



LSS I RAS EQUIPMENT

2026 CATALOGUE





Contents

01 About Laswim

Production line	02
Typical project cases	03

02 LSS & RAS

Aquarium Life Support System	05
Recirculating Aquaculture System	06

03 Protein skimmer

LLDPE protein skimmer	12
PP protein skimmer	14

04 Rotary drum filter

RFF/RFM/RFI series drum filter	16
EDPP series drum filter	18
KF series drum filter	19
CS series drum filter	20

05 Mechanical filtration

ADG series sand filter	22
CCG series commercial sand filter	23
HF series horizontal sand filter	24
WF series bag filter	27
Ozone reactor	28
RSPP series vertical flow settler	29

06 Biological filtration

Fluidized sandbed biofilter	31
Bead filter	32
Moving bed biofilm reactor(MBBR)	33
Fluidized bed	34
All-in-one filtration system	35
All-in-one integrated RAS equipment	36

07 Circulation pump

HV2 intelligent variable speed pump	40
HLVSP variable speed pump	42
HLLF series pump	44
BHP series pump	45
KUP series seawater pump	46
KAP series seawater pump	47
KBP series seawater pump	48
STP series seawater pump	49
HGP-E series seawater pump	50
SLP series water pump	51
LCAP series stainless steel water pump	52
QS series large-flow water pump	54

ZS series stainless steel centrifugal pump	55
KLBP series seawater pump	56
NISO/NIS/NISF end suction centrifugal pump	57
Air blower	63

08 Basket strainer

SBS series basket filter	65
SFPF series stainless steel strainer	66
SSPE series stainless steel strainer	67

09 UV disinfection

UVWH series UV sterilizer for seawater	72
UVX Series UV sterilizer	73
UVD Series UV sterilizer	74
UVC Series UV sterilizer	75
High-efficiency UV disinfection systems For aquaculture water treatment	77

10 Ozone disinfection

Advanced oxidation process	80
Integrated ozone generator	82
Ozone generator	84
Integrated ozone injection system	85
Ozone off gas destructor	86
Portable water quality monitor	87

11 Oxygen system

Oxygenation column	89
FRP dissolved oxygen cone	90
PP degassing tower	91
Nano bubble air diffuser	92
Oxygen distribution box	93

12 Temperature control

Heat pump	96
Chiller	100
Plate heat exchanger	101

13 Fish Tank

Food-grade PP fish tank	103
Galvanized fish tank	104

14 Smart control

Smart electrical control cabinet	106
--	-----

15 Others

Filter media	108
--------------------	-----



About Laswim

Guangdong LASWIM Water Environment Equipment Co., Ltd, established in 1989, is one of the leading enterprise in the aquarium and aquaculture industry in China, and earning recognition as a trusted brand in China.

We are committed to developing and producing life support systems (LSS) and recirculating aquaculture systems (RAS) , and providing sustainable solutions for aquaculture and aquarium. Our 90,000m² R&D and industrial base in the Pearl River Delta Area, along with a team of over 600 skilled employees, reflecting our commitment to quality and innovation.

Our wide range of equipment includes pumps, filtration systems, protein skimmers, sterilization systems, and temperature control systems, etc., are all developed by our technical professionals. The products have won high praise and good markets in the world since their good design and excellent quality.

LASWIM aims to achieve "Make water environment sustainable" and regards all customers and users as close partners. We work closely with our partners to build a smarter ecosystem for water usage, and we invite you to become a part of this trend.

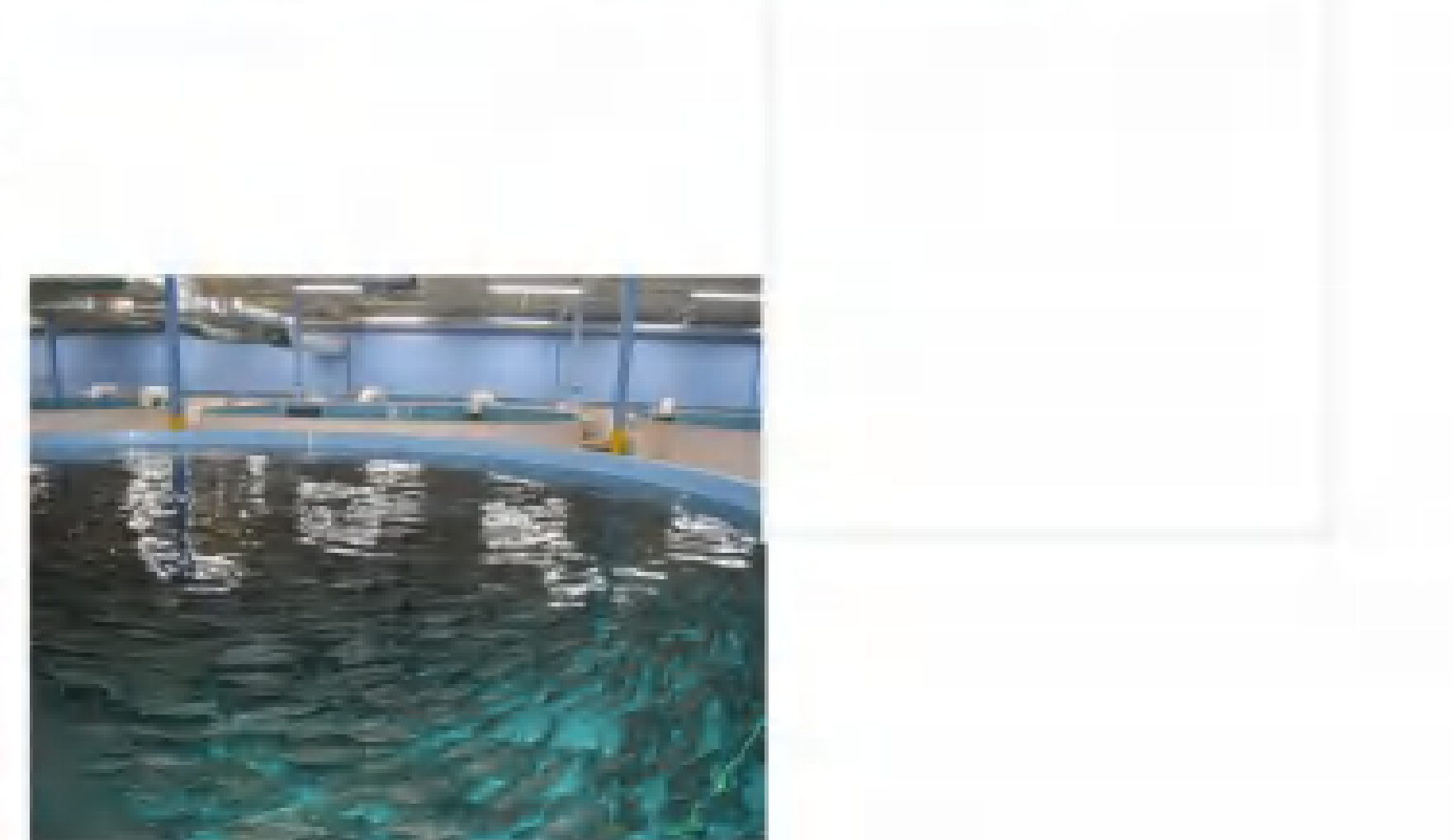
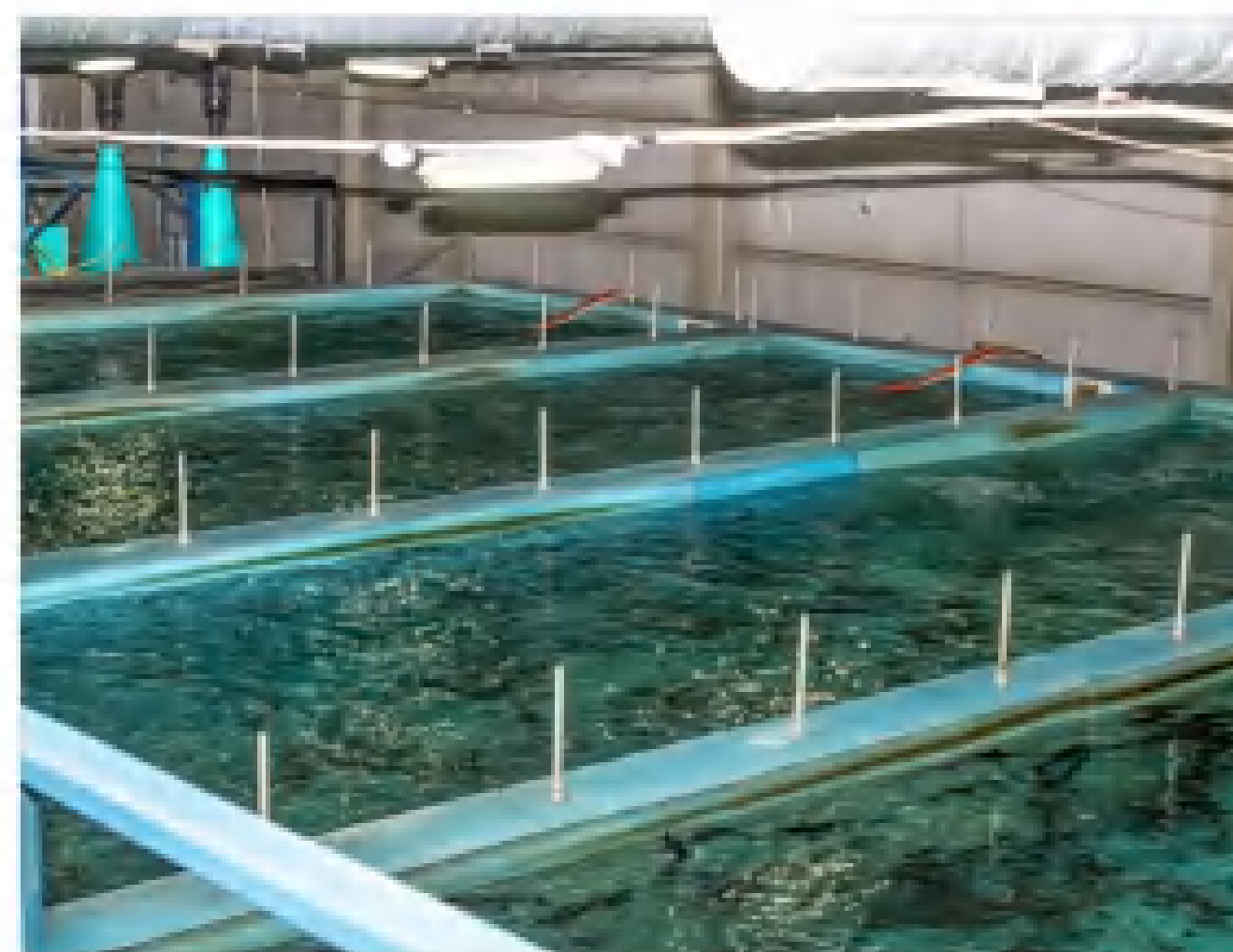


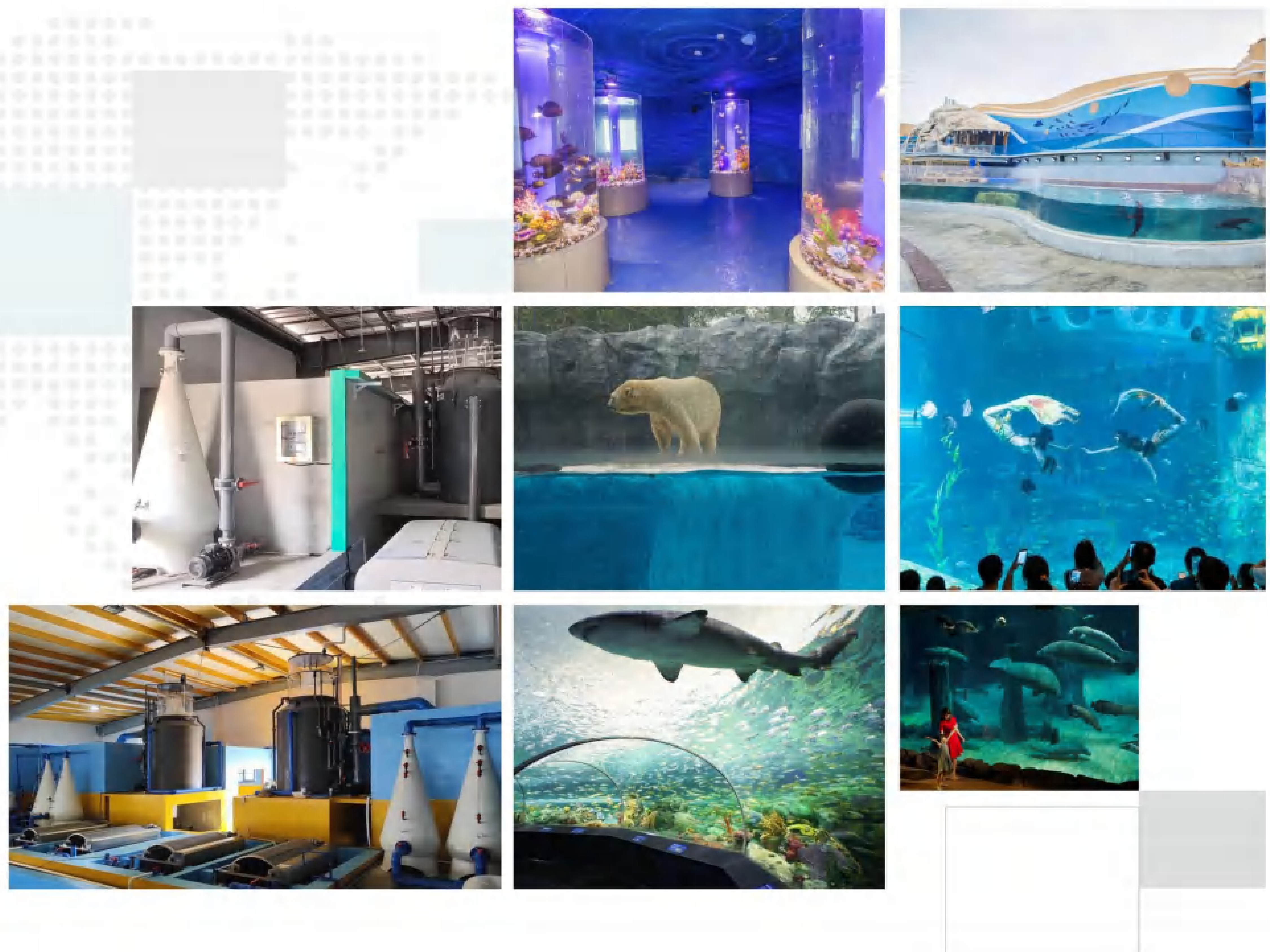
Life support system exhibition area of the company headquarters

PRODUCTION LINE



TYPICAL PROJECT CASES





Typical project cases of LSS & RAS

- Nanjing OCT Happy Valley Aquarium
- Xiangyang OCT Fantasy Valley
- Fujian Wuyi Mountain Polar Ocean Park
- Hong Kong Ocean Park
- Marine Ecological Environment Indoor Simulation System of the State Key Laboratory of Xiamen University
- Shanghai Haichang Polar Ocean World
- Changsha Undersea World
- Shandong Rizhao Ocean Park
- Changxing Dragon Dream Marine World in Zhejiang
- Shenzhen Animal Park
- Baotou Ocean World
- Lanzhou Polar Ocean World

AQUARIUM LIFE SUPPORT SYSTEM (LSS)

An aquarium life support system is a combination of equipment used to maintain a healthy, balanced environment in an aquarium where fish can survive and thrive. This system typically includes recirculating pump, filter, heater, air pump/aerator, lighting, disinfecting equipment and other components. All of these components work together to create an optimal habitat for aquatic species within the tank, and keep the water temperature constant, with sufficient oxygen and free of dangerous toxins or bacteria that is right for the marine animals.

As international consumer demand for fish variety increases, life support systems have become more complex, however, when properly designed and maintained, this life support system helps to provide the right water quality, temperature, turnover and clarity for the animals, so that the grow rates are enhanced and animals' health improved!



