

Project:

Algae to Omega

Building Type: Indoor Agriculture

Summary

Algae to Omega Holdings, Inc. operates a 60,000 sq ft facility in Oakland Park, Fla., where they produce and process algae biomass for personal care and nutritional products. While attempting to expand its business into other markets, the company's efforts stalled due to limitations in current farming methods that prevented them from producing pure cultures in large quantities. By using Solatube Daylighting Systems, Algae to Omega was able to solve this problem through daylighting.

Objective

Algae to Omega sought a light source that would allow them to increase algae growth without compromising the company's closed loop production system.

Products Used

8 Solatube SolaMaster® Series 750 DS-O units (21 in. / 530 mm)

Solution

Solatube Daylighting Systems were used to transfer the maximum amount of daylight with minimal light loss directly into 3,000 gallon tanks that were nine feet deep. Color-specific LED lighting was also used to enhance algae growth. This combination allowed Algae to Omega to maximize algae production while precisely controlling all elements of their continuous closed loop production system. This resulted in a scalable modular operation that was low cost, energy efficient, and environmentally sound.

Testimonial

"The difference in using Solatube is dramatic because of the reflectivity rate. We tried fiber optic lighting, but the Solatube Daylighting System—with its specialized tubing and dome system—is the best solution in the market today."

Geronimos Dimitrelos

Chairman and CEO
Algae to Omega

