

VGrow Smart Grow Box Manual

MODEL NAME

- VG-Y18B
- VG-Y18B-EU
- VG-Y18B-CA
- VG-Y18B-UK
- VG-Y18B-AU

SAFETY INFORMATION

Please read the following instructions carefully before using this device. Failure to observe these safety instructions may result in injury and will release VIVOSUN of all liability and void all product warranties.

Handling

- For Indoor Use Only.
- Keep Dry - The VGrow Smart Grow Box is not waterproof. Protect the device from moisture and dripping water. Do not spray water directly on the unit.
- Avoid Physical Damage - Do not expose the VGrow Smart Grow Box to impact or severe weather conditions.
- Acceptable Temperature Range - Only operate the grow box at temperatures between 10°C and 32°C (50°F to 90°F).
- Inspect Before Use - Visually inspect the grow box and power cord for any loose parts or damage before use. Do not use if any damage is found.

Power Cord

- This product is equipped with a 3-prong grounded AC power cord. It fits only grounded electrical outlets.
- To reduce the risk of electric shock and fire, always plug the cord into an accessible, properly grounded outlet. If your outlet does not accommodate the grounded plug, contact a licensed electrician to install a grounded socket.
- Keep the device and power cord out of reach from children.

Filter

To ensure safe operation and proper performance of the VGrow Smart Grow Box, follow these filter maintenance guidelines:

- Always disconnect the power cord before servicing or replacing the filter.
- Replace the filter every 3 months during regular use to maintain optimal airflow and odor control. Also replace the filter immediately if you notice any odor leakage or reduction in airflow.
- Failure to replace the filter regularly can decrease system performance over time. A clogged filter restricts airflow which can lead to odor buildup and other issues.

Repairs

If you experience an issue with your device, please contact us before attempting any repairs. Opening the device to inspect or repair is only allowed with VIVOSUN's explicit permission.

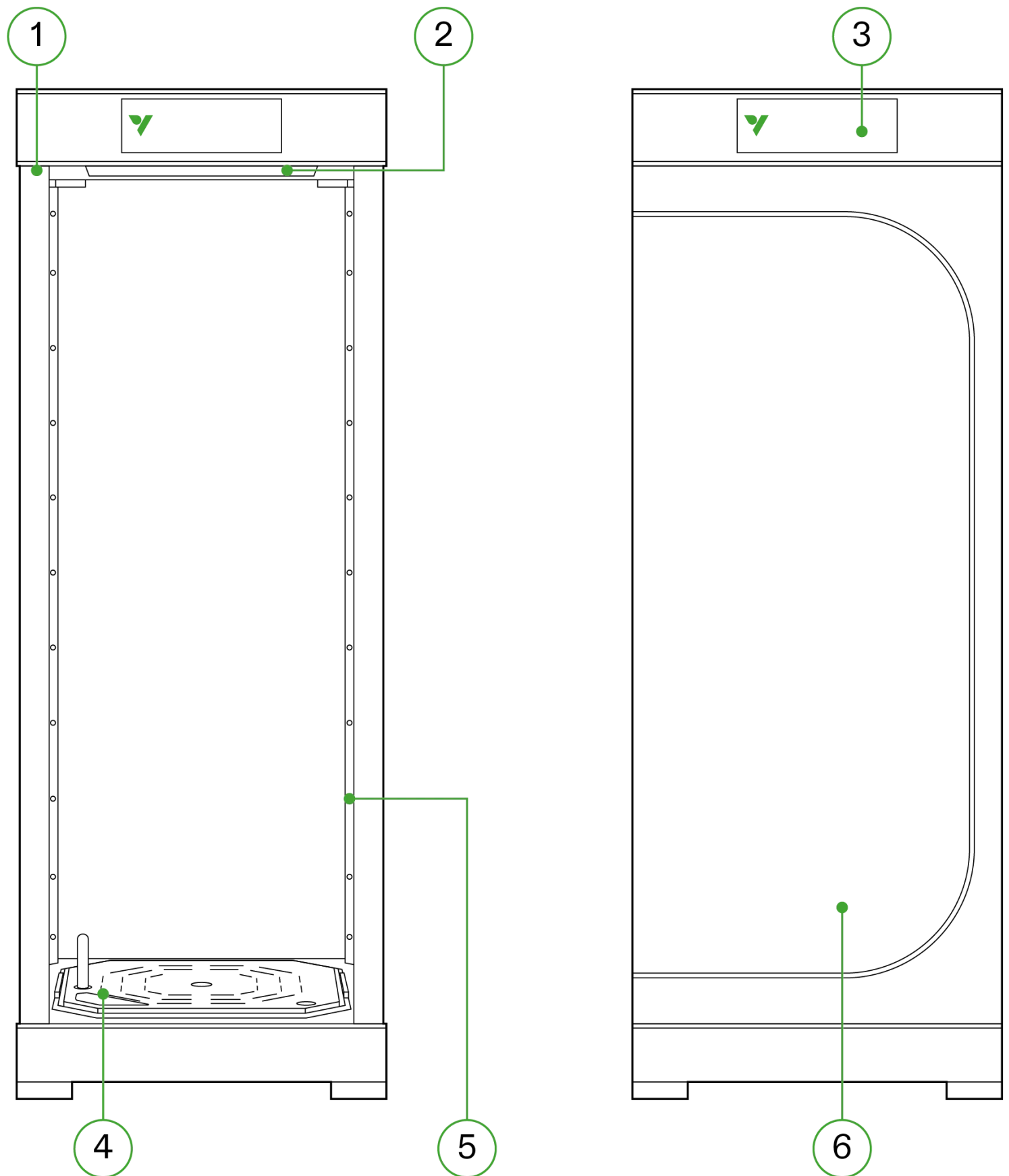
Disassembling the device or installing add-ons without VIVOSUN's explicit permission could damage your device in ways not covered by the warranty. Unauthorized modifications or repairs are made at the user's own risk.

Cleaning

To safely clean your device:

1. Turn off and unplug the power cord. This prevents electric shock or damage during cleaning.
2. Using a clean, soft, lint-free cloth, gently wipe down the external surfaces. Avoid getting moisture in any openings or vents.
3. Do not use water, cleaning solutions, sprays, or detergents which could enter and damage internal components.
4. Allow your device to fully dry before reconnecting the power cord and turning it back on.

KEY FEATURES



1. All-in-One Ecosystem: Combines the essential elements of light, ventilation, air circulation, nutrients, and water.

- 2. Samsung LM301H EVO LED: Samsung LM301H EVO LED
- 3. Intelligent Remote Control: The VIVOSUN app enables remote guidance and automation throughout every phase of your plant's growth cycle.
- 4. Versatile Irrigation System: Select the irrigation system that best suits your plant and your personal preferences.
- 5. 360° Ventilation System: Full airflow coverage to all interior areas to effectively prevent mold and pests.
- 6. Discreet Viewing: The large viewing window offers a seamless interior view and the magnetized seal prevents light leakage.

PRODUCT CONTENTS

Main Contents

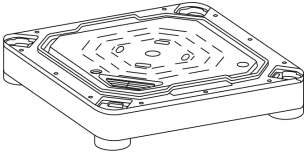
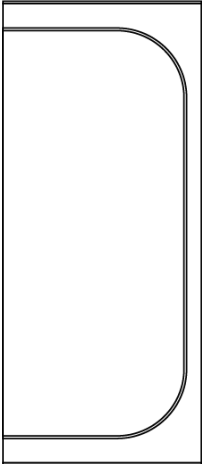
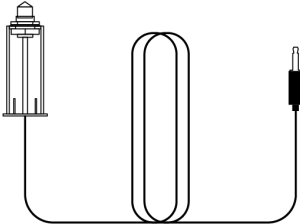
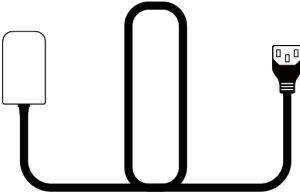
Image	Name	Quantity
	Smart Top Cover (Filter Included)	1PC
	Irrigation System Base	1PC
	Standard Skin	1PC

Image	Name	Quantity
	Vertical Structure Poles A	2 PCS
	Vertical Structure Poles B	2 PCS
	Water Meter	1PC
	Water Level Sensor	1PC
	Power Cord	1PC

Accessories Box

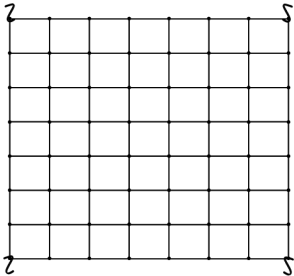
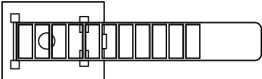
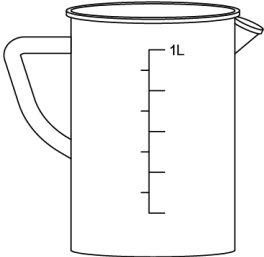
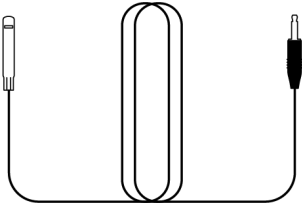
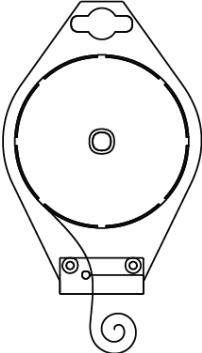
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	Pruner	1 PC
	Trellis Net	1 PC
	Wire Tie	1 PC
	Measuring Pitcher 1L	1 PC
	Temperature & Humidity Sensor 1m	1 PC
	Twist Tie Roll 50m	1 PC

Image	Name	Quantity
	Add-on Base	6 PCS
	Magnetic Hook	6 PCS

Supply Box

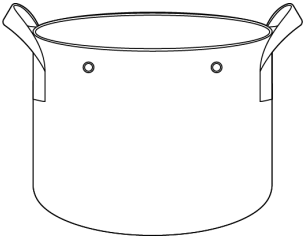
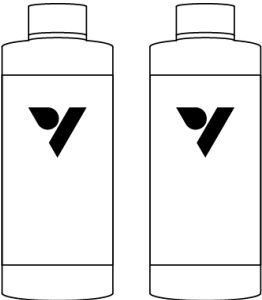
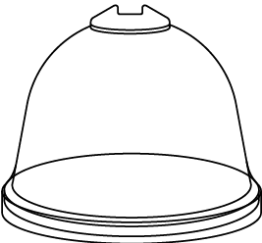
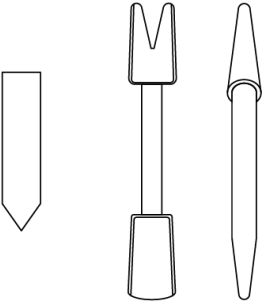
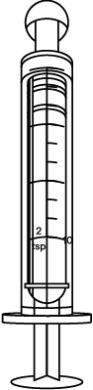
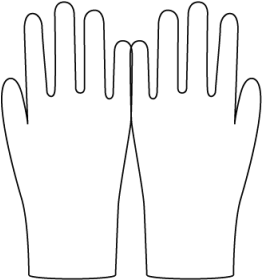
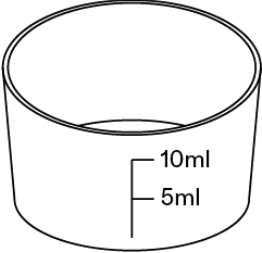
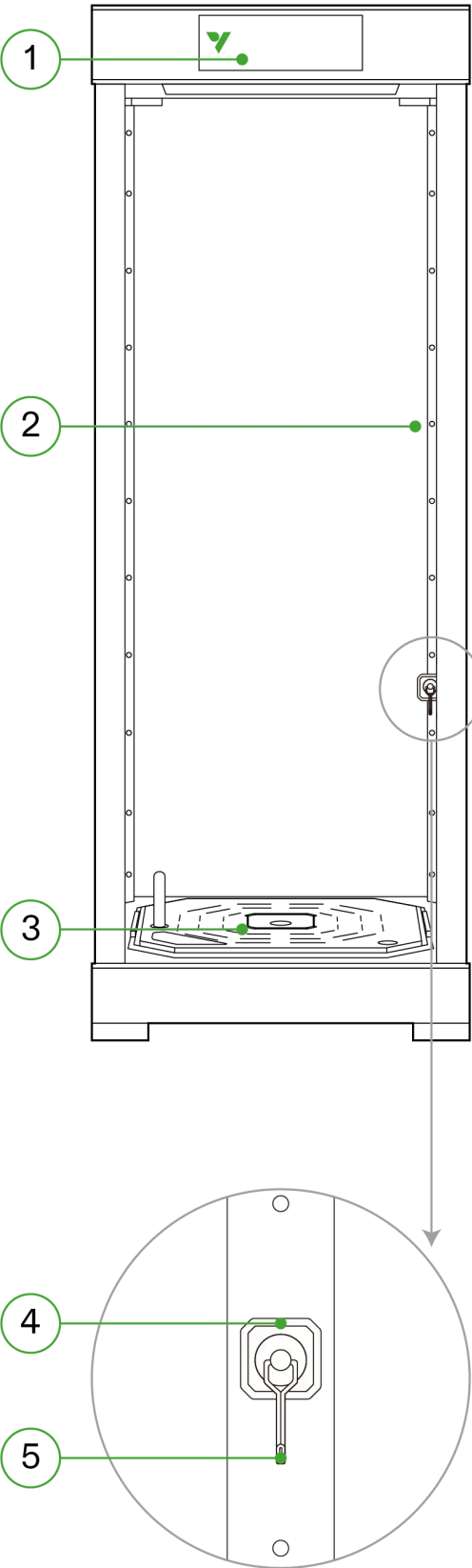
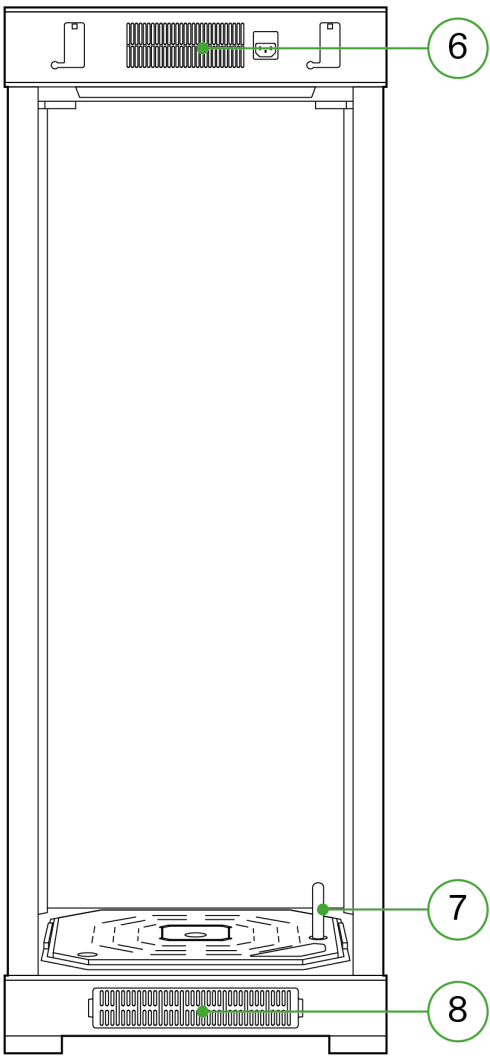
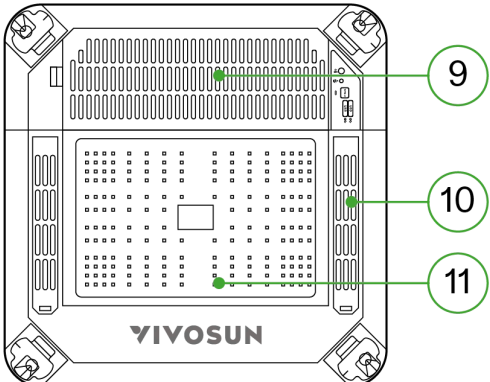
Image	Name	Quantity
	Grow Bags	1 PC
	Coco Coir	1 PC
	Nutrients A & B	1 SET
	Humidity Dome	3 PCS

