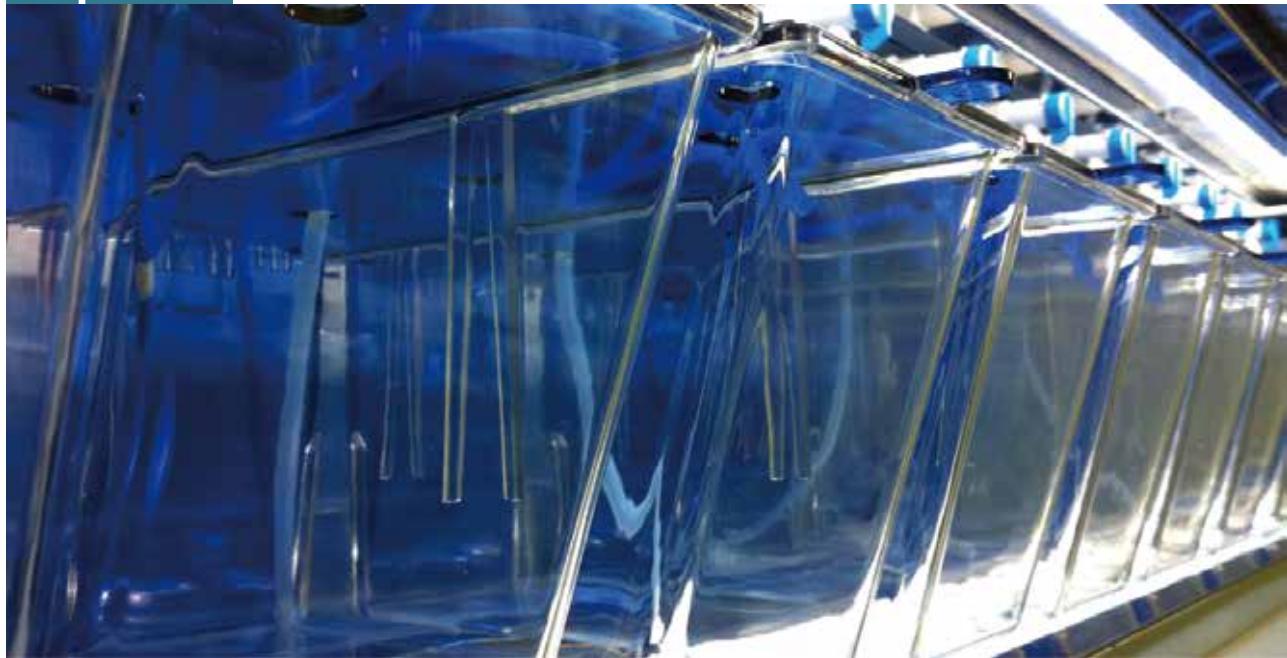


Application  
Biology Teaching, Toxicity Testing  
Embryo Research, Drug Screening

# Zebra Fish Housing System



[ZOONLAB]  
ANIMAL HUSBANDRY EXPERTS

# ZOONLAB

ZOONLAB provides complete service such as aquaculture system, filtration equipment, UV sterilizer, etc. We always focus on the development and manufacture of high-quality equipment and have a variety of customized services.

## 01

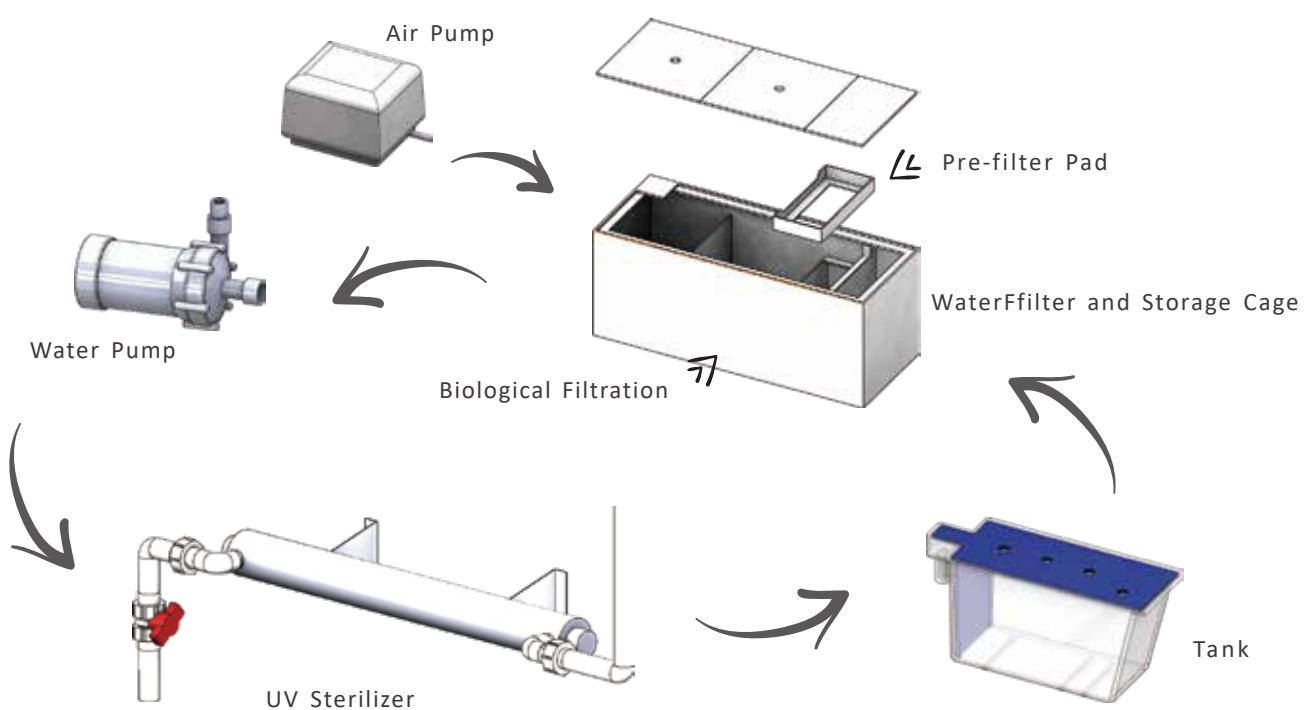
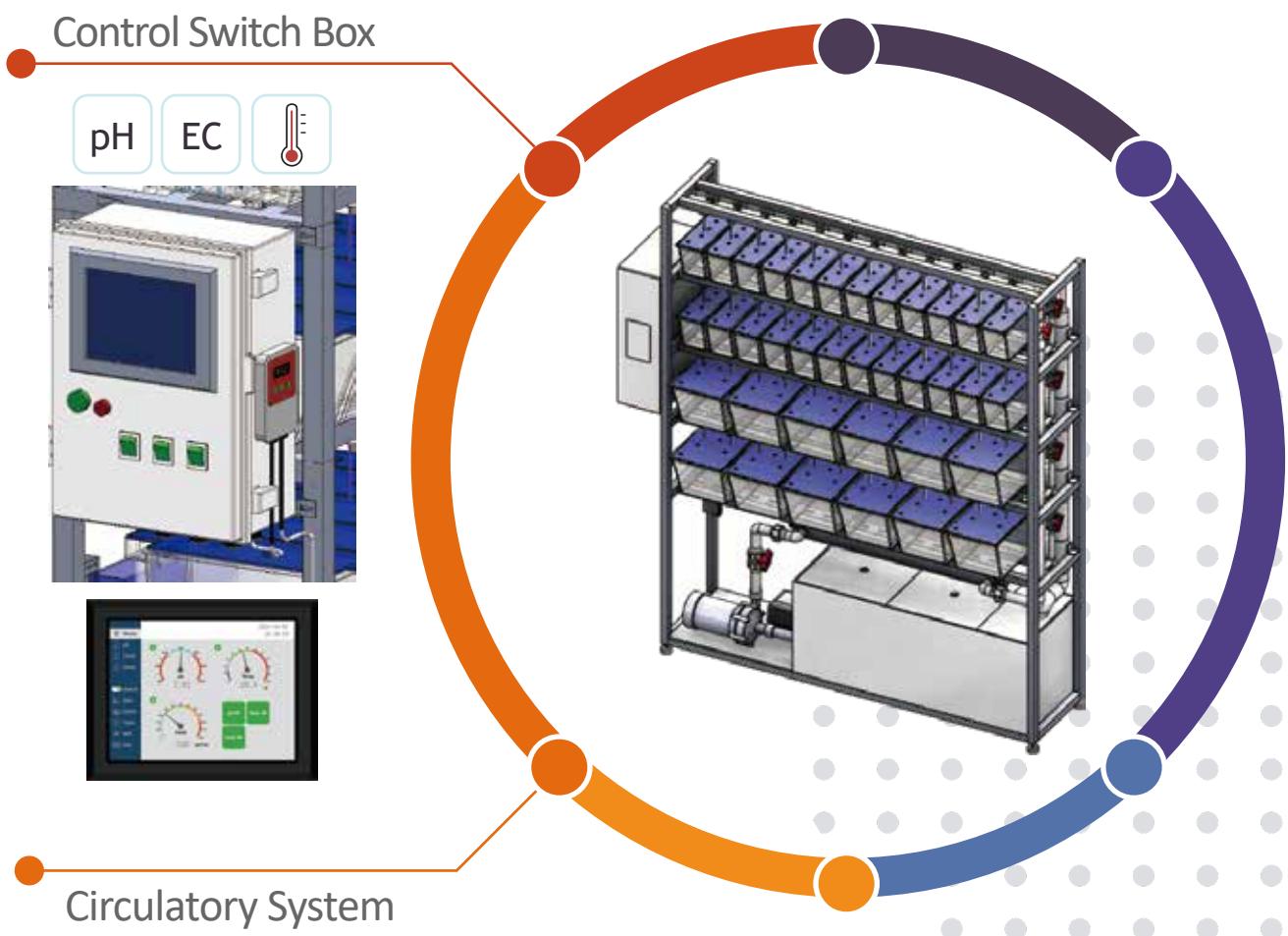
### Zebrafish

Zebrafish is the animal model for genomic and develop research. There are many tissues and organ system are similar to human, eg. Heart, bones, pancreas and kidneys. The development of zebrafish embryos is particularly suitable for physical, chemical and gene engineering study. There are also significant benefits to using transgenic zebrafish at an environmental test. It is easy to breed, has strong fertility, and the genes have been completely decoded. It is a new animal model for vertebrate research and is widely loved by developmental biologists.

