

**Pursanova introduces an essential component for aquaculture
A unit that helps fish be healthier - Keeps water naturally
cleaner - Requires less chemicals - Reduces runtime for
boilers/heaters in maintaining water temperature**

*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 the fish's waste and convert it into amino acids and then anaerobic bacteria further convert that amino acid into ammonia. The more ammonia in the water, the worse the condition of water for fish farming as ammonia is generally bad for the health of the fish.

Aerobic bacteria, which usually lives at the bottom of the water, oxidize ammonia and convert it into nitrite salts, meaning that the more aerobic bacteria that there is in the aquaculture farming pond, the better the condition in the water becomes for farming fish.

PURSAN  **VA**

A breakthrough system for aquaculture

For Industrial/Commercial and even smaller applications

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The Pursanova System circulates water in the ponds using an ejector, mixes it with the air, and adds oxygen.

At the same time the purifier component, filled with many small ceramic beads, forces the water against these beads which have a cationic property, adds a positive charge to the particles while absorbing more oxygen that is negatively charged. Aerobic bacteria need dissolved oxygen and the Pursanova System is able to increasing the level of dissolved oxygen.

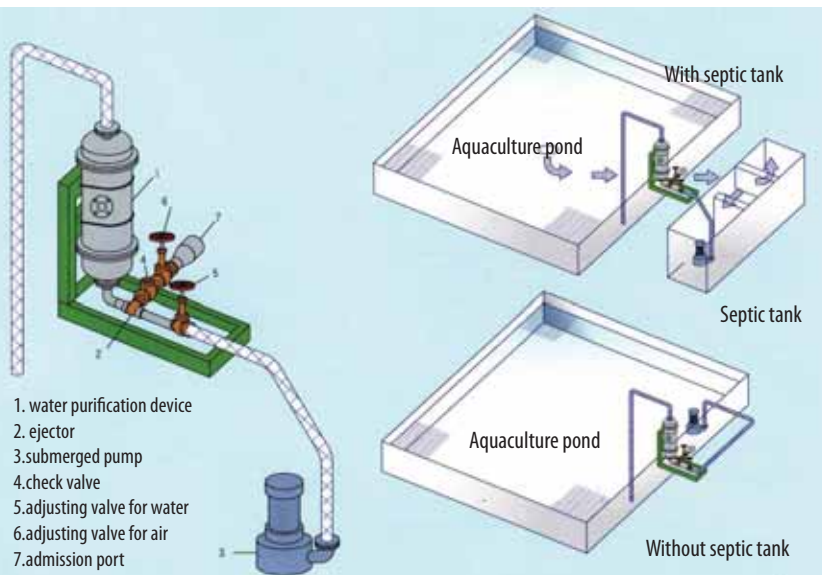
The ejector in the Pursanova System supplies fresh water containing plenty of dissolved oxygen by recirculating the water in the pond and increasing aerobic bacteria activities.

The Pursanova System keeps water in the aquaculture farming pond or smaller fish tanks filled with dissolved oxygen. This process makes fish healthier and in a short time larger in size. As the bacteria further dissolve the nitrites into nitrates, the pH of the pond or tank is lessened, 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. Pursanova System circulates water

throughout the entire pond/tank and plenty of oxygen penetrates to the bottom where the most aerobic bacteria activity occurs, again keeping the pH level down.



With the Pursanova System our customers have healthier fish, naturally cleaner water, and less chemicals. In addition, they realize significant cost savings in boiler operation maintain water temperature. By reducing the amount of sludge Pursanova helps customers save on labor needed to clean and maintain the ponds.

