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VIVOSUN

Growing Green Guide

GROWING HEMP X VIVOSUN

Growing Hemp x Vivosun

Check local horticultural and controlled substance laws before starting your grow.

Contents

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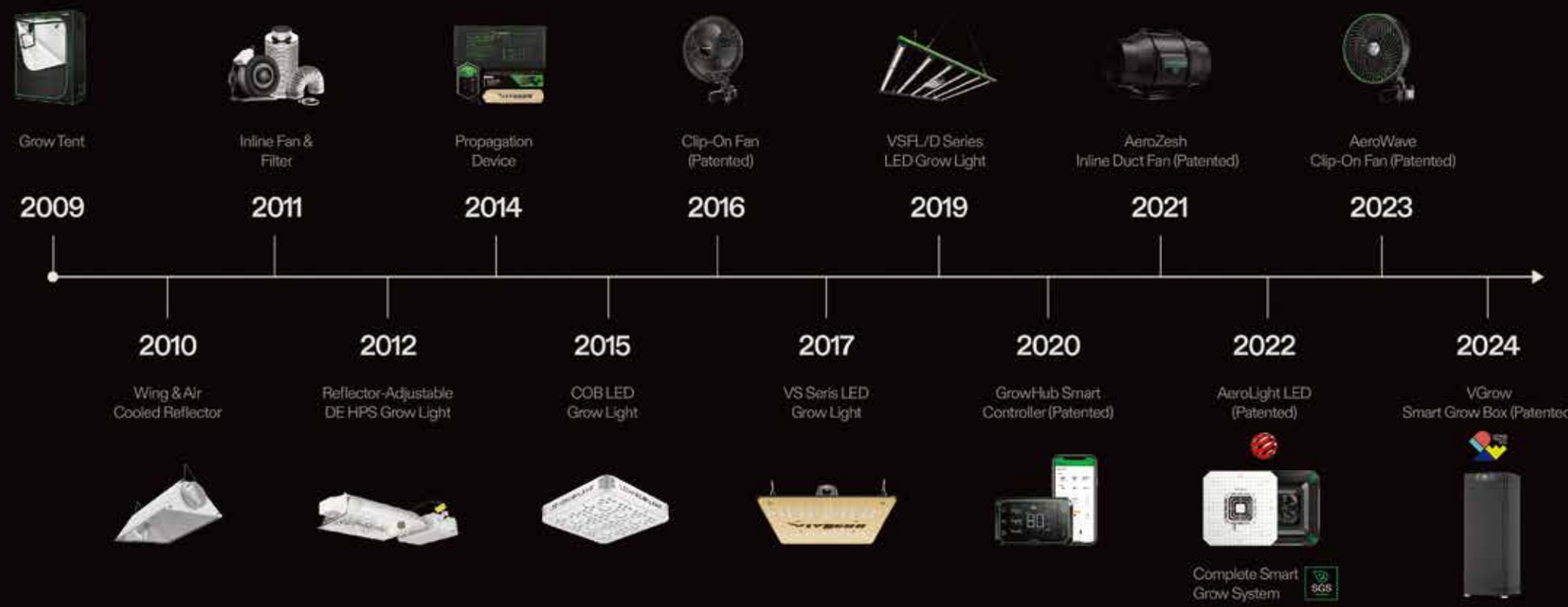
VIVOSUN
Brand Story

At Vivosun, we believe in the transformative power of growing. From our roots as passionate growers, we've evolved into a global leader in indoor growing technology, reaching millions across 15 countries. Our vision is simple yet powerful: to make indoor growing accessible to everyone.

This vision rests on three fundamental pillars: **Innovation Through Research, Quality and Value,** and **Growing Together**. From our first grow tent to our latest smart technology, each innovation reflects our commitment to advancing indoor growing and delivering on our promise of quality. Alongside our invaluable community, we work to support you throughout your growing journey because, whether you choose our professional SGS system or the innovative VGrow Smart Grow Box, you are part of a movement that's reshaping personal cultivation.

As we look to the future, our innovation extends beyond growing. We're set on creating an integrated ecosystem that enhances every phase of the cultivation journey. Join us in building a future where everyone can experience the joy of growing their own.



02

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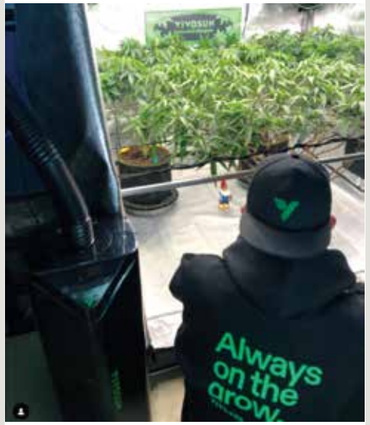
User Stories

Riley West ★★★★★

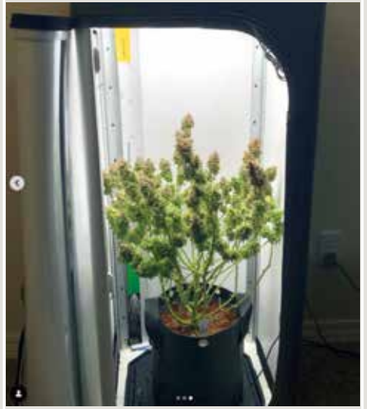
“ When you go with Vivosun, you are investing in your future grows ten fold.
With High Quality Gear at home, you can trust in the process of your grow. Whether you want to be very hands on and meticulous with your plants or be laid back and just let the plants do their thing: Vivosun has your back on many levels. Innovation is a key focal point with this company and that was a big selling point for me.
I’m glad I started my grow journey with Vivosun.
Things can only go up from here. ”

“ Before discovering Vivosun, I often settled for whatever equipment was available, but that changed when I purchased my first Vivosun kit—a 4x2x60 tent kit at an unbeatable price. The excitement of unboxing it was matched only by the immediate results; within a week, my plants began thriving like never before. This experience opened my eyes to the quality of Vivosun products, prompting me to replace all my equipment with theirs. The full-spectrum VS 1000 light included in the kit was so effective that I quickly bought a second one to maximize my growing space. The difference in plant growth was remarkable, leading me to expand my setup further. Today, my grow is supported by Vivosun’s VSFD6500 lights, multiple tents, H19 humidifiers, GrowHub’s, T6 duct fans, E6 oscillating fans, and carbon filters. The VSFD6500 is a game changer, far surpassing any other lighting I’ve used. Pairing it with the GrowHub and AeroStream creates an ideal environment for my plants to flourish. Vivosun equipment has significantly accelerated my gardening success and helped me unlock the maximum potential of my indoor plants. I wholeheartedly recommend all of their products for anyone serious about indoor gardening. Love what you grow! ”

Thehumblecannafarmer



★★★★★



Tx_ghost50 ★★★★★

★★★★★

“ Years ago, I purchased a Vivosun grow tent kit (tent, light, exhaust fan etc.), and it was great. It was simple to set up and easy to control, though everything was manual. Over time I also learned about their excellent Facebook community. You can ask anything, and they’ll always help you out.
When they released the aerolight and the smart grow system, I decided to order the 4x4 complete smart grow kit. Once the new kit arrived, it was clear they had put a lot of work into developing the system. It’s simple to use, and the grows have been incredible. It’s worth every penny!
Want small and discreet? Choose VGrow. It’s simple, all-in-one, and alongside the Vivosun app, you won’t be disappointed.
Want something bigger? Check out their smart grow tent kits. There’s a lot of choice and you can customize your set up.
From equipment to customer service, I assure you Vivosun really does have everything you need.
Good luck in your new journey! ”

03

Smart Grow System

The Vivosun Smart Grow System (SGS) is a fully automated solution designed to simplify and optimize the cultivation process. This all-encompassing system includes the GrowHub Controller and the Vivosun App, which together manage all your growing devices — such as grow lights, ventilation duct fans, circulation fans, humidifiers, cameras, and future smart devices like climate control and irrigation systems.

