How-to Guide

Welcome to Les Verts Living!

Thank you for joining our growing community of home gardeners and grassroots growers. We're so excited to grow with you!

At Les Verts, we're on a mission to empower anyone anywhere to grow fresh quality food for their family, friends and local communities.

This trusty guide includes everything you need to know to get your **Les Verts Terrace™ Indoor Garden** system up and running. The Set-Up section covers assembly and basic electrical and plumbing set-up. The Start-Up section includes how to set your timers and fill your Reservoir with nutrient solution. The Cleaning section covers the steps involved in a periodic cleaning of your garden system.

Once you have your system up and running, refer to your **Grow Guide** to start your growing journey.

Your **Les Verts Terrace™ Indoor Garden** was designed and built right here in Canada. We're a team of grassroots growers that developed our **Les Verts GrowHow™** over 6 years and continue to expand our expertise so we can share our knowledge with you.

We've designed our systems and guides so you will be successful with every planting. If you ever have any questions or need support, please contact us at growhow@lesverts.com and we'll be happy to help!

Happy growing!

Sincerely,

The Les Verts Living team





LES VERTS LIVING™

PLANT • NOURISH • THRIVE

© 2024 Les Verts Living Inc. ***Les Verts Living™*** *and* ***Les Verts Terrace™*** *are trademarks of Les Verts Living Inc.*

Important Safety Instructions

Read all instructions before setting up, moving or operating your Les Verts Terrace™ Indoor Garden.

1. **Health and safety regulations vary by jurisdiction.**
   Prior to installation, the operator must be aware of and must adhere to all local and state/provincial codes, including proper installation, plumbing and electrical hookup, as well as any health certificates that may be required when growing food in your establishment. Les Verts Living assumes no responsibility for improper installation or use of this product or failure to adhere to local regulations.

2. **The customer assumes full responsibility for the safe handling of food grown in the unit, for personal or commercial consumption.**
   Les Verts assumes no responsibility for the use of your unit for personal or commercial purposes, including the growing of food for sale or distribution. Les Verts assumes no responsibility for any foodborne illnesses related to mishandling or a failure to keep your unit clean.

3. **Unplug your unit from power before proceeding with any cleaning, maintenance, repair, assembly or disassembly.**

4. **When fully operational, the unit contains 45 litres of water. Ensure your unit is free of leaks and is draining properly into the reservoir.**
   Les Verts assumes no responsibility for damage to the unit or any surrounding environment due to water damage from leaks and/or spills.

5. **Do not operate or touch any of the electronics or power cord with wet hands.**

6. **If an electronic part gets wet, immediately unplug your unit and ensure the part is thoroughly dry before continuing use.**

7. **If any leaks occur, unplug your unit and contact support@lesverts.com.**

8. **Do not use the Smart Power Bar for any other devices unless recommended by Les Verts.**

9. **Only connect your unit to a dedicated grounded electrical outlet rated for use with this product (115 V, 60 Hz, AC only).**
   It is the user's responsibility to ensure the wall outlet is properly wired and grounded, and to replace a standard 2-prong wall outlet with a standard 3-prong wall outlet if necessary.

10. **The unit draws under 3 amps of electricity.**
    It is the user's responsibility to ensure the unit is connected to an outlet that is not overloaded and that has an appropriately sized breaker.

11. **Do not use an uncertified power outlet. Do not plug appliance into a damaged wall outlet.**

12. **Never unplug a power cord by pulling on it.**
    Always grip the plug firmly and pull straight out from the outlet. Failure to do so may damage the power cord, resulting in a risk of fire and electric shock.

13. **Never attempt to operate your unit if it is damaged, malfunctioning, partially disassembled, or has missing or broken parts, including a damaged cord or plug.**

14. **Protect the power cord from being walked on, pinched, bent sharply, or damaged by heavy objects.**
    Keep the power cord away from other sources of heat. Keep power cord away from walkways where it might become a trip hazard. Always check for damage to the cord after moving your unit. If any damages are found, please contact **support@lesverts.com** for replacement parts.

