SAGA AQUA

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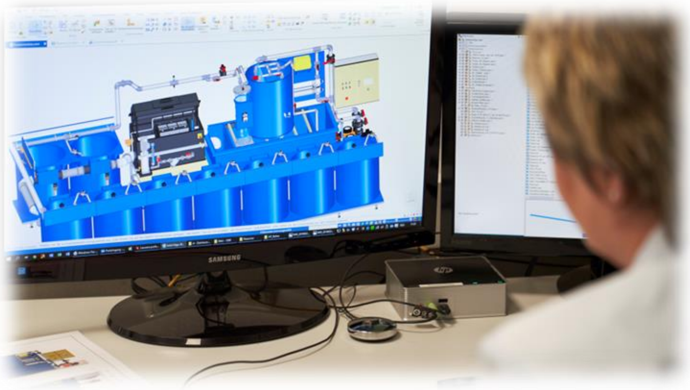
The process

- The normal process would be to sit down with clients, discuss the goal, requirements and needs
- Plan the design requirements and make a sketch of the design
- Discuss with the client
- Make a detailed drawing
- Continue with the project



Wish list?

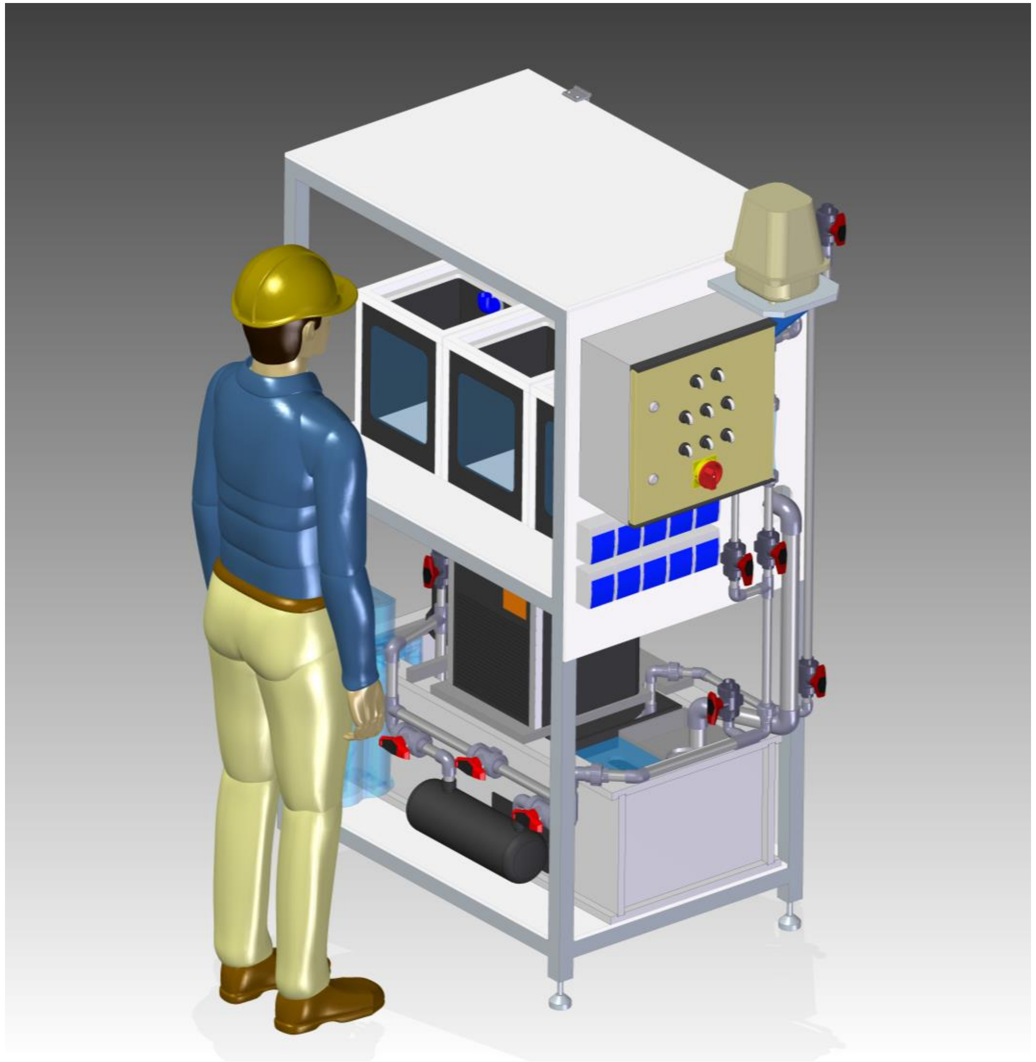
- “Small-room”
  - RAS as the replicate unit
  - Tanks as the replicate unit
  - Flexibility – ability to exchange tanks/raceways/filter units/etc.
  - Respirometer units
  - Perhaps… Aquarium walls for small-scale experiments

- “Medium Room”
  - RAS as the replicate unit
  - Tanks as the replicate unit
  - Flexibility – ability to exchange tanks/raceways/filter units/etc.

- *”Algae Room”*
  - *Algae production towers in several possible designs*
  - *Raceways*
  - *Upwelling units plankton*
  - *”Table-top” design algae production*
  - *Tumble pools*

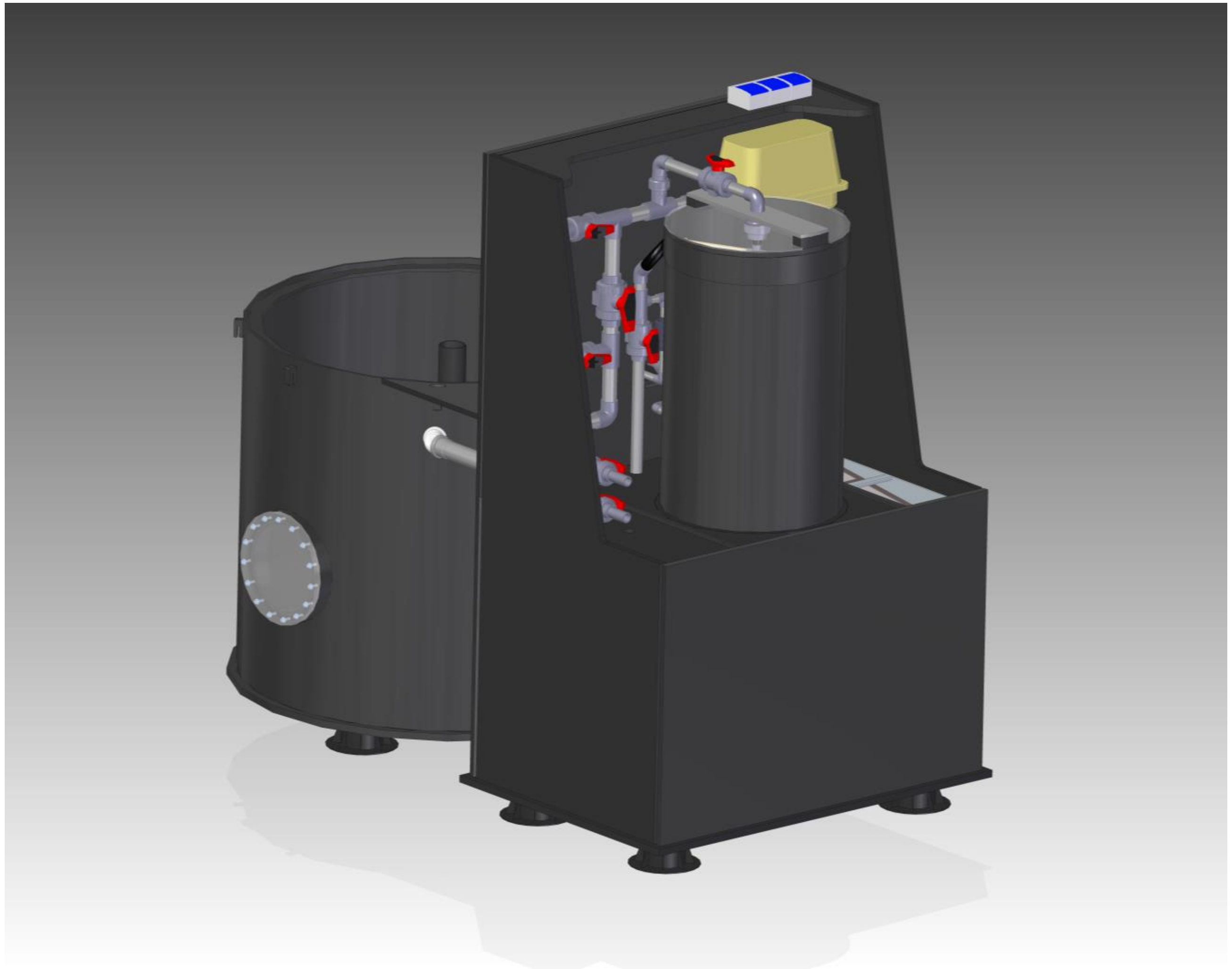
Small Room

- Aquarium wall with small aquaria
- Can be setup and designed with different numbers of interchangeable aquaria
- Self-standing RAS