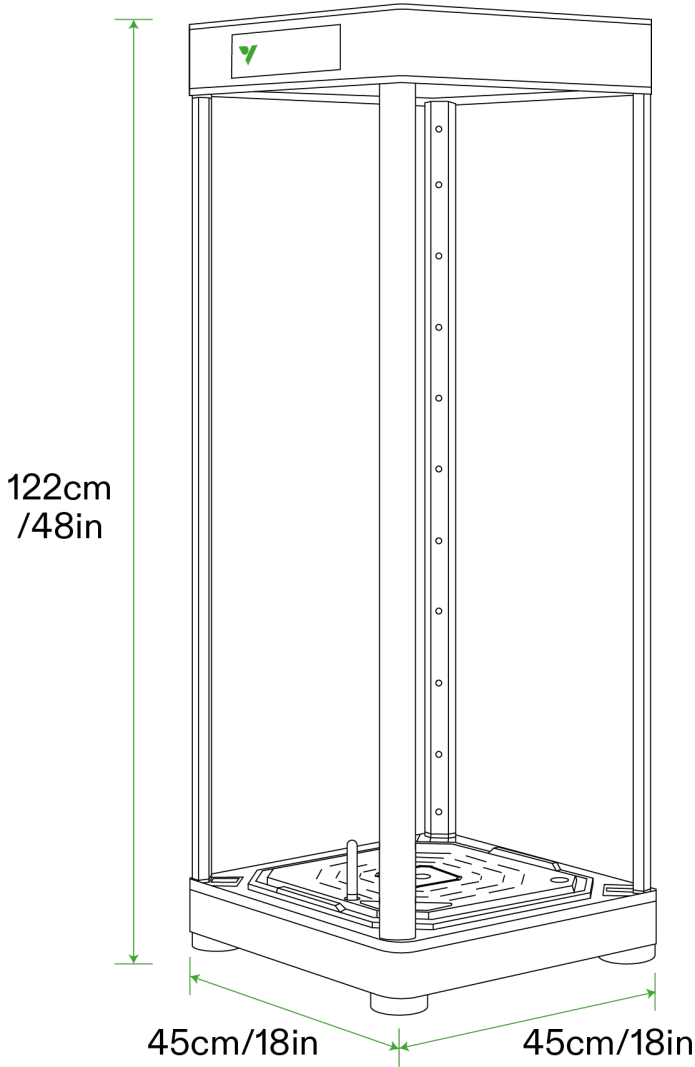
Image	Name	Quantity
	Planting Tools & Labels	10 PCS
	Syringe	1 PC
	Disposable Nitrile Gloves	40 PCS
	Measuring Pitcher 10ml	1 PC

COMPONENT DESCRIPTION

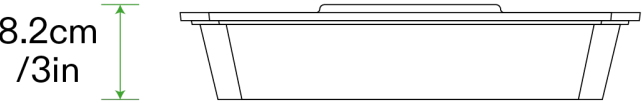
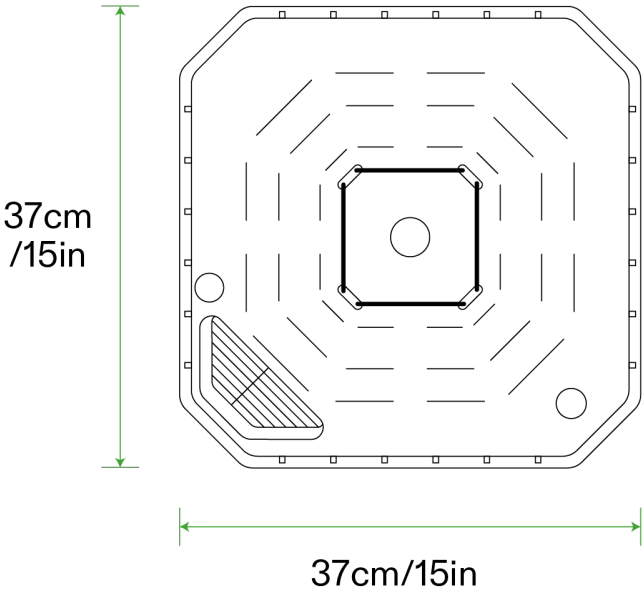
Direction	Image	Description
Front		1. Smart Controller 2. Air Circulation Outlet Ports 3. Self-Watering Pot 4. Add-on Base (In Accessories Box) 5. Magnetic Hook (In Accessories Box)

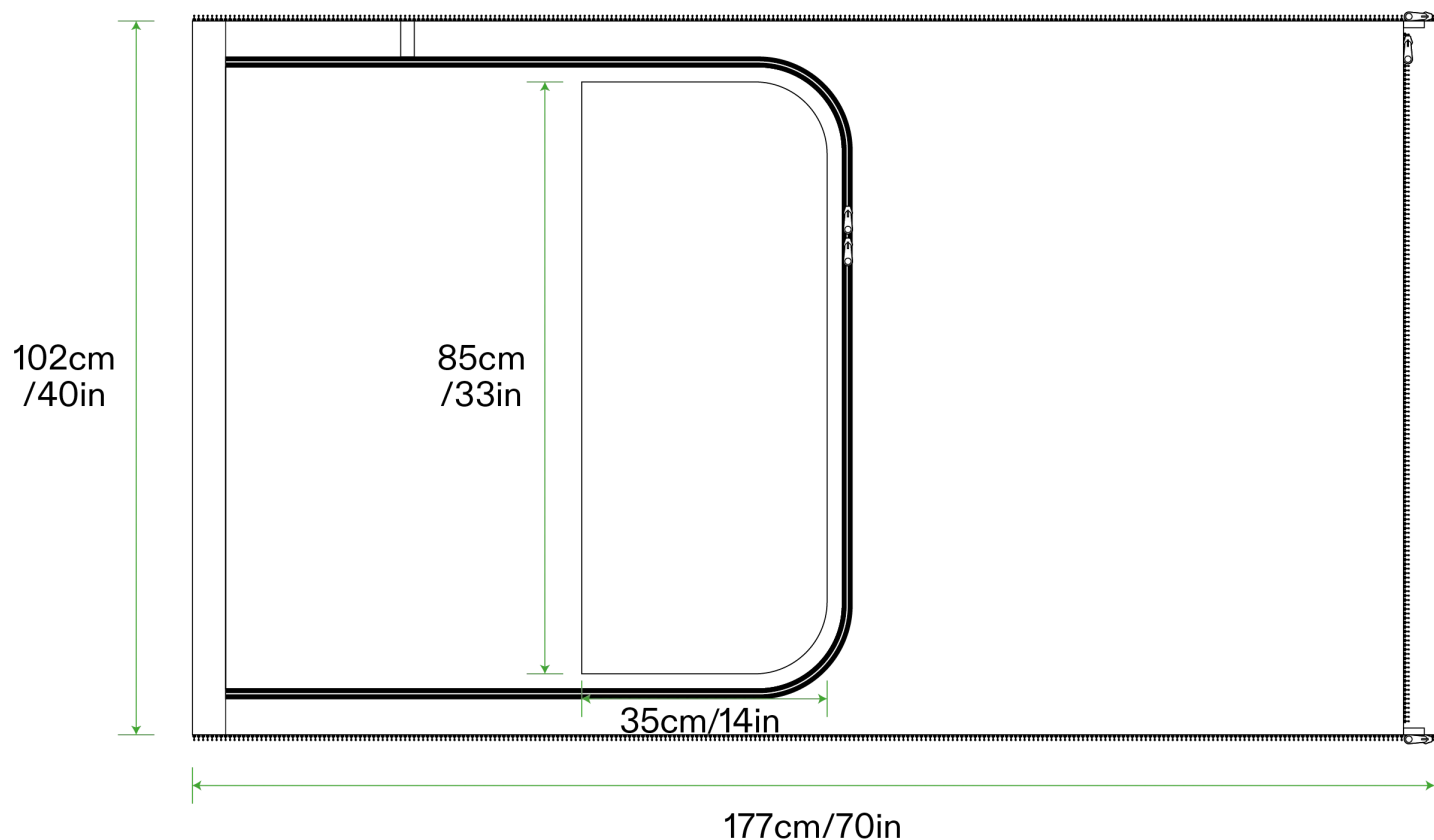
Direction	Image	Description
Back	 The diagram shows the back of a tall, rectangular smart grow tent. At the top, there is a ventilation air outlet (6) and a water meter (7). At the bottom, there is a ventilation air inlet (8). The tent is shown with its internal structure and a small fan at the bottom.	6. Ventilation Air Outlet 7. Water Meter 8. Ventilation Air Inlet
Smart Top Cover	 The diagram shows the Smart Top Cover of the tent. It features a ventilation fan and filter (9) at the top, a circulation air inlet (10) on the side, and a grow light (11) at the bottom. The brand name VIVOSUN is visible at the bottom of the cover.	9. Ventilation Fan & Filter (Filter is pre-installed) 10. Circulation Air Inlet 11. Grow Light

DIMENSIONS



Skin





SPECTRUM

VGrow’s adjustable spectrum maximizes efficiency through different growth phases:

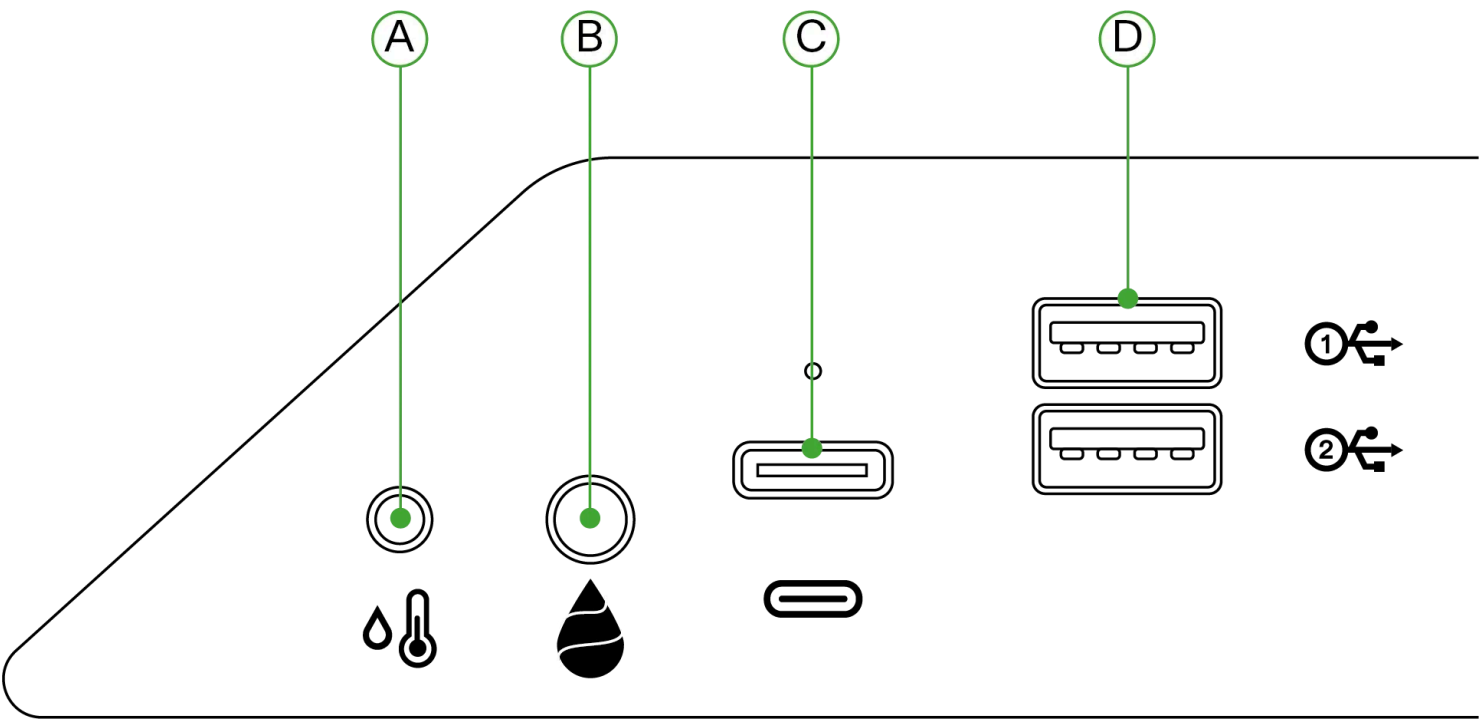
Spectrum	Stage	Description
	Seedling	The blue light-enhanced spectrum encourages stronger root development and prevents overstretching growth during the critical seedling period.
	Veg	A balanced spectrum is provided, which is conducive to the growth of leaves during the vegetative stage.
	Flower	The flowering cycle spectrum is optimized with targeted red (660nm) and far-red (730nm) wavelengths to promote abundant blooming.

