

Outdoor Assembly Guide

*Models:
SGO-18
SGO-36 (pictured)
SGO-54*



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Introduction

Solaris Systems Inc is a hydroponic systems company whose goal is to make it easy for anyone to grow lettuce, herbs and other small crops. The combination of the Solaris Seed Starter with the Solaris Garden enables you to always have a new batch of seedlings ready when harvesting full plants.

If you want to have plants growing as soon as possible, then skip to the sections for setting up your Solaris Seed Starter and getting the seeds started. It takes 1-3 weeks for plants to be big enough to be transplanted to the Solaris Garden, so setting up the Solaris Garden can wait until after your initial planting is done.

Models

The **SGO** series do not have any grow lights, and are meant for outdoor use in near-full sun.

SGO-18: One tray with room for 18 plants.

SGO-36: Two trays with room for 36 plants.

SGO-54: Three trays with room for 54 plants.

Smaller models can easily be upgraded to larger models in the future with an upgrade kit.

Powering the Solaris Garden

The water pump is the only item requiring power. It should run continuously, but never dry. Make sure it is plugged into an outdoor rated outlet.

⚠ Do NOT use a power strip anywhere near the Solaris Garden. Power strips, with their open sockets, are an electrical hazard near a water source.

Video Guides

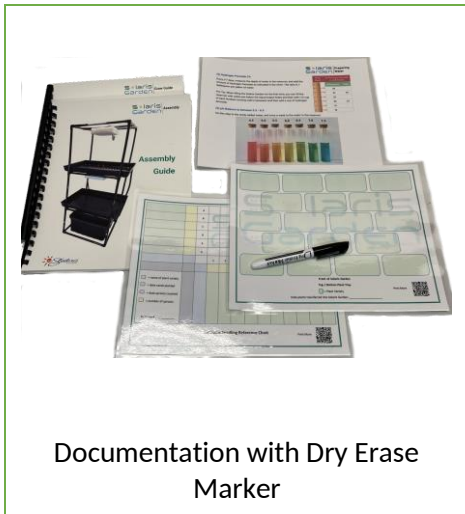
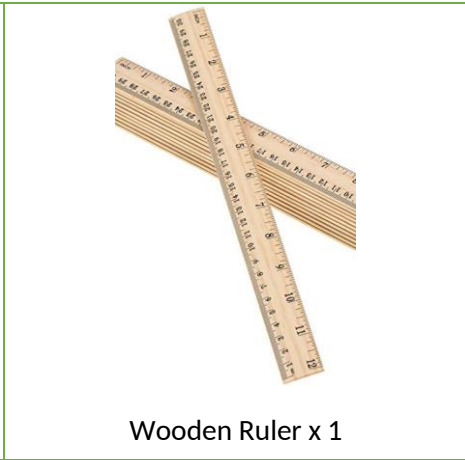
To view video guides of the following assembly steps, visit <https://solaris.garden/video-print-guides>

Contents of Shipping Box 1

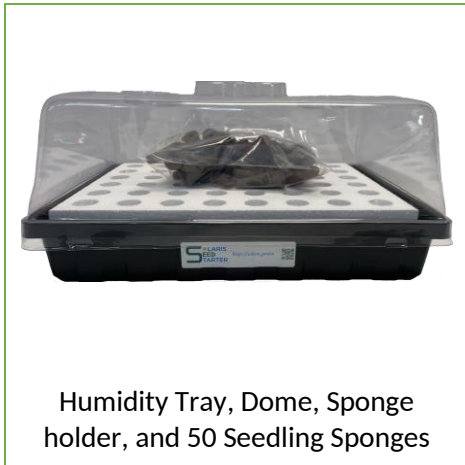
 <p>Base: SGO-18 x 1; SGO-36 x 2; SGO-54 x 3</p>	 <p>Shelf: SGO-18 x 1; SGO-36 x 2; SGO-54 x 3</p>	 <p>Top: SGO-18 x 1; SGO-36 x 2; SGO-54 x 3</p>
 <p>Fill Tray x 1</p>	 <p>Add-on Tray: SGO-36 x 1; SGO-54 x 2</p>	 <p>Tray Cover: SGO-18 x 1; SGO-36 x 2; SGO-54 x 3</p>
 <p>Vertical Risers (Long): SGO-18 x 4; SGO-36 x 8; SGO-54 x 12</p>	 <p>Drain Baffle: SGO-18 x 1; SGO-36 x 2; SGO-54 x 3</p>	
 <p>Drain Tube: SGO-18 x 20"; SGO-36 x 45"; SGO-54 x 81"</p>	 <p>Tray-to-Tray Connector: SGO-36 x 1; SGO-54 x 2</p>	