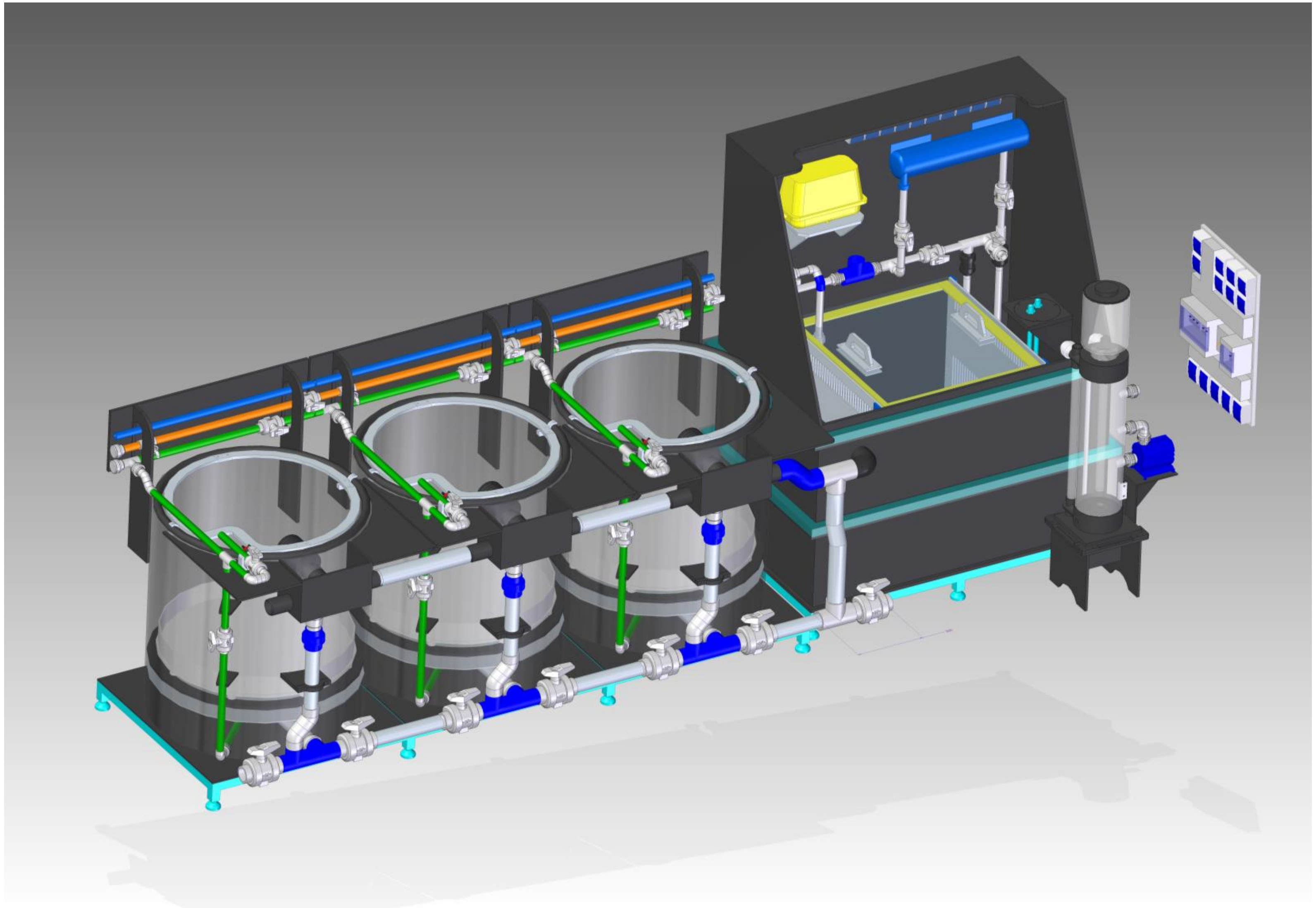


Small Room

- Single tank @ 1000L
- Self-standing RAS
- 12 replicate units

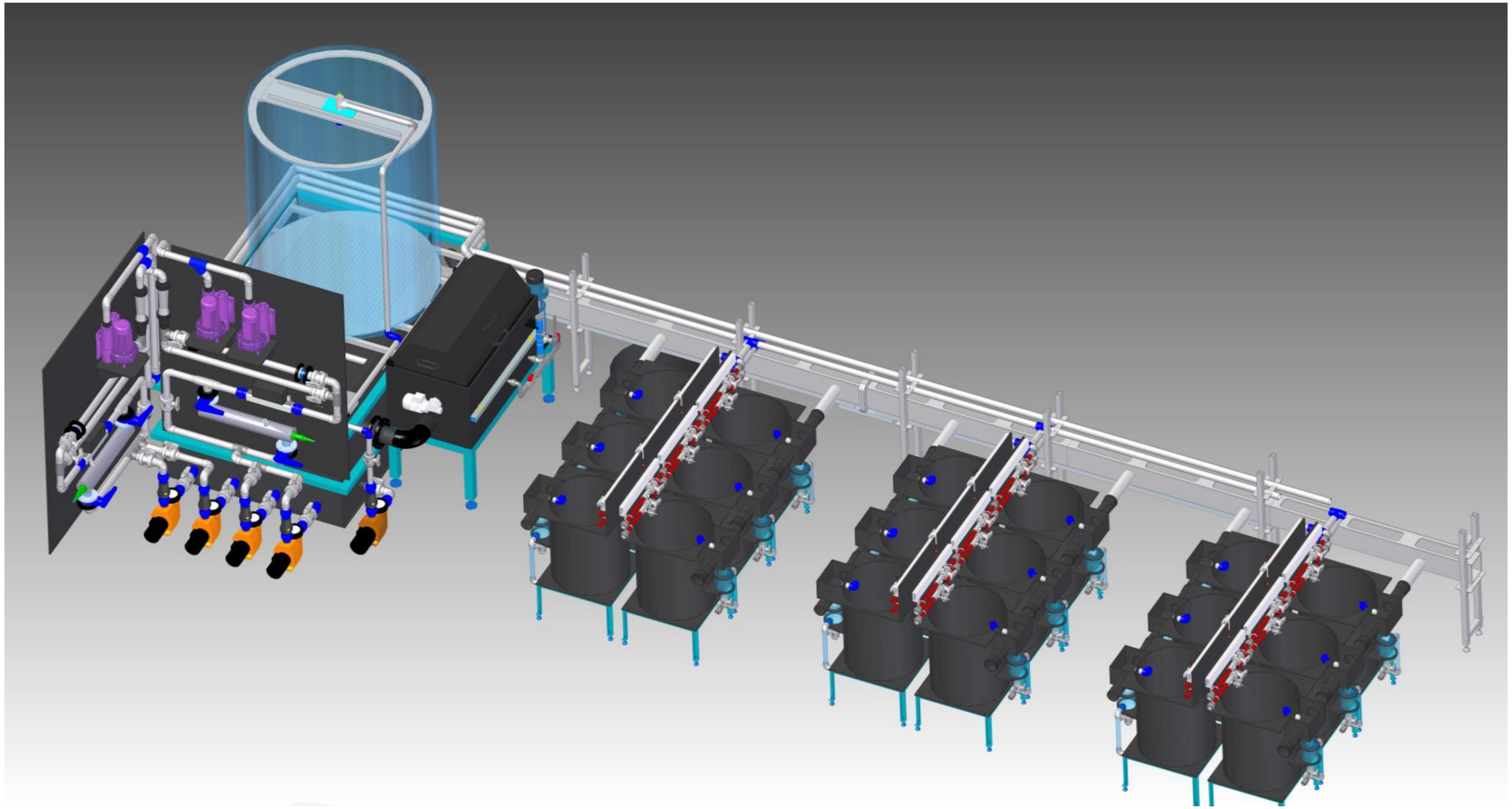


Small Room



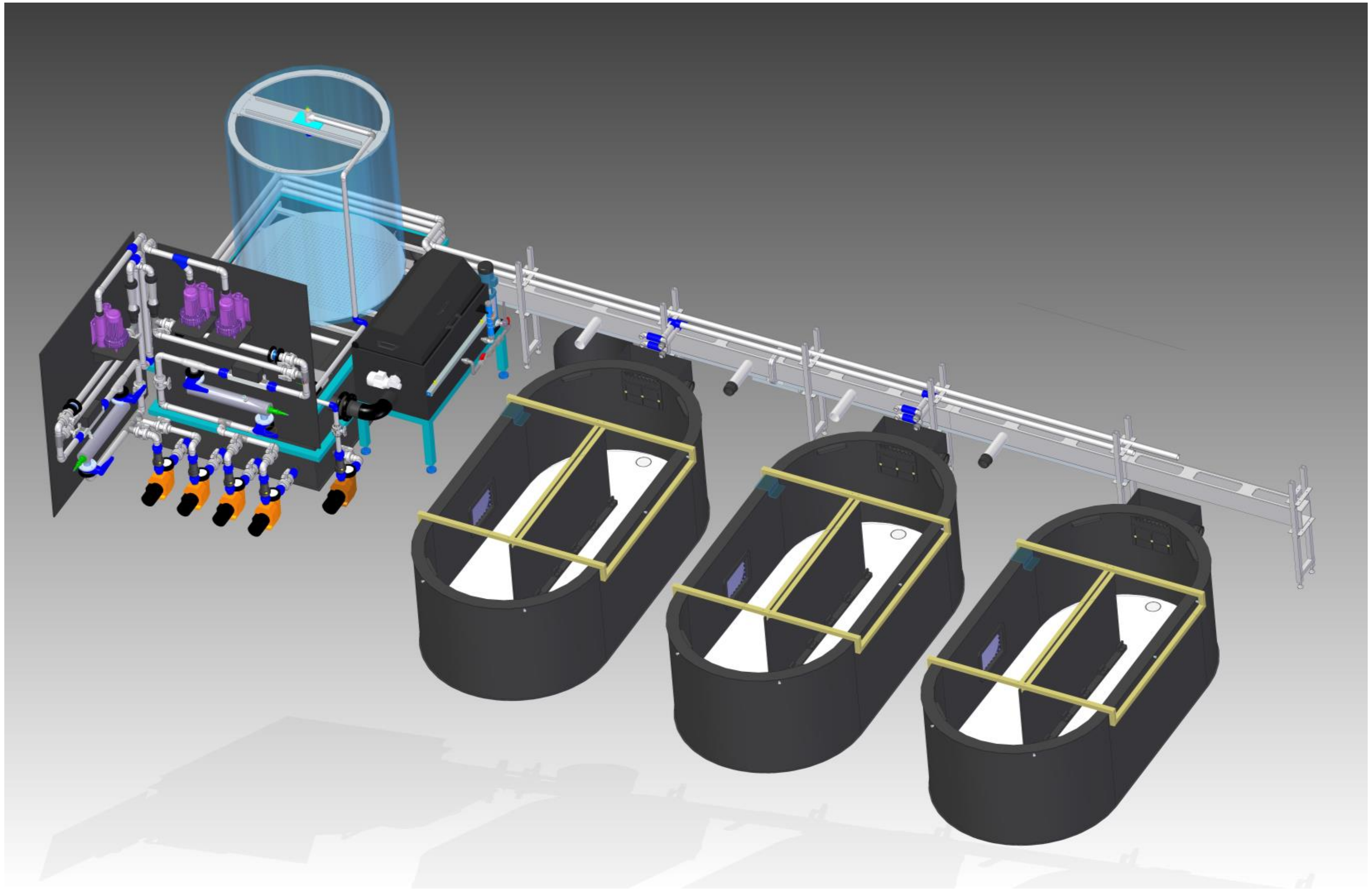
- Self-standing RAS
- 3 replicate tanks@500L each
- 12 replicate RAS units