## 02

### Animal Model

The zebrafish animal model is being developed for many human diseases, including the nervous system, hematopoiesis, and immune metabolic system. It also can be used for gene knockout and to enhance the discovery and research of new drugs. The transgenic zebrafish can be used as a drug screening model for specific diseases currently. It provides a good research tool and will become an increasingly important tool for drug screening. The gene is quite homologous to humans and there have many mimic human diseases model. The aquatic characteristics are convenient for direct dosing. It popular in cancer biology, genetics, toxicology, new drug development, etc. There are more labs have been established setting zebrafish system.





- Touch panel
- Basic function : flow pump control, air pump control, UV sterilizer control, light control, heater, timer
- Alarm : when system abnormal situation occurs, it will release an audible alarm
- Low water level alarm : when the water is below the setting level, it will stop water pump and heater running.
- UV Sterilizer. It is linked with water pump. When the water pump is off, the UV sterilizer can not be activated.
- Option function : pH/EC monitor or control system
- Custom-made system available.



Suitable for Remote Control,  
Biological/Environmental Monitoring,  
Big Data Analysis,  
Multiple Device Management



# CONTROL SWITCH BOX

- | Material: polycarbonate (PC), it is for FDA approval food grade.
- | Can auto-clavable
- | The parts are movable and easy to clean and observe.
- | There has a varied size tank, it can be selected according to the experimental.

**01**

### CLASSIC - pipe

Size: 1.5L, 3L, 10L.

Features:

- | Most common in the world.
- | Easy to clean
- | It good to use in drugtest by single
- | Convenient to storage
- | Water injection by pipe
- | Suitable for small and medium fish



1.5 L



3L



10L



3L      1,5 L

Baffle for Larvae

**02**

### NEW - pipeless

Size: 3L, 4L, 8L, 10L.

Features:

- | Water surface defoam function.
- | Direct piped water can mix well with air.
- | Circulation every 7 to 10 minutes can clean the excrement.



4L-Tubeless flow



8L-Tubeless flow



3L-Tubeless flow

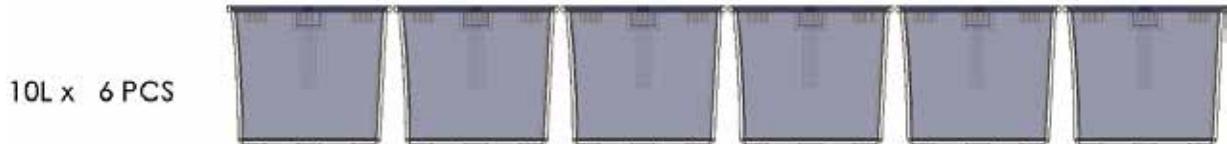


10L-Tubeless flow

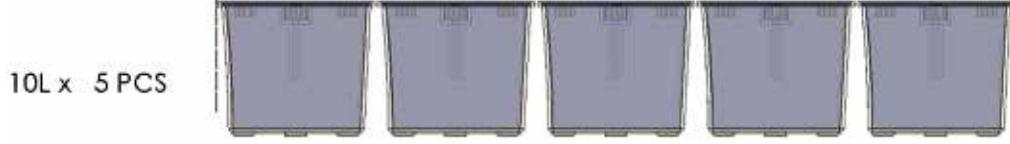
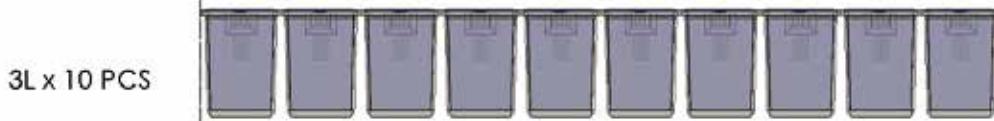
**TANK**

## Fish tanks size comparison

### Standard length



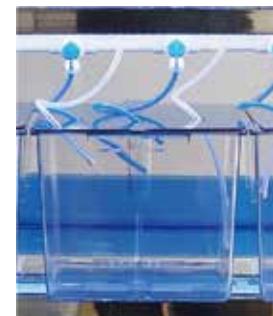
Unit: mm



Unit: mm



Unit: mm



# MATING TANK SET

## 2L Mating Tank Water Yield:1.5L

Features:It can use more fish to mating and can be used with the 3L tank.

Material: Polycarbonate (PC)

Outside Box:L 225mm x W 111mm x H 125mm

Inside Box:L 215mm x W 105mm x H 100mm

Kit Content: Ouside box, Insidede box, Lid, Baffles



## 1.2L Mating Tank Water Yield:1L

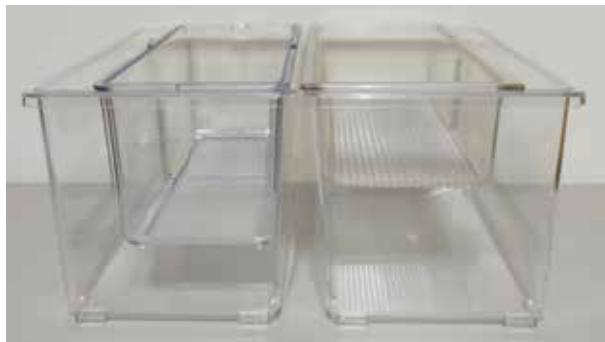
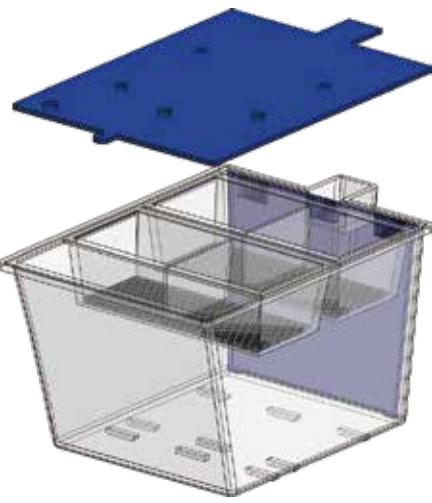
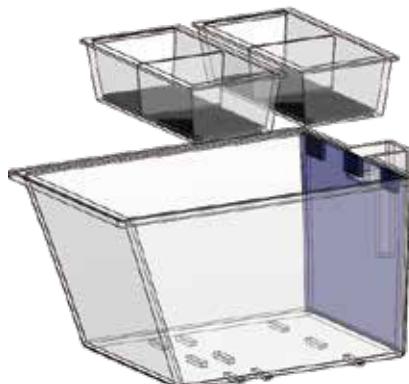
Features:Less water for mating and can be used with the 3L tank.

Material: Polycarbonate (PC)

Outside Box:L 233mm x W 132mm x H 87mm

Inside Box:L 218mm x W 115mm x H 62mm

Kit Content: Ouside box, Insidede box, Lid, Baffles



# BIOLOGICAL FILTRATION

## CALCIUM & MAGNESIUM ION Active Filter

Biological Filter Media 400 times greater decomposition rate while releasing beneficial trace element ions into the water

1. Provides functional substrate for bacterial colonisation.
2. Easily detached bio-membrane improves metabolism of beneficial bacteria.
3. Decomposes harmful matter such as organics and ammonia-nitrogen.
4. Releases important ions such as  $\text{Ca}_2^+$ ,  $\text{Mg}_2^+$ ,  $\text{B}_3^+$ ,  $\text{Zn}_2^+$ ,  $\text{Li}^+$  and  $\text{Al}_3^+$ , as supplement of nutrient



## FAR INFRARED-RAYS ACTIVE FILTER

Improves water quality to enhance the health and vitality of aquarium fish.

1. Decreases the size of water molecules.
2. Promotes well-being and good metabolism in fish.
3. Supports good body colour and long-life of fish.
4. IR Radiation rate: Up to 85% at 4~12  $\mu\text{m}$ .



## ANION ACTIVE FILTER

Ionic Filtration By ionic charge, removes or neutralises suspended matter including free radicals and pathogens

1. Neutralises suspended solids & other factor conducive to pathogens, providing clarified water.
2. Detoxifies free radicals, promoting good fish metabolism.
3. Provides superior conditions, allowing fish to develop good disease resistance, wound cure, life-span etc.
4. Mineral anion radiation effects reach 6500~7500 ea/ml.



## QUARTZ MEDIA RINGS

The Quartz Ball has an enormous porous surface area for intensive bacterial colonization. Made from natural lava rock processed under high temperatures, this media can be used in the biological filtration system of both fresh and saltwater aquariums.



