

Can Technology in Lab Animal Science support reproducible and precise research?

MASSIMO FERRARI

**1ST NORDIC ZEBRAFISH &
MEDAKA CARE WORKSHOP**

Wednesday 7 February 2018

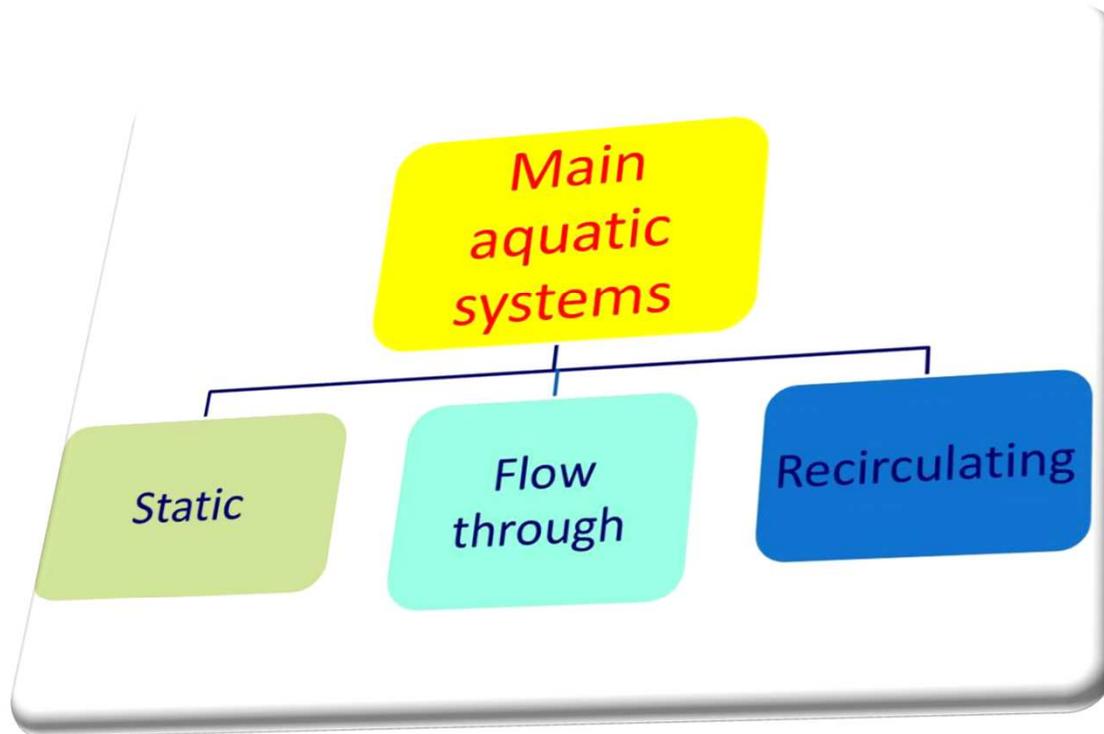
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Historical Trends