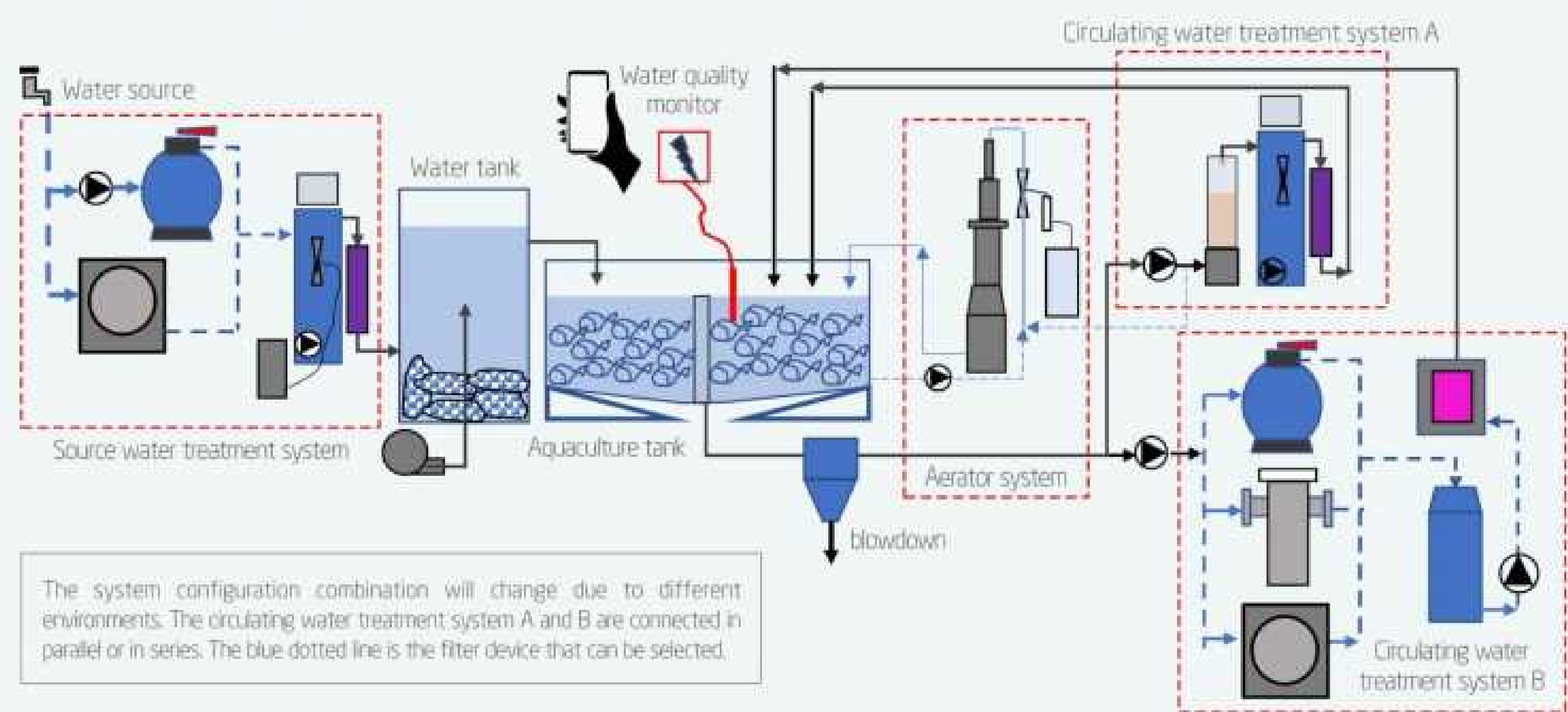


RECIRCULATING AQUACULTURE SYSTEM (RAS)

RAS is an advanced type of land-based fish farming technology which provides the solution to feed tomorrow's population while being responsible for the environmental resources. RAS is an integrated system and it is the direction of the current aquaculture, thereby achieving sustainable and green aquaculture development.

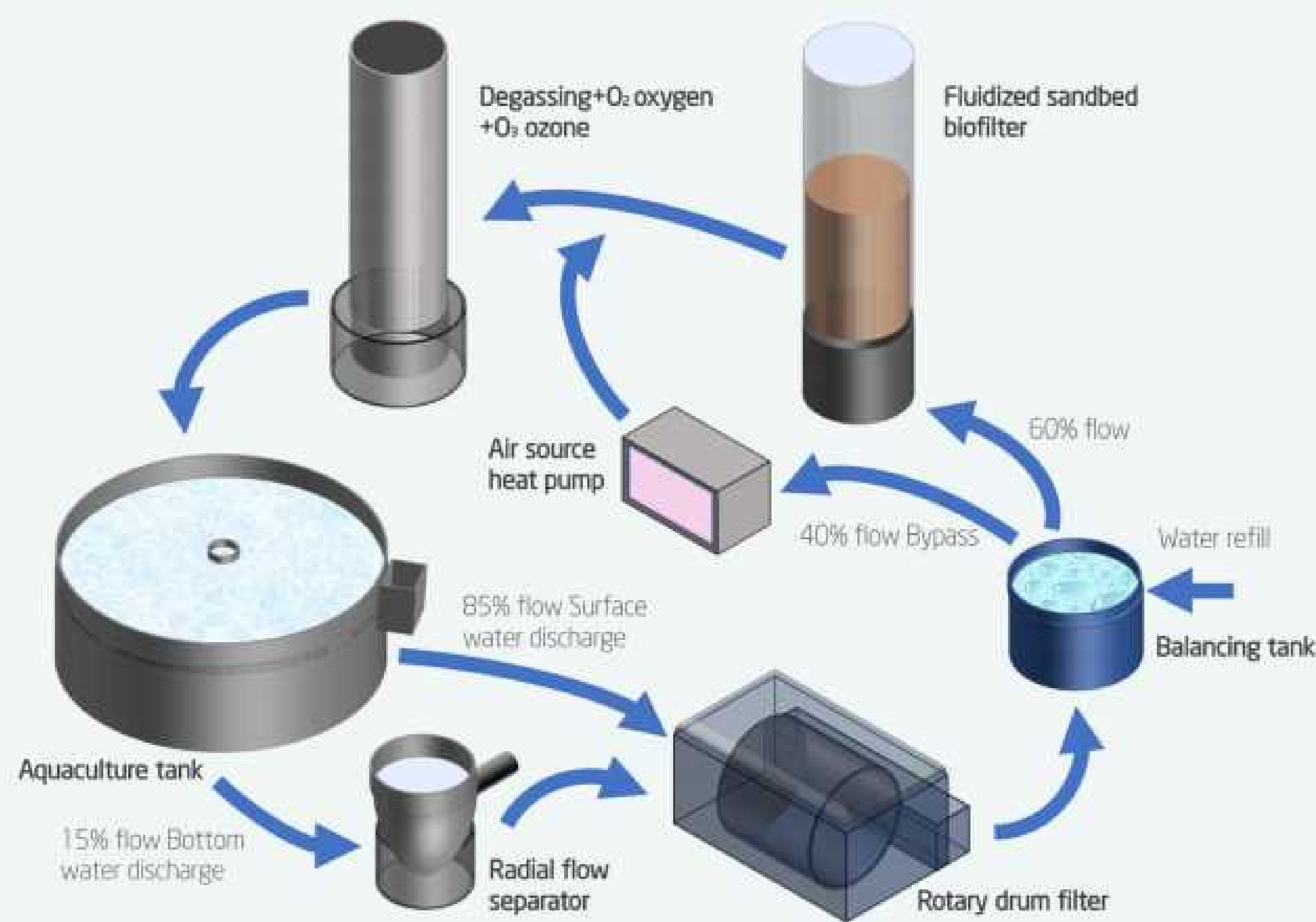
RAS uses a closed-loop water circulation system to maintain a controlled water environment, thus to reduce pollution, increase production, optimize quality and sell off-season. The system can be applied to both fresh water and sea water, and achieve the best temperature and stable year-round regardless of weather or environmental conditions.

RAS equipment flowchart

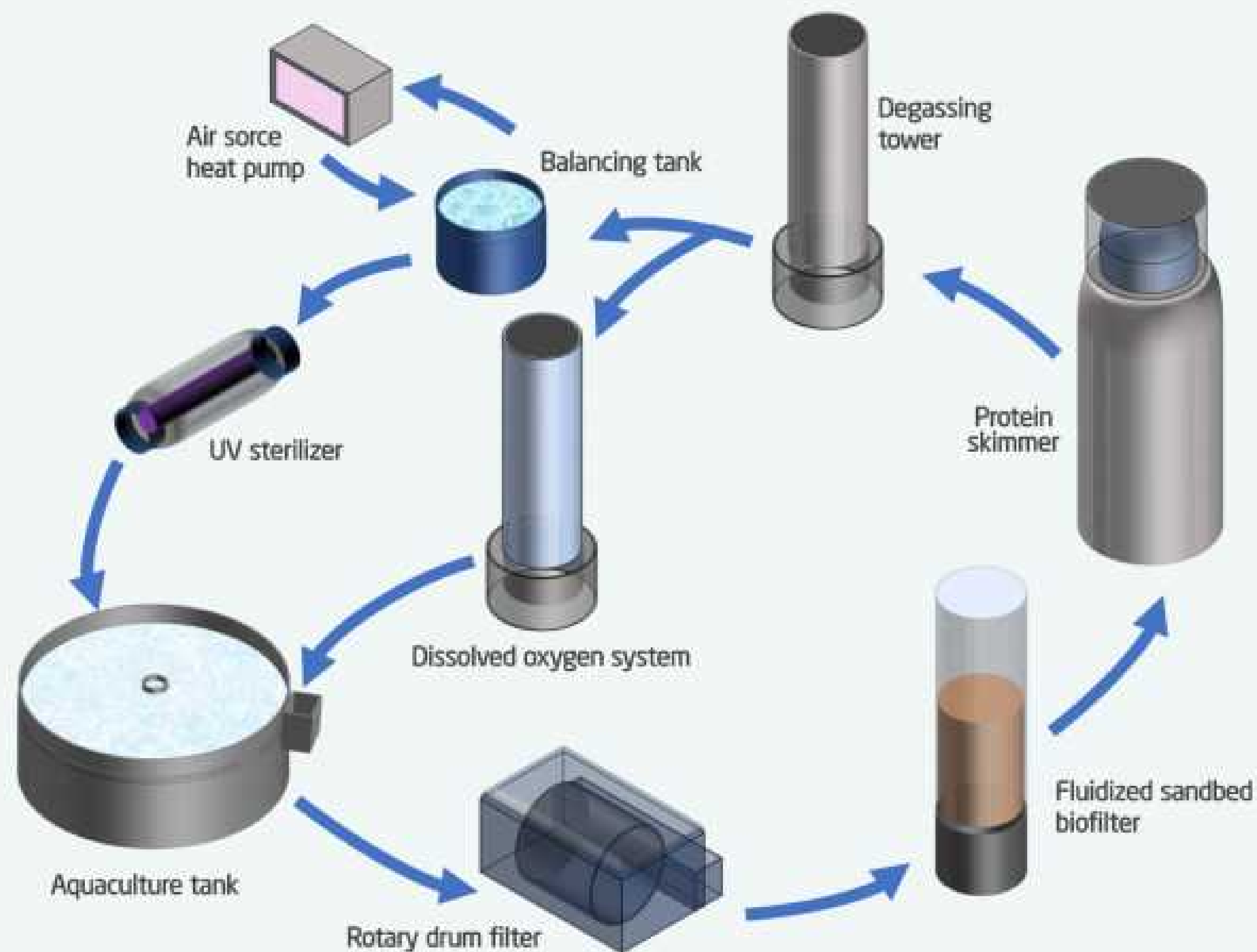


Equipment	Name	Equipment	Name	Equipment	Name	Equipment	Name	Equipment	Name
	Sand filter/ Carbon filter		Fluidized sandbed biofilter		UV sterilizer		Oxygenator		Basket strainer
	Rotary drum filter		Protein skimmer		Heat pump		Oxygenation Column		Degasser
	Ozone generator		Circulating pump		Air blower		Radial flow separator		

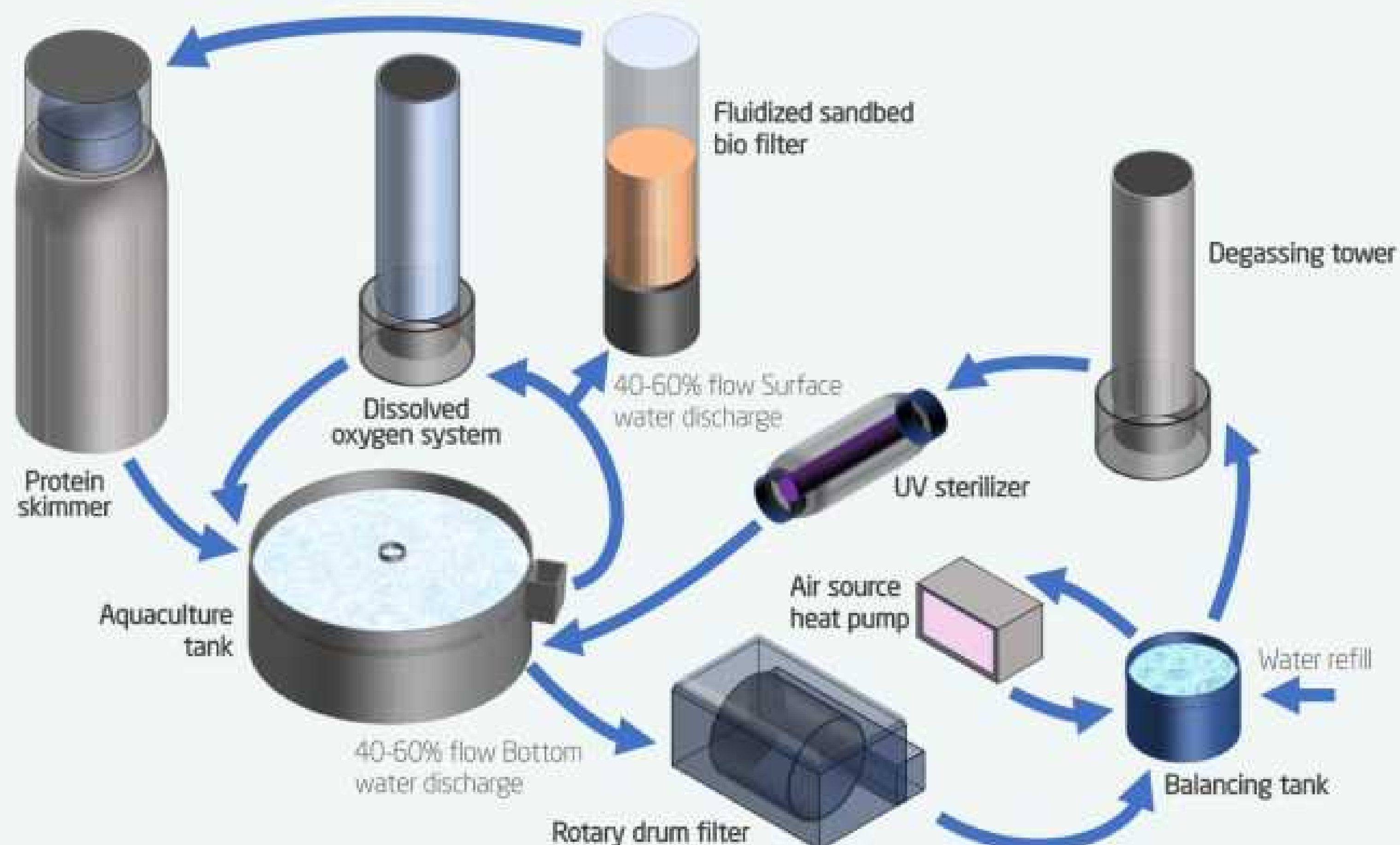
Marine water/freshwater recirculating aquaculture system



