



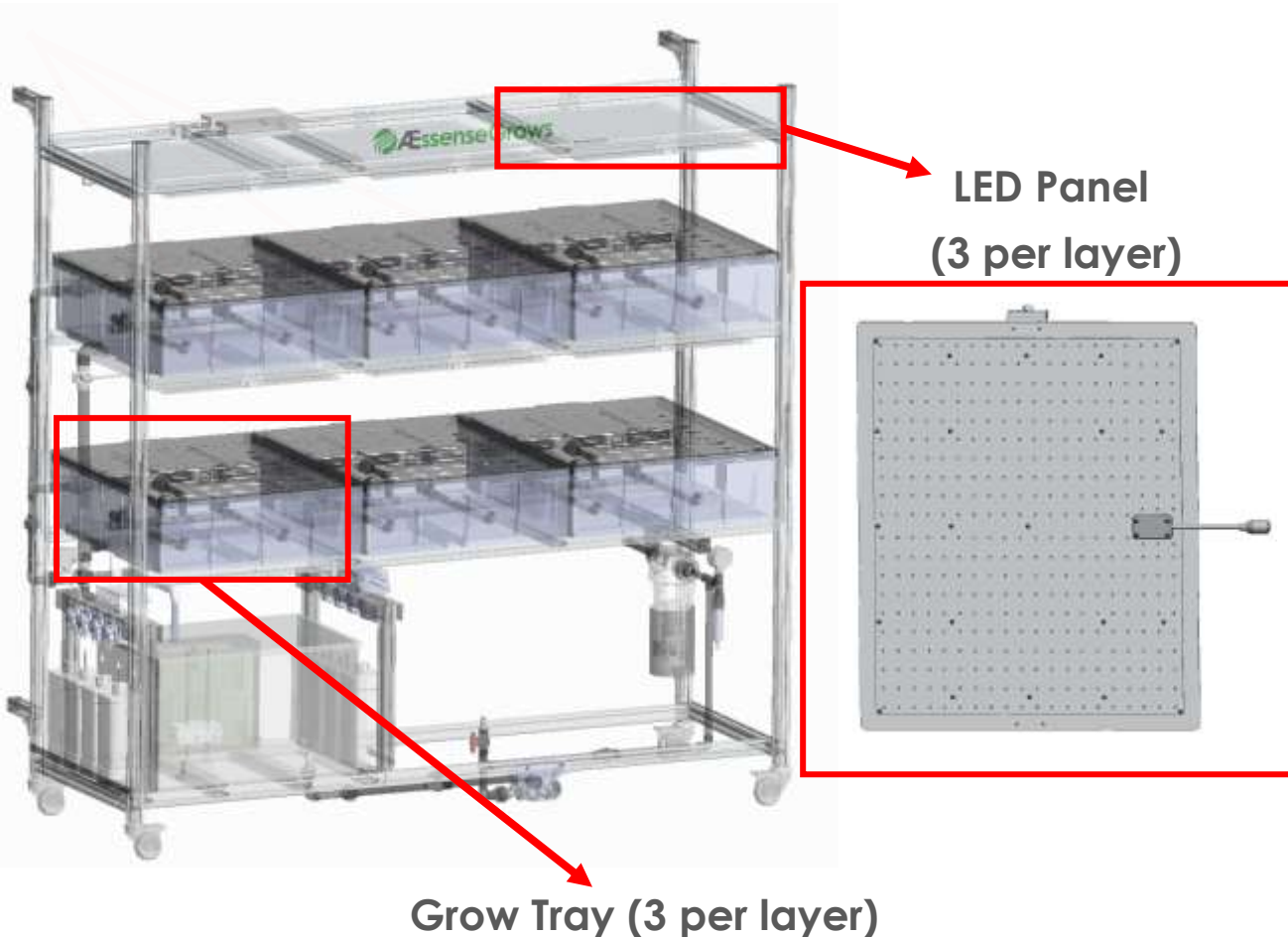
# Nursery-6

Data Sheet 10/2025

## The Nursery-6

The Nursery-6 is a compact 6-tray version of the proven AEtrium-2.1 for the cultivation of plants up to 12" (30cm) in height and for cloning/vegging in the AEtrium System. It can use either seed cups for aeroponic cultivation from seeds or foam collars for rooting cuttings.

