

RADIX SERIES

**MODULARIZED VERTICAL HYDROPONIC SYSTEM
BROCHURE**

SANANBIO
Vertical Farming | Horticultural Lighting

RADIX SERIES

Modularized Vertical Hydroponic System

Easy Assembly & Disassembly | Configurable Spacing
Adjustable Water Level



reddot award 2019
winner

Check out [sanabio.com](https://www.sanabio.com) for more information.



Commercial



Demonstration



Research

了解更多详情, 请登录 sananbio.com 浏览。



Restaurant



Education



Home

了解更多详情, 请登录 sananbio.com 浏览。

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

RADIX Crops



Fruiting Crops

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



Leafy Greens

Frillic lettuce
Vegetative stage: 20 days
Yield: 882 lbs/set/year
[The yield is calculated based on a 6-layer Radix]



Micro Green

Radish sprouts
Vegetative stage: 15 days
Yield: 772 lbs/set/year
[The yield is calculated based on a 6-layer Radix]



Check out sananbio.com for more information.

RADIX Crops



Pasture

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



Aromatic Herbs

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

Medicinal Plants

Jewel Orchid
Vegetative stage: at least 240 days
Yield (wet weight): 40 lbs/set/year
(The yield is calculated based on a 6-layer Radix)



Edible Flowers

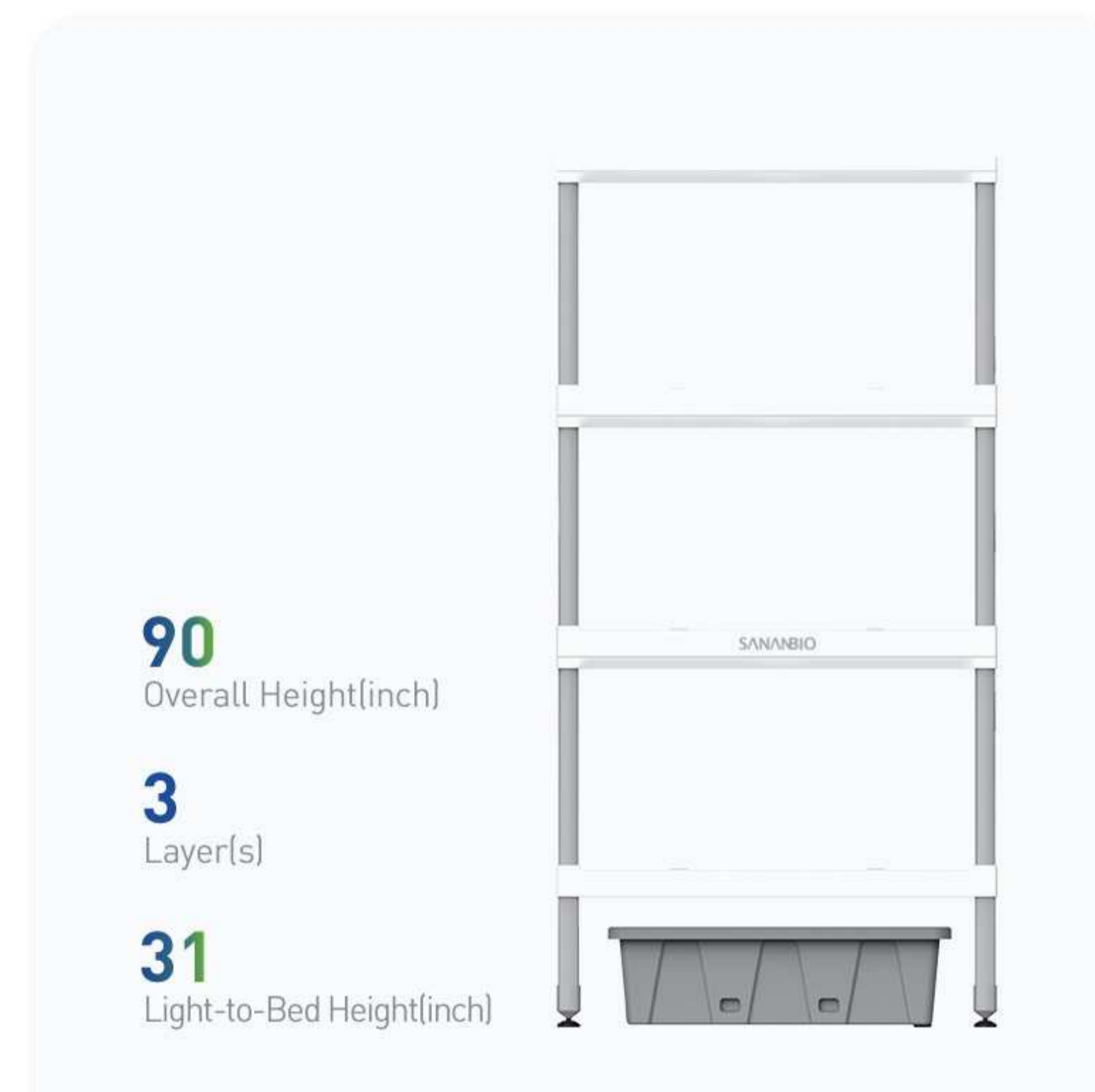
Pansy
Vegetative stage: 120 days
Yield: 140,000 flowers/set/year
(The yield is calculated based on a 5-layer Radix)



Check out sahanbio.com for more information.