SPECIFICATIONS

Spec	Value
Dimensions	46x46x122 cm / 18x18x48 in
Weight	11.8 kg / 26 lbs
Grow Height	92 cm / 36 in (one plant)
Body Material	Double-Sided Faux Leather
Filter	Compact Powder Activated Carbon Filter
Tank Capacity	6L / 1.6 Gal
Irrigation	Self-Watering, Upgradable to Drip Irrigation and DWC
Energy Consumption	Approximately 1kWh Per Day
Yield	Up to 227 g / 8 oz.
Lighting System	100W Full Spectrum Light
Air Circulation	Multi-Layered Air Circulation
Ventilation System	35 Cubic Feet per Minute
External Interface	2 USB & 1 SGS interface
User Interface	LCD Screen with Backlight
Power Supply	110V- 240V
Connectivity	Wi-Fi 2.4G
Compatible OS	iOS & Android

INSTALLATION & CONNECTION

Connection



Port No.	Description
A	2.5mm AUX interface: Temperature & Humidity Sensor
B	3.5mm AUX interface: Water Level Sensor
C	Type-C interface: AeroWave E6 or other VIVOSUN SGS devices
D	USB interface *2: AeroWave D4, Pump, Camera, Humidifier

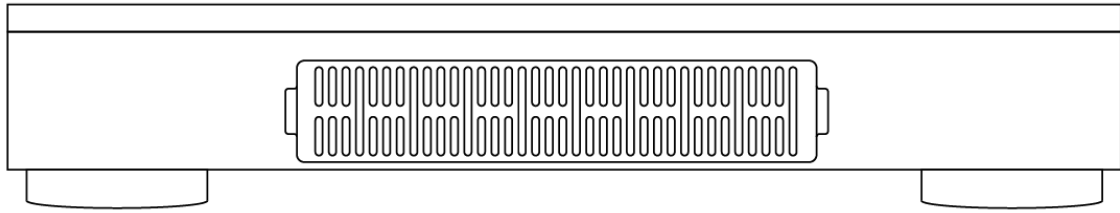
Installation

Step 1 Base Placement

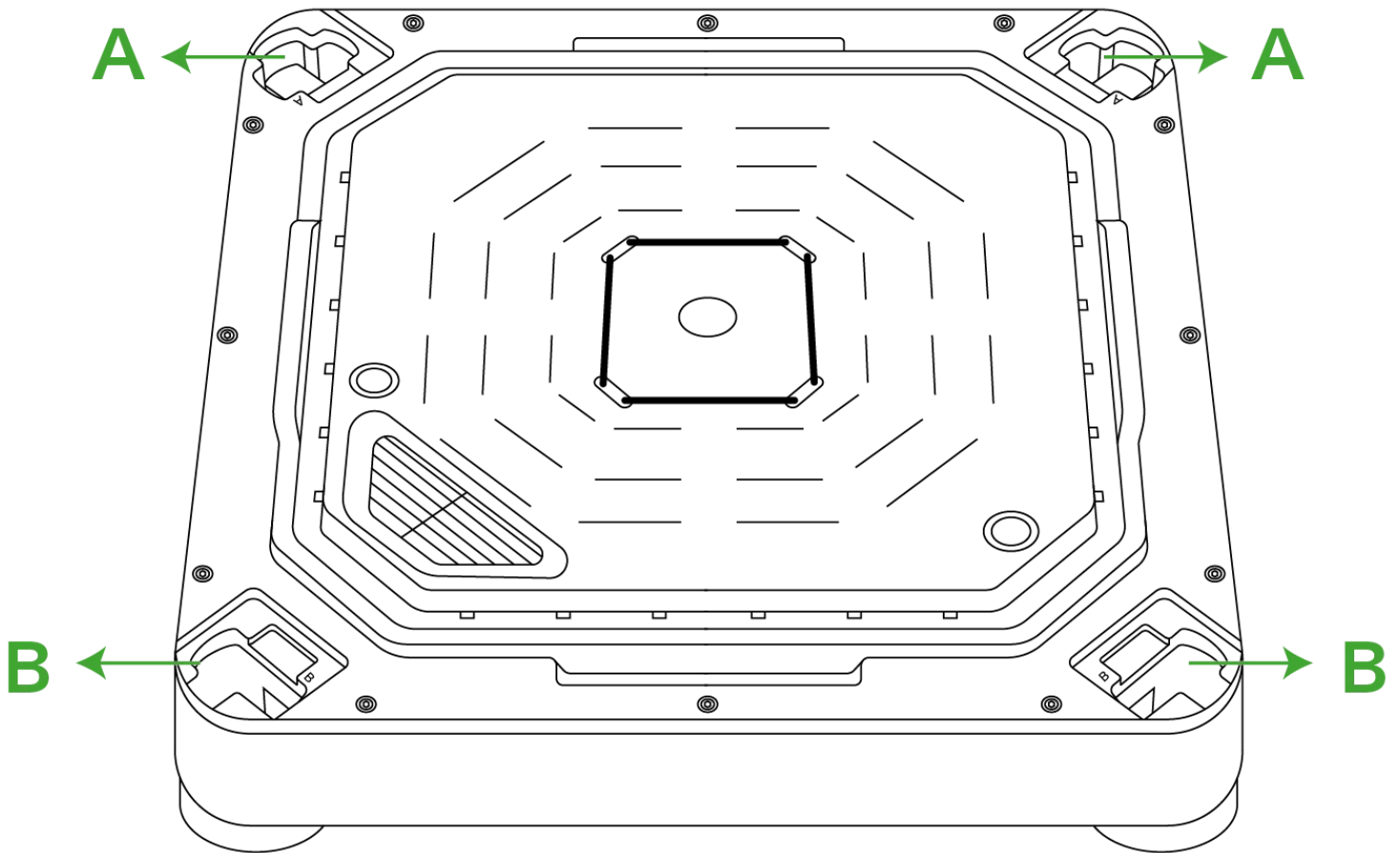
Place the **Irrigation System Base** on a flat surface. **Mounting Hole B** is on the front.

Mounting Hole A and the **Ventilation Intake Vent** are on the back.

Back Side



Front Side



Step 2 Mounting the Poles

Align Vertical Structure Pole A with Mounting Hole A on the Irrigation System Base. Insert and push firmly until it clicks into place.

Align Vertical Structure Pole B with Mounting Hole B. Insert and push firmly until it clicks into place.

Check that both vertical pole claps are fully flat and in line with the base, indicating they are properly locked in place.

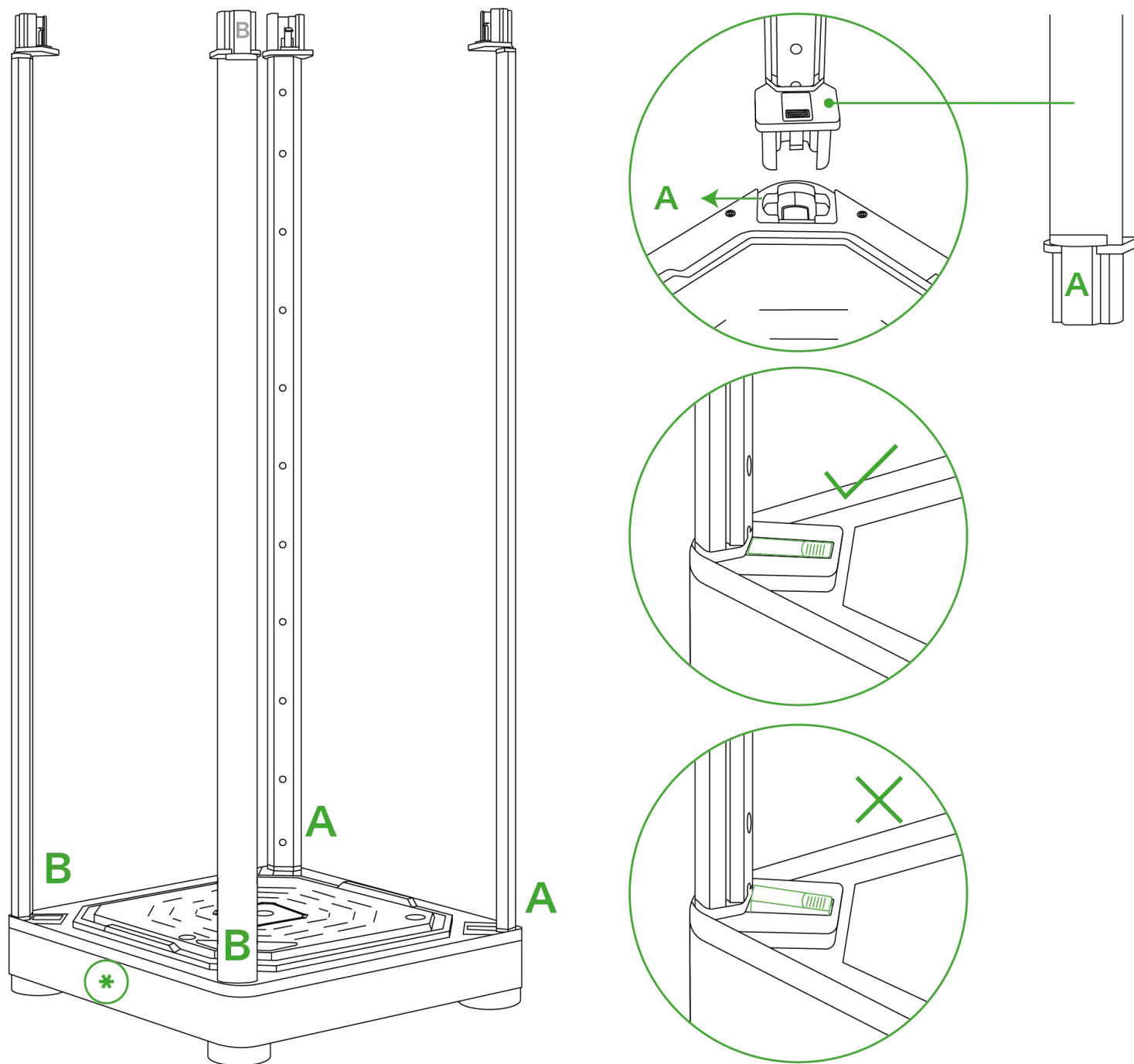
Note:

Vertical Structure Pole A and Vertical Structure Pole B are side-specific and must be installed in the correct positions.

Pole A only inserts into Mounting Hole A

Pole B only inserts into Mounting Hole B

Attempting to force an incorrect alignment can damage the irrigation system base or vertical poles. Please take care to match the labeled parts with their corresponding mounting holes.



*Front Side

Step 3 Securing the Smart Top Cover

The Controller interface is located on the front panel. Carefully grasp the Smart Top Cover with the Controller facing outward.

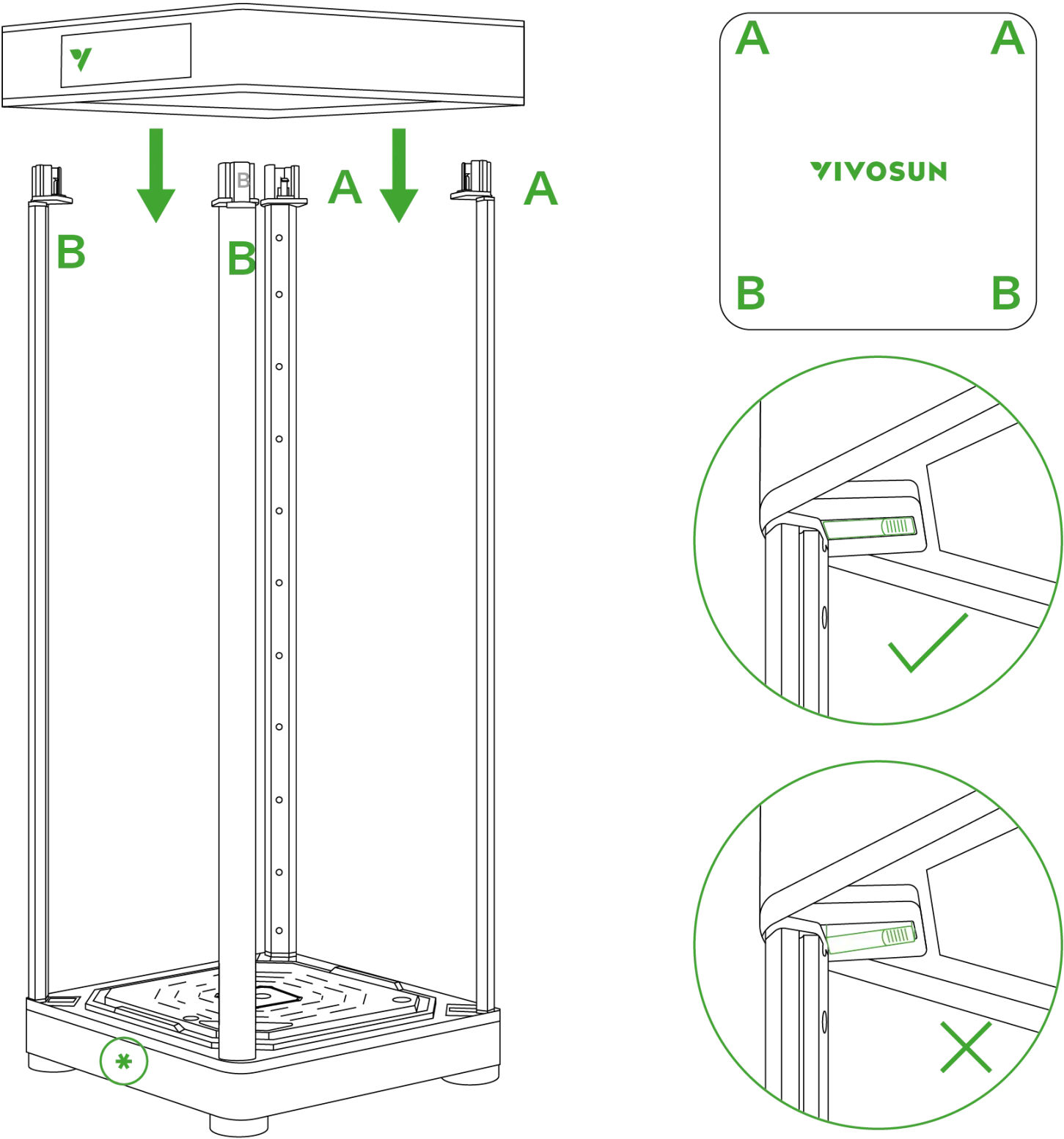
Align Vertical Structure Pole A with Mounting Hole A. Insert Pole A fully into Hole A until it clicks into place.