15. **Do not modify or extend the power cord.**
    Do not, under any circumstances, cut or remove the third (ground) prong from the power cord.

16. **If your unit has been damaged or is not working as intended, refer all servicing to qualified service personnel.**
    Failure to heed this warning may result in severe electric shock.

17. **Do not place heavy or fragile objects, liquid filled containers, combustible substances, or flammable objects (such as candles and lamps) in or on your unit.**

18. **Keep the Lights clear of any objects, including plants.**
    Prune plants to ensure they do not grow into the Lights. Ensure anything close to the lights is not getting hot and at risk of fire.

Important Safety Instructions CONT.

19. **Do not place or install your unit outdoors; only use in indoor spaces with ideal conditions of 18-24 °C and up to 80% RH.**
    Use of the unit outside of a controlled environment increases the risk of pests, equipment failure, and food sanitation issues.

20. **Do not place any persons or animals inside the unit.**
    Do not allow children or pets to climb on the unit. Children and pets should be supervised so they do not interfere with the safe operation of your unit.

21. **Keep any packaging materials out of the reach of children.**
    Packaging material can be dangerous for children. There is a risk of suffocation.

22. **Keep all substances, including Greens Growth Formula and Citric Down, out of the reach of children and pets.**

23. **Do not install your unit where there may be a danger of the unit falling.**

24. **Use lifting aids and proper lifting techniques when moving your unit.**
    Do not lift or push the unit by the Grow Shelves. Unlock front Caster Wheels and raise Levelling Feet prior to moving.

25. **Your unit must be placed on hard, level surface.**
    Make sure installation surface can support the operational weight of the unit.

26. **Do not push your unit on a surface that has more than a 10 degree incline.**

27. **Heavy object. Take care when unloading the boxes upon delivery.**
    When assembling or disassembling the unit, two people are required. Do not attempt to move with one person. Les Verts assumes no responsibility for improper assembly/disassembly of the unit.

28. **Take care when using knives or sharp objects when unpacking the unit and parts, both for personal safety and to avoid damaging the equipment.**

29. **The unit is designed to be operated as detailed in this manual. Any use outside of the recommended methods and/or replacement of components with third party parts will void the warranty.**
    Les Verts takes no responsibility for issues arising from operations differing from as described here within.

Set-Up Guide

Your **Les Verts Terrace™ Indoor Garden** comes partially assembled. To ensure your Les Verts Terrace™ is ready for use, follow these important set-up instructions prior to starting your growing journey. We recommend two people for assembly.

Box 1:

1A. Base
1B. Reservoir
1C. Reservoir Lid

Package Containing

1D. Pump *(with green hose attached)*
1E. Supply Line
1F. Smart Power Bar
1G. GFCI
1H. 4 x Caster Wheels *(incl. 2 with brakes)*
1I. 2 x Levelling Feet
1J. 4 x Nuts
1K. 2 x Hex Bolts
1L. 2 x Machine Screws
1M. Wrench
1N. Hex Key
1O. Velcro Cable Ties
Parts Manuals

Box 2:

2A. Base Frame
2B. Mounting Brackets

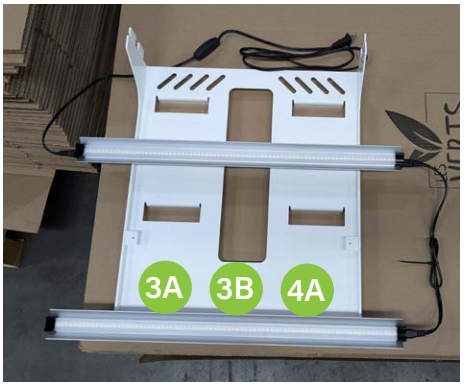
Box 3:

3A. Shelf Bracket *(without lights)*
3B. Shelf Bracket *(with 2 light bars)*
3C. Level 1 Grow Shelf
3D. Drain Fitting
3E. Drain Stand
3F. Yellow Drain Hose *(with Hose Clamp)*