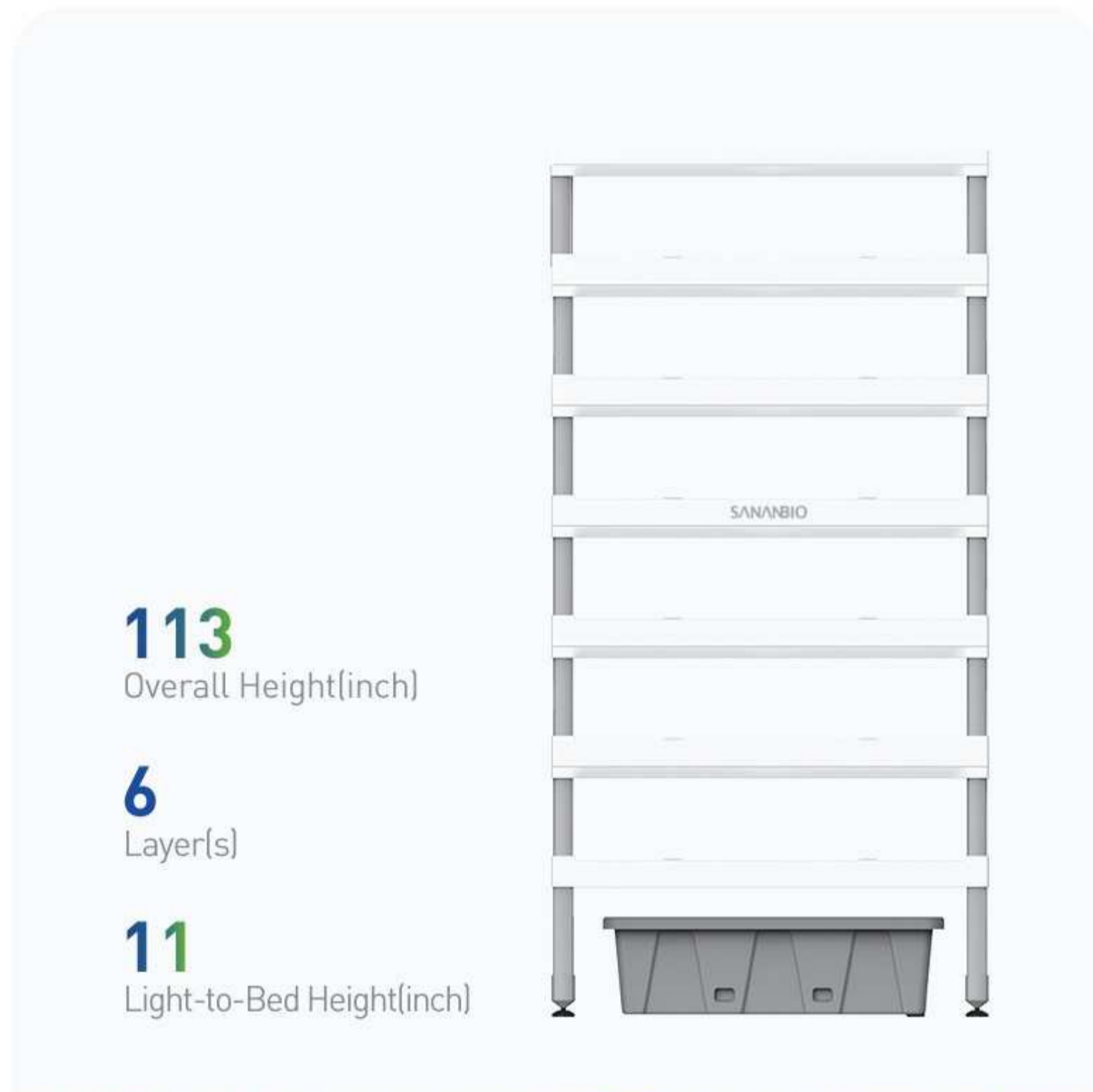
Configurable Spacing

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.



