stop the loop timer:
Set a time to start when pump should switch on and off. Schedule the timing to run from sunrise to sunset.
2. Days to activate: Set to run every day of the week.
3. Loop timer setting
Set it to run for 1 min (turning on duration), every 10-20 minutes (turning off duration).
10 minute intervals = full sun exposure
20 min intervals = partial sun exposure
(if in doubt = every 10 min)

INDOOR GROWING - IRRIGATION



We recommend running the pump for 1 min every 40 minutes, but you should set it depending on your ambient room temperature.

The timer has 3 parameters to set -

1. When to start and stop the loop timer:
Set a time to start when pump should switch on and off. Schedule the timing to run while grow lights are on.
2. Days to activate: Set it to run every day of the week.
3. Loop timer setting:
Set it to run for 1 min (turning on duration), every 40 minutes (turning off duration).

INDOOR GROWING - LIGHTING



We recommend programming the lights to be on for 16-18 hours a day.

The timer has 2 parameters to set -

1. When to start and stop the lighting schedule:
Set a time to start when grow lights should turn on and when lights should turn off. You can program this for any time of the day, as long as it operates for 16-18 hours.
2. Days to activate: Set it to run every day of the week.
3. Switch 1 "ON" - What time the lights should turn on
Switch 1 "OFF" - What time lights should turn off
Ensure that there are two settings in the "Schedule" menu after completing setup.

AEROSPRING INDOOR KIT



White aluminium powder coated wheelbase



4 x caster wheels



16 sets stainless steel screws, washers and nuts with mini tools



6 long screws with washers and nuts



Bottom frame in three parts



Top frame in three parts



200 mm quiet exhaust fan



Power supply for fan with interchangeable country plugs



2 x large, 2 x medium & 1 small roll velcro ties



6 x 40cm fibreglass rods



18 x frame rods
12 x double ended male (type MM)
6 x double ended female rods (type FF)



1 x grow tent with 13 zippers (grey/black)
1 apron cover



1 x 150W power supply for LED bars



Input cable for LED driver with waterproof connector



6 x patented tri-band LED bars



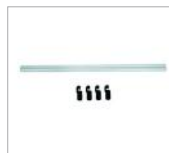
1 x cable harness for LED lights



24 pipe clips with metal attachments for LED lights



2 x WiFi timers for LED and pump (UK/EU/US)



2 x horizontal cross bars for tent roof frame with plastic attachments



Digital Thermometer & Hygrometer

ASSEMBLY

AEROSPRING INDOOR KIT

STEP 1 - ASSEMBLE WHEELBASE



Place the wheelbase on a table with the bottom side facing upwards. Position each of the caster wheels to align with the 4 pre-drilled holes. Place the lockable caster wheels on the straight side of the wheelbase.



Insert one of the 16 stainless steel screws through the pre-drilled holes from the underside of the wheelbase plate.



Hold the screw in position with your finger on the underside of the wheelbase plate, then place the washer on the screw and begin to tighten the nut until finger tight.



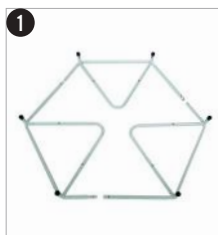
Repeat this process for all 16 screws.



Flip the wheelbase over so it rests on the wheels.

Locate the provided Allen key with spanner and fasten each screw tightly.

STEP 2 - ASSEMBLE FRAME



Assemble the bottom frame first. Connect the three frame pieces together into a hexagonal shape until the lock pins engage.

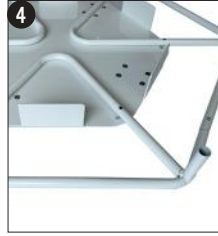


Do not assemble the top frame yet. It is easier to install the top frame in 3 sections, only connect the parts after the 3 top frame parts are connected to the vertical rods.

10 Grow your own food



3 Place the bottom frame parts on top of the assembled wheelbase. Align the holes of the bottom frame to the holes on each corner of the wheelbase.



4 Ensure that the 6 vertical struts are facing upwards.



5 Locate the 6 long screws and matching lock nuts in picture. Insert the screws through the frame and wheelbase holes (top to bottom) and thread the washer & lock nut from below.



6 Repeat for all 6 corners. Use the spanner and Allen key to tighten each screw securely.



7 Place the assembled Aerospring Garden on the wheelbase. Locate the 12 frame rods of type MM and insert 6 of these into the vertical struts.