Align Vertical Structure Pole B with Mounting Hole B. Insert Pole B fully into Hole B until it clicks into place.

After insertion, verify both side clasps are completely flat and flush with the surface.

Safety Reminder:

When inserting the vertical structural poles into the smart top cover mounting holes, keep hands safely away from the connecting joints.



*FrontSide

Step 4 Installing the Skin

Step 4.1 Attaching the Skin

Locate the installation support velcro strip on the top panel. Attach this velcro strip to the matching velcro strip on the skin. Press firmly to adhere it to the skin.

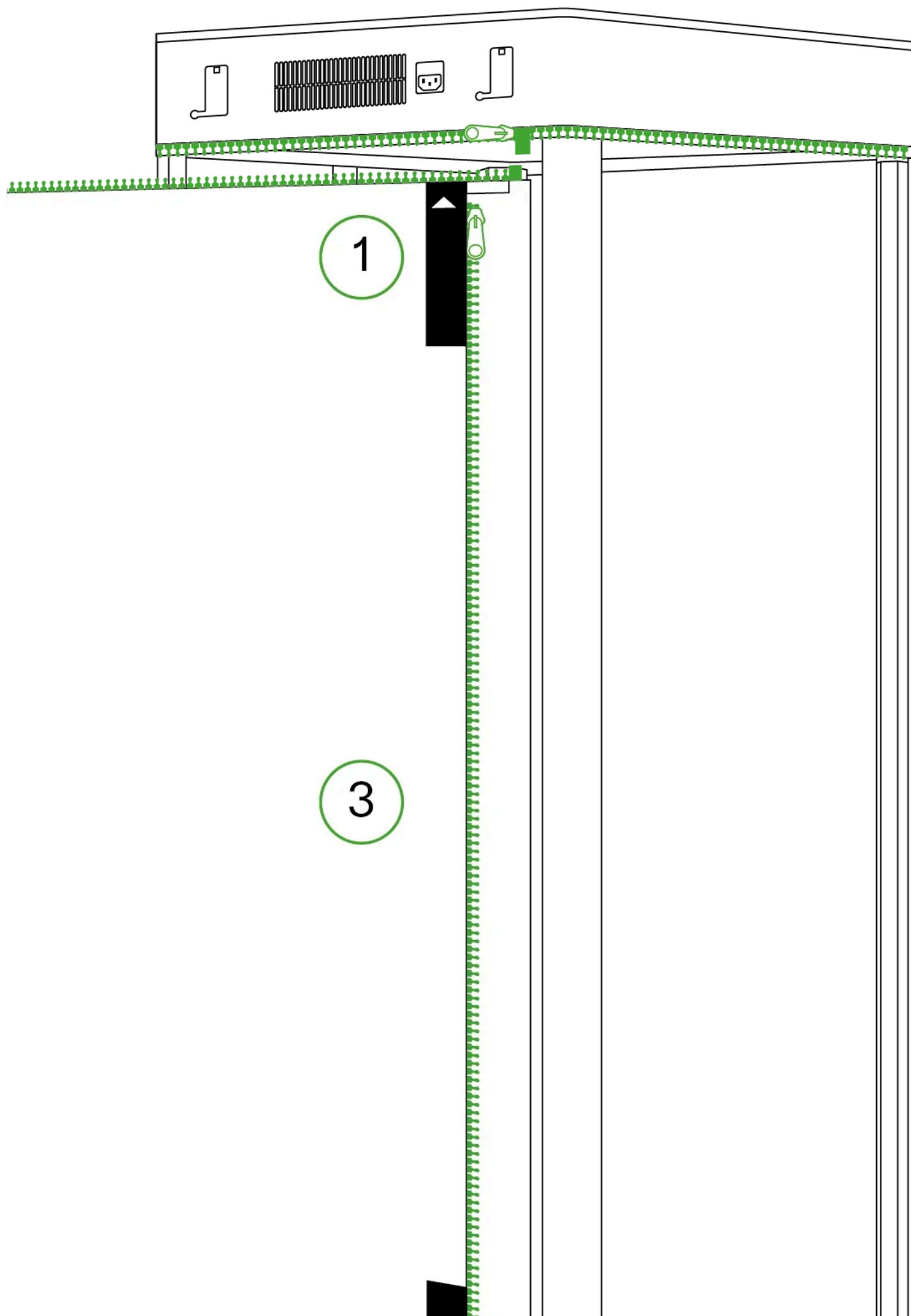
Before zipping up the skin, identify which side should face outward and which side should face inward:

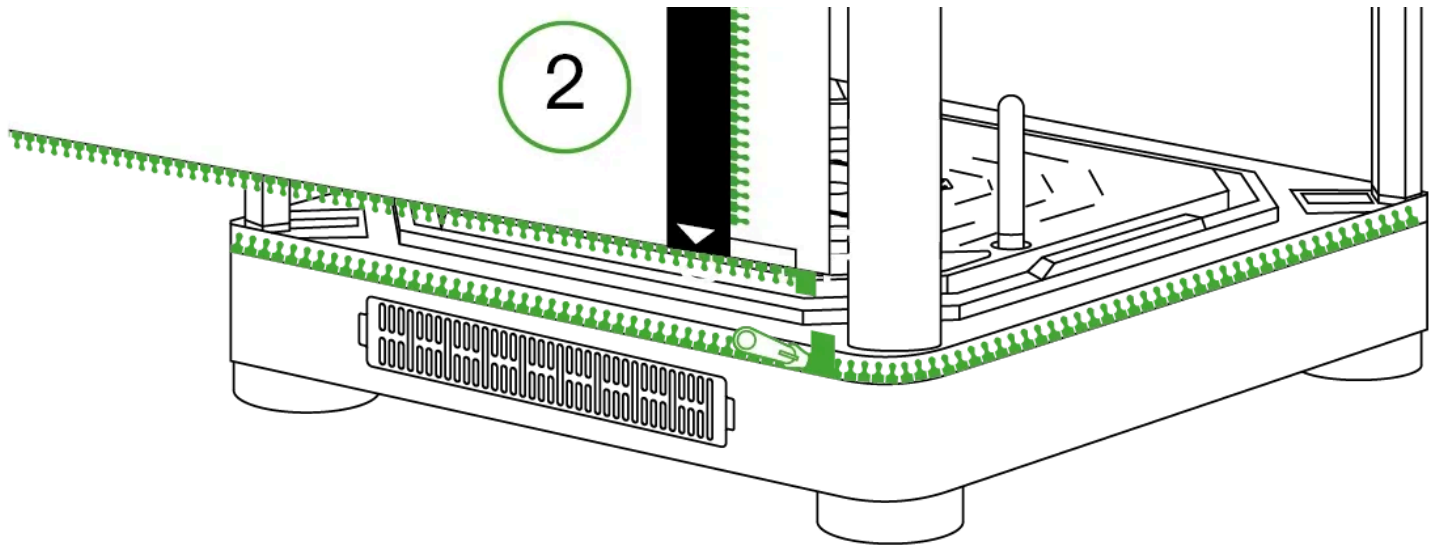
Black side: This black surface faces outwards.

White side: This white side with the imprinted Plant Height Chart should face toward the interior of the grow box.

Zip the skin, starting with the TOP zipper first. Continue with the Bottom zipper.

Finish by sealing the BACK zipper completely.

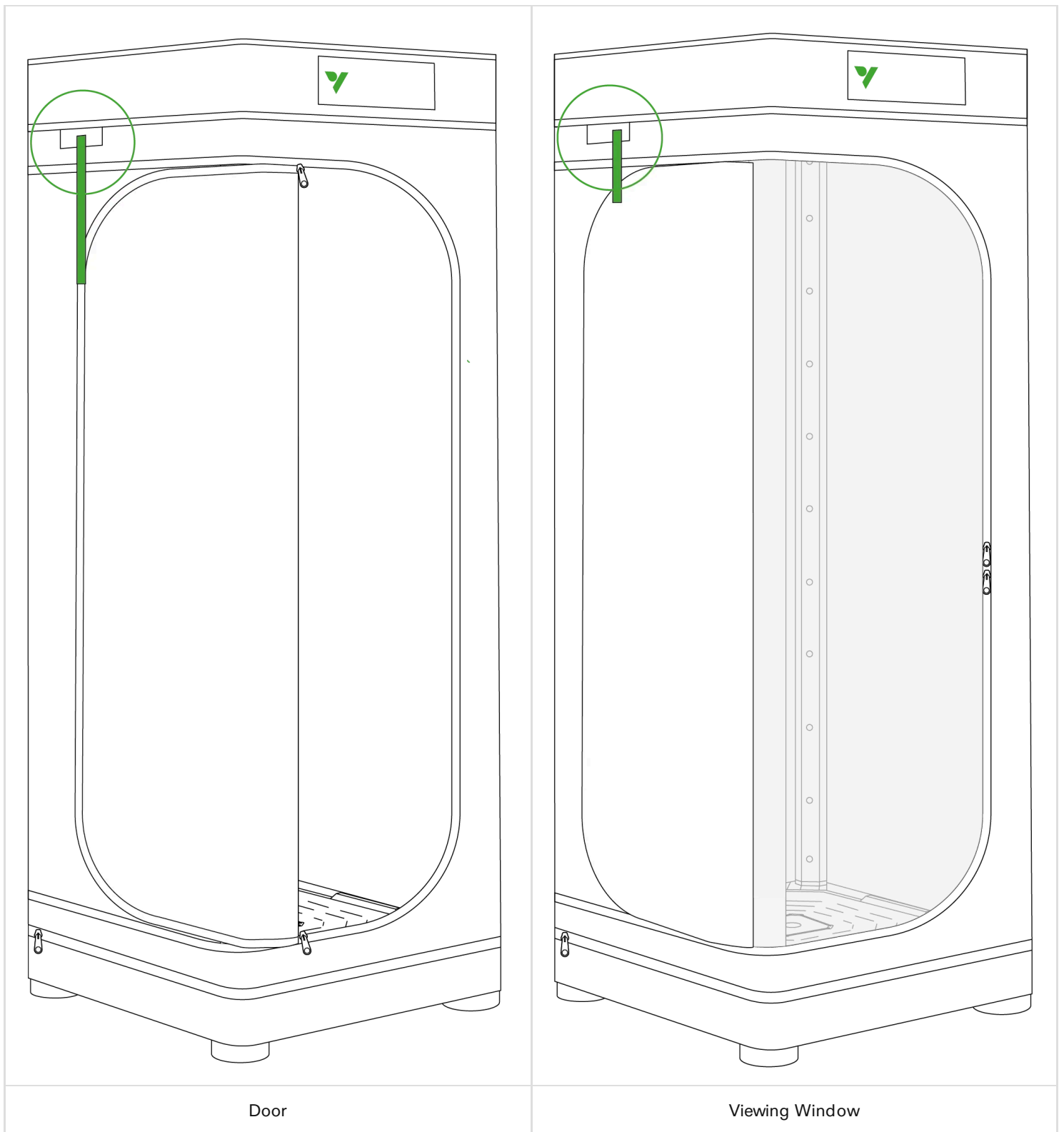




Number	Description
□	STEP 1 Top Zipper
□	STEP 2 Bottom Zipper
□	STEP 3 Back Zipper

Step 4.2 Attaching the Skin

The viewing window and door can be attached to the left-side of the grow box using Velcro strips.



Step 5 Inserting the Water Meter/Sensor

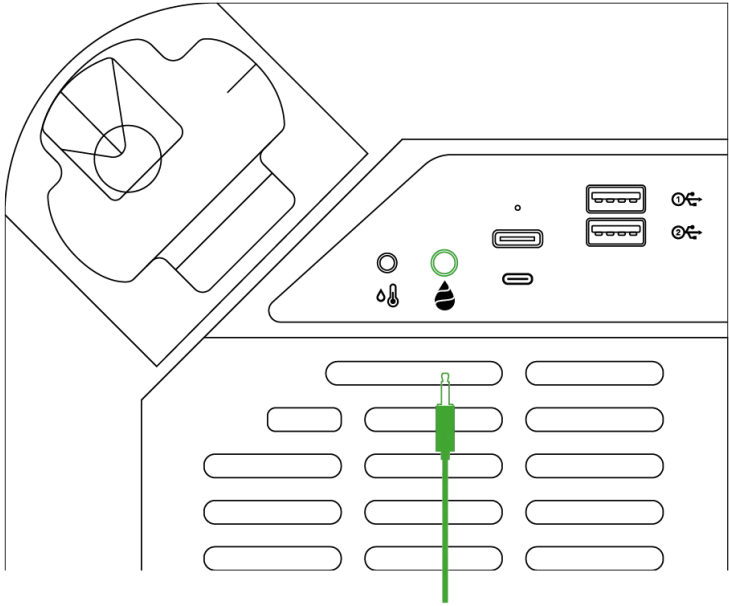
Insert the water meter into the designated water meter hole on the self-watering pot lid.

Insert the water level sensor into the designated water level sensor hole on the self-watering pot lid.