Small Room



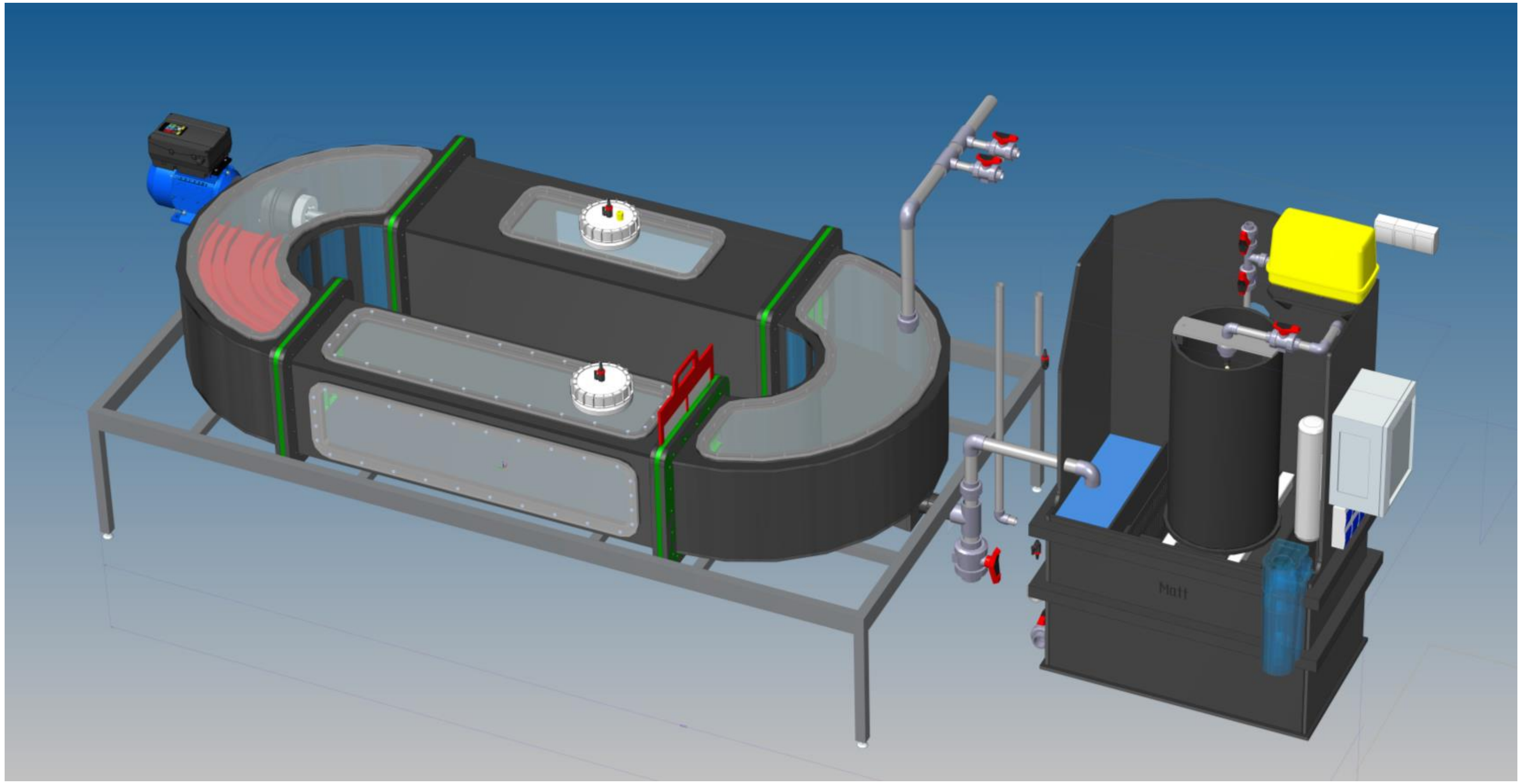
- RAS with 18 replicate tanks @ 500L
- 2 units
- Interchangable tanks/raceway
- Bypass on RAS filter units

Small Room



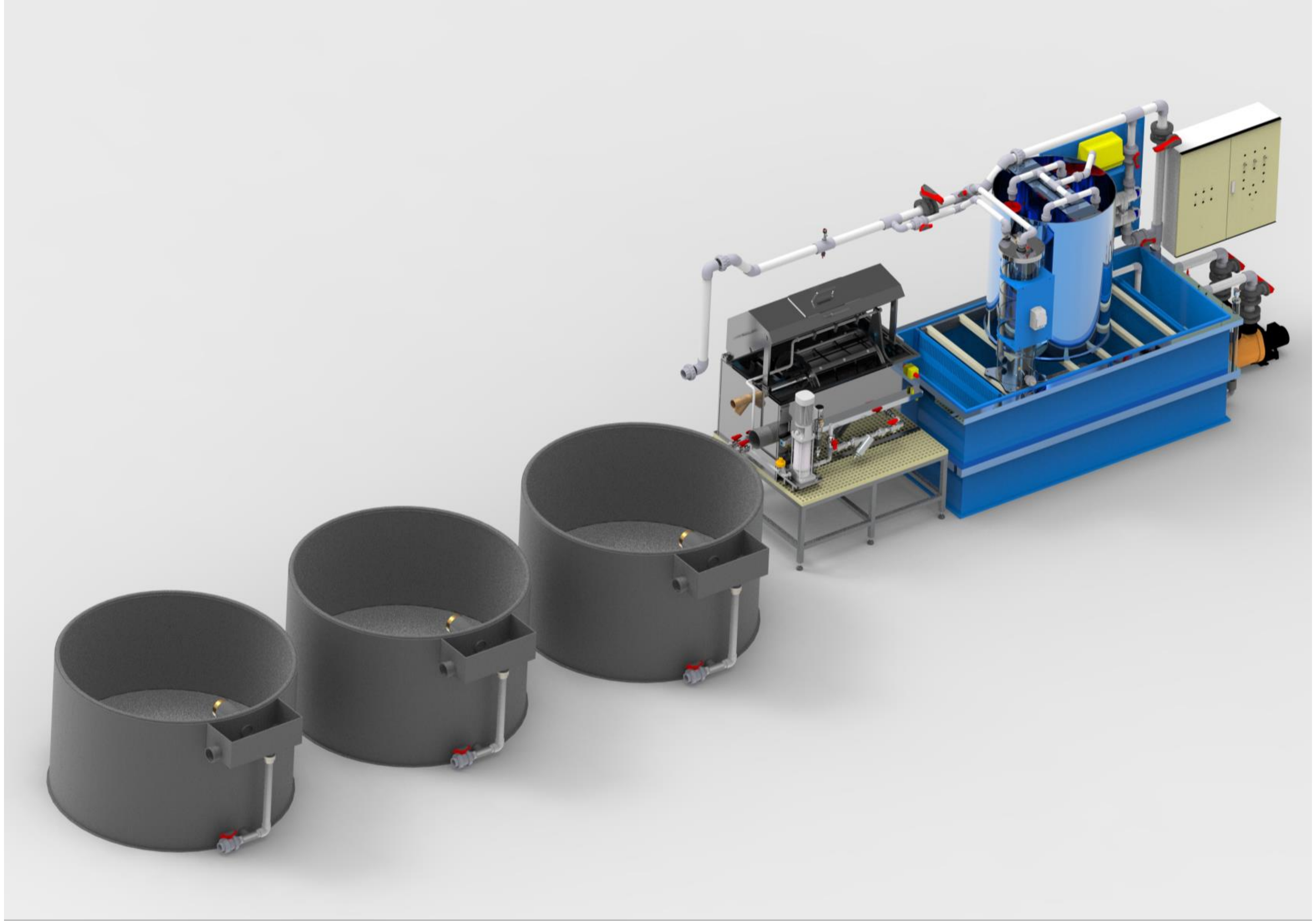
- Same RAS showing 3 raceways @ 3000L
- Interchangable tanks/raceway
- Bypass on RAS filter units

Small Room



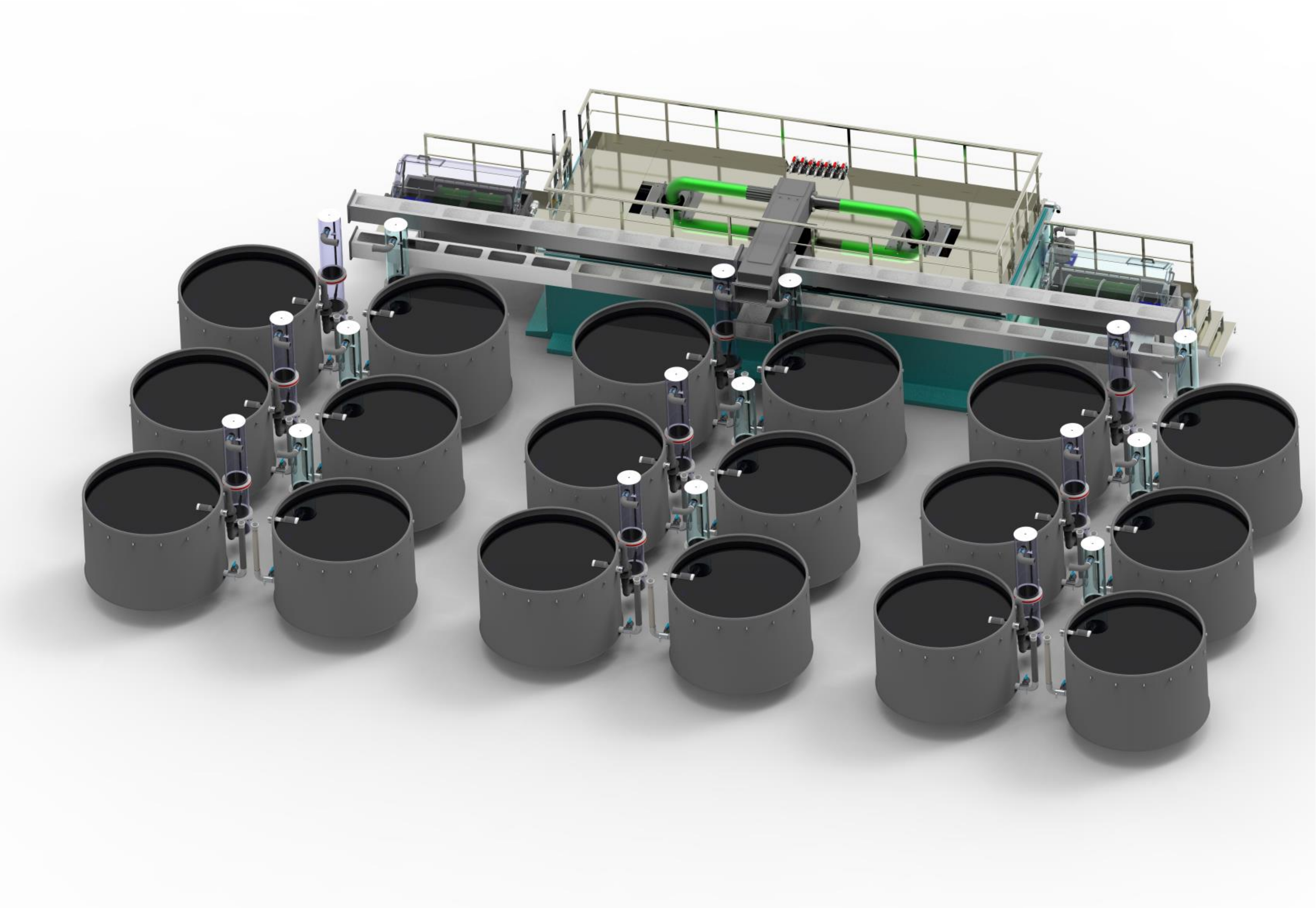
- 3x Self-standing RAS raceways @ 1000L
- Built in respirometry and swim tunnel

