



# AQUACULTURE SYSTEM TECHNOLOGY

## INNOVATOR

Pushes the aquaculture industry to industrialization and makes full use of modern science and technology, including mechanical engineering, biology, water treatment chemistry, electromechanical engineering, modern electronic informatics, modern architecture, etc.



EXCELLENT  
PERFORMANCE



HIGH  
TECHNOLOGY



EASY  
MAINTENANCE

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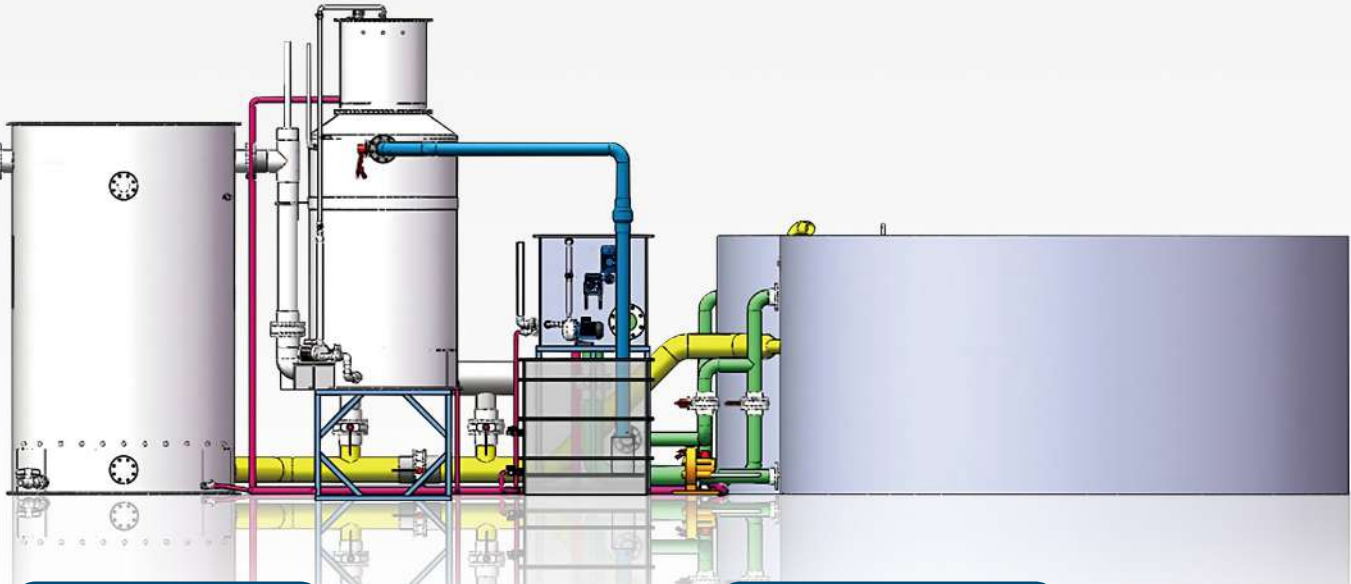
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# RECIRCULATING AQUACULTURE SYSTEM



## Recirculating Aquaculture System Schematic Structure Diagram



### System Features

- ✓ Will not be affected and restricted by natural environment such as climate and water quality changes.
- ✓ High output, low risk, and low investment.
- ✓ Reduce occupy space, reduce energy consumption, reasonable system technology, simple operation, convenient maintenance and low failure rate.
- ✓ Through the strong oxidation of ozone, protein, NH<sub>3</sub>/NH<sub>4</sub>, etc. are converted into substances that are harmless to aquaculture fish.
- ✓ Separate most of the organic matter in the water before it is decomposed into NH<sub>3</sub>/NH<sub>4</sub> and other harmful substances for farmed fish.

### System Introduction

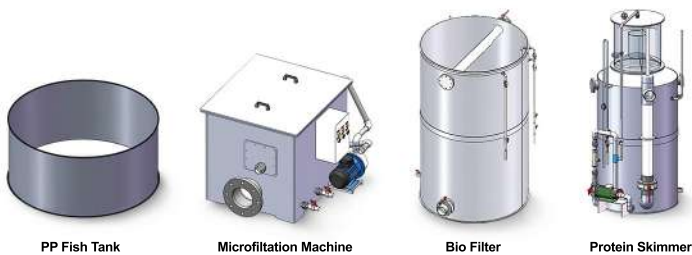
Horbo Recirculating Aquaculture is a model that completely subverts traditional fish farming. It promotes the aquaculture industry to industrialization and makes full use of modern science and technology, including mechanical engineering, biology, water treatment chemistry, electromechanical engineering, Modern electronic informatics, modern architecture, etc. After field surveys, scientific demonstrations and careful design, it has become a highly feasible and customized solution. Through high density and intensive production of aquatic products, the goal of low pollution, low risk, high efficiency and sustainable development in the aquaculture industry will be finally realized.



### Development Recirculating Aquaculture System

Horbo has entered the research, development and construction of RAS (recirculating aquaculture systems). With the joint efforts of a professional technical team led by a senior engineer and a first-class operation and management team, the construction of our own RAS was successfully completed. At the same time, due to outstanding technology and first-class quality, we have provided professional system equipment and processing and operation services for more than ten RAS project, accumulated rich experience in industry operation and management, and made a solid and powerful step in the indoor breeding industry.

### Recirculating Aquaculture System Equipment

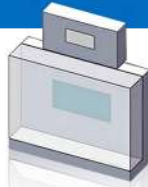


# RECIRCULATING AQUACULTURE PRODUCTION PROCESS



**Ozone Concentrator**

Proper dissolved oxygen is essential for all aquaculture systems because the reduction in dissolved oxygen reduces the appetite of the fish and increases nervousness and mortality.



**Online Water Quality Monitoring**

Real-time monitoring of water quality, automatic remote alarm.



**Rotary Drum Filter**

Effectively remove particles larger than 80 microns, which is necessary to control basic pathogens and water quality.



**Ozone Generator**

Provide the most effective water disinfection at low cost



**Dissolved Oxygen Cone**

High efficient dissolved oxygen ratio, high dissolved oxygen saturation after mixing, oxygen waste reduced, compact volume and easy to operate.



**PP Fish Tank**

Environmental protection materials, resistant to corrosion. Good weather resistance and light weight.



**Protein Skimmer**

Effective removal of dissolved suspended solids such as proteins is very important for ideal biofilters and can be used as an ozone reaction tower.



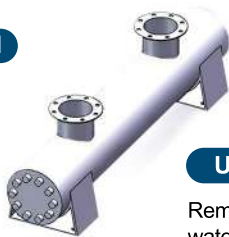
**Bio Filter**

Combines the advantages of the drip filter and the activated sludge process, The biofilm is highly concentrated, and the conversion performance of ammonia nitrogen is increased by 2 to 4 times. It has functions such as biological filtration, backwashing, and sewage discharge.



**Temperature Control**

Effectively control the temperature of water.



**UV Sterilizer**

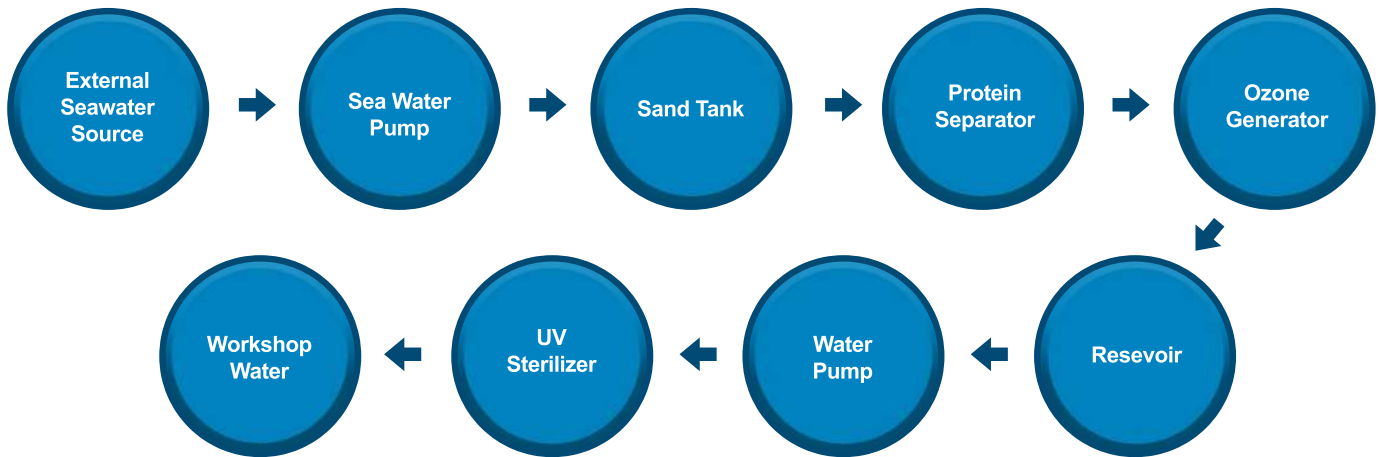
Removes ozone residues, and the water from biochemical flows through UV, killing some harmful bacteria by ultraviolet light.