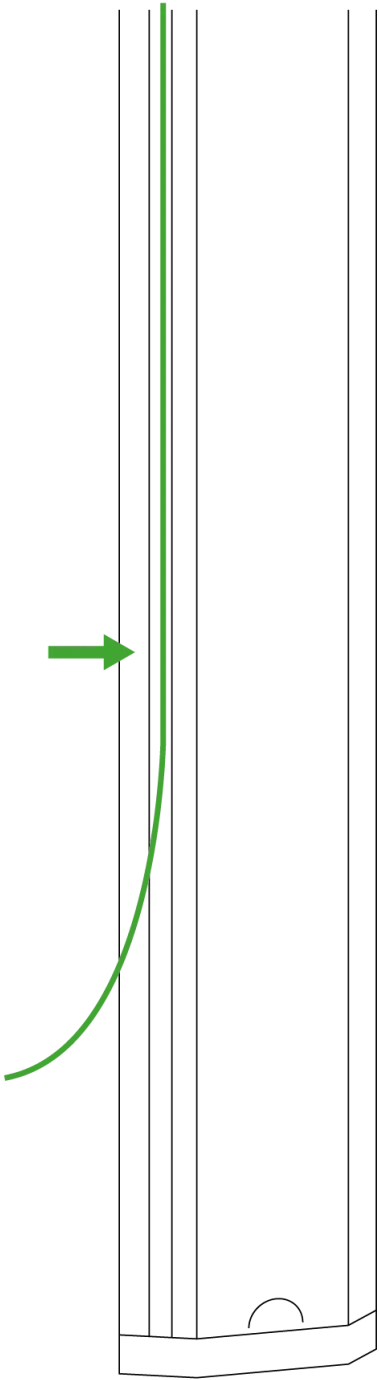
Connect the 3.5 mm jack from the water level sensor wiring into the corresponding 3.5 mm interface port.

Organize any excess wiring by tucking it neatly into the cable raceway channels along the vertical structural poles. This safely routes the cords while keeping the interior space clean.

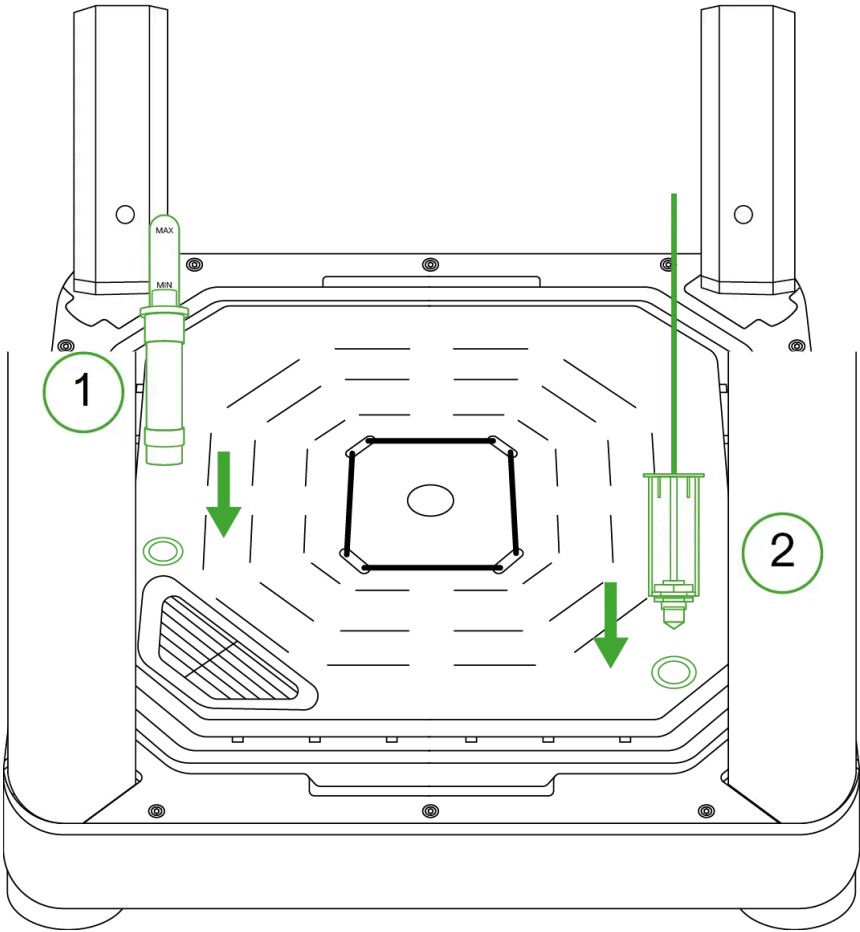
I



III



II



Number	Description	Number	Description
□	Smart Top Cover	□	Water Meter
□	Irrigation System Base	□	Water Level Sensor

Number	Description	Number	Description
□	Vertical Structure Poles		

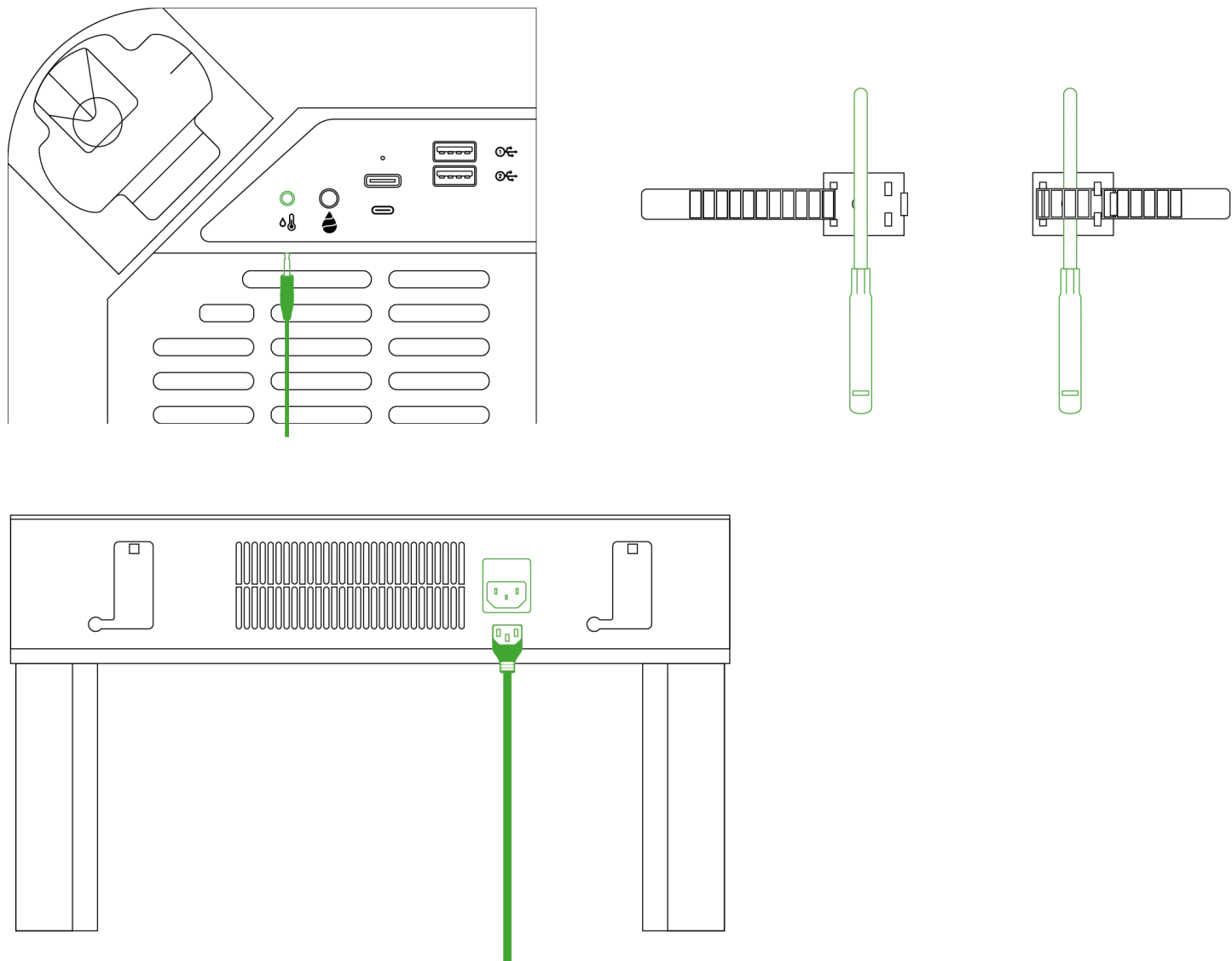
Step 6 Inserting the Temperature/Humidity Sensor

Insert the Temperature & Humidity Sensor into the designated 2.5mm Temperature & Humidity interface. Secure the sensor in place using a wire tie. Finally, plug the device into a power outlet to start your cultivation journey with VGrow!

Note:

It is recommended to position the Temperature & Humidity Sensor at a height ranging from 2 to 4 inches above the canopy.

Smart Top Cover



Step 7 Connect VGrow to VIVOSUN APP

Step 7.1 Download VIVOSUN APP

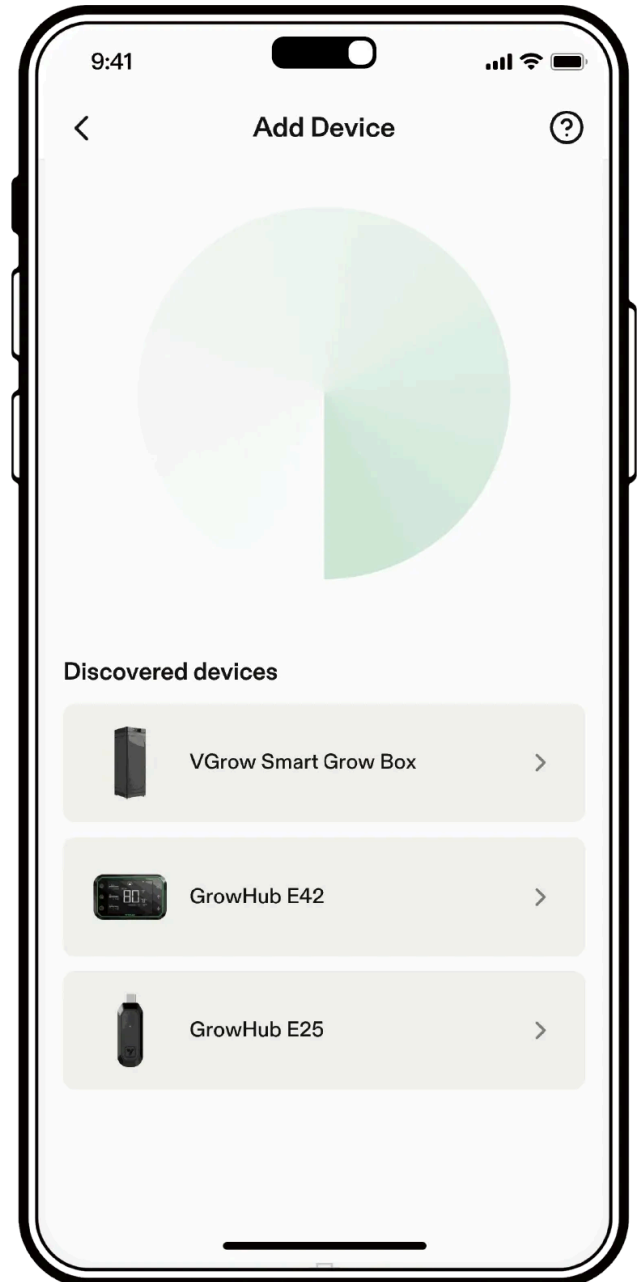
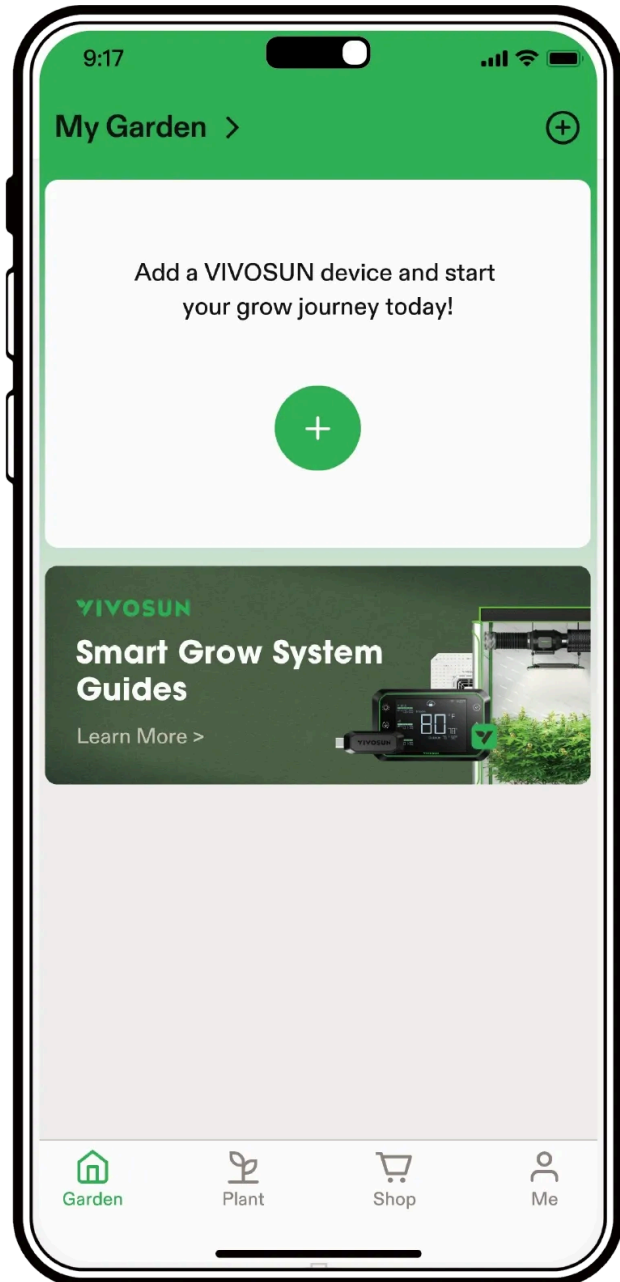
Search "VIVOSUN" in the Apple App Store or in the Google Play Store to download the VIVOSUN App.

Step 7.2: Add VGrow

Tap "+" or  to add VGrow. When connecting to VIVOSUN APP,  will flash on the LCD screen.

Note:

Make sure you have a 2.4G WiFi connection and that Bluetooth is enabled on your phone.