The SGS provides automatic control over equipment and climate conditions, remote monitoring, and personalized growth recipes through an intuitive user interface. It also features the GrowPilot tool within the app, offering step-by-step growing instructions from seed to harvest. Whether you're an experienced grower or a beginner, this innovative system is designed to make plant cultivation easier and more convenient.

Flexible

Supports multiple integration methods

Compatible with mainstream devices

Specialized

Specialized system for growing

Tailored grow recipes and GrowPilot

Secure

Advanced encryption algorithms

AWS-based cloud service

Reliable

Operates without internet

Auto-resumes operation after a power outage

Convenient

Supports OTA updates to maintain optimal performance

Easy

Plug and play installation

Intuitive UI Design

Vivosun App

Unlock the full potential of the Smart Grow System with the Vivosun App and enjoy growing on another level.

Download on the App Store

GET IT ON Google Play

Easily master every grow element:

Water | Nutrition | Humidity | Temperature | Air | Light

Anytime, Anywhere

Control & monitor your grow remotely, entirely through your phone

Easy Grow

Data log for easy problem solving and diagnostics — receive alerts for abnormal conditions

Grow Recipes

Fully automated environmental control covering the whole plant life cycle, based on growing methods backed by experts

Grow Pilot Algorithm

Guides users through the entire cultivation process with step-by-step instructional videos, actions, and checklists

04

Hero Products

reddot winner 2022

AeroLight

2-in-1 Grow Light

Introducing AeroLight, the world's first 2-in-1 grow light with an integrated circulation fan. Designed for efficiency, it enhances photosynthesis and helps to maintain consistent growth. The built-in fan improves airflow, boosting transpiration rates, preventing mold, and maintaining optimal CO2 levels. This innovative design promotes healthier plants by ensuring optimal growing conditions.

AeroLight Wing builds upon the AeroLight with the addition of two adjustable panels that extend the width of the light. Both the coverage and the intensity can be easily adjusted by positioning the panels at the optimal angle. Equipped with full spectrum diodes, AeroLight Wing delivers the ideal amount of light for all stages of growth, promoting healthier buds and increased yields.

KEY FEATURES:

- Tunable Spectrum
- Better Circulation
- Uniform Light & Airflow

VGrow
Smart Grow Box

All-In-One Ecosystem • Sleek and Discreet

The VGrow Smart Grow Box enables high-quality growing in a compact, stylish design that fits anywhere in your home. Its sleek, discreet look keeps your grow low-key, while the all-in-one smart system makes growing easy and efficient. With VGrow, you can achieve exceptional results with minimal effort. Whether you're a beginner or experienced grower, VGrow's intuitive app and Grow Pilot ensure a successful and enjoyable growing experience.

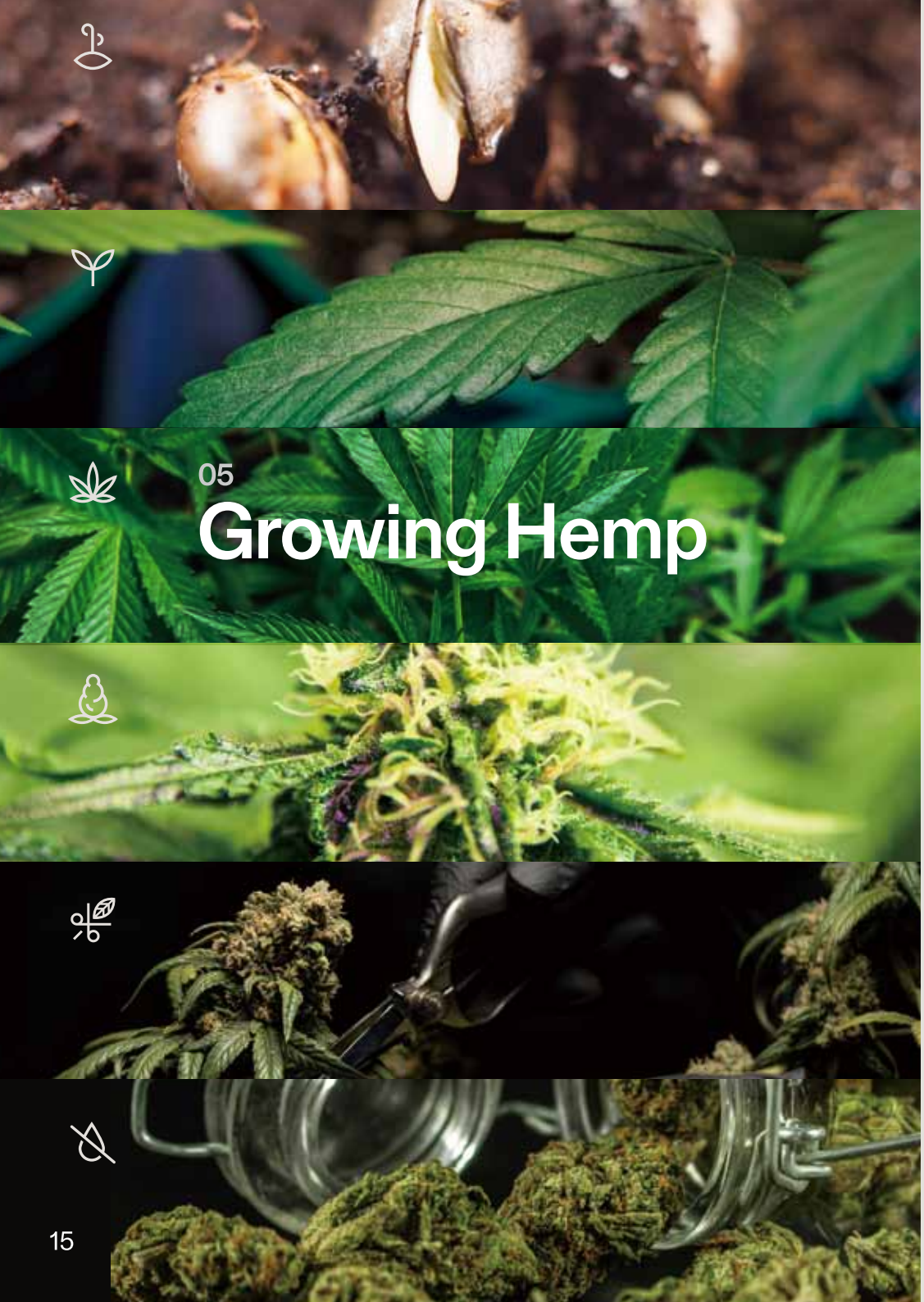
FEATURED FINALIST 2024

Optional Equipment (As Needed):

Humidifier/Dehumidifier
Used to maintain optimal humidity levels.

Hygrometer/Thermometer
Essential for monitoring temperature and humidity of the environment.

Irrigation
Choose an irrigation method based on your preference, such as self-watering, drip irrigation, or Deep Water Culture (DWC).



05

Growing Hemp

This guide provides a comprehensive overview of how to grow hemp, including detailed information on each stage: germination, seedling, vegetative, flowering, harvesting, drying and curing. Each section outlines essential techniques, recommended environmental conditions, and suggested products from Vivosun to ensure optimal growth and maximum yields.

Overview of Growth Stages

Germination

The journey begins with germinating the hemp seeds, a crucial stage where seeds sprout and develop roots and initial leaves. Correct moisture, light levels, and warmth are essential for successful germination.

