

**IndustrialTM
Plankton**

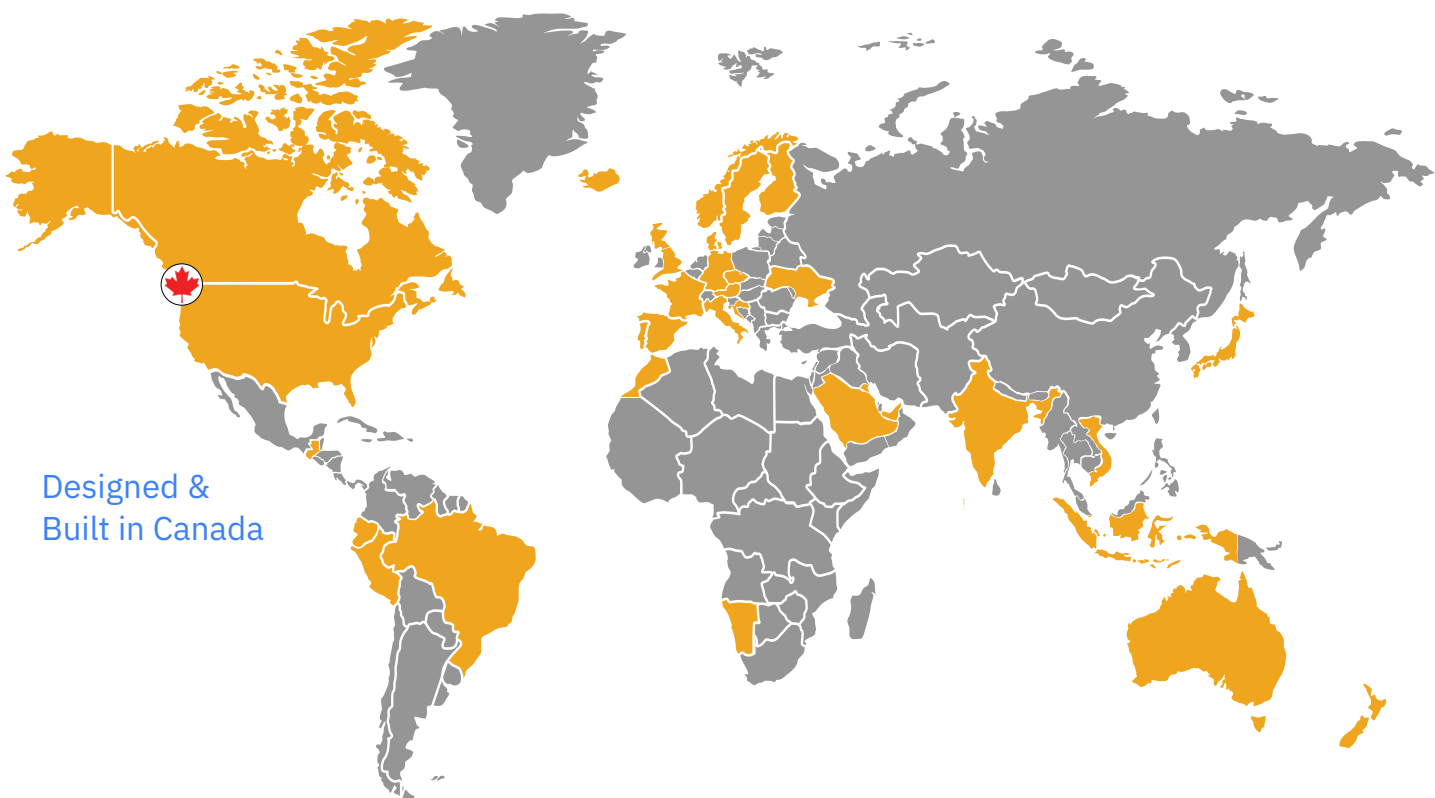
Live Algae Culture Equipment



www.industrialplankton.com

Global Reach

Over **200** algae bioreactors used by clients across **35 countries**.