**Bio-Media**

Extremely high removal capacity due to maximized concentration of active biomass in smallest possible reaction volume.

# RAW WATER TREATMENT SYSTEM



## System Description

- ✓ It ensures the safe use of aquaculture water. It effectively kills all kinds of harmful bacteria, viruses and algae in the water source. It avoids the use of chemical drugs. Its disinfection capacity is 2.7 times that of chlorine dioxide and water treatment time is 20 times faster than chlorine dioxide.
- ✓ It effectively removes harmful substances such as protein, ammonia nitrogen, non-ionic ammonia, nitrite, nitrate and suspended solids in raw water with high efficiency and low energy consumption.
- ✓ It has fully automatic control of equipment, remote alarm for faults. It has small footprint and is simple to operate and easy to maintain.
- ✓ It is applicable to pre-water treatment in aquaculture water, hydration in a factory-circulating aquaculture system, seedlings for fish, shrimp, sea cucumber, water for standard and coarse water, water for high-level ponds, white shrimp culture, etc.



# RAW WATER TREATMENT SYSTEM



HRWTS 20 / HRWTS 300



EXCELLENT PERFORMANCE



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EASY MAINTENANCE



## Product Features

- ✓ All in one design, space saving, built-in electric control cabinet. Only need to plug in and connect to the water then to use, easy to install.
- ✓ Thickened PP material, long service life.
- ✓ Quickly and effectively reduce the content of ammonia nitrogen and decompose nitrite and other harmful substances.
- ✓ Equipped with biochemical filler for more than ten years, which is easy to use and does not need much consumables.
- ✓ Built in two-stage sedimentation, can effectively stabilize the water pressure and filter impurities.

## Technical Parameters

Model	Flowrate (m3/h)	Voltage	Power		Installation Period (Day)
HRWTS20	20	380V/50Hz	1.75kw	2.35hp	6
HRWTS40	40	380V/50Hz	2.9kw	3.89hp	6
HRWTS60	60	380V/50Hz	4.65kw	6.23hp	8
HRWTS80	80	380V/50Hz	7.6kw	10.18hp	8
HRWTS100	100	380V/50Hz	8.6kw	11.52hp	10
HRWTS200	200	380V/50Hz	15.6kw	20.90hp	15
HRWTS300	300	380V/50Hz	20.8kw	27.87hp	15

## Product Features

**Horbo** integrated recirculating aquaculture equipment. Integrating microfiltration, sedimentation, ultraviolet disinfection, biochemical + filler, backwashing pump, circulating water pump, and electric control cabinet. With exquisite design and simple installation, only need to be plugged in and connected to the water then to directly use. The system can effectively filter residual bait and fish manure in the water, degrade ammonia nitrogen and nitrite, and is equipped with automatic backwashing and dirt collection, which can quickly clean and discharge.

# PP PLASTIC KOI ALL-IN ONE MACHINE



HYCM-01 / HYCM-06



EXCELLENT  
PERFORMANCE



HIGH  
TECHNOLOGY



EASY  
MAINTENANCE



## Product Features

- ✓ The Koi system is combined of a rotary drum filter, biochemical filter, UV lamp, backwash system, and an electric control box.
- ✓ With automatic, stop and manual working modes. In the automatic working mode, it will auto sense whether the screen is blocked and will automatically backwashing. At the same time, the backwashing time can be set according to the screen blockage.
- ✓ The screen is made of high-quality and unique stainless steel screen, which has low resistance, strong water passing ability, and zero energy consumption when the screen is not blocked.
- ✓ PP material is environment-friendly, non-toxic and corrosion-resistant, and is used to separate impurities in water.
- ✓ The dirt collection tank has an inclined angle for quick sewage discharge.

## Technical Parameters

Model	HYCM-01	HYCM-02	HYCM-03	HYCM-04	HYCM-05	HYCM-06
Processing MAX Flow	15m <sup>3</sup> /h	18m <sup>3</sup> /h	23m <sup>3</sup> /h	27m <sup>3</sup> /h	32m <sup>3</sup> /h	37m <sup>3</sup> /h
Roller Diameter	43cm	45cm	48cm	50cm	52cm	54cm
Roller Length	30cm	36cm	42cm	48cm	54cm	60cm
Box Size	120*60*75cm	130*62*77cm	140*64*79cm	150*66*81cm	160*68*83cm	180*70*85cm
Inlet Size	7.5cm	7.5cm	11cm	11cm	11cm*2	11cm*2
Outlet Size	11cm	11cm	11cm*2	11cm*2	11cm*3	11cm*3
Backwash Water Pump Power	1Kw	1Kw	1Kw	1Kw	1Kw	1Kw
Reducer Power	15w	15w	15w	15w	15w	15w

# STAINLESS STEEL KOI ALL-IN ONE MACHINE



HYC-01 / HYC-05



EXCELLENT  
PERFORMANCE



HIGH  
TECHNOLOGY



EASY  
MAINTENANCE



## Product Features

- ✓ Koi system brush type, combined biochemical filter system, UV sterilization system, electric control box.
- ✓ S-shaped flow channel, fully filter impurities in water.
- ✓ Stainless steel material is non-toxic and more lighter.
- ✓ The dirt collection tank has an inclined angle for quick sewage discharge.
- ✓ High efficiency and low energy consumption

## Technical Parameters

Model	HYC-01	HYC-02	HYC-03	HYC-04	HYC-05
Suitable Water Volume	0m <sup>3</sup> -10m <sup>3</sup>	10m <sup>3</sup> -20m <sup>3</sup>	20m <sup>3</sup> -30m <sup>3</sup>	30m <sup>3</sup> -40m <sup>3</sup>	40m <sup>3</sup> -50m <sup>3</sup>
Large Flow	5K L/H	7K L/H	10K L/H	12K L/H	14K L/H
Power Cord Length	5m	5m	5m	5m	5m
Box Size	60*40*40cm	70*45*40cm	80*50*40cm	90*55*40cm	100*60*40cm
Inlet Size	20/25/32/38mm	20/25/32/38mm	20/25/32/38mm	20/25/32/38mm	20/25/32/38 mm
Outlet Size	5cm	5cm	5cm	75cm	75cm
Pump Power	30w	50w	80w	100w	120w



# HEAVY DUTY ROTARY DRUM FILTER



HPM-30 / HPM-150



EXCELLENT  
PERFORMANCE



HIGH  
TECHNOLOGY



EASY  
MAINTENANCE



## Product Features

- ✓ The fully automatic drum microfiltration machine is suitable for solid particle filtration in the early stage of seawater freshwater aquaculture, and is widely used in various occasions where solid-liquid separation is required.
- ✓ It has various working modes such as automatic, stop, manual and so on. In the automatic mode, it automatically senses whether the screen is clogged and automatically performs backwashing. It also can set the backwashing time according to the screen blockage.
- ✓ The screen uses a unique weaving process and is a premium stainless steel screen. It has low resistance and strong ability to pass water. Zero energy consumption can be achieved when the screen is not blocked.
- ✓ The shell is made of high quality plastic and is corrosion resistant and durable.
- ✓ The dirt collection tank has an angle of inclination for quick drainage.

## Technical Parameters

Model	HPM30	HPM60	HPM100	HPM120	HPM150
Processing MAX Flow	30m <sup>3</sup> /h	60m <sup>3</sup> /h	100m <sup>3</sup> /h	120m <sup>3</sup> /h	150m <sup>3</sup> /h
Roller Diameter	0.5M	0.7m	0.91m	0.91m	1.03m
Roller Length	0.52M	0.75m	0.9m	1.1m	1.3m
Box Size	1.1m*0.9m*0.9m	1.4m*1.1m*1m	1.8m*1.2m*1.1m	2.1m*1.2m*1.1m	2.3m*1.4m*1.2m
Inlet Size	0.16m	0.2m	0.2m	0.25m	0.25m
Outlet Size	0.16m	0.2m	0.2m	0.25m	0.25m
Backwash Water Pump Power	0.75Kw	0.75Kw	1.1Kw	1.1Kw	1.1Kw
Reducer Power	0.18Kw	0.37Kw	0.55Kw	0.55Kw	0.55Kw

# HEAVY DUTY PROTEIN SKIMMER



HDF-15 / HDF-200



EXCELLENT PERFORMANCE



HIGH TECHNOLOGY



EASY MAINTENANCE

## Product Overview

The protein skimmer utilizes the surface of the bubble in the water to absorb various granular impurities and soluble organic matter mixed in the water, and uses a nano-aeration disk to generate a large number of bubbles, and purifies the seawater through a protein skimmer, all of which are concentrated on the water surface. The foam is formed, and the absorbed foam is collected in a container on the surface of the water, and it is turned into a turbid liquid to be discharged.

