

Small-scale RAS applications

Blue Platform workshop on Innovative Technologies in Aquaculture

Webinar, 17th November 2020

Bartosz Blum - Aqua Medic Poland

AQUA MEDIC



EUROPEAN
REGIONAL
DEVELOPMENT
FUND

Blue Platform

Aqua Medic Poland Bartosz Blum since 2004

Professional custom-made

- Custom made marine/freshwater aquaria, terraria, vivaria, made from glass, stainless steel, PP, PVC
- LSS (Life Support Systems)
- RAS (Recirculating Aquaculture Systems)
- Filtration systems for public aquaria
- Lobster tanks for HORECA
- Thermo-insolated tanks

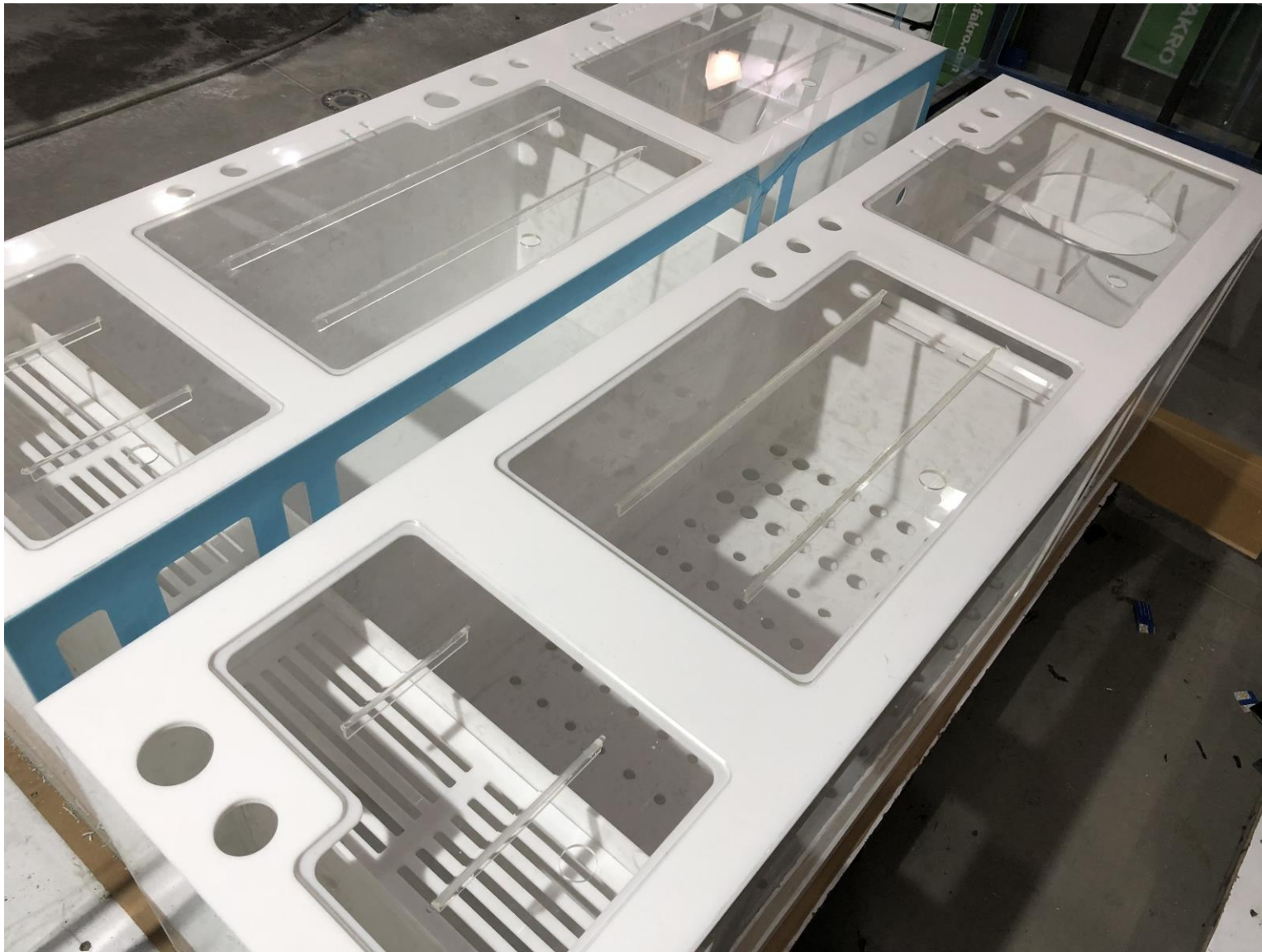




SystemFilter 10000 for public marine tank



SystemFilter 5000
For freshwater fish



Custom made acrylic (PMMA)
Filtration system for Lobsters

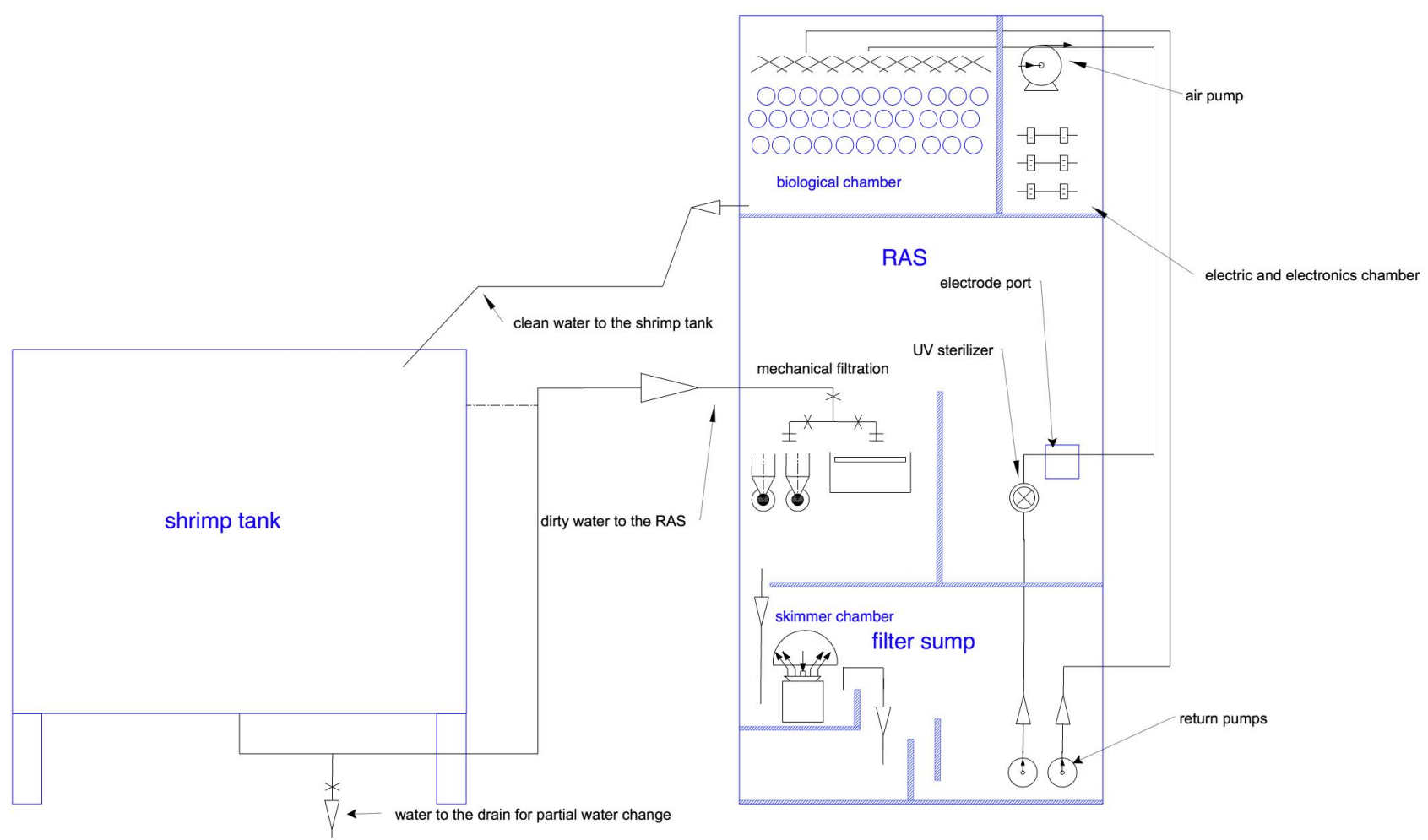
Production of small scale RAS for the University of Gdańsk – **Innovative Aquaculture of the White Shrimp - *Litopenaeus vannamei***



Goals:

Downsizing RAS to laboratory scale

- RAS size / floor loads / doors / elevators
- Water volume and bioload of the system
- Ease of maintenance
- Low Energy consumption
- Lightning of the shrimp tanks
- Health and safety issues for laboratory staff
- Construction with sea-water resistant materials
- Defining water parameters - salinity / ph / Redox / oxygen content
- Filtration stages – mechanical / biological / chemical / sterilization
- Safety of the system – doubling critical elements
- Salinity / ph / Redox
- Monitoring and data recording - salinity / pH / redox / temperature











Thank You for your attention!

Aqua Medic Poland

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