Automated High Density Rotifer Systems

MAKING ROTIFERS EASY

Aquaculture

HDRS

Varicon Aqua has more than 20 years' experience providing high quality engineering and consumable products into the algal biotechnology and aquaculture sector. This experience has led to the development of solutions appropriate for both **laboratory and industrial** settings.

Our High Density Rotifer Systems (**HDRS**) are fully automated using our own modular control systems. They are designed with our extensive knowledge and experience in commercial algae production where precision is paramount.

The High Density Rotifer Systems are easily adapted, customised and sized to fit both laboratory scale and full commercial hatchery scale production.

The Varicon Aqua automated continuous rotifer system for marine hatcheries are made with industrial grade components and has been designed to function optimally by using concentrated algae pastes as the primary feed substrate. The system can operate with combinations of feed substrate including formulated diets, however the use of higher percentages of concentrated algae will prolong the periods of trouble-free, continuous operation with lower labour input.

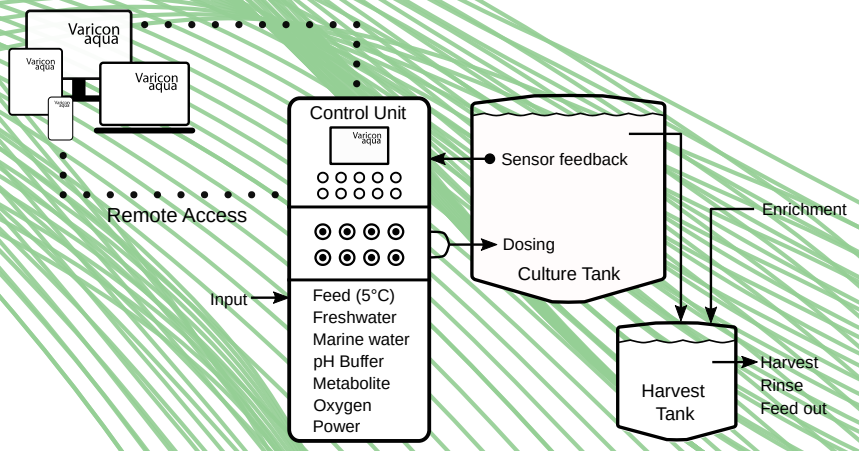


Description.

The **HDRS** control the feeding, temperature, oxygen, metabolite and pH in order to optimise the culture conditions for the rotifers using feedback systems with sensors, dosing pumps and flow meters. The produced rotifers are harvested from the culture tank through an overflow system into a receiver tank. From here the rotifers can be enriched as required with minimal handling and without disturbing the main culture.

Automated Continuous Remote

HDRS





Remote management.

The Varicon Aqua HDRS utilises an inbuilt data acquisition and control package with HMI for onsite and offsite management which enables, anywhere, anytime remote access via laptop, desktop, tablet and smartphone.

Performance.

The Varicon Aqua rotifer systems are designed to operate with turnover levels of up to 40% per day with an optimal rotifer density of 3,000 rotifer/ml. This allows for a daily production of ca. 1.2 billion rotifers per day from a single 1 m^3 culture tank. The highly flexible design allows for expansion of the production level via additional control modules, sensors, electrodes, control devices, culture tank sizes and numbers.

Options.

- Control system expansion
- Tank size
- Tank number
- Advanced harvest monitoring
- Separate enrichment system
- Retrofit to existing facilities*
- Flexible system configuration

* Depends on the facility

MAKING ROTIFERS EASY

Our guarantee.

As with all Varicon Aqua systems we pride ourselves on the high level of after sales support we provide to our clients whether it's a systems issue or a technical production question,

We are highly approachable.

"Come talk to us about your needs!"

Contact: variconaqua@variconaqua.com - www.variconaqua.com

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