

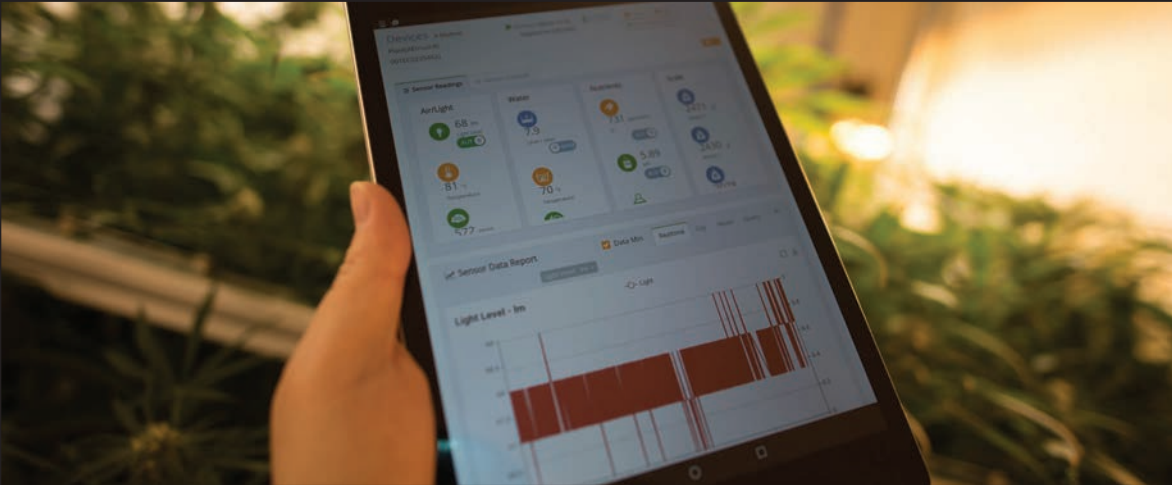
Aetrium SystemTM

Commercial Cannabis Cultivation System



High Yields

Aeroponic system increases growth per light while maintaining consistent quality



Automation

Increase your growing productivity & reduce your risk with the **Aetrium GuardianTM** app



Reduce Turn Around Time

Grow efficiently with more growth cycles



How it Works

The **Ætrium System** provides growers with the power to precisely and repeatably create the perfect plant growth environment for exceptional harvests and maximized efficiency every time using aeroponics managed by our **Ætrium Guardian™** app.

1

2 Weeks



Clone Stage

By **Ætrium-2 Cloning** Configured

Ætrium-2 Cloners can fit up to 77 foam cloner plugs per tray, allowing a total of 231 clones per machine. When clones are transferred to vegging, the cloning **Ætrium-2** can then be repopulated again with clones immediately to begin the next set for vegging.

2

2 Weeks



Vegging Stage

By **Ætrium-2 Vegging** Configured

Vegging **Ætrium-2s** can veg up to 40 plants per tray in 3.75" net pots, allowing a total of 120 vegging plants per machine. After transferring to the blooming stage, Vegging **Ætrium-2s** can then immediately be refilled with new vegging plants from the cloners.

3

8 Weeks



Bloom Stage

By **Ætrium-4**

Ætrium-4 cannabis growth system is the final stage as the plants proceed into bloom. **Ætrium-4** automatically doses the plants according to user specifications. Each can hold up to 20 plants per tub. Choose either a sea of green (SOG) grow or a limited set of plants per tub grown larger.

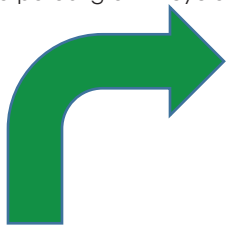
Clones can be taken from mother plants raised in **Ætrium-4s** in a mother/clone/veg room.



