Les Verts Terrace™ Pro 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™ Pro Indoor Garden system up and running. The Set-Up section covers 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™ Pro 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

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Important Safety Instructions

Read all instructions before setting up, moving or operating your Terrace Pro.

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 assumes no responsibility for improper installation or use of this product or failure to adhere to local regulations.

The customer assumes full responsibility for the safe handling of food grown in the Terrace Pro, for personal or commercial consumption. Les Verts assumes no responsibility for the use of your Terrace Pro 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 Terrace Pro clean.

Unplug your Terrace Pro from power before proceeding with any cleaning, maintenance, repair, assembly or disassembly.

When fully operational, the Terrace Pro contains 60L of water. Ensure your Terrace Pro is free of leaks and is draining properly into the reservoir. Les Verts assumes no responsibility for damage to the Terrace Pro or any surrounding environment due to water damage from leaks and/or spills.

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

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

If any leaks occur, unplug your Terrace Pro and contact support@lesverts.com.

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

Only connect your Terrace Pro 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.

The Terrace Pro draws under 3 amps of electricity. It is the customer's responsibility to ensure the Terrace Pro is connected to an outlet that is not overloaded and that has an appropriately sized breaker.

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

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.

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

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 Terrace Pro. If any damages are found, please contact support@lesverts.com for replacement parts.

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

Keep the Fans clear of obstruction.

If your Terrace Pro 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.

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

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.

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

Do not place any persons or animals inside the Terrace Pro.

Do not allow children or pets to climb on the Terrace Pro. Children and pets should be supervised so they do not interfere with the safe operation of your Terrace Pro.

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

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

Do not install your Terrace Pro where there may be a danger of the unit falling.

Use lifting aids and proper lifting techniques when moving your Terrace Pro. Do not lift or push the unit by the Grow Shelves or Fans. Raise levelling feet prior to moving.

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

Do not push your Terrace Pro on a surface that has more than a 10 degree incline.

Your Terrace Pro must be placed on hard, level surface. When disassembling the unit, two people are required. Do not attempt to move with one person. Les Verts assumes no responsibility for improper disassembly/reassembly of the unit.

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

The Terrace Pro 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

To ensure your Terrace Pro is ready for use, follow these important set-up instructions prior to starting your growing journey.

Parts:

1. Level 1
2. Level 2
3. Base
4. 2 x Grow Shelves
5. 3 x Shelf Brackets
6. Top Cover
7. Back Frame
8. 2 x Fans
9. 6 x Lights (3 per Level)
10. Reservoir
11. Reservoir Lid
12. Supply Line
13. 13A Black Drain Hose
    13B Yellow Drain Hose
14. 4 x Quick Connects
15. Pump
16. 2 x Drain Fittings
    (1 per Grow Shelf)
17. 2 x Drain Stands
    (1 per Drain Fitting)
18. Smart Power Bar
19. GFCI

Additonal items:

(for optional custom shelf height adjustment)

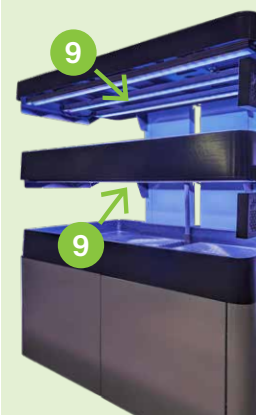
20. 1 x Quick Connect
21. 1 x Supply Hose Piece
22. 1 x Drainage Hose Barb
23. 1 x Drainage Hose Piece

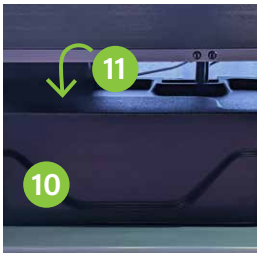
What you'll need:

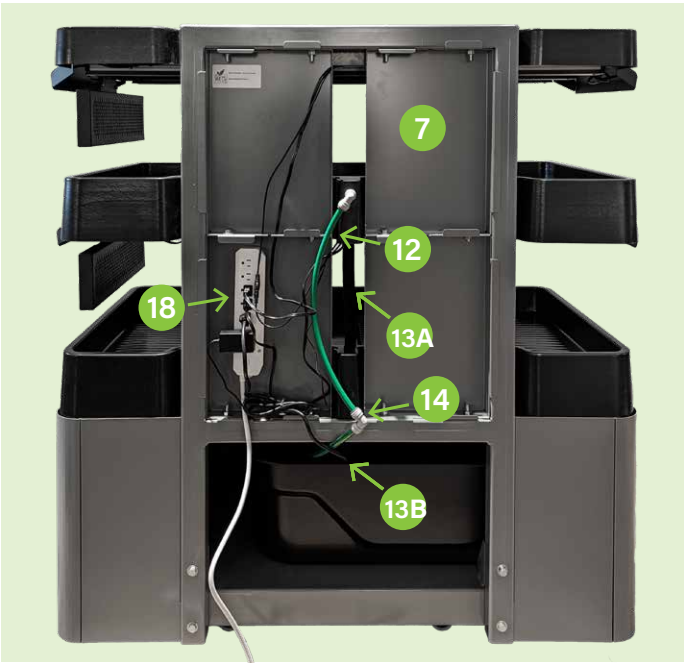
(not included)

- Rag
- Towel
- Small hose or bucket



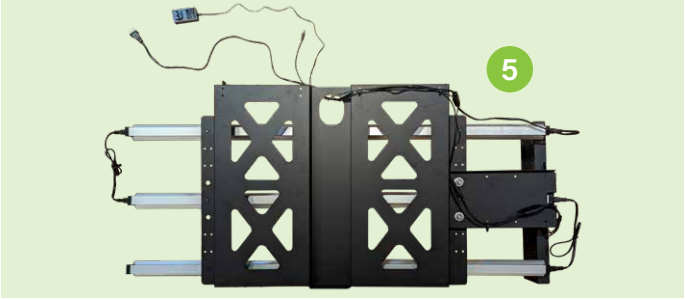














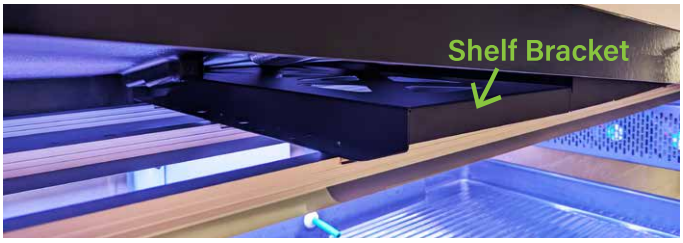
Set-Up Guide

1. Upon Delivery

a. Remove all plastic shipping wrap and discard.

b. ⚠**The following step requires 2 people.** Carefully roll the Terrace Pro off the pallet and move into your desired location. If you need to partially disassemble the unit to move it into place, please refer to the Disassembly section below. During set-up, you will need to have access to the front and back of the unit.

c. To move the unit, push it with 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.

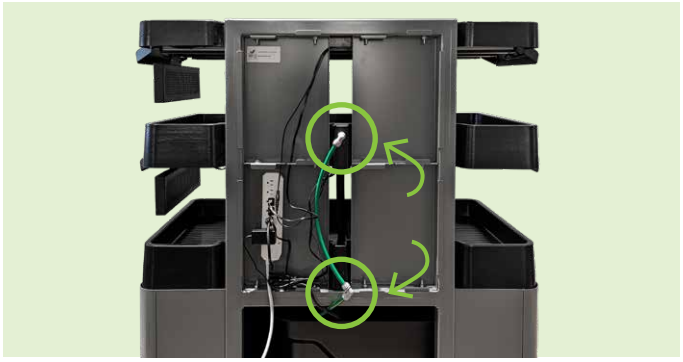


Caution: Heavy Object. Use lifting aids and proper lifting techniques when moving your Terrace Pro. Make sure installation surface can support the operational weight of the unit. Do not lift or push the unit by the Grow Shelves or Fans.

Caution: Tipping Hazard. Your Terrace Pro must be placed on hard, level surface. Do not push your Terrace Pro on a surface that has more than a 10 degree incline.

d. Remove the Reservoir Lid and remove all the parts contained within the Reservoir, other than the Pump and its connected hose assembly.

e. Connect the Supply Plumbing Line to the Pump Hose Assembly as shown. Then push the other end of the Supply Plumbing 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.



2. Disassembly (if necessary)

Disassembly and Reassembly are typically not necessary unless you need to take the unit apart to move it in place or replace a part. Most users can skip ahead to Step 4.