## Product Features

- ✓ Protein Skimmer will be remove fish feces, feeds and other organics before they are changed into ammonification, to avoid them become poisonous substances. Also it will remove humic substances and organic acid increase water clarity and make the PH value stable.
- ✓ There has emptying outlet on the bottom, so can drain all the water away when not use the equipment, to avoid grow germs.
- ✓ It has the function of Ozone reaction tower. Inject zone to disinfect, sterilize and remove algae and improve the protein separation effect at the same time.
- ✓ The foam is collected by a foam collection cup and then drained by a backwashing device, It is environmentally friendly and practical.



## Technical Parameters

Model	Size (mm)	MAX Processing Capacity	Power	Remarks
HDF-15	Φ600*2850	15m <sup>3</sup> /h	0.9Kw	Including Venturi Injector, Injector Pump
HDF-20	Φ700*2850	20m <sup>3</sup> /h	1.1Kw	Including Venturi Injector, Injector Pump
HDF-30	Φ850*2850	30m <sup>3</sup> /h	1.5Kw	Including Venturi Injector, Injector Pump
HDF-50	Φ1000*3500	50m <sup>3</sup> /h	1.85Kw	Including Venturi Injector, Injector Pump
HDF-60	Φ1200*3000	60m <sup>3</sup> /h	1.85Kw	Including Venturi Injector, Injector Pump
HDF-80	Φ1200*3500	80m <sup>3</sup> /h	2.2Kw	Including Venturi Injector, Injector Pump
HDF-100	Φ1430*3300	100m <sup>3</sup> /h	3Kw	Including Venturi Injector, Injector Pump
HDF-120	Φ1500*3500	120m <sup>3</sup> /h	3.7Kw	Including Venturi Injector, Injector Pump
HDF-150	Φ1650*3500	150m <sup>3</sup> /h	4.4Kw	Including Venturi Injector, Injector Pump
HDF-200	Φ2000*3500	200m <sup>3</sup> /h	6.6Kw	Including Venturi Injector, Injector Pump

# HEAVY DUTY BIO FILTER



HBFF-10 / HBFF-60



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## Product Description

The biological filter efficiently removes ammonia nitrogen, organic matter and SS in the sewage through the biooxidation and bioflocculation of the microbial population in the reactor, the adsorption and retention filtration of the filler, and the food chain grading and predation of the microbial ecosystem. The microorganisms in the biological filter are fixedly grown, the microorganisms obtain a long residence time in the reactor, and the nitrosating bacteria and the nitrifying bacteria have sufficient time for accumulation to achieve a good removal effect on the ammonia nitrogen.

## Product Features

- ✓ Protein Skimmer will be remove fish feces, feeds and other organics before they are changed into ammonification, to avoid them become poisonous substances. Also it will remove humic substances and organic acid increase water clarity and make the PH value stable.
- ✓ There has emptying outlet on the bottom, so can drain all the water away when not use the equipment, to avoid grow germs.
- ✓ It has the function of Ozone reaction tower. Inject zone to disinfect, sterilize and remove algae and improve the protein separation effect at the same time.
- ✓ The waste foam will be discharged directly, no foam collection cup, no need washing, more practical and environmentally friendly.

## Technical Parameters

Model	Size (mm)	Flow (m <sup>3</sup> /h)	Inlet (mm/inch)	Outlet (mm/inch)
HBFF10	Φ1000*2450	10	Φ90(3")	Φ90(3")
HBFF20	Φ1400*2550	20	Φ110(4")	Φ110(4")
HBFF30	Φ1700*2650	30	Φ110(4")	Φ110(4")
HBFF40	Φ2060*2700	40	Φ160(6")	Φ160(6")
HBFF50	Φ2160*2750	50	Φ160(6")	Φ160(6")
HBFF60	Φ2260*2800	60	Φ160(6")	Φ160(6")

# HEAVY DUTY BIO-MEDIA



PE - 05 / PE - 03



EXCELLENT  
PERFORMANCE



HIGH  
TECHNOLOGY



EASY  
MAINTENANCE



## Product Features

- ✓ Outer diameter 30 mm
- ✓ Extremely high removal capacity due to maximized concentration of active biomass in smallest possible reaction volume
- ✓ Optimal diffusion of substrate and O into the entire biomass due to controlled biofilms thanks to self-cleaning effect caused by shear forces
- ✓ Perfectly suitable for the operation with blocking-resistant and large-perforated retention screens (perforation O 20 mm)
- ✓ Sturdy outer ring for protection from mechanical impacts

## Technical Parameters



Model	Size ( mm )
PE-05	Φ25*10



Model	Size ( mm )
PE-03	Φ10*7



# FRA SERIES PP PLASTIC FISH POND



HFRA-1015A / HFRA-8015A



EXCELLENT  
PERFORMANCE



HIGH  
TECHNOLOGY



EASY  
MAINTENANCE



## Product Features

- ✓ Designed for industrial recirculating aquaculture system, hatching and breeding, broodstock, broodstock, adult fish
- ✓ Adopt high molecular engineering plastics, which are environmentally friendly and non-toxic, smooth surface, aging resistance and long service life.
- ✓ Breeding Conical bottom design, more convenient for the collection and discharge of aquaculture waste
- ✓ Fish pond inlet and outlet are easy to connect, easy to operate, easy to install.
- ✓ Anti-leakage, corrosion-resistant, anti-cracking, high strength.

## Technical Parameters



Model	Size (mm)	Full up Volume (m <sup>3</sup> )	Outlet (mm/in)
HFRA-1015A	Φ1000*1500	1.1	Φ63(2")
HFRA-1215A	Φ1200*1500	1.5	Φ63(2")
HFRA-1515A	Φ1500*1500	2.3	Φ63(2")
HFRA-2215A	Φ2200*1500	4.7	Φ63(2")
HFRA-3015A	Φ3000*1500	11.5	Φ90(3")
HFRA-4015A	Φ4000*1500	21.8	Φ110(5")
HFRA-5015A	Φ5000*1500	35.1	Φ140(5")
HFRA-5815A	Φ5800*1500	46.2	Φ140(5")
HFRA-7015A	Φ7000*1500	71.2	Φ160(6")
HFRA-8015A	Φ8000*1500	93	Φ200(8")

# ULTRAVIOLET STERILIZER SOUND & LIGHT ALARM



HUV-6W / HUV-660W



EXCELLENT  
PERFORMANCE



HIGH  
TECHNOLOGY



EASY  
MAINTENANCE



## Technical Parameters

Model	Material	T5 Lamp Power	Voltage	Lamp Amount	Flow	Max Pressure	Max Pressure	Test Pressure
HUV-6W	#304/316	6W	110V/240V	1	0.1m <sup>3</sup> /h	421cm <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-12W	#304/316	12W	110V/240V	1	0.2m <sup>3</sup> /h	502cm <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-16W	#304/316	16W	110V/240V	1	0.4m <sup>3</sup> /h	990cm <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-25W	#304/316	25W	110V/240V	1	1.4m <sup>3</sup> /h	1687cm <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-30W	#304/316	30W	110V/240V	1	1.8m <sup>3</sup> /h	2684m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-35W	#304/316	35W	110V/240V	1	2.3m <sup>3</sup> /h	2810m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-55W	#304/316	55W	110V/240V	1	2.7m <sup>3</sup> /h	2810m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-110W	#304/316	110W	110V/240V	2	5.5m <sup>3</sup> /h	8130m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-165W	#304/316	165W	110V/240V	3	8m <sup>3</sup> /h	12330m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-220W	#304/316	220W	110V/240V	4	11m <sup>3</sup> /h	19674m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-330W	#304/316	330W	110V/240V	6	16m <sup>3</sup> /h	33739m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-440W	#304/316	440W	110V/240V	8	22m <sup>3</sup> /h	33739m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-550W	#304/316	550W	110V/240V	10	30m <sup>3</sup> /h	33739m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-660W	#304/316	660W	110V/240V	12	35m <sup>3</sup> /h	33739m <sup>3</sup>	10bar(145psi)	15bar(218psi)