Seedling

Once the seeds have sprouted, they enter the seedling stage. During this phase, the plant begins developing its first true leaves, distinct from the round cotyledon leaves. At this stage, the plant requires 18–24 hours of light daily and consistent, but not excessive, moisture in the growing medium. Humidity levels between 65–80% help prevent the seedling from drying out. Nutrient needs remain minimal, as the plant relies on stored energy in the seed.

Vegetative

Once germinated, the plant enters the vegetative stage, focusing on developing strong roots, stems, and dense foliage. During this phase, the plant requires ample light, nutrients, and water to support rapid growth. Techniques such as topping, trimming, and Low-Stress Training (LST) are applied to shape the plant and maximize yield potential.

Flowering

The flowering stage is when the plant shifts its energy towards producing buds. Adjusting the light cycle stimulates flowering, while optimal temperature, humidity, and ventilation are essential. Techniques such as LST and lollipopping are often employed to enhance bud production and ensure even light distribution.

Harvesting

Once the buds mature and reach their peak potency, it's time to harvest. Harvest timing is critical, as it directly impacts the quality and potency of the final product. Careful cutting and handling are required to preserve the delicate trichomes and terpenes. After harvesting, trim the buds by removing excess leaves and branches to enhances their appearance, potency, and quality. This step is essential for preparing the buds for the drying and curing process, ensuring a smooth and potent final product.

Drying and Curing

Proper drying and curing is essential to enhance the flavor, aroma, and potency of the buds. During this stage, the buds are slowly dried in a controlled environment to reduce moisture content, then cured in airtight containers to allow the cannabinoids and terpenes to fully develop.

Indoor Growing

Setting Up Your Indoor Grow Space

When growing indoors, creating an ideal environment for your plants is crucial. This involves managing the temperature, humidity, lighting, ventilation, and air circulation. To achieve the best results, consider using a grow tent kit paired with essential components like grow lights, inline duct fans, and circulation fans. Alternatively, an all-in-one grow box provides an ideal environment for plants to thrive.

Essential Components:

Grow Tent
Choose a tent based on your available space and the number of plants you intend to grow.

Grow Light
LED lights are commonly used for their efficiency.

Ventilation
Include an inline duct fan, ducting, and a carbon filter to control odors and airflow.

Circulation
Use circulation fans to maintain air movement within the tent.

Optional Equipment (As Needed):

Humidifier/Dehumidifier
Used to maintain optimal humidity levels.

Hygrometer/Thermometer
Essential for monitoring temperature and humidity of the environment.

Irrigation
Choose an irrigation method based on your preference, such as self-watering, drip irrigation, or Deep Water Culture (DWC).

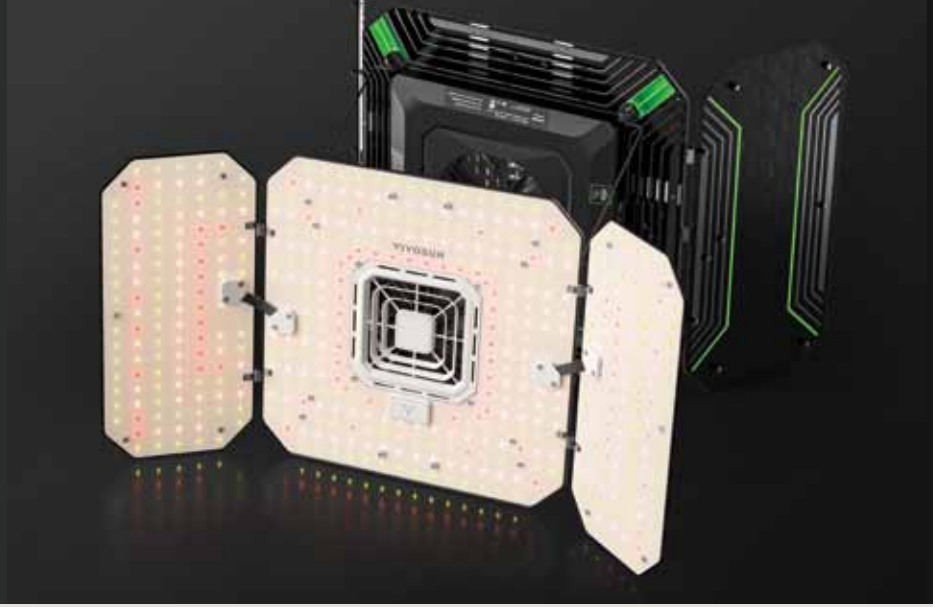
Choosing the Right Grow Tent

Grow Tent Size

The size of your grow tent should be determined by the size of your available space and the number of plants you want to grow. Regardless of the size of the tent, make sure that each side of the tent has about 6 inches of space from the wall. This will give you room to fit cables and will help dissipate heat if needed. For hemp plants, you can expect each plant to take up 4 sq. ft of space, with autoflowers typically growing a bit smaller. This means a 4 × 2 ft tent should hold 2 plants (potentially up to 4 if planting autoflowers). Keep this in mind when selecting your tent.

Additionally, you need to consider the height of your grow space. Shorter tents mean your lights will be closer to the canopy of your plants, which has both benefits and drawbacks. Taller tents give your plant more room to grow but it also means you'll need a way to raise and lower your lights to meet your plants' needs.

Tent Size	Tent Dimensions	Suggested Plant Count
2' x 2'	24" x 24" x 48"	1-2 plants
2.7' x 2.7'	32" x 32" x 63"	1-2 plants
2' x 3'	36" x 20" x 63"	1-3 plants
3' x 3'	36" x 36" x 72"	2-4 plants
2' x 4'	48" x 24" x 60"	2-4 plants
4' x 4'	48" x 48" x 72"	4-8 plants
5' x 5'	60" x 60" x 80"	6-10 plants
4' x 8'	96" x 48" x 80"	8-16 plants
8' x 8'	96" x 96" x 80"	16-24 plants
5' x 10'	120" x 60" x 80"	16-32 plants
10' x 10'	120" x 120" x 80"	24-40 plants



Matching Equipment to your Grow Tent

Your equipment should match the size of your grow tent. This is crucial, as proper compatibility enhances your growing experience and improves plant health.

Grow Light

Depending on the wattage and efficacy (measured in µmol/J) of your light, the area it is suitable for will differ.
The right LED light for a grow tent kit should be a “full spectrum” light, which means the LED board has enough variety in its diode colorations to provide the colors of light required for all stages of plant growth:

- **Vegetative Stage**
  Requires more blue light to promote chlorophyll production, essential for leaf and stem development.
- **Flowering Stage**
  Requires more red light to induce flowering.

LED lighting quality can be considered in terms of efficacy and component quality. For efficacy, aim for a minimum rating of 2.5 µmol/J. Grow lights should also have a water resistance rating suitable for use in humid environments.

