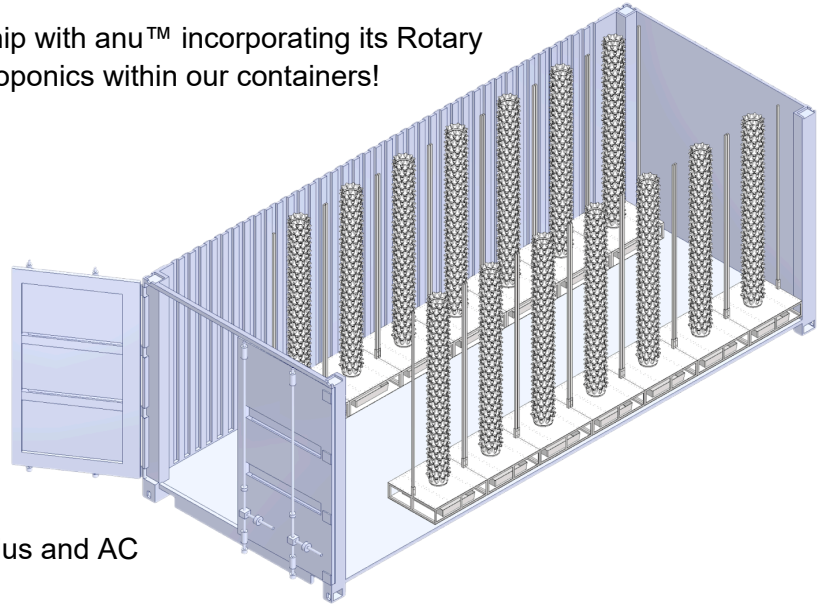




ekō Solutions™ is excited to announce its partnership with anu™ incorporating its Rotary Aeroponics® technology, an advanced form of hydroponics within our containers!



## Watch Demo Video

## Installation Requirements

- Internet: WiFi or Ethernet Connection
- Power Requirements: 240V, 50 Amp
- Water: ¾-in garden hose, city water compatible
- Footprint: L20' x W8' x H9' plus door swing radius and AC

## Yield Density

- A 20ft shipping container holds 3,920 plants on 14 Rotary Aeroponic® towers, each plant yielding 1-4 oz depending on variety and duration; CAPEX surface area calculations are needed to equalize increased planting densities in rotary 3D growing methods as opposed to low density 2D growing stationary methods.

$$\text{Canopy Surface Area} = (\text{Height } 83.75\text{in.} * \pi * \text{Diameter } 24\text{in.}) * (14 \text{ tower sleds per } 20\text{ft. container}) = 614\text{ft}^2$$

$$\text{CAPEX per Harvestable Canopy Surface Area} = \frac{\text{Container Purchase Price}}{614 \text{ft}^2}$$

## Resource Efficiency

- Rotary Aeroponics® uses ½ the LEDs of other tower systems, consuming less energy, emitting less heat, and improving HVAC efficiency for compounded energy savings with hyper efficient full spectra and far-red LEDs.
- Total system power usage is 100 kWh/day which costs \$12.48/day assuming the national, commercial average of 12.48¢/kWh when air conditioning is operating at all times, needed less so in cooler months.
- Lower power usage would be experienced in cooler months/regions without air conditioning (reduces ⅓ of power usage). Power usage can be eliminated by combining renewable energy, eligible to be 25-50% funded by [USDA REAP grants](#), remaining costs may be eligible for transferable energy tax credits.
- 95% less water usage than conventional field farming, or average of 8 gallons/week for each of the 14 tower sleds, totalling 112 gallons/week. U.S. water costs average \$1.50 per 1,000 gallons, or 0.15¢/gal.
- Self-Nurturing™ seed pods eliminate labor-intensive, failure-prone seedling germination and transfer steps. Anu's easy to use, compostable seed pods contain everything necessary for healthy plant growth.
  - Labor rates for planting, harvesting, and periodic tower/reservoir cleaning is on average 60 seconds per plant. Assuming \$25/hour, this is \$0.42/plant. Rent and final retail packaging/shipping costs not included.
- OPEX for leafy plants harvested in ≈40 days is below. More profitable fruiting plants require longer duration.

$$\text{OPEX per plant} = \$0.42 \text{ labor/plant} + \left( \frac{\$12.48 \text{ power/day} * 40 \text{ days}}{3,920 \text{ plants}} \right) + \left( \frac{0.15\text{¢/gal} * 112 \text{ gal/week}}{3,920 \text{ plants} * (1 \text{ week}/40 \text{ days})} \right) = \$0.55 + \text{Seed Pod Price}$$

## Plant Offerings

- Anu™ Self-Nurturing™ compostable seed pods with Rotary Aeroponics® provides sufficient light intensity to grow a wide range of fruiting/flowering plants; other container farms struggle to do so due to light limitations.
- Seed pod prices vary based on subscription quantity and variety, vetted through our onboarding process. For Container inquiries email [ekosales@landbetterment.com](mailto:ekosales@landbetterment.com), for seed pod pricing, email [sales@growanu.com](mailto:sales@growanu.com).

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