To fully remove a Grow Shelf and Shelf Bracket, the power and plumbing connections must be disconnected. Keep the Fan cords and Light cords attached to the Shelf Bracket and the Drainage Line attached to the Grow Shelf.

a. Unplug the Smart Power Bar from the wall outlet and remove all plug connections from the Smart Power Bar.

b. The Fans for each Shelf Bracket are connected to each other at the back of the unit. Disconnect the two cords.



c. 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.

d. Once the plumbing and power connections are removed, the Grow Shelf can be removed from the Shelf Bracket. When lifting off a Grow Shelf, you may need to help guide the Drain Hose through the Shelf Bracket.

e. 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 Fans and 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.

f. To remove the Back Frame, remove the 4 bolts from the back of the unit that attaches it to the Base. Then remove the 4 screws that attach the cabinet to the Back Frame.

Set-Up Guide cont.

3. Reassembly (if necessary)

a. To replace the Back Frame, reattach the 4 screws and 4 bolts.

b. When reinstalling a Level, ensure the Shelf Bracket is fully secure at the bottom of each slot before placing the Grow Shelf on top. See photo for detail. Feed the Fan and Light cords through the Back Frame and use the notches to keep all the cords hidden from view. When reinstalling a Grow Shelf, ensure the Drain Hose is fed through the Shelf Bracket and feeds directly into the Grow Shelf or Reservoir below.



***NOTE:** There are markings to show the default slot placements for each Shelf Bracket. To install the Shelf Bracket in any of the unmarked slots, you will need to use the additional items provided. Please contact us for instructions at **support@lesverts.com**.*

c. To reconnect the Supply Line securely, push it into each Quick Connect until it can't go in any further, then pull out slightly to lock the hose in place.

d. Reconnect the Fan cords at the back of the unit and plug in all connections per the next step below.

4. Electrical Check & Set-Up

a. Check all of the wires (Fans, 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. 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.

d. Leave the Pump disconnected for now. Connect the Lights and Fans to the Smart Power Bar to ensure they turn on. Unplug the Lights and Fans after verifying they turn on.

e. Setup the Smart Power Bar.

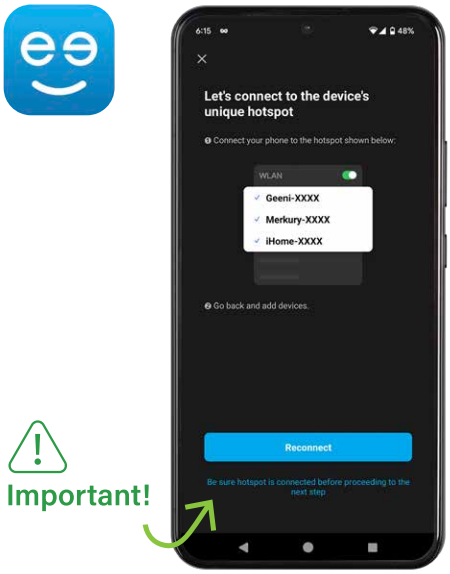
i. Ensure all plugs are disconnected from the Smart Power Bar before proceeding with this setup.

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

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

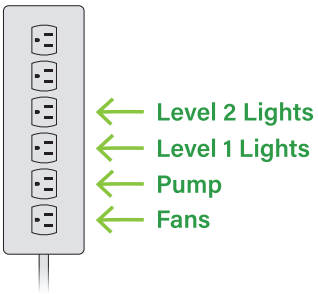
iv. If you have a dedicated 2.4GHz Wi-Fi network, use the easy mode (fast blinking) setup procedure.

v. 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, then click on the blue text underneath the "Reconnect" settings.



vi. Select the device (e.g., Smart Power Strip) and you should see an image of your 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 all the outlets.

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



f. Unplug the Smart Power Bar.

5. Plumbing Check

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

b. Use a wet rag to wipe down the Grow Shelves and remove any dirt or debris that may have accumulated during shipping.

c. Have a towel nearby to catch any drips before proceeding with the following step. Make sure the Smart Power Bar is unplugged. Remove the empty Reservoir and clean with water or a wet rag to remove any dirt or debris. Remove the Reservoir Lid, then remove the Reservoir. Set the Pump aside while you clean the Reservoir.

d. After cleaning the Reservoir, put it back in its place on the Base, then place the Pump inside the Reservoir and ensure the Yellow Drain Hose flows directly into the Reservoir.