Duct Fan

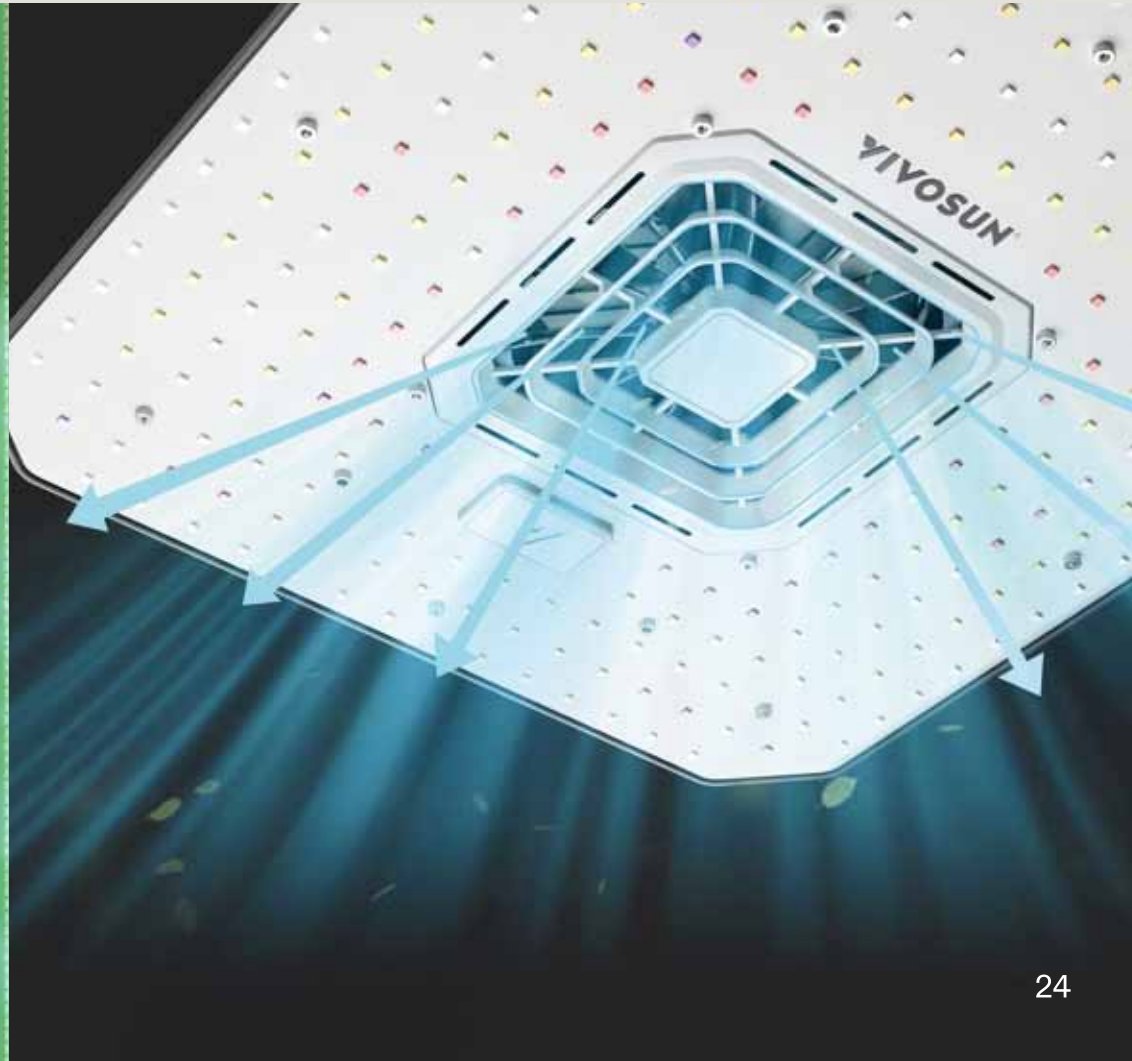
A duct fan, also known as an inline duct fan, is essential for maintaining optimal conditions in a grow tent by providing strong and consistent airflow for proper ventilation.

- **Ventilation and Fresh Air Supply**
  Circulates air to prevent hot, stale air buildup and ensures a constant supply of fresh air.
- **Temperature and Humidity Control**
  Removes hot air from around the grow lights, brings in cooler air, and reduces excess humidity by exchanging moist air with fresh air.
- **Odor Control**
  Eliminates odors when used with carbon filters, keeping the grow area discreet.
- **Smart Regulator**
  When equipped with a smart regulator like the Vivosun GrowHub, the duct fan can automatically adjust ventilation based on environmental conditions.

Circulation Fan

Circulation is crucial for indoor growing as it helps to prevent stagnant air, lowering the risk of mold caused by high humidity and stale air. A clip-on fan is ideal for enclosed spaces such as grow rooms or tents. Its oscillating motion ensures even air distribution, promoting consistent airflow. When used in conjunction with an exhaust system, it facilitates continuous air exchange, effectively replacing warm air with fresh, cool air. This creates a healthier environment for plant growth by preventing heat buildup and maintaining optimal conditions.

Another effective way to enhance air circulation is by using AeroLight, the first fully integrated LED grow light and circulation fan system. AeroLight's centrally located fan balances airflow in areas other fans can't reach, directing more air into the canopy and stabilizing temperature and humidity. When used with a clip-on fan, AeroLight achieves 360-degree air circulation, further improving airflow throughout the grow tent and optimizing the overall growing environment for your plants.



Recommended Tent Sizes with Matching Equipment

Tent Size	Suggested Lighting	Suggested Ventilation	Suggested Circulation
2' x 2'	VS1000 x1 VS1000E x1 AeroLight A100 x1 AeroLight A100SE x1	4" AeroZesh Inline Fan	AeroWave D4 x1 AeroWave E6 x1
2.7' x 2.7'	VS1500 x1 AeroLight A150 x1 AeroLight A150SE x1	4" AeroZesh Inline Fan	AeroWave E6 x1
2' x 3'	VS1500 x1 AeroLight A150 x1 AeroLight A150SE x1	4" AeroZesh Inline Fan	AeroWave E6 x1
3' x 3'	VS2000 x1 VS3000 x1 AeroLight AW200 x1 AeroLight AW200SE x1	6" AeroZesh Inline Fan	AeroWave E6 x1
2' x 4'	VS2000 x1 AeroLight AW200 x1 AeroLight AW200SE x1	4" AeroZesh Inline Fan	AeroWave E6 x1
4' x 4'	VS4000 x1 VSFL4300 x1 VSFD4500 x1 AeroLight AW400 x1 AeroLight AW400SE x1	6" AeroZesh Inline Fan	AeroWave E6 x2
5' x 5'	VSFL6450 x1 VSFD6500 x1, AeroLight AW200 x3 AeroLight AW200SE x3	8" AeroZesh Inline Fan	AeroWave E6 x3 AeroWave E9 x2
4' x 8'	VS4000 x2 VSFL4300 x2 VSFD4500 x2 AeroLight AW400 x2 AeroLight AW400SE x2	6" AeroZesh Inline Fan x2	AeroWave E6 x4 AeroWave E9 x3
8' x 8'	VS4000 x4 VSFL4300 x4 VSFD4500 x4 AeroLight AW400 x4 AeroLight AW400SE x4	8" AeroZesh Inline Fan x2	AeroWave E6 x8 AeroWave E9 x6
5' x 10'	VSFL6450 x2 VSFD6500 x2, AeroLight AW200 x6 AeroLight AW200SE x6	8" AeroZesh Inline Fan x2	AeroWave E6 x6 AeroWave E9 x4
10' x 10'	VSFL6450 x4 VSFD6500 x4 AeroLight AW200 x12 AeroLight AW200SE x12	8" AeroZesh Inline Fan x3	AeroWave E9 x8

After exploring how to choose and set up a grow tent with lights, fans, and other components, it's clear that a complete grow tent kit is the most convenient approach. These kits provide all the necessary components in one package, including the grow tent, grow lights, ventilation, circulation, and a GrowHub controller, making setup and maintenance simple and convenient for both experienced growers and beginners. By precisely and automatically controlling the growing environment, these kits help ensure consistent results and high-quality yields, making them popular among growers.

While grow tent kits include everything you need for an efficient growing environment, the VGrow All-In-One Smart Grow Box offers a comprehensive solution with fully integrated systems, ensuring optimal conditions and ease of use. Its stylish, compact design fits seamlessly into any space, elevating your growing experience.

