Automate & Control:

- light intensity
- pH via CO₂ delivery
- temperature
- motor speed
- harvest schedule
- nutrient delivery
- replace evaporated water
- 4 peristaltic pumps
- reactor rotation speed

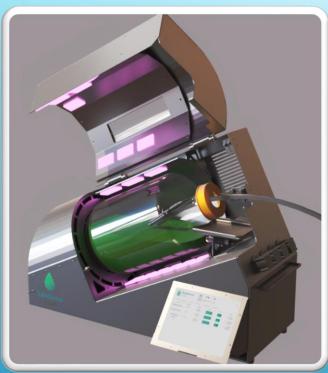
Sensors included:

- pH
- temperature
- light intensity (lux)
- available on request
 - dissolved O₂
 - dissolved CO₂
 - ORP
 - turbidity
 - PNO₃

Efficient mixing Minimizes fouling Minimize culture crashes

- Minimize culture crashes
- Real-time graphing of sensor data
- Withdraw / insert sensors with ease

Sophisticated photobioreactor (PBR) to optimize algae culture growth.



MODEL RF-010

- 10L reactor capacity
- 110V power required
- Wi-Fi / ethernet connectivity
- LED grow lighting





- Touch screen
 - Full monitor / control functionality
 - Sensor data logging and secure cloud data storage
- Access / monitor / control data from your computer or smartphone device

"This system has in large measure enabled us to more than double the density and yield of spirulina from published values."

Design allows for ease of access to remove or install culture carboy Efficient mass gas transfer between head space and media, (CO2 in – O2 out)

Stan Pankratz

Model RF-010 Specifications

- 110-120V AC with 2m power cord
- On-board 12V power supply
- External on/off power switch
- Emergency power OFF switch
- External Cat5 ethernet connection
- On-board Wi-Fi connectivity
- Digital touch screen (8") to monitor / control PBR functions / real-time data graphing. Flush mounted but tilts to 45° for ease of viewing.
- Web-based app enables connecting to PBR to monitor /control / graph system functions in real-time from remote computer and smart phones.
- Collaborate with other researchers
- Secure, cloud-based data-logging
- 4 on-board controllable peristaltic pumps
- 10L cultivation capacity carboy
- 2 cooling fans
- Radiant heating element
- CO, control valve
- LED grow lighting

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Like No Other Photobioreactor (PBR)



Model: RF-010

Research 10L Photobioreactor

"Making the improbable possible!"