## **RAYN Growing Systems**





## Horticultural Education System

Type(s)

Project

Date

Notes

### **GENERAL INFORMATION**

The microRack is a compact, multi-tiered growing system designed to teach entrepreneurship and sustainability through hands-on microgreen cultivation. The microRack, developed for middle and high school classrooms, combines hardware, curriculum, and real-world business applications into a single, easy-to-use package.

#### **FEATURES**

- Manufactured using commercial-grade growing materials
- Easy to clean
- Built by a 50-year-old employee-owned manufacturer of commercial lighting and control systems
- Provided labs, support, and monthly webinars for best practices
- Purpose-built for educational labs and for developing young entrepreneurs
- · Designed for real-world industry methods, continuous upgrades, and hands-on exploration—beyond "seed, plant, harvest, repeat"

#### **INCLUDED LABS**

Labs are a combination of video and PDF content designed for flexibility and can be run in weeks or spread across a semester.

- Day by day student handouts and lessons (short course and long cours options included)
- Microgreen tastings, flavor analysis, and customer testing
- Business model canvas for students
- Pricing tools, cost of goods calculators, and sales tracking worksheets
- Branding and marketing activities
- Customer interviews, pitch development, and packaging design
- Production planning tools to simulate real small business operations

#### ORDERING INFORMATION

## microRack

Model	Description	Part Number
microRack	microRack	7441A1021

## microRack Accessories

Model	Description	Part Number
CRA80C	Ciara Light Fixtures (qty 2)	7441A1014
EZDIM	Dimmer	7441A1007
	Timer	M7790



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## microRack

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### PRODUCT SPECIFICATIONS

#### Mechanical

• Easy transport via built-in polyurethane rolling casters

#### Electrical

 120 V, 360 W power (max) when the system is at maximum utilization (lights at 100% intensity)

#### **Environment**

• 10°C to 35°C (50°F to 95°F)

#### Warranty

• microRack Five-year limited (except consumables)

### Regulatory and Compliance

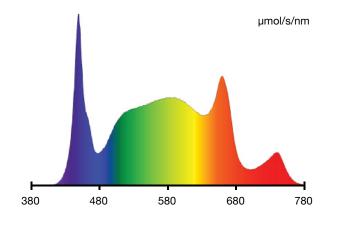
 Individual components follow acceptable compliance safety standards for use in the microRack system

### INCLUDED CONSUMABLES

Included Consumables	Quantity
Microgreen Grow Trays - No Holes	20
Microgreen Grow Trays - With Holes	20
CocoGro	3
Radish Microgreen Seeds (1 lb)	1
Broccoli Microgreen Seeds (1 lb)	1
Measuring Cup	1
5 Gallon Bucket	1
pH Test Kit	1
Sprayer	1
White Silicone Wire Ties	10
Scale (gram)	1
Pipets	5
Black Sharpie	1
Microgreen Tray Label	2
White Electrical Tape	1
Harvesting Scissors (3 pack)	1

## CIARA LIGHT FIXTURE SPECTRUM





PPF: 82.8 µmol/s Efficacy: 2.3 µmol/J

Note: All spectrum data indicated above is subject to change.



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## microRack\*

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## PHYSICAL

#### Dimensions<sup>†</sup>

Model	Model Height		Width <sup>‡</sup>		Length	
	cm	in	cm	in	cm	in
microRack	199	78.4	48	18	123.6	48.7

<sup>‡</sup> Width of the rack only. Excludes Microgreen Grow Trays.

## Weights<sup>†</sup>

Model	Wei	ght	Shipping Weight		
	kg	lb	kg	lb	
microRack					

<sup>&</sup>lt;sup>†</sup> System is rated for 408 kg (900 lb)