Germination

Germination Guide

Overview

Germination is the process where seeds sprout and begin their journey into mature plants. This stage typically takes 3–10 days, depending on the seed quality and method used.

Techniques

- **Paper Towel Method**
  Place seeds between damp paper towels in a shallow container. Keep moist and warm.
- **Water Germination**
  Submerge seeds in water for 24–48 hours.
- **Direct Sowing**
  Plant seeds directly in the growing medium.
- **Stratification**
  Place seeds in a cup of water and refrigerate overnight.

Recommendations

Parameter	Ideal Range
Humidity	65-85%
Temperature	70-85°F (21-29°C)
Product	Seed Starter Kit (Page 57)

Overview

The seedling stage marks the beginning of the plant's life cycle, characterized by delicate early growth. This phase typically lasts 1–2 weeks, during which plants focus on developing roots and their first few leaves. Seedlings are highly sensitive to environmental conditions, making it essential to create an ideal environment for healthy development.

Techniques

- **Gentle Watering**
  Keep the growing medium moist but not saturated, using a spray bottle for controlled watering.
- **Humidity Dome**
  Use a humidity dome to maintain high humidity levels and protect young seedlings from environmental stress.
- **Minimal Nutrients**
  Seedlings do not need strong nutrients. A light feeding with diluted nutrients can be introduced after the first few leaves emerge.

Recommendations

Parameter	Ideal Range
Light Cycle	18 hours of light / 6 hours of darkness
Humidity	65-80%
Temperature	70-85°F (21-29°C)
PPFD	150-300 µmol/m²/s
pH	5.5-6.5
EC	1.0-1.5 mS/cm
Product	AeroStream Humidifier (Page 54) pH & EC Meter (Page 56) Seedling Kit (Page 44)

At this stage, gentle care is key to transitioning your plants into the vegetative stage with strong roots and healthy growth.

Vegetative

How to Maximize Cannabis Growth

Overview

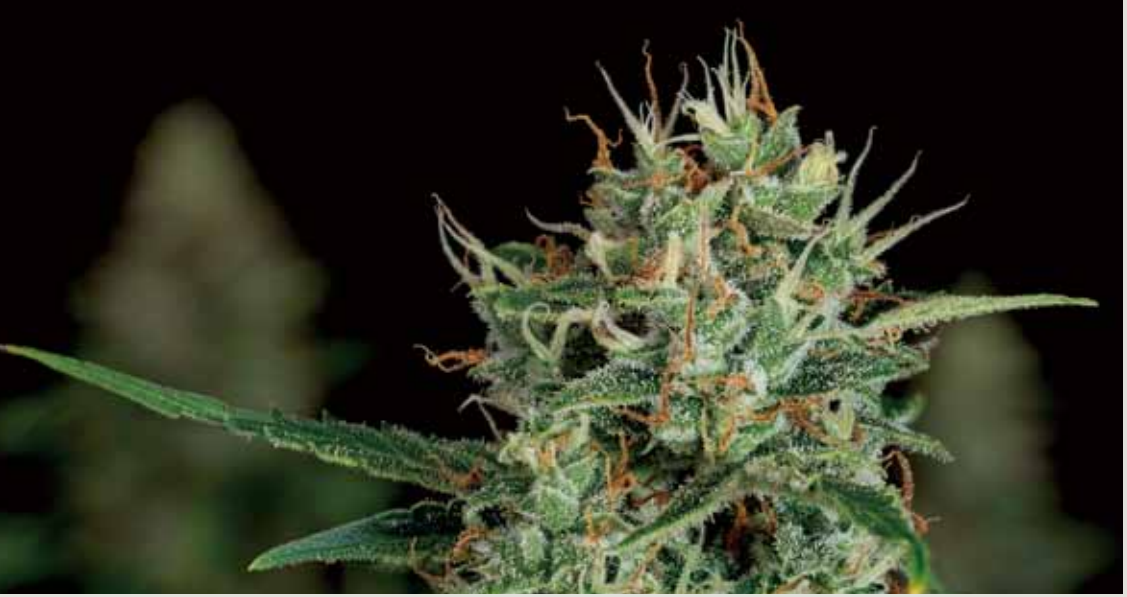
The vegetative stage is when hemp plants focus on developing strong stems, roots, and foliage. This stage lasts 3–8 weeks, depending on growing conditions and the desired plant size.

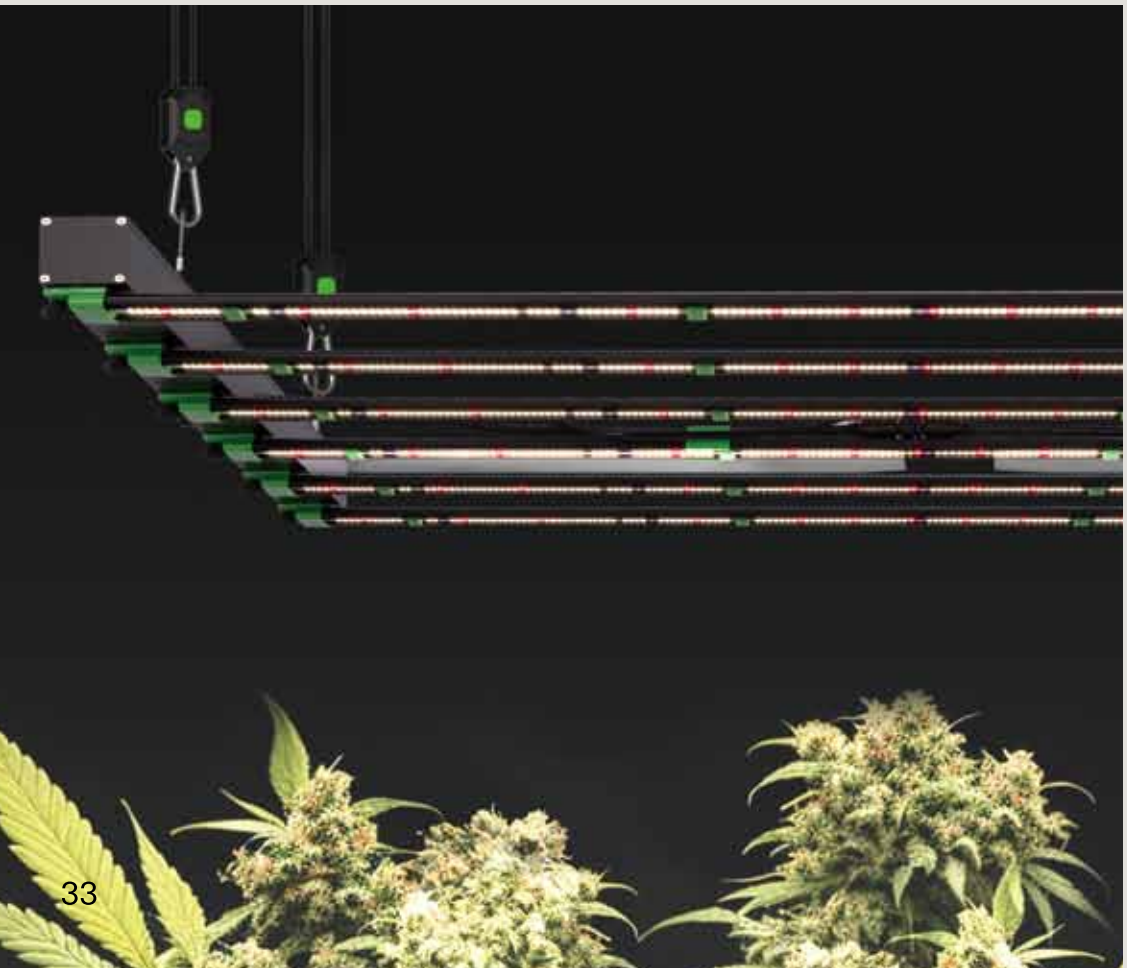
Techniques

- **Topping**
  Prune the main stem to promote bushier growth.
- **Fimming**
  Similar to topping, but less drastic. Encourages multiple new shoots.
- **Low-Stress Training (LST)**
  Gently bend and tie down branches to create an even canopy.
- **Lollipopping**
  Remove lower branches and leaves to focus nutrients and energy towards the upper branches.