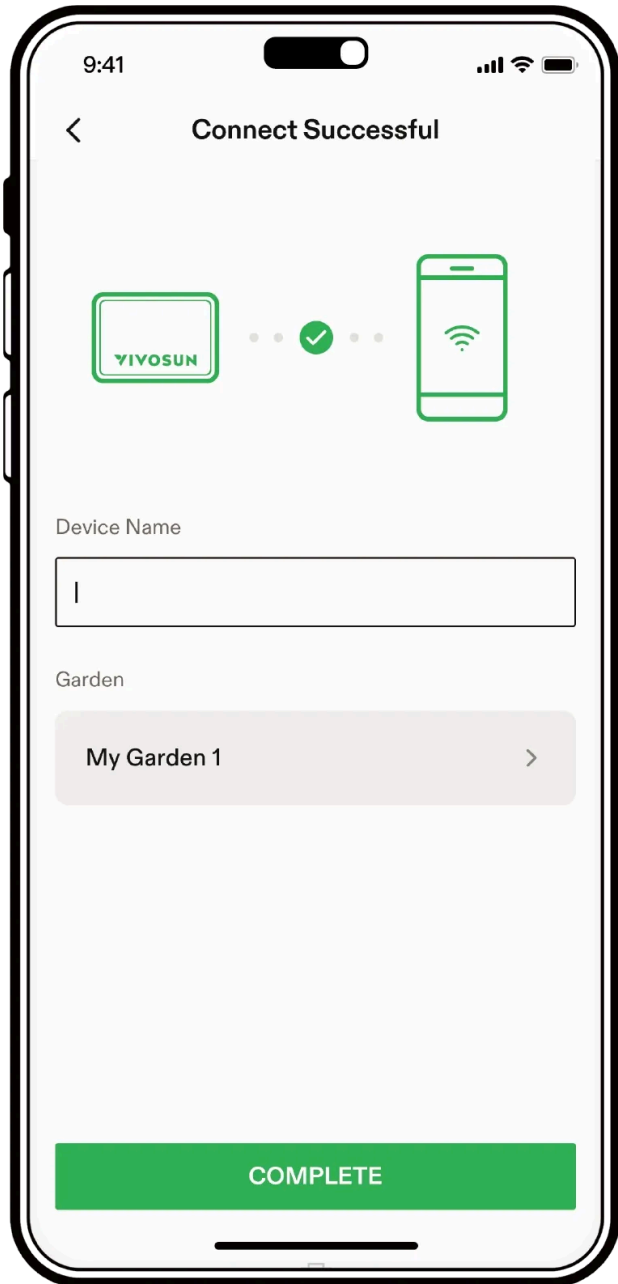
Step 7.3 Name Device

After connecting successfully, you can rename your device and start growing.

Note:

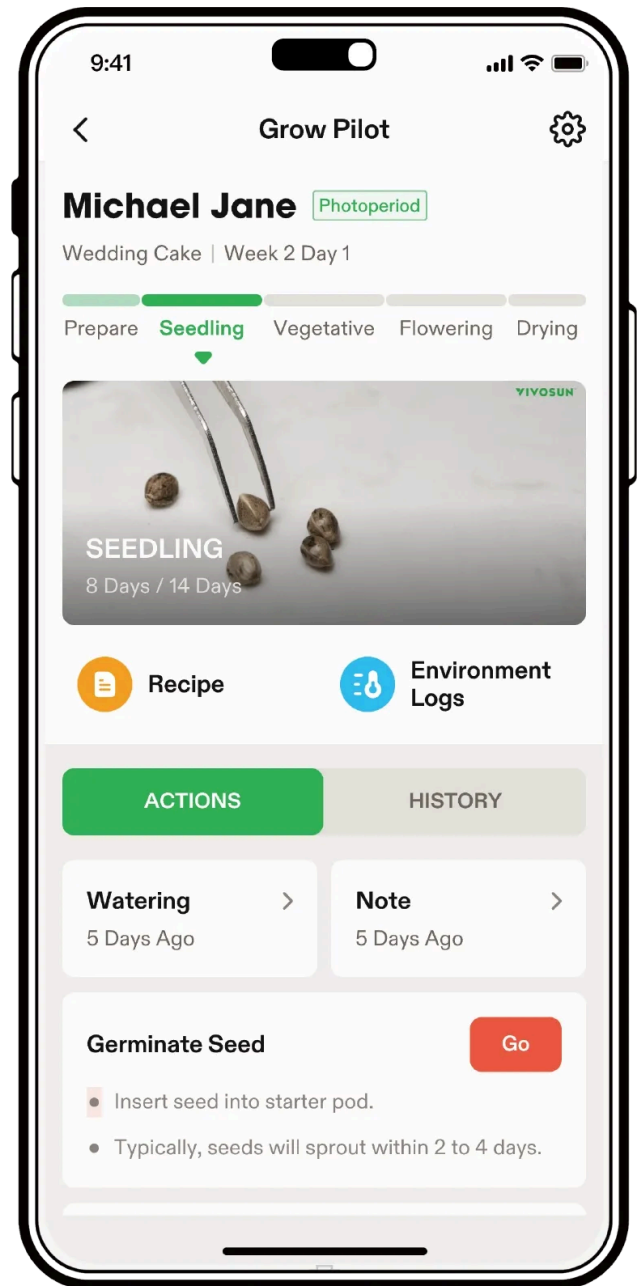
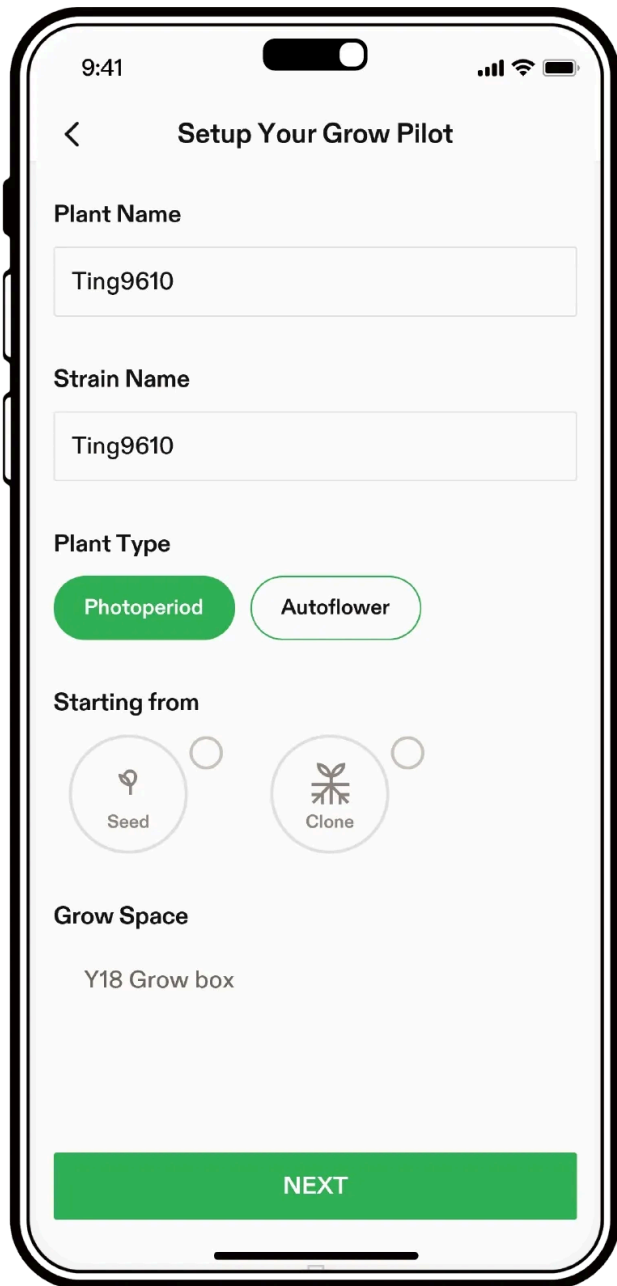
- You can create a new Garden or add VGrow to your current Garden to work with your GrowHub Controller E42/E42A/E25 if you have one.

- We suggest creating a new Garden so you can run a dedicated recipe for VGrow.
- Both VGrow and your GrowHub Controller E42/E42A/E25 will run the same recipe if they are in the same Garden.



Grow Pilot

Leveraging our expertise in both home and commercial cultivation, we've designed Grow Pilot to provide novice growers with a seamless cultivation journey. In addition to basic remote control and real-time data display, Grow Pilot automatically selects suitable growth recipes based on the user's chosen plant species. It then guides users through the entire cultivation process with step-by-step planting actions and checklists. Each action comes with detailed video tutorials to assist users in completing each growing phase, from seed to harvest. By optimizing conditions specifically for the selected plants and accompanying every step with instructions, Grow Pilot ensures a smooth and educational growing experience.



CONTROL INTERFACE

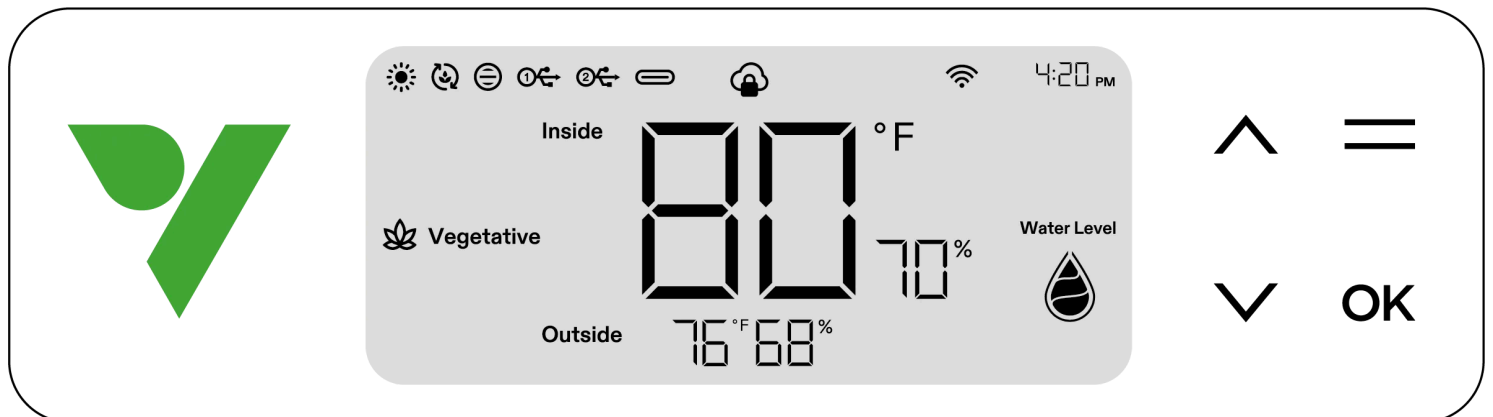
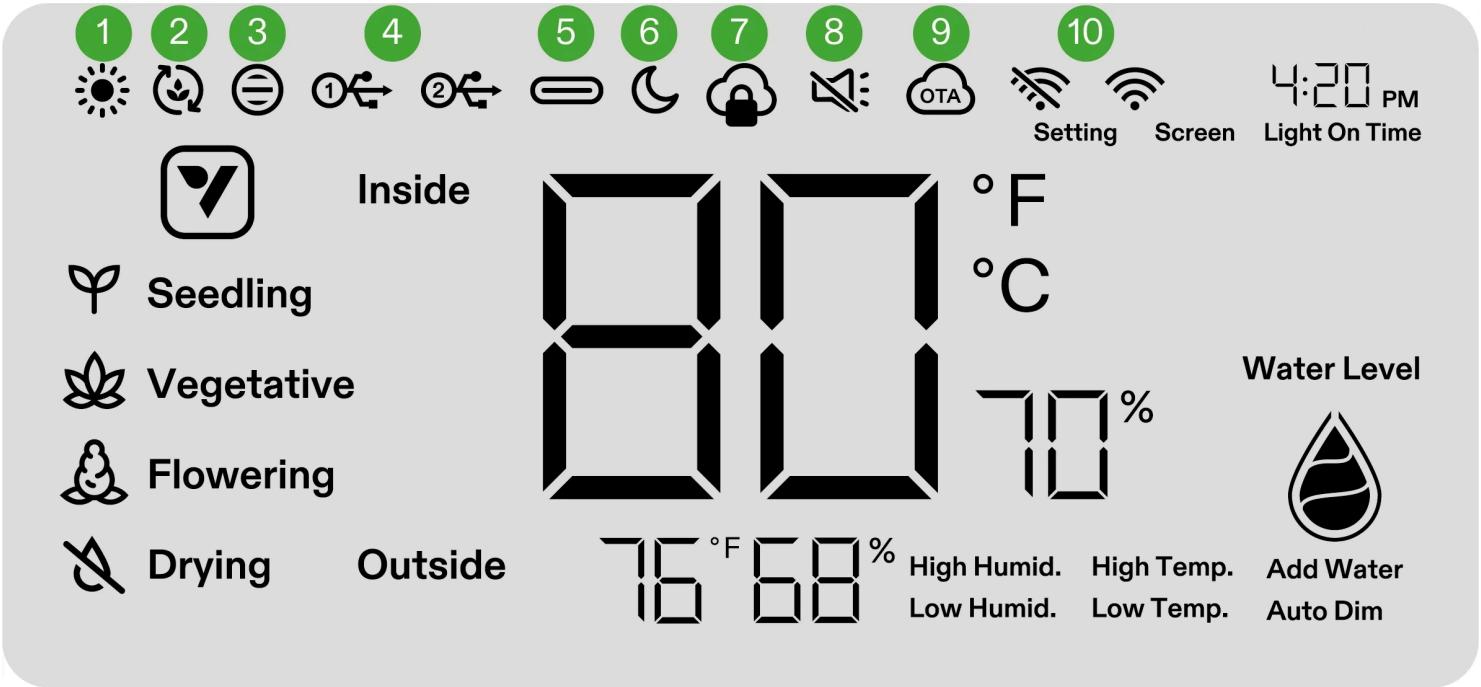
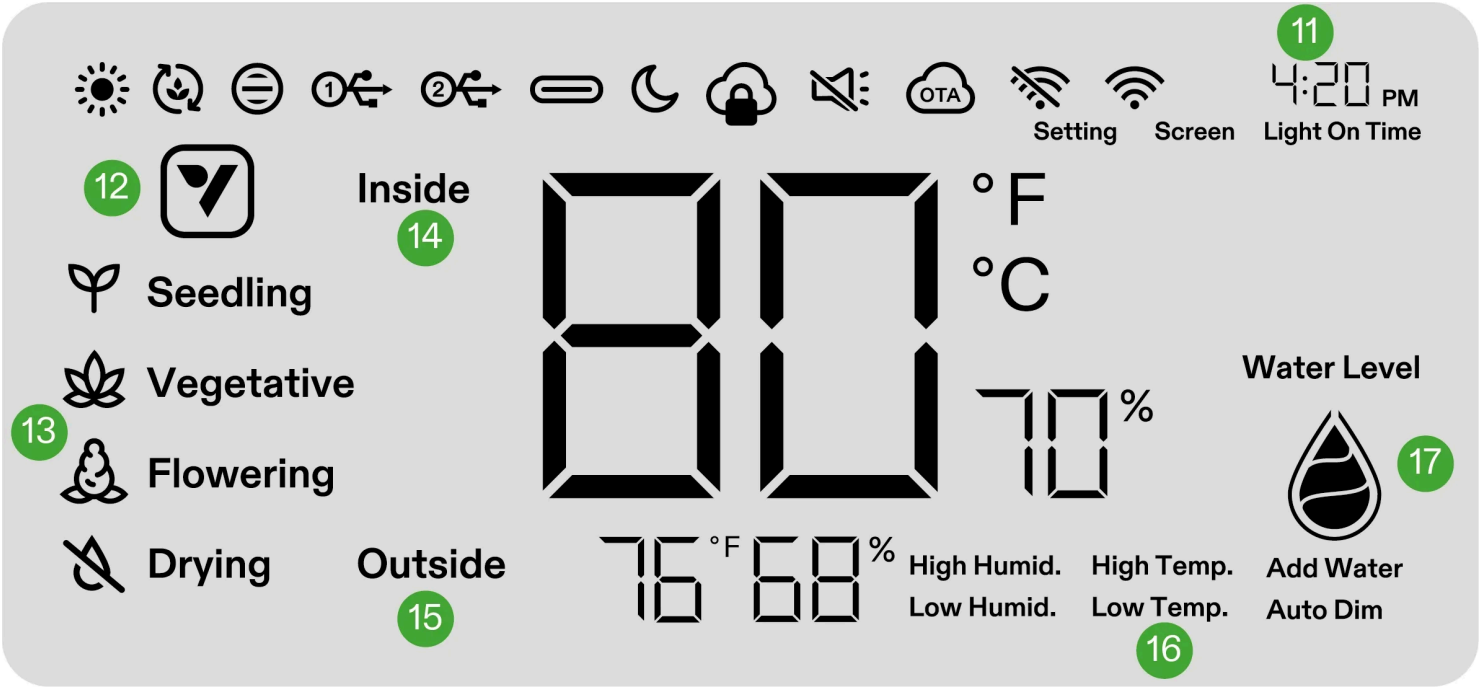