8 Ensure the lock pin is engaged for each inserted rod. Push the pin in and twist the rod until the hole and lock pin are aligned. Repeat for all 6 corners.



9 Locate the 6 rods of type FF. Insert the FF type rod into the previously installed rods and struts (main structure).



10 Finish by inserting the last 6 rods of type MM into the FF rods.



11 Attach top frame and secure the structure: Carefully place one third of the top frame into 2 of the 6 vertical rods, inserting each upward facing rod into the corresponding downward facing strut on the frame.



12 Once all top frames are secured into the vertical struts, click them together until pins lock.

video **5**



13 Affix horizontal roof bars: Locate the 2 roof bars and their 4 plastic hook attachments. The plastic hooks slide onto both ends of the bars as pictured.



14 The horizontal bars and plastic attachments should be affixed to the top frame with approx. 20cm spacing traversing from one side of the completed top frame to the other. The frame is now complete. :)

STEP 3 - INSTALL LED POWER SUPPLY



1 Locate the two long velcro ties. Position the power supply upright to the frame as pictured, through two velcro tie loops and flush to the horizontal and vertical bars of the frame.



2 There is a simple extension on the power supply frame to help you achieve this. The velcro ties should then be tightened when properly positioned.



3 The power supply has two connectors, a 2 pin and a 3 pin. The 3 pin connector connects to your country specific input power cable.



4 Ensure that the 2 pin connector is on top and leads upwards as pictured.



5 Locate the input cable for the LED driver. It should connect with the 3 pin connector on the LED driver, ensure that they match.



6 Push the two ends of the cable into each other and then thread the middle lock ring until tight to secure the connection. Do not twist the two joins, only rotate over the ring.

video 6

STEP 4 - INSTALL FAN



1 Position the fan and snap pipe clips onto the horizontal top bars in the centre as pictured.

video [7](#)

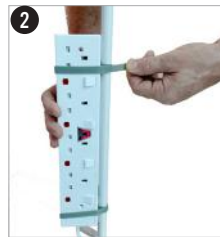


2 Make sure the fan power lead is hung over the top frame as shown in the picture.

STEP 5 - AFFIX POWER STRIP (NOT INCLUDED)



1 We recommend installing a power strip with a minimum of 3 plugs (not included in box) to neatly arrange the electrical wires and timers inside of the tent.



2 Using 2 medium velcro ties, attach the power strip to one of the vertical bars on the frame.



3 **Power supply for circulation fan:**
Locate the black power supply and affix the correct country plug type to it. Plug directly into power strip (fan is always on).



4 Connect cable to fan & lead the cable along one of the 6 corners of the frame.



5 Locate the small velcro tie and cut a strip to desired length. These will be used to secure the cable to the vertical frame.



6 Attach one velcro tie at the top where it is connected to the fan, and one at the bottom just above the power strip.



7 Plug the two WiFi timers into the two other sockets of the power strip. Each of these timers regulate the pump and light schedule.



8 Plug the pump and LED light power cables into each of the timers. To set up WiFi smart plug timers, refer to the manual in product box.

STEP 6 - INSTALL GROW TENT



1 Locate the grow tent and find the corner that has a zip which runs the full length of the tent. Completely unzip this zip. Do not unzip any other panels at this point.



2 Pull the tent over the frame much like you would put on a jacket as pictured. Enrol the help of someone as you drape and fit the tent over the frame.

video 8



3 Ensure the long zipper is aligned with the vertical bar where you have affixed the power strip.



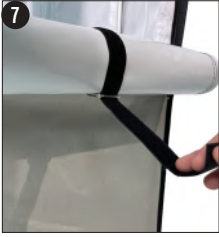
4 Tuck the flaps of the grow tent under the bottom bars of the frame and adjust the tent so it fits tightly and snugly to the frame.



5 Once the grow tent fits snug, pull the corner zip down to the full length of the structure.



6 Unzip all the tent windows, roll them down with the white side out and secure the rolls with the velcro strip through the metal square clip.



Secure the rolls with the velcro strip through the metal square clip as pictured.

Adjust the position of the rolls by pulling up in the zippers at the side a little.



Tightly wrap each of the vertical rods of the tent structure with the built-in velcro strips as pictured. The velcro has been split into 4 sections to make it easier to attach the LED bars. Repeat for all 6 corners.