Recommendations

Parameter	Ideal Range
Light Cycle	18 hours of light / 6 hours of darkness
Humidity	40-70%
Temperature	70-85°F (21-29°C)
PPFD	400-600 µmol/m²/s
pH	5.5-6.5
EC	1.5-2.0 mS/cm
Product	Smart Grow Tent Kit (Page 43) AeroStream Humidifier (Page 54) pH & EC Meter (Page 56) Vivosun Nutrients (Page 58) Trellis Net (Page 59)





Flowering

Techniques to Maximize Yield

Overview

The flowering stage is when hemp plants develop buds. This stage typically lasts 8–12 weeks.

Techniques

- **Low-Stress Training (LST)**
  Continue to maintain an even canopy.
- **Lollipopping**
  Focus on upper branches by removing lower ones.
- **Crop Steering**
  Manipulate environmental factors to optimize bud development.

Recommendations

Parameter	Ideal Range
Light Cycle	12 hours of light / 12 hours of darkness
Humidity	40-50%
Temperature	65-80°F (18-26°C)
PPFD	600-1000 µmol/m²/s
pH	5.5-6.5
EC	1.5-2.5 mS/cm
Product	Smart Grow Tent Kit (Page 43) Dehumidifier (Page 54) pH & EC Meter (Page 56) Vivosun Nutrients (Page 58)

Harvesting and Trimming

When to Harvest Cannabis

Overview

Harvesting is the process of cutting and collecting mature hemp buds.

Techniques

- **Trichome Monitoring**
  Use a magnifying glass to check trichomes. Harvest them when they turn milky white or amber.
- **Staggered Harvest**
  Harvest top buds first, allowing lower buds more time to mature.

Trimming

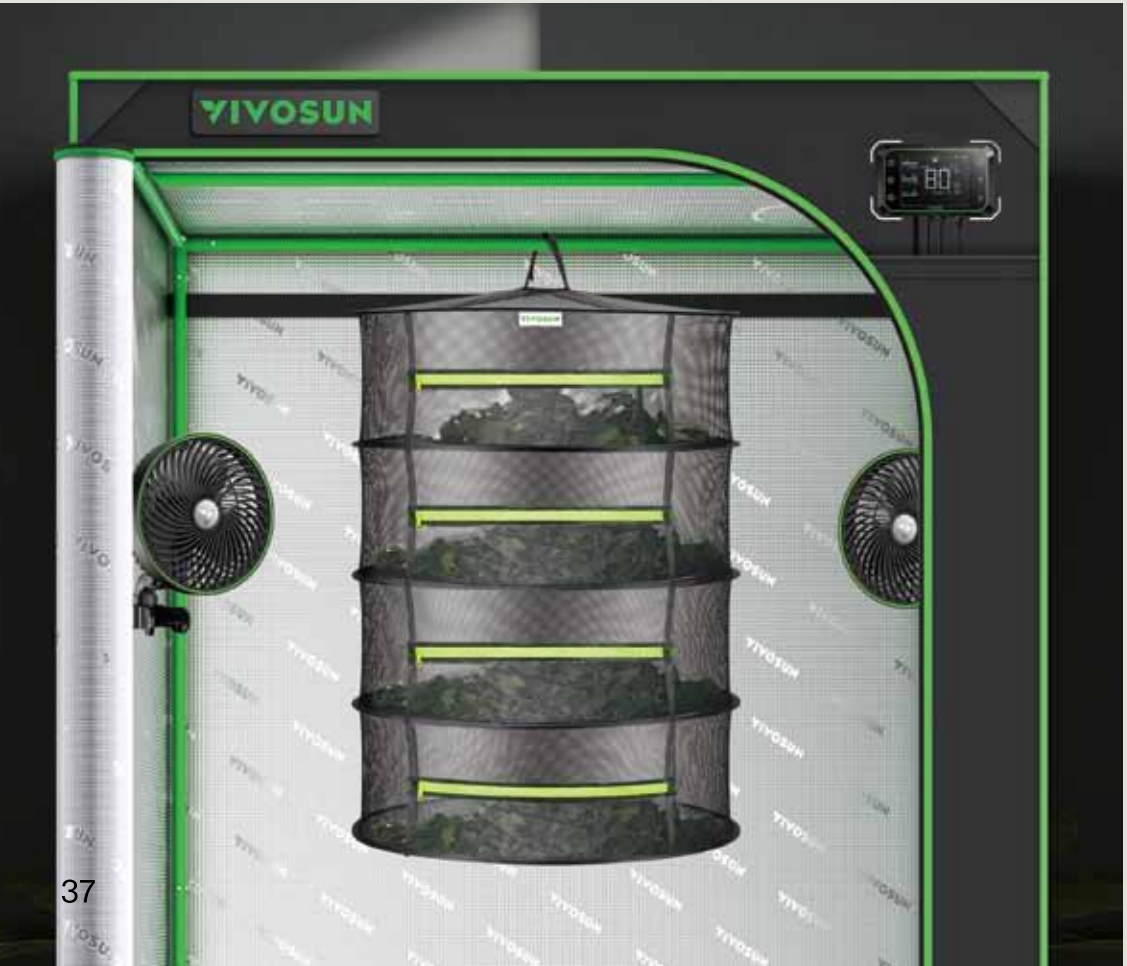
Trimming involves removing unnecessary leaves and branches to improve bud quality and appearance.

Techniques

- **Wet Trimming**
  Trim immediately after harvest.
- **Dry Trimming**
  Trim after drying the plant.

Recommendations

Parameter	Ideal Range
Product	Vivosun Harvest Kit (Page 44)



Drying and Curing

Drying and Curing Cannabis

Overview

Drying and curing improves the flavor, potency, and smoothness of the hemp.

Techniques

- **Drying**
  Hang branches upside down in a dark, ventilated area for 7–10 days.
- **Curing**
  Place dried buds in airtight jars or bags, burping daily for 2–4 weeks.

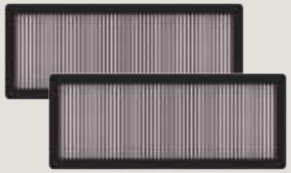
Recommendations

Parameter	Ideal Range
Humidity	45-60%
Temperature	60-70°F (15-21°C)
Product	Drying Rack (Page 59)

06

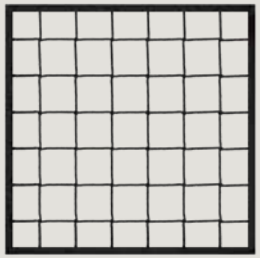
Vivosun Product Catalog

VGrow



VGrow Filter Replacement

Product	Size
VGS-CF10-2	10.2" x 4.3" x 0.9"



VGrow Trellis Net

Product	Size
VGA-TN13	14.4" x 14.4" x 0.1"

VGrow

Product	Size
VG-Y18B	18" x 18" x 48"

VGrow Supply Box

Product	Size
VGS-SB01	13.0" x 8.4" x 4.1"

VGrow Add-on Base & Magnetic Hook

Product	Size
VGA-BHS4	1.7" x 1.7" x 0.9"