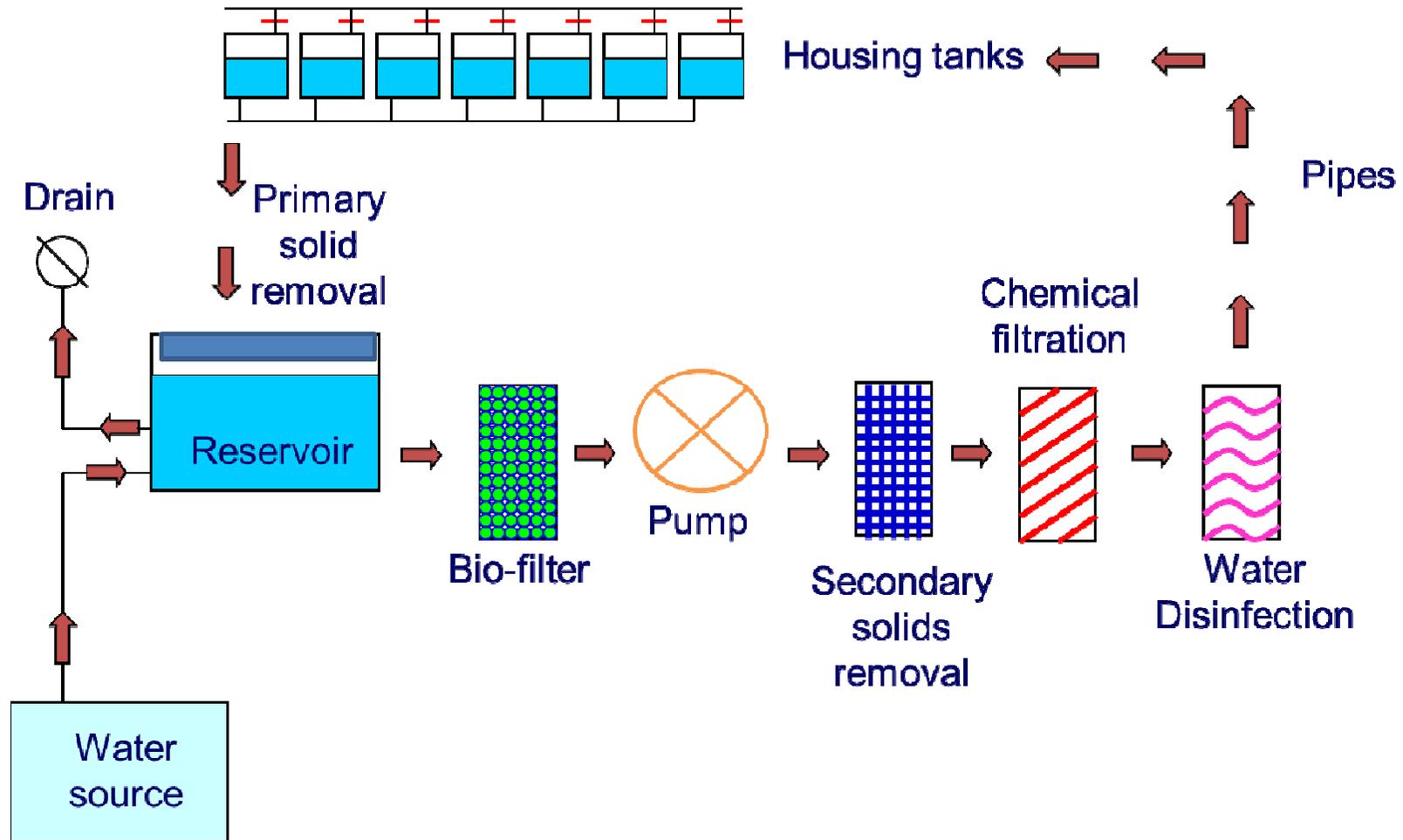
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Housing Systems for Aquatic Species

