

LifeWater Sciences WET Device For Aquaculture

LifeWater Sciences introduces an essential component for aquaculture. A unique system developed by our Japanese team which promotes a healthier environment for fish farms or other types of applications where water maintenance and balance is a crucial factor.

The LifeWater WET system sustains a more natural and cleaner environment ensuring a higher degree of health for fish and other water organisms. Benefits of The WET system include;
Less chemicals - Reduction of runtime for boilers/heaters in maintaining water temperature -
Improved growth rate and fish quality.



A Breakthrough in Water Technology

Fish Farming's Growing Dangers [TIME
By Ken Stier Wednesday, Sep. 19, 2007]
Close to 40% of the seafood we eat nowadays comes from aquaculture; the \$78 billion industry has grown 9% a year since 1975, making it the fastest-growing food group, and global demand has doubled since that time.

Protein decomposing bacteria decompose proteins left behind by fish food and fish waste converting it into amino acids. Then anaerobic bacteria further convert the amino acids into ammonia. The more ammonia in the water the worse an environment for the fish and fish farming in general as ammonia is harmful for the health of fish.

Aerobic bacteria which usually lives at the bottom of the water oxidizes ammonia and converts it into nitrite salts, meaning that the more aerobic bacteria that there is in the aquaculture farming pond the better environment the water becomes for fish or other organisms.

LifeWater Sciences International



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For Industrial/Commercial and even smaller applications

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LIFEWATER SCIENCE'S WATER ENHANCEMENT TECHNOLOGY (WET)

The LifeWater Sciences WET circulates water in the ponds utilizing an ejector which mixes the water with the air increasing oxygen.

At the same time the LWS WET component filled with our proprietary ceramic beads, circulates the water against the beads causing a fluidization effect which creates cationic properties adding positive charges to the particles while absorbing more oxygen which is negatively charged. Aerobic bacteria needs dissolved oxygen and the LWS WET system is able to increase the level of dissolved oxygen.



The ejector in the LWS WET system continuously supplies fresh water containing plenty of dissolved oxygen by re-circulating the water in the pond and increasing aerobic bacteria activity.

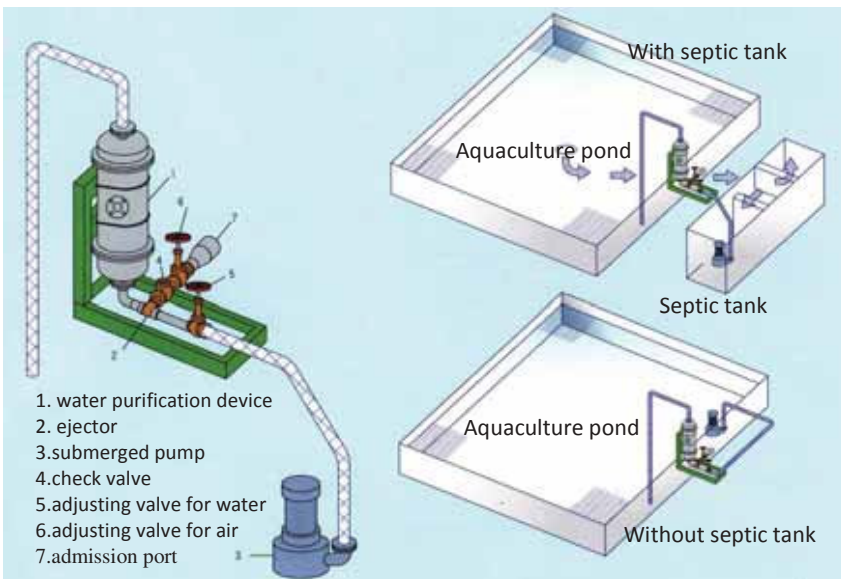
The LWS WET system keeps water in the aquaculture pond or smaller fish tanks filled with dissolved oxygen. This process keeps the fish healthier and growth rate is increased. As the bacteria further dissolves the nitrites into nitrates, the pH of the pond or tank is lessened and the ammonia level drops, promoting a more healthful environment for the fish.



In a typical water-wheel design oxygen is only being taken in on the surface of the water. The LWS WET system circulates water throughout



the entire pond/tank supplying an abundance of oxygen which penetrates to the bottom where most aerobic bacteria activity occurs keeping the pH level down.



With the LWS WET system our customers have healthier fish, naturally cleaner water and a lower amount of chemical usage.

In addition our customers will realize significant cost savings in reduction of boiler operation maintaining water temperature. By reducing the amount of sludge the LWS WET helps our customers save labor costs in cleaning and maintaining the ponds.



Life Just Got Better™