

IndustrialTM PLANKTON

Automated Bioreactors



www.industrialplankton.com

Turn Key Algae Solutions



Biosecure Algae Culture



Self Cleaning

CIP Chemical Jet Spray



Automated Scale-up & Harvest



High Surface Area Tanks



Closed Loop pH Control



Integrated Temperature Control



Web-based Remote Access



Graphing & Data Logging



SPECIFICATIONS

PBR 1250L

Continuous Production
(~450L Harvest/Day):

Species • Density x10⁶ Cells/mL

Thalassiosira pseudonana • 20
T-Iso • 19
Nannochloropsis sp. • 94
Tetraselmis sp. • 3
Thalassiosira weissfloggii • 18
Skeletonema costatum • 20
Haematococcus pluvialis • 1.5

Batch Production

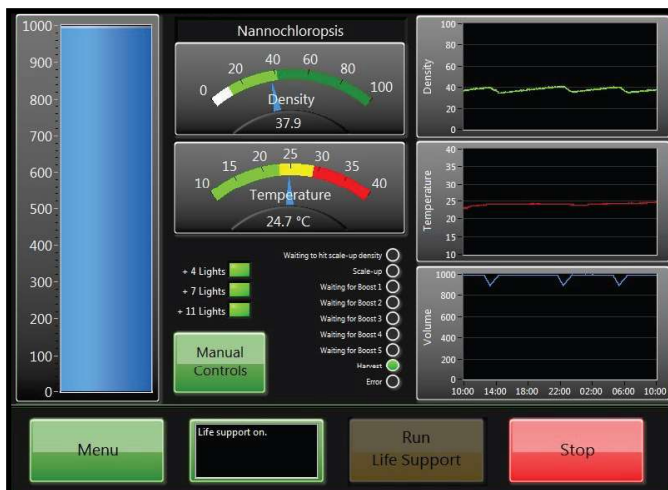
Species • Density x10⁶ Cells/mL

Tetraselmis sp. • 5
Nannochloropsis sp. • 235
Thalassiosira pseudonana • 60

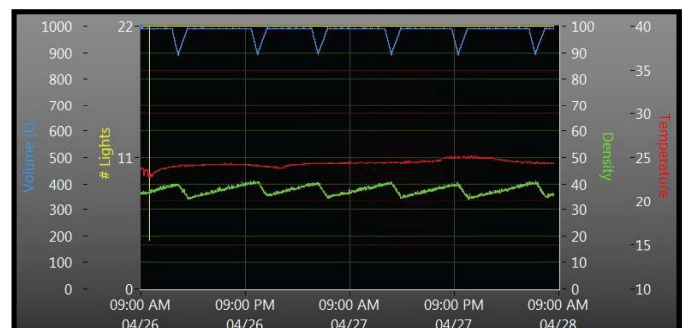
Volume (L/Gal)	1250/330
Steady State Power Consumption	~1800W
Power Requirements (VAC/Hz/Amps/Phase)	120/60/30/1 230/50/16/1
Assembled Dimensions (LxWxH)	60" X 60" X 84"
Ideal Working Space (LxWxH)	1.98m X 1.98m x 3.05m 78" x 78" X 120"
Minimum Doorway Clearance (WxH)	1.5m x 2.03m 59" X 79 ⁷ / ₈ "
Yearly Maintenance Cost	\$1100 USD
Scale-up Time	8-10 days

HOW IT WORKS – IN A NUTSHELL

- 1 Inoculate**
 Hook up 20L carboy of algae with biosecure disconnects to inoculate.
- 2 Scale up**
 PBR will add water & nutrients, and control pH & temperature as it automatically scales up over 8-10 days.
- 3 Harvest**
 The PBR will automatically harvest in either batch or continuous mode. This can be easily changed through the touch screen controls.
- 4 Clean**
 Between batches run the automated cleaning cycle to clean & sterilize the reactor. After a few hours the reactor is ready to be re-inoculated with a fresh starter culture.



Touch Screen Controls



Real Time Data Logging

Other Products



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