Plants are cultivated in the **Growth Space**. This is where the growth trays with the high-pressure spray manifolds are located. Each growth tray is illuminated by one **LED Panel**.



## The Nursery-6 AEtrium Dosing Base

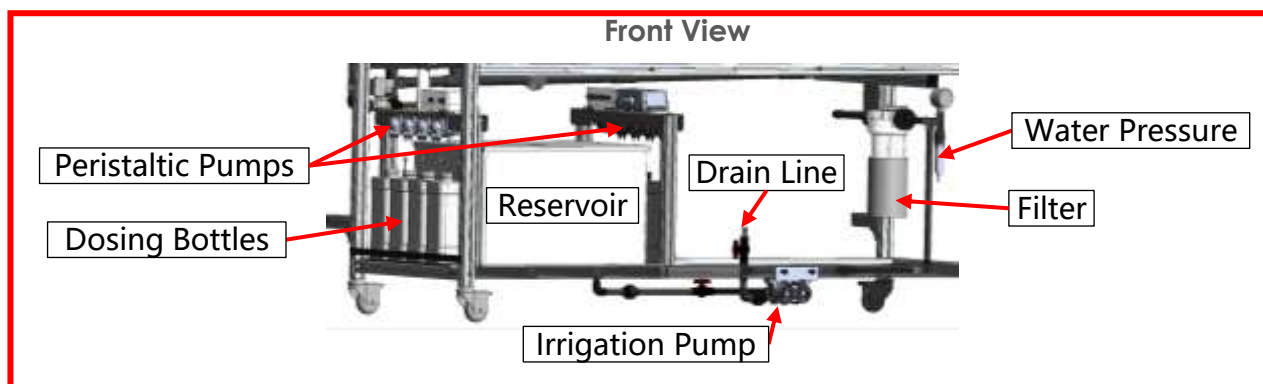
The AEtrium Dosing Base (**ADB**) is the main engine of the Nursery-6. it controls all water, dosing, and electrical operations.

Back View



ADB (AEtrium Dosing Base)

Front View



### Irrigation Pump and Filter

The Irrigation Pump moves water from the Reservoir through the pipes to the aeroponics manifold spray heads in the Growth Space. The filter removes matter that could clog the aeroponics spray heads. The irrigation pump is used for mixing and irrigation.

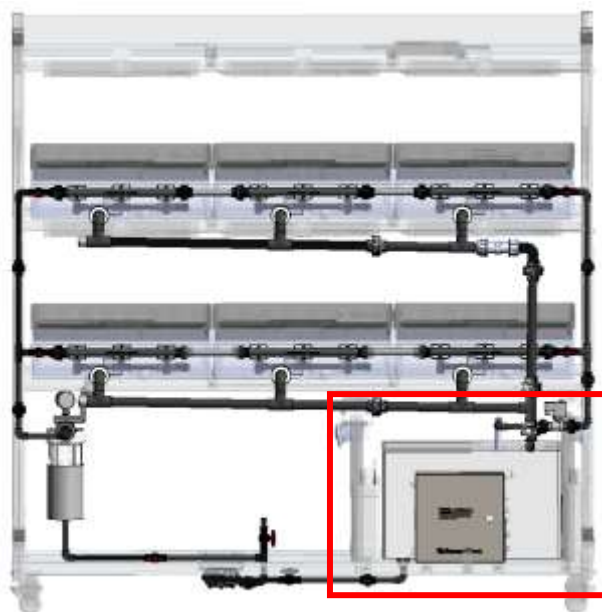
### Peristaltic Pumps, Dosing Bottles and Reservoir

Driven by the GGM the eight Peristaltic Pumps add a grower determined ratio of fertilizer and amendments to the water in the Reservoir from the Dosing Bottles. The eight dosers can be configured as pH up, pH down and up to six bottles of fertilizer or cleaning solution. The 30 gallon/113 liter reservoir is the storage tank for nutrient rich water circulated through the Growth Space.

