

DATA SHEET

# Smart Algae Harvester A25

The Smart Algae Harvester™ A25 is OriginOil's entry-level harvester, ready for commercial production and an important R&D tool.

Based on our core platform, Electro Water Separation™ (EWS), the A25 utilizes a continuous flow system to efficiently dewater and concentrate the microalgae, removing 99% of the water, and leaving a 5-10% solids concentration.

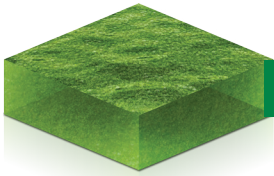
Flow rates variable based upon operator controlled settings:

- Maximum flow rate of 25 LPM (6.5 GPM) – processing 34,500 liters per day in continuous harvest (23 hours operation).
- Sufficient for a 172,500-liter growth facility at 20% daily harvest, depending on algal strain, growth conditions, and growth methodology.

Microalgae concentration: Wide flexibility from less than 125mg to as much as 3g/liter dry weight.

## Technical Data

MECHANICAL CONSTRUCTION	
Dimensions	Length 215 cm, Width 71 cm, Height 130 cm (L 7'1" W 2'4, H 4'3")
Weight	182 kg (400 pounds)
POWER SUPPLY	
Electrical Requirements	120/240 volts, 50/60 hertz
Power Consumption	Approximately 0.7kWh per m3



## Product Features

- Processes algae water directly
- Electrical pulsing process
- Low-energy electromagnetic pulsing system
- Integrated biomass concentrator
- Disinfected concentrate
- High continuous throughput
- Fully automated touch screen control panel
- Distributed architecture



The Smart Algae Harvester A25, capable of processing up to 25 liters per minute.

## Advantages

- No pre-concentrating or dewatering required
- No synthetic compounds
- Total energy less than 0.7 kWh per cubic meter of incoming algae water
- Ability to remove up to 99% of the water from the algae
- Greatly extended shelf life
- Scalable and efficient
- Easy installation
- Flexible topology

## Benefits

- Capital and operating savings
- Organically pure algae concentrate, process water
- Operating savings, consumables minimized
- Uniform Intermediate Feedstock
- Product can be easily shipped offsite for processing
- Minimized infrastructure
- Mobile harvester fleet
- Easy to ramp up and reassign machines as needed

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