# ULTRAVIOLET STERILIZER



HUV-6W / HUV-660W



EXCELLENT  
PERFORMANCE



HIGH  
TECHNOLOGY



EASY  
MAINTENANCE



## Technical Parameters

Model	Material	T5 Lamp Power	Voltage	Lamp Amount	Flow	Max Pressure	Max Pressure	Test Pressure
HUV-6W	#304/316	6W	110V/240V	1	0.1m <sup>3</sup> /h	421cm <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-12W	#304/316	12W	110V/240V	1	0.2m <sup>3</sup> /h	502cm <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-16W	#304/316	16W	110V/240V	1	0.4m <sup>3</sup> /h	990cm <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-25W	#304/316	25W	110V/240V	1	1.4m <sup>3</sup> /h	1687cm <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-30W	#304/316	30W	110V/240V	1	1.8m <sup>3</sup> /h	2684m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-35W	#304/316	35W	110V/240V	1	2.3m <sup>3</sup> /h	2810m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-55W	#304/316	55W	110V/240V	1	2.7m <sup>3</sup> /h	2810m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-110W	#304/316	110W	110V/240V	2	5.5m <sup>3</sup> /h	8130m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-165W	#304/316	165W	110V/240V	3	8m <sup>3</sup> /h	12330m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-220W	#304/316	220W	110V/240V	4	11m <sup>3</sup> /h	19674m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-330W	#304/316	330W	110V/240V	6	16m <sup>3</sup> /h	33739m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-440W	#304/316	440W	110V/240V	8	22m <sup>3</sup> /h	33739m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-550W	#304/316	550W	110V/240V	10	30m <sup>3</sup> /h	33739m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-660W	#304/316	660W	110V/240V	12	35m <sup>3</sup> /h	33739m <sup>3</sup>	10bar(145psi)	15bar(218psi)

# HIGH-POWER ULTRAVIOLET STERILIZER



HUV-6W / HUV-660W



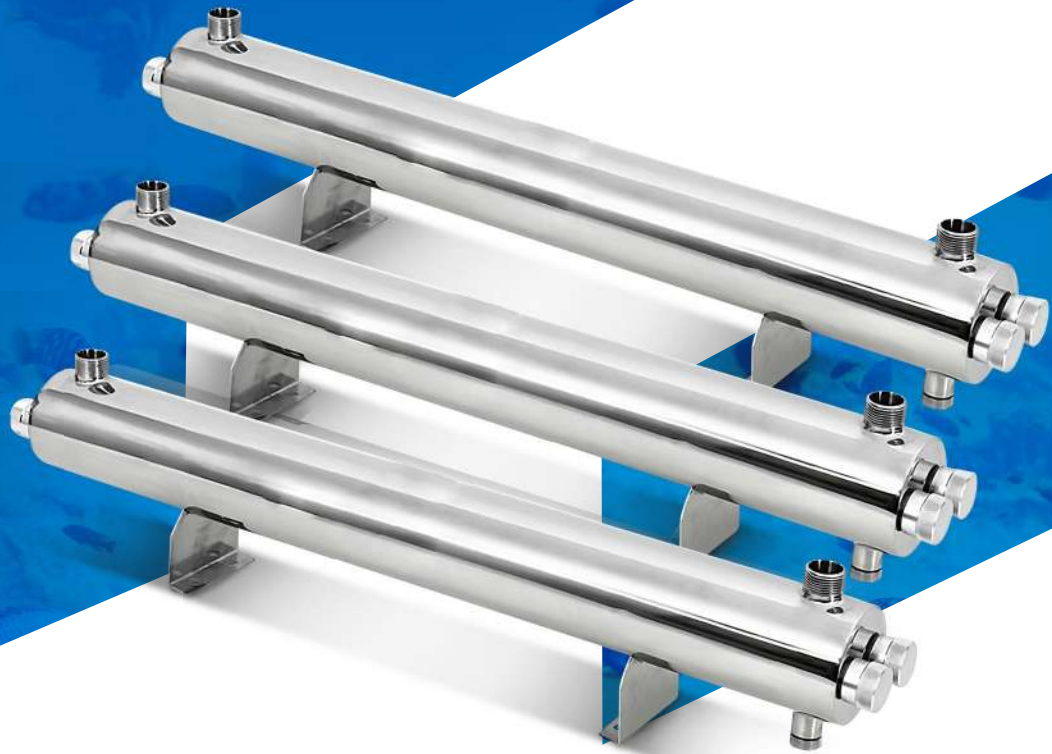
EXCELLENT  
PERFORMANCE



HIGH  
TECHNOLOGY



EASY  
MAINTENANCE



## Technical Parameters

Model	Material	T5 Lamp Power	Voltage	Lamp Amount	Flow	Max Pressure	Max Pressure	Test Pressure
HUV-6W	#304/316	6W	110V/240V	1	0.1m <sup>3</sup> /h	421cm <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-12W	#304/316	12W	110V/240V	1	0.2m <sup>3</sup> /h	502cm <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-16W	#304/316	16W	110V/240V	1	0.4m <sup>3</sup> /h	990cm <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-25W	#304/316	25W	110V/240V	1	1.4m <sup>3</sup> /h	1687cm <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-30W	#304/316	30W	110V/240V	1	1.8m <sup>3</sup> /h	2684m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-35W	#304/316	35W	110V/240V	1	2.3m <sup>3</sup> /h	2810m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-55W	#304/316	55W	110V/240V	1	2.7m <sup>3</sup> /h	2810m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-110W	#304/316	110W	110V/240V	2	5.5m <sup>3</sup> /h	8130m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-165W	#304/316	165W	110V/240V	3	8m <sup>3</sup> /h	12330m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-220W	#304/316	220W	110V/240V	4	11m <sup>3</sup> /h	19674m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-330W	#304/316	330W	110V/240V	6	16m <sup>3</sup> /h	33739m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-440W	#304/316	440W	110V/240V	8	22m <sup>3</sup> /h	33739m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-550W	#304/316	550W	110V/240V	10	30m <sup>3</sup> /h	33739m <sup>3</sup>	10bar(145psi)	15bar(218psi)
HUV-660W	#304/316	660W	110V/240V	12	35m <sup>3</sup> /h	33739m <sup>3</sup>	10bar(145psi)	15bar(218psi)



# HEAVY DUTY OZONE GENERATOR



HO-10G / HO-100G



EXCELLENT  
PERFORMANCE



HIGH  
TECHNOLOGY



EASY  
MAINTENANCE



## Product Features

- ✓ Used with protein skimmer to sterilize, disinfect, deodorize and remove heavy metal ions and harmful gases in water.
- ✓ Increase dissolved oxygen in water to stabilize water quality.
- ✓ With ozone concentration adjustment function.
- ✓ The body is made of 304 stainless steel, anti-corrosion and anti-oxidation.

## Technical Parameters

Model	Ozone Output	Power	Ozone Concentration	Applicable Water Quantity	Dimension	NG/GW	Cooling Water Flow	Oxygen Flow Rate	Pressure	Voltage	Cooling Way	Gas Feeding
HO-10G	10G	510W	60-80 mg/L	1-3m <sup>3</sup> /h	50*40*73 cm	32/4 4.4 kg	/	2-3 L	0.03-0.05	220V/ 50Hz	Air Cooling	Oxygen Vsource
HO-20G	20G	730W	60-80 mg/L	5-10m <sup>3</sup> /h	50*40*91 cm	42.4 /51 kg	1.5- 1.8m <sup>2</sup> /h	4L	0.03-0.05			
HO-30G	30G	750W	60-80 mg/L	10-15m <sup>3</sup> /h	50*40*91 cm	44.4 /53 Kg	1.5- 1.8m <sup>2</sup> /h	6L	0.03-0.05		Water-Cooling	
HO-50G	50G	945W	80-120 mg/L	20-30m <sup>3</sup> /h	50*40*115 cm	52/ 65 Kg	1.5- 1.8m <sup>2</sup> /h	10L	0.05-0.06			
HO-100G	100G	1900 W	80-120 mg/L	50-70m <sup>3</sup> /h	50*40*160 cm	86/ 107 kg	1.8- 2m <sup>2</sup> /h	20L	0.05-0.06			

