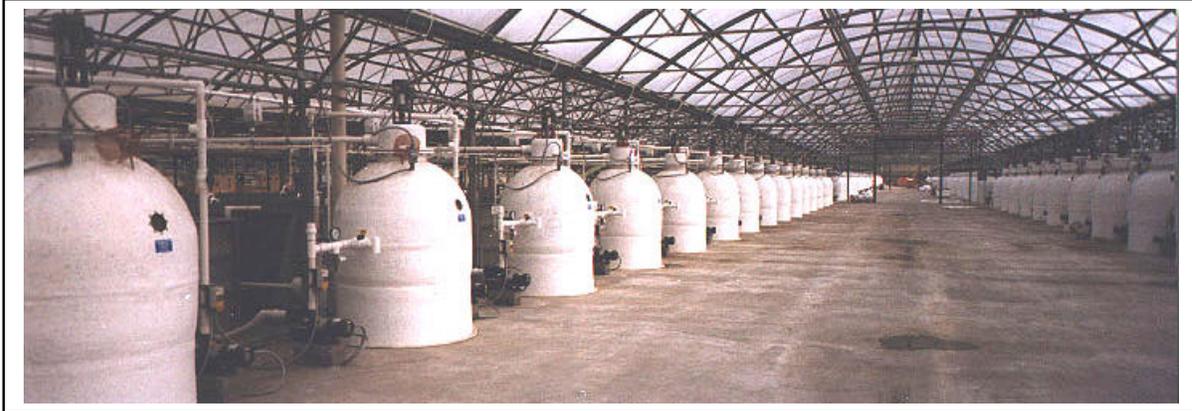




**AQUACULTURE
RAS system**

Tel: 450-378-6825 Fax: 450-777-0264



AQUACULTURE is a growth industry striving to satisfy a growing market for food fish. It currently is one of the fastest growing sectors of agriculture in the United States. Farm-reared fresh fish is increasing in popularity and profitability. Catfish, trout, striped bas, oysters, clams and other aquatic species are fast becoming the new "cash crops" of the 1990's.

Growing public demand for a healthy tasty and affordable food is stimulating the "boom" in this industry. The decline in wild fish populations as a result of overharvest and water pollution has promoted the culture of farm-fresh that are grown in contaminant-free waters in indoor tank systems.

Aquafoam Commercial Multi-tube Foam Fractionator

Protein Skimmer configuration where O3 will be injected by means of a venturi



Commercial Foam Fractionators



Specifications

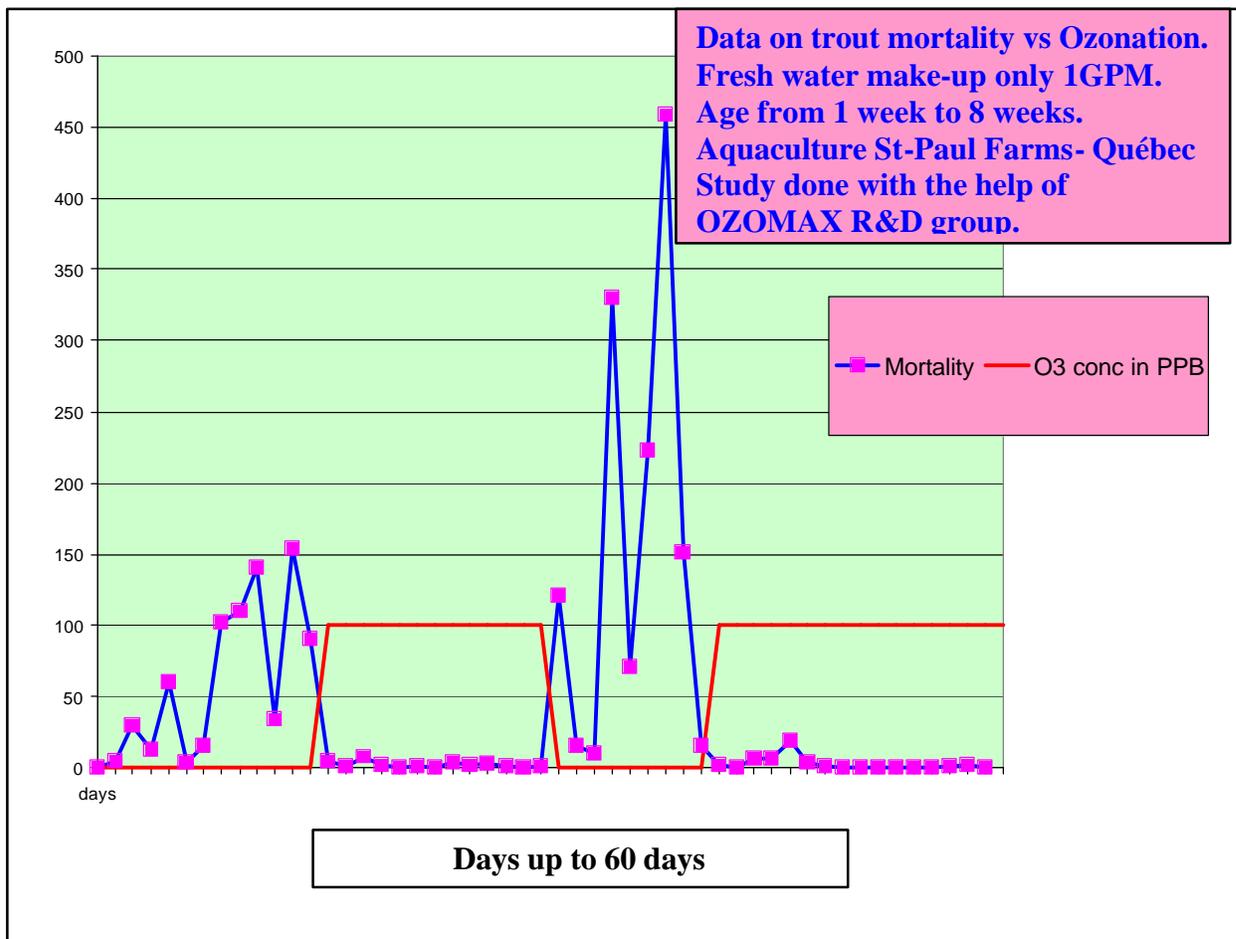
Model #	Description	Inlet/Outlet	Water Flow @ 10 psi	Air Flow @ 10 psi	Max System	Dimensions Dia x Height
01107	Aquafoam #3	1' x 1.5'	8 GPM	25cfh	700 gal	7' x 70"
COM3006	Aquafoam Commercial 6	1' x 1.5'	11 GPM	30cfh	2000 gal	7' x 94"
COM3008	Aquafoam Commercial 8	1.5' x 1.5'	22 GPM	70cfh	5000 gal	9' x 96"
COM3010	Aquafoam Commercial 10	1.5' x 2'	34 GPM	70cfh	10000 gal	11' x 120"
COM3012	Aquafoam Commercial 12	2' x 2'	55 GPM	81cfh	20000 gal	13' x 120"
COM3012M	Commercial Multi-Tube 12	2' x 2'	55 GPM	81cfh	20000 gal	13' x 120"
COM3014M	Commercial Multi-Tube 14	2' x 2'	61 GPM	86cfh	30000 gal	15' x 120"
COM3018	Commercial Poly 18	1.5' x 2'	26 GPM	90cfh	10000 gal	18' x 84"
COM3036	Commercial Poly 36 flow through 300 GPM @ 60 sec Contact time / 4' inlet - 6' outlet	36" x 130"				
COM3046	Commercial Poly 46 flow through 600 GPM @ 60 sec Contact time / 6' inlet - 8' outlet	46" x 170"				