Marine water recirculating aquaculture system(RAS) - single system circulation

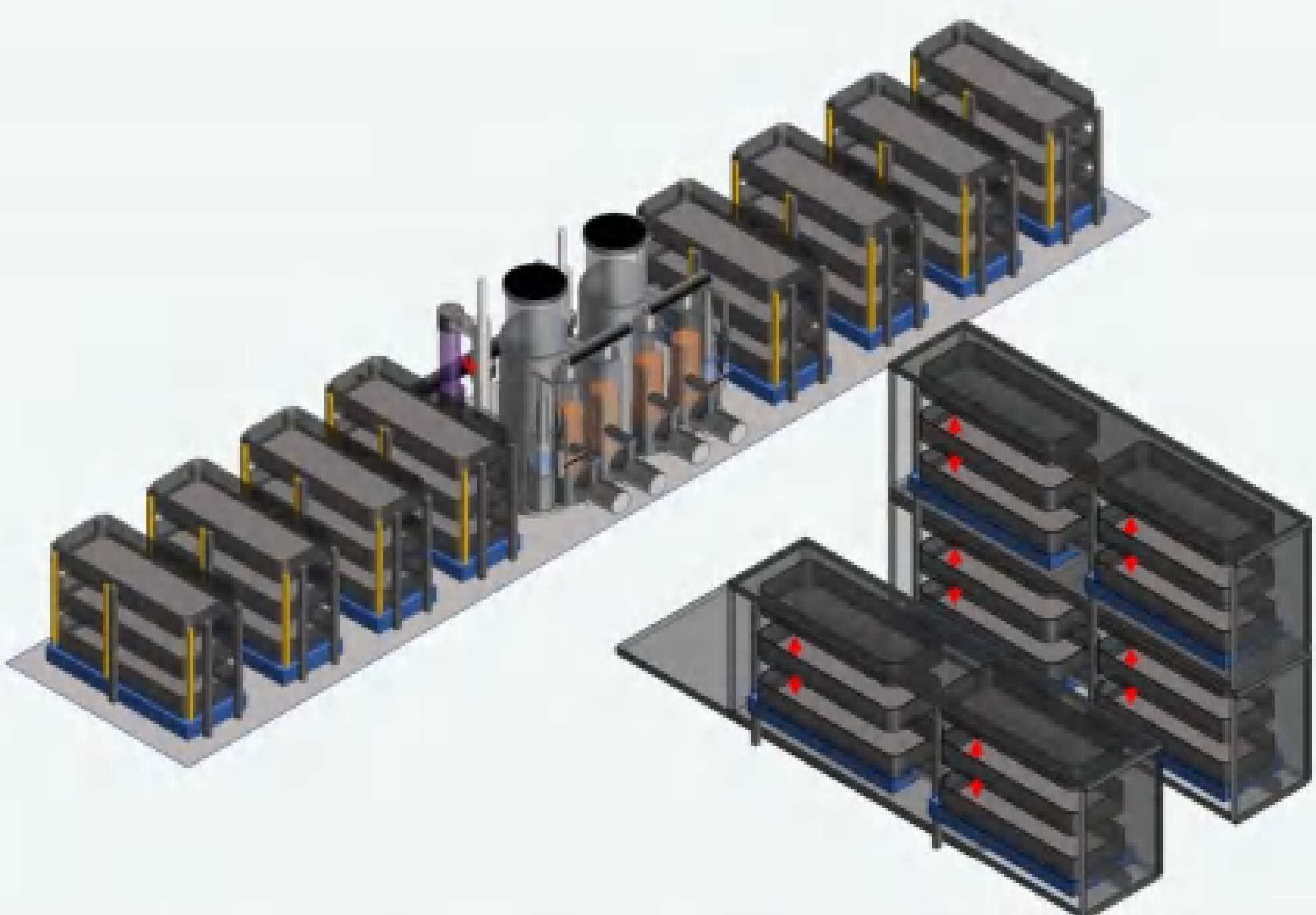


Marine water recirculating aquaculture system(RAS) - dual system circulation - physical treatment/biochemical treatment



Vertical Rearing RAS

Vertical rearing RAS requires little workshop construction costs and can be moved freely. The setting of the lifting system makes the aquaculture work more convenient. It only needs to be connected to the drainage and power supply to operate.



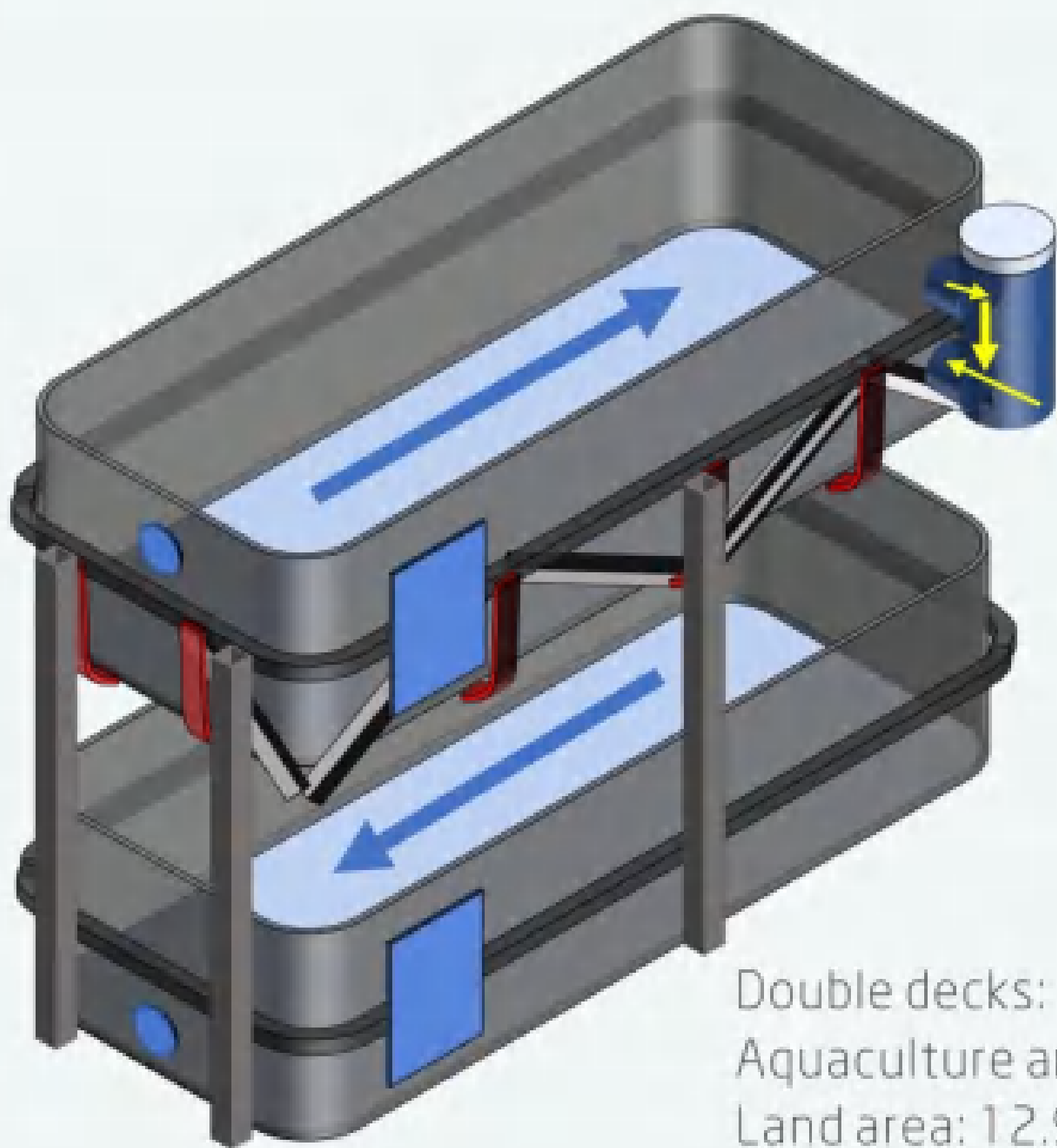
Standard 40 feet container aquaculture cases



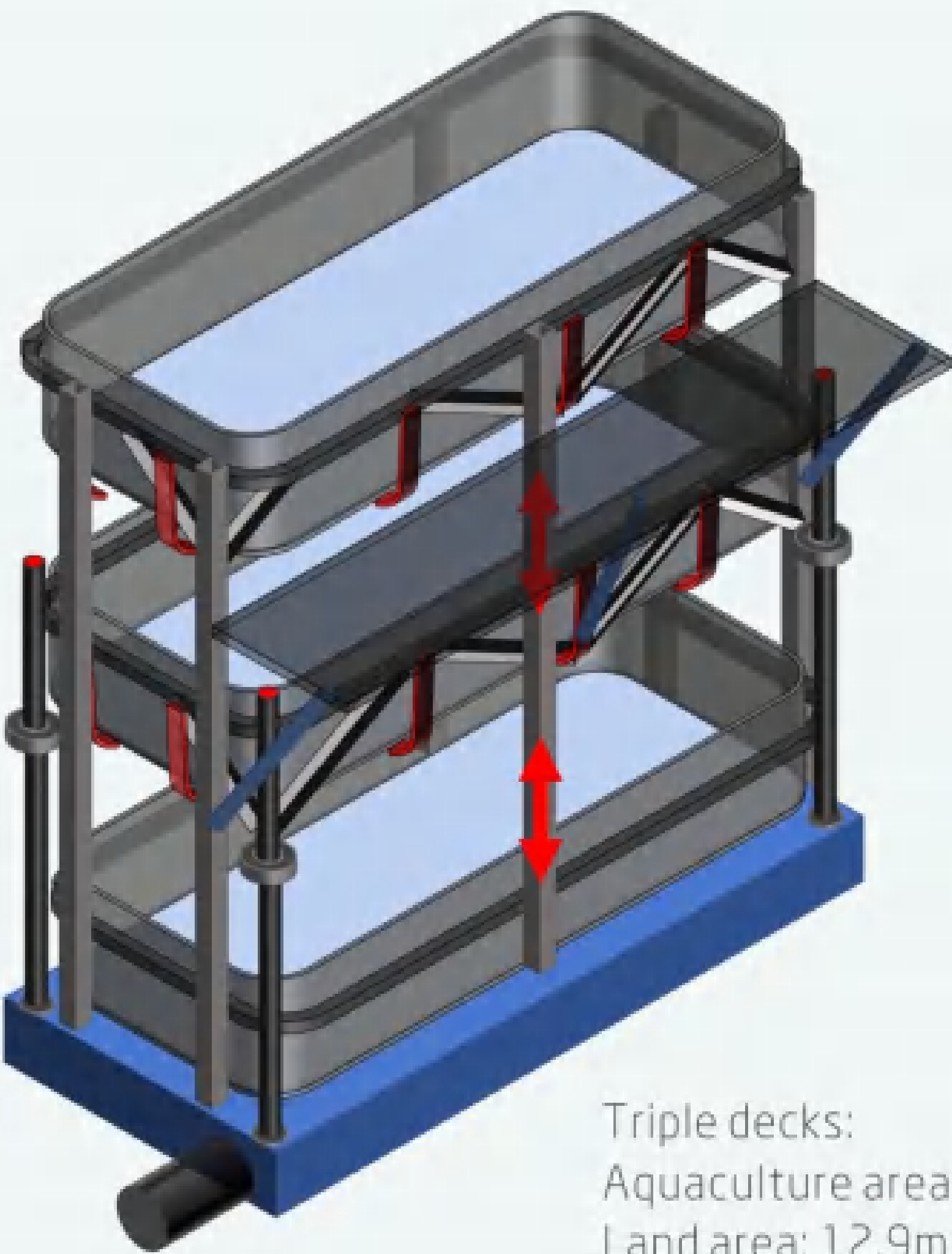
Vertical rearing RAS cases



Double - Triple decks(lifting) aquaculture system with LLDPE molded rearing tank in various height



Double decks:
Aquaculture area: 23.5m²
Land area: 12.9m²



Triple decks:
Aquaculture area: 36m²
Land area: 12.9m²

Compared with other fish farming systems, RAS has stable and high annual yield.



High yield

Small area, specially designed for land-based aquaculture, only 1/10 of the pond area.



Small footprint

Effectively control pathogens and reduce the risk of aquarium diseases.



Low risk

Seven major advantages of RAS

Sustainable, easy to manage, high yield
...

Balanced food nutrition, optimize quality and improve survival rate.



High quality

Intelligent water quality monitoring+Cloud storage+APP alerts, achieving intelligent aquaculture.



Intelligent control

The discharged wastewater can be returned to nature and reuse after being treated up to the standard, which is green and environmentally friendly.



Water saving and environmental protection

Special equipment improves the circulating water quality and effectively treats the ammonia nitrogen, carbon dioxide, and dissolved oxygen ratios in the water.



Purifying water quality

PROTEIN SKIMMER

Protein skimmer (also called foam fractionator) is an important physical device to improve the water quality of aquarium and aquaculture by removing suspended particulates, dissolved organics, fish food remains, proteins and tints from the water. At the same time, protein fractionation lowers bacteria and pathogen concentrations, while saturating the water with oxygen. The normal operation of protein skimmer plays an important role in reducing the load imposed on bio-filtration system.

LLDPE PROTEIN SKIMMER

The body of Laswim LLDPE series protein skimmer is made from UV rated and corrosion-resistant linear low density polyethylene (LLDPE) material, adopts one-piece rotational molding design, which minimize potential leaks and failures at seams and weld points. Equipped with an automatic washdown system and touch screen controller(optional) for easy and convenient programming of rinse cycles for the internal and external cone. The protein skimmer is designed to carry out the protein fractionation process efficiently and help to save the operation and maintenance cost. At the same time, stocking densities and growth rates are all enhanced and animal health improved. It is applicable for use in freshwater and seawater environments.



Freshwater models



Saltwater models

Features:

- High venturi air flow direct injection system.
- LLDPE main body, anti-UV and ozone rated.
- Large top cup for more contact surface for foam rise.
- Cost-saving dual rinse system, seawater for internal rinse and fresh water for top cup side rinse, with adjustable timer control.
- Retracting top cup seawater rinse spray head.
- Special tuned venturi injection pump for power efficiency and match performance with venturi injector.
- Air flow control for adjustment of air and ozone gas.
- Built in anti-backflow system for air and ozone gas piping.
- Floor mount location built-in for ease of installation.
- All clear acrylic top cup and funnel.
- Ozone vent and fresh air make up vent on top cup (optional).
- Pillow base included for injector pump.
- Sand blasted surface finish on main body for wear and cleanliness.
- 5 years warranty for main body, 1 year for other parts.

Application



Seawater venturi pump

Pump material	PPO+PPE+30% FRP
Shaft	316SS+PVC
Mechanical seal	High density silicon carbide surface
O-ring	Viton(high corrosion resistance)
Water proof standard	IP55(ODP)
Pump housing	Aluminum alloy
Power supply	220V/1N/50Hz,380V/3N/50Hz
Motor	2950rpm
Liquid temperature	5-50℃
Ambient temperature	50℃
Max. working pressure	0.3MPa



Technical parameters

Model	Flow rate (@120S) m³/h	Flow rate (@90S) m³/h	Diameter of reaction chamber (mm)	Total height (mm)	Footprint (mm)	Water Inlet Size (DN)	Water Inlet Height (mm)	Water Outlet Size (DN)	Water Outlet Height (mm)	Venturi Quantity (Set)	Venturi Pump Quantity (Set)	Rated Power (kW)	Recommended Ozone Injection Amount (g/h)
WL-LLDPE25	6.8	10.8	450	2445	1066×610	50	1430	50	1425	1	1	0.35	1
WL-LLDPE50	13.6	18.1	550	2515	1066×610	50	1595	80	1600	1	1	0.5	1
WL-LLDPE75	24	32	730	2591	1066×610	50	1595	80	1600	1	1	1	2
WL-LLDPE150	40	54	950	2565	1370×950	80	1485	100	1524	1	1	1.5	3
WL-LLDPE300	84	112.2	1350	2794	1800×1350	80×2	1530	150	1524	1	1	1.5	7
WL-LLDPE400	140.4	187.2	1500	3745	2370×1710	100×2	1910	200	2100	2	2	2.5	9
WL-LLDPE600	166	222	1650	3658	2530×1900	100×2	1988	200	2083	2	2	2	14
WL-LLDPE1000	282	376.7	2135	3873	3300×2400	150×2	1930	300	2042	4	4	2	23
WL-LLDPE2000	343	458.9	2135	4483	3300×2400	200×2	2540	400	2650	4	4	2	45
WL-LLDPE2500	397	527.9	2135	4883	3300×2400	200×2	2940	400	3050	4	4	2	50
WL-LLDPE300A	78.6	105	1200	3270	1900×1350	150	1740	200	1970	1	1	1.5	7
WL-LLDPE400A	140.4	187.2	1500	3745	2370×1710	250	1910	300	2100	2	2	2.5	9
WL-LLDPE600A	166	222	1650	3658	2530×1900	150×2	1988	250	2083	2	2	2	14
WL-LLDPE1000A	282	376.7	2135	3873	3300×2400	200×2	1930	350	2042	4	4	2	23

PP PROTEIN SKIMMER

LASWIM EPS protein skimmers are designed for high-density and RAS systems, efficiently removing dissolved organics, fine solids, and foam to maintain stable water quality and protect biofilters. An optimized venturi creates dense microbubbles for effective waste removal across all salinities, with global installations showing 40–60% reduced biofilter loading.