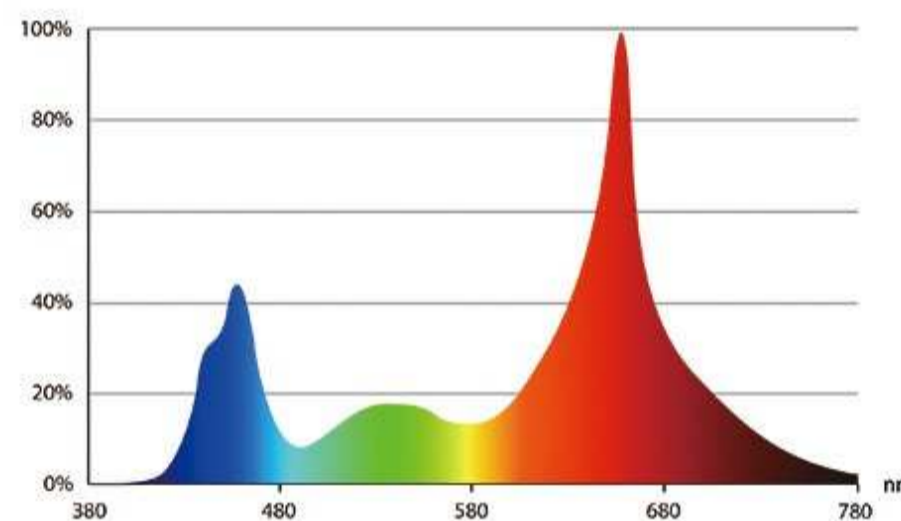
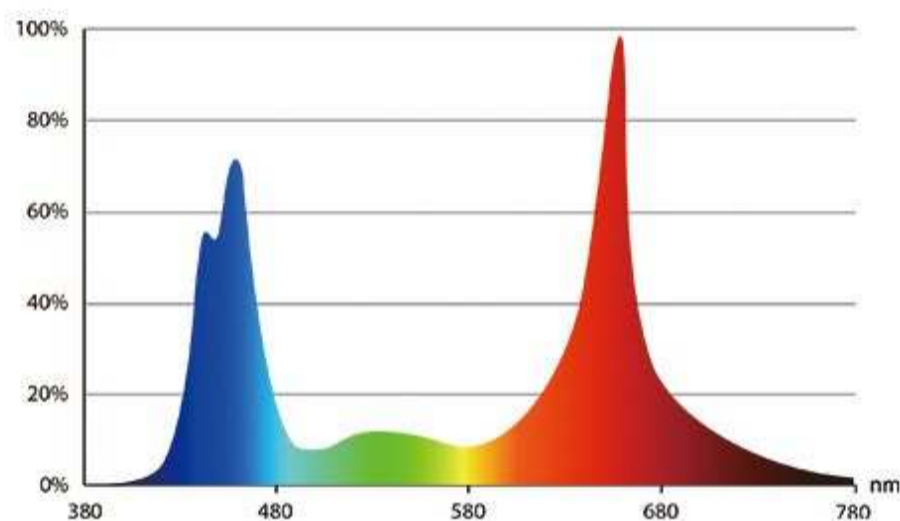
Configurable Spacing

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.



Independent Lighting System

SANAN Optoelectronic proprietary LEDs and 80+ spectra optimizing plant growth of 160+ cultivars throughout their life stages. Spectrum and light model interchangeable.



