

BioFishency SPBM₃₀ Product Description and Specifications

General

The BioFishency Single Pass Biofilter (SPB) system is designed to make highly-effective water treatment accessible and appropriate for widespread use in land-based aquaculture. In the plug-and-play, all-in-one water treatment system, the water flows from the top down, filtering particles, removing CO₂ and ammonia, and oxygenating the water before being recycled back into the pond.



Water Treatment Stages

- Mechanical filtration
- CO₂ removal
- Atmospheric O₂ enrichment
- TAN removal with proprietary substrate

Technical Specifications

	Value	Unit	Remarks
Feed	30-40	Kg/day	45% protein 9% Fat
Water Consumption	2	m ³	m ³ water/kg feed
Energy	2.5-3	Kwh	
Solid removal	80	Micron	Mechanical filter of an 80 micron screen mesh with a back wash to avoid clogging
CO ₂ stripping	60	mg/l	CO ₂ – inlet 55-65 mg/l; outlet 5-8 mg/l
O ₂			O ₂ - inlet 65%-70% and outlet 90%-100%

System Components

	Amount	unit	Remarks
Polyethylene tank	1	1	1.2m diameter X 3m height
BioMedia	1	m ³	
Water pump	1	50m ³ /h	Recirculation pump
Air blower	1	500m ³ /h	
Mechanical filter	1	80 micron screen net with back wash	
Buster Pump	1	1.7m ³ /h	back wash pump for the mechanical filter
Electrical control panel	1	Complete	

Installation

The system is a plug&play unit, specific installation instruction will be given.

To be supplied and prepared by the customer at the location:

- **Electricity**
 - system requirements are 2.5W/h per unit
 - 3 phase connection
 - Cables and wiring as needed
- **Water**
 - System requirements are 2m³/h per unit.
- **Pipes**
 - Water pipes from the pump to the BioFishency Unit
 - Water pipes from the BioFishency Unit to fish tanks
 - Availability of drainage and pipes connection

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