# FEED

○ 50-150 MICRON



Vitellus

for 1w~3w

○ 300 MICRON



Decapsulated Brine shrimp eggs

for 2w~4w

○ 580~910 MICRON



Feed

for adult



Brine shrimp eggs

for adult

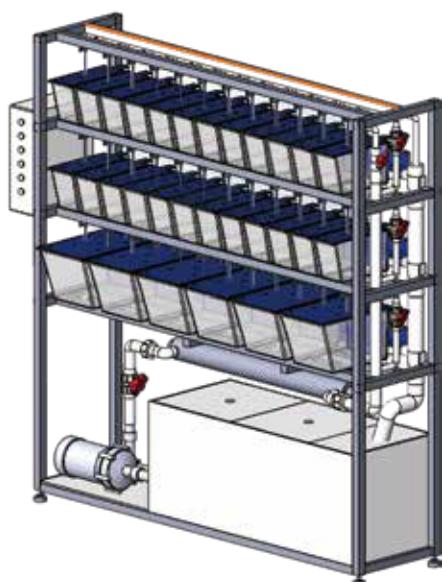
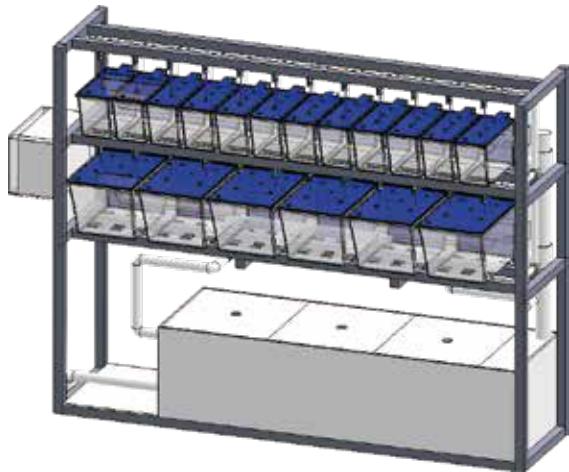


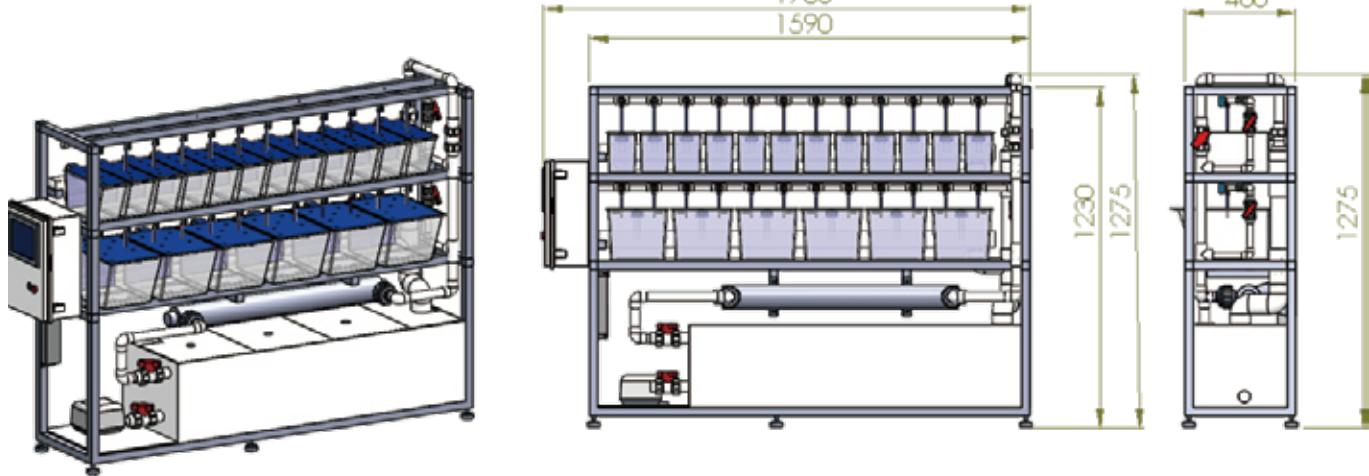
2 liter Harvest shrimp hatchery  
(Hatch max: 15~20 gram brine shrimp eggs)

# SYSTEM

## THE BEST SOLUTION FOR SMALL SIZE LABORATORIES

- Suitable to be used in a cramped space.
- The optimal choice for quarantine, segregation and the small quantity of breeding.
- Equipped with well-prepared and stand-alone circulation and filtration system.
- Option side-mounted filtration system.
- Custom-made system available.
- Standard Configuration :  
Touch panel control system, Water pump, Air pump, Pre-filter pad, Biological filtration  
(option:ceramics bio-media ,Magnesium Ion Filter ,Far Infrared Rays Filter ,Anion Filter ,  
Coral gravels cartridge), UV sterilizer, Heater
- pH/EC monitor or control system