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.



e. Fill the Reservoir with 20L of water (about 1/3 of the Reservoir) using a small hose or a bucket.

f. Remove the Drain Stands from all the Grow Shelves. Plug in the Pump to the Smart Power Bar and plug the Smart Power Bar into the GFCI, then into your wall outlet. Let it run for 5 seconds to make sure the Pump is working and to visually check the plumbing to ensure no leaks are present. Unplug your Pump.

g. If there are no leaks after this quick check, reinstall the Drain Stands, then plug your Pump in.

h. As the water continues to flow, check for any leaks throughout the plumbing.

i. Once all the water has finished draining back into the 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) and redirect into a sink or drain.

j. Plug in the Pump to start draining the water from the Reservoir. Once the Reservoir is nearly empty, unplug the Pump and empty the rest of the Reservoir by removing it and dumping the remaining water manually. This will remove the remainder of any dirt or debris.
⚠Do not run the Pump dry.

k. Once the Reservoir is empty, put it back in its place on the Base, then place the Pump inside the Reservoir and ensure the Yellow Drain Hose flows directly into the Reservoir.

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.

6. Leveling Feet

Move your Terrace Pro into the desired location. Adjust the two levelling feet so they are finger-tight against the floor for added stability.



Caution: Tipping Hazard. Raise leveling feet prior to moving.

Your Terrace Pro is now ready for Start-Up!

Start-Up Guide

Now you're ready to prepare your **Les Verts Terrace™ Pro 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):



Citric Down + Beaker



Greens Growth Formula Nutrient Kit



pH Strips

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.*

If you're starting up for the first time, you can wait to set your Pump and Fan schedule until your plants are past the initial hand watering stage and are ready for automatic watering. Refer to your Grow Guide for more details.

c. Fan schedule: If you have any plants that are past the stage of requiring a humidity dome, keep your Fans on as much as possible (ideally 24/7) for optimal airflow and disease mitigation.

2. Fill your Reservoir with Nutrient Solution

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

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.

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

i. Add **2 Tablespoons (or 28 grams) of Part A** and let completely dissolve in your Reservoir.

ii. Add **4 Tablespoons (or 70 grams) of Part B** and let completely dissolve in your Reservoir.

c. Add **120mL 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. Stir the contents of your Reservoir thoroughly before running your Pump.*

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.

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, Greens Growth Formula 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
- Soft scrub brush
- Rag or paper towel

1. Clean out the system.

a. Shut off the lights and remove any plants from the Grow Shelves.

b. Add ½ cup of household bleach to the existing Nutrient Solution in the Reservoir.

c. Run the Pump for 15 minutes.

d. Turn off the Pump and while the Grow Shelves are draining use a soft scrub brush to remove any stains or debris.

e. After you are finished run the Pump for an additional 15 minutes.

f. Once you have run the Pump twice, inspect the Reservoir and clean with the scrub brush if necessary.

g. Empty the Reservoir and wipe it down with a rag or paper towel. Refer to the Plumbing Check section of the Initial Set-Up Guide for tips on how to empty the Reservoir efficiently.

2. Clean the pump filter.

a. Refer to the Pump manual before proceeding with this step. Unplug the Pump, then remove the filter and clear any debris before reinstalling.

3. Remove Grow Shelves for deep cleaning or easier scrubbing, if necessary.

a. Unplug the Pump.

b. Disconnect the Supply Line using the Quick Connect on the Level 2 Grow Shelf. This is done by pushing the hose in, and then removing the hose while holding the Quick Connect ring against the base.

c. Remove each Grow Shelf from its Shelf Bracket. You may need to help guide the Drainage Hose through the Shelf Bracket as you do this.

d. Once the Grow Shelves are removed, the Drainage Line can be disassembled if further cleaning is required.

i. The filter and riser can be removed from the bulkhead by unscrewing them from the bulkhead.

ii. The Drainage Line can be removed from the drain by using pliers to separate the snap on hose clamp. This hose clamp can be reused by pinching together with pliers.

iii. The bulkhead drain can be removed from the Grow Shelf by unscrewing the nut on the underside of the Grow Shelf. When reinstalling, this nut needs to be tight in order to seal the hole in the Grow Shelf.

4. Follow the Start-Up Guide to get your system ready to grow again.

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