Grow Tent Kits

GIY Smart Grow Kit Pro

Product	Size
GIY-SGS-P224	24" x 24" x 48"
GIY-SGS-P276	32" x 32" x 63"
GIY-SGS-P336	36" x 36" x 72"
GIY-SGS-P425	48" x 24" x 60"
GIY-SGS-P448	48" x 48" x 80"

Clone Tent Kit

Product	Size
VSS-CT01	20" x 14" x 21"

GIY Standard Grow Kit

Product	Size
S224 Kit	24" x 24" x 48"
S276 Kit	32" x 32" x 64"
S448 Kit	48" x 48" x 80"
S425 Kit	48" x 24" x 60"
S436 Kit	48" x 36" x 72"
S448 Kit	48" x 48" x 80"
S336 Kit	36" x 36" x 72"

GIY Smart Grow Kit

Product	Size
GIY-SGS-224	24" x 24" x 48"
GIY-SGS-276	32" x 32" x 63"
GIY-SGS-336	36" x 36" x 72"
GIY-SGS-425	48" x 24" x 60"
GIY-SGS-448	48" x 48" x 80"

Harvest Kit

Product	Size
VSH-HVK16	20.6" x 17.8" x 14.5"
VSH-HVK19	25.3" x 20.4" x 14.5"

Grow Tents

Standard Tents

Product	Size
S3018	30" x 18" x 36"
S223	24" x 24" x 36"
S224	24" x 24" x 48"
S276	32" x 32" x 63"
S326	36" x 20" x 63"
S336	36" x 36" x 72"
S448	48" x 48" x 80"
S558	60" x 60" x 80"
S425	48" x 24" x 60"
S538	60" x 32" x 80"
S848	96" x 48" x 80"
S108	120" x 120" x 80"
S888	120" x 60" x 80"
S105	96" x 96" x 80"

Pro Tents

Product	Size
P224	24" x 24" x 48"
P276	32" x 32" x 63"
P336	36" x 36" x 72"
P426	48" x 24" x 72"
P448	48" x 48" x 80"
P558	60" x 60" x 80"
P848	96" x 48" x 80"
P105	120" x 60" x 80"
P888	96" x 96" x 80"
P108	120" x 120" x 80"

Roof Tents

Product	Size
R446	48" x 48" x 72"
R556	60" x 60" x 72"
R846	96" x 48" x 72"

2-In-1 Tents

Product	Size
D325	36" x 24" x 53"
D436	48" x 36" x 72"
D548	60" x 48" x 80"
D948	108" x 48" x 80"

Gray Tents

Product	Size
G425	48"x24"x60"
G336	36"x36"x72"
G448	48"x48"x80"
G558	60"x60"x80"
G848	60"x60"x80"

High CFM Kit

Product	Size
GT-Pole	24"-48"

GrowHub Controllers

GrowHub

Product	Size
GU-E42A	5.42" x 3.3" x 1.1"

GrowHub

Product	Size
GH-E25	2.24" x 0.75" x 0.43"

GrowHub

Product	Size
GH-A22S	5.0" x 1.8" x 1.3"
GH-A10	2.6" x 1.5" x 1.3"

GrowCam Camera

GrowCam

Product	Size
VSC-GCC4	1.8" x 2" x 3"

Grow Lights

AeroLight

Product	Size
VSA-100, 100W	13" x 13" x 1.77"
VSA-150, 150W	13" x 13" x 2.1"

AeroLight SE

Product	Size
VSA100SE, 100W	13" x 13" x 1.77"
VSA150SE, 150W	13" x 13" x 2.1"

AeroLight Wing

Product	Size
VSAW200, 200W	26" x 13" x 2.1"
VSAW400, 400W	26.4" x 26" x 2.4"

AeroLight Wing SE

Product	Size
VSAW200SE, 200W	26" x 13" x 2.3"
VSAW400SE, 400W	26.4" x 26" x 2.3"

Bar Grow Light

Product	Size
VSFD4500, 450W	29.6" x 39.0" x 2.8"
VSFD6500, 650W	42.8" x 39.0" x 2.8"

Bar Grow Light

Product	Size
VSFL3000, 300W	41.3" x 27.6" x 2.2"
VSFL4300, 430W	41.3" x 27.6" x 2.2"
VSFL6450, 645W	43.6" x 41.45" x 3"

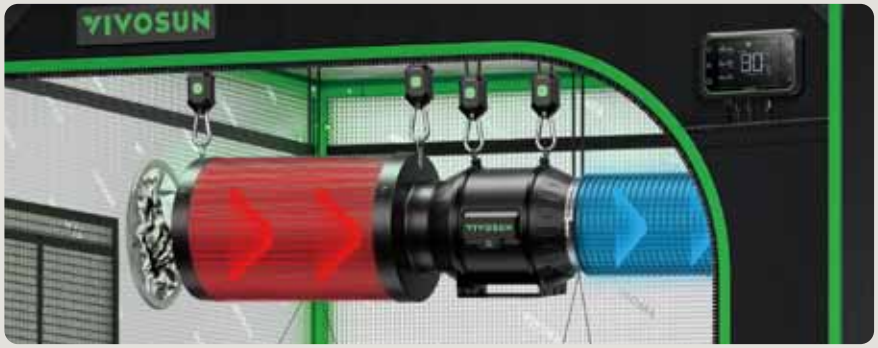
Supplemental Light

Product	Size
VSL-LRSF50	16" x 1.1" x 0.4"

VS Grow Light

Product	Size
VS1000, 100W	11.8" x 11.8" x 2.36"
VS1500, 150W	14.2" x 14.2" x 2.95"
VS2000, 200W	23.5" x 11.8" x 2.95"
VS3000, 300W	19.7" x 19.7" x 3.23"
VS4000, 400W	23.5" x 23.5" x 3.23"
VS1000E, 100W	11.8" x 10.2" x 1.69"

Ventilation



AeroZesh S

Product	Size
VSV-AZS4	Φ 4"
VSV-AZS6	Φ 6"
VSV-AZS8	Φ 8"

AeroZesh T

Product	Size
VSV-AZT4	Φ 4"
VSV-AZT6	Φ 6"
VSV-AZT8	Φ 8"

AeroZesh G

Product	Size
VSV-AZG4	Φ 4"
VSV-AZG6	Φ 6"
VSV-AZG8	Φ 8"

Inline Duct Fan R

Product	Size
R4 with Speed Controller	Φ 4"
R6 with Speed Controller	Φ 6"
R8 with Speed Controller	Φ 8"

Inline Booster Duct Fans

Product	Size
4" Fan	Φ 4"
6" Fan	Φ 6"
8" Fan	Φ 8"

Inline Booster Duct Fan Combo

Product	Size
4" Fan with Speed Controller	Φ 4"
6" Fan with Speed Controller	Φ 6"
8" Fan with Speed Controller	Φ 8"

Carbon Filters

Product	Size
4" Carbon Filters	Φ 4" x 14"
6" Carbon Filters	Φ 6" x 18"
8" Carbon Filters	Φ 8" x 22"

Prefilters

Product	Size
4" Prefilters	Φ 4"
6" Prefilters	Φ 6"
8" Prefilters	Φ 8"

Ducting & Clamps

Product	Size
Ducting & Clamps	Φ 4"
Ducting & Clamps	Φ 6"
Ducting & Clamps	Φ 8"
Ducting & Clamps	Φ 4"
Ducting & Clamps	Φ 6"
Ducting & Clamps	Φ 4"
Ducting & Clamps	Φ 6"

Ducting & Clamps

Product	Size
Ducting & Clamps	Φ 6"
Ducting & Clamps	Φ 8"
Ducting & Clamps	Φ 4"
Ducting & Clamps	Φ 6"
Ducting & Clamps	Φ 4"

