RADIX SERIES

MODULARIZED VERTICAL HYDROPONIC SYSTEM BROCHURE





SANANBIO is a diverse group of growers, engineers, scientists, designers, and business professionals working to build a sustainable and resilient global food system. We are empowering growers globally with cutting-edge indoor vertical farming and horticultural lighting technologies that allow them to meet local and global market demand for essential agricultural products. Our team of controlled environment agriculture (CEA) experts in conjunction with our industry leading technology, creates unmatched value. We are creating the STANDARD in indoor vertical farming and horticultural lighting. We solve complex problems to build you simple solutions.

RADIX SERIES

Modularized Vertical Hydroponic System

Easy Assembly & Disassembly | Configurable Spacing Adjustable Water Level

















Configurable spacing. Integrated lighting system with 80+ spectra. Adjustable water level. Assembly as easy as building a toy castle.

RADIX Crops





Leafy Greens

Frillice lettuce Vegetative stage: 20 days Yield: 882 lbs/set/year (The yield is calculated based on a

6-layer Radix)













Fruiting Crops

Vegetative stage: 90 days Yield: 330 - 441 lbs/set/year (The yield is calculated based on an 1-layer Radix)





Micro Green









RADIX Crops







Pasture

Ryegrass Vegetative stage: 10 days Yield: 551 - 992 lbs/set/year (The yield is calculated based on a 6-layer Radix)



Basil

Vegetative stage: 40 days Yield: 220 - 441 lbs/set/year (The yield is calculated based on a 6-layer Radix)







Medicinal Plants

Jewel Orchi

Yield (wet weight): 40 lbs/set/year

The yield is calculated based on a 6-lave





Edible Flowers

-ansy

Vegetative stage: 120 days Yield: 140,000 flowers/set/year (The yield is calculated based on a 5-layer Radiy)





Configurable Spacing

4 light-to-bed heights ready to be used for a variety of crops. It takes 30 minutes and 2 people to assemble/disassemble a RADIX with no special skills or tools needed.





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4 light-to-bed heights ready to be used for a variety of crops. It takes 30 minutes and 2 people to assemble/disassemble a RADIX with no special skills or tools needed.

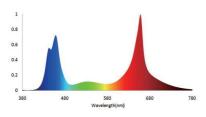


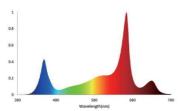


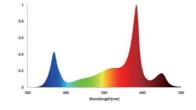
Independent Lighting System

SANAN Optoelectronic proprietary chips and 80+ spectra optimizing plant growth of 160+ cultivars throughout their life stages.

Spectrum and light model interchangeable.













Skylark-GE Spectrum For Leafy Green

Power: 11.5 W PPF:26 µmol/s Number of lights per layer: 8 pcs Light-to-bed distance: 20 cm Avg. PPFD: 248 µmol/s/m²m²

Skylark-VE Spectrum For Leafy Green

Power: 13.5 W PPF: 38 µmol/s Number of lights per layer: 8 pcs Light-to-bed distance: 28 cm Avg. PPFD: 295 µmol/s/m²

Skylark-VE Spectrum For Leafy Green

Power: 30 W PPF: 69 µmol/s Number of lights per layer: 8 pcs Light-to-bed distance: 50 cm Avg. PPFD: 540 µmol/s/m²



Concealed Wiring and Tubing

Made from insulants, Radix eliminates electrical hazards by concealing wiring and tubing in spacers and grow beds.

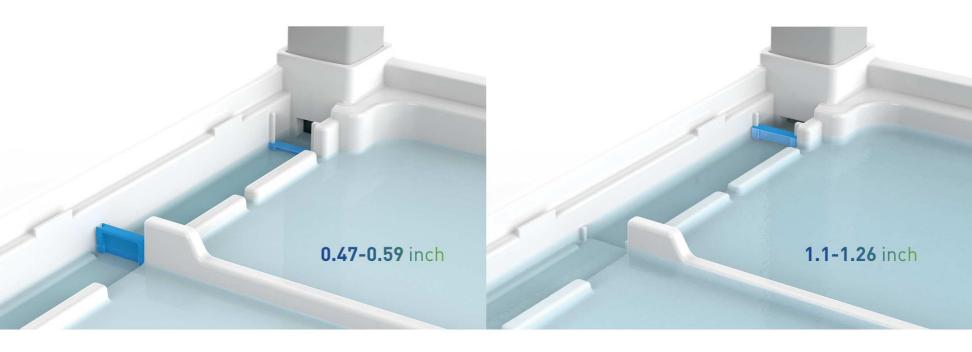




Wiring Irrigation

Adjustable Water Level

Retaining dams and flow regulators allow Radix to have a hybrid system of NFT & DWC with integrated gravity-driven water circulation that is convertible between shallow flow and deep flow.





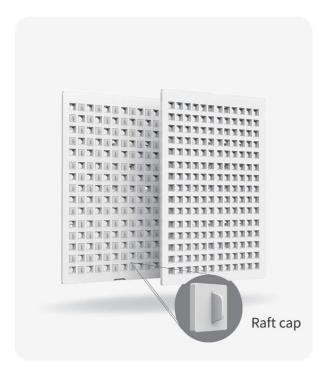




Deep flow

Accessories

Growers can choose 180-hole、54-hole or 18-hole rafts per their needs and change up plant density by capping offunused holes so that the indoor space can be utilized optimally throughout plants' life stages.







180-hole raft for seedling growth. Cap off unused holes to adjust plant density and prevent algae growth

54-hole raft for the vegetative stage. Cap off unused holes to adjust plant density and prevent algae growth.

18-hole raft for the vegetative stage. Cap off unused holes to adjust plant density and prevent algae growth.

Accessories

Radix use with different accessories for seedling, nursery, and microgreens growing etc.







Germination Trays (sowing/seedling stage)

Automatic Water Filling Germination Tray (sowing/seedling stage)

Microgreen Tray (cultivation stage)

Healthy and Strong Roots

Driven by gravity, the nutrients are circulated with a high dissolved oxygen level, ensuring roots' healthy development.











Check out sananbio.com for more information.

Specifications

Product Name	RADIX
Dimension (L*W*H)	1346*942*(2200-2870) mm
Growing Surface	6.48 m ²
Light to Bed Height	200-1890 mm
Plant Sites/Raft	180 holes/54 holes/18 holes
Number of Lights	48 pieces (8 pieces/layer)
Avg. PPFD	250-550 μmol/s/m ²
Voltage	CN&EU 220-240 V~ 50/60 Hz UL 100-277 V~ 50/60 Hz
Power	552 W/648 W
Grow Light Lifetime	50,000 hrs
IP Rating	IP 65
Net Weight	< 366 lbs
Material	PP



Packing List

1.Radix 2.User Manual 3.Certification

GLOBAL PHOTOBIOTECH SUPPLIER



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