Image	Name	Control
	Up Button	Press the Up Button to increase value of current setting (time, stage, etc.). Press and hold to switch between °C and °F.
	Down Button	Press the Down Button to decrease value of current setting (time, stage, etc.). Press and hold to turn on/turn off Night Mode.
	Menu Button	Press and hold the Menu Button to enable selection between the Seedling, Vegetative, Flowering, and Drying stages.
	Confirm Button	Press the Confirm Button to confirm settings (time, stage, etc.). Press and hold to change system settings (time, screen brightness, etc.).
	Status Light	The Status Light remains on during regular operation. It pulsates or "breathes" when specific actions are required, such as topping, trimming, low-stress training (LST), pruning, etc. In the case of abnormal conditions or alarms, like high temperature/humidity, low temperature/humidity, or the need to add water, the Status Light will flash.



No.	Name	Description
1	LIGHT STATUS	Indicates light is on.
2	CIRCULATION FANS STATUS	Indicates circulation fans are on.
3	VENTILATION FAN STATUS	Indicates ventilation fan is on.
4	USB	Indicates whether the USB ports are currently providing power for connected devices.
5	TYPE C INTERFACE STATUS	Indicates if Type C interface device is working.
6	NIGHT MODE	Night mode for status light. Turn on Night Mode to turn off status light.
7	APP CLOUD LOCK	Indicates device is being controlled by the VIVOSUN APP and the local controls are locked.

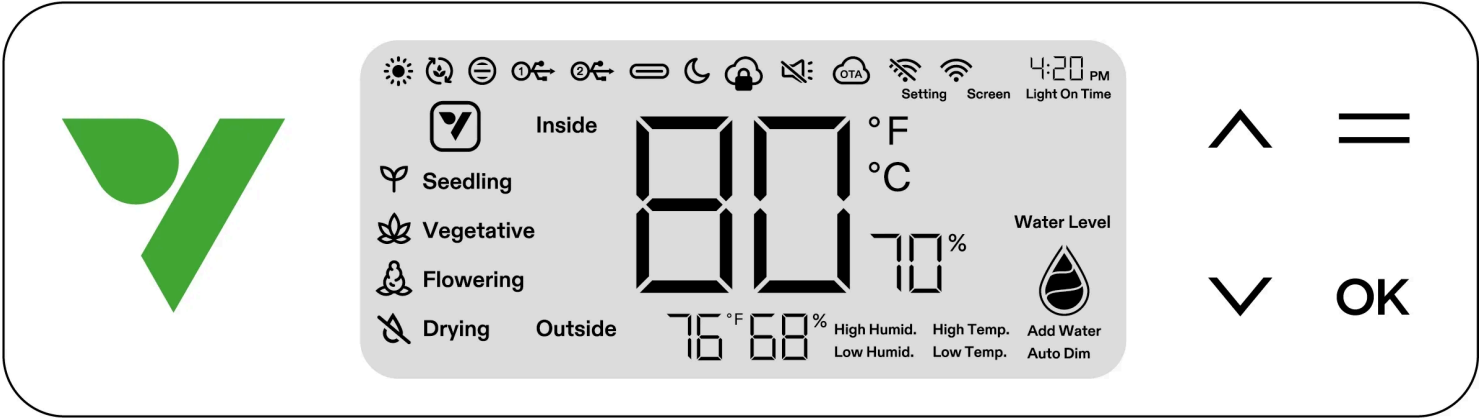
No.	Name	Description
8	MUTE	Displays when the key tone is set to mute.
9	OTA	Displays when firmware is under an “over-the-air” update.
10	WIFI ICON	Indicates WiFi connection and signal strength.  Displays if device is offline.



No.	Name	Description
11	TIME	Displays current time (automatically sets when the device connects to WiFi) or light on time when setting stage on local display.
12	ACTION ICON	Indicates there is an action to do on VIVOSUN APP.
13	STAGE	Displays current stage. Stage will not display when the device connects to WiFi until select a stage recipe on VIVOSUN APP.
14	INSIDE TEMPERATURE & HUMIDITY	Displays the temperature and humidity value inside the device.
15	OUTSIDE TEMPERATURE & HUMIDITY	Displays the ambient temperature and humidity.
16	ALARM	Indicates alarms for High Humid., High Temp., Low Humid., Low Temp., Auto Dim and Add Water.
17	WATER LEVEL	Indicates Water Level for self-watering pot.

OPERATION

SCREEN DISPLAY



Status	Status Light Night Mode OFF	Status Light Night Mode ON
Normal operation	Always On	OFF
Actions	Pulsating	OFF
Alarms	Flashing	OFF

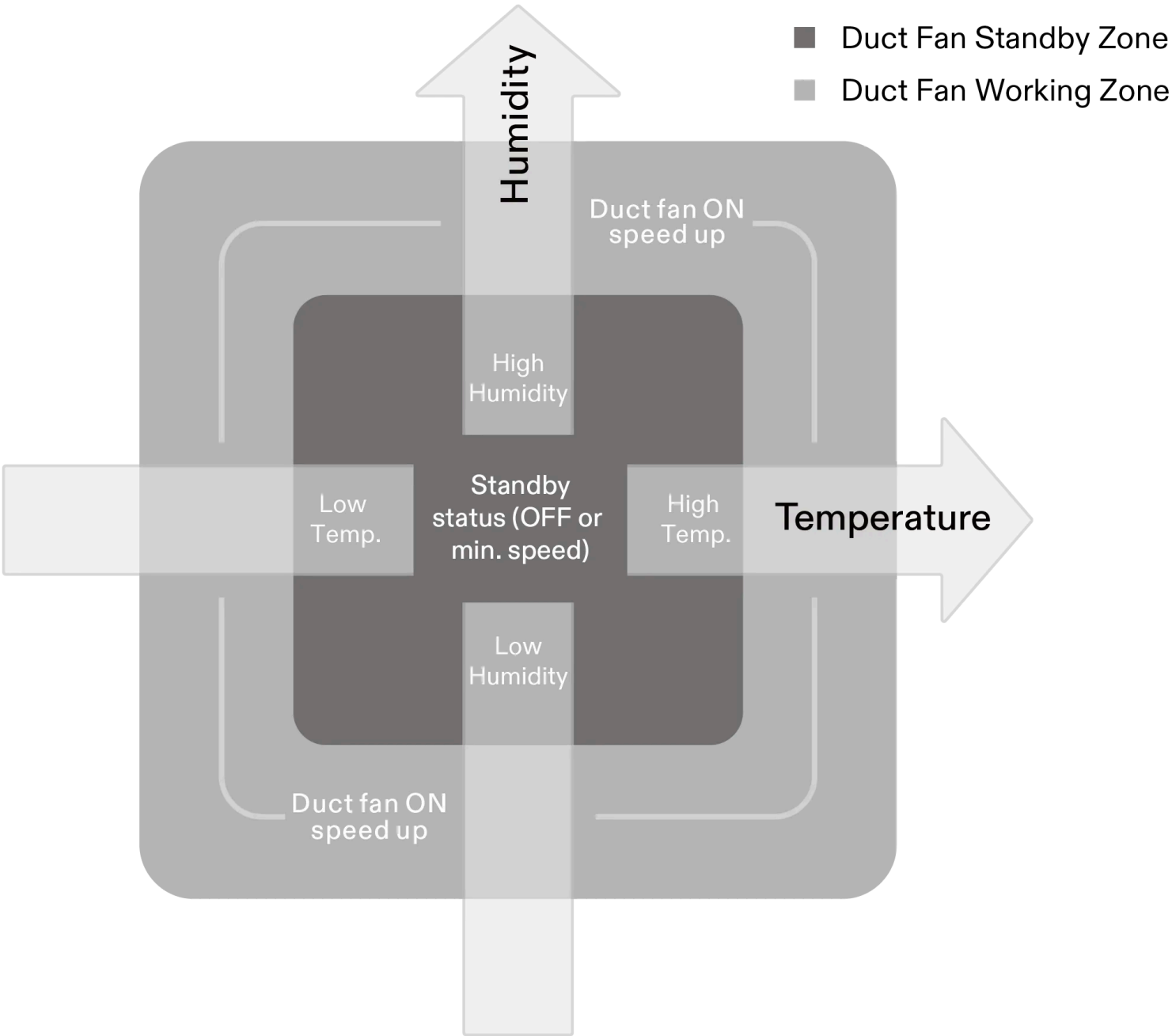
Screen Display	Alarm
Temperature Value and High Temp. flash, Auto Mode activated.	Temperature is too high (Temperature trigger set on VIVOSUN APP) and need to lower the temperature.
Temperature Value and Low Temp. flash, Auto Mode activated.	Temperature is too low (Temperature trigger set on VIVOSUN APP) and need to increase the temperature.
Humidity Value and High Humid. flash, Auto Mode activated.	Humidity is too high (Humidity trigger set on VIVOSUN APP) and need to lower the humidity.
Humidity Value and Low Humid. flash, Auto Mode activated.	Humidity is too low (Humidity trigger set on VIVOSUN APP) and need to increase the humidity.
Low Water Level and Add Water flash.	Lack nutrients for plants and need to add nutrients to self-watering pot.
Temperature Value and Auto Dim flash, Auto Mode and Auto Dim Mode activated.	Inside temperature is too high (Temperature ≥ 33°C / 92°F). If temperatures climb above optimal ranges, the Auto-Dimming mode gradually decreases light intensity to control excessive heat buildup. Lights will remain active at reduced output.

AUTOMODE - OPERATIONAL EXPLANATION

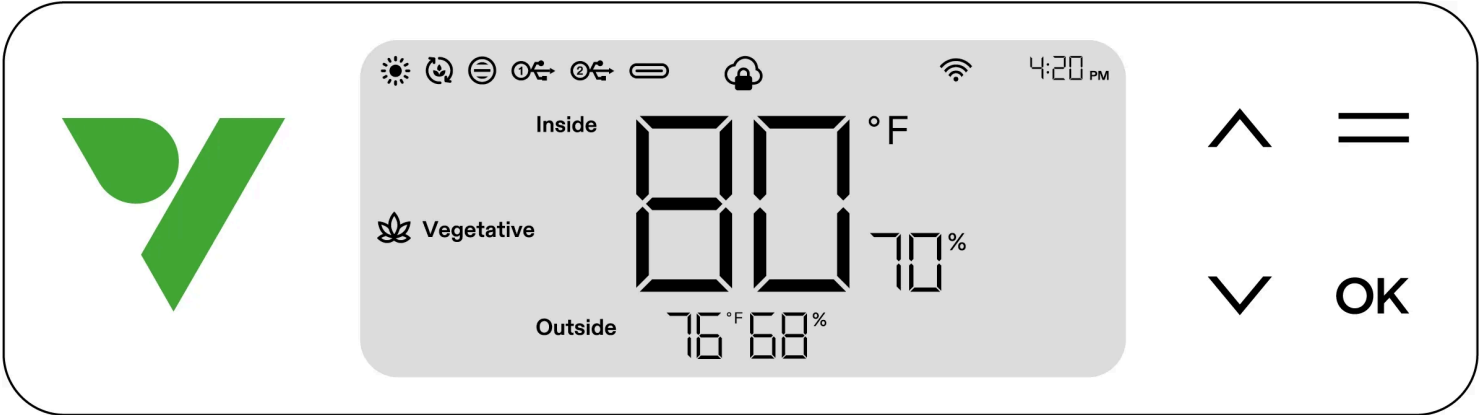
Settings for the thresholds differentiating the duct fan standby zone from the working zone can be adjusted through the VIVOSUN App. Within the VIVOSUN App, you have the flexibility to configure the duct fan's operation mode during standby, opting to keep it OFF or run it at a minimum speed level.