Features:

- High-Efficiency Bubble Separation: Venturi nozzles generate dense microbubbles for removal of proteins, fats, and dissolved organics.
- Corrosion-Resistant Build: Marine-grade PP, with optional titanium components for high-salinity use.
- Tool-Free Maintenance: Quick-release clamps for fast access, reducing downtime.
- Flexible Configuration: Vertical designs with customizable connections and sizes.
- Ozone-Ready: Integrated ports support ozone injection for improved water clarity.

Technical parameters

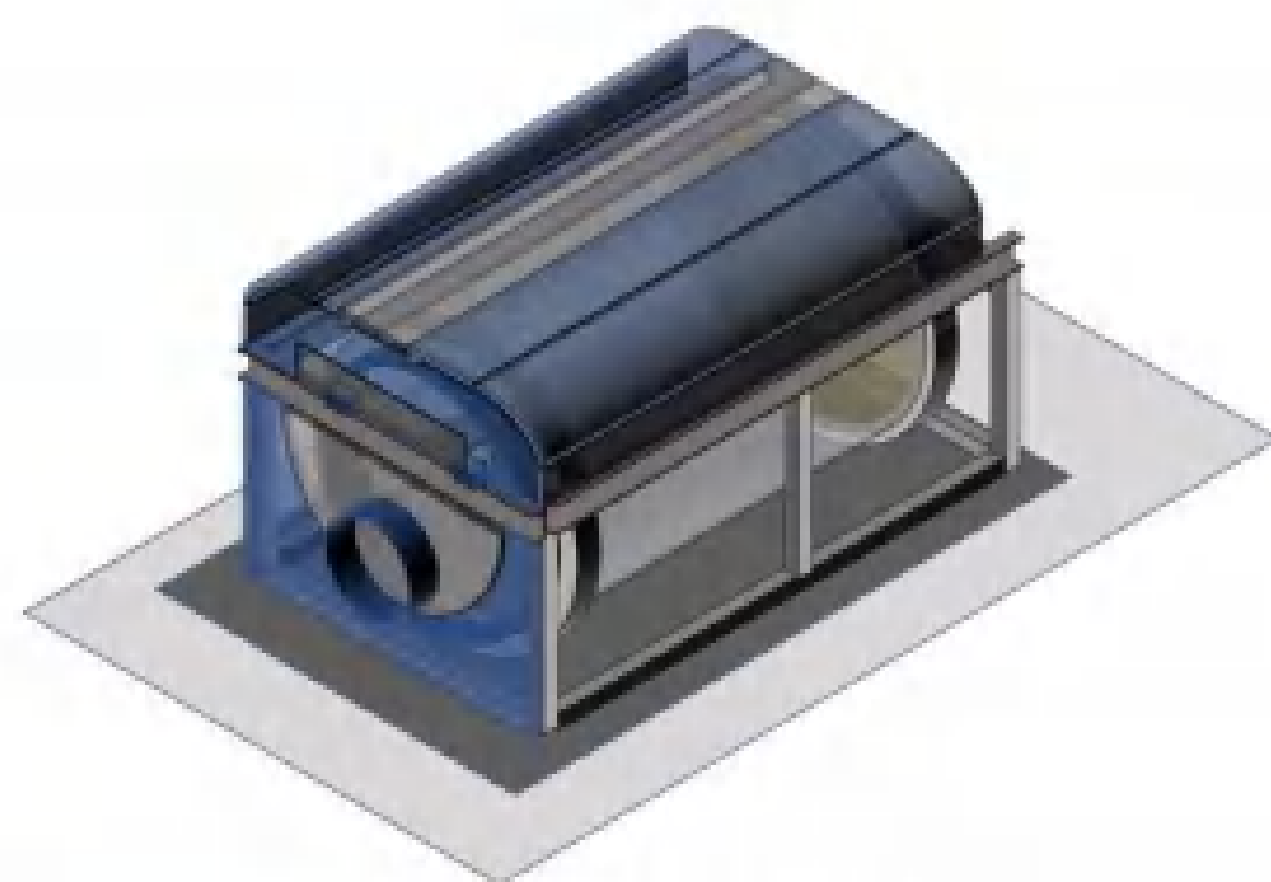
Model	Flow Rate (m³/h)	Net Size (mm)	Max Size (mm)	Water Inlet (mm)	Water Outlet (mm)	Jet Pump Power	Accessories
WL-EPS-30	30	Φ750×2800	Φ950×2700	110	160	1 unit 0.75kw	Equipped with jet system (ozone, pure oxygen, air interface)
WL-EPS-60	60	Φ800×2800	Φ1050×2800	160	160	1 unit 0.75kw	
WL-EPS-100	100	Φ950×2800	Φ1050×2800	160	200	1 unit 1.1kw	
WL-EPS-150	150	Φ1200×2800	Φ1450×2800	160	200	2 unit 1.1kw	
WL-EPS-200	200	Φ1450×2800	Φ1700×2800	200	250	3 unit 1.1kw	
WL-EPS-250	250	Φ1580×2800	Φ1900×2800	250	315	3 unit 1.1kw	
WL-EPS-300	300	Φ1780×2800	Φ2100×2800	250	315	3 unit 2.2kw	

ROTARY DRUM FILTER



RFF/RFM/RFI SERIES DRUM FILTER

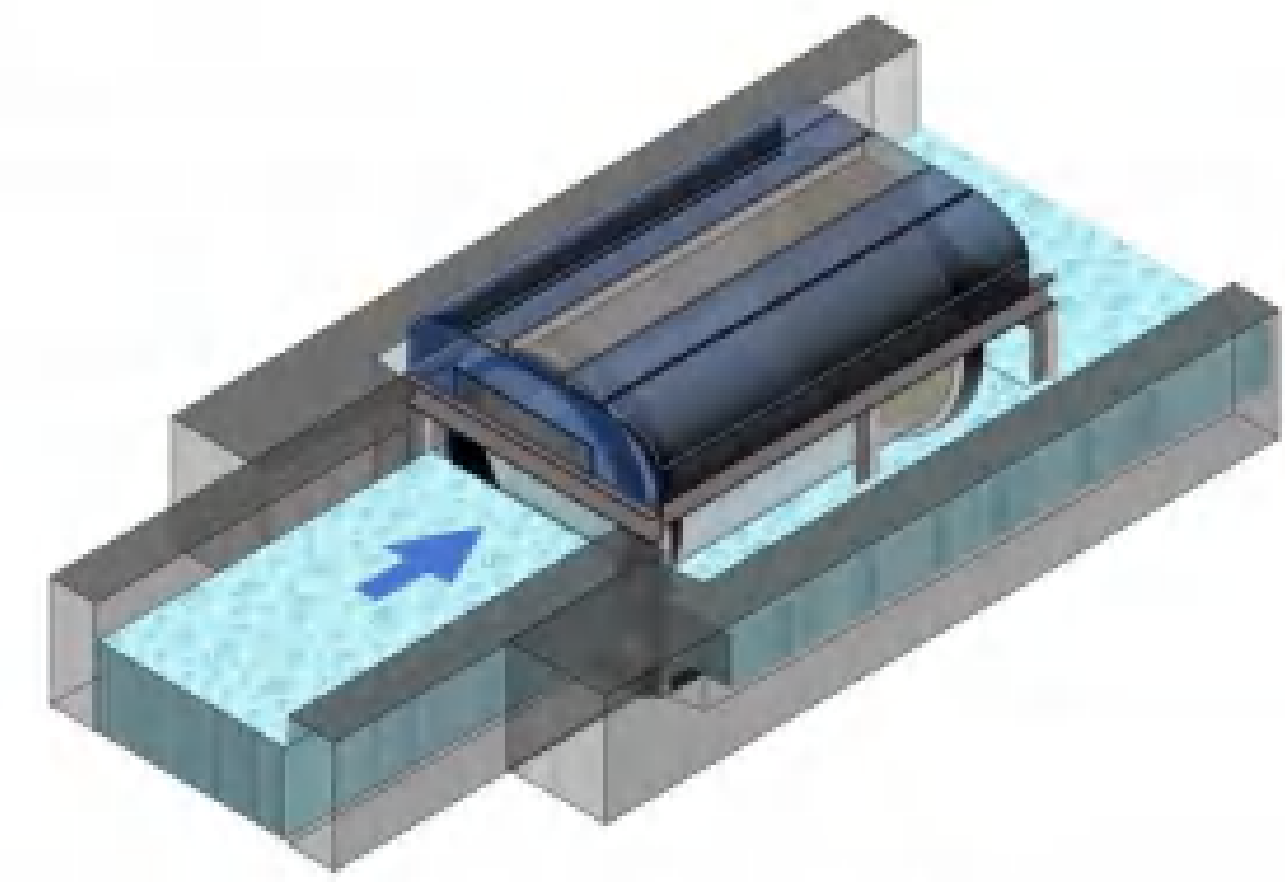
Drum filter is exceptional for recirculating aquaculture systems. Untreated water is gravity-fed into the drum, which is equipped with fine screens around its perimeter. As water passes through these screens, solids are effectively captured, allowing filtered water to exit by gravity. When solids accumulate, reducing filtration efficiency and raising the water level in the drum, backwash process will be activated, flushing trapped debris into a waste tray for easy removal.



Well type (RFF series)



Box type (RFM series)



Frame type (RFI series)

Features:

- Low power consumption and minimal maintenance.
- Modular filter panels, easy for installation and replacement.
- High-pressure backwash (0.6MPa) and low flow nozzle (0.8LPM), saves water and has a significant backwash effect.
- Backwashing is activated every 10 minutes under effective filtration (Adjustable subject to TSS value).
- Superior to traditional sand filter, effective filtration up to 20 microns (700 mesh).
- SS 304 or 316 frame and full 6063 aluminum alloy drum structure.

Applications:

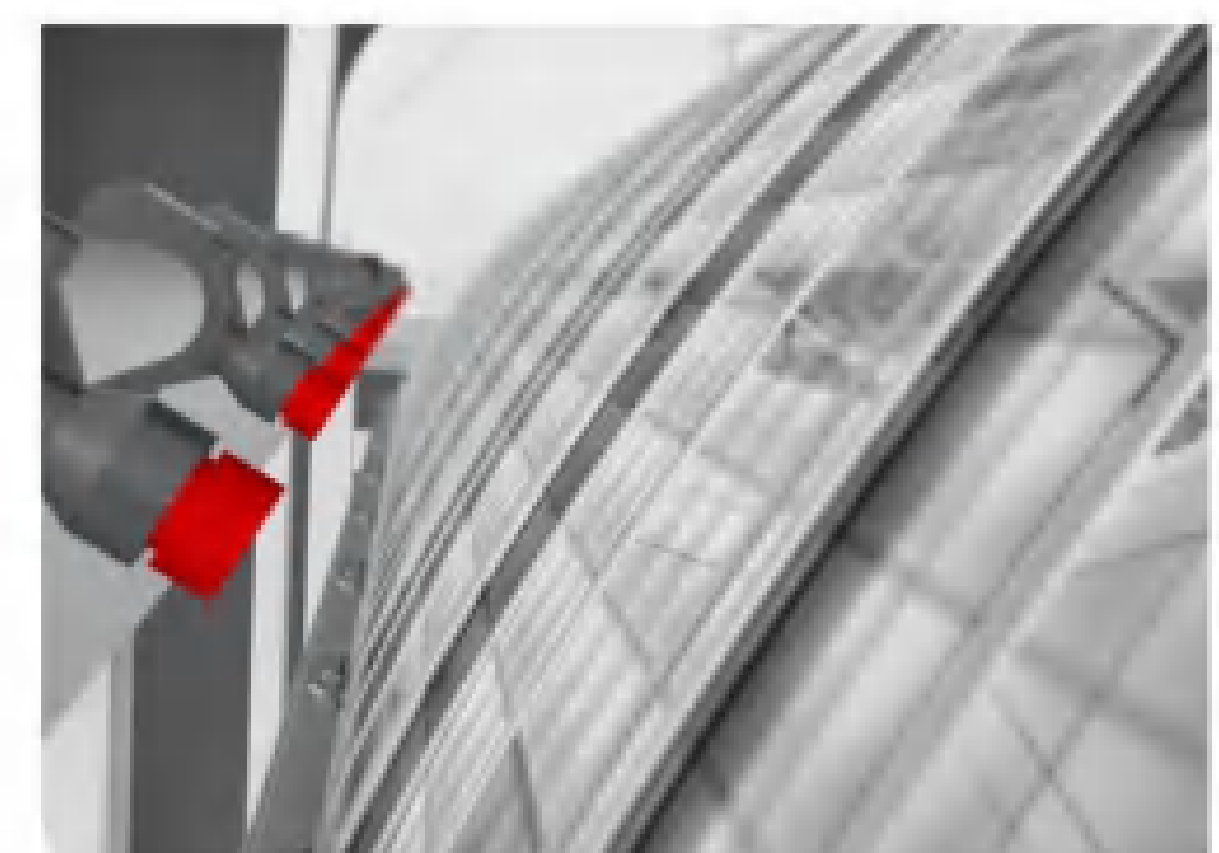
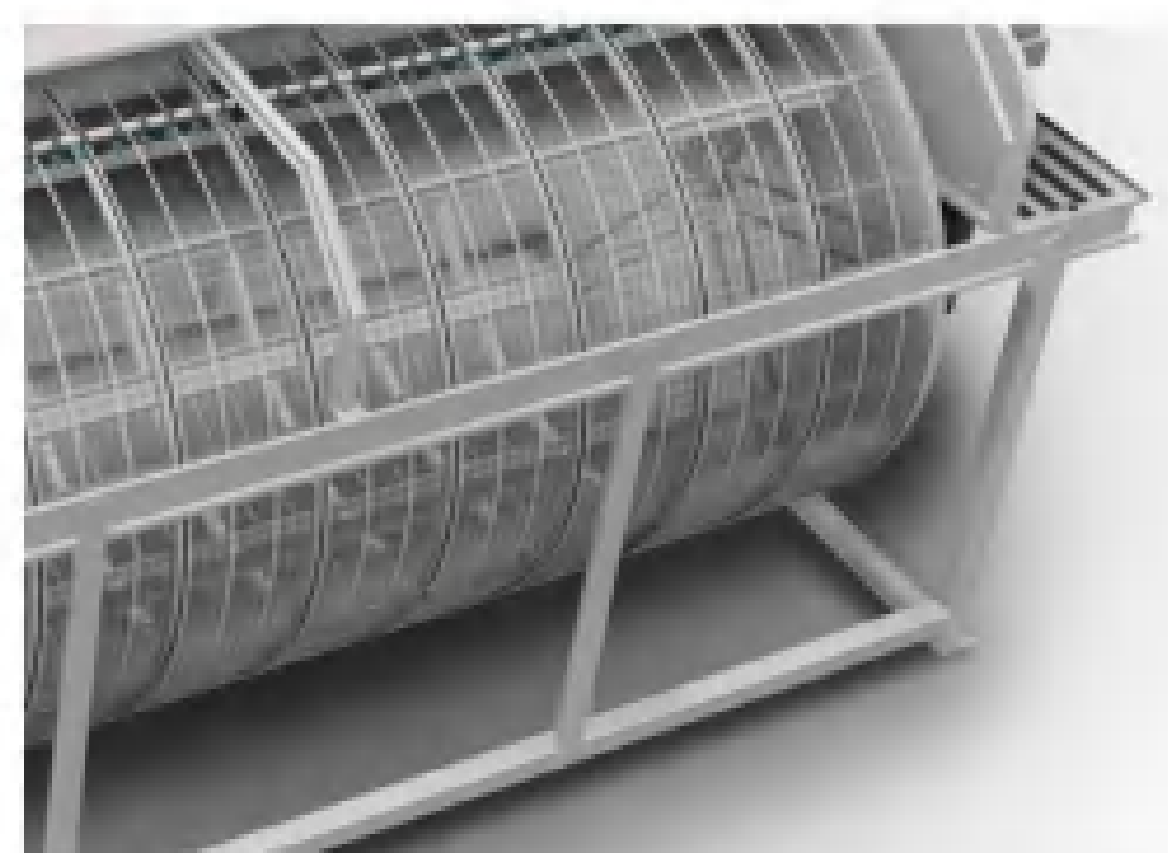
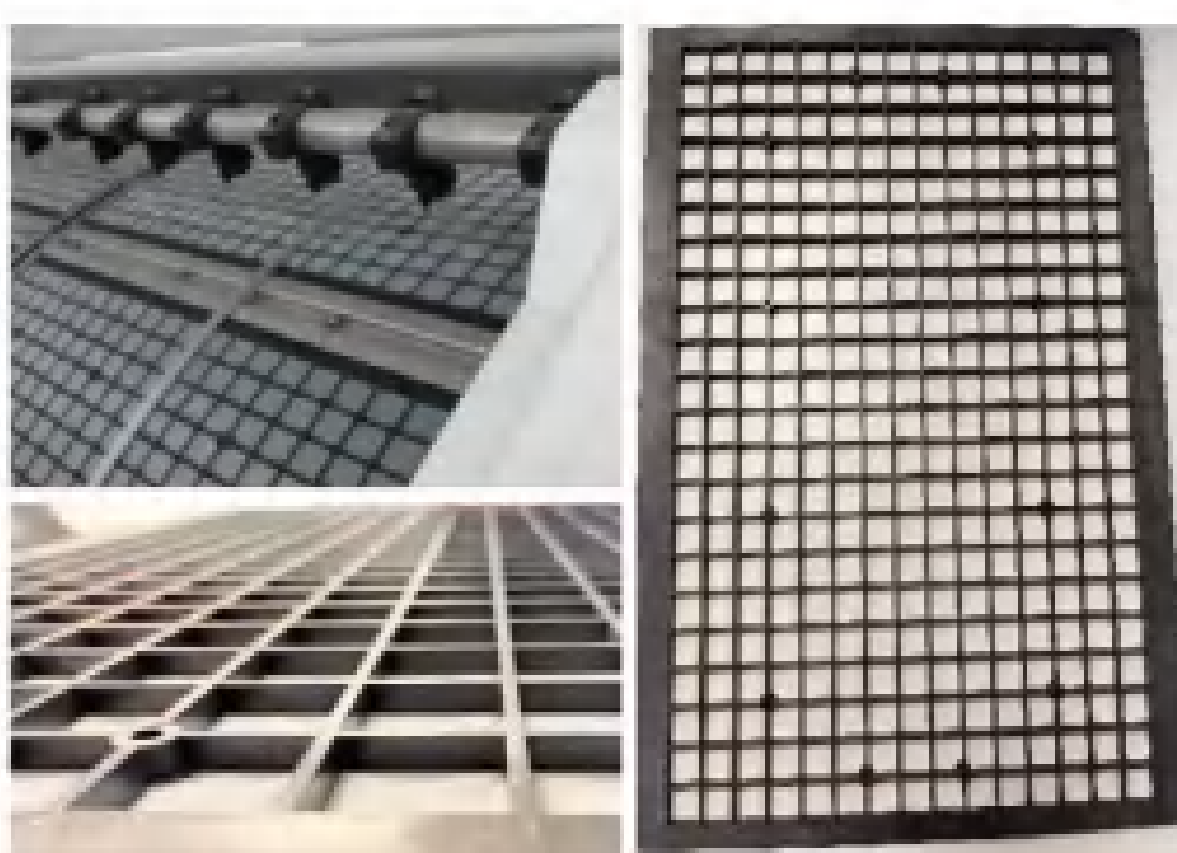
- Wastewater & seawater filtration
- Fish farm water treatment
- Municipal sewage systems

