



Seaweed Bioreactors

Turnkey gametophyte and sporophyte bioreactors

TURNKEY GAMETOPHYTE & SPOROPHYTE BIOREACTORS



Accelerating Research & Development

- Control culture parameters
- Historical Data
- Selective breeding
- Produce biomass for direct seeding

Reliable Seed Supply

- Predictable results to prevent delayed farm deployment
- Improve downstream yield with continuous supply of seed with desirable traits
- Reduce the requirement for collecting wild seed
- High-quality seaweed seed available when you need it

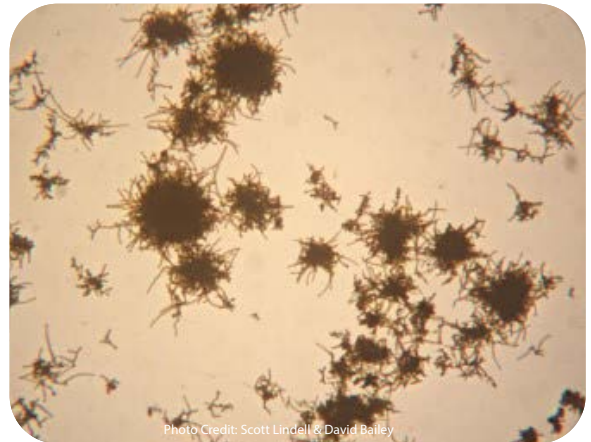


Photo Credit: Scott Lindell & David Bailey

Healthy sugar kelp gametophyte culture in the gametophyte bioreactor at Woods Hole Oceanographic Institute (4x magnification)

MODULAR DESIGN



Independently temperature-controlled enclosure



Closed-loop pH control with automated CO₂ dosing



Motorized blade for biosecure fragmentation



0.2 μm filtration for biosecure media and air exchange



Autoclavable tank, lid, filters, and tubing



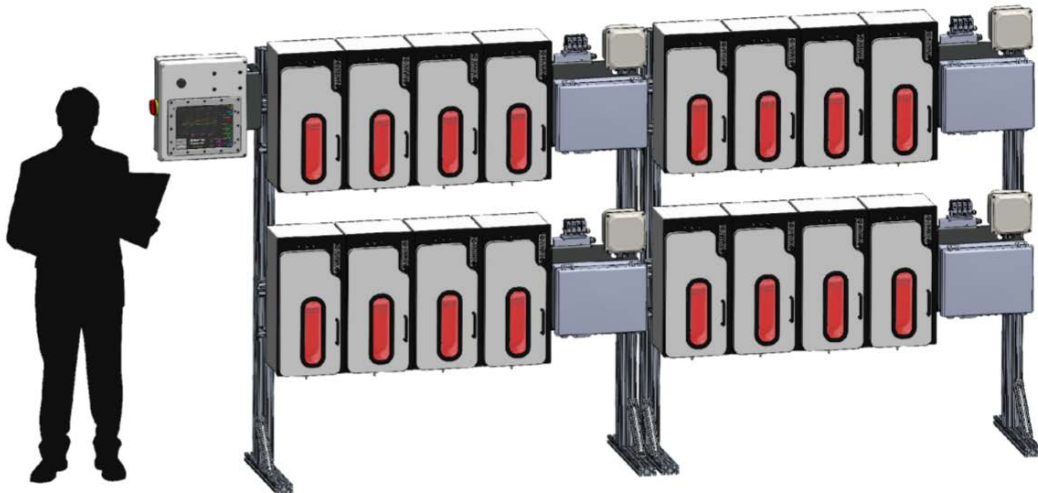
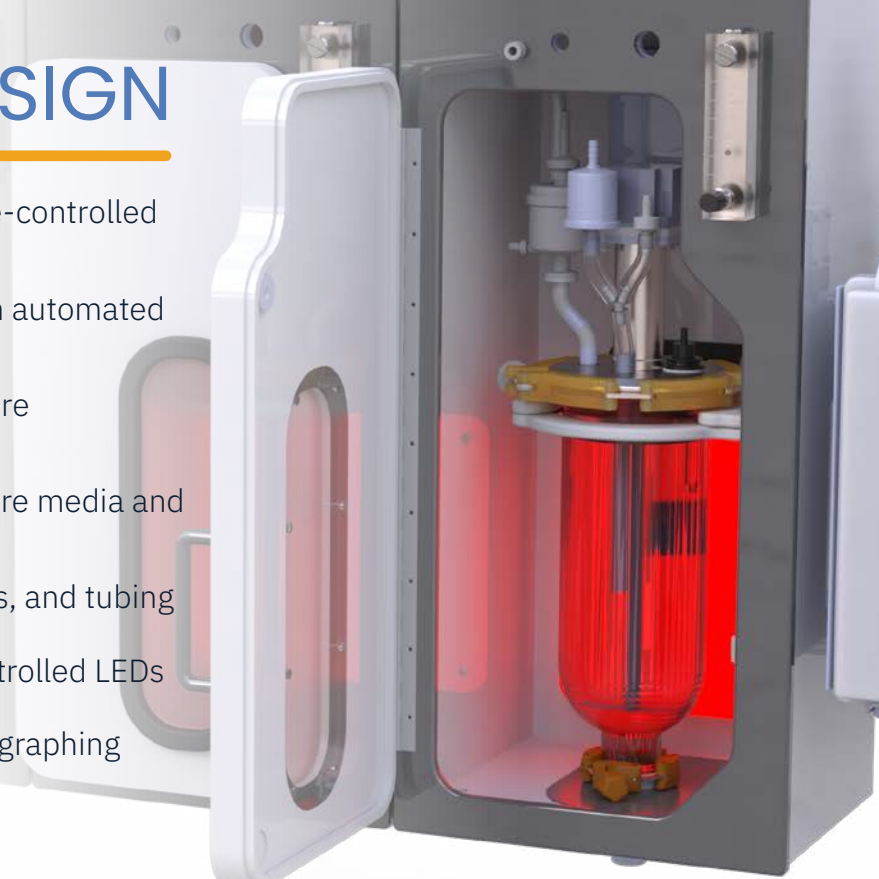
Spectrum and intensity controlled LEDs



Real-time data logging and graphing



Web-based remote access





Research at the Woods Hole Oceanographic Institution is focused on testing high performing strains of kelp, and depends on an ability to grow vigorous gametophytes. Industrial Plankton has developed Photobioreactor systems uniquely suited to research and commercial scale culture of this critical phase of the kelp nursery process.



We believe that the success of future kelp nurseries will depend on growing gametophytes more efficiently, productively, and consistently, and Industrial Plankton Photobioreactors are leading the way.

Industrial Plankton's Gametophyte Bioreactor System has been a game changer. They have optimized a system that promotes rapid growth of large clean cultures. We now spend less time on daily culture maintenance and more time on optimizing the outplanting process.



95 grams of gametophyte biomass from Bioreactor

Scott Lindell & David Bailey
Woods Hole Oceanographic Institution



Global Innovation from Canada



Industrial[™] *Plankton*

Founded in 2010, Industrial Plankton designs and manufactures **turnkey bioreactors** in Canada for clean, on-site, live algae production for **aquaculture**, **research lab**, and **biotechnology** uses.

Contact Us

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