Medium Room



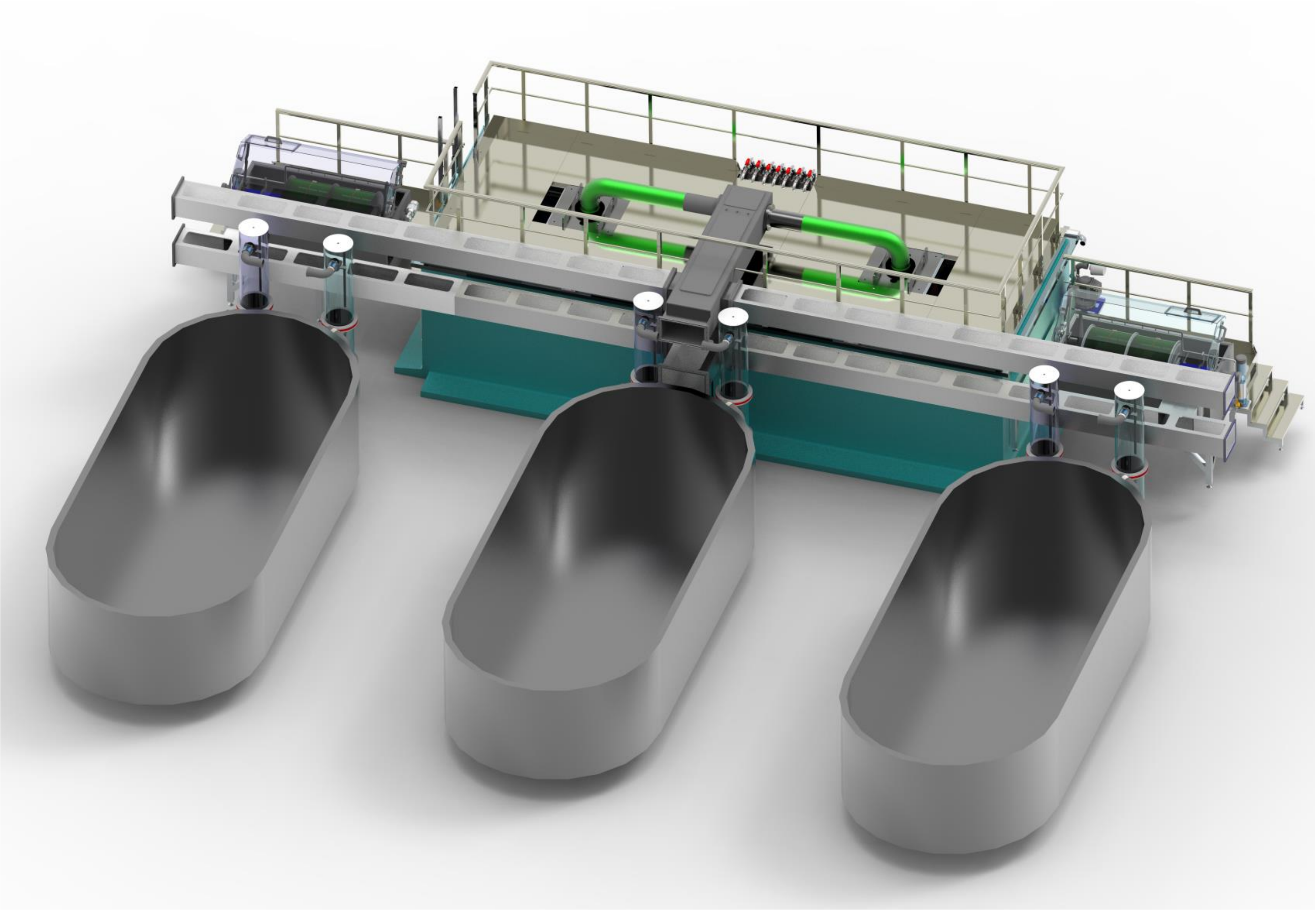
- Self-standing RAS
- 3 tanks @ 3000L each
- 12x RAS as replicate unit

Medium Room



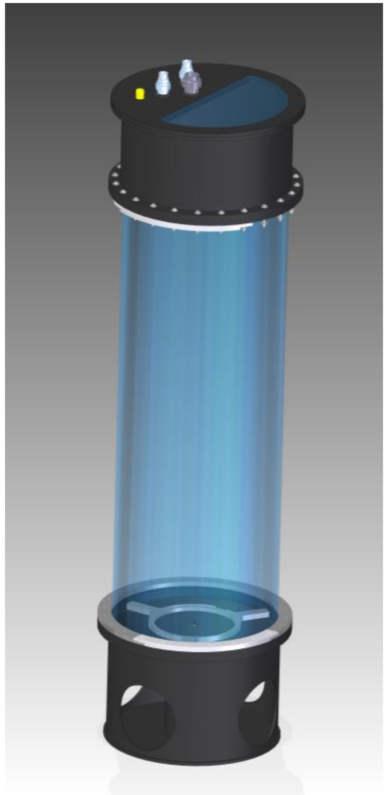
- Self-standing RAS
- 18 tanks @ 3000L each
- Interchangable tanks/raceway
- Bypass on RAS filter units
- 2x RAS units

Medium Room



- Self-standing RAS
- 18 tanks @ 3000L each
- Interchangable tanks/raceway
- Bypass on RAS filter units
- 2x RAS units

“Algae” Room



- 10x algae production towers

- plankton production tower units

“Algae” Room

- Table-design for algae production

- 5x4 zooplankton production area

“Algae” Room

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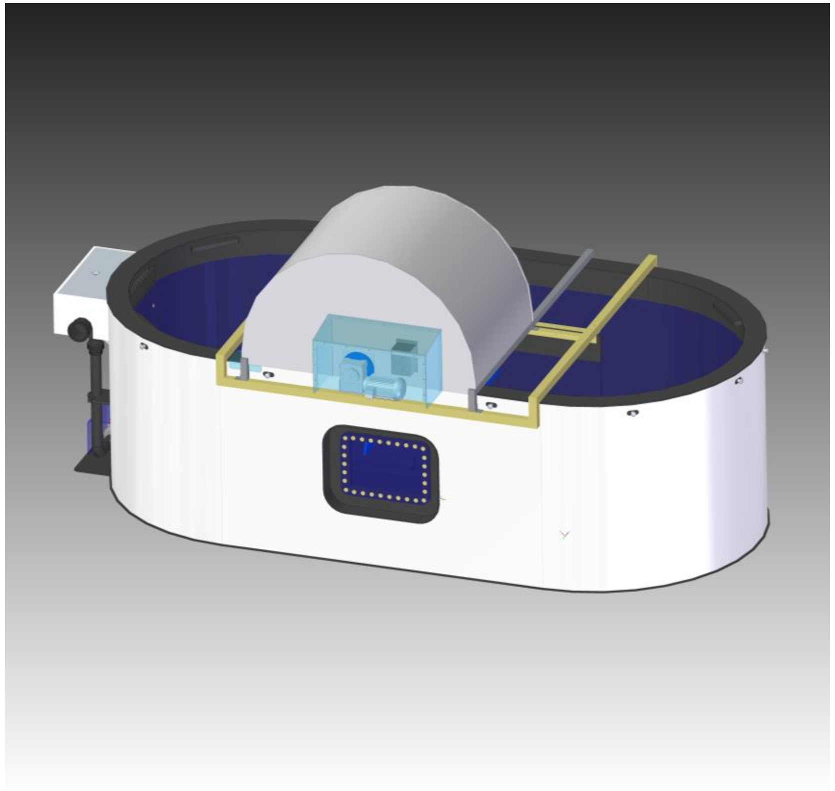
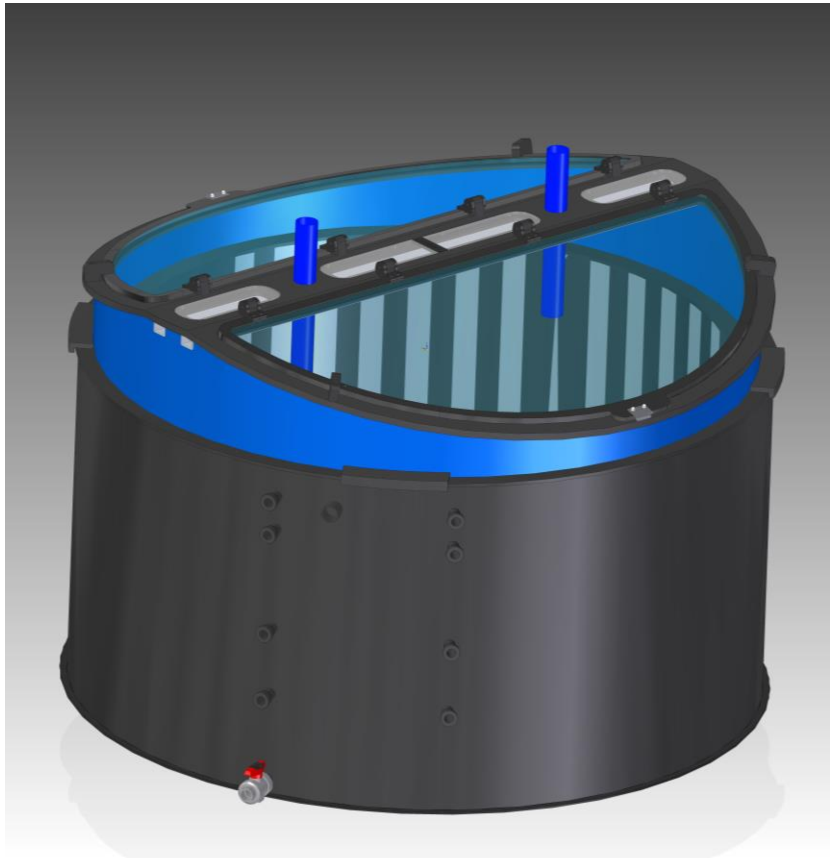