Highlights:

200 mesh (80 microns) to 625 mesh (20 microns) modular filter panels, effectively transfer solids to the backwash position.

Constructed with a 304 or 316 stainless steel frame and a 6063 (T5) aluminum alloy drum.

Features an efficient high-pressure and low-flow backwash system.



Product parameters

Model	Drive motor		Backwash pump		Total power consumption (W)	RFM (Box type)	RFF/RFI (Well type/frame type)	Water inlet (RFF/RFI/RFM)	Water outlet (RFM)
60120	1500	380-3	2200	380-3	185.0-370	-	3920×1800×1950	300-450	400-500
60096	750	380-3	2200	380-3	147.5-295	-	3300×1800×1950	300-450	400-500
60072	750	380-3	1500	380-3	112.5-225	-	2690×1800×1950	300-450	400-500
48072	400	380-3	1500	380-3	95.0-190	2620×1950×1500	2550×1450×1650	150-300	200-400
48048	400	380-3	1500	380-3	95.0-190	2000×1950×1500	1935×1450×1650	150-300	200-400
32054	200	220-1/380-3	1100	380-3	65.0-130	2120×1400×1080	2000×1080×1150	50-100	50-100
32036	200	220-1/380-3	1100	380-3	65.0-130	1660×1400×1080	1540×1080×1150	50-100	50-100
32018	200	220-1/380-3	750	380-3	47.5-95	1200×1400×1080	1080×1080×1150	50-100	50-100

Remarks: Usage frequency 5%-10%

32 Series

Model		RFF/RFM/RFI 32018			RFF/RFM/RFI 32036			RFF/RFM/RFI 32054		
		20μm 700mesh	40μm 300mesh	80μm 180mesh	20μm 700mesh	40μm 300mesh	80μm 180mesh	20μm 700mesh	40μm 300mesh	80μm 180mesh
Water quality TSS	Type	Flow rate m ³ /h			Flow rate m ³ /h			Flow rate m ³ /h		
TSS 10mg/L	Clean water source	54	94	134	108	188	268	162.5	282.5	402.3
TSS 15mg/L	Fish culture	49.5	87.5	125	99	175	251	148.6	262.9	377
TSS 25mg/L	Circulatory system - Low temperature	24.5	65.5	106	49	130	211	73.8	195.9	317.7
	Circulatory system - Temperature	17	45.5	74	34	91	148	50.7	136.8	222.9
TSS 40mg/L	Municipal drainage	10.5	12.5	15	21	25	30	30.9	37.95	45.2
Screen opening ratio		15%	25%	39%	15%	25%	39%	15%	25%	39%
Screen panel		4 (1 x 4)			8 (2 x 4)			12 (3 x 4)		

48 Series

Model		RFF/RFM/RFI 48048			RFF/RFM/RFI 48072		
		20μm 700mesh	40μm 300mesh	80μm 180mesh	20μm 700mesh	40μm 300mesh	80μm 180mesh
Water quality TSS	Type	Flow rate m ³ /h			Flow rate m ³ /h		
TSS 10mg/L	Clean water source	216	376	536	325	564	804
TSS 15mg/L	Fish culture	198	350	502	297	525	753
TSS 25mg/L	Circulatory system - Low temperature	98	261	423	147	391	634
	Circulatory system - Temperature	67.5	182	297	101	273	445
TSS 40mg/L	Municipal drainage	41	50	60	61	75	90
Screen opening ratio		15%	25%	39%	15%	25%	39%
Screen panel		16 (8 x 2)			24 (8 x 3)		

60 Series

Model		RFF/RFM/RFI 60072			RFF/RFM/RFI 60096			RFF/RFM/RFI 60120		
		20μm 700mesh	40μm 300mesh	80μm 180mesh	20μm 700mesh	40μm 300mesh	80μm 180mesh	20μm 700mesh	40μm 300mesh	80μm 180mesh
Water quality TSS	Type	Flow rate m ³ /h			Flow rate m ³ /h			Flow rate m ³ /h		
TSS 10mg/L	Clean water source	312	706	1006	415.7	941.6	1340.9	677.3	1176.8	1676.1
TSS 15mg/L	Fish culture	281	657	943	374.8	876.1	1256.8	618.9	1095.2	1571.1
TSS 25mg/L	Circulatory system - Low temperature	88	490	794	117.9	652.9	1059.3	307.9	816.1	1324.1
	Circulatory system - Temperature	72	342	558	95.4	456.1	743.4	210.9	570.2	929.3
TSS 40mg/L	Municipal drainage	58	95	113	77.9	126.8	150.7	128.9	158.4	188.2
Screen opening ratio		15%	25%	39%	15%	25%	39%	15%	25%	39%
Screen panel		30 (10 x 3)			40 (10 x 4)			50 (10 x 5)		

EDPP SERIES DRUM FILTER

Engineered for intensive RAS and high-density operations, LASWIM automatic Box-Type PP Drum Filter delivers reliable primary solids separation. Its robust PP housing and corrosion-resistant 316L stainless steel drum screen efficiently remove suspended solids down to 74 μ m. By ensuring crystal-clear water, it protects downstream biofilters and UV systems, maximizing their efficiency and longevity for a healthier, more stable aquaculture environment.



Features:

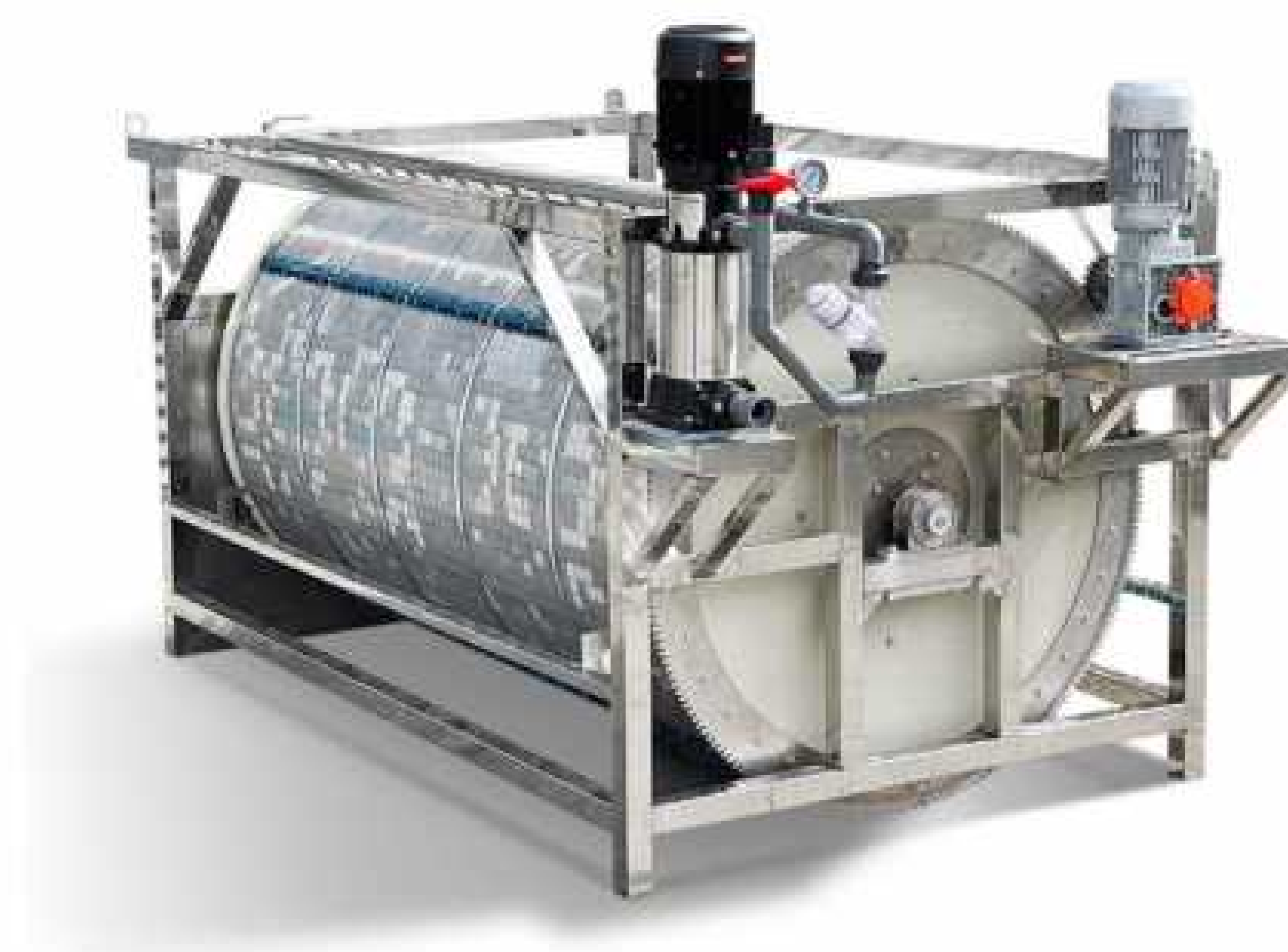
- Compact Design, Superior Filtration: Large filter area and fine screen apertures in a small footprint for high-efficiency solids removal.
- Robust Construction: 316L stainless steel screen and corrosion-resistant plastic housing ensure durability.
- Intelligent Self-Cleaning: Auto-mode detects blockage and triggers adjustable backwashing for consistent performance.
- Efficient Waste Handling: Angled tray design enables swift sludge discharge.
- Operational Simplicity: Easy to install, energy-efficient, stable, and simple to manage.

Technical parameters

Model	Flow Rate (m ³ /h)	Filtration Precision	Water Pump (m ³ /h)	Water Volume (m ³)	Size (mm)	Water Inlet (mm)	Water Outlet (mm)	Drum size (mm)	Motor Power (Kw)	Pump Power (Kw)
WL-EDPP-30	30	74 μ m(200 mesh)	≥ 30	30	1050×850×770	110	110	Φ510×390	0.12	0.37
WL-EDPP-60	60		≥ 60	60	1050×850×770	160	160	Φ800×745	0.37	0.55
WL-EDPP-100	100		≥ 100	100	1630×1120×1120	160-200	160-200	Φ800×1094	0.55	0.75
WL-EDPP-150	150		≥ 150	150	1990×1120×1120	200	250	Φ800×1444	0.65	0.75
WL-EDPP-200	200		≥ 200	200	1900×1800×1700	200	250	Φ1350×1110	0.75	1.5
WL-EDPP-300	300		≥ 300	300	2350×1800×1700	315	315	Φ1350×1500	0.75	1.5

KF SERIES DRUM FILTER

Designed for performance and reliability, this drum filter achieves precise micron-level filtration, supports high flow rates, and operates continuously with minimal oversight. The integrated automatic backwash function keeps the system self-cleaning and maintenance low. It is a versatile solution for critical applications such as drinking water, aquaculture, and industrial or municipal wastewater management.



Features:

- High Precision: Micron-level mesh removes fine solids, colloids, and bacteria for clean effluent.
- High Throughput: Optimized design handles large water volumes efficiently.
- Auto Backwash: Self-cleaning reverse flow maintains performance without downtime.
- Reliable Operation: Low-maintenance design with smart monitoring and controls.
- Wide Use: Suitable for drinking water, aquaculture, and industrial wastewater.

Technical parameters

Model	Flow Rate (m³/h)	Filtration Precision	Water Pump (m³/h)	Water Volume (m³)	Size (mm)	Water Inlet (mm)	Water Outlet (mm)	Motor Power (KW)	Pump Power (KW)
WL-KF-100	100	74µm(200 mesh)	≥100	100	1680×1280×1380	200	200	0.55	1.1
WL-KF-200	200		≥200	200	2030×1520×1500		200	0.75	1.5
WL-KF-300	300		≥300	300	2380×1520×1500		200	0.75	2.2
WL-KF-400	400		≥400	400	2750×1520×1500		250	1.1	2.2
WL-KF-500	500		≥500	500	2750×1800×1780		250	1.1	2.2
WL-KF-600	600		≥600	600	3120×1800×1900		250	1.1	2.2

CS SERIES DRUM FILTER

Protect your RAS investment with LASWIM 304 stainless-steel drum filter. Installed upfront, it prevents downstream fouling by removing 74 µm fine solids, ensuring the biofilters and UV systems operate at peak efficiency. Featuring automatic backwash, it maintains stable hydraulics with minimal intervention, delivering reliable performance across freshwater, brackish, and marine systems.



Features:

- **Heavy-Duty Drum Screens:** 40–100 µm stainless steel mesh for efficient solids removal with stable, gear-driven rotation.
- **Modular Installation:** Configurable standalone or multi-tank setups with side inlet/bottom outlet for optimal flow.
- **Tool-Free Maintenance:** Quick-access spray bars and backwash components reduce service time by up to 40%.
- **Material options:** Corrosion-resistant PP, HDPE or 316L stainless steel available for seawater applications.
- **Energy-Efficient Drive:** Low-speed motors with overload protection; optional VFD/PLC integration.
- **Proven Performance:** Widely used in hatcheries and farms across Europe, Southeast Asia, and Latin America.

Technical parameters

Model	Flow Rate (m³/h)	Filtration Precision	Water Pump (m³/h)	Water Volume (m³)	Size (mm)	Drum Size (mm)	Voltage (V)	Motor Power (Kw)	Pump Power (Kw)
WL-CS-100	100	74µm(200 mesh)	≥100	100	1680×1280×1600	Φ1020×1065	380V	0.75	1.1
WL-CS-200	200		≥200	200	2030×1520×1780	Φ1280×1415		0.75	1.5
WL-CS-300	300		≥300	300	2380×1520×1780	Φ1280×1765		0.75	2.2
WL-CS-400	400		≥400	400	2750×1520×1830	Φ1280×2115		1.1	2.2
WL-CS-500	500		≥500	500	2750×1800×2020	Φ1530×2115		1.1	2.2
WL-CS-600	600		≥600	600	3120×1800×2020	Φ1530×2465		1.1	2.2

MECHANICAL FILTRATION



ADG SERIES SAND FILTER

Top mount vertical sand filters are built to be tougher, longer lasting and better performing. Constructed of polyester resin and non-corrosive extra-thick fiberglass filament winding, all internal components and connections are injection molded PVC. UV-resistance surface allows working under sunshine. Easy-to-use six position valve makes you select any of the valve/filter operation in a proper way, side mount sand filter is also available.