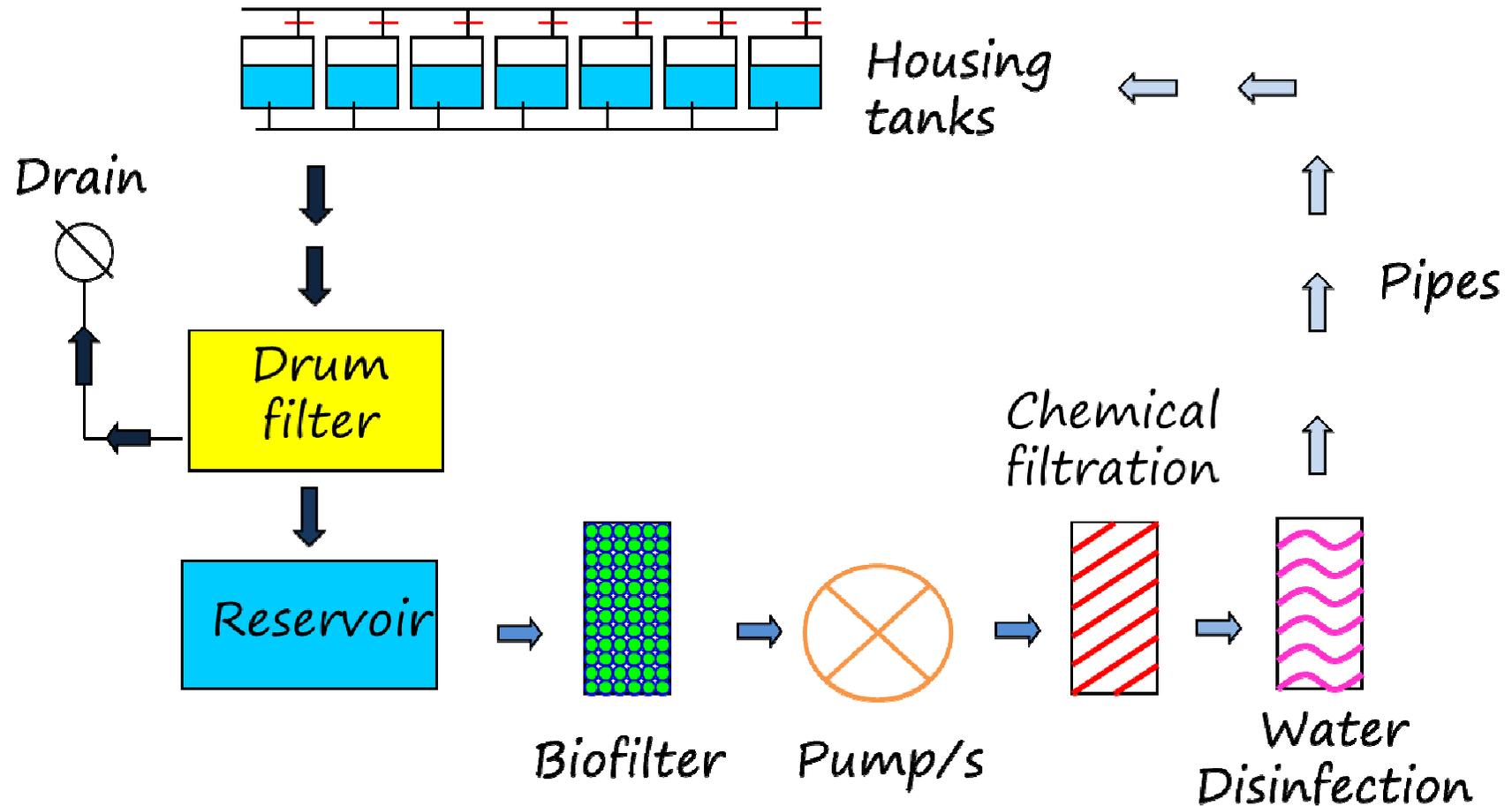


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Recirculating System



Recirculating System Self-Cleaning design



Institutional Support

EUROPE



USA

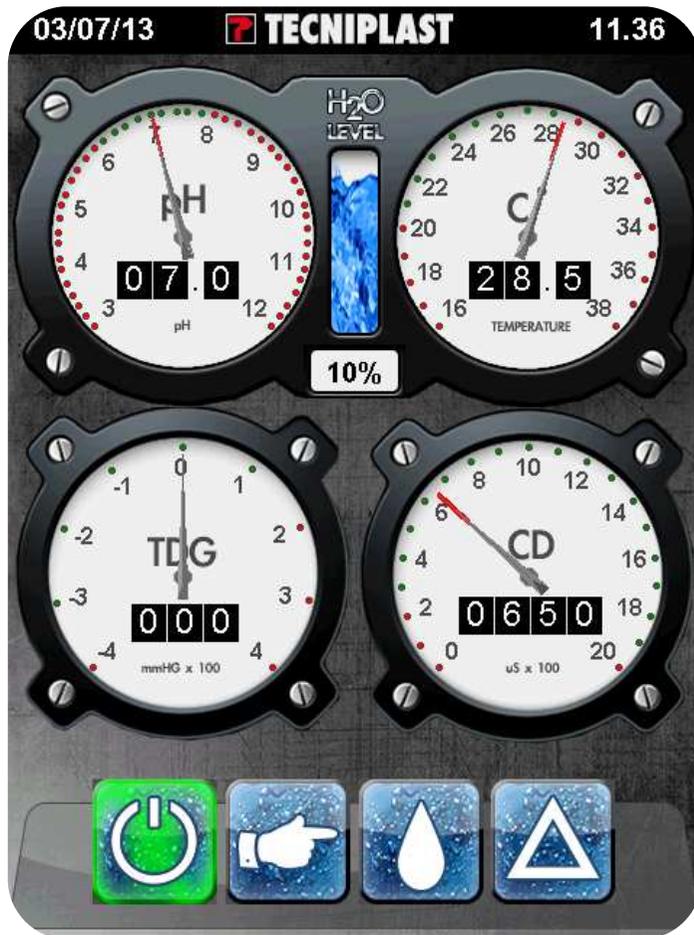


Technological Evolution

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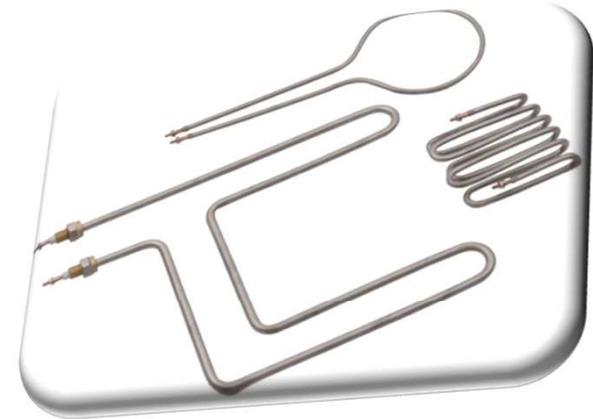