In the VIVOSUN App, you can establish temperature and humidity thresholds, triggering the duct fan to activate or adjust speed levels accordingly. As the environmental conditions deviate further from the set thresholds, the fan speed will correspondingly increase.

Furthermore, if the temperature or humidity surpasses the preset levels, the respective values on the display will flash, providing a visual indication that the conditions are outside the defined parameters.



LOCAL OPERATION



Buttons	Press	Long Press	
	Increase a setting's value when configuring parameters.	Switch Temp Between °C and °F Display	1. Press and hold both the UP and DOWN buttons on the device at the same time. Hold for a duration of 3 seconds. 2. When holding the buttons for the first 3 seconds, four short beeps will sound to confirm you are in the reset process mode. 3. Continue holding the buttons after the short beeps. 4. After holding the buttons for an additional 2 seconds, one long beep will sound, signaling the completion of the reset process.
	Decrease a setting's value when configuring parameters.	Turn on/Turn off Night Mode	
		Enter seedling, vegetative, flowering and drying stage selection mode	
	Confirm settings	System settings for time (local display), mute and screen brightness	

For ultimate convenience, we suggest connecting your VGrow Smart Grow Box to the VIVOSUN app. This allows you to monitor and control your grow environment from anywhere via your smartphone or tablet, whether relaxing at home or traveling abroad.

Utilizing the app unlocks additional capabilities and functions that enhance the overall user experience.

VGrow also provides a user-friendly standalone operating mode. All critical controls and parameters can be applied directly through the local control panel display for out-of-box functionality without the app. This ensures the essential controls are readily available for all users in a streamlined interface.

1. Select the Stage

If no stage is selected, the display will cycle through four stages: Seedling, Vegetative, Flowering, and Drying. To manually select a stage, press the Menu Button to activate stage selection. Use the Up, Down, and Confirm buttons to choose between Seedling, Vegetative, Flowering, and Drying stages. After selecting a stage, you can further customize the light-on time (stage start time) by pressing the Up, Down, and Confirm buttons. Hold the Menu Button for 3 seconds to change the stage next time.

Note:

The local stage parameters have been preset by our growth experts. If you wish to customize your own stage parameters, kindly connect to the VIVOSUN APP for personalized settings and control.

-  Seedling
-  Vegetative
-  Flowering
-  Drying

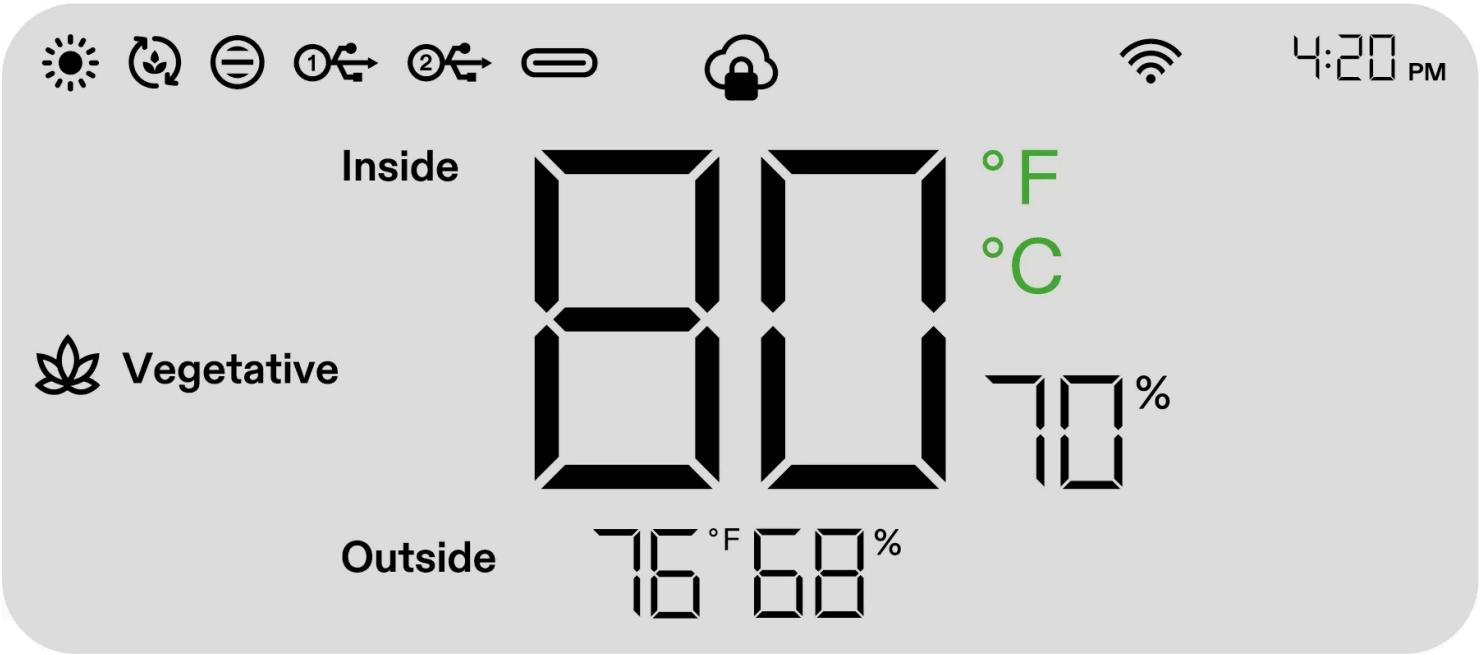
4:20 PM
Light On Time

		Seedling	Vegetative	Flowering	Drying
Grow Light	Spectrum	Seedling	Vegatative	Flowering	/
	Intensity	60%	80%	100%	OFF
	ON/OFF Cycle	18h/6h	18h/6h	12h/12h	OFF
	Sunrise/Sunset	ON	ON	ON	OFF
Circulation Fan	ON/OFF Cycle	25min/5min	25min/5min	55min/5min	25min/5min
	Speed	1	Natural Wind	10	3

Duct Fan	Mode	Auto	Auto	Auto	Auto
	Max Speed	10	10	10	10
	Temperature Range	Min: OFF Max: 29°C (85°F)	Min: OFF Max: 29°C (85°F)	Min: OFF Max: 29°C (85°F)	/
	Humidity Range	Min: OFF Max: 85%	Min: OFF Max: 75%	Min: OFF Max: 60%	Min: OFF Max: 55%
	Standby Speed	0	1	1	1
Drip Irrigation Pump	ON/OFF Cycle (one hour after lighting)	5min	20min	35min	/
	Flow Rate	200ml	1000ml	1400ml	/

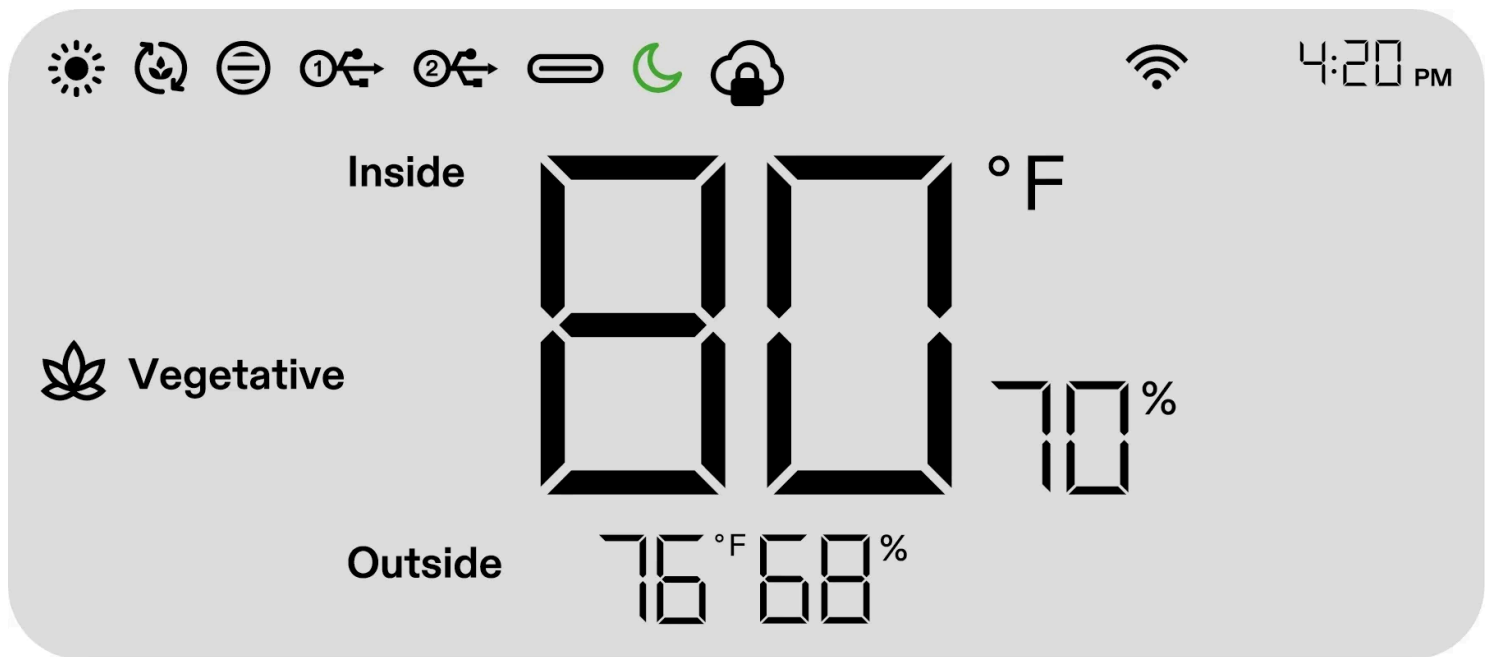
2.Switching Between Temperature Units (°F/°C)

Press and hold the Up button for 3 seconds to switch between °F and °C.



3.Night Mode

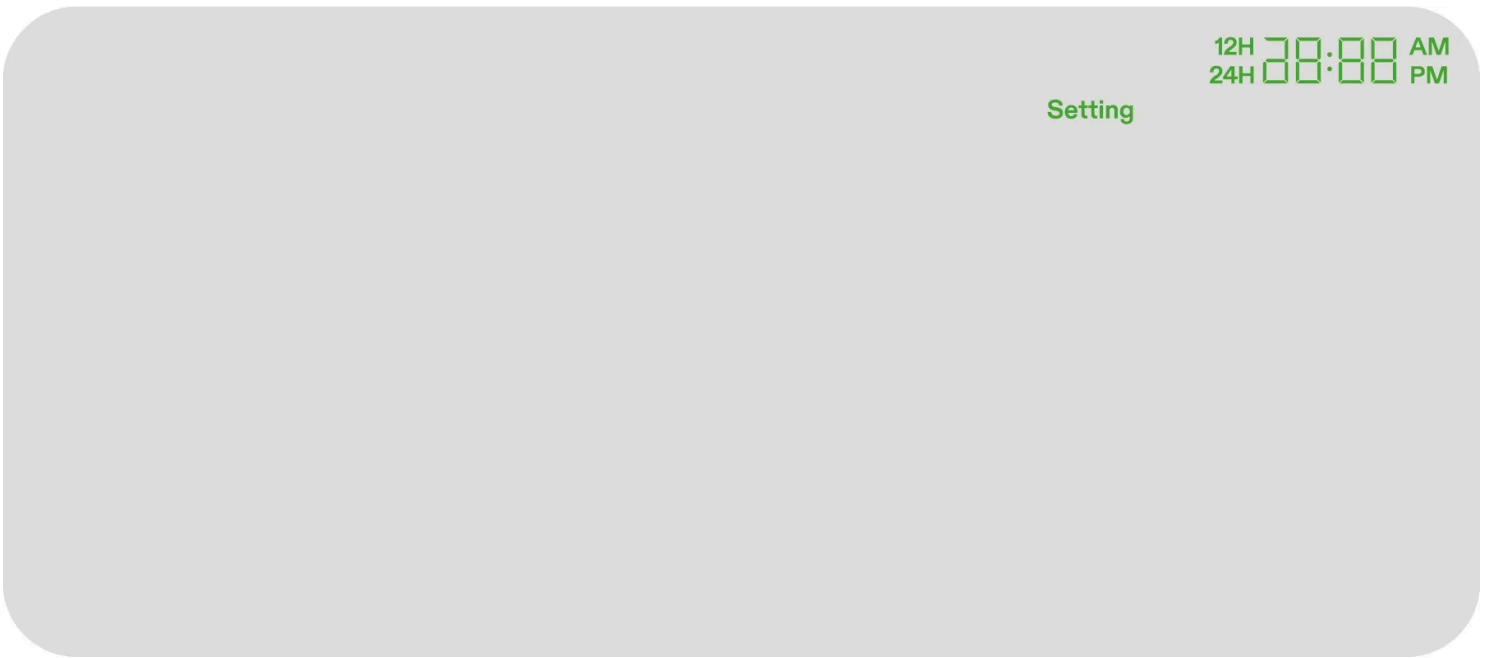
Press and hold the Down button for 3 seconds to turn on/turn off Night Mode.



4. Calibrating the Time

Press and hold the OK button for 3 seconds to enter system settings. Use the Up and Down buttons to choose between the 12-hour (12H) or 24-hour (24H) format. Adjust the hour and minute settings accordingly. Press OK to confirm.

Note: Time will automatically update when connected to WiFi.



5. Setting the Key Tone

Press and hold the OK button for 3 seconds to enter system settings. Use the OK button to navigate the menu and select "keytone". Use the Up, Down, and Confirm buttons to toggle the keytone on or off. If the keytone is off, a  will be displayed.



Setting

6.Adjusting Screen Brightness

Press and hold the OK button for 3 seconds to enter system settings. Use the OK button to navigate the menu and select "Screen". Adjust the screen brightness by pressing the Up, Down, and Confirm buttons.

Setting Screen



Warranty

VIVOSUN offers a 2-year limited warranty on this product purchased directly from us or our authorized dealers, beginning on the original date of purchase.

This warranty is provided in addition to, and does not affect, your statutory rights under applicable consumer protection laws in the country where the product was purchased.

For the full Warranty Policy, please visit: <https://www.vivosun.com/help/warranty-policy>

Alternatively, you may contact customer service at support@vivosun.com / +1 888-505-8486.