Automated High Density Rotifer Systems

MAKING ROTIFERS EASY

Small Scale

Compact 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 **compact** automated continuous rotifer system has been designed with industrial grade components to ensure the highest quality build. The **HDRS** functions optimally using concentrated algae pastes as the primary feed substrate but can operate with a combination of feed substrates including formulated diets. This system is perfectly sized for the production of rotifers for feeding for instance **Zebrafish** in a research setting or for **product testing and development** of rotifer feed products. The system can be monitored remotely from your phone, tablet, or computer.

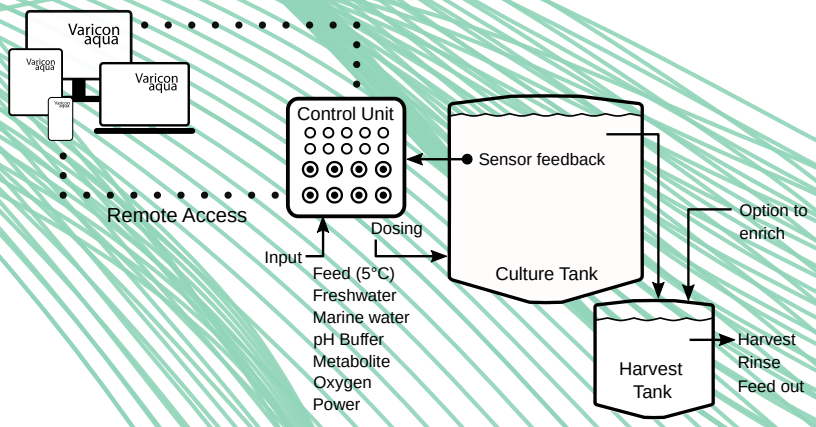


Automated Continuous Remote

HDRS

Description.

The HDRS control all the primary input like feeding, temperature, oxygen, metabolite and pH in order to optimise the culture conditions for the rotifers. This is done using feedback systems with high quality sensors, dosing pumps and flow meters. The produced rotifers leave the culture tank through an overflow system into a receiver tank. From here the rotifers can be enriched for feeding as required with minimal handling and without disturbing the main culture.



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. 120 million rotifers per day from a single 100 Litre 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

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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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