

A Practical Containment Technology

HY-TEK Bio photo bioreactors are a practical and cost-effective solution to the containment of algae during the mitigation process.

Made of laminated plastic and interwoven with Kevlar mesh, each photo bioreactor is 20 feet tall and four feet in diameter, containing about 1800 gallons of liquid.

Each 4' x 20' tank weighs approx. 65 lbs. but holds up to 7,000 lbs. force, with sonically welded seams tested beyond the wall material breaking forces.

The tanks can be detached for cleaning and service in place.

While originally designed to grow algae for mitigation of greenhouse gas emissions, the tanks are versatile, resilient and portable with a wide variety of applications.

They can store a multitude of materials - including water, grain, animal feed and other consumables, as well as chemicals, fuel, oil or pourable solids. Light and collapsible, they can be deployed rapidly to military or emergency sites globally and can be designed in other sizes to address specific applications.

The tanks are manufactured in the U.S. at a fraction of the cost of stainless steel tanks. So now, closed bioreactors are very inexpensive.



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