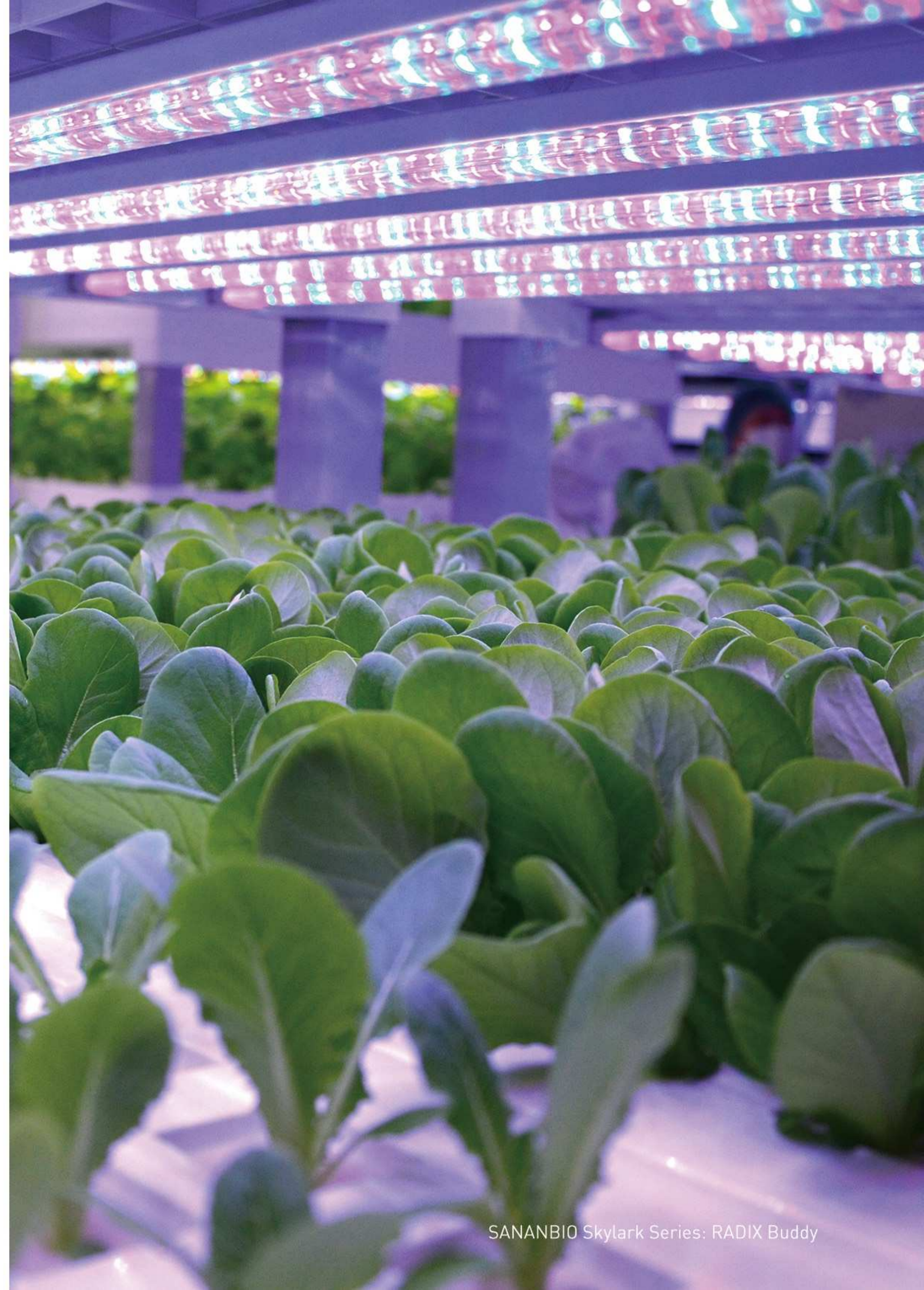
Skylark-GE Spectrum For Leafy Green

Power: 11.5 W
PPF: 24 $\mu\text{mol/s}$
Number of lights per layer: 8 pcs
Light-to-bed distance: 20 cm (0.65')
Avg. PPFD: 225 $\mu\text{mol/s/m}^2$

Skylark-VE Spectrum For Leafy Green

Power: 13.5 W
PPF: 28.5 $\mu\text{mol/s}$
Number of lights per layer: 8 pcs
Light-to-bed distance: 28 cm (0.92')
Avg. PPFD: 230 $\mu\text{mol/s/m}^2$

Check out sananbio.com for more information.



