WWW.ECKLIEN4RAS.COM

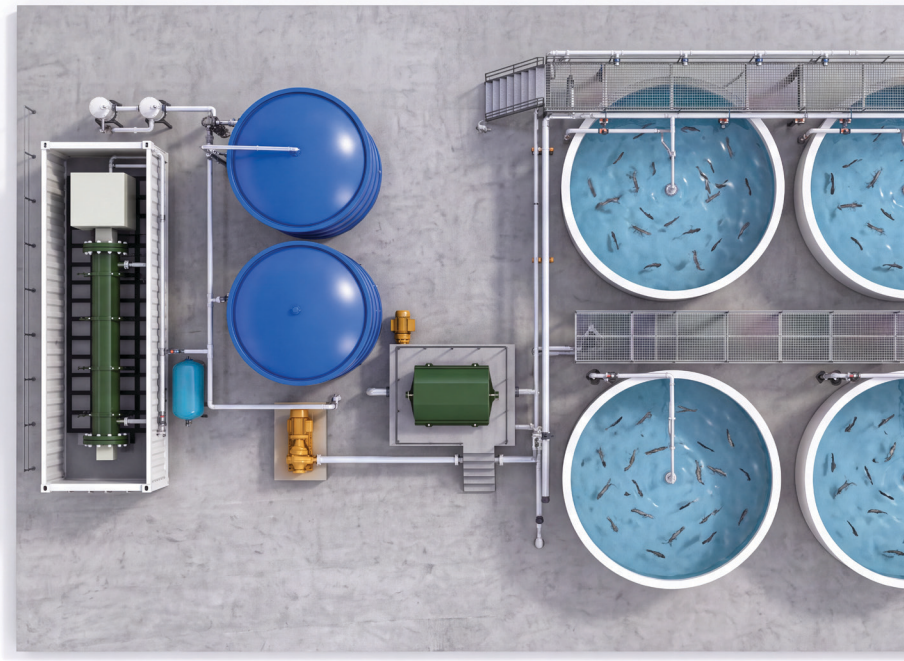


MADE IN INDIA
BUILT FOR THE WORLD

RECIRCULATING
AQUACULTURE SYSTEM

EC4RAS

EASE OF OPERATION WITH EC4RAS





Modern marine RAS is built around efficient water reuse and precise water-quality control. But conventional biofilters remain one of the biggest pain points, adding complexity to RAS operation and limiting system efficiency.

EC4RAS replaces the conventional biofilter with a single electrochemical treatment system, engineered for cleaner, smarter and more sustainable aquaculture.

With single-pass treatment, EC4RAS addresses solids, ammonia, pathogens and off-flavours, while delivering N_2O-free operation and IoT-enabled real-time monitoring and control.

One integrated system. Multiple treatment functions. A simpler approach to modern marine RAS.

EC4RAS

RECIRCULATING

AQUACULTURE SYSTEM



Ph: +91 82486 00032 info@ecklien4ras.com www.ecklien4ras.com

Designed around the needs of Aquaculture

- Integrated, Single-Pass Treatment
- N_2O-Free Operation
- Pathogen and Off-Flavour Management
- Water Reuse with Zero-Discharge Design
- IoT-Enabled Real-Time Monitoring & Control
- Integrated Safety & Interlocking Controls
- Modular, Scalable & Relocatable Design
- Cost Parity with Biofilter-Based RAS
- Smaller Land, Water & Carbon Footprint

Built for multiple applications



HATCHERIES
(Shrimp & Fish)



GROW-OUT
(Shrimp & Fish)



CRAB RAS



BACKYARD RAS



MOBILE RAS



Technical Specifications

Parameters	Unit	Shrimp	Fish
Total Production	ton/year	100	150
Water Temperature	°C	29 - 30	14 - 30
Salinity	ppt	20 - 25	5 - 35
Max. density	kg/m³	upto 15	upto 75

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Suitable for Various Species

TROPICAL SPECIES


Shrimp


Grouper


Baramundi


Crab


Cobia


Pearl Spot


Pompano

TEMPERATE SPECIES


Salmon


Gilthead Seabream


European Seabass


Red Drum


Arctic Char


Amberjack


Sturgeon


Turbot

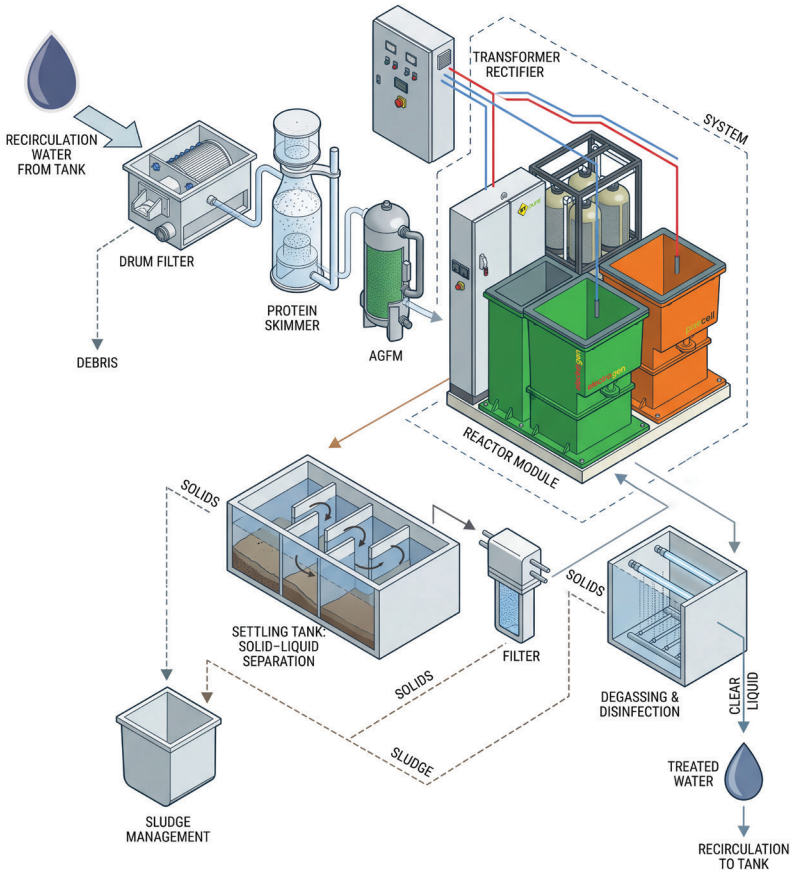
Available for purchase • As a retrofit to existing RAS • On rental

Biofilter RAS vs EC4RAS

	Process	Control
Biofilter RAS	Biological, multi-stage	Unstable
EC4RAS	Electrochemical, single stage	PLE

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EC4RAS - Process



Production	Yield vs Pond	Plug & Play
Fluctuating	10x	Not Possible
Constant and Stable	15x	Possible

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