Box 4:

4A. Shelf Bracket *(with 2 light bars)*
4B. Level 2 Grow Shelf *(with green hose attached)*
4C. Drain Fitting
4D. Drain Stand
4E. White Drain Hose *(with Hose Clamp)*
4F. Top Shelf

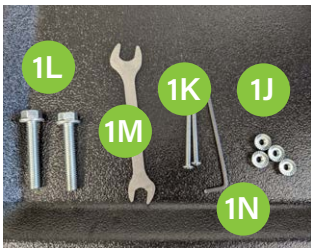


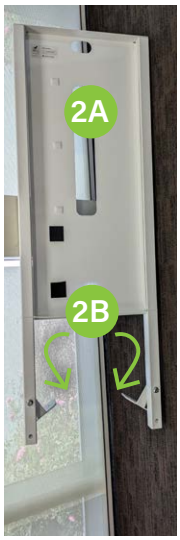
























What You'll Need *(not included)*:

- Pliers *(tongue and groove work best)*
- Rag
- Towel
- Small hose or bucket
- Dish soap *(optional)*

Assembly and Set-Up Guide

Two people are required for this section.

1. Upon Delivery

a. Refer to the number on each box and familiarize with all parts. During set-up, you will need to have access to the front and back of the unit.

2. Box 1: Base & Reservoir Assembly

a. Unstrap and remove the Reservoir and Reservoir Lid from the Base and set aside. Remove the package from the Reservoir and familiarize with all parts inside.

b. Remove the Base from the box *(two people required)* and tip on its side to screw on the Caster Wheels and Levelling Feet. It is best to lift the unit from the side and to support the door while lifting. The two Caster Wheels with locks should be placed at the front of the unit.



c. Once the Caster Wheels and Levelling Feet are installed, place the Base on the floor and engage the two Caster Wheel locks by pushing down on the locks with your hand or foot.

3. Box 2: Frame Assembly

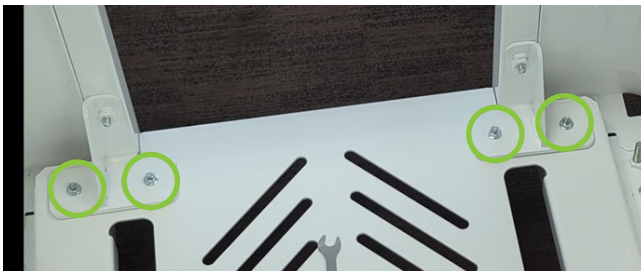
a. Before removing the Back Frame from the box, note that it is held together with plastic cable ties for shipping and ease of assembly. When removing the Back Frame from the box, ensure that you hold the pieces together. Do NOT lift from one of the posts or the cable ties may snap off. Carefully remove the Back Frame from the box and orient the two Mounting Brackets for attachment *(two people required)*.



b. Position the Back Frame behind the Base and lift into place, with the Mounting Brackets aligning with the 4 bolts attached to the Base. Note: It may be necessary to push the walls of the Base out slightly to get the Back Frame to fit.

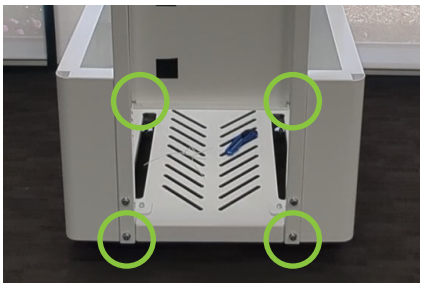


c. Loosely install 4 Nuts onto the 4 bolts attached to the Base with the Mounting Bracket in between – this will hold the Back Frame in place for the next steps.



d. Cut the cable ties and loosely install the 2 Machine Screws at the back side of the Back Frame. Do not tighten the Machine Screws all the way just yet. It may be necessary to lift and/or lean the pieces to get the holes oriented correctly.

e. Insert 2 Hex Bolts through the back side of the Back Frame into the Base. Do not tighten the Bolts all the way just yet.



f. Fully tighten all screws, bolts and nuts, including the two that came pre-installed at the top of the Mounting Bracket.

