

## Challenges Of Aquaculture Industry

Fresh water replenished from external sources is unavoidable for aquaculture industry. But it is extremely high probability that the external water sources is contaminated by harmful aquatic invasive species and pathogens carried by fish living in it. The spread of diseases as resulting may significantly threaten the health of fish in aquaculture farms and reduce the reproductive capacity of hatcheries.

The aquaculture enterprises bear serious economic losses. As for traditional water treatment methods and disinfection processes, it is insufficient to prevent the spread of infections caused by inefficient disinfection effects.



## Disadvantages Of Chemical Disinfection

At present, chemical disinfection and physical disinfection are two main methods of water disinfection for aquaculture. Chemical disinfection method is represented by chlorine disinfectants and ozone disinfection. Although with a long history of application, for chemical disinfection process, it is difficult to avoid the generation of disinfection by-products, side-effects of which is particularly conspicuous in aquaculture industry.

## UV Disinfection

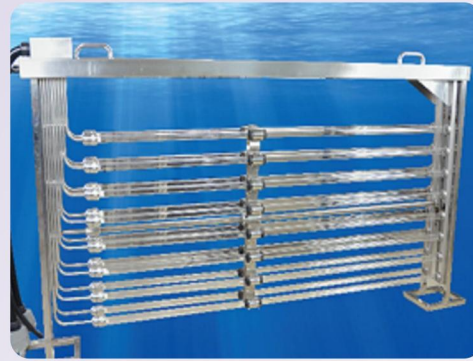
Principle of UV disinfection: DNA or RNA structure of microorganisms in water is damaged by high intensity radiation (200-280nm wave length mainly) of UV lamps, which results in death and (or) degeneration of microorganisms.

UV disinfection is a physical method, not adding any substance into water and without side-effects generated during process. It is with advantages of high efficiency and low cost. The UV disinfection equipment, which is easy to install and operate, can run automatically.

After decades of development, UV disinfection process becomes a mature, reliable, efficient, and environmentally friendly technology, has been being widely applied in aquaculture in United States and Canada

## UV System Designed For Open Channel Installation

This serial product is extremely small footprint and compact design, which makes it ideal for onshore seawater farming or RAS. This also results in more space for fish production and better overall hygiene.



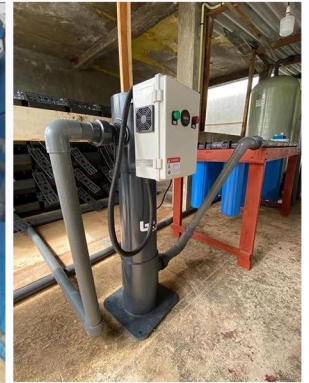
## UV System With Medium Pressure Lamps

This serial UV system is particularly suitable for fish fry incubating and shrimp fry incubating, as well as high-density aquaculture factory.

Benefitting to multiple wave length UV light by powerful medium pressure UV lamps, killing efficiency against Cryptosporidium, giardia and their eggs in water can be high over than 99.9%.

This product is suitable for seawater disinfection, as chamber of which is made of SS316L, by electrochemical polishing treated to against seawater corrosion.

## UV System With Low Pressure Lamps



Low pressure UV lamps (amalgam lamp or High-Output lamp) are installed in chamber made of HDPE or PVC, which is cost competitive against stainless steel. At the same time, HDPE or PVC is particularly with capability of Corrosion-resistant and UV-resistant.



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