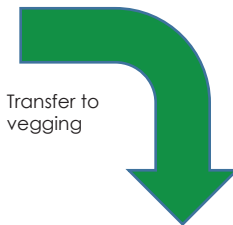
Continuous Growth

Not only does it take just a minute to transplant from veg to bloom, but there is virtually **no stress** to the plant as there would be with transplanting from one solid matrix to another. **Less steps and no dirt to deal with.**

Repeat the process over again starting with **Ætrium-2** while the **Ætrium-4** blooms, creating a perpetual growth cycle.



Transfer to vegging. Repopulate cloner with more clones and repeat.



Transfer to vegging



Ætrium-2
Clone for 2 weeks

Perpetual Growth Cycle



Harvest when ready and immediately repopulate **Ætrium-4** vegged plants for the next bloom



Ætrium-2
Veg for 2 weeks



Ætrium-4
Bloom for 8 weeks



Obtain cuttings for cloning

During the vegging process, you can obtain more clones to repopulate the **Ætrium-2**



Transfer to blooming.

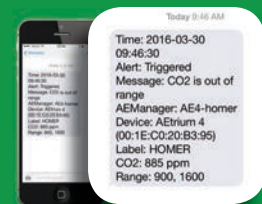


Veg to your desired height, or skip this step and place rooted clones directly into **Ætrium-4**.

Ætrium Guardian™ Reduces Risk

The Ætrium Guardian app constantly controls plant growth and provides a user friendly centralized control console for the grower. All data can be accessed from the Ætrium Guardian either from the supplied tablet or via the web by computer or smart phone. The Ætrium Guardian can control 1-1000's of Ætriums.

24-hour a day monitoring and control allows our growers to step away from their grow securely, knowing that their plants are safe. Were something to go wrong with the **Ætrium System**, our app can send texts and emails out to you and your team so that any issues can be quickly addressed without compromising the plants.



Ætrium-2 Specifications

Dimensions (W x D x H)

47.25"x 30"x 94.5" (1200mm x 760mm x 2400mm)

Growing Area

The **Ætrium-2** is a three tier aeroponic grow system with built-in, energy efficient, cool-running LED lights that takes up under 10 sq. ft. (0.9 m²) of floor space.

3 layers – 19.5" (496mm) between each layer
11.5" (292mm) plant space
8" (204mm) tub depth

Spray System

24 emitters spraying upward from bottom of tub

Pump

11.9 gallon/hour (0.75L/min) @ 25psi
Filter: Easy to replace and clean
Power: US: 110V/60Hz, <200W

Growing Tray - Trays configurable for Cloning & Vegging (interchangeable)

For Cloning: 98 or 77 holes for 2" foam cloner plugs
For Vegging: 04, 24 or 15 holes for 3.75" net pots or 2" foam plugs

Total Power Consumption

<600w

Control

via **Ætrium Guardian™** app

Ætrium-4 Specifications

Dimensions (W x D x H)

57" x 43.5" x 12" (1448 mm x 1105 mm x 305mm) W x D x H

Growth Trays

42" (1080 mm) x 54.5" (1386 mm) corrosion-resistant powder white colored coated aluminum tray with 5 rows of 4 holes for 3.75" net pots 10.6" (270mm) and 11.2" (285mm) on center. Each net pot will be surrounded by aeroponic spray heads delivering fresh nutrient mixture from manifolds intrinsic to the growth plate

Ætrium Dosing Base

Located under the **Ætrium** Growth Tub and can dose up to 5 tubs, one above and 4 additional in a row

Dynamic Dosing

- **Æ**ssense provides real-time measurement of total conductivity of the nutrient solution coupled with real time control
- Users can set nutrition targets in the **Ætrium** App and they can choose to achieve that by proportionally dosing up to four nutrients
- The **Ætrium** App continuously measures total conductivity (EC or Electrical Conductivity) as a surrogate for nutrition
- As plants use nutrients conductivity will go down and nutrients will be automatically added according to the proportions defined in the growth plan

Power Requirements

400 watts for 10 tubs or 200 watts for 5 tubs

Control

via **Ætrium Guardian™** app

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