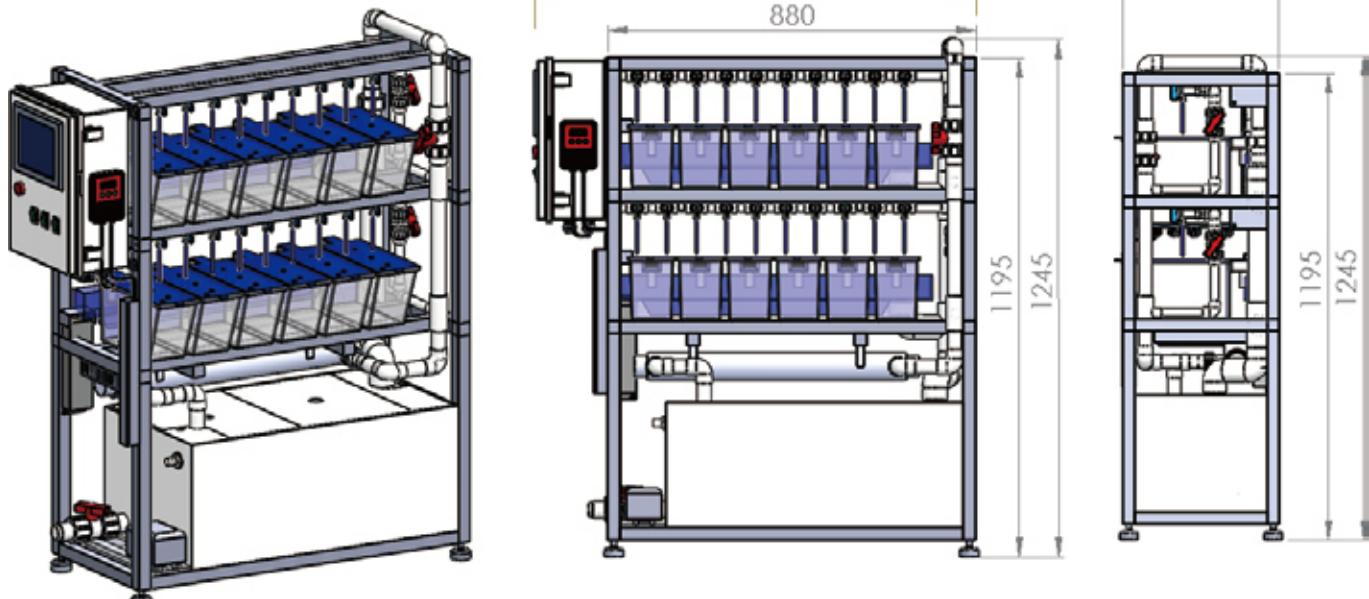




**CL-201-1**  
HMI Controller  
pH., Cond., Temp. Monitor

UV Ster. x 1 PCS  
Water Pump x 1 PCS  
Air Pump x 1 PCS

3L x 12PCS  
10L x 6 PCS

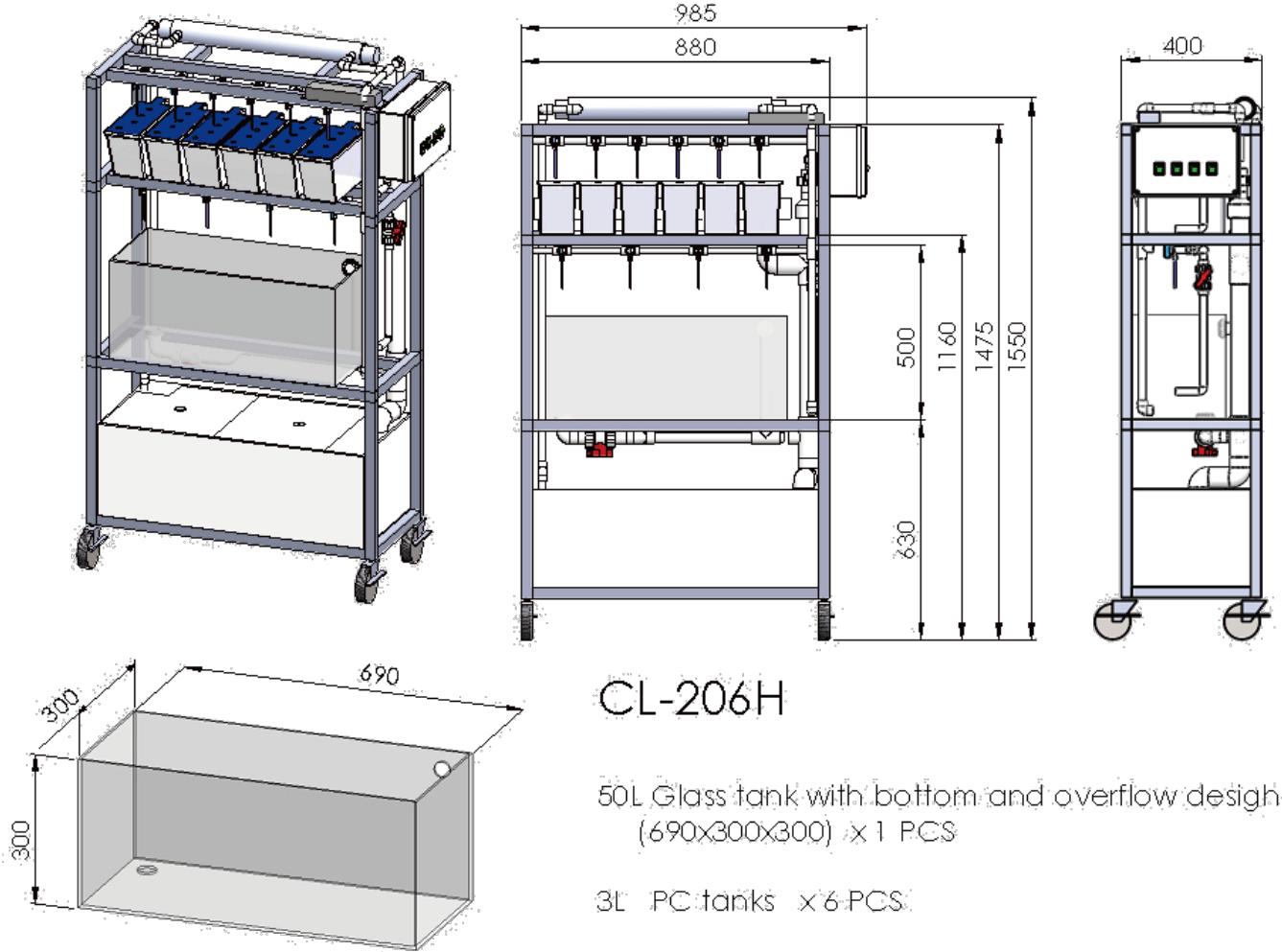


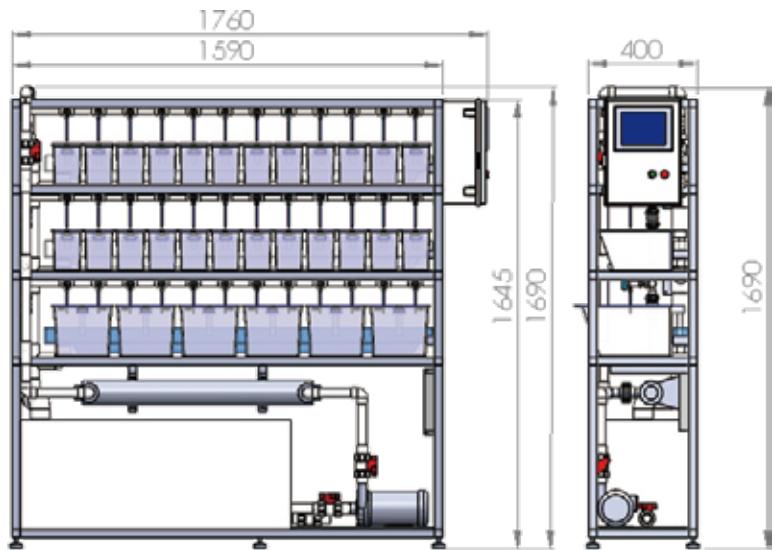
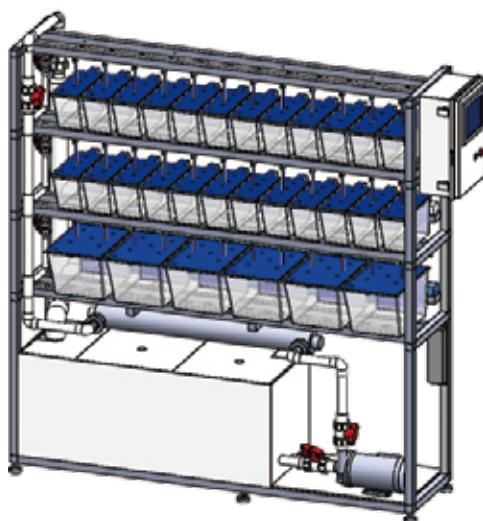
**CL-206-2**  
3L x 12 PCS

HMI Controller  
pH., Cond., Temp. Monitor

UV Ster. x 1 PC  
Water Pump x 1 PC  
Air Pump x 1 PC  
Heater x 1 PC

**2 TIER**

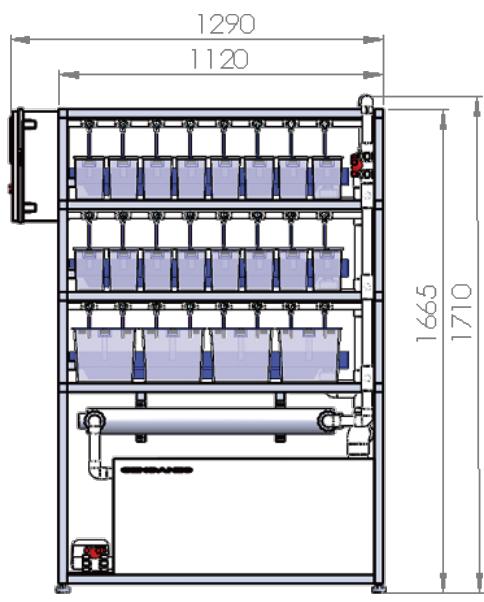
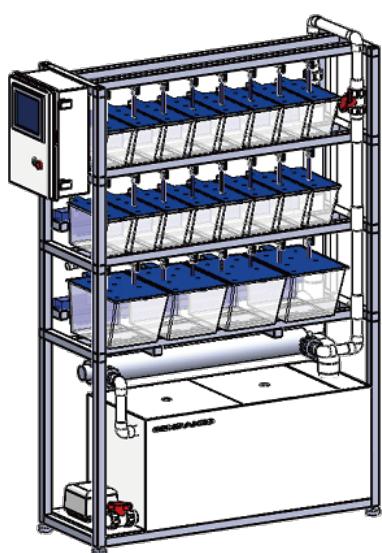




**CL-301-1R**  
HMI Controller  
pH., Cond., Temp Monitor

UV Ster. x 1 PCS  
Water Pump x 1 PCS  
Air Pump x 1 PCS

3L x 24 PCS  
10L x 6 PCS

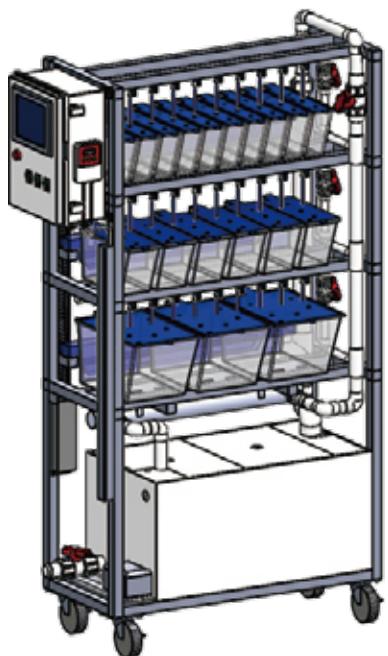


**CL-303-1**  
HMI Controller  
pH., Cond., Temp. Monitor

UV Ster. x 1 PCS  
Water Pump x 1 PCS  
Air Pump x 1 PCS

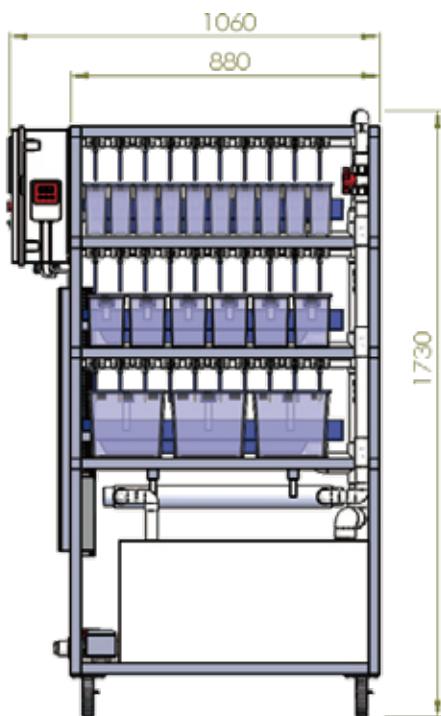
3L x 16 PCS  
10L x 4 PCS

**3 TIER**

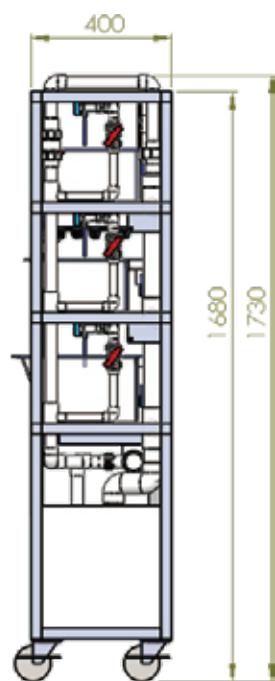


**CL-306-1**

1.5L x 10 PCS  
3L x 6 PCS  
10L x 3 PCS



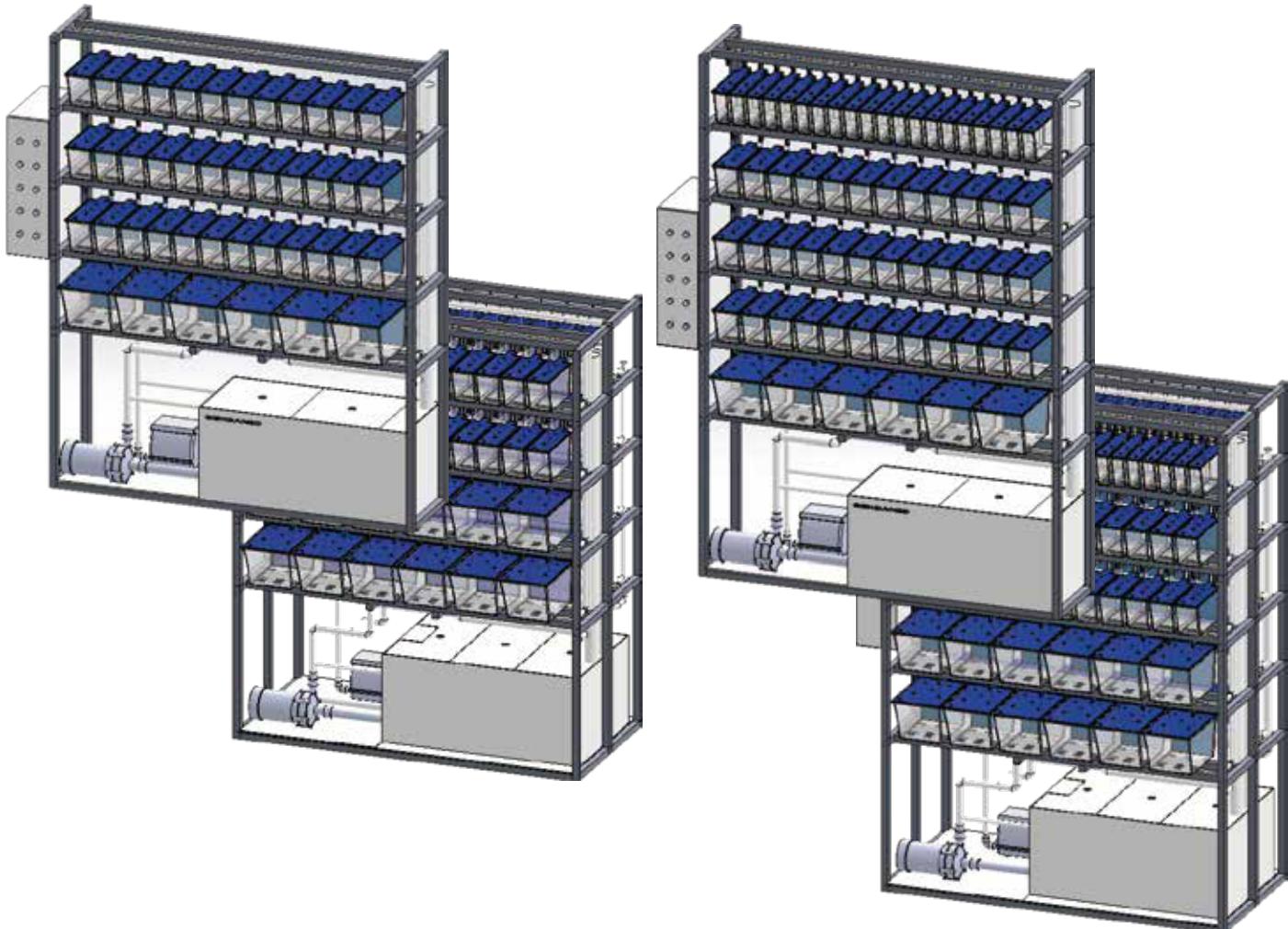
HMI Controller  
pH., Cond., Temp. Monitor