# OXYGEN CONCENTRATOR



HY-3L / HY-10L



EXCELLENT PERFORMANCE



HIGH TECHNOLOGY



EASY MAINTENANCE



## Product Features

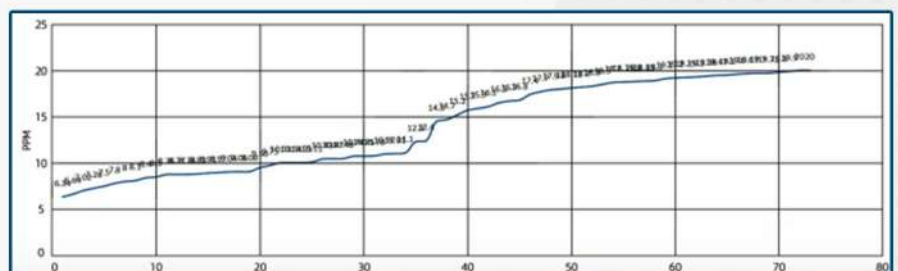
- ✓ Improve dissolved oxygen concentration in aquaculture water
- ✓ Stable oxygen output, high concentration
- ✓ Ensure dissolved oxygen concentration in high-density aquaculture water
- ✓ High oxygen output pressure, aeration

## Technical Parameters

Model	Oxygen Output	Power	Air Inlet Flow Rate	NG/GW	Dimension(cm)
HY-3L	3LPM	300	45LPM	17kg/24.3kg	40*30*57
HY-5L	5LPM	450	75LPM	23kg/33kg	42*30*62
HY-8L	8LPM	600	105LPM	26kg/33kg	43*30*62
HY-10L	10LPM	650	105LPM	26kg/33kg	42*30*62

## Dissolved Oxygen Curve

Rise curve of dissolved 10L oxygen (95.6%)



Time / Second

# HYBRID ACCESSORIS



**EXCELLENT  
PERFORMANCE**



**HIGH  
TECHNOLOGY**



**EASY  
MAINTENANCE**

## Mode 1

## Dissolved Oxygen Cone

This is a kind of aeration equipment especially designed for aquaculture plants. The whole body is made of FRP material with high strength. The oxygen enhancing effect clearly exceeds that of similar products. Used together with circulating aquaculture equipment such as pure oxygen production equipment (or bottled oxygen), it can provide highly dissolved oxygen water for ultra-high density aquaculture. If it is ozone gas, it can form high concentrations of water ozone which has strong oxidizing properties and can directly kill bacteria, viruses and other microorganisms in the water.



Gas  
↓



## The Conduit

## Mode 2

## Ceramic Aeration Disc

These aquaculture-duty diffusers are among the most efficient diffusers available, allowing you to increase yield while controlling the cost of expensive gases. Made from premium materials and subject to rigorous testing, Micro Bubble Diffusers provide the kind of performance and reliability our reputation is built on.



( Aeration pans can be connected in series )

# FISH FRY & SHRIMP LARVAE



Sturgeon Fish



Eel



Tongue Sole



Jade Perch



Penaeus Vannamei Boone



Prawn



Grouper Fish



Carp Fish



Tilapia Fish



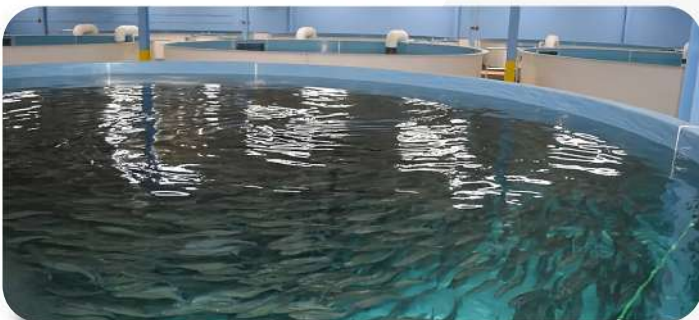
Salmon Fish



Barramundi Fish



Cod Fish





# SPECIAL IN KOI FILTRATION

A koi filtration machine is a device specifically designed to filter the water in a koi pond or aquarium. It typically consists of multiple stages of filtration that work together to remove debris, waste, and harmful substances from the water. equipped with high technology, performance, and quality.



EXCELLENT  
PERFORMANCE



HIGH  
TECHNOLOGY



EASY  
MAINTENANCE

# ROTARY DRUM FILTER 5M<sup>3</sup>



FULL  
AUTOMATIC



NO LABOR  
REQUIRED



AUTOMATIC  
DISCHARGED



FILTRATION OF  
IMPURITIES



ENERGY  
CONSERVATION



STABLE AND  
DURABLE



## Product Description

The fully automatic drum microfiltration machine is suitable for solid particle filtration in the early stage of seawater freshwater aquaculture, and is widely used in various occasions where solid-liquid separation is required.

It has various working modes such as automatic, stop, manual and so on. In the automatic mode, it automatically senses whether the screen is clogged and automatically performs backwashing. It also can set the backwashing time according to the screen blockage.

Water Flow Rate	1320 GPH = 5M <sup>3</sup> /h
Size	16.93*15.35*14.57in = 430*390*370mm
Inlet Size	1.25in = 32mm ( Support Customized )
Outlet Size	1.57in = 40mm ( Support Customized )
Working Power	95W



# ROTARY DRUM FILTER 10M<sup>3</sup>



FULL  
AUTOMATIC



NO LABOR  
REQUIRED



AUTOMATIC  
DISCHARGED



FILTRATION OF  
IMPURITIES



ENERGY  
CONSERVATION



STABLE AND  
DURABLE



## Product Description

The fully automatic drum microfiltration machine is suitable for solid particle filtration in the early stage of seawater freshwater aquaculture, and is widely used in various occasions where solid-liquid separation is required.

It has various working modes such as automatic, stop, manual and so on. In the automatic mode, it automatically senses whether the screen is clogged and automatically performs backwashing. It also can set the backwashing time according to the screen blockage.

Water Flow Rate	2641.72 GPH = 10M <sup>3</sup> /h
Size	19.69*15.75*16.93in = 500*400*430mm
Inlet Size	1.57in = 40mm ( Support Customized )
Outlet Size	1.96in = 50mm ( Support Customized )
Working Power	95W



# ROTARY DRUM FILTER 20M<sup>3</sup>



FULL  
AUTOMATIC



NO LABOR  
REQUIRED



AUTOMATIC  
DISCHARGED



FILTRATION OF  
IMPURITIES



ENERGY  
CONSERVATION



STABLE AND  
DURABLE



## Product Description

The fully automatic drum microfiltration machine is suitable for solid particle filtration in the early stage of seawater freshwater aquaculture, and is widely used in various occasions where solid-liquid separation is required.

It has various working modes such as automatic, stop, manual and so on. In the automatic mode, it automatically senses whether the screen is clogged and automatically performs backwashing. It also can set the backwashing time according to the screen blockage.

Water Flow Rate	7925.16 GPH = 30M <sup>3</sup> /h
Size	22.24*18.31*22.28in = 565*465*566mm
Inlet Size	6.29in = 160mm ( Support Customized )
Outlet Size	6.29in = 160mm ( Support Customized )
Working Power	1040W





# ROTARY DRUM FILTER 30M<sup>3</sup>



FULL  
AUTOMATIC



NO LABOR  
REQUIRED



AUTOMATIC  
DISCHARGED



FILTRATION OF  
IMPURITIES



ENERGY  
CONSERVATION



STABLE AND  
DURABLE



## Product Description

The fully automatic drum microfiltration machine is suitable for solid particle filtration in the early stage of seawater freshwater aquaculture, and is widely used in various occasions where solid-liquid separation is required.

It has various working modes such as automatic, stop, manual and so on. In the automatic mode, it automatically senses whether the screen is clogged and automatically performs backwashing. It also can set the backwashing time according to the screen blockage.

Water Flow Rate	7925.16 GPH = 30M <sup>3</sup> /h
Size	31.49*23.62*27.95in = 800*600*710mm
Inlet Size	6.29in = 160mm ( Support Customized )
Outlet Size	6.29in = 160mm ( Support Customized )
Working Power	1040W



# COMBI DRUM FILTER



HYCM-01



HIGH-PRECISION  
FILTRATION



PERIODIC  
TIMING



LOW ENERGY  
CONSUMPTION



FILTRATION OF  
IMPURITIES



PP STRUCTURE



## Product Features

- ✓ Combi drum filter: with rotary drum filter, bio filter, UV
- ✓ Rotary drum filter: SS316 material mesh, 75 micron, filter the fence and residual feeds
- ✓ Bio filter: remove humic substance and organic acid, increase water clarity
- ✓ UV: sterilizer water, improve water quality
- ✓ PP material: safe and long life

A combi drum filter is an innovative filtration system designed to efficiently remove solid particles from liquids or gases. It consists of a rotating drum with a fine mesh or perforated surface, through which the contaminated fluid flows. As the drum rotates, the solids are captured on the surface while the clean liquid or gas passes through.