- FILTER (Normal filtration and vacuuming).
- BACKWASH (Clean filter by reversing the flow).
- RINSE (Used after backwash to flush dirt from valve).
- WASTE (By-passes filter, used for vacuuming to waste or lowering water level).
- RECIRCULATE (By-passes filter for circulating water to pool).
- CLOSE.

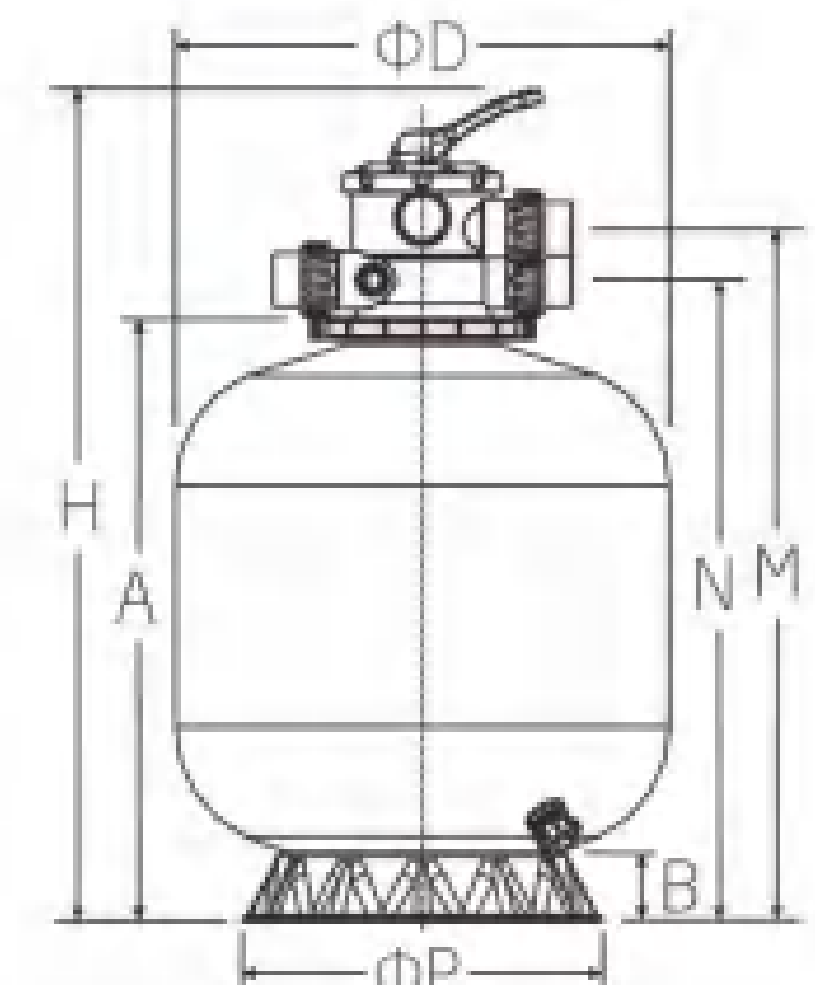
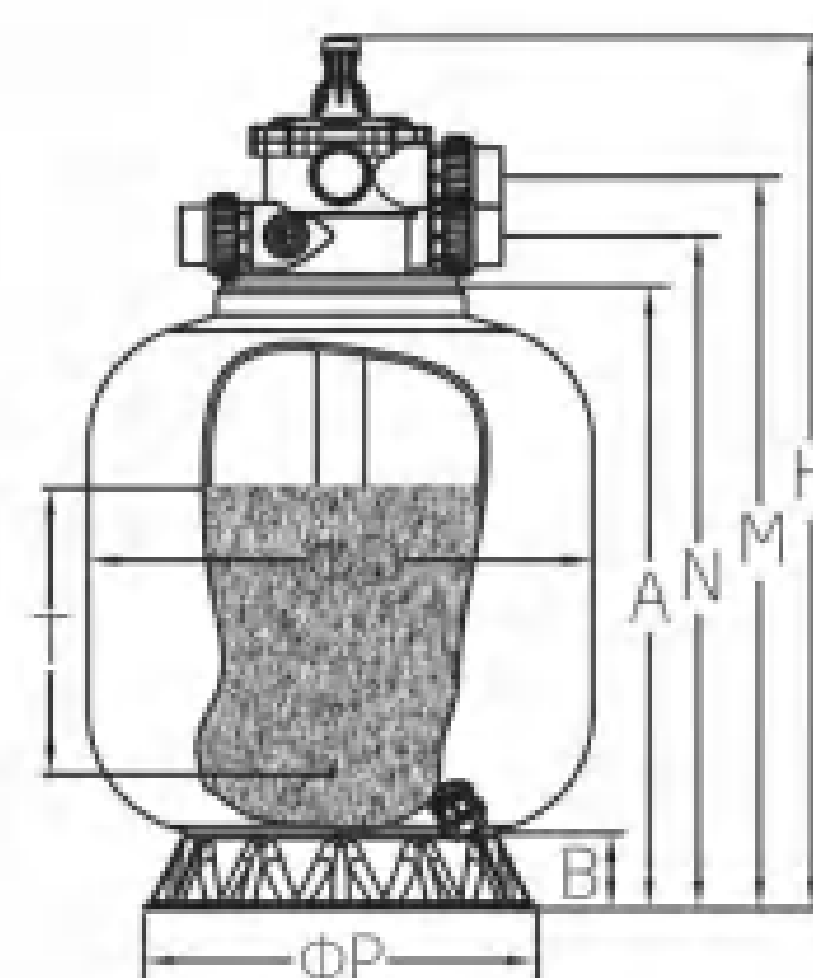


WL-ADG350~WL-ADG700



WL-ADG800~WL-ADG1400

ΦD(mm)	800	900	1000	1100	1200	1400
H(mm)	1130	1270	1340	1460	1540	1750
A(mm)	830	970	1040	1160	1240	1450
B(mm)	150	150	150	180	180	180
M(mm)	972	1112	1182	1302	1392	1592
N(mm)	892	1032	1102	1222	1312	1512
ΦP(mm)	790	790	790	1010	1010	1010
T(mm)	490	500	580	600	750	900



Model	Pipe Size (inches)	Filter Area (m ²)	Design Flow (m ³ /h)	0.5-0.8mm Sand Weight (kg)	Tank Volume (m ³)	Valve Volume (m ³)	Tank Weight (kg)	Valve Weight (kg)
WL-ADG350	1.5	0.1	4.5	25	0.06	0.02	4.5	3
WL-ADG400	1.5	0.13	6.5	34	0.09	0.02	5.5	3
WL-ADG450	1.5	0.16	8.0	50	0.15	0.02	7.0	3
WL-ADG500	1.5	0.23	11.5	80	0.20	0.02	9.8	3
WL-ADG650	1.5	0.32	16.0	160	0.32	0.02	13.0	3
WL-ADG700	1.5	0.40	20.0	220	0.42	0.02	18.5	3
WL-ADG800	2.0	0.50	25.0	370	0.68	0.03	41.0	5
WL-ADG900	2.0	0.64	30.0	447	0.95	0.03	48.0	5
WL-ADG1000	2.0	0.79	35.0	700	1.29	0.03	58.0	5
WL-ADG1200	2.0	1.13	50.0	960	2.26	0.03	68.0	5
WL-ADG1400	2.0	1.53	68.0	1300	3.50	0.03	110.0	5

STANDARD: MAX. WORKING PRESSURE: 36psi/2.5kg/cm²

MAX. OPERATING WATER TEMPERATURE≤50°C

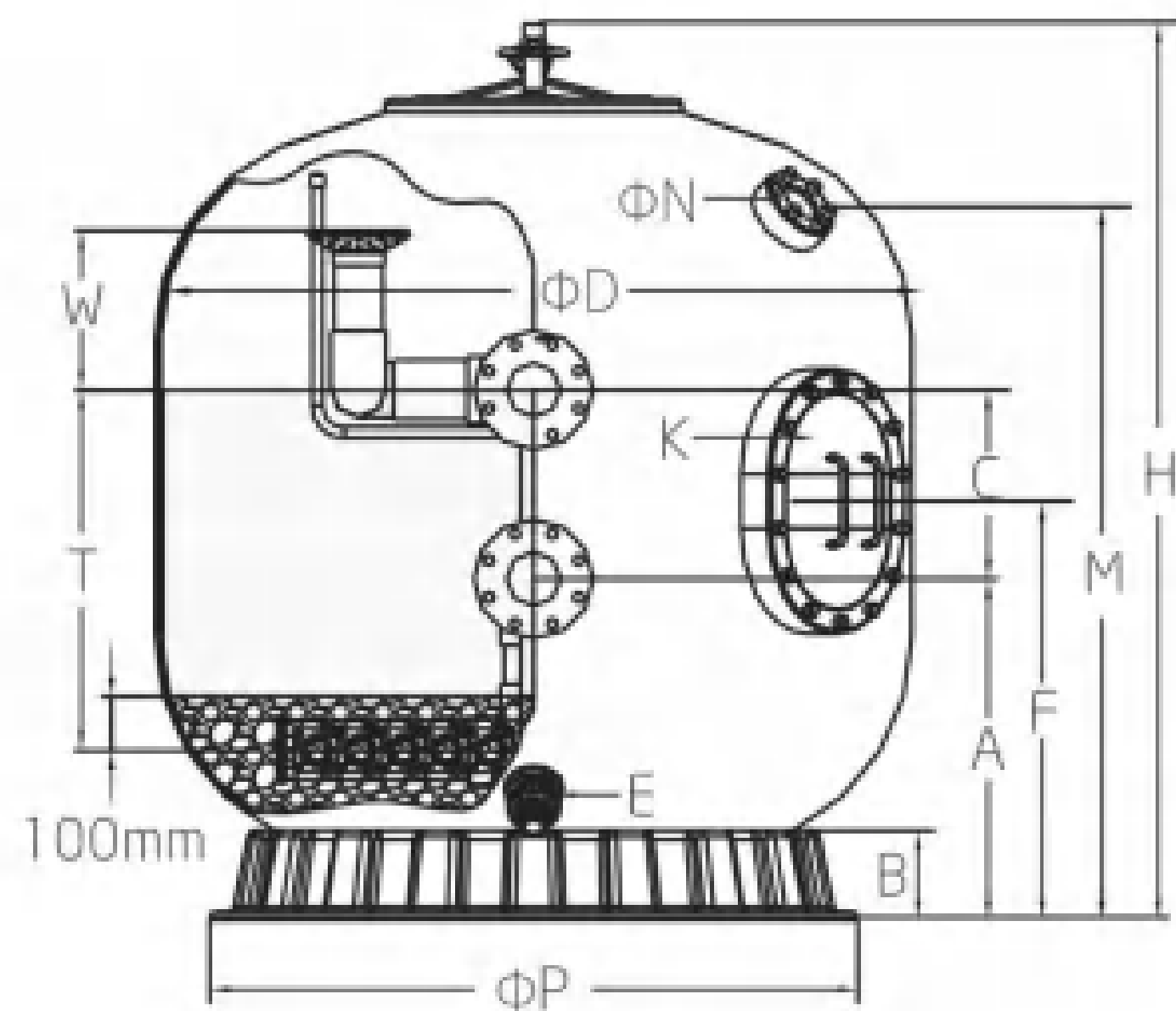
MAX. TESTING PRESSURE: 60psi

CCG SERIES COMMERCIAL SAND FILTER



This series commercial sand filters are built to be tougher, longer lasting and better performance. Constructed of polyester resin and non-corrosive fiberglass filament winding. All internal components and connections are injection molded PVC. UV-resistant surface allows working under sunshine. Spherical body with uniform thickness, can bear the water pressure evenly. Manhole is optional for easy maintenance. Applicable for aquarium and aquaculture.

Optional accessories: sight glass, manhole, air purge, nozzle plate



with lateral

D (mm)	1200	1400	1600	1800	2000	2300	2500
H (mm)	1400	1670	1750	1950	2140	2350	2450
A (mm)	560	650	680	730	800	940	960
B (mm)	165	165	215	215	240	240	240
C (mm)	340	350	450	550	550	600	600
E (mm)	60	60	60	60	60	60	60
F (mm)	740	800	875	910	1050	1070	1100
K (mm)	180x180	400x300	400x300	400x300	400x300	450x300	450x350
M (mm)	1150	1250	1450	1650	1700	1800	1900
N (mm)	80	80	80	80	80	80	80
P (mm)	1010	1215	1450	1610	1800	2010	2010
T (mm)	600	700	800	850	900	1000	1050
W (mm)	300	300	320	320	350	400	400

Model	Pipe Size		Filter Area (m ²)	Design Flow (m ³ /h)	0.4-0.8mm Sand Weight (kg)	1-2mm Gravel Weight (kg)	Tank Diameter (mm)	Tank Height (mm)
	inches	mm						
WL-CCG1200	3	90	1.13	45	750	300	1200	1400
WL-CCG1400	4	110	1.54	61	1200	500	1400	1670
WL-CCG1600	4	110	2.01	80	1850	750	1600	1750
WL-CCG1800	6	160	2.54	101	2500	1050	1800	1950
WL-CCG2000	6	160	3.14	125	3300	1150	2000	2140
WL-CCG2200	6	160	3.80	152	4150	1470	2200	2350
WL-CCG2300	8	200	4.15	166	4900	1600	2300	2350
WL-CCG2500	8	200	4.90	196	6000	2200	2500	2450
WL-CCG3000	8	200	7.07	282	8600	3300	3000	2650

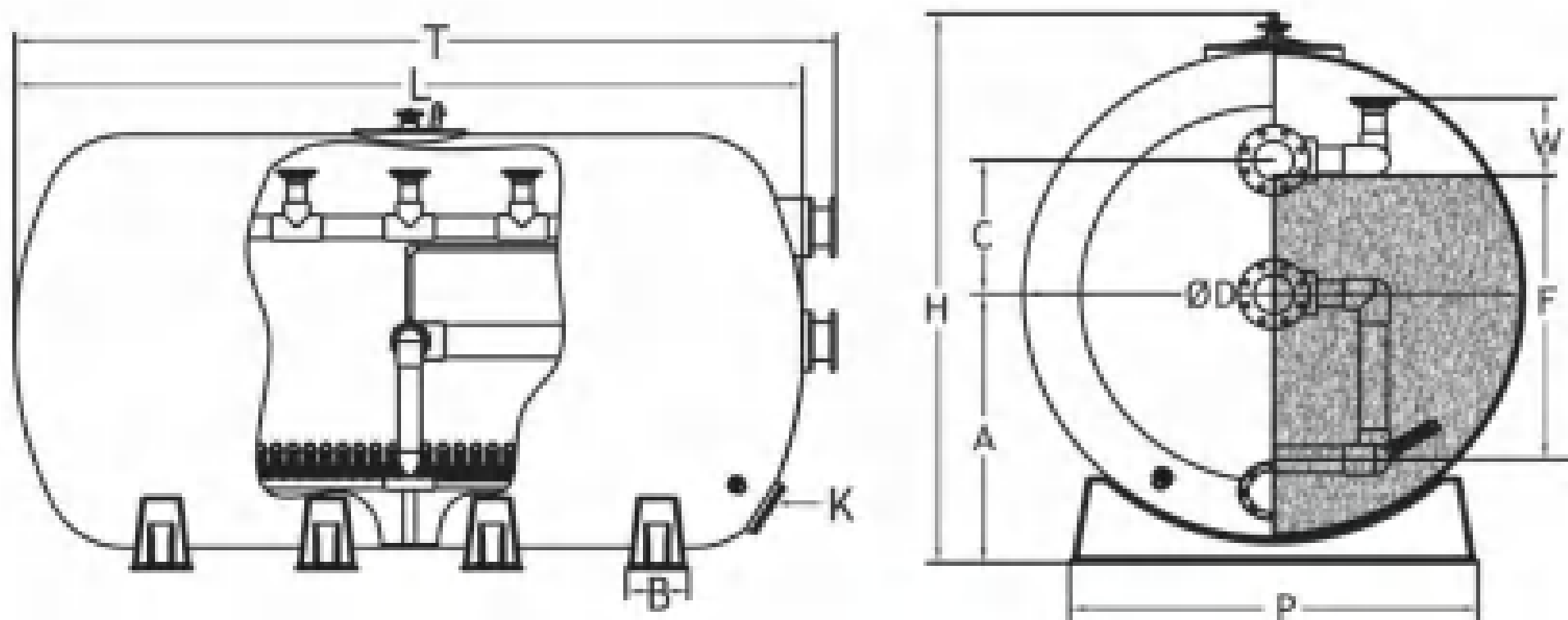
STANDARD: MAXIMUM WORKING PRESSURE: 36psi/2.5kg/cm²
OPTIONAL: MAXIMUM WORKING PRESSURE: 58psi/4.0kg/cm²

MAXIMUM TEMPERATURE: 50°C
MAXIMUM TEMPERATURE: 500

HF SERIES HORIZONTAL SAND FILTER

This series commercial sand filters are built to be tougher, longer lasting and better performance. Constructed of polyester resin and non-corrosive fiberglass filament winding. All internal components and connections are injection molded PVC. UV-resistant surface allows working under sunshine. Spherical body with uniform thickness, can bear the water pressure evenly, Manhole is optional for easy maintenance. Applicable for aquarium and aquaculture.

