ELOXIRAS®

LOGISTIC Series

One-step

High efficacy

Easy to operate

The technology

ELOXIRAS® is an innovative process for the **treatment and reutilization of marine and brackish water,** developed to improve productivity and reduce the environmental impact of Recirculating Aquaculture Systems (**RAS**).

Some of its main advantages are:

- **One step –** Eliminating pollutants such as TAN, nitrite, and organic matter, while disinfecting.
- **High efficacy –** Enhanced removal rate of contaminants, increasing the capacity and productivity of the RAS.
- **Easy to operate –** Instant operation, without start-up or adapting periods (typical from biological systems).
- **Reduced environmental impact –** Due to lower requirement of water exchange with the surrounding media.
- **Compact design -** Small footprint and no civil work required, maximizing its integration possibilities.
- **Energy efficiency –** Adapting the intensity of the treatment to the fluctuating generation of pollutants.

ELOXIRAS ® **LOGISTIC Series** has been designed for the treatment and reuse of water during live fish **transport in trucks or wellboats** from hatcheries to grow-out farms, offering greater autonomy for longer distances.

Functionalities

	Truck	Wellboat
Pre-treatment	●	●
Feed pump	●	Optional
Reactor	●	●
Rectifier	●	●
Reactor cleaning system	●	●
Post-treatment	●	●
Electrical cabinet with PLC	●	●
Manual valves	●	●
Automatic valves	-	●
Compressed air system	-	●
ORP monitoring	Optional	Optional
pH monitoring	Optional	Optional
TAN monitoring	Optional	Optional
Total chlorine monitoring	Optional	●
Temperature control system	Optional	Optional
Oxygenation system	Optional	Optional
Remote supervision and operation	●	●
Moisture and splash protection	Optional	Optional

Reduced environmental impact

Compact design

Energy efficiency

Standard models

	LOGISTIC-T-100	LOGISTIC-T-400	LOGISTIC-W-750	LOGISTIC-W-1500	LOGISTIC-W-3000
Reactor	1 x ELOXrc2	1 x ELOXrc15	2 x ELOXrc38	2 x ELOXrc75	4 x ELOXrc75
Biomass (kg)	2,500	10,000	97,500	195,000	390,000
Water volume (m^3)	20 – 25	20 – 25	750	1,500	3,000
Flowrate (m^3/h)	1	5	50	100	200
TAN removal (g TAN/day)	79	631	2,628	5,256	10,512
Disinfection	> 3 log	> 3 log	> 3 log	> 3 log	> 3 log
Power consumption (kW)	1.32	2.61	10.01	13.95	27.90
Water exchange (L/kg feed)	0	0	0	0	0

NOTE: Values estimated considering water with a salinity of 35 ppt.

For more information: comercial@apriasystems.es

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ELOXIRAS® LOGISTIC Series

LOGISTIC-T-400

Increasing the live fish during transport

ELOXIRAS® LOGISTIC-T-400 contributes to increase the live fish transport range, as well as to improve the culture water quality. High TAN removal -with no significant nitrate accumulation- and disinfection efficacies are achieved.

TAN removal rate	631 g TAN/day (> 90% per pass)
Disinfection capacity	> 3 log
Water exchange rate	0 L
Max. power consumption	2.61 kW

NOTE: Values estimated considering water with a salinity of 35 ppt.

Tank volume

20 - 25 m³

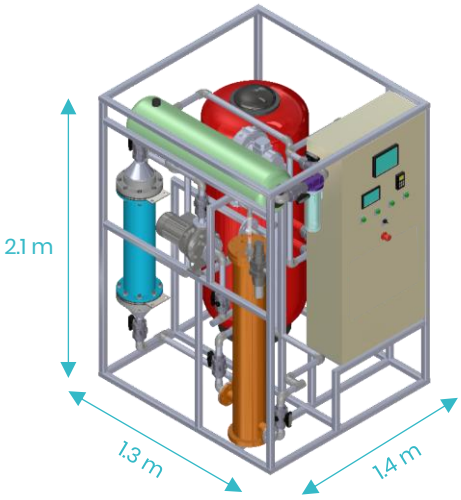
Max. biomass capacity

10 ton

Flowrate

5 m³/h

Dimensions



Estimated footprint

1.8 m²

Estimated no load weight

750 kg

Estimated load weight

1,300 kg

Operation & maintenance costs

Energy consumption	68%
Post-treatment regeneration	2%
Reactor cleaning system	-
Reactor maintenance*	30%

NOTES:

- Values estimated considering water with a salinity of 35 ppt.
- Values based on a continuous use.

* Value based on a lifetime of 2 years

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ELOXIRAS® LOGISTIC Series

LOGISTIC-W-1500

Increasing the live fish during transport

ELOXIRAS® LOGISTIC-W-1500 contributes to increase the live fish transport range, as well as to improve the culture water quality. . High TAN removal -with no significant nitrate accumulation- and disinfection efficacies are achieved.

TAN removal rate	5,256 g TAN/day (> 90% per pass)
Disinfection capacity	> 3 log
Water exchange rate	0 L
Max. power consumption	13.95 kW

NOTE: Values estimated considering water with a salinity of 35 ppt.

Tank volume

1,500 m³

Max. biomass capacity

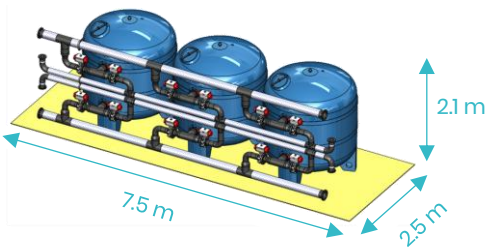
195 ton

Flowrate

100 m³/h

Dimensions and weight

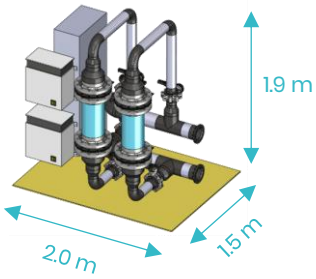
Pre-treatment stage



Footprint: 19 m²

Weight: 17,200 kg

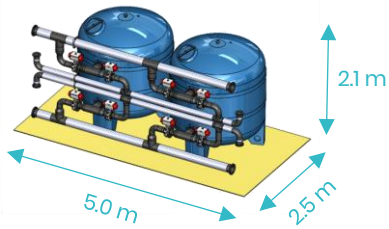
Main treatment stage



Footprint: 3 m²

Weight: 1,400 kg

Post-treatment stage



Footprint: 10 m²

Weight: 14,200 kg

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