SANANBIO Skylark Series: RADIX Buddy

Concealed Wiring and Tubing

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



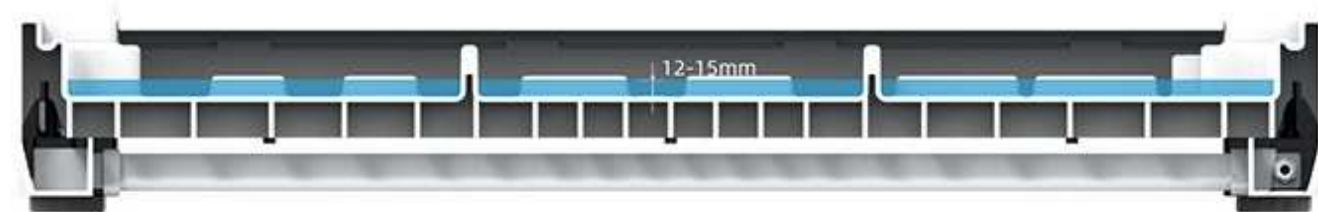
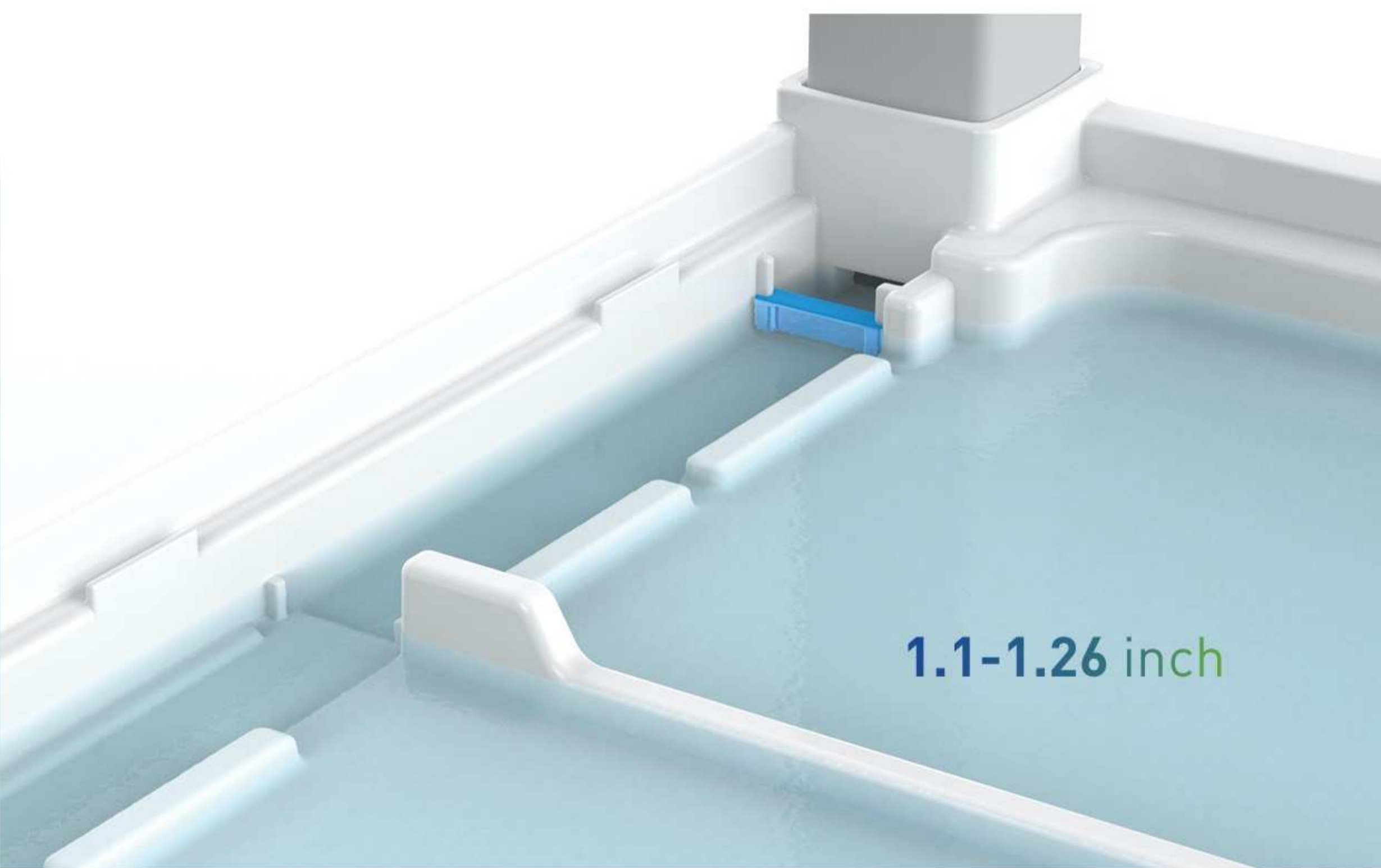
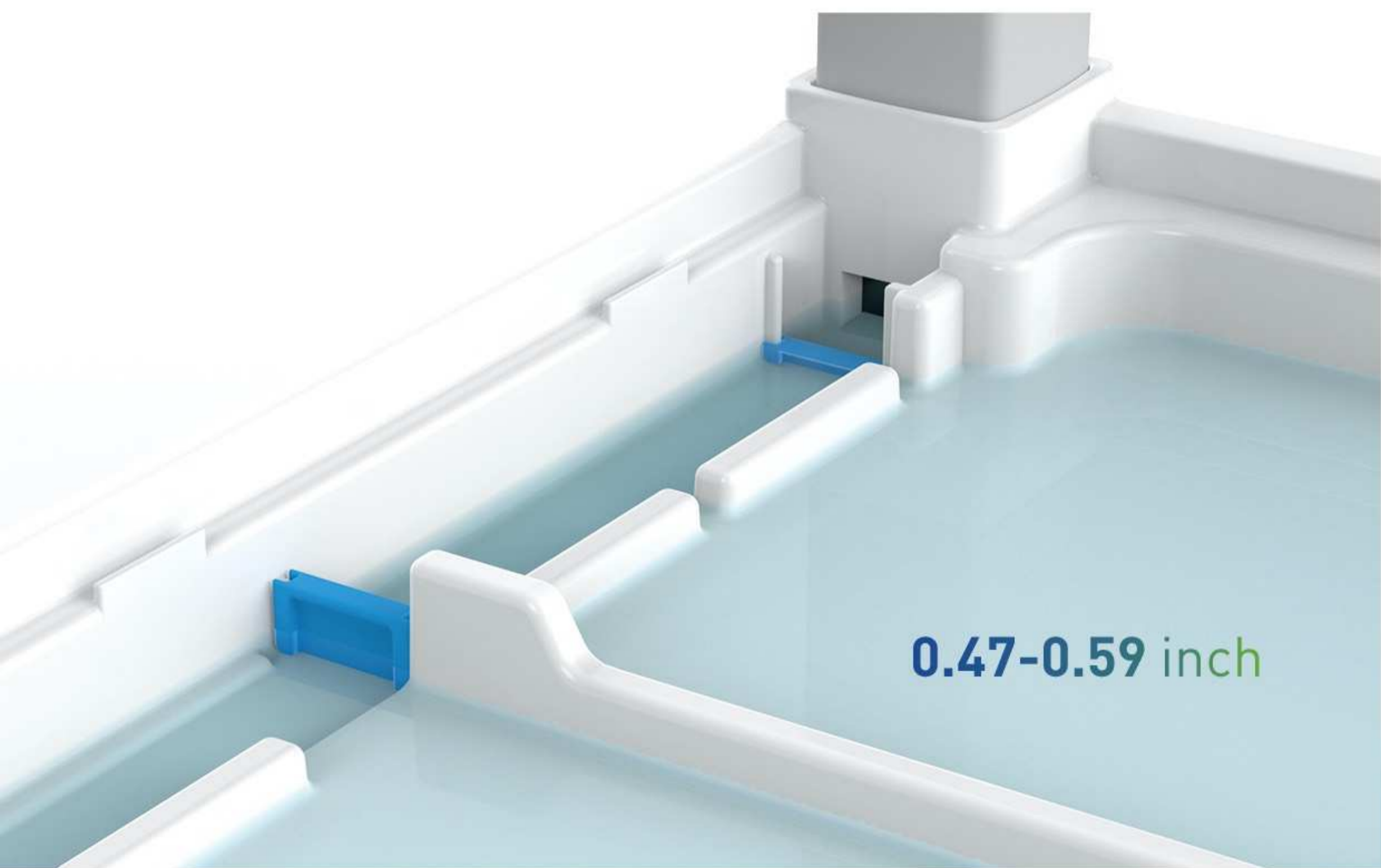
Wiring