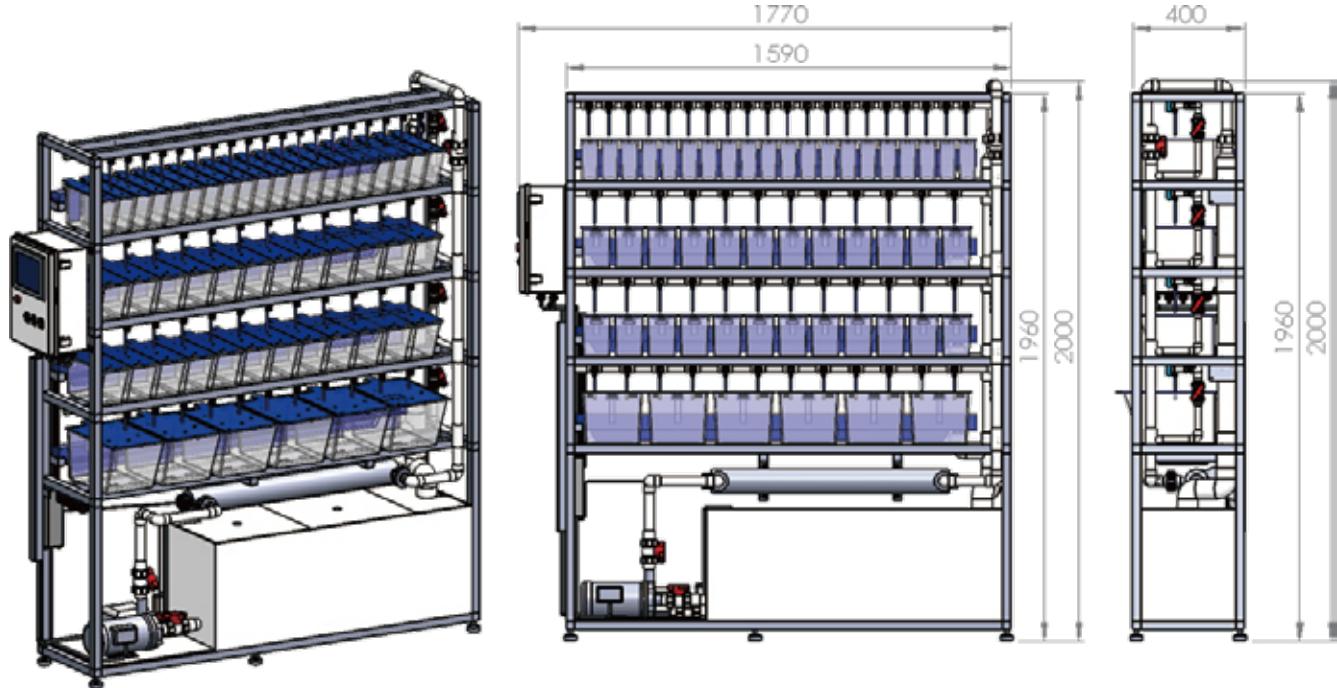


UV Ster. x 1 PC  
Water Pump x 1 PC  
Air Pump x 1 PC  
Heater x 1 PC

# STAND ALONE HOUSING SYSTEM

- Suitable for laboratory scale application.
- Able to undertake quarantine, breeding, and reproduction.
- Equipped with well-prepared and stand-alone circulation and filtration system.
- All filters can be changed without turning off the system.
- An independent water inlet valve is mounted to every layer of the rack and each fish tank.
- Option side-mounted filtration system.
- Custom-made system available.
- Standard Configuration :  
Touch panel control system, Water pump, Air pump, Pre-filter pad, Biological filtration  
(option:ceramics bio-media ,Magnesium Ion Filter ,Far Infrared Rays Filter ,Anion Filter ,  
Coral gravels cartridge), UV sterilizer, Heater
- pH/EC monitor or control system





**CL-401-1**

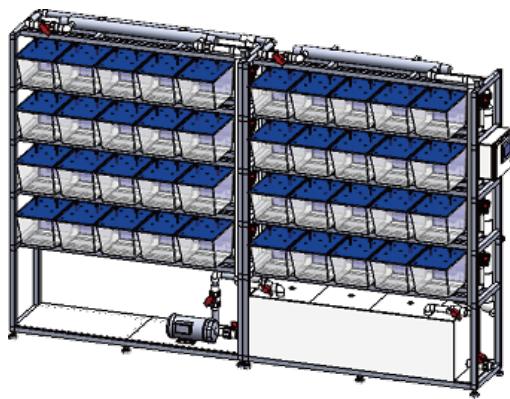
1.5L x 20 PCS  
3L x 24 PCS  
10L x 6 PCS

HMI Controller  
pH, Cond., Temp Monitor

UV Ster. x 1 PC  
Water Pump x 1 PC  
Air Pump x 1 PC  
Heater x 1 PC

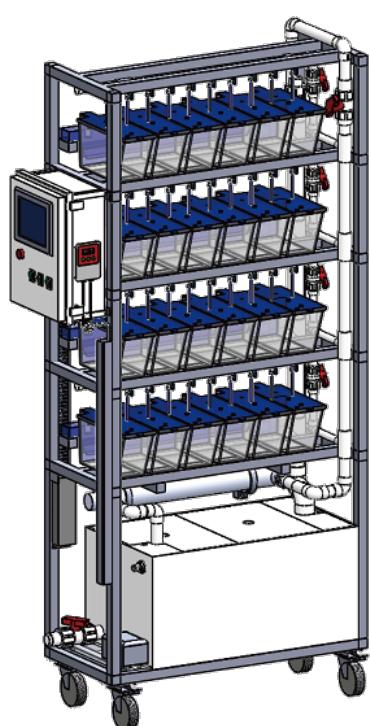
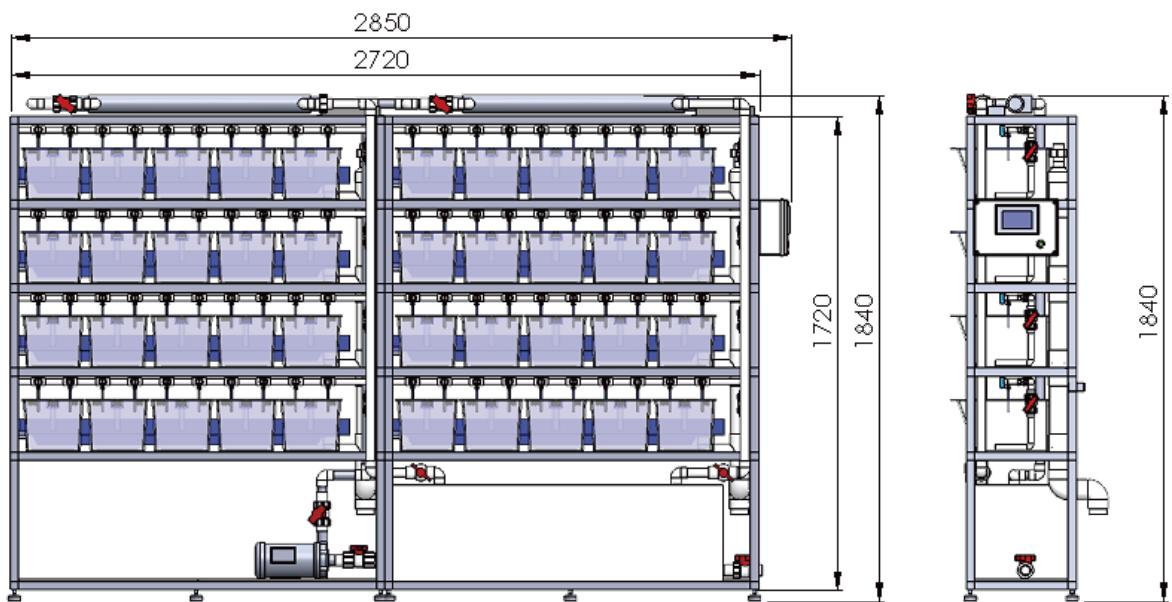
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**4 TIER**



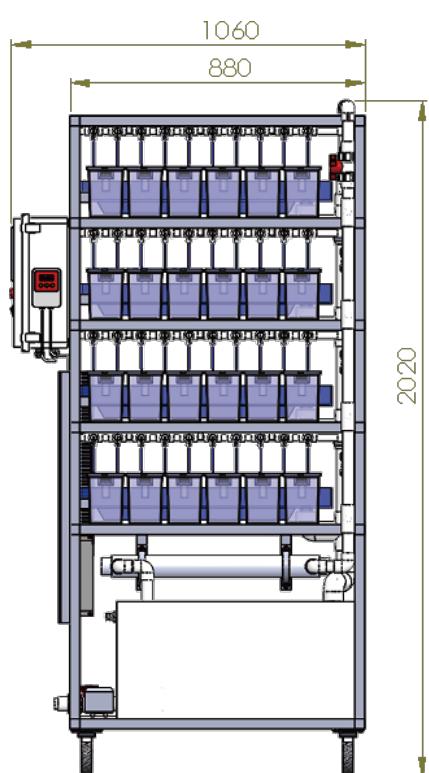
**CL-402LExt-C1**  
HMI Controller  
pH, Cond., Temp Monitor