## The Nursery-6 AEtrium Dosing Base

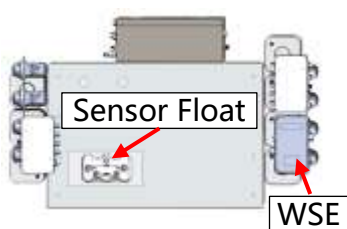
The AEtrium Dosing Base (**ADB**) is the main engine of the Nursery-6. it controls all water, dosing, and electrical operations.

Back View



**ADB (AEtrium Dosing Base)**

Top View



Back View



### Sensor Float and WSE

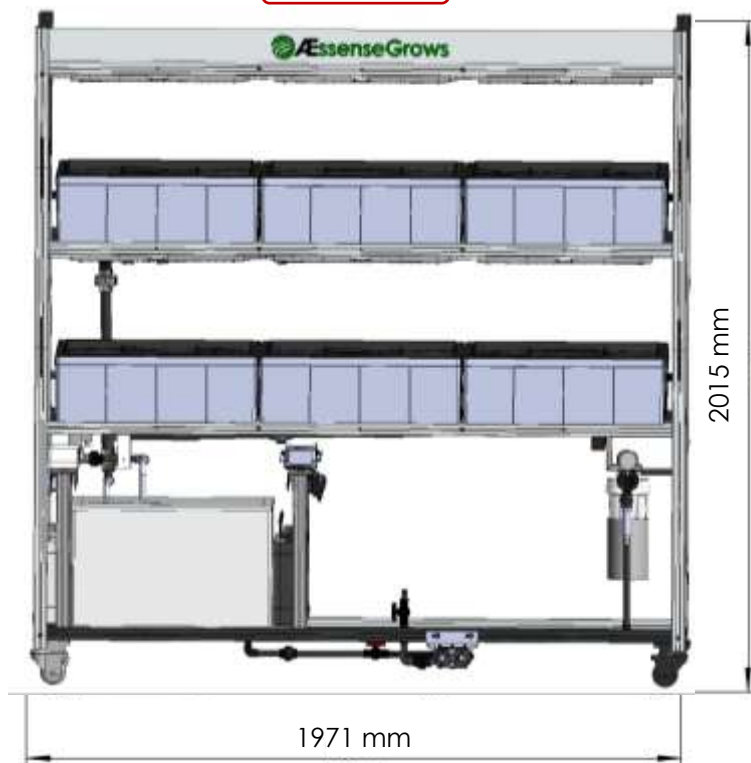
The Sensor Float holds the pH, temperature and EC sensors in the reservoir sending their signals to the Water Sensing Module (**WSE**) to provide accurate feedback to the GGM to control the cultivation.

### Power Distribution Unit (PDU)

The PDU is the "brain" of the AEtrium Dosing Base (ADB) that controls the dosing, lights and irrigation in the Growth Space. It can directly be controlled via GGM Lite or it can be integrated into a server base AEtrium System via WiFi.



Front View



Top View




Back View



Blue: Irrigation Lines  
Orange: Drainage Lines



# Nursery-6 Specs

Description	Min	Typ	Max
Grow tray grow sites (May be customized by using caps to block unused holes)		63	
Grow tray size		22" x 27" (559 mm x 686 mm)	
Grow tray area		4.13 ft <sup>2</sup> (0.38M <sup>2</sup> )	
Hole Spacing		3" hole center to hole center, 1" hole edge to edge	
Recommended Ceiling Height	9' (2743mm)	10' (3048mm)	Unlimited
Offset from walls (front back sides)	30" (762mm)	36" (914mm)	Unlimited
Average daytime wattage <sup>1</sup>	—	750 W	—
Peak hrly heat output <sup>1</sup>	—	2,556 BTU/h	—
Total daily energy consumption <sup>1</sup>	—	15.5kWh	—
Total daily heat generation <sup>1</sup>	—	52,832 BTU	—
Average daily water consumption (0.2-0.3 gal./day/tray)	1.2 gal. (4.5L)	1.8 gal. (6.8L)	
Square Feet of Canopy		27.5 ft <sup>2</sup> (2.6M <sup>2</sup> )	
# of LED Panels		6	
Nursery-6 dimensions (L x W x H)		77.6"(L) x 31.5"(W) x 79.33"(H) (1971 mm x 800 mm x 2015 mm)	
Nursery-6 dry weight		440 lbs (200 kg)	
Recommended mechanical chiller (an optional liquid loop chiller can be controlled by the GGM)		1/3 HP (200W/H)	
PDU input voltage (specified at time of order)		110-120 V <sub>AC</sub> Or 220-240 V <sub>AC</sub>	
PDU input frequency North America		60 Hz	
PDU input frequency Europe		50 Hz	
PDU power draw	—	325W	—
Operating temperature	34 °F (1 °C)	—	104 °F (40 °C)
Storage temperature	-22 °F (-30 °C)	—	176 °F (80 °C)