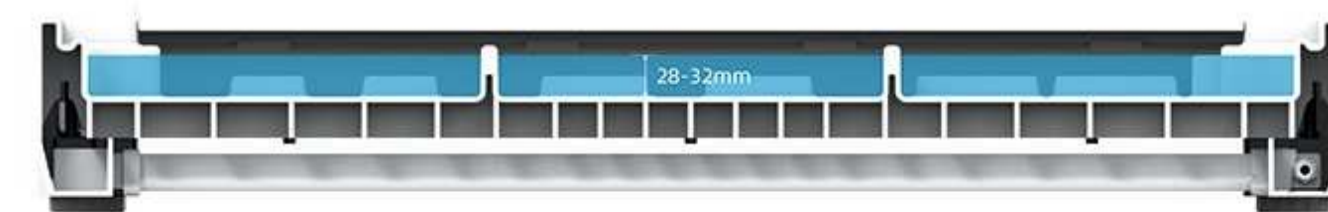
Irrigation

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.



Shallow flow

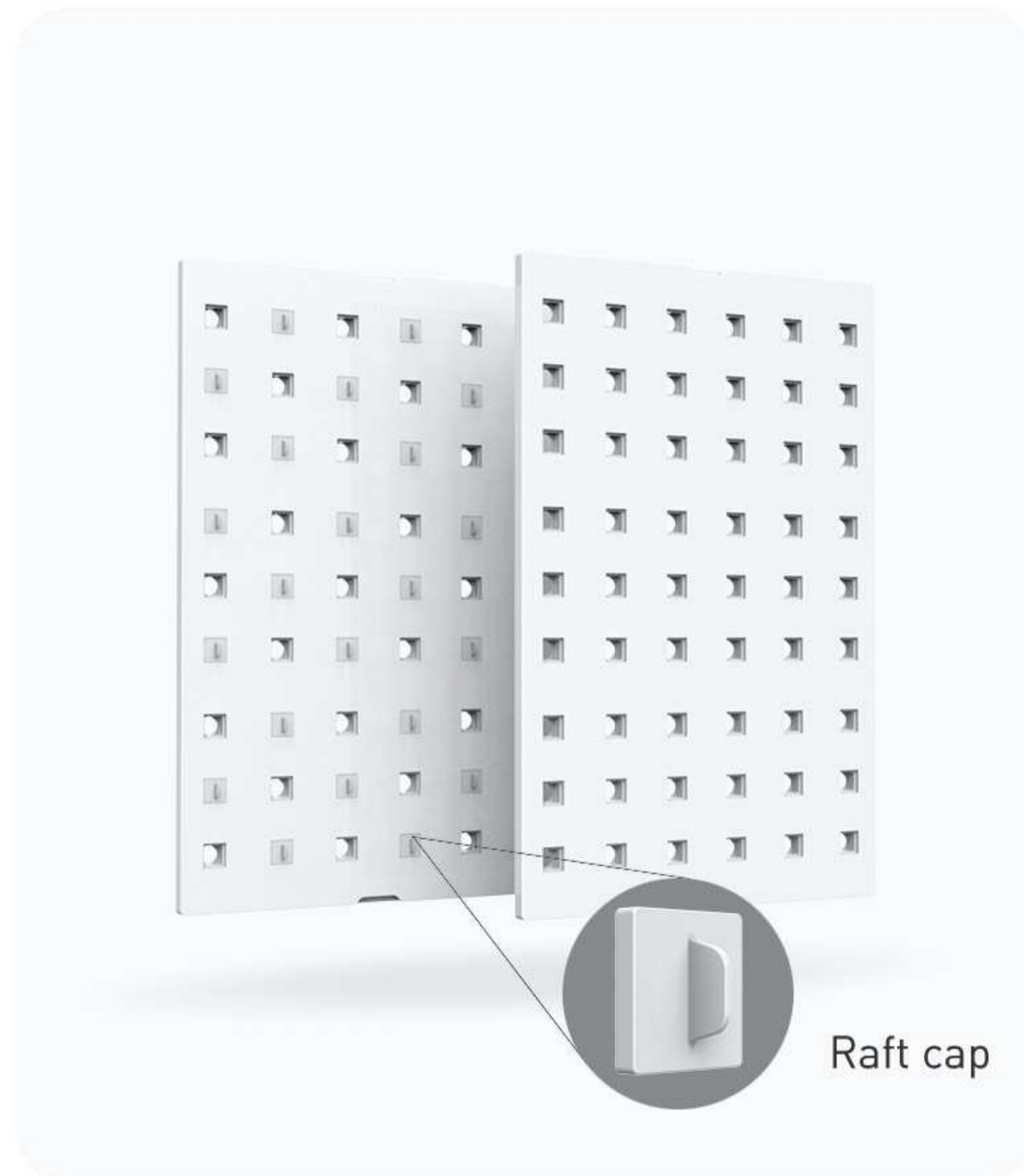


Deep flow

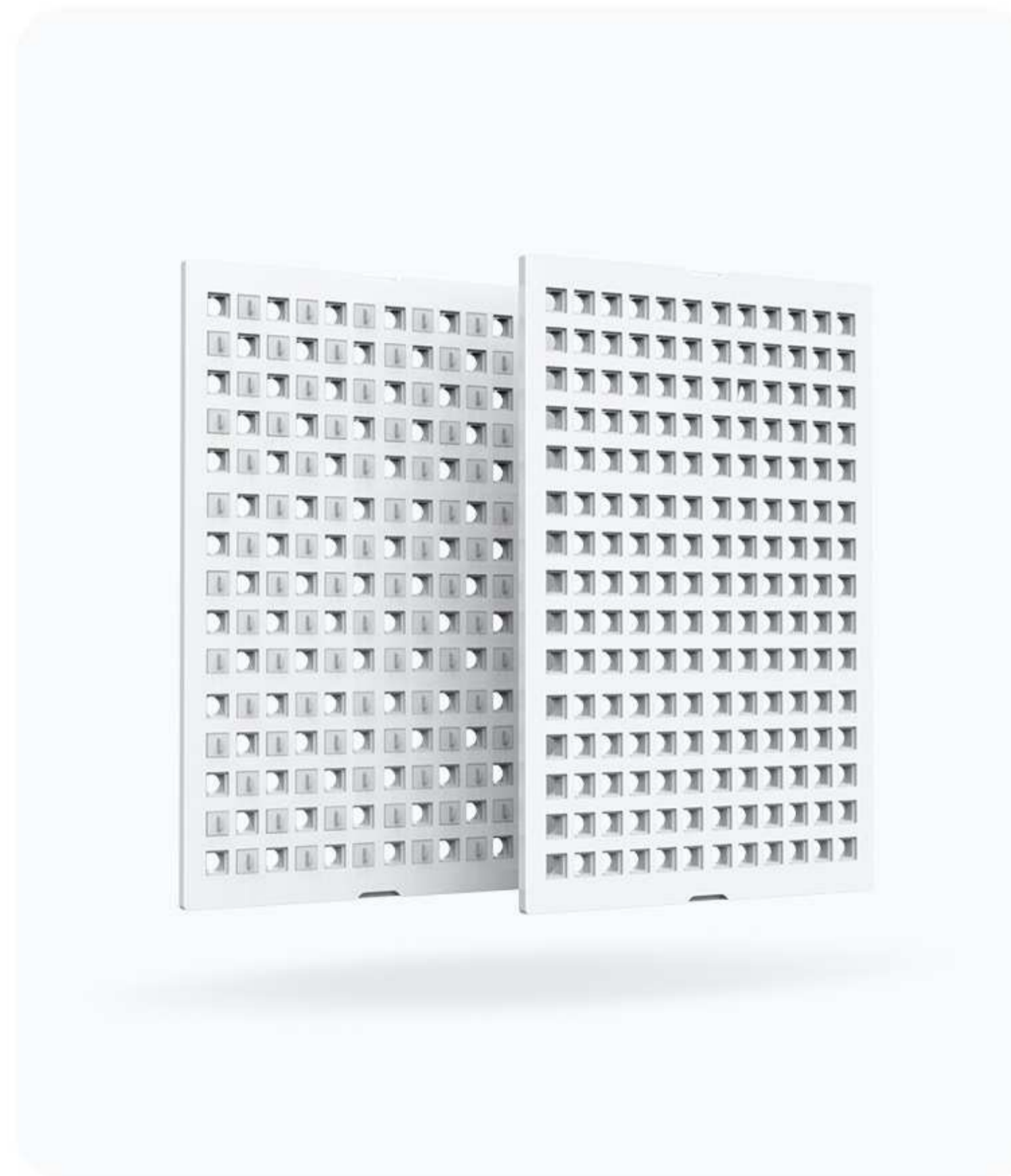
Check out sananbio.com for more information.