10L x 40 PCS



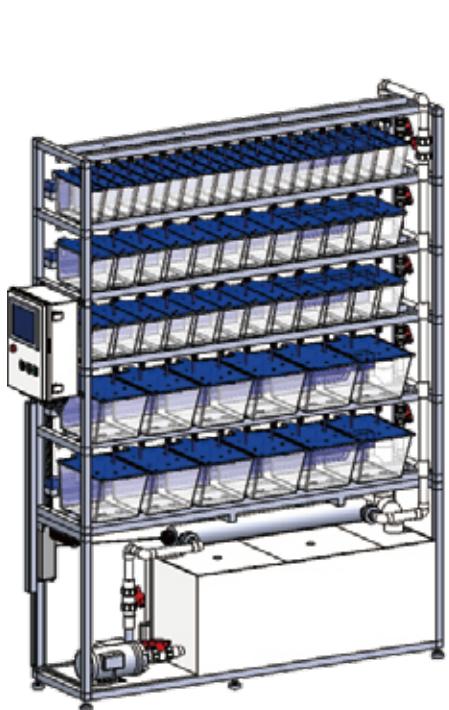
**CL-406-4**  
3L x 24 PCS

HMI Controller  
pH., Cond., Temp. Monitor



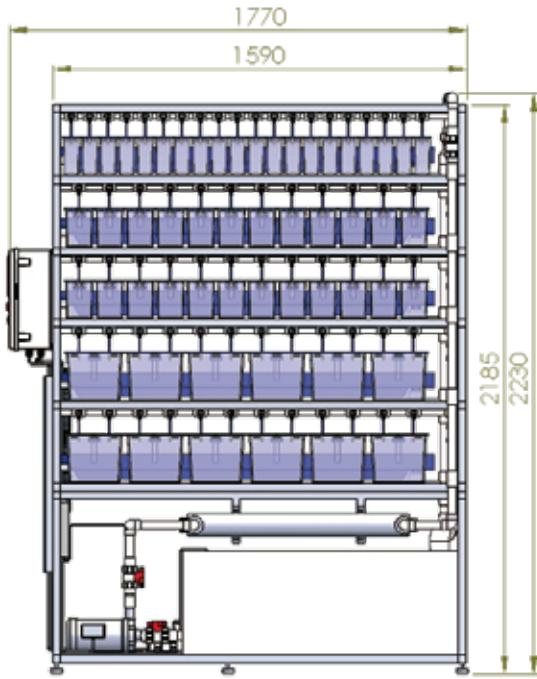
UV Ster. x 1 PC  
Water Pump x 1 PC  
Air Pump x 1 PC  
Heater x 1 PC

# 5 TIER



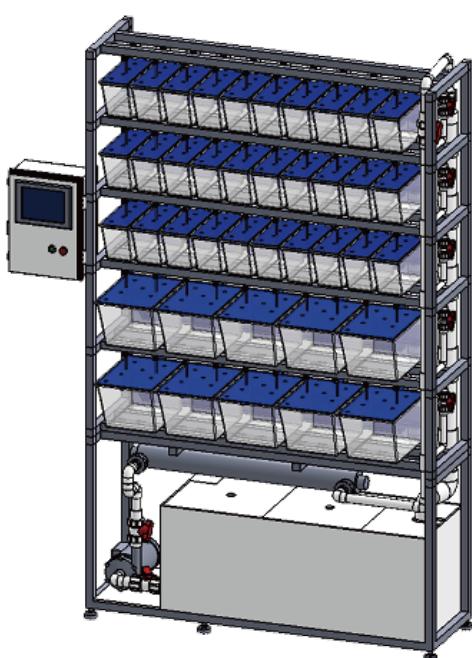
**CL-501-1**

1.5L x 20 PCS  
3L x 24 PCS  
10L x 12 PCS

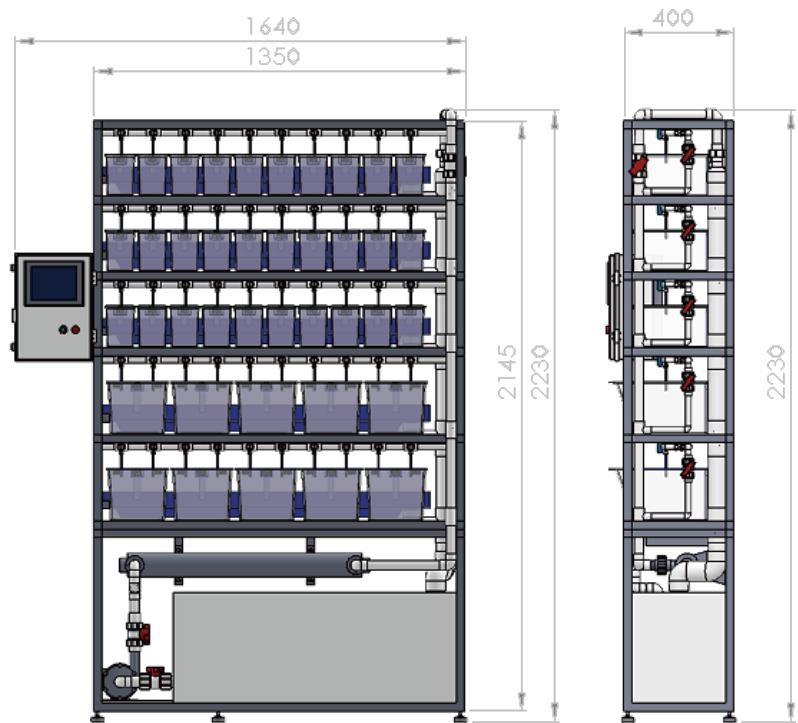


UV Ster. x 1 PC  
Water Pump x 1 PC  
Air Pump x 1 PC  
Heater x 1 PC

HMI Controller  
pH, Cond., Temp Monitor



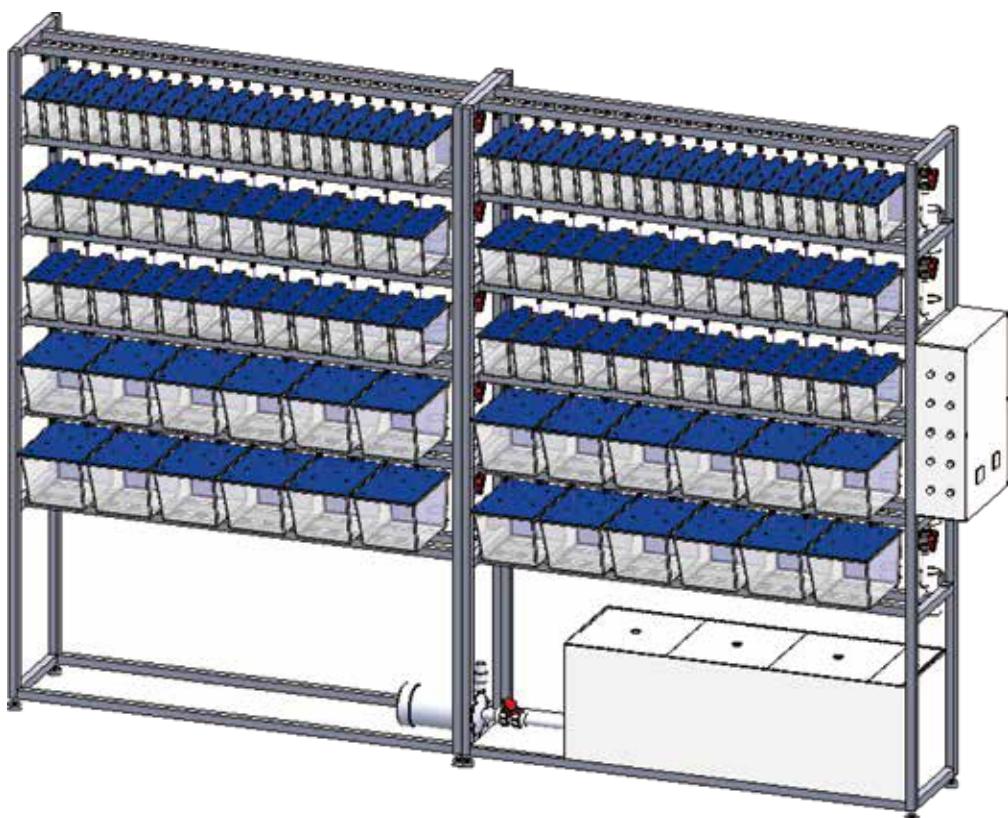
3L x 10 PCS  
10L x 10 PCS



**CL-502-C1**  
HMI Controller  
pH, Cond., Temp Monitor

## MULTI-CONNECTING HOUSING SYSTEM

- Extra large water sump design, able to maintain a stable water quality.
- Suitable for mass breeding.
- Suitable for screening when the tank of a system all using the 1.5L tank.
- Equipped with well-prepared and stand-alone circulation and filtration system.
- All filters can be changed without turning off the system.
- An independent water inlet valve is mounted to every layer of the rack and each fish tank.
- Option side-mounted filtration system.
- Custom-made system available.
- Standard Configuration :  
Touch panel control system, Water pump, Air pump, Pre-filter pad, Biological filtration  
(option:ceramics bio-media ,Magnesium Ion Filter ,Far Infrared Rays Filter ,Anion Filter ,  
Coral gravels cartridge), UV sterilizer, Heater
- pH/EC monitor or control system