- 3x Raceway algae production units

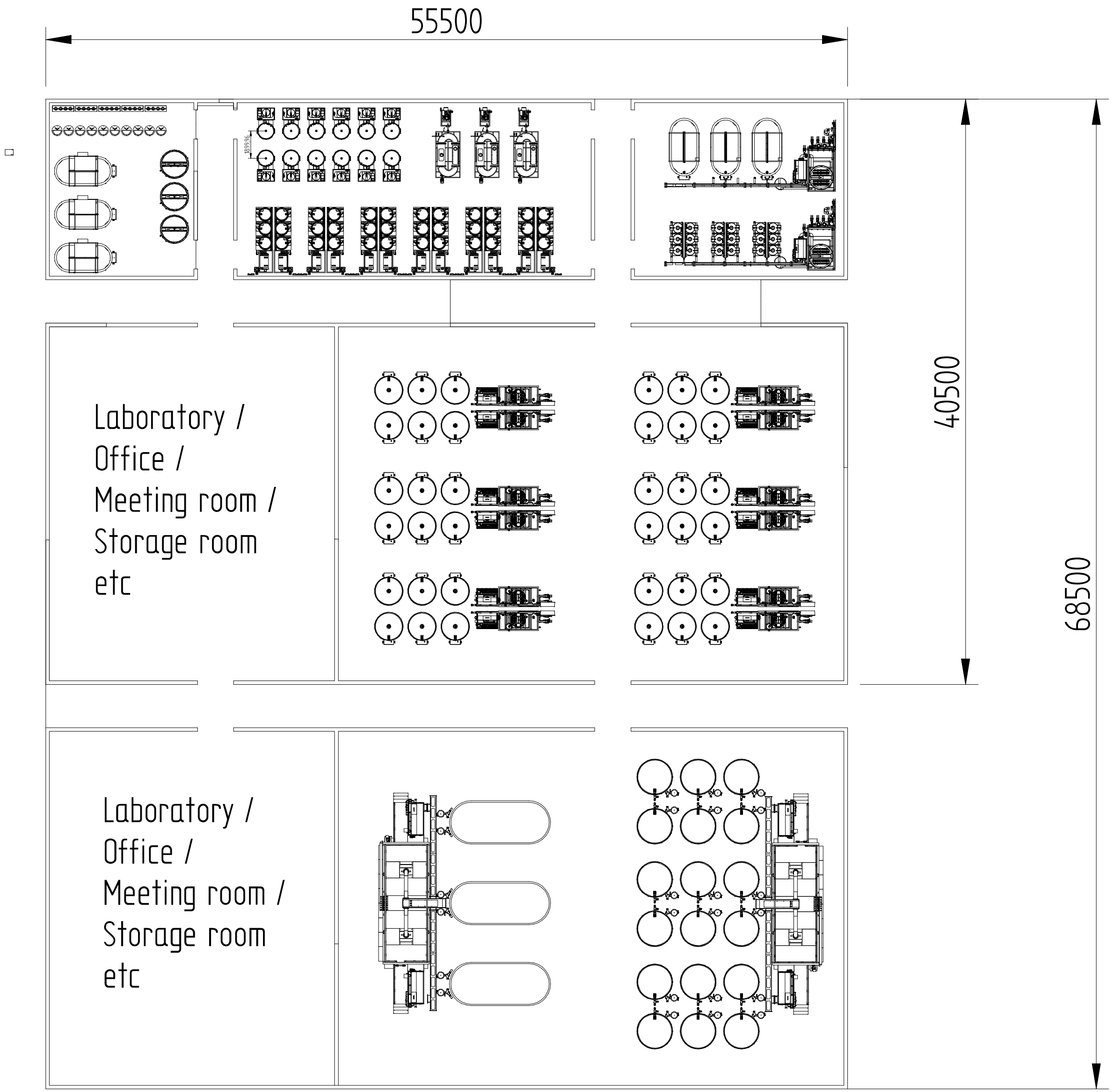


- 3x Tumble-pools

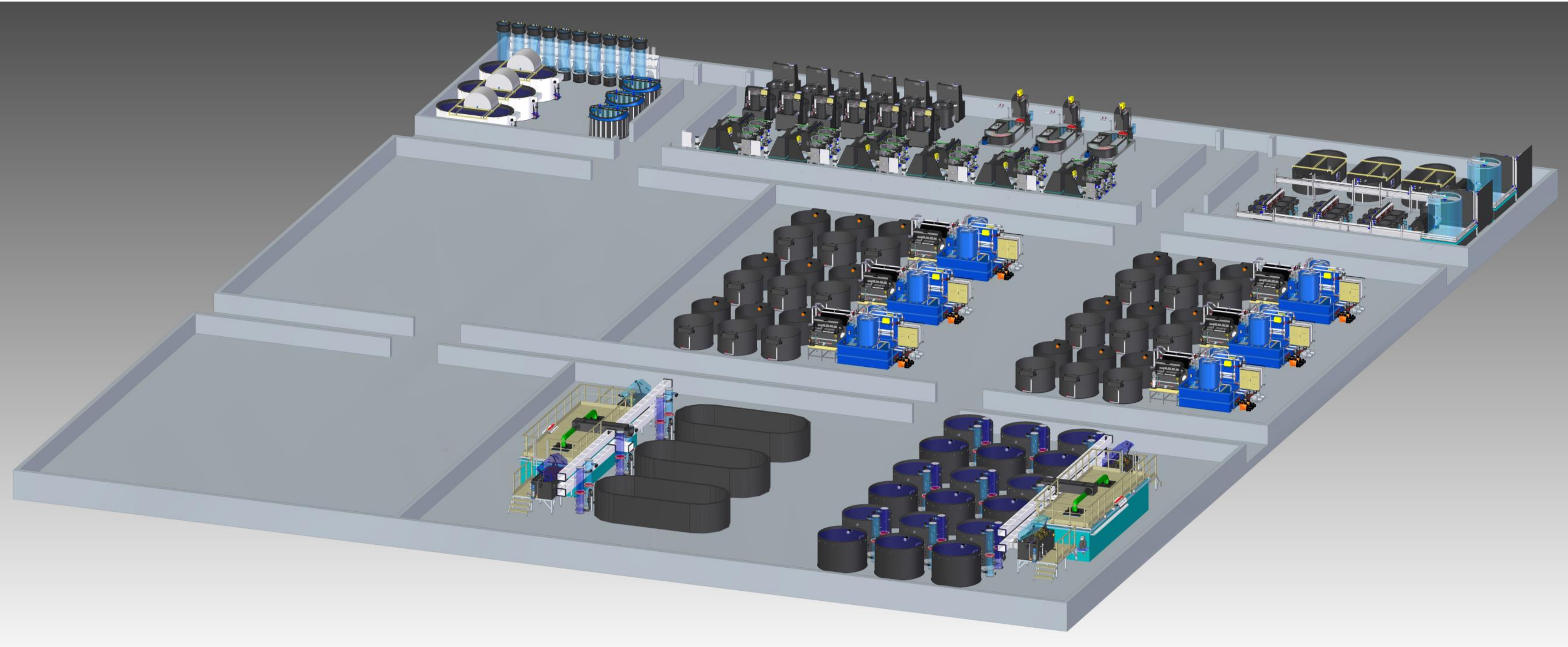
Now to fit it all together!

- Flexibility – we need floor space to manouver between the systems
- We also need some kind of division between some of the areas for experiments/production
- Let’s go!

Floor plan


55500
40500
68500
Laboratory /
Office /
Meeting room /
Storage room
etc
Laboratory /
Office /
Meeting room /
Storage room
etc