Suitable Water Volume	30.000 ~ 50.000 Liters
Max Water Flow Rate	3962 GPH = 15m <sup>3</sup> /h
Size	47.24*23.62*29.52in = 1200*600*750mm
Inlet Size	2.95in = 75mm ( Support Customized )
Outlet Size	4.33in = 110mm ( Support Customized )
Working Power	175 W



# COMBI DRUM FILTER



HYCM-02



HIGH-PRECISION  
FILTRATION



PERIODIC  
TIMING



LOW ENERGY  
CONSUMPTION



FILTRATION OF  
IMPURITIES



PP STRUCTURE



## Product Features

- ✓ Combi drum filter: with rotary drum filter, bio filter, UV
- ✓ Rotary drum filter: SS316 material mesh, 75 micron, filter the fence and residual feeds
- ✓ Bio filter: remove humic substance and organic acid, increase water clarity
- ✓ UV: sterilizer water, improve water quality
- ✓ PP material: safe and long life

A combi drum filter is an innovative filtration system designed to efficiently remove solid particles from liquids or gases. It consists of a rotating drum with a fine mesh or perforated surface, through which the contaminated fluid flows. As the drum rotates, the solids are captured on the surface while the clean liquid or gas passes through.

Suitable Water Volume	40.000 ~ 60.000 Liters
Max Water Flow Rate	4755 GPH = 18m <sup>3</sup> /h
Size	51.18*24.40*30.31in = 1300*620*770mm
Inlet Size	2.95in = 75mm ( Support Customized )
Outlet Size	4.33in = 110mm ( Support Customized )
Working Power	175 W



# COMBI DRUM FILTER



HYCM-03



HIGH-PRECISION  
FILTRATION



PERIODIC  
TIMING



LOW ENERGY  
CONSUMPTION



FILTRATION OF  
IMPURITIES



PP STRUCTURE

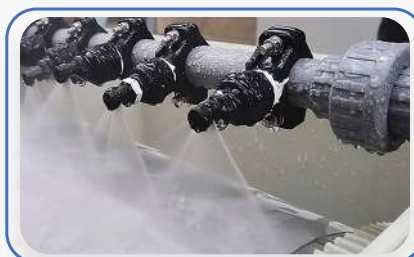


## Product Features

- ✓ Combi drum filter: with rotary drum filter, bio filter, UV
- ✓ Rotary drum filter: SS316 material mesh, 75 micron, filter the fence and residual feeds
- ✓ Bio filter: remove humic substance and organic acid, increase water clarity
- ✓ UV: sterilizer water, improve water quality
- ✓ PP material: safe and long life

A combi drum filter is an innovative filtration system designed to efficiently remove solid particles from liquids or gases. It consists of a rotating drum with a fine mesh or perforated surface, through which the contaminated fluid flows. As the drum rotates, the solids are captured on the surface while the clean liquid or gas passes through.

Suitable Water Volume	50.000 ~ 70.000 Liters
Max Water Flow Rate	6075 GPH = 15m <sup>3</sup> /h
Size	55.11*25.19*31.10in = 1400*640*790mm
Inlet Size	4.33in = 110mm ( Support Customized )
Outlet Size	2 Outlet 4.33in = 110mm ( Support Customized )
Working Power	215 W



# COMBI DRUM FILTER



HYCM-04



HIGH-PRECISION  
FILTRATION



PERIODIC  
TIMING



LOW ENERGY  
CONSUMPTION



FILTRATION OF  
IMPURITIES



PP STRUCTURE

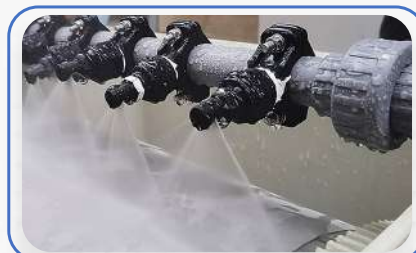


## Product Features

- ✓ Combi drum filter: with rotary drum filter, bio filter, UV
- ✓ Rotary drum filter: SS316 material mesh, 75 micron, filter the fence and residual feeds
- ✓ Bio filter: remove humic substance and organic acid, increase water clarity
- ✓ UV: sterilizer water, improve water quality
- ✓ PP material: safe and long life

A combi drum filter is an innovative filtration system designed to efficiently remove solid particles from liquids or gases. It consists of a rotating drum with a fine mesh or perforated surface, through which the contaminated fluid flows. As the drum rotates, the solids are captured on the surface while the clean liquid or gas passes through.

Suitable Water Volume	60.000 ~ 80.000 Liters
Max Water Flow Rate	7132 GPH = 27m <sup>3</sup> /h
Size	59.05*25.98*31.88in = 1500*660*810mm
Inlet Size	4.33in = 110mm ( Support Customized )
Outlet Size	2 Outlet 4.33in = 110mm ( Support Customized )
Working Power	215 W



# COMBI DRUM FILTER



HYCM-05



HIGH-PRECISION  
FILTRATION



PERIODIC  
TIMING



LOW ENERGY  
CONSUMPTION



FILTRATION OF  
IMPURITIES



PP STRUCTURE



## Product Features

- ✓ Combi drum filter: with rotary drum filter, bio filter, UV
- ✓ Rotary drum filter: SS316 material mesh, 75 micron, filter the fence and residual feeds
- ✓ Bio filter: remove humic substance and organic acid, increase water clarity
- ✓ UV: sterilizer water, improve water quality
- ✓ PP material: safe and long life

A combi drum filter is an innovative filtration system designed to efficiently remove solid particles from liquids or gases. It consists of a rotating drum with a fine mesh or perforated surface, through which the contaminated fluid flows. As the drum rotates, the solids are captured on the surface while the clean liquid or gas passes through.

Suitable Water Volume	70.000 ~ 90.000 Liters
Max Water Flow Rate	8453 GPH = 32m <sup>3</sup> /h
Size	62.99*26.77*32.67in = 1600*680*830mm
Inlet Size	2 Inlet 4.33in = 110mm ( Support Customized )
Outlet Size	3 Outlet 4.33in = 110mm ( Support Customized )
Working Power	275 W



# COMBI DRUM FILTER



HYCM-06



HIGH-PRECISION  
FILTRATION



PERIODIC  
TIMING



LOW ENERGY  
CONSUMPTION



FILTRATION OF  
IMPURITIES



PP STRUCTURE



## Product Features

- ✓ Combi drum filter: with rotary drum filter, bio filter, UV
- ✓ Rotary drum filter: SS316 material mesh, 75 micron, filter the fence and residual feeds
- ✓ Bio filter: remove humic substance and organic acid, increase water clarity
- ✓ UV: sterilizer water, improve water quality
- ✓ PP material: safe and long life

A combi drum filter is an innovative filtration system designed to efficiently remove solid particles from liquids or gases. It consists of a rotating drum with a fine mesh or perforated surface, through which the contaminated fluid flows. As the drum rotates, the solids are captured on the surface while the clean liquid or gas passes through.

Suitable Water Volume	80.000 ~ 100.000 Liters
Max Water Flow Rate	9774 GPH = 37m <sup>3</sup> /h
Size	70.86*27.55*33.46in = 1600*680*830mm
Inlet Size	2 Inlet 4.33in = 110mm ( Support Customized )
Outlet Size	3 Outlet 4.33in = 110mm ( Support Customized )
Working Power	275 W



# TRICKLE TOWER FILTER



HTK-370



*EFFICIENT  
OXYGENATION*



*LARGE  
FILTRATION LAYER*



*BOND  
WITHOUT GLUE*



*HIGH QUALITY PP  
MATERIAL*



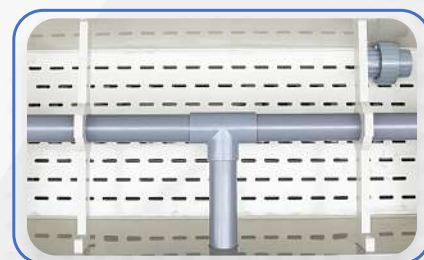
*EXPRESS SETUP*



## Product Features

This is an integrated filter, which combines physical filtration with biological filtration, reduces the flow rate of water, increases the contact surface between water and air, and provides an ideal living environment for aerobic bacteria, thus achieving the effect of purifying water quality and aerobic bacteria culture.