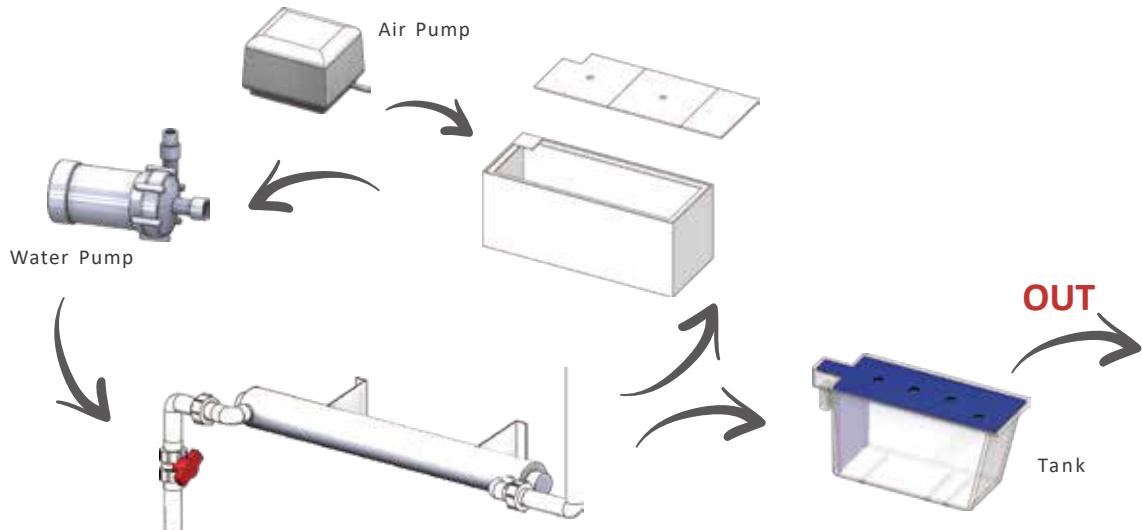
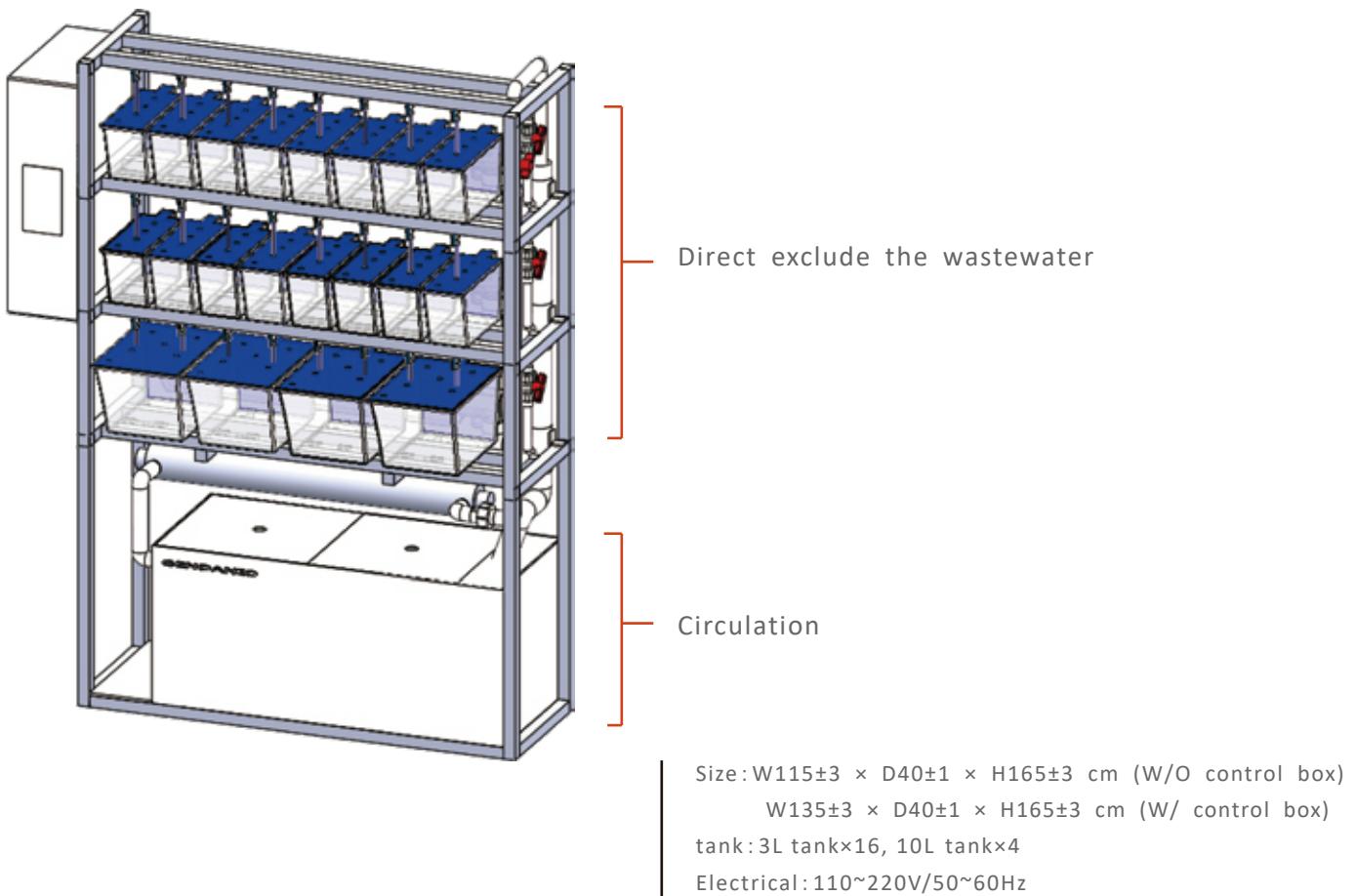


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# MULTI

# INFECTION SYSTEM

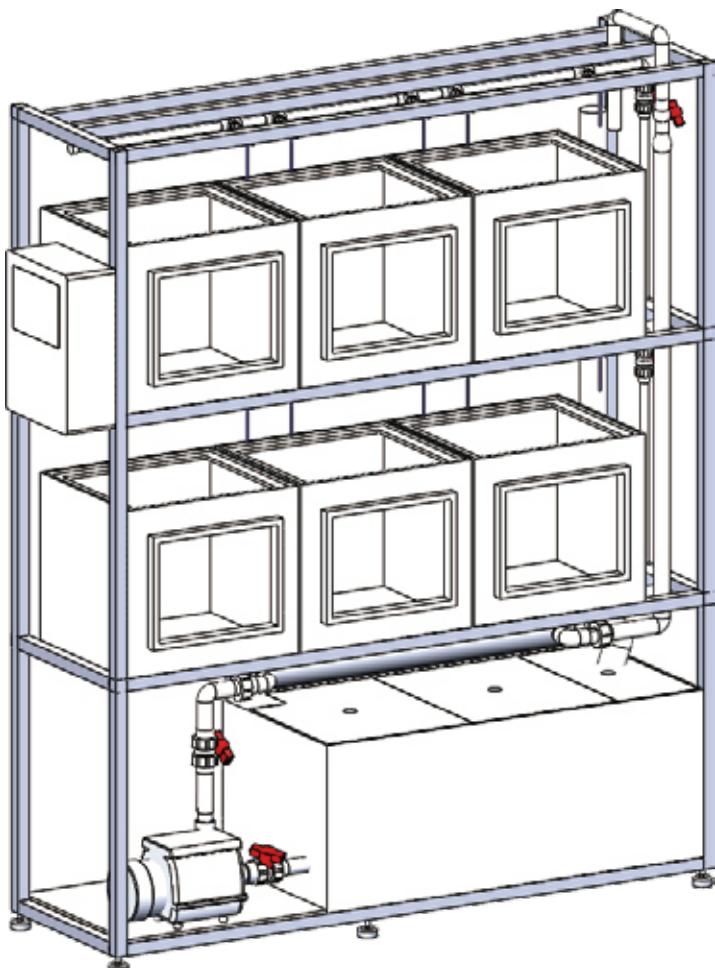
- The system no recirculation that suitable for infection experiment.
- The tank's water will be directed throughout by drainage channel to prevent the infection test affection each other.
- An independent water inlet valve is mounted to every layer of the rack and each fish tank.
- Custom-made system available.
- Standard Configuration :  
Touch panel control system, Water pump, Air pump, UV sterilizer, Heater



# XENOPUS AND MIDE-SIZE FISH HOUSING SYSTEM

- Large display window for a clear viewing of fishes.
- Equipped with well-prepared and stand-alone circulation & filtration system.
- Low water level alarm for water sump.
- Rack material : stainless steel #316, corrosion-resistant.
- Fish tank material : PP, corrosion-resistant.
- Independent water inlet valve.