3D Visualisation



3D Visualisation

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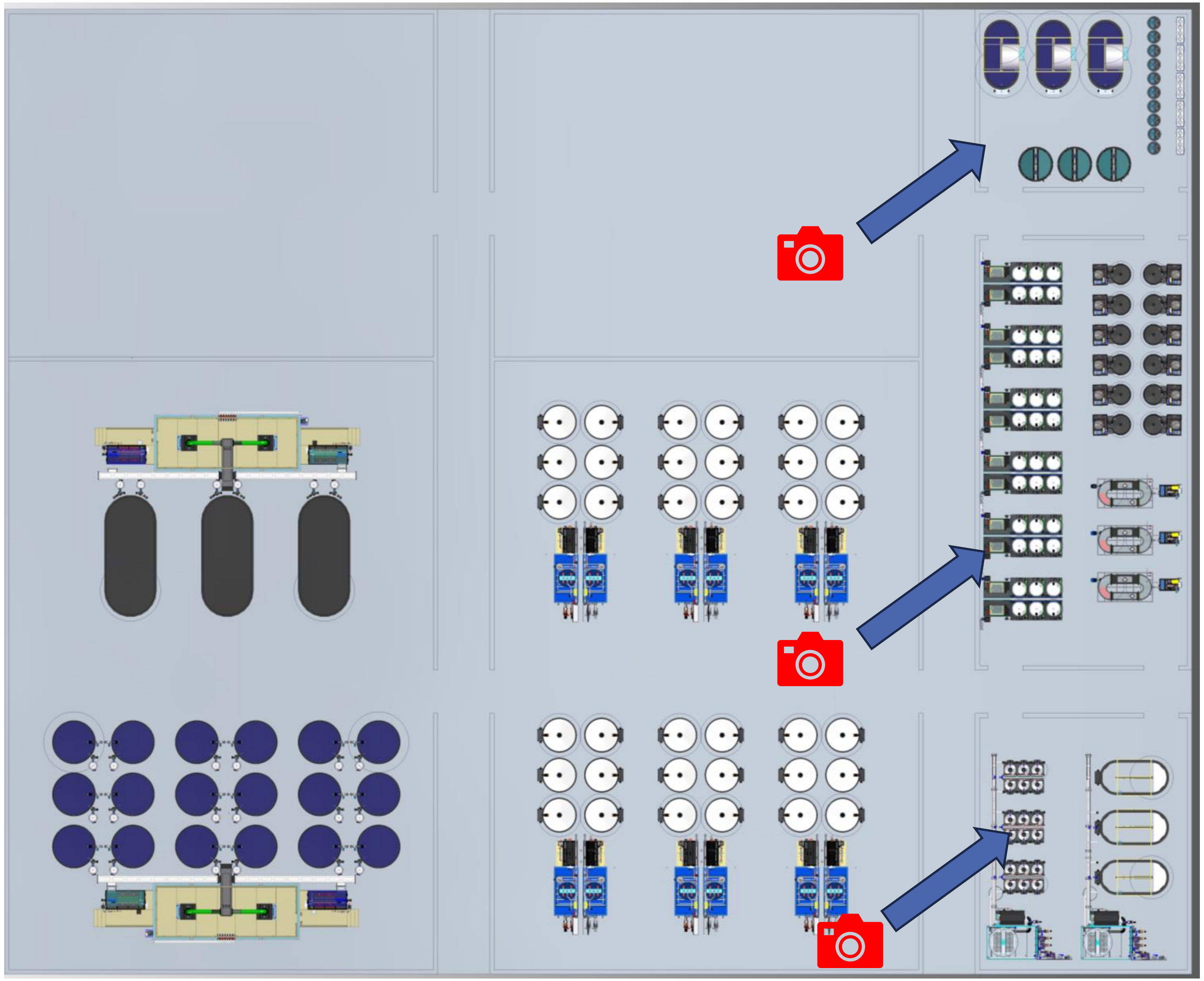
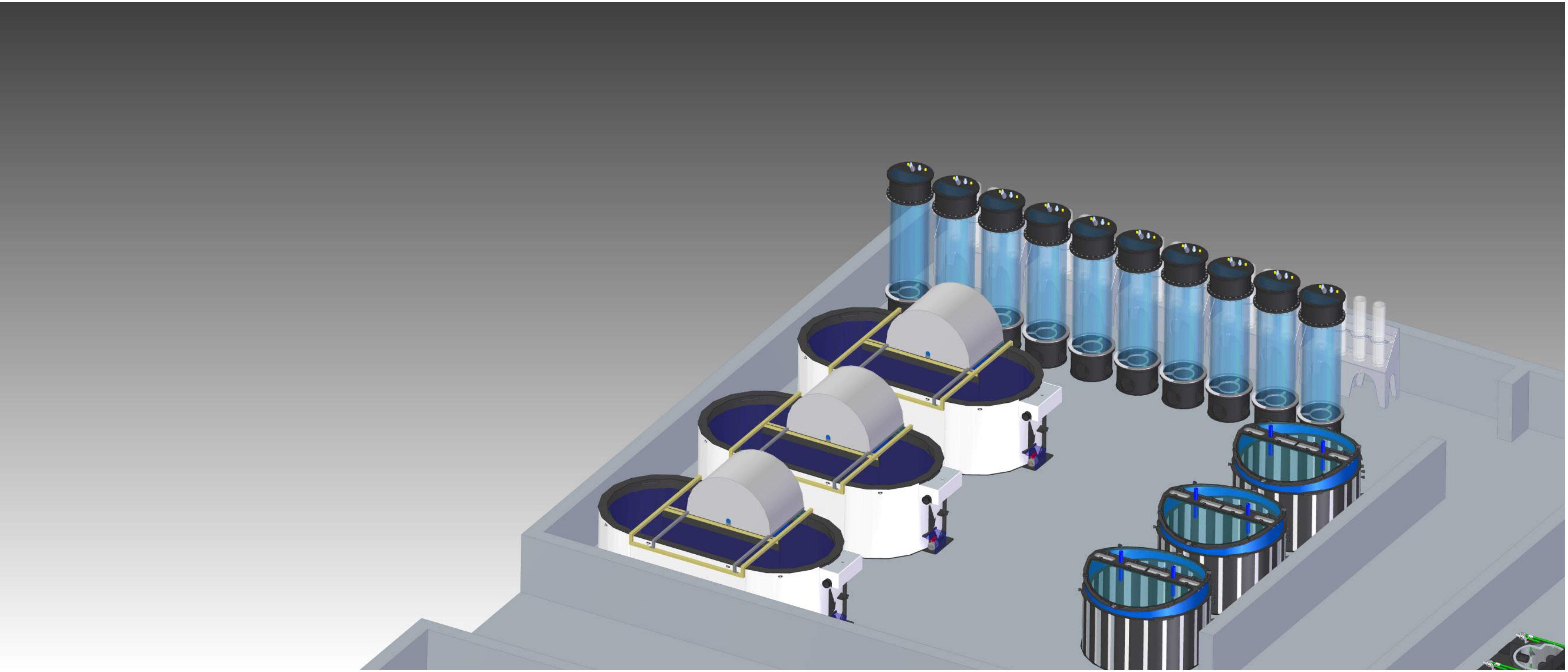
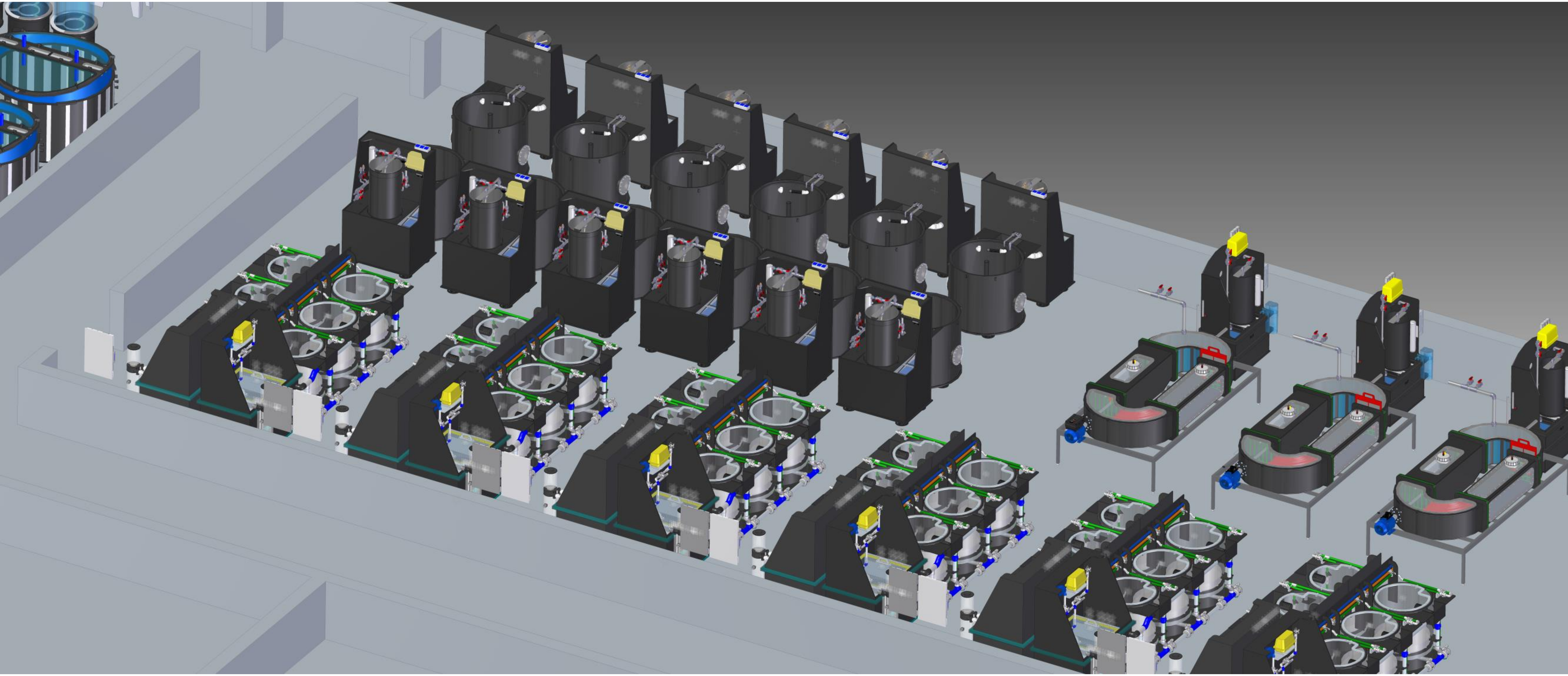


