

**Industrial  
Plankton™**

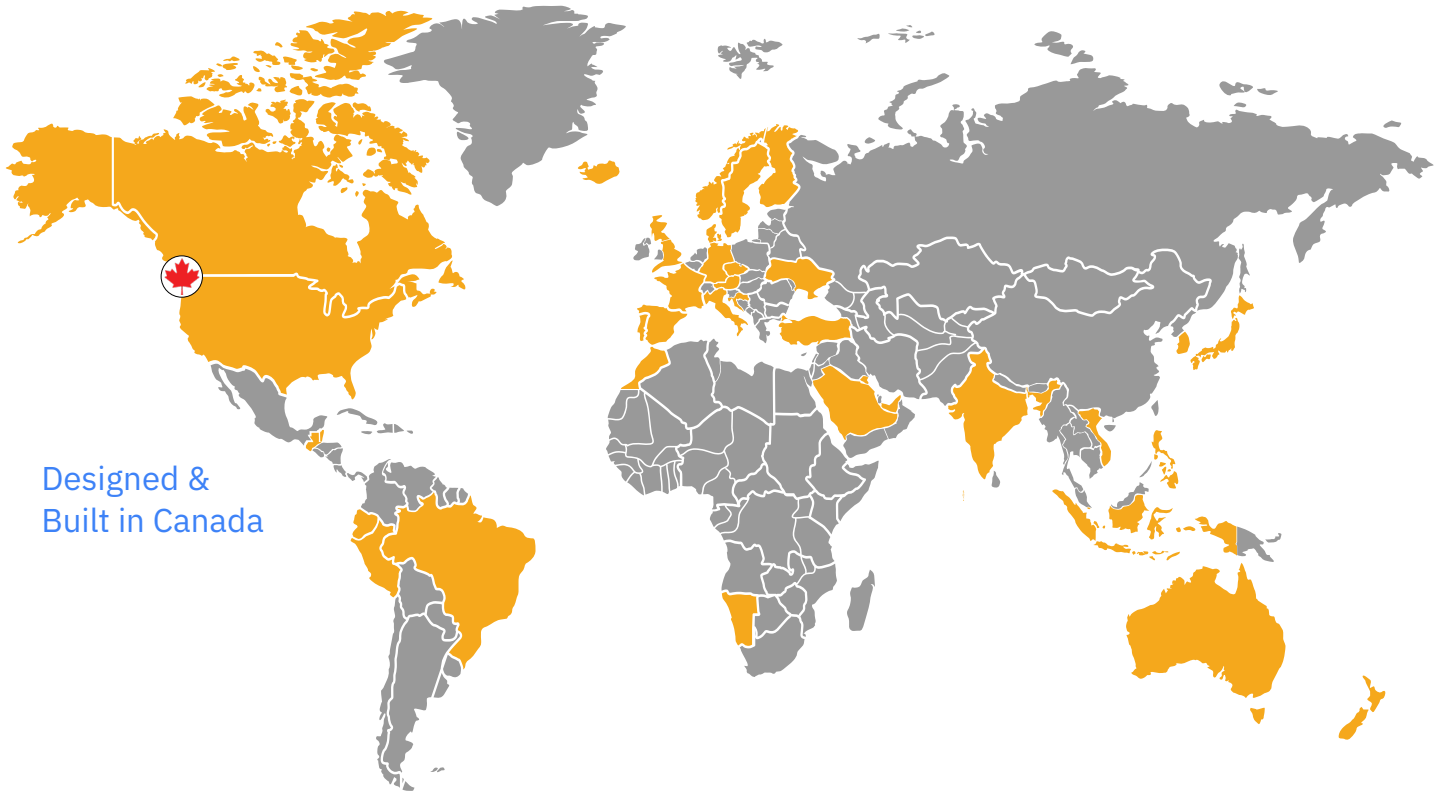
Live Algae  
Culture Equipment



[www.industrialplankton.com](http://www.industrialplankton.com)

# Global Reach

Over **300** algae bioreactors used  
by clients across **40 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.

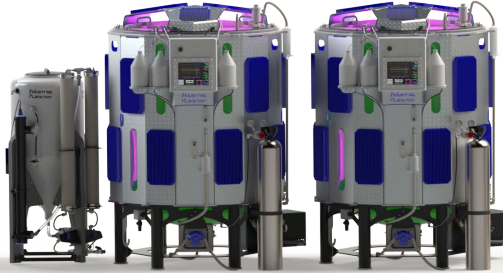


# Our Photobioreactors



**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 *Isochrysis* spp.
- 15-26 *Chaetoceros calcitrans*
- 10-25 *Chaetoceros muelleri*
- 60-150 *Nannochloropsis* spp.
- 11-26 *Thalassiosira pseudonana*
- 0.9-3.5 *Thalassiosira weissflogii*
- 1.2-4.0 *Tetraselmis* spp.
- 1.5-3.0 *Rhodomonas salina*

## 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

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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**<sup>™</sup>  
**PLANKTON**

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