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Monitoring System



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Probes and buffering Systems



*Constant Water Quality
parameters kept 24/7*



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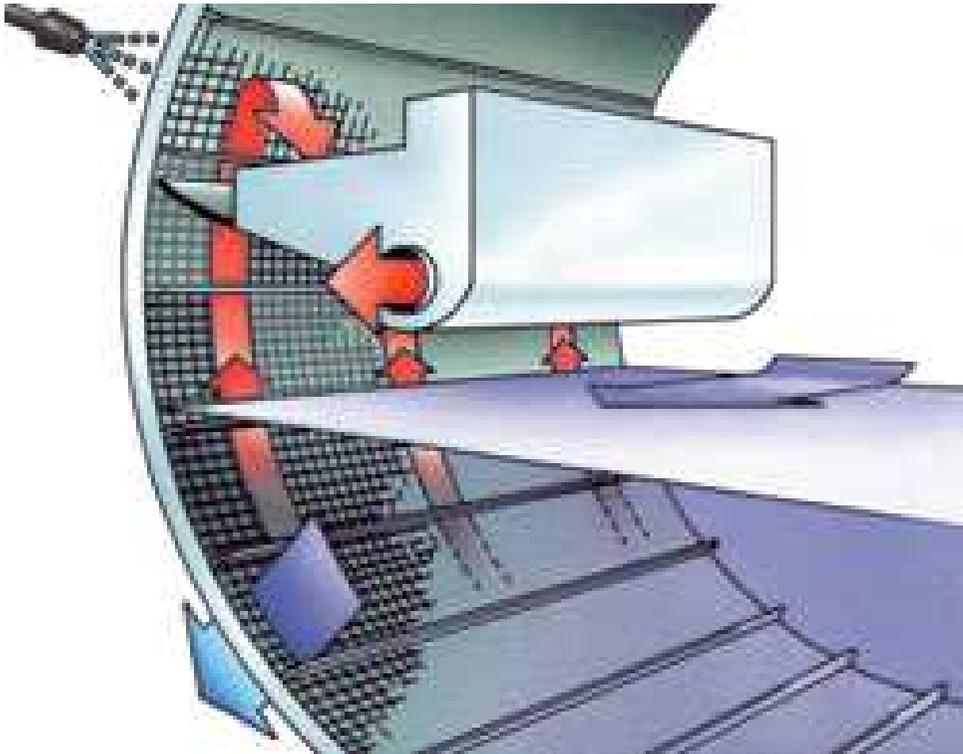
Water Delivery