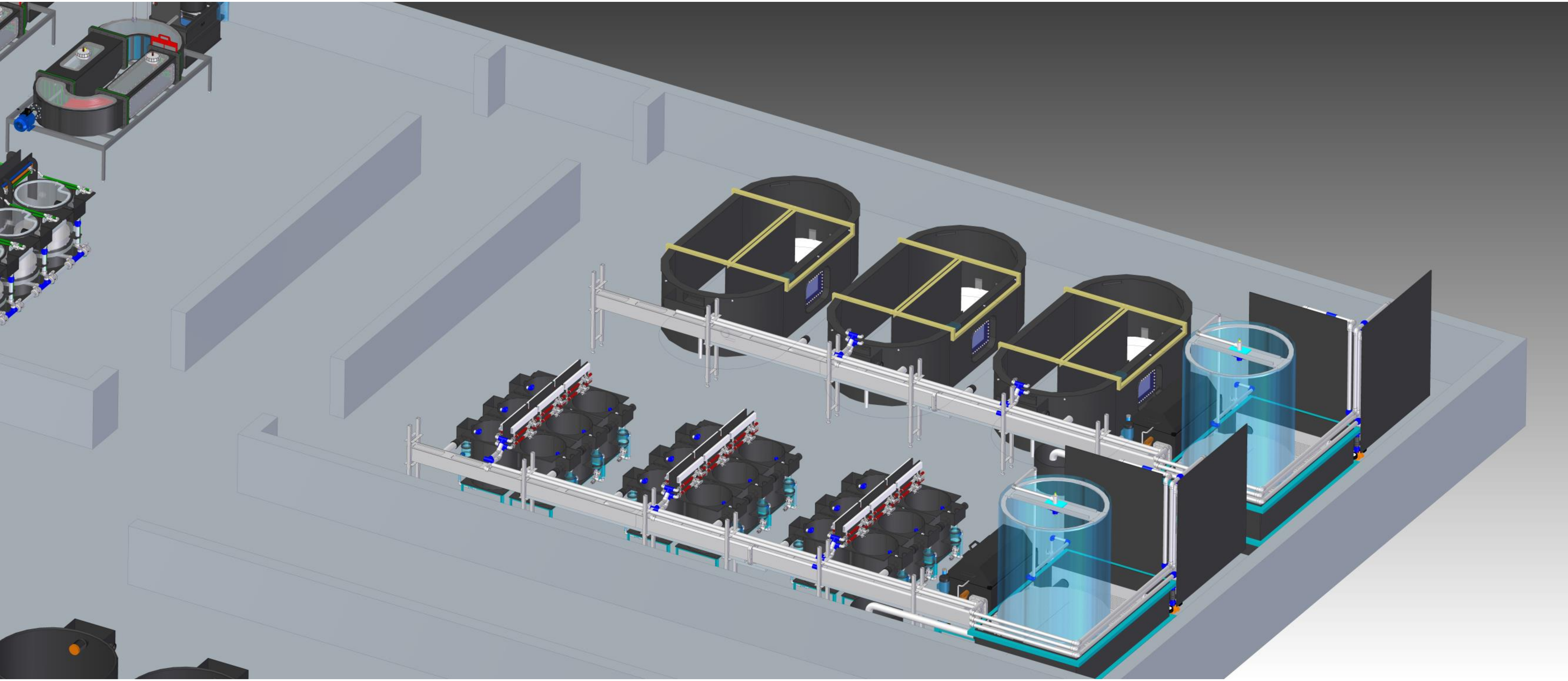
Algae Area



Small Area 1



Small Area 2



3D Visualisation

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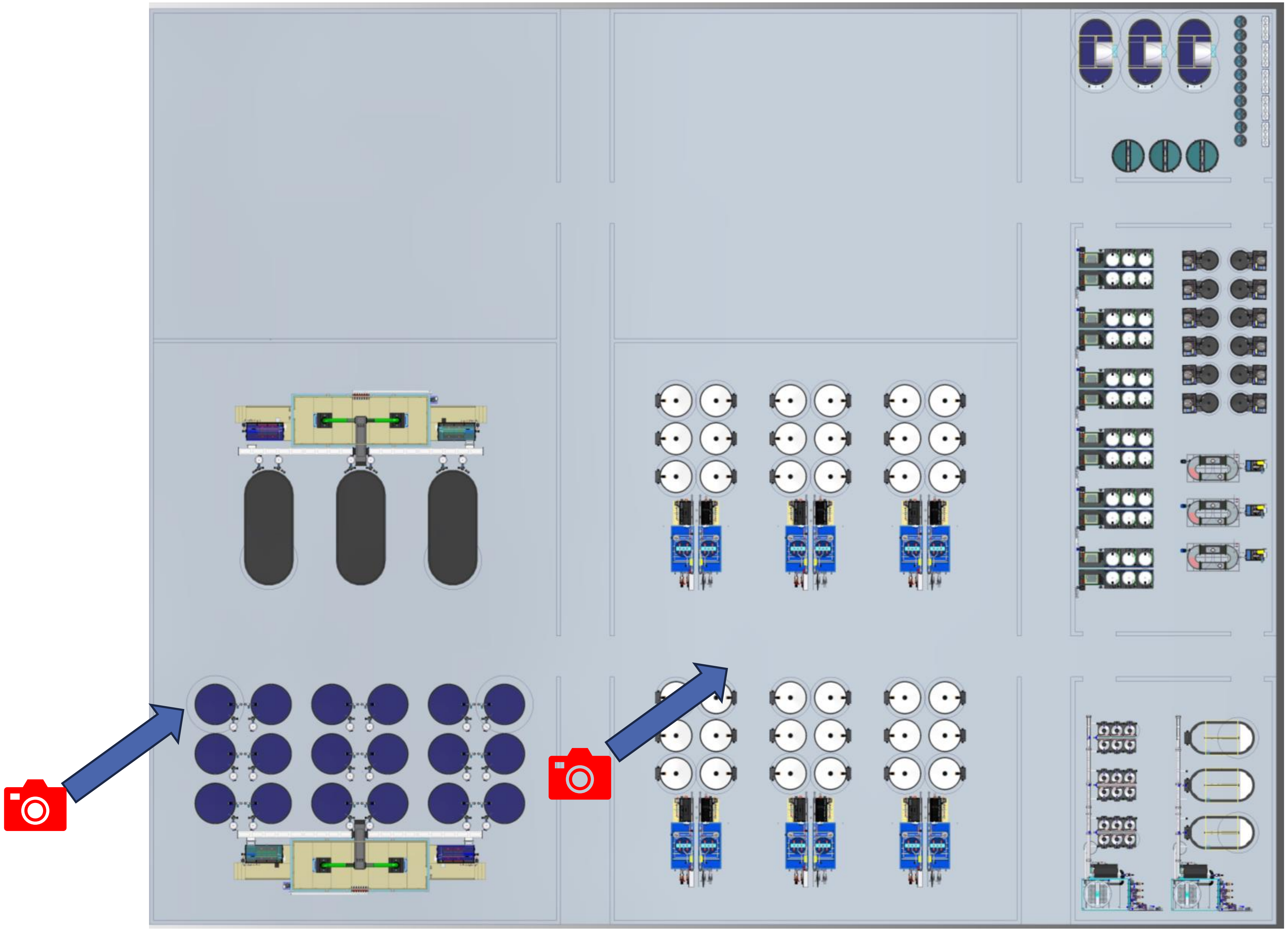
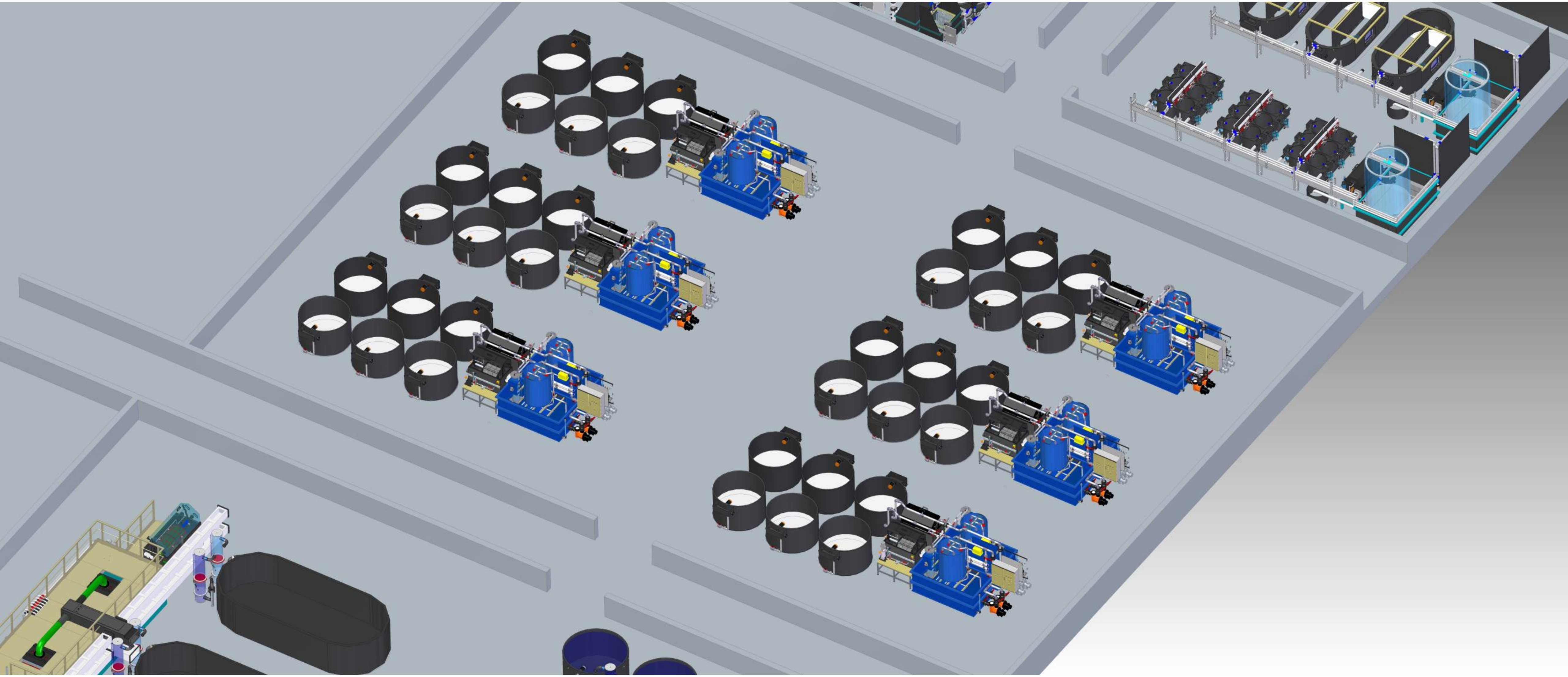
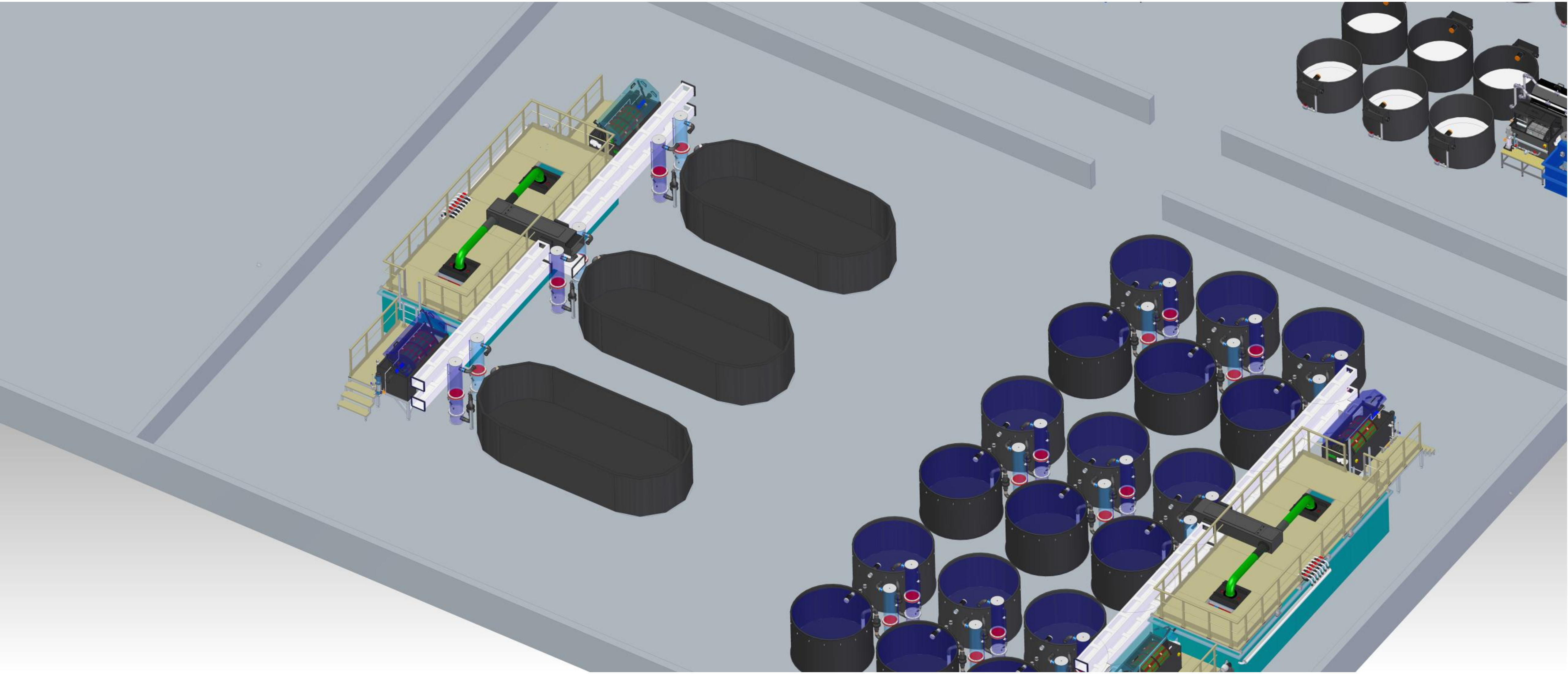