Circulation

AeroWave E

Product	Size
VSF-AWE6	Φ 6"
VSF-AWE9	Φ 9"

AeroWave A

Product	Size
VSF-AWA6	Φ 6"

AeroWave D

Product	Size
VSF-AWD4	Φ 4""

Humidity & Temperature Controls

AeroStream

Product	Size
VSE-ASH19	9.4" x 10.5" x 27.9"
VSE-ASH10	7.5" x 7.5" x 26.2"
VSE-ASH05	7.4" x 7.6" x 13.1"
VSE-ASU075	3.8" x 3.8" x 6.9"

Dehumidifier

Product	Size
2.2L	7.1" x 9.5" x 14.2"
10L	8.37" x 7.22" x 14.7"

Irrigation

FlexFeed DWC Hydroponic System Kit

Product	Size
1 Bucket	15.7" x 13.4" x 13.4" (1 Bucket)
4 Buckets	15.7" x 13.4" x 13.4" (1 Bucket)
8 Buckets	15.7" x 13.4" x 13.4" (1 Bucket)

FlexFeed Automatic Drip Irrigation Kit

Product	Size
VSH-IS02	8.7" x 4.1" x 6.9"

FlexFeed Drip Irrigation

Product	Size
VSI-FFD2	1.2" x 1.4" x 2.2"

FlexFeed Self-Watering Fabric Pot Base

Product	Size
VSI-FFSW6-4	14.7" x 14.7" x 3.3"

Sensors & Meters

AeroLab

Product	Size
VS-THB1	3.3" x 2.81" x 0.79"
VS-THB1 S	3.3" x 2.81" x 0.79"

Thermometer & Hygrometer

Product	Size
Thermometer & Hygrometer (1 Remote Sensor)	3.8" x 4.5"
Thermometer & Hygrometer (3 Remote Sensor)	3.8" x 4.5"
Remote Sensor	1.4" x 3.9"

Digital pH Meters

Product	Size
pH Meter	1.22" x 6.1"
pH & TDS Meter Combo	1.22" x 6.1"
3-in-1 pH Meter	1.5" x 7.2"
4-in-1 pH Meter	1.5" x 7.2"
5-in-1 pH Meter	3.27" x 8.35"
pH Buffer Powder	6 Sets (18 Packets)

Propagation

Seedling Heat Mat

Product	Size
10" x 20.75" Heat Mat	10" x 20.75"
20" x 20.75" Heat Mat	20" x 20.75"
48" x 20.75" Heat Mat	48" x 20.75"
3" x 20" Heat Mat	3" x 20"

Heat Mat with Thermostat

Product	Size
10" x 20.75" Heat Mat	10" x 20.75"
20" x 20.75" Heat Mat	20" x 20.75"
48" x 20.75" Heat Mat	48" x 20.75"

Seed Starter Kit

Product	Size
40-cell	15.2" x 10.1" x 5.6"

Heat Mat Combo

Product	Size
3" x 20" Combo	3" x 20"
10" x 20.75" Combo	10" x 20.75"
20" x 20.75" Combo	20" x 20.75"
48" x 20.75" Combo	48" x 20.75"

Nutrients

Base A & B

Product	Size
VSN-BASEAB128	128 fl oz
VSN-BASEAB32	32 fl oz
VSN-BASEAB8	8 fl oz

Cal + Mag + Iron

Product	Size
VSN-Cal+Mag+Iron	32 fl oz

NutriBoost

Product	Size
VSN-NB32	32 fl oz
VSN-NB8	8 fl oz

Bloom Juice

Product	Size
VSN-BJ32	32 fl oz
VSN-BJ8	8 fl oz

Accessories

Black Grow Bags

Product	Size
1 Gallon	7.9" x 7.9" x 6.4"
2 Gallon	7.9" x 7.9" x 8.7"
3 Gallon	9.9" x 9.9" x 9.5"
5 Gallon	9.9" x 9.9" x 12.5"
7 Gallon	9.9" x 9.9" x 14.3"
10 Gallon	11.9" x 11.9" x 15.9"

Handheld Pump Sprayer

Product	Size
0.2 Gallon	4.92" x 4.92" x 12.01"
0.4 Gallon	5.91" x 5.91" x 13.59"
0.53 Gallon	5.2" x 5.2" x 12.5"

Bowl Trimmers

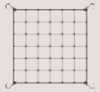
Product	Size
19" Leaf Trimmer	19.6" x 12.1"
16" Leaf Trimmer	16" x 11.6"
13" Leaf Trimmer	13.19" x 9.45"

Pruning Shears

Product	Size
Straight Blades	6.5"
Curved Blades	6.5"
Straight Blades (Non-Stick Coated),	6.5"

Mesh Drying Racks

Product	Size
2-Layer	16" x 24"
3-Layer	24" x 24"
4-Layer	32" x 24"
6-Layer	48" x 24"
8-Layer	64" x 24"



Trellis Netting

Product	Size
Trellis Netting (6" Square Mesh)	5' x 15'
Trellis Netting (6" Square Mesh)	5' x 30'
Trellis Netting (3.5" Square Mesh)	5' x 15'
Trellis Netting (3.5" Square Mesh)	5' x 30'
Elastic Trellis Netting (Φ 3mm)	2' x 2'
Elastic Trellis Netting (Φ 3mm)	2' x 4'
Elastic Trellis Netting (Φ 3mm)	3' x 3'
Elastic Trellis Netting (Φ 3mm)	4' x 4'
Elastic Trellis Netting (Φ 3mm)	5' x 5'

VIVOSUN

Grow Reference Chart

Scan for growing solutions
vivosun.com

Need Support? Scan to join our Discord Community
Vivosun Discord

Condition	Germination	Seedling	Vegetative	Flowering	Harvesting	Drying & Curing
Light Cycle	N/A	18/6	18/6	12/12 (photo), 18/6 (auto)	N/A	N/A
Humidity	65-85%	55-85%	40-70%	40-50%	45-55%	45-60%
Temperature (°F/°C)	70-85°F 21-29°C	70-85°F 21-29°C	70-85°F 21-29°C	65-80°F 18-26°C	65-75°F 18-23°C	60-70°F 15-21°C
VPD (kPa)	0.4-0.8	0.5-1.0	0.8-1.5	1.0-1.6	0.8-1.5	0.5-1.2
PPFD (μmol/m²/s)	N/A	150-300	400-600	600-1000	N/A	N/A

Stage of Growth	Seedling/Clone	Vegetative				Flowering							
Week	W1-W2	W1	W2	W3	W4	W1	W2	W3	W4	W5	W6	W7	W8
Base A 4-0-1 (ml/gal)	1-3	5	7	7	9	9	12	14	14	10	10	7	7
Base B 1-4-2 (ml/gal)	1-3	5	7	7	9	9	12	14	14	10	10	7	7
NutriBoost 0-0-1 (ml/gal)	1	2-4				4-8							
Bloom Juice 0-6-4 (ml/gal)	0	0				2	2	5	5	7	7	10	10
Cal + Mag + Iron 2-0-0 (ml/gal)	2-5	2-5				2-5							
PPM	185-465	472-638	658-808		798-878	808-898	958-1118	1128-1288		858-1028		748-838	
EC	0.4-0.9	0.9-1.3	1.3-1.6		1.6-1.8	1.6-1.8	1.9-2.2	2.3-2.6		1.7-2.1		1.5-1.7	
pH	5.5-6.5	5.5-6.5				5.5-6.5							

* This chart is based on pure water with a PPM level of zero.
Use RO or distilled water to mix with the nutrient solution.


Let's
Get
(Smart)
Growing!
VIVOSUN