

# CASE STUDY



*Live algae can be pumped  
without harm by Disc Pump*

## The Challenge

Need a pump that can pump or recirculate algae water without harming marine life

## The Discflo Solution

Discflo's unique laminar flow and non-impingement pumping is ideal for this delicate task

## Pumping Marine Life and Algae

*Harbor Branch Oceanographic Inst, Florida*

The Harbor Branch Oceanographic Institution is using the Discflo pump technology to pump live algae. The Disc pump, used as part of the BioFence system from Applied Photosynthetics, is able to pump the live single-celled animals without destroying them. The pump has been operating since mid-October 1998 and says Stephen Gerber of Gerber Pumps, Discflo distributor in Florida, "pumps are running well."

Aquatic Ecosystems of Florida purchased a demo unit, a 1510 Disc pump with a smooth plastic Discpac, for testing by Applied Photosynthetics, the UK-based manufacturer of the Bio-Fence system. The Disc pump has a design capacity of 40 GPM at 14-15 ft TDH.

While some algae have a hard shell and can therefore be pumped with centrifugal pumps without destruction, other algae species have flagellae - soft protruding parts - that would be destroyed by regular centrifugal impellers.

The trial tested the Disc pump on 15 sensitive species of algae and found that it did not damage any of them. The BioFence system previously used an air-operated diaphragm pump which was high in maintenance, larger than a Disc pump and required a compressor.

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INTELLIGENT. SUSTAINABLE. SOLUTIONS

Call Discflo now to find out how our pumps can solve your problems.