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FULLY INTEGRATED CLOSED-SYSTEMS

PROCESS AQUATICS INTERNATIONAL, LLC. (PAI) introduces recirculating aquaculture systems that utilize cost-effective, state-of-the-art technologies. The results of over 20 years of research, development and experience have been combined into one of the most successful aquaculture systems on the market today. Fully integrated facilities with hatchery, nursery and grow-out systems can be scaled for the production of 40,000 pounds to over 1 million pounds of finfish annually. All of our systems use high-density, intensive-feeding techniques to yield optimum growth rates and high production. From system design to operational start-up, PAI offers the full range of engineering services and aquaculture equipment manufacturing.

Flexible Modular Design
Because our systems are built utilizing a modular, flexible design; PAI can tailor your aquaculture system to suit specific environments, fish species or budget.

Environment...
- Saltwater or Fresh
- Retrofit Existing Building
- New Facilities
- Cold, Warm or Hot Climate
- Small or Industrial Scale

Fish Species...
- Tilapia
- Striped Bass
- Perch
- Carp
- Eel
- Basically any finfish

Equipment Modules...
- Hatchery
- Nursery
- Grow Out
- Fish Processing
- Hydroponics/Greenhouse
- Automatic Feeding
- Oxygen & Ozone Generation
- Backup Power
- Biofiltration
- Laboratory

From Small Scale... To Industrial Scale...
Key Features:

**Indoor, Closed Recirculating...**

Our systems are designed for indoor year-round operation in virtually any climate. By using closed recirculating technology, the need for large amounts of land and water are practically eliminated. The water in our systems is recirculated, treated and reused to yield healthy, pollution-free fish product.

**Modular Design...**

Equipment Skids are packaged as compact, self-contained modular units for fast, easy installation and cost-effective start-up. All of our equipment modules are pretested and calibrated prior to delivery.

**Intensive Production...**

PAI aquaculture systems are designed to grow the largest volume of fish possible in a fraction of the space typically required for conventional pond-style fish farms. Most of the problems associated with outdoor aquaculture systems, (i.e. predators, weather, pollution, etc.) are eliminated.

**Optimized Growth Rate...**

By controlling the water quality, temperature, lighting, climate, feeding rates, etc. fish are grown at accelerated rates increasing the overall yearly production. Our patented techniques for fish manipulation and harvesting have taken aquaculture to a new level of science.
Fully Automated State-of-the-Art Centralized Monitoring ...

Centralized real-time monitoring & control allows a single operator to manage the entire aquaculture system...from a single computer! Changing parameters, immediate alarm notification, fully automatic operation, etc. are all accomplished through detailed animated graphical interfaces. Both local and remote monitoring capabilities... Labor typically used for constant monitoring, feeding and adjustment are all but eliminated. Precise control of oxygen, ozone, pH, feeding, heating, etc. cuts down waste to dramatically reduce operating costs. You aquaculture system practically runs on “Autopilot” 24 hours a day, seven days a week!

Automated Monitoring & Control

- Ozone Level Control
- Water Temperature
- pH Adjustment
- Tank Water Levels
- Makeup Water
- Feeding
- Lighting Control

- CO2 Removal
- Dissolved Oxygen Level
- Greenhouse Climate Control
- Waste Removal
- Water Filtration
- Ammonia Removal
- Biofiltration
Hatchery Systems  
Nursery Systems  
Growout Systems

Automated Feeding Systems  
Oxygen & Ozone Generators

Hydroponics & Greenhouse  
Laboratory Setup

Fish Processing Facilities  
Backup Power Supplies

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Process Aquatics International offers an integrated approach to aquaculture to maximize profits in the most cost-effective manner. Nothing is wasted. Typical by-product and waste disposal issues are turned into profits for a faster return on investment.

THE TOTAL SOLUTION