Designed &
Built in Canada

Industrial Plankton™

Biosecure Algae Cultures for Hatcheries



Order & Install

Equipment ships directly from our facility. Uncrate and set up in less than a day.



Clean (1 day)

Run the clean-in-place (CIP) system to sanitize the reactor before each inoculation without scrubbing any tanks.



Inoculate (1 hour)

Inoculate with a small volume of clean algae using biosecure disconnects.



Scale up (4-14 days)

Media is added automatically, while temperature and pH are continuously controlled to optimize growth.



Harvest (2-4 months)

The PBRs reliably maintain a clean culture at high density for months at a time while harvesting continuously.

Algae production is a bottleneck for many hatcheries, limiting survival and ultimately **revenue**. For successful larval cultures, algae need to be highly nutritious and free of pathogens.

Traditional algae production is unreliable, labor-intensive, and uses significant floorspace.

Efficient Algae Culture

Industrial Plankton's PBRs **only require a fraction of the labor, water, and floorspace** of traditional systems.

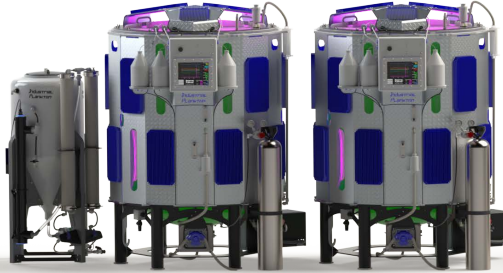


Our Photobioreactors



PBR 1250L

Daily Harvest: 100-500 L/day



PBR 2500L

Daily Harvest: 200-1000 L/day



PBR 100L

Daily Harvest: 10-50 L/day

Continuous Production Densities (million cells/mL)

- | | | | |
|----------|-------------------------------|-----------|----------------------------------|
| • 10-20 | <i>Isochrysis</i> spp. | • 11-26 | <i>Thalassiosira pseudonana</i> |
| • 15-26 | <i>Chaetoceros calcitrans</i> | • 0.9-3.5 | <i>Thalassiosira weissflogii</i> |
| • 10-25 | <i>Chaetoceros muelleri</i> | • 1.2-4.0 | <i>Tetraselmis</i> spp. |
| • 60-150 | <i>Nannochloropsis</i> spp. | • 1.5-3.0 | <i>Rhodomonas salina</i> |

More algae that thrive

Chaetoceros spp. • *Phaeodactylum* spp. • *Pavlova* spp. • *Skeletonema* spp. • *Karenia brevis*
Haematococcus pluvialis • *Spirulina* spp. • *Chlamydomonas* spp. • *Chlorella* spp. • *Cyanobacteria*

Features



Biosecure Algae Cultures



LEDs Designed for Algae



Real-time Graphing and Data Logging



Integrated Cooling and Heating



Closed-Loop pH Control



Self Cleaning CIP System



Automated Scale-Up and Harvest



Remote Access

A Few Clients



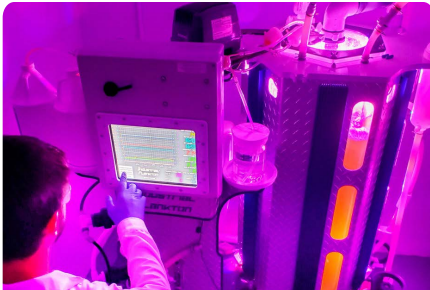
Molluscan Broodstock Program



Cornell Cooperative Extension



Shrimp Improvement Systems



Homegrown Shrimp (USA)



NOAA Fisheries Milford Lab



Vitapro Nicovita



Mallet Oysters



Nova Harvest Ltd.



Ferry Cove Hatchery

Global Innovation From Canada

Bioreactors for clean, on-site,
live algae production

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

Our algae bioreactors are optimized for ease of use and **biosecurity**. Their automation increases culture **reliability** and saves operators countless hours. The result is **compact** equipment that **reliably** produces **biosecure**, **high-density algae**.



Industrial[™]
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