MahuWévi: Oxygenation device for aquaculture

MahuWévi, the solution for aquaculture that sustainably feeds

MahuWévi is an advanced oxygenation system for aquaculture ponds that uses micro-injections of pure oxygen to maintain high dissolved oxygen levels. It operates through short, repeated oxygen cycles, improving water quality and fish health. Available in Mini, Pro, and ProMax models, it offers both standard and customized options.

This technology is pre-validated.

9·7 Scaling readiness: idea maturity: 9/9; level of use: 7/9

Cost: $$$ **250 USD**

Mini model

10 years	**500 USD**	**667 USD**	**834 USD**
Lifespan	Pro Customized	ProMax Simple	ProMax Customized

Problem

- High energy consumption of traditional oxygenation devices, increasing production costs and reducing profitability.
- Large water requirements in conventional aquaculture systems, raising resource consumption and costs.
- Significant nitrogen and phosphorus discharges, contributing to pollution of local ecosystems.
- Limited access to technology for young and non-professional users due to complexity of existing systems.

Solution

- Reduced oxygenation costs: Lowers energy use while maintaining high oxygen levels.
- Lower water requirements: Cuts fresh water usage by 50%, ideal for water-scarce areas.
- Decreased pollutant discharge: Produces less waste, which can be used as fertilizer.
- Ease of use: Simple for beginners and small-scale farmers, no technical skills needed.
- Repurposing water: Recycled water supports crop cultivation, enhancing sustainability.

Key points to design your business plan

MahuWévi offers a sustainable oxygenation solution for fish farming, with key benefits for both resellers and fish growers:

- **Resellers**: Source from trusted manufacturers, ensure efficient logistics, and offer various models (Mini, Pro, ProMax) for different farm sizes. Price based on model and quality, factoring in transportation costs.
- **Fish Growers**: Provides stable oxygen levels at a lower cost, reduces energy use, and boosts profitability. Choose the appropriate model based on farm size and needs. While initial costs are higher, long-term savings on water and energy make it cost-effective.
- **Additional Considerations**: Easy to use with minimal training needed, reduces nitrogen and phosphorus discharge, supporting both profitability and environmental sustainability.

Gender assessment 4

Climate impact 7

Gold's Farmers
HOUNSOU Tadagbé N. Eder

Commodities

Aquaculture

Sustainable Development Goals

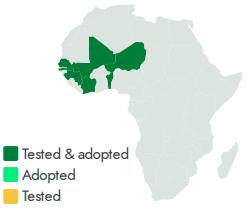
Categories

Production, Equipment, Aquaculture Systems

Best used with

- Cage Systems for Fish farming ›
- All Male Tilapia Fingerlings with Greater Yield and Uniformity ›
- Fast Growing and Hybrid African Catfish ›

Tested/adopted in



Where it can be used

This technology can be used in the colored agro-ecological zones.