TROUBLESHOOTING: You may need to flex the metal pieces that make up the Base to properly insert the Back Frame and align the holes for the various screws and bolts. This is normal. If you are having difficulties, please reach out to us at support@growhow.com.

Assembly and Set-Up Guide CONT.

4. Box 3: Shelf Assembly

a. Wipe down the Reservoir and the Level 1 Grow Shelf with a wet rag *(and dish soap if you wish)* to remove any dirt or debris that may have accumulated during manufacturing.

b. Place the Reservoir, with the Pump inside and Reservoir Lid on top, into the Base, with the yellow caution sticker facing frontwards. Push the Reservoir as far back on the base as it will go.



c. Insert the Shelf Bracket *(without lights)* into lowest shelving slots, ensuring that the bracket is fully secure at the bottom of each slot.

d. Run water through the Yellow Drain Hose to clear of any potential debrris, then insert the Yellow Drain Hose all the way into the Drain Fitting from the bottom of the Level 1 Grow Shelf and tighten the attached Hose Clamp with pliers.



e. Place the Level 1 Grow Shelf *(with Yellow Drain Hose now attached)* onto the Shelf Bracket, ensuring that the Yellow Drain Hose is directed into the Reservoir in the Base as you're placing the Grow Shelf. The Grow Shelf should fit snug onto the Shelf Bracket with the edges of the Grow Shelf aligning with the front and sides of the Base.

IMPORTANT: Always ensure that the Yellow Drain Hose is directed inside the Reservoir when operating the system. Failure to do so may result in flooding.

f. Insert the Shelf Bracket *(with lights)* into the middle shelving slots. The top hook of the Shelf Bracket should line up with the stamped location on the Back Frame.



5. Box 4: Shelf Assembly

a. Wipe down the Level 2 Grow Shelf with a wet rag *(and dish soap if you wish)*. Run water through the White Drain Hose to clear of any potential debris, then insert the White Drain Hose all the way into the Drain Fitting from the bottom of the shelf and tighten the attached Hose Clamp with pliers.

b. Place the Level 2 Grow Shelf *(with White Drain Hose now attached)* onto the middle Shelf Bracket that was just installed, ensuring that the White Drain Hose flows into the Level 1 Grow Shelf below. The Grow Shelf should fit snug onto the Shelf Bracket and the White Drain Hose should hang beside the Level 1 Drain Stand and not on top of it.



c. Insert the remaining Shelf Bracket *(with lights)* into the topmost shelving slots. Feed the light cords into the slot at the top of the Back Frame.

d. Wipe down the Top Shelf with a wet rag *(and dish soap if you wish)*. Place the Top Shelf onto the top Shelf Bracket.

***NOTE:** To install in any of the unmarked slots for a custom shelf height, please contact us at support@lesverts.com for instructions.*

Assembly and Set-Up Guide CONT.

6. Moving your Fully Assembled Unit

a. To move the unit, first ensure that the Smart Power Bar is unplugged from the wall, the front Caster Wheels are unlocked, and the Levelling Feet are raised.

b. Put one hand on the Back Frame and the other hand on the corner of any of the Shelf Brackets. This can be done by reaching under the Grow Shelf to find the metal corner of the Shelf Bracket. Do NOT push on the lights or the black Shelves to move the unit.

c. Once in your desired location, always lock the front Caster Wheels and lower the Levelling Feet.

CAUTION: Tipping Hazard. Raise Leveling Feet and unlock the brakes on the front Caster Wheels prior to moving.