## Xenopus and Mid-size Fish Housing System



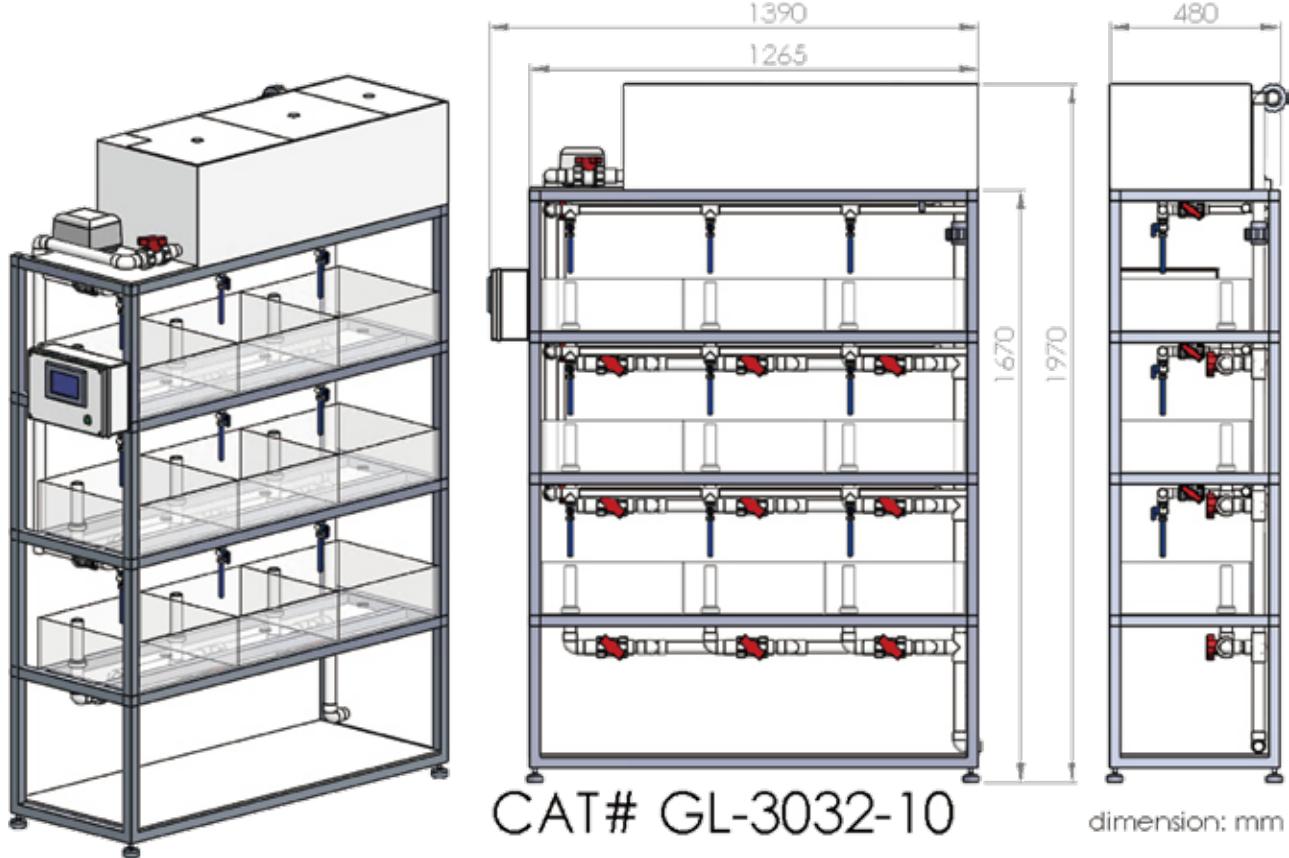
Size: 176 x 63 x 194 cm

Tank : 96L x 4 tanks

Standard Configuration :

Water pump, Air pump, Pre-filter pad, Activated carbon filter, Coral gravels, UV light, Heater.

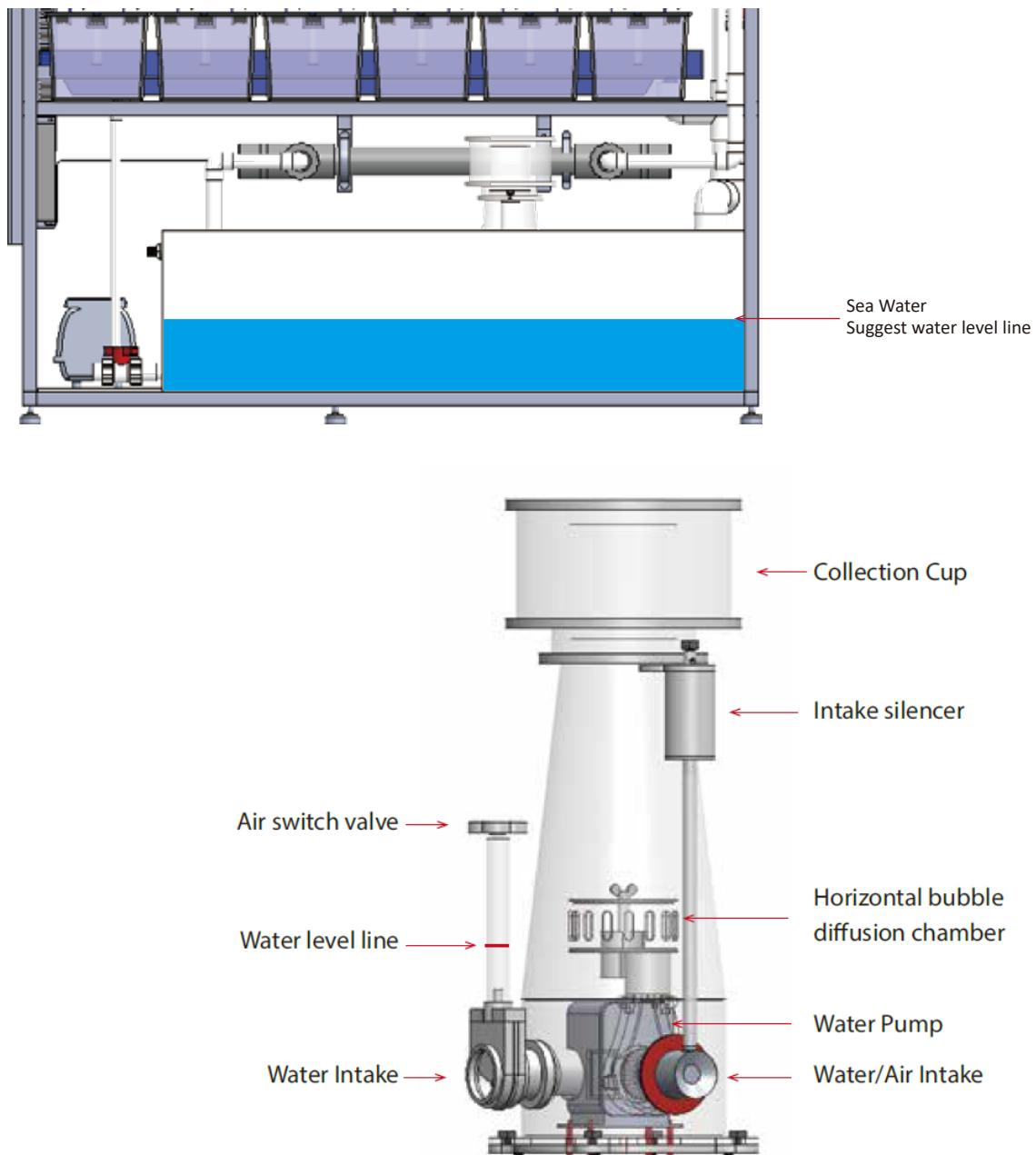




**GLASS  
SYSTEM**

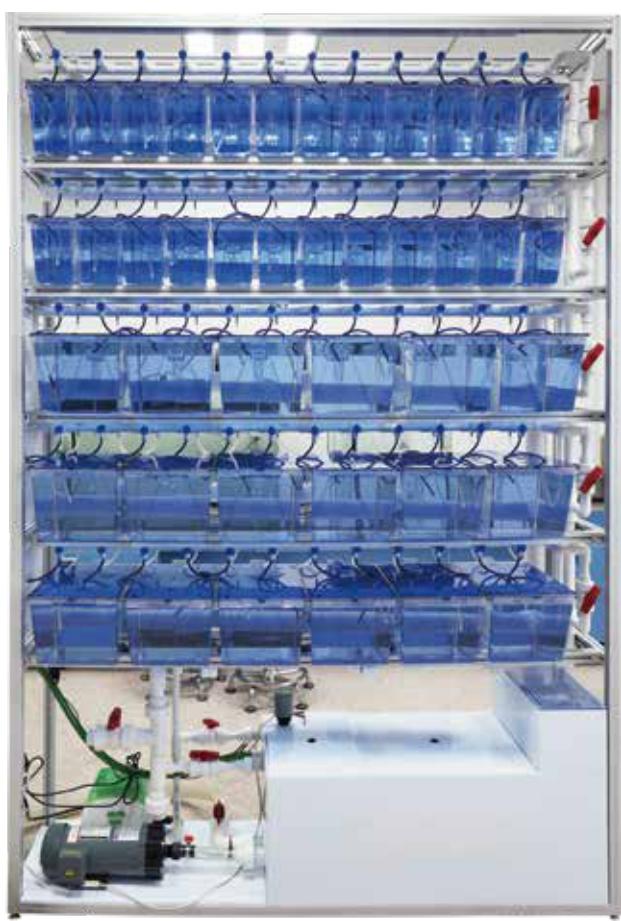
The marine aquaculture environment is a more complex environment than fresh water. Seawater with the addition of mucous membranes or mucus secreted by marine fish, soft, or corals, these components are mainly organic compounds by protein and amino acid. A large amount of  $\text{NO}_2$ ,  $\text{NO}_3$  and  $\text{NH}_4$  will be produced if you do not remove it, and it can pollute the water quality.

A protein skimmer is used to remove waste in the form of organic compounds from the water and also oxygenates the water. Just like a filter, it is used to remove organic compounds from the water. The protein skimmer will make bubbles, which absorb impurities through the surface tension of the bubbles to separate organic waste and keep the water clean.



# PROTEIN SKIMMER

FOR SEAWATER SYSTEM









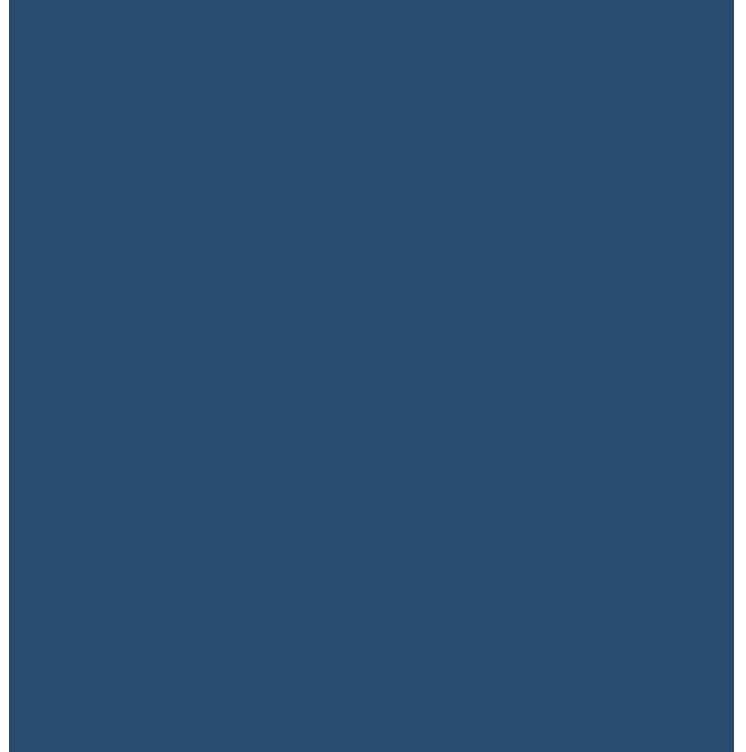












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