

Recirculation Aquaculture Systems



AquaBioTech Group is an international aquaculture and fisheries consulting company strategically located in the Mediterranean, on the island of Malta. It operates globally, with clients and projects in over fifty-five countries. Staff are recruited from across the globe, enabling communication with clients in thirteen languages.

AquaBioTech Group undertakes a variety of aquaculture, fisheries, marine surveying, aquatic environmental, financial, and technical projects, performed with its selected, worldwide partners.

AquaBioTech Group has an established, global reputation in designing and installing recirculation aquaculture systems (RAS).

RECIRCULATION AQUACULTURE SYSTEMS (RAS)

Recirculation system development within aquaculture has entered into a new chapter and **AquaBioTech Group** has been at the forefront of this technology for many years.

AquaBioTech Group has developed a number of highly efficient and cost effective recirculation aquaculture systems (RAS) for hatchery, broodstock, aquatic research and on-growing operations. Each system is customised according to the species and production level and are proven technologies in the field. **AquaBioTech Group** also has its own proprietary RAS designs for a variety of species that cover those of major commercial importance. The company is constantly perfecting the overall performance of its designs and technology at its demonstration and R&D facility in Malta. The systems we offer are the result of many years of research and client feedback. Our online monitoring system allows our staff to technically support clients' projects all over the world.



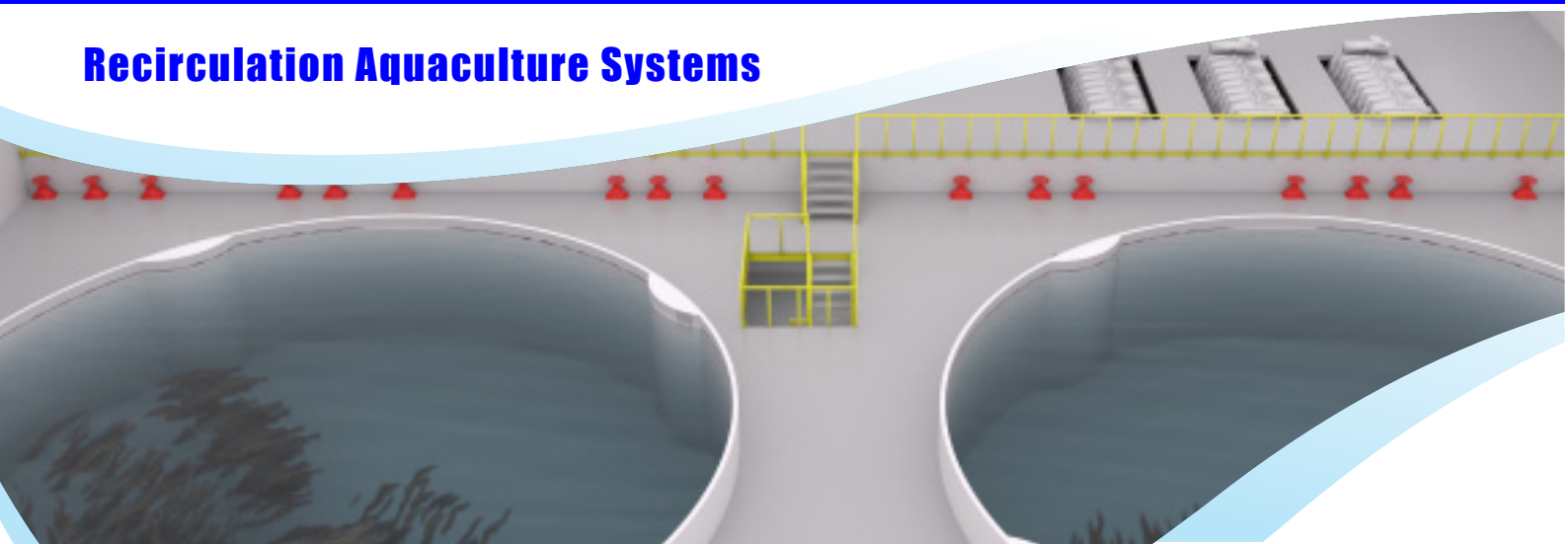
ENGINEERING

Our resident team of engineers and architects can tailor projects to every requirement and support the client from start to finish on all technical and biological aspects including;

- Feasibility studies and project budgeting
- Conceptual planning using 3D CAD software
- Bill of Quantities (construction and technology selection)
- Full RAS system design, including bioplanning
- Civil works design; including structural, electrical & HVAC
- Installation including third-party Quality Control
- Commissioning and technical training
- Online technical and biological support



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FILTRATION SYSTEMS

As a result of our own research and development we have developed some of the most advanced and cost effective filtration solutions available on the market today. Filtration modules that can process from 2m³ up to 10,000m³ of water per hour are available, as well as custom-designed solutions that are specific for each client's requirements and budget.

HATCHERY TECHNOLOGY

Using the very latest technology **AquaBioTech Group**'s research facilities host a number of recirculation systems that are able to function as a fully operational hatchery. Studies using our 'in-house' capabilities have developed new techniques for improving hatchery production, efficiency and knowledge. The facility also provides our staff with valuable practical knowledge of how systems perform, therefore helping to consult and advise our clients and provide continuous technical and operational support.

GROW-OUT TECHNOLOGY

Our large scale recirculation systems are designed to produce optimal performance in terms of production, energy consumption and reduce water discharge. Complete systems are designed with biosecurity as a priority and include integrated, online monitoring systems to enable our staff to provide remote support and advice to the client, long after the onsite training has been completed. The technology retains fundamental design aspects that we have found to be successful and adaptable to clients of varying requirements and to species specific requirements.

3D COMPUTER AIDED DESIGN

All projects undertaken are planned using the very latest CAD software and 3D modelling tools. This technology allows for a complete visualisation of the proposed project and integration of all aspects of the construction.

PROJECT MANAGEMENT & OVERSIGHT

Entire projects are managed by our team of staff including coordination of works with various contractors. After completion we can provide support and staff to begin the production of the chosen species.

AquaBioTech Group offers other services including comprehensive project feasibility studies, investment assistance packages, technical auditing, aquaculture insurance, environmental guidelines and Environmental Impact Assessment (EIA).