7. Lights Assembly and Electrical Check & Set-Up

a. Check all of the wires *(Lights, Smart Power Bar, Pump)* to ensure there was no damage during shipping.

b. Plug the GFCI into your wall outlet and press the reset button.

c. Attach the Smart Power Bar to the two lowest Velcro pads on the back of the unit.

d. Without plugging anything into the Smart Power Bar, plug the Smart Power Bar into the GFCI and press the reset button on the Smart Power Bar. This should turn all the outlets on and you should see a small blue light by each outlet.

e. Route the Light cords through the slots in the Back Frame. Connect the Lights to the Smart Power Bar and flip the light switches to ensure they turn on, then unplug the Lights again. Use the provided Velcro Cable Ties to tidy up the cords and keep them hidden from view.



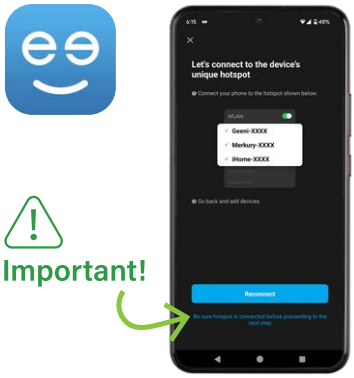
f. Set up your Smart Power Bar.

i. Go to the app store on your phone or tablet and download the free Geeni App. Follow the setup instructions included in the Geeni manual. Some additional helpful tips are below.

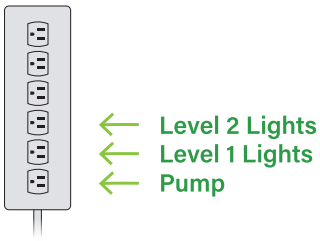
ii. In the app, click Add Device. You can add the device manually by selecting Smart Power.

iii. If you have a dedicated 2.4GHz Wi-Fi network, use the easy mode (fast blinking) setup procedure.

iv. If you have a singular Wi-Fi network, it is easiest if you use the AP device (slow blinking) setup procedure. For the last step of the AP setup, ensure that you are connected to the device's hotspot and then click on the blue text underneath the "Reconnect" button.



v. Select the device *(e.g., Smart Power Strip)* and you should see an image of your Smart Power Bar displayed. We recommend you label each outlet as shown below and plug in the corresponding device. Tap an outlet to turn that device on and off. Click on the clock near the top of the power bar graphic to set a schedule for each outlet.



vi. Unplug the Smart Power Bar.

SMART POWER BAR TROUBLESHOOTING:

Here are some tips to resolve potential issues with your Smart Power Bar (for example, if your lights do not turn off as programmed).

- *Ensure you have a strong and stable Wi-Fi connection to your Smart Power Bar.*
- *Delete and re-program your time setpoints.*
- *If issues persist, delete your device from the Smart Power Bar and re-install.*
- *If issues persist, change your time programs so there is a 5-minute gap between anything that turns on/off at the same time.*
- *If issues persist, contact the manufacturer as per the Smart Power Bar instruction manual provided with your system.*

***NOTE:** If your Wi-Fi becomes disconnected, the plugs will remain in their last active state.*

Assembly and Set-Up Guide CONT.

8. Plumbing Assembly & Check

a. Run water through the green Supply Line to clear of any potential debris, then connect the Supply Line to the green hose attached to the Pump. Push the other end of the Supply Line into the Quick Connect on the Level 2 Grow Shelf until it can't go in any further, then pull out slightly to lock the hose in place.




b. Visually check all plumbing fittings to ensure there is no visible damage.

c. Have a towel nearby to catch any drips before proceeding with the following step. Make sure the Smart Power Bar is unplugged. Ensure that the Reservoir is sitting as far back in the Base as possible and that the Yellow Drain Hose is directed straight down into the Reservoir and not at an angle when the system is being operated.