1. @ 100% light intensity

Description	Value
Materials of construction	8020 aluminum extrusions for load bearing components. Light tight ABS and PVC plastic for piping, trays and reservoirs
Water temperature sensor	Range: 32-122°F (0-50°C) Resolution: 1°F (0.1°C)
Water pH sensor	Range: 0-14 pH Resolution: 0.01 pH
Water Electrical Conductivity (EC) sensor	Range: 2–20,000 µS/cm
Supplied water (EC) <sup>1</sup>	<250µS/cm <sup>3</sup>
Sediment Filter	
Material	Polypropylene frame 304 Stainless mesh
Size	80 mesh (0.18mm)
Return Water Filter	
Material:	Nylon mesh
Size	30 mesh (0.3mm)
Drain:	A manual drain valve is provided on the reservoir Users must periodically manually add water
Water fill:	
Reservoir Capacity	30 gal (113 L)
Dosing Bottle capacity	0.53 gal (2 L)
# of Dosing Bottles/Peristaltic Pumps (can be configured with pH+, pH- & 2 fertilizer bottles or pH+ and three fertilizer bottles)	8
Maximum pH up solution	<30% potassium hydroxide (KOH) or equivalent
Maximum pH down solution	10% nitric acid (HNO <sub>3</sub> ) or equivalent
ADB dimensions (L x W x H)	25.6" x 23.8" x 25.7" (650 mm x 660 mm x 710 mm)
ADB dry weight	120 lbs (55 kg)

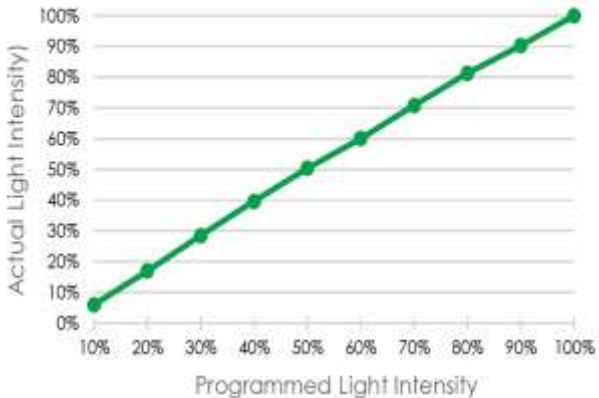
1. It is highly recommended that one do a complete analysis of the supplied water prior to commencing cultivation. One may need to condition the water to reduce the conductivity of it for best cultivation results.

# Nursery-6 LED Specs

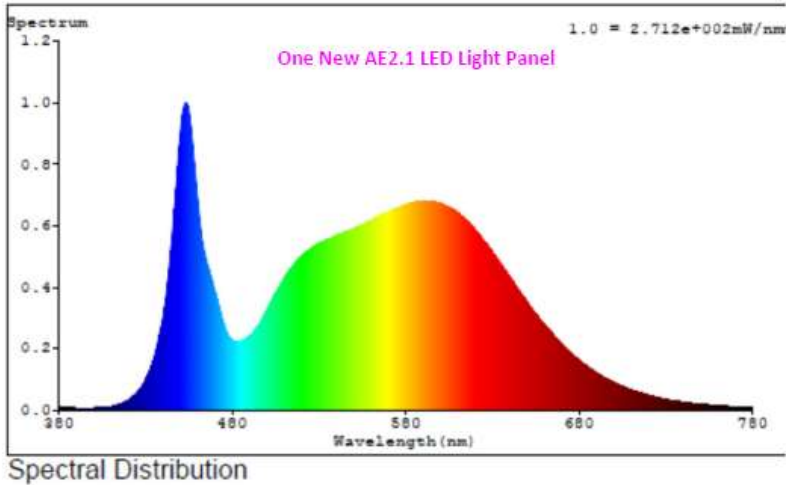
Description	Min	Typ	Max
LEDs AC power draw		480 W	
LED panel voltage		28 V	30V
Continuous dimming range	10%	–	100%

