

oceanlife SLSS

Oceanlife is leader in the construction of innovative and automated filtration systems.

The Oceanlife Aquatron SLSS (Smart Life Support System) are today the most modern and efficient filtering systems for the aquaculture industry, public aquariums, large private aquariums and professional fish display systems.

They are capable of handling thousands of fish of different species maintaining perfect water quality and a healthy environment, integrating different filter systems including:

- Sump and accessories in technical resins for aquaculture
- EPS (Electronic Protein Skimmer)
- EMBBR (Electronic Moving Bead Biofilm Reactor)
- Trickling Filter
- Electronic Closed Loop Ozonator
- UV Sterilizer (>400 J/m² with electronic irradiance control)
- EPumps, Electronic closed loop pumps with flow control, suitable for use in seawater
- Oxygenation and gas exchange systems
- Additional filters for activated carbon, resins against phosphates, zeolites
- Micro filtration up to 1 µm

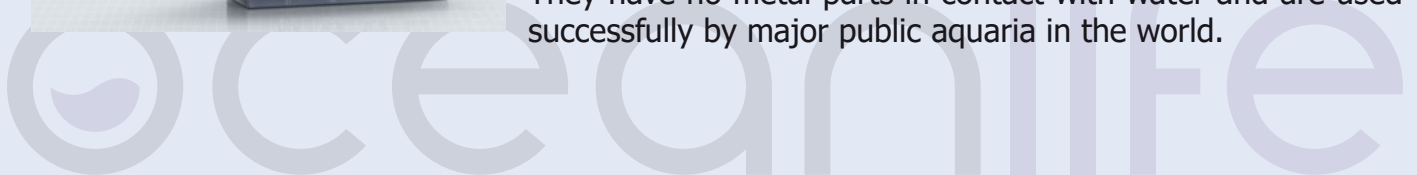


In addition to integrating the best known filter systems and the most efficient biological supports, all water parameters are monitored, processed and if necessary corrected in real time by the Aquatron system. This highly scalable system is the central core of the installation and uses a customizable software, an extended number of sensors and electronic devices that can instantly detect all the parameters you want and trace historical charts:

- Instant water flow
- Temperature (through multiple probes mutually controlled)
- Salinity/Conductivity
- pH
- ORP
- Oxygen
- Ozone
- Ammonia/ammonium
- others



The reliability of the system is ensured by the use of electronic devices designed by industry leaders of the German market such as Siemens the processing units, Bürkert systems for detection of water parameters and Schneider Electric / Toshiba for pump control. These devices are industry standards with maximum quality and efficiency. Mounted pumps are the best in the market and are driven by innovative high-efficiency motors (up to 20% more than regular motors normally used). They have no metal parts in contact with water and are used successfully by major public aquaria in the world.



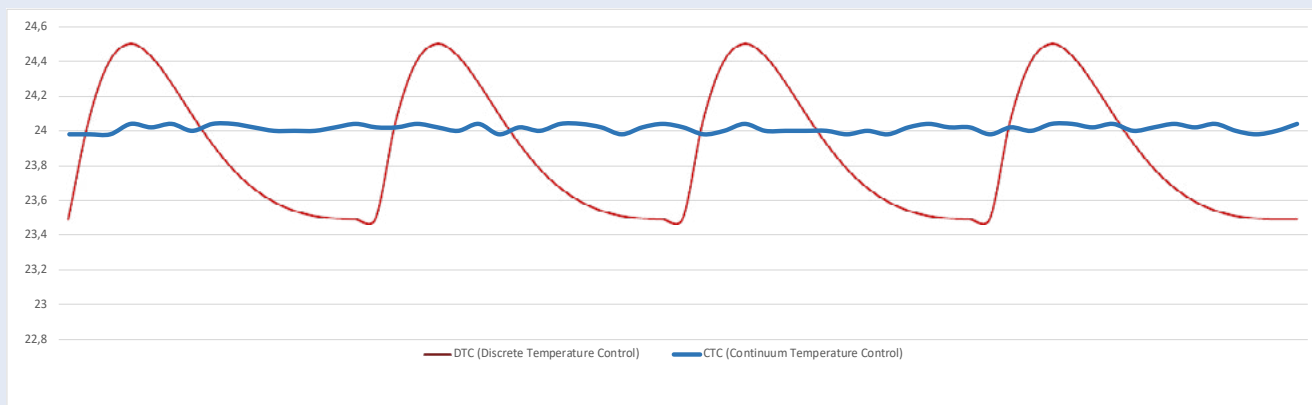
Some features makes Aquatron systems unique and the most advanced in the industry.

Through our system you can automate many procedures that with the use of other products should be controlled and calibrated daily.

Sistema Variatech. The water flow of the pump is controlled and calibrated instant by instant by electronic processing units. The system takes care of automatically vary the power of the pumps so as to maintain the flow rate constant at the set value. This system can be applied to the main pump, the skimmer and all the filters that you want to control, avoiding mechanical flowmeters and control valves.



Continuum Temperature Correction. The usual discrete systems of control does not allow to have a stable temperature, in the best of cases they make oscillate the temperature around 0.5 ° C but can be up to 1 ° C. Through the system Continuum temperature correction, the temperature remains stable around the set value, securing stability and prosperity to the fish population.



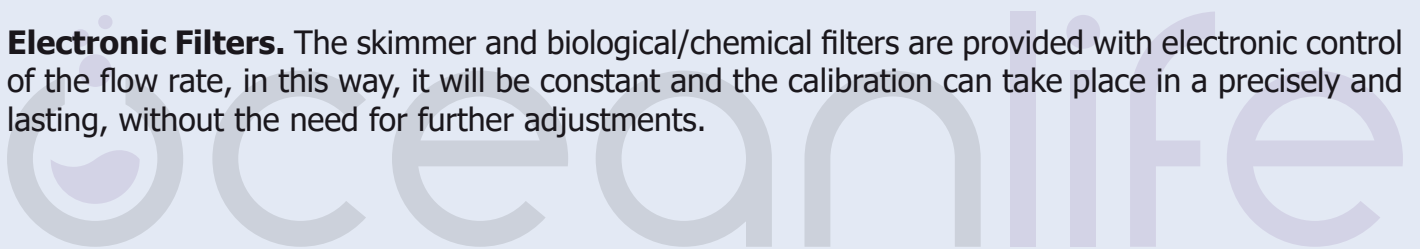
The system integrates with energy efficient heating and cooling systems, including through the use of renewable sources.

Continuum Salinity Correction. Through this system, the plant is able to detect and automatically correct, during the automatic top up, the salinity of the water.

Automatic Water Change. With this system, at the touch of a button, will start a full set of procedures to perform an automatic water change.

Automatic Ozone and Oxygen administration. Through dedicated probes it is possible to measure the levels of dissolved gases and administer them in a precise manner via the computer system.

Electronic Filters. The skimmer and biological/chemical filters are provided with electronic control of the flow rate, in this way, it will be constant and the calibration can take place in a precisely and lasting, without the need for further adjustments.



Management of the storage tanks level. The level of water storage tanks is controlled by the computerized system.

Reverse osmosis system RO-DI at low pressure and automatic regeneration. Aquatron integrates with a reverse osmosis system with strong resins deionizing section, capable of automatically execute the rinses of the membrane and the regeneration of the resins, as well as indicate when it is necessary to replace the pre-filter and the activated carbon.

Remote Control. The system can be remotely controlled, anywhere in the world.



Scalable and flexible. The system is also highly scalable. You can choose the features you want and you can do feature upgrades at all times.

