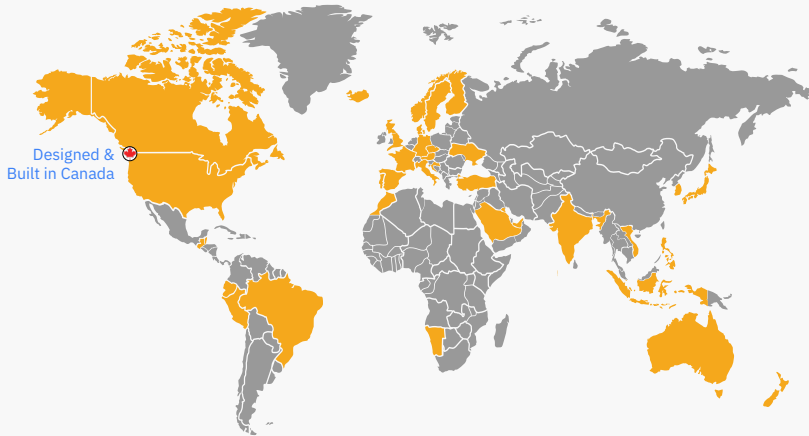


Algae Photobioreactors

for Biotech



Industrial Plankton™



Designed &
Built in Canada

We can't name names,
but we can tell you our bioreactors have quietly
powered breakthroughs in places you have
definitely heard of.

Since 2010, our Canadian-built bioreactors have
earned the trust of customers in **40+ countries**,
with **300+ installed worldwide**.

Industrial Plankton™

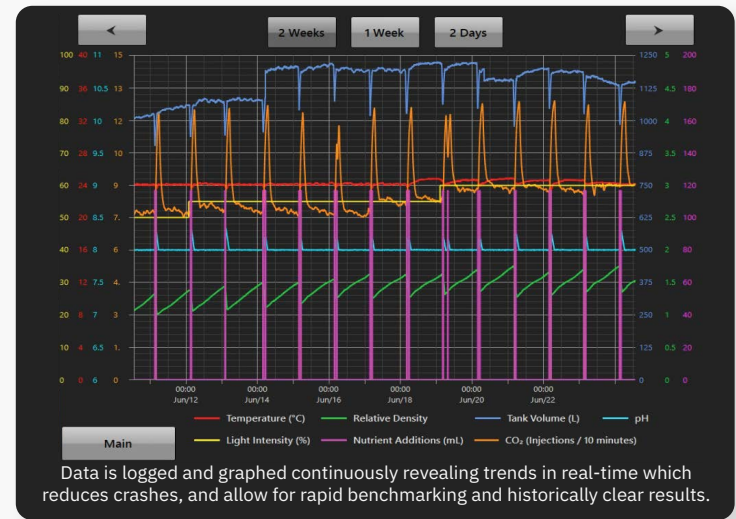
Accelerating R&D

When doing algae R&D, reliability, repeatability, and confidence in results are critical.

Key advantages:

- **Automation:** Automated cleaning, harvesting, and media addition
- **Real-time optimization:** Integrated sensors, remote access, and data logging for precise control and continuous improvement
- **Plug & play:** Quick setup to produce high-quality algae immediately, with minimal floor space

Reduce timelines, ensure repeatable results, and reach commercialization faster.



Algae Seed Train

Inoculating mass-scale systems with poor-quality algae reduces daily yield and increases downtime, which cripples profitability

Key advantages:

- **Biosecure inoculum:** Clean, contaminant-free seed stock to maximize yields
- **Higher productivity:** Longer culture life, fewer crashes
- **Operational efficiency:** Less labor with automated cleaning, harvesting, and remote monitoring

These advantages lower OPEX and ensure reliable biomass to boost profitability.



Self Cleaning
CIP System

Real-time Graphing
and Data Logging

LEDs Designed
for Algae

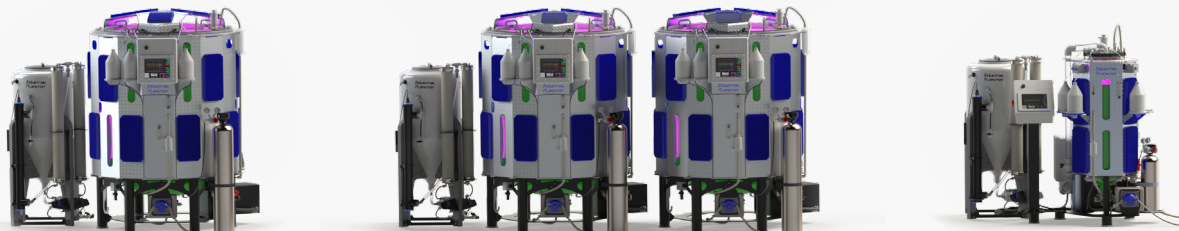
Automated Scale-
Up and Harvest

Biosecure Algae
Cultures

Integrated Cooling
and Heating

Closed-Loop
pH Control

Photobioreactor Product Family



Specifications	PBR 1250L	PBR 2500L	PBR 100L
Total Volume	1250 L	2500 L (2 x 1250 L)	115 L
Working Volume	1200 L	2400 L (2 x 1200 L)	100 L
Min Operations Volume (per vessel)	160 L	160 L	16 L
Recommended Inoculum Volume (per vessel)	20 L	20 L	2 L
LEDs	Algal spectrum LED lights (2160 W) Adjustable Intensity	Algal spectrum LED lights (4320 W) Adjustable Intensity	3-Channel Adjustable spectrum, intensity controllable (600 W)
Vessel Material	Acrylic	Acrylic	Kavalier and Schott Borosilicate Glass Tank
Circulation Type	Airlift	Airlift	Airlift. (Stirred tank customization available)
Cooling (per vessel)	5,000 BTU chiller, or 10,000 BTU for High Ambient Temperature Option	5,000 BTU chiller, or 10,000 BTU for High Ambient Temperature Option	2,800 BTU chiller
Heating (per vessel)	255 W heater	255 W heater	255 W heater
Cleaning	Automated Self Cleaning CIP System. Autoclavable tubing, filters and disconnects		
Sensors	Real-time pH, density, temperature, and volume. Customizations available.		
Operation	Batch, fed-batch, or continuous operation		
Strains That Thrive	<i>Tetraselmis</i> spp. • <i>Rhodomonas</i> spp. • <i>Nannochloropsis</i> spp. • <i>Isochrysis</i> spp. • <i>Pavlova</i> spp. <i>Chaetoceros</i> spp. • <i>Skeletonema</i> spp. • <i>Thalassiosira</i> spp. • <i>Phaeodactylum</i> spp. • <i>Karenia</i> spp. • <i>Haematococcus</i> spp. • <i>Spirulina</i> spp. • <i>Chlamydomonas</i> spp. • <i>Chlorella</i> spp. • <i>Cyanobacteria</i>		

Ready to scale with real-time data and biosecure cultures?



Email sales@industrialplankton.com or
call 1-844-818-0304 to connect with our team.