VFD pumps, flow-meter, pressure sensor to maintain a constant water flow at tank level

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Water Consumption



- *Constant control of correct water refreshment*
- *Constant control of water consumption*

Water Disinfection



- What is the Disinfection killing rate?
- How can I know they are working properly?
- How do I know it is time to change?

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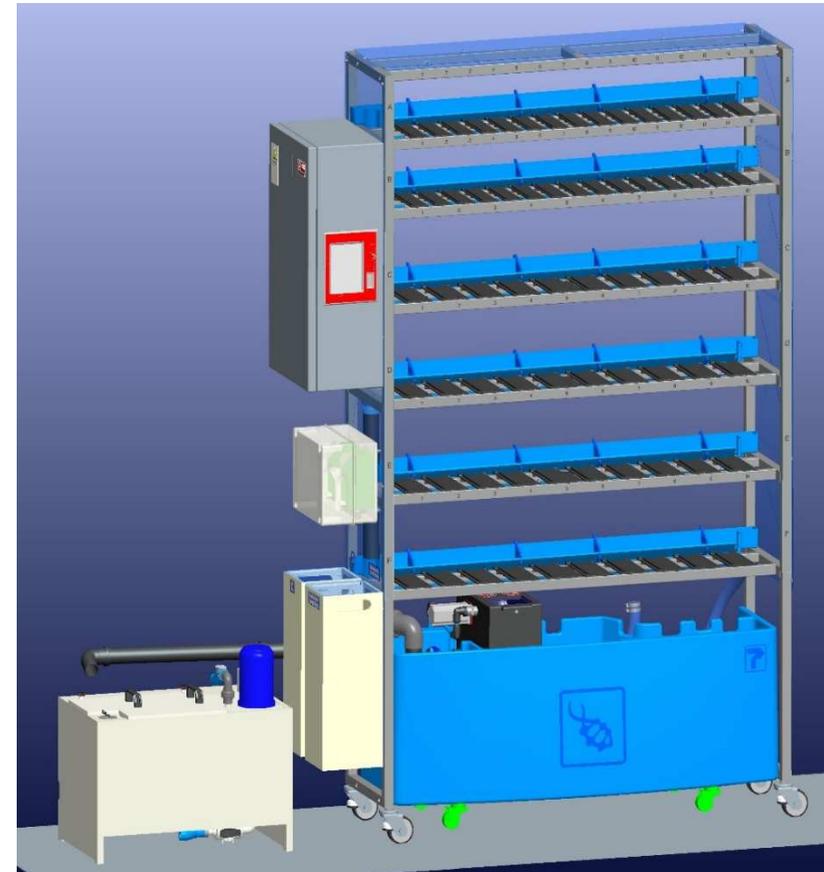
Sentinel Program



Preventive routine evaluation for specific pathogens

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Disinfection Units



Treatment of Effluent Water

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Photoperiod



Set and homogeneous light intensity across the tanks

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Automatic Feeding System



Constant, precise and trackable delivery of food



THANK YOU!

Massimo

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