

Aetrium

Smart Farm

4-Layer Aeroponic Growing System



Commercial Growth

Grow Pure, Fresh, Produce With Aeroponics

Aeroponic Growth

A Superior Grow

Crisper greens. Fresher herbs. Faster growth. Aetrium SmartFarm brings all the benefits of aeroponic growth for your leafy and micro greens. Amplify nutrition and improve the taste in everything you grow.



Faster Growth



Greater Nutrition



Clean Growing Environment

Keep It Pure

You've worked hard to keep your product pest-free and pesticide-free. Aetrium SmartFarm is designed for precision indoor growing standards that exceed organic specifications. Guarantee your customers the healthiest produce, served fresh.



No Pesticides



Healthier Plants



All Automated

You Are In Control

The Guardian™ Grow Manager software provides you remote access and control over all growth parameters. Manage the LED lighting, nutrient dosing, and much more, all at your fingertips.



Lighting

NPK

Nutrients



Irrigation





Scaled & Stacked

The **Aetrium SmartFarm** delivers fast, safe, and reliable produce in **volume**. This stacked 4 layer automated grow system was created with modularity and high volume commercial cultivators in mind.



Modular Growth

One of **Aetrium Smartfarm's** versatile features is its modularity. You can grow multiple different varieties and species at anytime. Simply swap out a tray and **Aetrium SmartFarm does the rest.**



Clean & Safe

Aetrium SmartFarm is designed to work well in cleanrooms, preventing the introduction of pests and growing a clean, safe, harvest.



Resource Efficient

Optimized growth LEDs, smart irrigation, and automated nutrient dosing all add up in cost savings for your commercial operation.



Grow Locally

Aetrium SmartFarm conveniently fits in urban grow environments, whether it's a plant factory or a mobile shipping container.

The Growing Process

Designed to bring customers an eating experience that is clean, local, and fresh.



Start

Start from organic seeds or sprouts and let **Aetrium SmartFarm** handle the rest.

Grow

Grown using cutting edge aeroponics technology, plants become more robust and are packed with nutrients.

Table

The result is an offering that is crisp, fresh, and delicious.

Dimensions

24 Tubs and Automated Dosing Unit

L: 10' (3059mm) x **H:** 8' 9.5" (2679mm) x **W:** 5' 3.8" (1622mm)

Square feet/meters: 53.2'/4.9m²

Typical Power Usage: 4200 watts

48 Tubs and ADU

L: 16' 7" (5050mm) x **H:** 8' 8" (2640mm) x **W:** 5' 3.5" (1612mm)

Square feet/meters: 88.2'/8.2m²

Typical Power Usage: 6200 watts

72 Tubs and ADU

L: 23' 2" (7065mm) x **H:** 8' 8" (2640mm) x **W:** 5' 3.5" (1612mm)

Square feet/meters: 123.2'/11.4m²

Typical Power Usage: 8200 watts

Growth Trays:

23.9" **W** x 29.5" **L** x 7.9" **H** (608 x 750 x 200mm)

- 24, 48 or 72 x 63 count trays for 2" net cups

- Planting density is user adjustable with caps to fill unused holes

Aeroponic Spray system: 12 x 12.5 degree emitters spraying upward

Lights:

One 4-LED panel (full spectrum "white"), per grow tub

PPFD greater than 200 $\mu\text{mol}/\text{m}^2/\text{s}$

Automated dimming via software

Growth Area: 4 Layers

Plant height: adjustable from 9" (229mm) to 12" (305mm)

Air Movement: optional fans available to provide control of air movement for each level

Only From



A - 1281 Reamwood Ave. Sunnyvale CA, 94089

E - info@AEssenseGrows.com

P - Toll Free: +1.800.369.8673
+1.650.564.3058

W - AEssenseGrows.com

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