MECHANICAL
FILTRATION



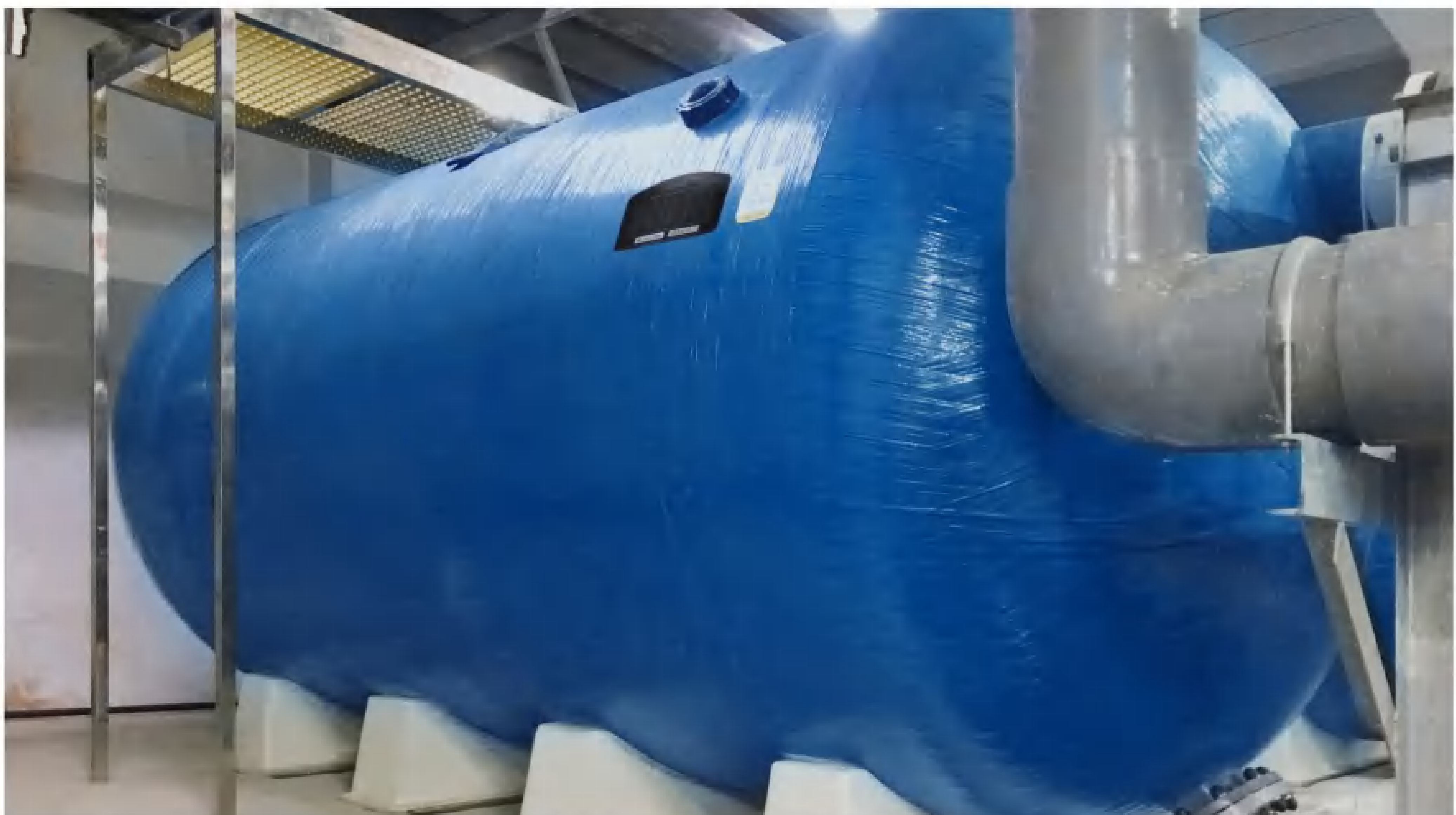
Manhole

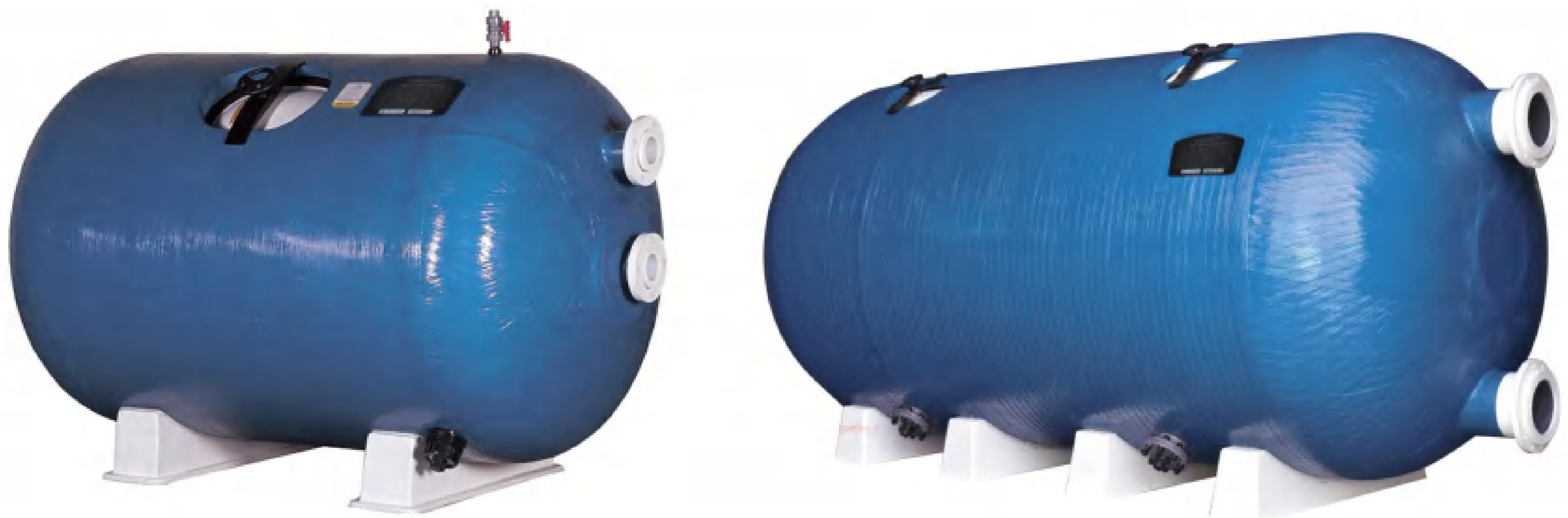


Collector arms



Nozzle plate(optional)





Φ1200mm

Model	Diameter (mm)	Height (mm)	Flow velocity (m ³ /h/m ²)	Pipe size		Design flow (m ³)	Filter area (m ²)	0.5-0.8mm Sand weight(kg)	1-2mm Gravel weight(kg)
				mm	inches				
WL-HF121900	1200	1390	20	90	3"	39	1.96	1100	430
			30	110	4"	59			
			40	160	6"	79			
WL-HF122300	1200	1390	20	110	4"	48	2.42	1430	550
			30	160	6"	73			
			40	160	6"	97			
WL-HF122500	1200	1390	20	110	4"	53	2.65	1750	700
			30	160	6"	79			
			40	160	6"	106			
WL-HF122700	1200	1390	20	110	4"	57	2.87	2080	830
			30	160	6"	86			
			40	160	6"	115			
WL-HF123000	1200	1390	20	110	4"	64	3.21	2330	925
			30	160	6"	96			
			40	160	6"	129			

Φ1400mm

Model	Diameter (mm)	Height (mm)	Flow velocity (m ³ /h/m ²)	Pipe size		Design flow (m ³)	Filter area (m ²)	0.5-0.8mm Sand weight(kg)	1-2mm Gravel weight(kg)
				mm	inches				
WL-HF141900	1400	1600	20	110	4"	45	2.23	2000	580
			30	110	4"	67			
			40	160	6"	89			
WL-HF142500	1400	1600	20	110	4"	60	3.02	2750	800
			30	160	6"	91			
			40	160	6"	121			
WL-HF143000	1400	1600	20	160	6"	73	3.67	3375	1000
			30	160	6"	110			
			40	160	6"	147			

Φ1600mm

Model	Diameter (mm)	Height (mm)	Flow velocity (m ³ /h/m ²)	Pipe size		Design flow (m ³)	Filter area (m ²)	0.5-0.8mm Sand weight(kg)	1-2mm Gravel weight(kg)
				mm	inches				
WL-HF161900	1600	1830	20	110	4"	49	2.47	2800	600
			30	160	6"	74			
			40	160	6"	99			
WL-HF162500	1600	1830	20	110	4"	67	3.36	3800	850
			30	160	6"	101			
			40	160	6"	134			
WL-HF163000	1600	1830	20	160	6"	82	4.10	4700	1050
			30	160	6"	123			
			40	200	8"	164			

Φ1800mm

Model	Diameter (mm)	Height (mm)	Flow velocity (m ³ /h/m ²)	Pipe size		Design flow (m ³)	Filter area (m ²)	0.5-0.8mm Sand weight(kg)	1-2mm Gravel weight(kg)
				mm	inches				
WL-HF182500	1800	2050	20	160	6"	75	3.74	4850	980
			30	160	6"	112			
			40	160	6"	150			
WL-HF183000	1800	2050	20	160	6"	92	4.58	5930	1230
			30	160	6"	137			
			40	200	8"	183			
WL-HF183500	1800	2050	20	160	6"	108	5.41	7000	1480
			30	200	8"	162			
			40	200	8"	216			
WL-HF184000	1800	2050	20	160	6"	125	6.25	8080	1700
			30	200	8"	187			
			40	250	10"	250			

Φ2000mm

Model	Diameter (mm)	Height (mm)	Flow velocity (m ³ /h/m ²)	Pipe size		Design flow (m ³)	Filter area (m ²)	0.5-0.8mm Sand weight(kg)	1-2mm Gravel weight(kg)
				mm	inches				
WL-HF202500	2000	2220	20	160	6"	87	4.34	6000	1050
			30	160	6"	130			
			40	200	8"	174			
WL-HF203000	2000	2220	20	160	6"	106	5.30	7450	1300
			30	160	6"	159			
			40	200	8"	212			
WL-HF203500	2000	2220	20	160	6"	125	6.25	8900	1550
			30	200	8"	187			
			40	200	8"	250			
WL-HF204000	2000	2220	20	160	6"	144	7.21	10350	1800
			30	200	8"	216			
			40	250	10"	288			
WL-HF204500	2000	2220	20	200	8"	163	8.16	11800	2080
			30	200	8"	245			
			40	250	10"	326			

WF SERIES BAG FILTER

Full plastic bag filter is a new filtration system, with high precision, big flow, easy installation and maintenance. It can be divided into three parts: housing, filter basket and filter bag.

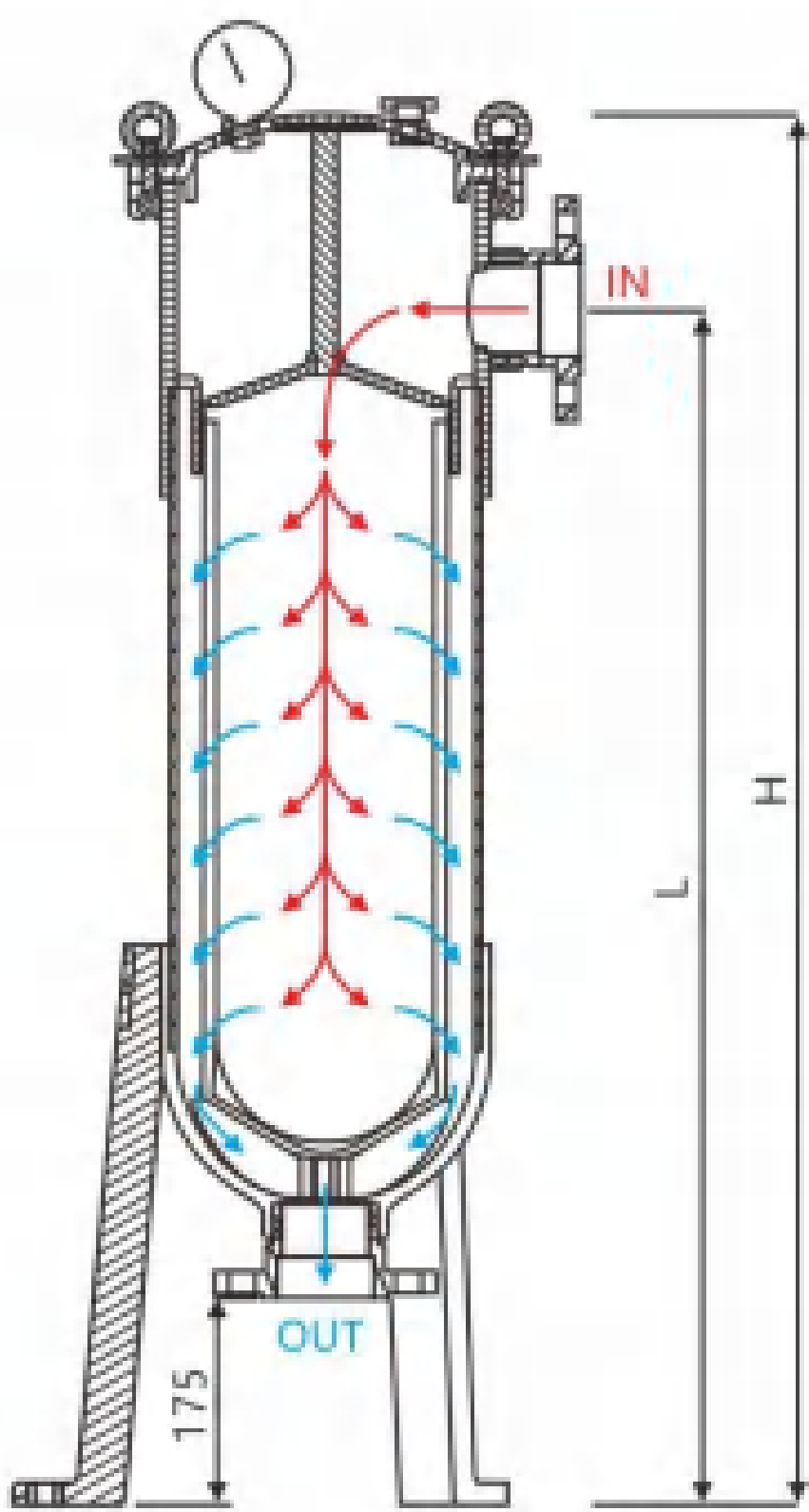
Features:

- UVPC plastic filter housing with strong corrosion resistance.
- Unique seal design makes the filter more safety and reliable.
- The special filtration technology can effectively prevent the bag plunged into the support basket, no inner leak.
- Compact structure, beautiful appearance and small footprint.
- High filter precision, the filtration range is 0.5 to 200um.
- Large processing flow rate, large capacity and high efficiency.



Working principle:

The water to be filtered flows in from the inlet, and then flows from the inside to outside of the filter bag, finally flows into the specified container through the outlet at the bottom of the filter. The filtered particle impurities are trapped in the filter bag, to make sure that there is no contamination to the filtered water when replacing the filter bag and the unit can be re-used after replacing the filter bag.