STEP 7 - INSTALL GROW LIGHTS

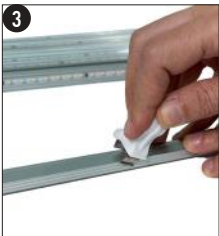


Locate the white cable harness with the six T connectors (16).



Insert the two pin connector from the LED power supply to the corresponding connector on the white cable harness. Secure the connector by turning the lock ring.

video 9



Affix the LED lights: Locate the 6 LED light bars and corresponding pipe clips. Attach 2 clips near the end of each light bar.

video 10



The LED lights can now be affixed to the vertical bars by attaching the pipe clip to the space between the velcro strips.



Repeat the process for all 6 LED light bars. Once complete, connect the white cable harness to its corresponding connector on the LED light bar.



You will notice a notch and groove on the male and female connectors. Align the two and push together.

video 11



7 Secure the lock ring by serving down over the two connectors.

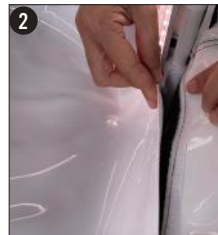


8 Repeat this process for all 6 LED light bars.

STEP 8 - FIX APRON & FAN



1 Finalise the installation by placing the apron on top of the bucket lid, ensuring that the access port opening is aligned with the cut out in the apron.



2 Attach the velcro strips on the underside of the apron to the interior of the tent along all 6 sides. The apron helps catch fallen leaves and makes it easy to keep tidy.



3 You may need to adjust the position of the fan by sliding it along the roof bars until centred through the chimney.



4 Carefully ease the roof vent of the tent around the side of the fan until it sits flush with the bottom off the fan (or top of the clips) as pictured.



5 Ensure that the fan pops through the chimney. Pull the chimney fabric upright and wrap around fan.



6 Locate holes on the exterior velcro trim at the top of the grow tent. Insert the fibreglass rod in all the way to stiffen the velcro panel. Repeat for all 6 panels.

video **12**

WATER CHANGE



- Switch pump off at the mains.
- Reach into access port with your hand & unclick the quick connect fitting and hose connecting the water pump to the underside of the Hexmodule lid.
- Lead the 1 meter hose still attached to water pump out of access port. If the hose has enough reach to a drain or grass, you can empty the water directly, otherwise use the green double ended male adaptor to click your own hose on.
- Ensure the hose is pointing away from you before restarting the pump.
- Switch pump on. The remaining nutrients in the water can be recycled for your soil based plants as well.
- Switch the pump off again before bucket completely drains out. A little left over water in the bucket is fine.
- Refill the bucket
- Pull the water pump out through the access port and give it an inspection internally after opening the front cover.
- Check for any roots or debris in or around the impeller shaft and intake vents. Inspect the integrity of the impeller - follow Sicce manual. Place the water pump back into the bucket after inspection.
- Reach through the access port and guide the hose back to the underside of the lid's male quick connect. Click it securely in place.
- Reach back into the water and ensure the pump is standing upright on its suction cups. Switch the pump back on and make sure that water flows up through the system.
- If everything is in order, dose the bucket with 350ml of A & B Hexgrow solution each separately from month 2 onwards. Mix the water and nutrients well in the bucket, use a plastic utensil to stir the tank.
- Drop another Bti Mosquito Dunk into the bucket (optional). Close the access port.
- Grow on!

video **13**

PRODUCT SPECS



Tent

Material: Oxford D600 Is a woven 100% polyester oxford fabric. It's finished with a durable water repellent and then laminated with a highly reflective PVC coating on the back. 185cm tall, 85cm wide, 6 zip able side panels, 1x180cm zipper for easy installation.

LED Driver

1 x 150W driver for lights. CE, RoHS & ETL certified.
85 volt - 256 Volt 50 HZ - 60 HZ

Lights

ENGINEERED FOR PLANT PRODUCTION

Triple-Band LEDs have been tested with great improvement in growth rate and yield.

Triple-Band LEDs use up to 57% less energy than leading high-output T5 fluorescent horticultural lamps and emit a more balanced PAR. Low heat signature means no burning of leaves even in close proximity to the canopy. Additionally, the energy-saving generates less heat in the growing environment and further savings in HVAC cost.

