



# Flow-Through and Recirculatory Water Systems for Fish Tanks

Enhance fish farming efficiency with sustainable water systems, reducing resource wastage and ensuring robust fish growth.

Recirculatory Aquaculture Systems involve advanced setups for fish farming in tanks. They maintain essential conditions like oxygen levels and water temperature. Water is continuously filtered, ensuring a clean and healthy environment for the fish.





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Technology from **ProPAS** 

Commodities

Fish

Sustainable Development Goals









Categories

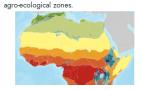
Production, Equipment, Aquaculture Systems

### Best used with

- All Male Tilapia Fingerlings with Greater Yield and <u>Uniformity</u>>
- Fast Growing and Hybrid African Catfish >



Where it can be used This technology can be used in the colored



This technology is **TAAT1 validated** 

7.8

Gender assessment



Climate impact



## **Problem**

- Challenges in maintaining water quality and oxygen levels for successful fish farming
- Need for effective waste management and control of pollutants in aquaculture systems
- Dependence on reliable water sources and electricity infrastructure for flow-through systems
- Cost and complexity of installing recirculatory systems compared to conventional methods

### Solution

- Efficient use of limited land and water resources for higher density fish culture
- Maintenance of peak water quality conditions despite dense stocking rates
- · Continuous water filtration and purification, leading to a healthier environment for fish
- · Conversion of waste products into non-toxic substances for potential use in crop cultivation
- · Flexibility in location choice based on water availability and electricity access

Cost: \$\$\$ 22000 USD

Pumping and piping for recirculation system (130 m3)

44000 usp

1.5-5 USD



Recirculation System (130 m3) treatment

Settling of square meter pond construction

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