IMPORTANT: Always ensure that the Yellow Drain Hose is directed inside the Reservoir when operating the system. Failure to do so may result in flooding.

d. Fill the Reservoir with about 15 litres of water *(about ⅓ of the Reservoir)* using a hose, bucket or watering can.

e. At the back of the unit, plug in the Pump to the Smart Power Bar and plug the Smart Power Bar into the GFCI in your wall outlet. Let it run for 5 seconds to make sure the Pump is working and starting to pump water into the Level 2 Grow Shelf. Check for any leaks throughout the plumbing. If all is well, continue to run the pump.

f. Check that the Grow Shelves start to drain once they reach the setting of the Drain Fitting, approximately 0.5" above the base of each Grow Shelf, as measured from the top of the ridges near the back of the Grow Shelf. If the water level is too high or too low, you can lower or raise the Drain Stand (leaving the Drain Fitting in place) to adjust as needed. Once the water height is confirmed and the water starts to drain, unplug the Pump.




g. Follow the steps in Section 6 to safely move your unit into place, lock the front Caster Wheels and lower the Levelling Feet.

Should you have any questions during assembly, please contact us at support@lesverts.com.

Your Les Verts Terrace™ Indoor Garden is now ready for Start-Up!

Disassembly (If Necessary)

Two people are required for this section. You will need two plastic cable ties (not included) for this section.

***NOTE:** To fully remove the shelves, the power and plumbing connections must be disconnected.*

1. Unplug the Smart Power Bar from the wall outlet and remove all plug connections from the Smart Power Bark.
2. Remove the Light cords from their Velcro Cable Ties locations on the back of the unit.
3. Disconnect the Supply Line using the Quick Connect on the Level 2 Grow Shelf by pushing the hose in, then remove the hose while holding the Quick Connect ring against the base.
4. Once the plumbing and power connections are removed, the Grow Shelves can be removed from the Shelf Brackets.

   When lifting off a Grow Shelf, you may need to help guide the Drainage Hose through the Shelf Bracket.
5. Once a Grow Shelf is removed, the Shelf Bracket can be removed from the slots in the Back Frame by lifting up, then out.

   Take note that the wiring for the Lights are hidden and affixed to the Shelf Bracket under the Grow Shelf. Before removing the Shelf Bracket, ensure that the cords will not be stuck on anything during removal.
6. With the Grow Shelves and Shelf Brackets removed, the Back Frame can now be removed from the Base.

   Remove the 2 Hex Bolts from the back side of the Back Frame that attach into the Base.
7. Remove the 2 Machine Screws from the back side of the Back Frame that attach into the side of the Base.
8. Remove the 4 nuts from the Mounting Bracket that will allow you to separate the Back Frame from the Base.
9. Before lifting the Back Frame off the base, use plastic cable ties to attach the centre piece of the Back Frame to the two posts to prevent the centre piece from swinging.

   Ensure that you hold the pieces of the Back Frame together as you lift and never lift the Back Frame by only one of its posts.

Start-Up Guide

Now you're ready to prepare your **Les Verts Terrace™ Indoor Garden** for growing. For optimal results, we recommend placing your garden in an indoor space with a temperature between 18-24 °C and relative humidity of 50-80%.

What You'll Need

(included in your hydroponic accessories kit):



What You'll Need

(not included):

- Hose, bucket or watering can
- Latex gloves (optional)
- Tablespoon measure

1. Set your timers using the app for your Smart Power Bar

a. Lights: We recommend setting your light schedule to 13 hours on and 11 hours off each day to optimize the output of your plants. You can schedule your lights to come on at any time of day, including overnight. Note that overnight is not recommended if your indoor garden gets a lot of sun exposure as plants prefer some dark time.



b. Pump: We recommend setting your pump schedule for 10 minutes, twice each day. Run the first cycle early in your light schedule, and the second cycle late in your light schedule.

***NOTE:** If you have a manual timer, you can set your pump schedule for 15 minutes each cycle.*

2. Fill your Reservoir with Nutrient Solution

Optional: You may choose to wear latex gloves when handling Greens Growth Formula:

Les Verts' Greens Growth Formula is a highly water-soluble plant nutrition package custom designed for hydroponic production of leafy greens and other fruiting crops. When used with Citric Down to optimize nutrient solution pH, your plants will receive all the nutrients they need to grow and thrive.

a. Fill your Reservoir with water to 5cm from the top, using a hose, bucket or watering can. You can move the Reservoir closer to the front of the Base to make it easier to fill but note that you will need to push it back once full.

b. From your Greens Growth Formula Nutrient Kit, add the following amounts in this order:

i. Add **1.5 Tablespoons (or 21 grams) of Part A** and let completely dissolve in your Reservoir.

ii. Add **3 Tablespoons (or 52 grams) of Part B** and let completely dissolve in your Reservoir.

c. Add **90mL of Citric Down** to your Reservoir.