Top Length	14.57in = 370 mm
Bottom Length	11.42in = 290 mm
Total Height	34.37in = 873 mm
Outlet Width	7.87in = 200 mm
Number of Layers	4
Applicable Water Volume	2642 GPH = 10m <sup>3</sup> /h
Water Inlet	1.26in = 32 mm
Top Width	10.47in = 266 mm
Bottom Width	7.72in = 196 mm





# TRICKLE TOWER FILTER



HTK-450



*EFFICIENT  
OXYGENATION*



*LARGE  
FILTRATION LAYER*



*BOND  
WITHOUT GLUE*



*HIGH QUALITY PP  
MATERIAL*



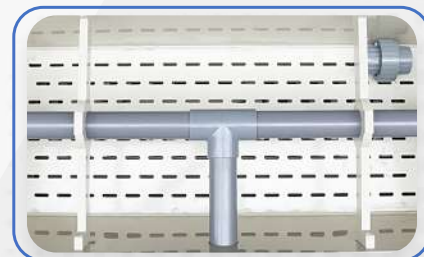
*EXPRESS SETUP*



## Product Features

This is an integrated filter, which combines physical filtration with biological filtration, reduces the flow rate of water, increases the contact surface between water and air, and provides an ideal living environment for aerobic bacteria, thus achieving the effect of purifying water quality and aerobic bacteria culture.

Top Length	21.26in = 540 mm
Bottom Length	18.11in = 460 mm
Total Height	39.96in = 1015 mm
Outlet Width	11.81in = 300 mm
Number of Layers	4
Applicable Water Volume	3963 GPH = 15m <sup>3</sup> /h
Water Inlet	1.97in = 50 mm
Top Width	14.41in = 366 mm
Bottom Width	11.65in = 296 mm



# TRICKLE TOWER FILTER



HTK-1000



*EFFICIENT  
OXYGENATION*



*LARGE  
FILTRATION LAYER*



*BOND  
WITHOUT GLUE*



*HIGH QUALITY PP  
MATERIAL*



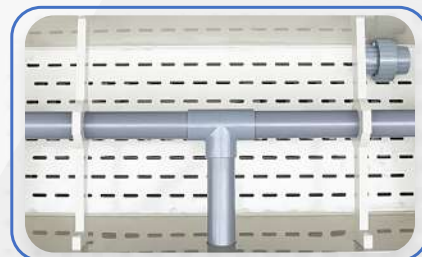
*EXPRESS SETUP*



## Product Features

This is an integrated filter, which combines physical filtration with biological filtration, reduces the flow rate of water, increases the contact surface between water and air, and provides an ideal living environment for aerobic bacteria, thus achieving the effect of purifying water quality and aerobic bacteria culture.

Top Length	39.37in = 1000 mm
Bottom Length	36.22in = 920 mm
Total Height	41.14in = 1045 mm
Outlet Width	23.62in = 600 mm
Number of Layers	4
Applicable Water Volume	7925 GPH = 30m <sup>3</sup> /h
Water Inlet	1.97in = 50 mm
Top Width	18.35in = 466 mm
Bottom Width	15.59in = 396 mm



# TRICKLE TOWER FILTER



HTK-1500



*EFFICIENT  
OXYGENATION*



*LARGE  
FILTRATION LAYER*



*BOND  
WITHOUT GLUE*



*HIGH QUALITY PP  
MATERIAL*



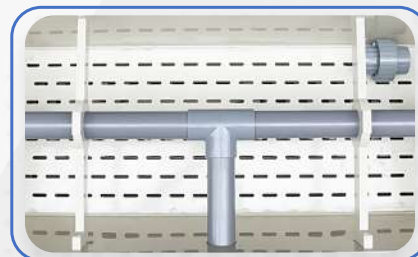
*EXPRESS SETUP*



## Product Features

This is an integrated filter, which combines physical filtration with biological filtration, reduces the flow rate of water, increases the contact surface between water and air, and provides an ideal living environment for aerobic bacteria, thus achieving the effect of purifying water quality and aerobic bacteria culture.

Top Length	59.06in = 1500 mm
Bottom Length	55.91in = 1420 mm
Total Height	41.14in = 1045 mm
Outlet Width	31.5in = 800 mm
Number of Layers	4
Applicable Water Volume	13209 GPH = 50m <sup>3</sup> /h
Water Inlet	1.97in = 50 mm
Top Width	18.35in = 466 mm
Bottom Width	15.59in = 396 mm



# TRICKLE TOWER FILTER



HTK-2000



*EFFICIENT  
OXYGENATION*



*LARGE  
FILTRATION LAYER*



*BOND  
WITHOUT GLUE*



*HIGH QUALITY PP  
MATERIAL*



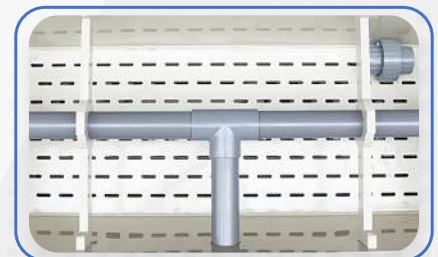
*EXPRESS SETUP*



## Product Features

This is an integrated filter, which combines physical filtration with biological filtration, reduces the flow rate of water, increases the contact surface between water and air, and provides an ideal living environment for aerobic bacteria, thus achieving the effect of purifying water quality and aerobic bacteria culture.

Top Length	78.74in = 2000 mm
Bottom Length	75.59in = 1920 mm
Total Height	41.14in = 1045 mm
Outlet Width	47.24in = 1200 mm
Number of Layers	4
Applicable Water Volume	18492 GPH = 70m <sup>3</sup> /h
Water Inlet	2.87in = 73 mm
Top Width	22.28in = 566 mm
Bottom Width	19.53in = 496 mm



# BIOCHEMICAL BRUSHTYPE FILTER



HYC-01



EFFICIENT OXYGENATION



ULTILAYER BULKHEAD



BOND WITHOUT GLUE



HIGH QUALITY STAINLESS STEEL SHEET



EXPRESS SETUP



## Product Features

Stainless steel modular fish pond filter integrated machine. Bulkhead bio-filler, high-efficiency filtration of water quality, more convenient replacement of consumables.

Dense brush filtration and compartment type biochemical filler for easy replacement of consumables can effectively cultivate beneficial bacteria and strengthen the filtration and purification of water source.

Size	31.5*15.75*19.69in = 800*400*500 mm
Matched Water Quantity	0-2642 GPH = 0-10m <sup>3</sup> /h
Inlet	0.79/0.98/1.26/1.5in = 20/25/32/38 mm
Outlet	1.97in = 50 mm
Power Cord Length	196.85in = 5000 mm
Pump Model	JTP-5000
High Volume Flow	1320 GPH = 5000 L/H
Dischare Outlet	0.98in = 25 mm
Total Power	50W



# BIOCHEMICAL BRUSHTYPE FILTER



**HYC-02**



*EFFICIENT OXYGENATION*



*ULTLAYER BULKHEAD*



*BOND WITHOUT GLUE*



*HIGH QUALITY STAINLESS STEEL SHEET*



*EXPRESS SETUP*



## Product Features

Stainless steel modular fish pond filter integrated machine. Bulkhead bio-filler, high-efficiency filtration of water quality, more convenient replacement of consumables.

Dense brush filtration and compartment type biochemical filler for easy replacement of consumables can effectively cultivate beneficial bacteria and strengthen the filtration and purification of water source.

Size	31.5*19.69*19.69in = 800*500*500 mm
Matched Water Quantity	2642-5284 GPH = 10-20m <sup>3</sup> /h
Inlet	0.79/0.98/1.26/1.5in = 20/25/32/38 mm
Outlet	1.97in = 50 mm
Power Cord Length	196.85in = 5000 mm
Pump Model	JTP-7000
High Volume Flow	1849 GPH = 7000 L/H
Dischare Outlet	0.98in = 25 mm
Total Power	80W



# BIOCHEMICAL BRUSHTYPE FILTER



HYC-03



EFFICIENT OXYGENATION



ULTILAYER BULKHEAD



BOND WITHOUT GLUE



HIGH QUALITY STAINLESS STEEL SHEET



EXPRESS SETUP



## Product Features

Stainless steel modular fish pond filter integrated machine. Bulkhead bio-filler, high-efficiency filtration of water quality, more convenient replacement of consumables.

Dense brush filtration and compartment type biochemical filler for easy replacement of consumables can effectively cultivate beneficial bacteria and strengthen the filtration and purification of water source.

Size	39.37*19.69*23.62in = 1000*500*600 mm
Matched Water Quantity	5284-7925 GPH = 20-30m <sup>3</sup> /h
Inlet	0.79/0.98/1.26/1.5in = 20/25/32/38 mm
Outlet	1.97in = 50 mm
Power Cord Length	196.85in = 5000 mm
Pump Model	JTP-10000
High Volume Flow	2642 GPH = 10000 L/H
Dischare Outlet	0.98in = 25 mm
Total Power	120W



# BIOCHEMICAL BRUSHTYPE FILTER



**HYC-04**



**EFFICIENT OXYGENATION**



**ULTILAYER BULKHEAD**



**BOND WITHOUT GLUE**



**HIGH QUALITY STAINLESS STEEL SHEET**



**EXPRESS SETUP**



## Product Features

Stainless steel modular fish pond filter integrated machine. Bulkhead bio-filler, high-efficiency filtration of water quality, more convenient replacement of consumables.