Contents of Shipping Box 2

		
<p>Reservoir and Pump x 1</p>	<p>Seedling Sponges x 50</p>	<p>Seed Packets x 4</p>
		
<p>24 ¾" Base Risers (B3) x 4 SGO-18; SGO-36; SGO-54</p>	<p>21 ½" Base Risers (B2) x 4 SGO-36; SGO-54</p>	<p>18" Base Risers (B1) x 4 SGO-54</p>
		
<p>pH Down (8 oz) x 1</p>	<p>FloraMicro, FloraGrow, FloraBloom fertilizers x 1</p>	<p>pH Test Kit x 1</p>



Also in Box 2 if the Solaris Seed Starter was purchased with the Solaris Garden



Step-By-Step Assembly Instructions

Solaris Seed Starter (If Ordered)

1. Place the lights on top of the legs and push the end of each light onto a peg. If necessary, use a rubber mallet to assist.



2. Once the lights are attached to the legs, place over the humidity dome with sponge holder.



Outdoor Solaris Garden Assembly

All assembly directions are looking at the Solaris Garden from the back.

1. Add the *Base Risers (B3)* to the *Base*, and then put on the *Shelf*. Repeat with the other *Base(s)* and *Base Risers (B2)* and *(B1)* if applicable to your model.



2. Place the *Fill Tray* with the smaller barbed elbow onto the *Shelf* with the taller *B3* risers. SGO-18: Attach to drain tube to the larger elbow on the left.



3. Put the *Tray Cover* onto the *Tray*. Place a *Vertical Riser* in each corner, and add the *Top*. Repeat if applicable to your model.



4. Put the *Reservoir and Pump* underneath the *Shelf* that has the *B3 Base Risers*. SGO-36 & 54: This will be the tallest of the frames. Pull the pump's tubing through the reservoir's right grommet and connect it to the matching barbed connector on the right side of the tray.



Note: In the following steps, when you are pushing vinyl tubing onto barbed connectors, you can use a hair-dryer to soften the tubing or add some petroleum jelly to the inside of the tube to make it easier.

5. -- **SGO-18**: Attach the drain tube from the top left barbed connector on the tray to the top left barbed connector on the reservoir.



5. -- **SGO-36**: Place the shorter frame with the *B2* legs to the left of the frame with the reservoir. Connect the two trays with the 6" section of tubing. Finally, attach the drain tube from the lowest tray onto the reservoir's barbed connector.



5. -- **SGO-54**: Place the frame with the *B2* legs between the taller frame with the reservoir on its right, and the shorter frame with the *B1* legs on its left when viewing the system from the back. Connect the three trays together using the 6" sections of tubing.



6. **SGO-54**: Finally, attach the drain tube from the lowest tray onto the reservoir's barbed connector. Ensure that the drain tube is tight and at a consistent downward slope. Use the Velcro straps to attach the tube to the frame to help maintain the angle.



Testing the Water Flow

Once you've added water to the reservoir (see the [Preparing the Water](#) chapter in the Grow Guide), plug in the pump and watch to see that water is coming out of the tray's inlet. Once the tray is filled, it should drain into the next tray and eventually the reservoir at the same rate that it is being filled at to maintain an approximate water depth of 1-3/4".

If the tray fills past the drain and/or overflows, there may be an airlock. Unplug the pump and move the individual tiers further away from each other so that the drain tube(s) are as tight and straight as possible. Plug the pump back in.

Drain Baffles

The tray's drain has a baffle connected to it. This helps prevent roots from growing into and clogging the drain. Some roots will still grow around them, so check and remove roots weekly from the drain tube.



Warranty and Returns

Solaris Systems, Inc backs all Solaris Garden products with a one year parts warranty against manufacturing defects or failure, not due to misuse or error in operation. Should any part fail within one year of purchase because of a manufacturing defect or failure not due to misuse or error in operation, Solaris Systems will replace that part free of charge. Any modifications to the Solaris Garden or allowing water to fall below the top of the pump will void the warranty.

Solaris Systems, Inc offers a 14-day return policy on all Solaris Gardens. Returns must be initiated within 14 calendar days from the date the product was received. To be eligible for a return, your Solaris Garden must be unused and in the same condition that you received it. Your item must be in the original packaging. A receipt or proof of purchase is also required.

You will be responsible for paying shipping costs for returning your item. Shipping costs are non-refundable.

Contact Us

If you have any questions about the assembly, or want to know the best way to grow your plants using the Solaris Garden, visit our website at <https://solaris.garden> for additional tips and tricks, or send an email to info@solaris.garden.

If anything is missing from your shipment, contact us immediately and we will send the missing component.

Appendix

About the submersible water pump

The EcoPlus Eco 185 Submersible Pump is a fixed flow rate, multipurpose pump. EcoPlus pumps are for indoor or outdoor use and should never be let run dry.