***NOTE:** The optimal pH range is 5.5 to 6.5. The above recommendations are based on an average base level EC and pH for most potable water sources in Canada. For more accurate readings, pH strips are included in your Accessories Kit. Strips can be used to accurately measure the pH range of your nutrient solution. For pH readings above 6.5, add 20mL of Citric Down for every 0.5 adjustment of pH required.*

Les Verts offers professional meters and devices that are used by growers to fine-tune their nutrient solution parameters and maximize nutrient efficiency and plant performance. Contact us at growhow@lesverts.com for information about our EC, pH and temperature meters.

d. Before operating the system, ensure that the Yellow Drain Hose is directed inside the Reservoir from the bottom of the Level 1 Grow Shelf. The Reservoir should sit as far back in the Base as possible to ensure the Yellow Drain hose is directed straight down and not at an angle when the system is being operated.

IMPORTANT: Always ensure that the Yellow Drain Hose is directed inside the Reservoir when operating the system. Failure to do so may result in flooding.

Note that as your plants start to grow and take in nutrients and water from the system, you will need to add water, nutrients and Citric Down on a weekly basis. See your Grow Guide for details.

You are now ready to start planting! See your Grow Guide for details.

Cleaning Guide

We recommend cleaning out your system about once every 4 months. You should allow around 1 hour to do this. Repeat this process as necessary.

What You'll Need

(not included):

- Household bleach
- Latex gloves
- Soft scrub brush
- Rag or paper towel

1. Using your app, shut off the lights and ensure the Pump is not scheduled to run during the following steps.
2. Remove any plants from the Grow Shelves.
3. It is recommended to wear latex gloves when handling bleach.

   Add ½ cup of household bleach to the existing Nutrient Solution in the Reservoir, then run the Pump for 15 minutes.
4. Once most of the water has drained from the Grow Shelves, use a soft scrub brush to carefully remove any stains or debris, taking care not to splash your surroundings.
5. Run the Pump for an additional 15 minutes.
6. Empty the Reservoir.

a. For ease of emptying, you can use the Pump to empty out most of the contents of your Reservoir. Disconnect the Supply Line from the Quick Connect at the rear of the Level 2 Grow Shelf. Redirect the now open end of the Supply Line into a bucket or connect an additional length of hose (not provided) to pump directly into a sink or drain.

CAUTION: Use an abundance of caution when draining the Reservoir to avoid accidental flooding.

b. Using the on/off switch in your app, start your Pump to begin draining the water from the Reservoir. If you are pumping into a bucket, you may need to start and stop several times. Be sure not to overflow your bucket. Do not let the Pump run dry.

c. Remove the Reservoir from the Base, using a towel or tray to catch drips from the Pump while you remove the Reservoir. Dump the remaining contents of the Reservoir manually. Clean the Reservoir with a scrub brush, then wipe down with a wet rag.

7. Review the Pump Manual to familiarize yourself with the parts.

   Unplug the Pump, then remove the filter and clear any debris before reinstalling.
8. Place the Pump back inside the Reservoir, then put the Reservoir and Lid back in their place on the Base, ensuring that the Yellow Drain Hose is directed inside the Reservoir.

   As a reminder, the Reservoir should sit as far back in the Base as possible to ensure the Yellow Drain hose is directed straight down and not at an angle when the system is being operated.

IMPORTANT: Always ensure that the Yellow Drain Hose is directed inside the Reservoir when operating the system. Failure to do so may result in flooding.

9. Fill your Reservoir with nutrient solution per your Start-Up Guide to get your system ready to grow again.

Having some growing pains? We are here to help! Contact us at support@lesverts.com for support.