Description	Value
LED Panel PPF	120 $\mu\text{mol/s}^{-1}$
Average PPFD 4" above tray <sup>1</sup>	300 $\mu\text{mol/m}^2/\text{s}$
Average PPFD 8" above tray <sup>1</sup>	380 $\mu\text{mol/m}^2/\text{s}$
LED Panel dimensions (L x W x H)	24.8" x 20.5" x 1" (630 mm x 520 mm x 25 mm)
LED Panel weight	9.8 lbs. (4.4 kg)

## LED Lighting Dimming Curve



## LED Lighting Spectrum

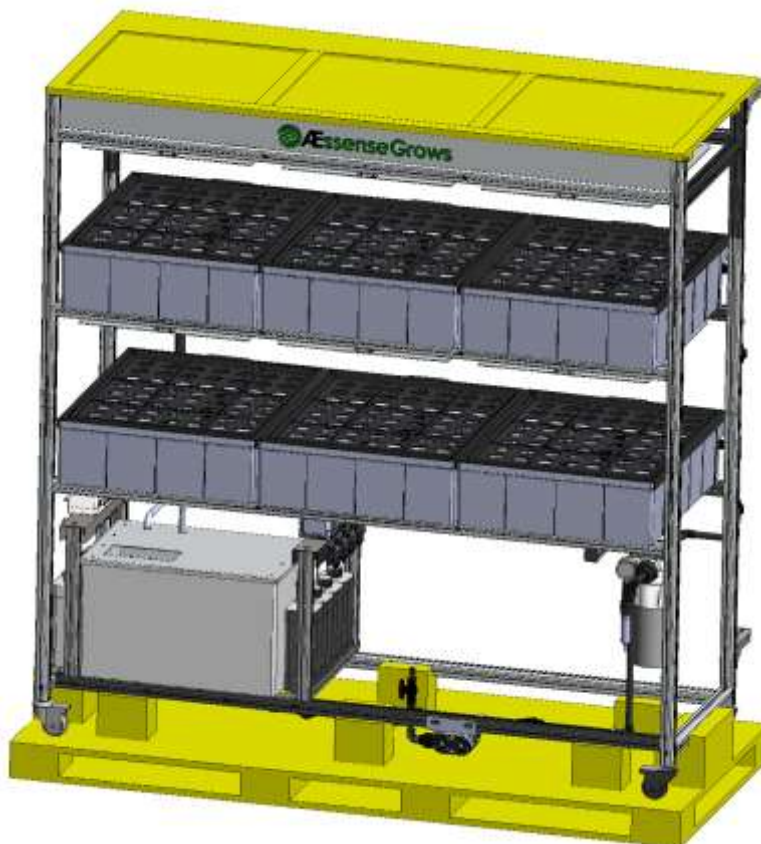


## Nursery-6 Shipping and installation

The Nursery-6 is shrink-wrapped and palletized for shipment. During shipment potential contaminants could enter the Nursery-6 so it is highly recommended that it be completely sanitized before use.

The Nursery-6 ships complete on a pallet. Lift it off the pallet and roll it into position

- LWH (on pallet): 80" x 34" x 81" / 2032\*850\*2063mm
- Weight (including the pallet): 440bs/200kg



A 205 E Alma Ave #H6  
San Jose, CA 95112

P 1.800.369.8673

O 1.650.564.3058

E [info@aessensegrows.com](mailto:info@aessensegrows.com)