

BUILDING

Cost-effective fish farming systems

IS OUR BUSINESS



aquatec-solutions.com





Aquatec-Solutions supplies Optimized and Environmental sound fish farming systems for both salt and fresh water fish



Our goals

To be the preferred sparring partner and supplier to the fish-farming industry.

Total supplier from components to full scale re-circulation systems.

Meeting all customers requirements.

Maintain a leading position through constant product development and testing.

Optimized and cost effective production systems.

Professional authorised dealers to secure on site service.

FLOW THROUGH SYSTEM

The "Flow through" system is the traditional way of production.

FLOW THROUGH FACTS

- Open to disease from intake water
- Temperature depend fully on intake water
- Low efficiency on salt treatment
- Well known technology
- When establishing new flow through farm, investment / kg production capacity is circa the same as a new re-circulation system.
- Very high cost both in investment and running costs to sterilise intake water.
- If heating – very high heating costs
- Site placement depends on large amount water availability

FLOW THROUGH BENEFITS

- Possible full oxygen level control
- Possible full system monitoring
- When using existing facility – no investment

RE-USE SYSTEM

Re-use gives you a fast track to increased production. DOUBLE YOUR PRODUCTION at low costs, and have your system fully prepared for expanding your fish farm to a fully re-circulated system at a later stage. By re-using your present available water intake 1 or 2 times, you can in most cases double your production in your existing fish tanks. Re-use systems designed in the right way, is the first step to Re-circulations and the gateway to all the benefits available in modern fish farming.

RE-USE FACTS

- Temperature depend fully on intake water
- Relative high cost both in investment and running cost to sterilise intake water
- Low efficiency on salt treatment
- Well known technology
- When establishing a new re-use farm, investment / kg production capacity is circa the same as converting existing tanks to re-circulation.
- If heating – very high heating costs
- Site placement depends on large amount water availability

RE-USE BENEFITS

- Full oxygen level control
- Full system monitoring
- Low manpower need
- Low investment
- Low energy costs
- Reduced water usage by 50 - 66%

RE-CIRCULATION SYSTEM

Re-circulation gives you unlimited possibilities. PRODUCE FISH AT ANY LOCATION as long you have access to minimal water supply. Example: 1000 ton production per year – water usage 0,25 litre/second.

INCREASE YOUR PRODUCTION BY 4-6 TIMES in your existing tanks, and cut your production costs by 30 – 50 % and profit from all the BENEFITS in Re-circulation technology. Re-circulation gives you all opportunities to supply your customers FISH FREE OF DISEASE AND CHEMICAL RESIDUES – and that is what customers want.

RE-CIRCULATION FACTS

- Intake water = 0,5 - 25% / day of total volume of fish tanks
- Investment same or lower per kg produced fish – compared to flow through and re-use.
- When adding salt, concentration is easy kept for many days – due to low water change.
- Possible to increase temperature to 19 degrees Cel. in order to cure IPN outbreak
- The low amount of intake water, makes it affordable to sterilise 100%.
- The low amount of effluence makes it easy to handle and to comply with environmental legislations.
- Production planning becomes easy, as there is no dependence on weather conditions.
- Oxytetracycline have no negative influence on biofilters.
- More than 20 years of experience with re-circulation – secures well proven technology
- Free choice of site placement – need no river.
- Compared with Flow Through and Re-use, the production cost in Re-circulation are 30 – 50% lower.

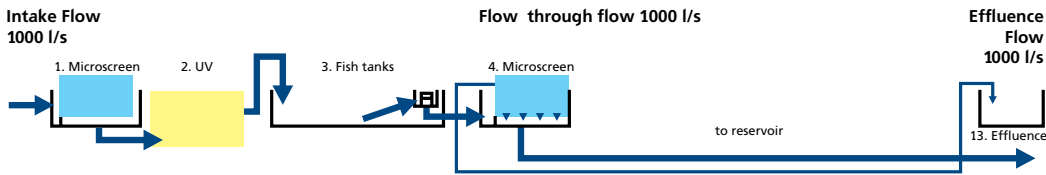
RE-CIRCULATION BENEFITS

- Low investment
- Full disease control
- Full temperature control
- Full salinity level control
- Full water quality control
- Full smoltification control
- Full oxygen level control
- Full effluence control
- Full freedom of site location
- Full production year round
- Full system monitoring
- Full management support
- Low production costs
- Low or no mortality
- Low or no medicine usage
- Low feed conversion
- High growth rates
- Low manpower need
- Low risk profile
- Low salt usage
- Low energy costs
- Low maintenance costs
- Low or no heating costs
- Reduced water usage by 99,97%
- Environmentally sound production