Dense brush filtration and compartment type biochemical filler for easy replacement of consumables can effectively cultivate beneficial bacteria and strengthen the filtration and purification of water source.

Size	39.37*23.62*23.62in = 1000*600*600 mm
Matched Water Quantity	7925-10567 GPH = 30-40m <sup>3</sup> /h
Inlet	0.79/0.98/1.26/1.5in = 20/25/32/38 mm
Outlet	2.95in = 75 mm
Power Cord Length	196.85in = 5000 mm
Pump Model	JTP-12000
High Volume Flow	3170 GPH = 12000 L/H
Dischare Outlet	0.98in = 25 mm
Total Power	160W





# BIOCHEMICAL BRUSHTYPE FILTER



HYC-05



EFFICIENT OXYGENATION



ULTILAYER BULKHEAD



BOND WITHOUT GLUE



HIGH QUALITY STAINLESS STEEL SHEET



EXPRESS SETUP



## Product Features

Stainless steel modular fish pond filter integrated machine. Bulkhead bio-filler, high-efficiency filtration of water quality, more convenient replacement of consumables.

Dense brush filtration and compartment type biochemical filler for easy replacement of consumables can effectively cultivate beneficial bacteria and strengthen the filtration and purification of water source.

Size	39.37*23.62*23.62in = 1000*600*600 mm
Matched Water Quantity	7925-10567 GPH = 30-40m <sup>3</sup> /h
Inlet	0.79/0.98/1.26/1.5in = 20/25/32/38 mm
Outlet	2.95in = 75 mm
Power Cord Length	196.85in = 5000 mm
Pump Model	JTP-12000
High Volume Flow	3170 GPH = 12000 L/H
Dischare Outlet	0.98in = 25 mm
Total Power	160W



# SUBMERSIBLE WATER PUMP



A submersible water pump is a specialized device designed to efficiently move water from one location to another, typically from a lower elevation to a higher elevation. Unlike traditional water pumps that sit above ground, submersible pumps are designed to be fully submerged in water, allowing them to operate with increased efficiency and reliability.

## ► Design Chart



## Features

- ✓ Strainer protects impeller from damage.
- ✓ Shell is made of high quality ABS plastic.
- ✓ Which is installed thermal protection, The motor will automatically cut off the power if it is overheating.
- ✓ It has good waterproof, high dielectric strength and is safe and reliable.
- ✓ Suitable for acid, alkali and salt environment.



- ✓ Suitable for fish tank filter pump, pond, skimming equipment power, aquarium landscaping, fountains, waterways, waterfalls, etc.....
- ✓ Seafood holding tanks, aquarium circulating water supply and drainage.
- ✓ Garden watering or cleaning equipment.
- ✓ Sea water or acid and alkali liquid supply and emissions.



STRONG WATER RESISTANCE



LONG SERVICE LIFE



OVERHEAT PROTECTION

# SUBMERSIBLE WATER PUMP



**STRONG WATER RESISTANCE**



**LONG SERVICE LIFE**



**OVERHEAT PROTECTION**



## SUBMERSIBLE WATER PUMP - HWP 12000LP

Size	6.89*12.6in = 175*320 mm
Flow	12000 L/H
Applicable Water Quantity	≤ 8T
Outer Diameter of Water Outlet	3.15in = 80 mm
Inner Diameter of Water Outlet	2.95in = 75 mm
Power	30W
Thread Length	177.17in = 4500 mm
Lift	78.74in = 2000 mm



## SUBMERSIBLE WATER PUMP - HWP 16000LP

Size	6.89*12.6in = 175*320 mm
Flow	16000 L/H
Applicable Water Quantity	≤ 10T
Outer Diameter of Water Outlet	3.15in = 80 mm
Inner Diameter of Water Outlet	2.95in = 75 mm
Power	40W
Thread Length	177.17in = 4500 mm
Lift	98.43in = 2500 mm



## SUBMERSIBLE WATER PUMP - HWP 22000LP

Size	6.89*12.6in = 175*320 mm
Flow	22000 L/H
Applicable Water Quantity	≤ 15T
Outer Diameter of Water Outlet	3.15in = 80 mm
Inner Diameter of Water Outlet	2.95in = 75 mm
Power	50W
Thread Length	177.17in = 4500 mm
Lift	118.11in = 3000 mm



## SUBMERSIBLE WATER PUMP - HWP 26000LP

Size	6.89*12.6in = 175*320 mm
Flow	26000 L/H
Applicable Water Quantity	≤ 25T
Outer Diameter of Water Outlet	3.15in = 80 mm
Inner Diameter of Water Outlet	2.95in = 75 mm
Power	75W
Thread Length	177.17in = 4500 mm
Lift	157.48in = 4000 mm

# SUBMERSIBLE WATER PUMP



**STRONG WATER RESISTANCE**



**LONG SERVICE LIFE**



**OVERHEAT PROTECTION**



## SUBMERSIBLE WATER PUMP - HWP 33000LP

Size	7.87*13.78in = 200*350 mm
Flow	33000 L/H
Applicable Water Quantity	≤ 30T
Outer Diameter of Water Outlet	4.53in = 115 mm
Inner Diameter of Water Outlet	4.33in = 110 mm
Power	100W
Thread Length	216.54in = 5500 mm
Lift	157.48in = 4000 mm



## SUBMERSIBLE WATER PUMP - HWP 40000LP

Size	7.87*13.78in = 200*350 mm
Flow	40000 L/H
Applicable Water Quantity	≤ 35T
Outer Diameter of Water Outlet	4.53in = 115 mm
Inner Diameter of Water Outlet	4.33in = 110 mm
Power	150W
Thread Length	216.54in = 5500 mm
Lift	177.17in = 4500 mm



## SUBMERSIBLE WATER PUMP - HWP 45000LP

Size	7.87*13.78in = 200*350 mm
Flow	45000 L/H
Applicable Water Quantity	≤ 40T
Outer Diameter of Water Outlet	4.53in = 115 mm
Inner Diameter of Water Outlet	4.33in = 110 mm
Power	200W
Thread Length	216.54in = 5500 mm
Lift	196.85in = 5000 mm



## SUBMERSIBLE WATER PUMP - HWP 55000LP

Size	7.87*13.78in = 200*350 mm
Flow	55000 L/H
Applicable Water Quantity	≤ 50T
Outer Diameter of Water Outlet	4.53in = 115 mm
Inner Diameter of Water Outlet	4.33in = 110 mm
Power	300W
Thread Length	216.54in = 5500 mm
Lift	216.54in = 5500 mm

# SUBMERSIBLE WATER PUMP



**STRONG WATER RESISTANCE**



**LONG SERVICE LIFE**



**OVERHEAT PROTECTION**



## SUBMERSIBLE WATER PUMP - HVF/ECO-12T

Size	6.89*12.6in = 175*320 mm
Flow	12000 L/H
Applicable Water Quantity	≤ 8T
Outer Diameter of Water Outlet	3.15in = 80 mm
Inner Diameter of Water Outlet	2.95in = 75 mm
Power	5-55W
Thread Length	216.54in = 5500 mm
Lift	78.74in = 2000 mm



## SUBMERSIBLE WATER PUMP - HVF/ECO-16T

Size	6.89*12.6in = 175*320 mm
Flow	16000 L/H
Applicable Water Quantity	≤ 10T
Outer Diameter of Water Outlet	3.15in = 80 mm
Inner Diameter of Water Outlet	2.95in = 75 mm
Power	5-75W
Thread Length	216.54in = 5500 mm
Lift	98.43in = 2500 mm



## SUBMERSIBLE WATER PUMP - HVF/ECO-22T

Size	6.89*12.6in = 175*320 mm
Flow	22000 L/H
Applicable Water Quantity	≤ 15T
Outer Diameter of Water Outlet	3.15in = 80 mm
Inner Diameter of Water Outlet	2.95in = 75 mm
Power	5-90W
Thread Length	216.54in = 5500 mm
Lift	118.11in = 3000 mm



## SUBMERSIBLE WATER PUMP - HVF/ECO-26T

Size	6.89*12.6in = 175*320 mm
Flow	26000 L/H
Applicable Water Quantity	≤ 25T
Outer Diameter of Water Outlet	3.15in = 80 mm
Inner Diameter of Water Outlet	2.95in = 75 mm
Power	5-105W
Thread Length	216.54in = 5500 mm
Lift	157.48in = 4000 mm

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