Adjustable Water Level

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



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



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



Microgreen trays: 598*300*45mm (23.54''*11.81''*1.77'')

Healthy and Strong Roots

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



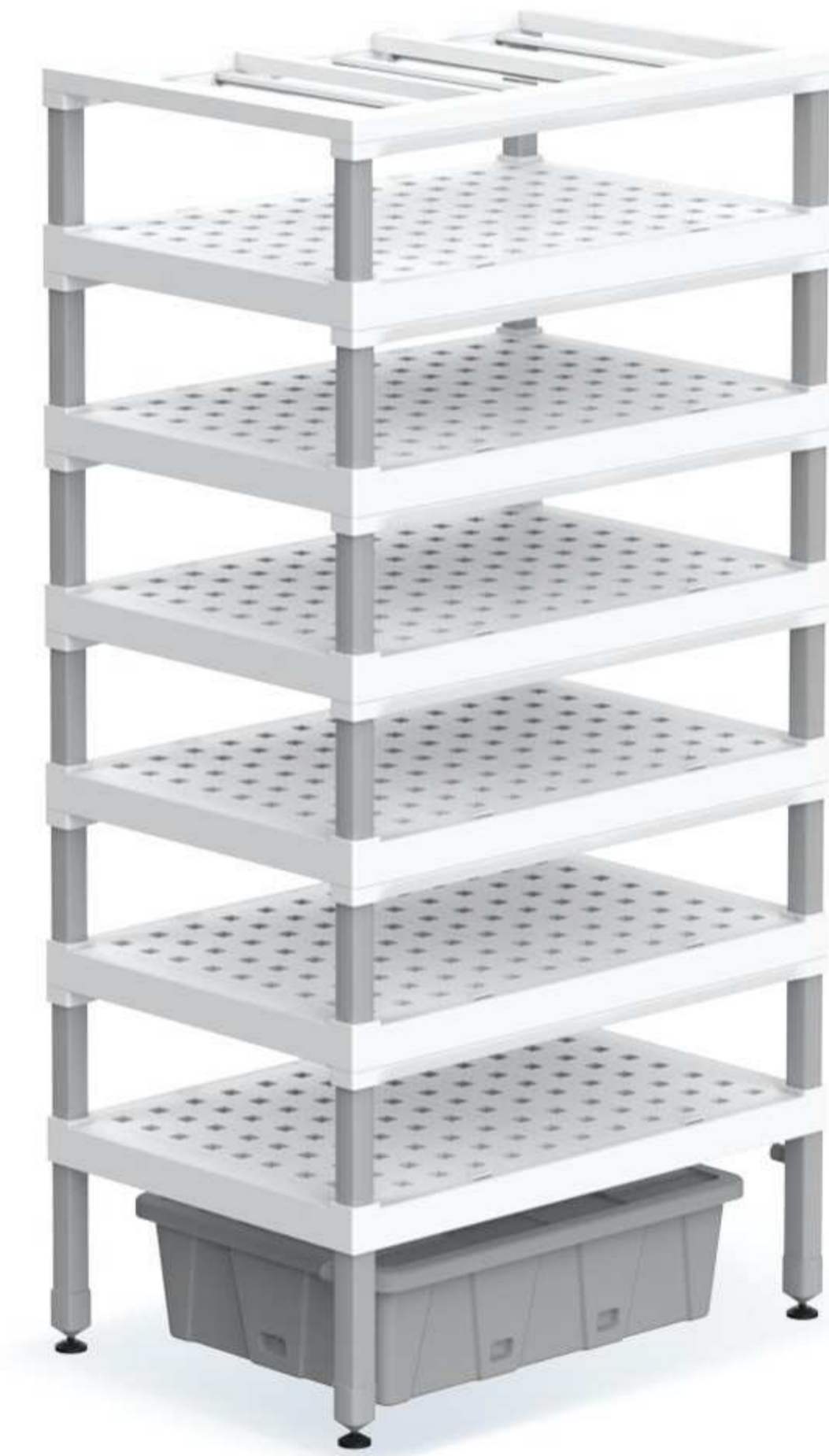
Note: The red roots are of swiss chard



Check out sananbio.com for more information.

Specifications

Product Name	RADIX
Dimension (L*W*H)	1,346*942*(2,200-2,863) mm
Growing Surface	70 sq.ft.
Light to Bed Height	7.87''-74.41''
Plant Sites/Raft	54 holes/90 holes/180 holes
Number of Lights	48 pieces (8 pieces/layer)
Avg. PPF	220-240 $\mu\text{mol/s/m}^2$
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



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.

Check out sananbio.com for more information.

GLOBAL PHOTOBIOTECH SUPPLIER



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