COM3036 & COM3046 include venturi manifold pump

Recirculation aquaculture systems (RAS) represent a new and unique way to farm fish. Instead of the traditional method of growing fish outdoors in open ponds and raceways, this system rears fish at high densities, in indoor tanks with a "controlled" environment. Recirculating systems filter and clean the water for recycling back through fish culture tanks.

New water is added to the tanks only to make up for splash out and evaporation and for that used to flush out waste materials. In contrast, many raceway systems used to grow trout are termed "open" or "flow through" systems because all the water makes only one pass through the tank and then is discarded.

Fish grown in RAS must be supplied with all the conditions necessary to remain healthy and grow. They need a continuous supply of clean water at a temperature and dissolved oxygen content that is optimum for growth. OZOMAX filtering technology using AOP (advanced oxidation process) will provide good quality water by removing or detoxifying harmful waste products and uneaten feed. The fish must be fed a nutritionally-complete feed on a daily basis to encourage fast growth and high survival



OZONE BENEFITS AQUACULTURE

Through ozonation, soils, feed proteins, Ammonia, Urea and other fish wastes are chemically oxidized into oxides and by-products which are removed from top of reactor as a foam . The reactors which is referred to as protein skimmer which can purchased from **any reputable vendor** will be equipped with Ozomax high performance ozone generator as well as catalyst which will be introduced inside either existing or new skimmers to achieve the highest level of waste removals which will render water better than new . This process will provide very oxygenated water with no pathogens with benefits which can summarized below:

- **Reduced chemical expense.** Ozone substantially reduces /eliminate the amount of chemicals such H₂O₂ , algacides & antibiotics and other commonly used chemicals in aquaculture.
- **Reduce fresh water demand .** Only make-up water will be needed.
- **Decreased energy consumption.** Less aeration will be needed as Ozonated water enrich water with O₂
- **Superior sanitization capabilities.** Ozone has gained widespread use in purifying drinking water. It has replaced harsh chlorine treatments because its remarkable oxidizing power has demonstrated the ability to destroy bacteria up to 3,000 times faster than chlorine.

FACTS ON OZONE

- **Disinfects 3000 times faster than chlorine**
- **Powerful biocidal: 99,5-99,7% killing rate of bacteria and viruses (150% more effective than chlorine)**
- **Eliminates odours**
- **Unlike chlorine, ozone does not generate toxic by-products**
- **No THM formation & no fish poisoning occurs**
- **Chemical-free technology + complete degradation of organic waste ➤ positive environmental impact**

OZOMAX LTD

<http://www.ozomax.com>

**OZONE TECHNOLOGY THE WORLD CAN
AFFORD**

Last Updated: December 7, 2004, 11:05 am