



# BioFishency SPB™

## Single-pass biofiltering systems

Today's aquaculture farms have a unique opportunity to benefit from Recirculated Aquaculture Systems (RAS) water treatment solutions to grow healthier fish, intensify growth density, increase survival rate – and realize high ROI. A highly-efficient Full Water Treatment (FWT) system that outpowers traditional RAS, BioFishency SPB™ (Single-Pass Biofilter), is an all-in-one, plug and play biological filter for comprehensive ammonia removal.

Ideal for sea and fresh water species, BioFishency SPB is designed for existing and new fish growing developments with water restrictions, low water quality, or with limited infrastructure and resources. Based on a decade of market-proven success, BioFishency SPB is exceedingly more reliable and more efficient than standard biofiltering systems, which demand long build time, incur high operational costs, and are less effective in cold water. A viable entry-level system, with low costs, maintenance, and energy consumption, BioFishency SPB is suitable for small to mid-size RAS projects. The results? Increased productivity, a greater yield of premium quality fish, and minimal investment that leads to high ROI.

Easy to install and operate, with no technical skills required, BioFishency SPB converts a flow through set up into a RAS system, to support ammonia, CO<sub>2</sub> and solids removal, while enriching O<sub>2</sub> throughout the process. Committed to sustainability, particularly in emerging markets, where regulations cite reduced water use and ammonia discharge in water systems as critical, BioFishency SPB uses *less than 20% of the water required*, delivering a higher quality of discharged, recyclable water, reducing overall water consumption, and yielding a small footprint.

### Features & Benefits

- Highly-efficient Full Water Treatment (FWT) system
- Convenient, all-in-one, plug and play biological filter
- Comprehensive ammonia, CO<sub>2</sub>, and solids removal
- Ideal for use with sea and fresh hot water species
- Designed for existing/new RAS developments
- Low water discharge
- Low-cost/low-maintenance system
- Uses less than 20% of the water required



## How It Works

An easy-to-use, plug and play system, BioFishency SPB strips CO<sub>2</sub> from the water, and enriches it with atmospheric O<sub>2</sub>. A dedicated chamber inside the system converts ammonia to nitrate, while a mechanical filter efficiently removes solids waste, enabling water to flow directly into a pond, without the need for additional chemicals. The process continues with Total Ammonia Nitrogen (TAN) removal via an automated backwash, using a proprietary substrate with a high nitrification rate.



## BioFishency

Your trusted partner in redefining sustainable and profitable aquaculture

As with all BioFishency projects, BioFishency SPB goes far beyond standard system installation. From needs analysis, planning and design, to implementation, BioFishency provides on-site, expert-led training, post-sales customer support and service, and recommendations on the best species and how to grow them, by implementing the 'right' growth protocols. *BioFishency is far more than RAS – it's a new era in RAS water treatment.*