Medium Area 1

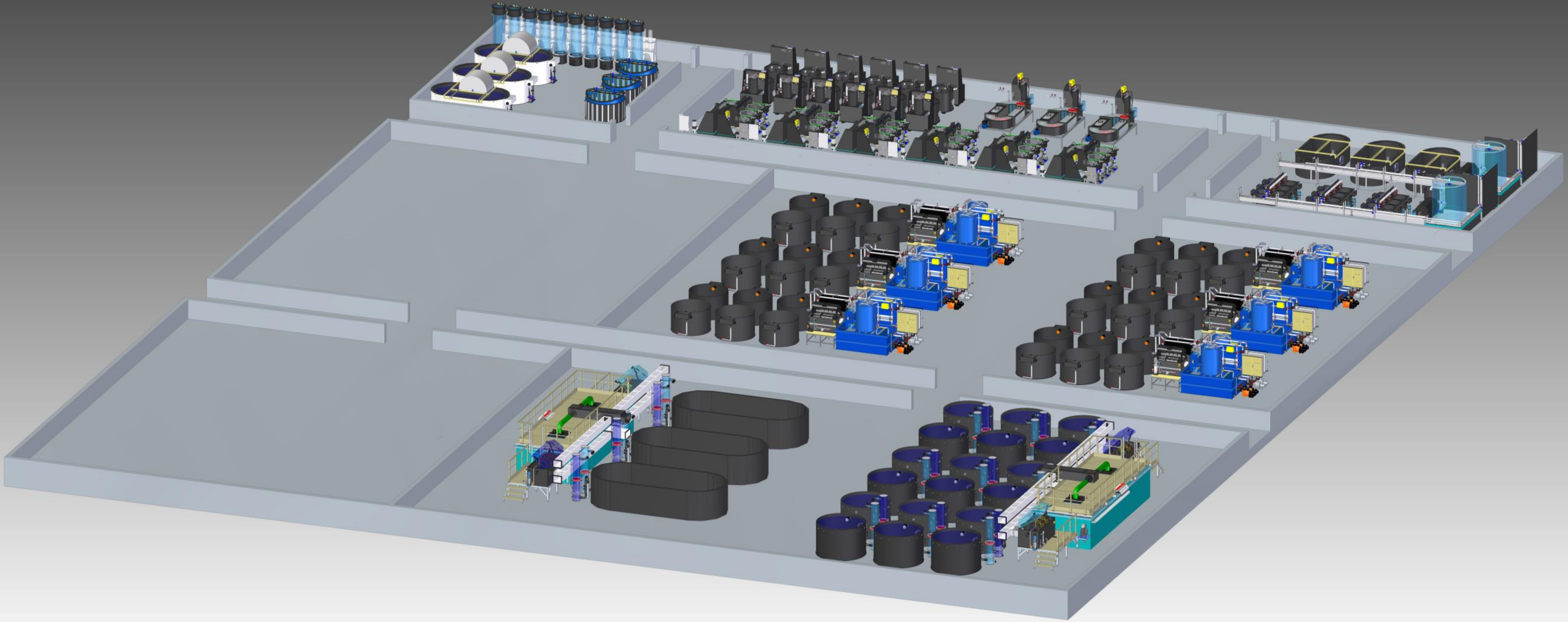


Medium Area 1

SAGA AQUA



3D Visualisation



3D Visualisation – Entire Facility

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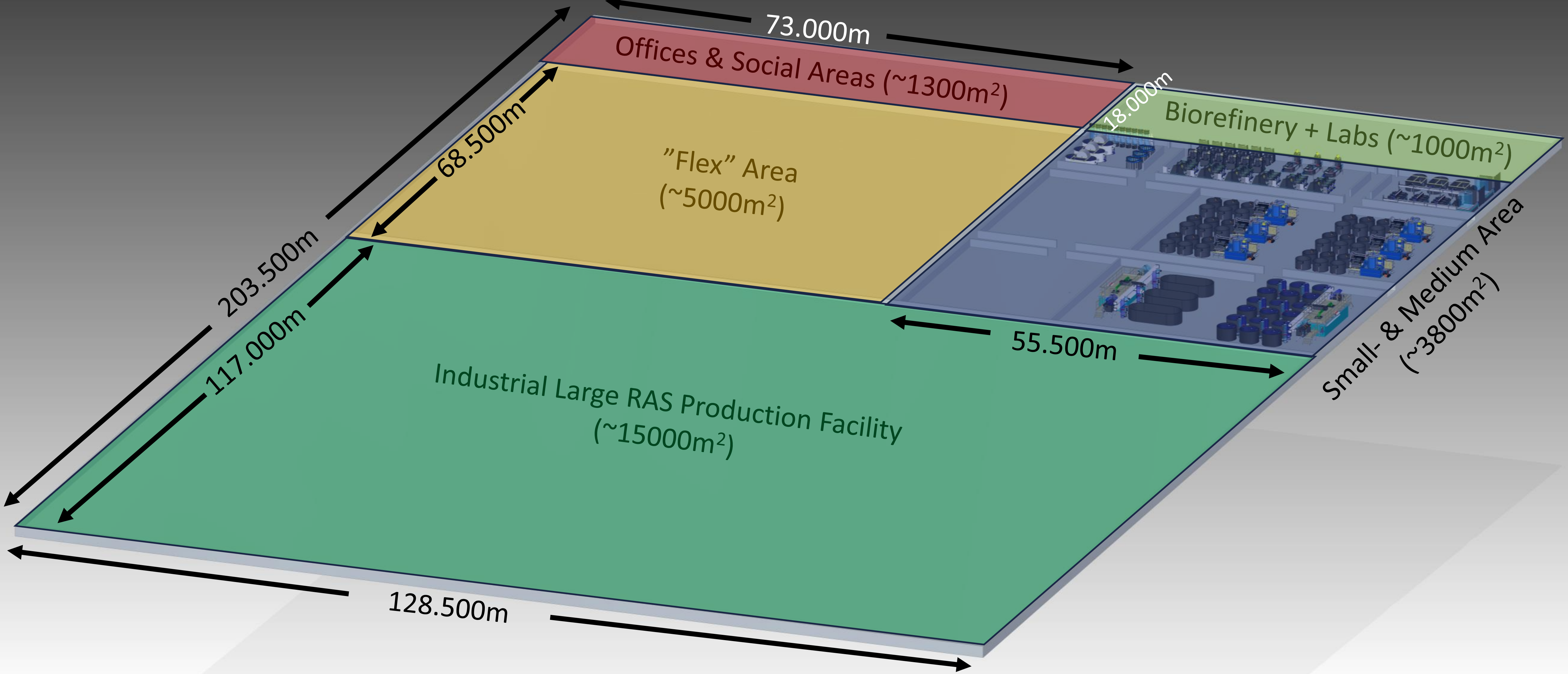

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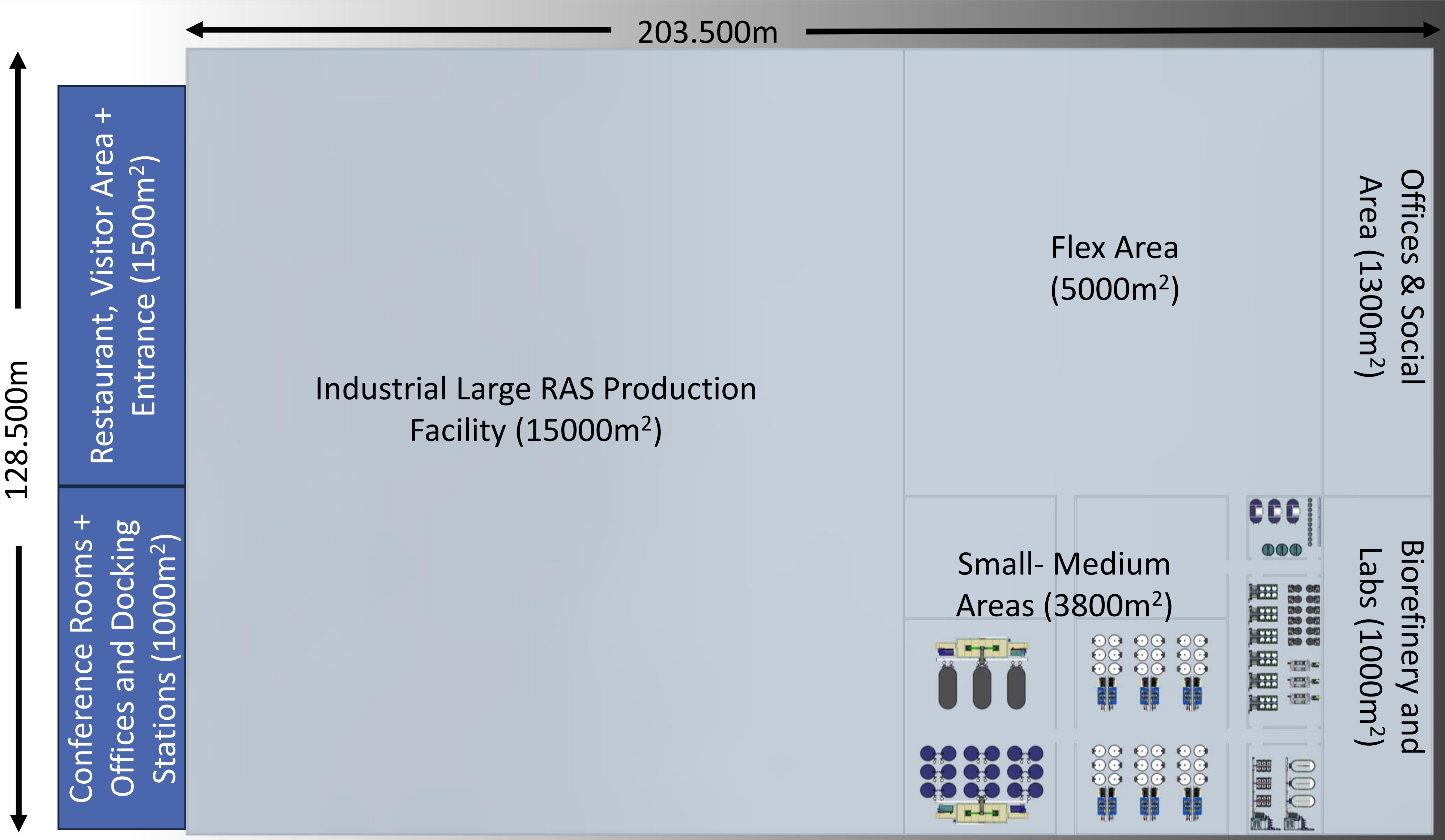

203.500m

128.500m

Restaurant, Visitor Area + Entrance (1500m^2)

Conference Rooms + Offices and Docking Stations (1000m^2)

Industrial Large RAS Production Facility (15000m^2)

Flex Area (5000m^2)

Offices & Social Area (1300m^2)

Small- Medium Areas (3800m^2)

Biorefinery and Labs (1000m^2)

So when do we cut the ribbon? ☺

Write your own Saga