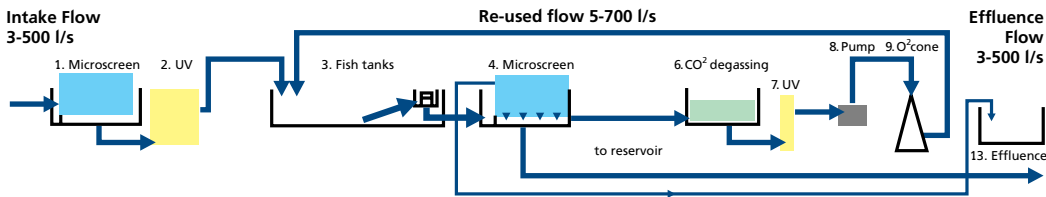


Four ways of fish farming...

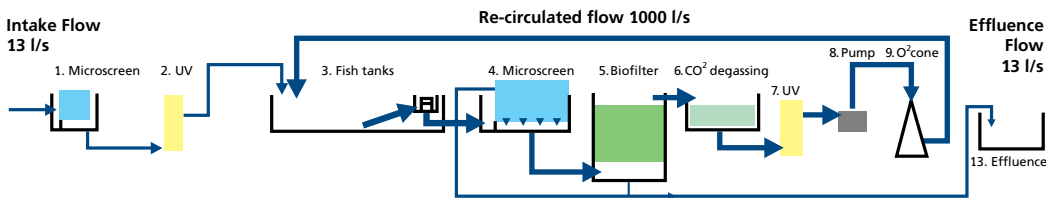
FLOW THROUGH (FT)



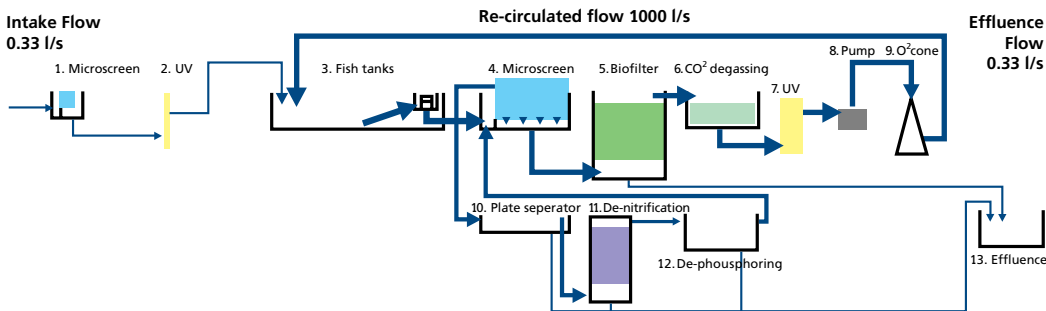
RE-USE SYSTEM (RU)



BASIC RE-CIRCULATED SYSTEM (BRC)



CLOSED RE-CIRCULATED SYSTEM (CRC)



EXPLANATION:

1. Intake water mechanical filtration
2. Intake water UV filtration
3. Fish tank
4. In-line mechanical filtration

5. Biological filtration
6. Degassing CO₂ stripping
7. In-line UV filtration
8. Main pumps
9. Oxygenation,
10. Sludge Plateseparator

11. De-Nitrification
 12. De-phosphours system
 13. Effluence treatment.
- High water flow
 Low water flow



aquatec-solutions.com

Amhedegaard · Springbjergvej 15-16 · DK-7183 Randboel · Denmark

Phone +45 75 88 02 22 · Fax +45 75 88 02 23 · aquatec@aquatec-solutions.com · www.aquatec-solutions.com

MEMBER OF AA HOLDING A/S GROUP OF COMPANIES · WWW.AAHOLDING.DK



Ole Enggaard Pedersen
Managing Director



Morten Nielsen
Director