Water flow diagram

Technical parameters:

Model	Size	Design flow (m³/h)	Bag size	inlet/outlet size	Height of water inlet	Max. working pressure
WL-WF-1-1-A	φ225-H805	15	7"(178mm)-H17"(419mm)	DN50/2"/63mm	650	0.4MPA
WL-WF-1-2-A	φ225-H1190	25	7"(178mm)-H32"(813mm)	DN50/2"/63mm	1035	0.4MPA
WL-WF-1-1-B	φ225-H820	15	7"(178mm)-H17"(419mm)	DN50/2"/63mm	665	0.7MPA
WL-WF-1-2-B	φ225-H1200	25	7"(178mm)-H32"(813mm)	DN50/2"/63mm	1045	0.7MPA
WL-WF-1-1-B1	φ225-H820	15	7"(178mm)-H17"(419mm)	DN50/2"/63mm	665	0.7MPA
WL-WF-1-2-B1	φ225-H1200	25	7"(178mm)-H32"(813mm)	DN50/2"/63mm	1045	0.7MPA

Note:
 1. One filter bag is installed inside the housing.
 2. Max. temperature: 45°C, vent hole and pressure gauge mounting hole thread size: G1/4", for metric pressure gauges, need to order adapters separately.

OZONE REACTOR

Reaction formula: $CT \geq 1.6$, ozone demand: $Po_3 = qc \times O_3$. Ozone reactor size: $V = qc/60Xt$. $\odot$ - the amount of ozone added into the water; t -time requirement for ozone and water contact reaction; V -the volume of ozone reactor; qc -the circulating water amount)

Max. working pressure: 250kpa/36psi/2.5bar or 400kpa/58psi/4.0bar.

Max. testing pressure: 400kpa/58psi/4.0bar or 600kpa/86psi/6.0bar.

Max. temperature: 50℃ (122F)

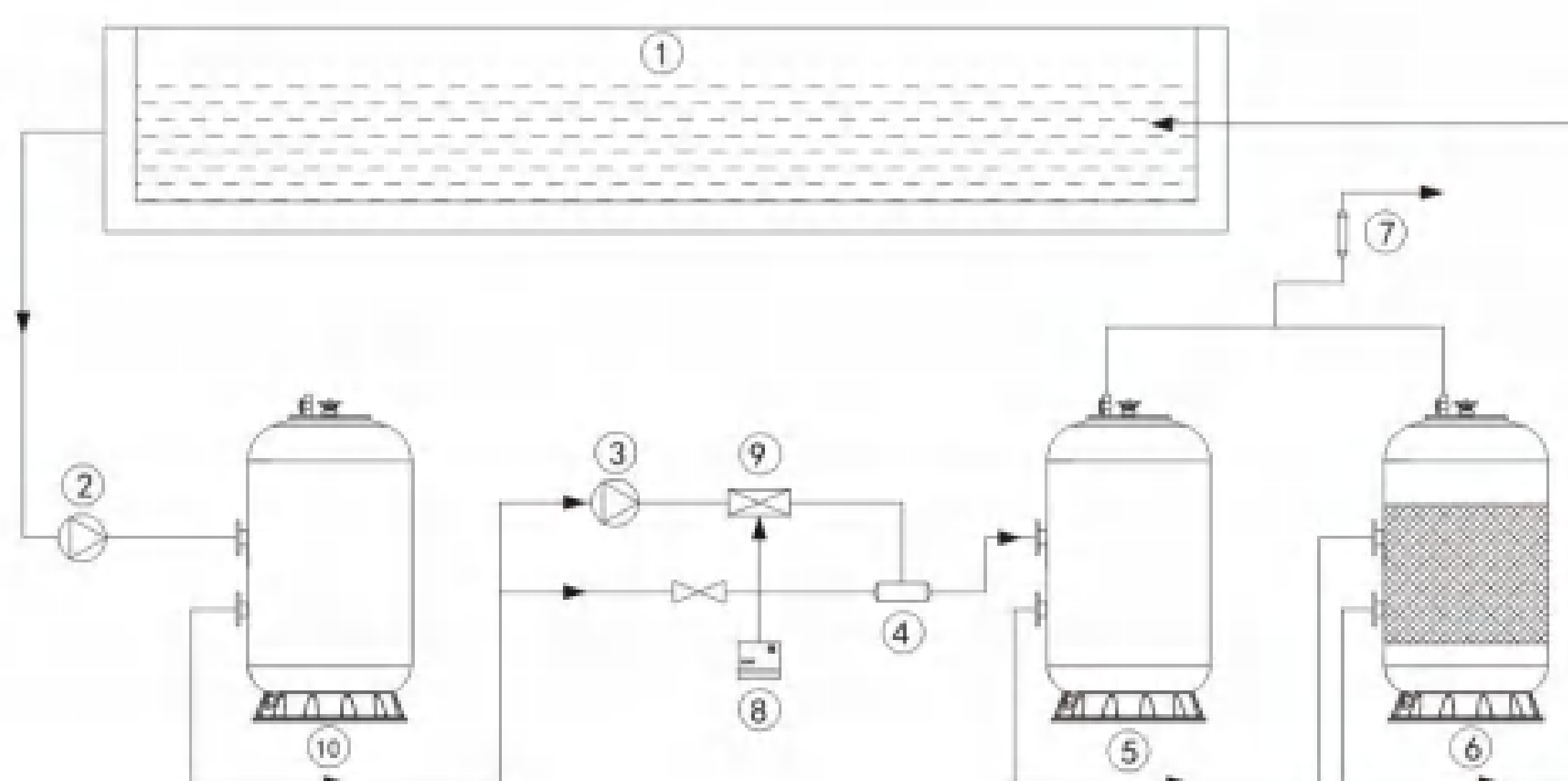
Features:

- The surface is constructed of UV-resistant and non-corrosive fiberglass filament winding.
- With non-corrosive internal layer.
- The full reaction of water and ozone can greatly improve the sterilization effect.



MECHANICAL
FILTRATION

Ozone reactor working procedure



- ① Swimming pool/aquarium
- ② Circulating pump
- ③ Booster pump
- ④ In-line mixer
- ⑤ Reaction tank
- ⑥ Adsorption filter
- ⑦ Exhaust gas decomposition device
- ⑧ Ozone dosing device
- ⑨ Ozone injector
- ⑩ Sand filter

Technical parameters:

Model	Diameter (mm)	Water inlet/outlet size (mm)	Flow rate (m³/h)	Volume (m³)
WL-OZ1532	800	63	18	0.63
WL-OZ1540	1000	63	33	1.12
WL-OZ1548	1200	90	45	1.53
WL-OZ2032	800	63	26	0.88
WL-OZ2040	1000	75	40	1.51
WL-OZ2048	1200	90	63	2.1

RSPP SERIES VERTICAL FLOW SETTLER

Delivers reliable pre-treatment, removing over 85% of particulates to reduce biofilter load and extend system life. Engineered for versatility, the modular units (20-400 m³/h) are proven in RAS, hatcheries, shrimp culture, and raceways.



Features:

- Modular capacity: 20-400 m³/h for small to large systems.
- High solids removal: 60-70% by settling; >85% when combined with drum filters.
- Durable materials: Food-grade PP, FRP, or 304/316 stainless steel.
- Easy sludge handling: Cone-bottom drain with manual or automatic purge.
- Flexible integration: Works with RAS biofilters, UV systems, and oxygenation units.
- Low maintenance: Removable lids and inspection access for quick servicing.

Product parameters

Model	Flow Rate (m³/h)	Size (mm)	Inlet Diameter (mm)	Outlet Diameter (mm)	Sewage Outlets (mm)
WL-RSPP-30	30	600/830×1250	75	75	50
WL-RSPP-60	60	850/1320×1420	110	110	50
WL-RSPP-100	100	1000/1500×1420	160	160	75

BIOLOGICAL FILTRATION

Biological filter is the core equipment of aquaculture. In the case that the total circulating water volume is fixed, but the total amount of nitrogen input is constantly increasing, under the action of organisms, these nitrogenous substances would be converted into ammonia or nitrite dissolved in water. The continuous accumulation of these substances will cause the organisms poisoning. Therefore, these nitrogenous substances must be converted into non-toxic substances in aquaculture. Bio-filtration is the decomposition of ammonia nitrogen and other substances in water by the cultivation of biochemical bacteria through the filtration media, but it requires pretreatment, sand filter, protein skimmer can be used as the pretreatment equipment.



FLUIDIZED SANDBED BIOFILTER

Fluidized Sandbed Biofilter is a high efficiency filter that will replace the traditional bio-trough system with a much smaller footprint. It uses anaerobic denitrification technology to treat ammonia nitrogen in water. Calcified coral sand is used as its filter media, with a contact area of up to 20000-24000m2/m3 (depending on the size of the selected coral sand), and 1kg coral sand can handle 16g of ammonia (NH4) per 24 hours on average. Compared with traditional biochemical denitrification equipment, it not only occupies a smaller area and consumes less power, but also greatly improves the efficiency of denitrification.

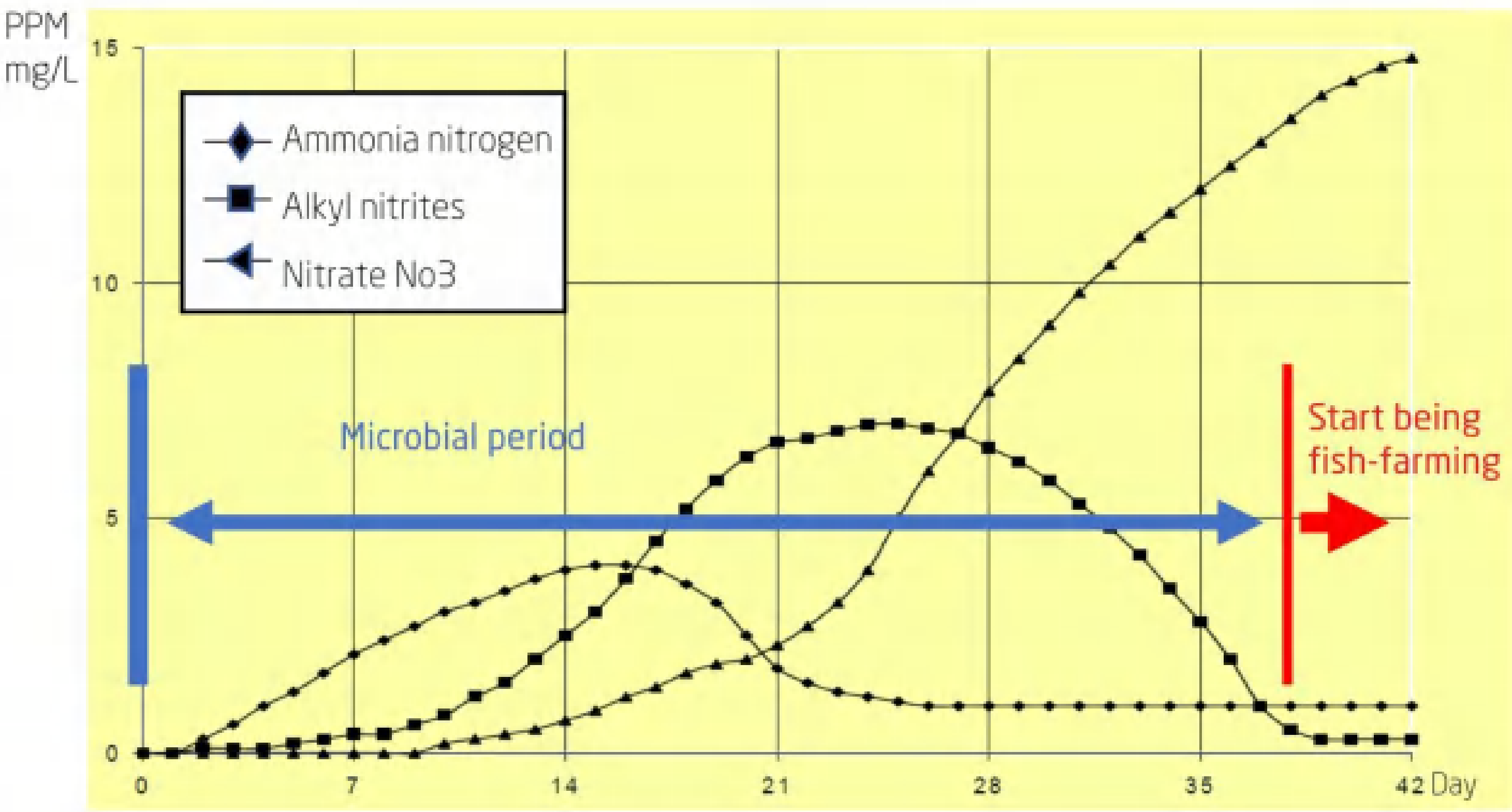
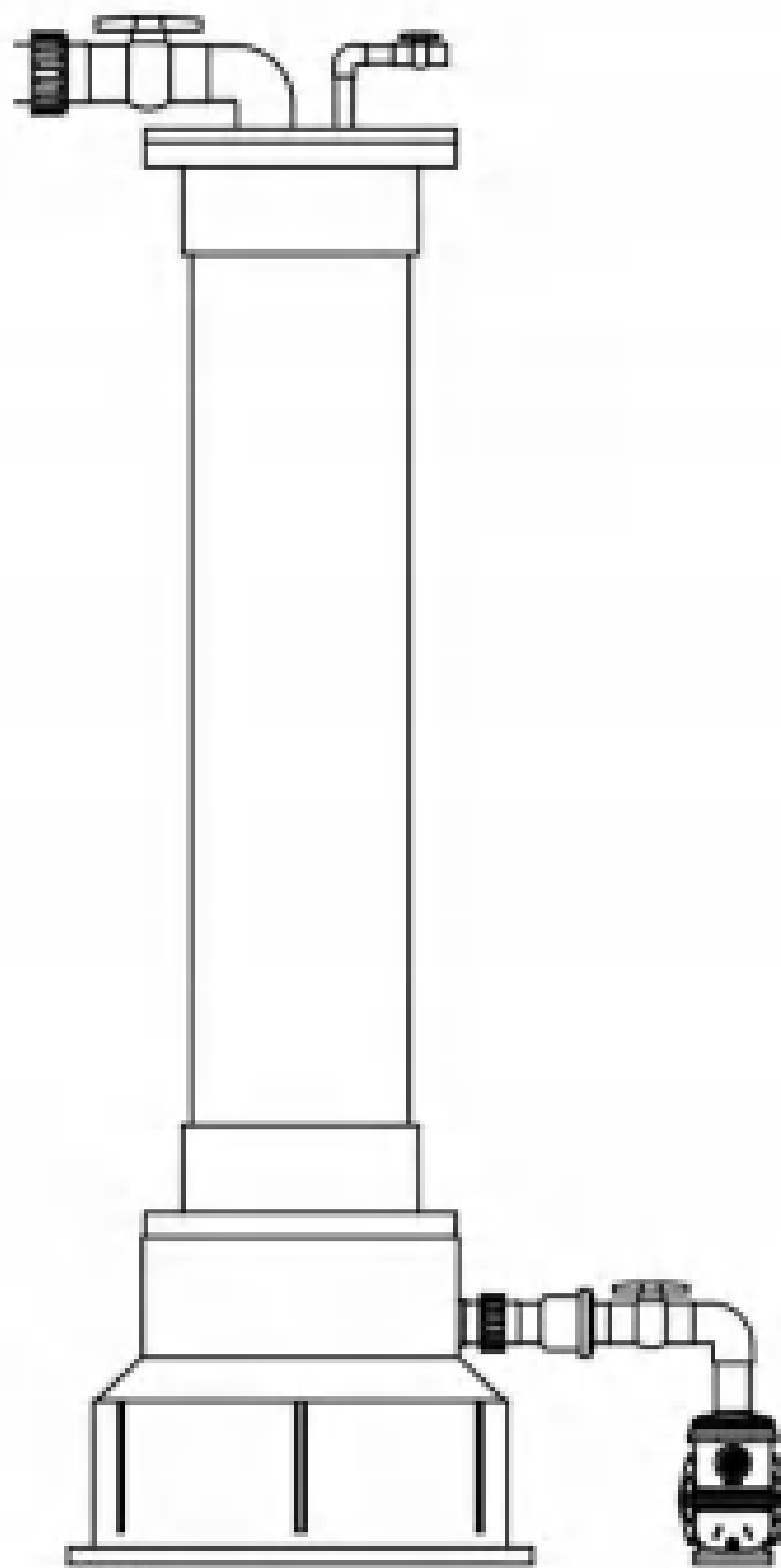
It is applicable for freshwater or seawater aquaculture.

Features:

- High efficiency
- Small footprint
- Low maintenance costs

Material:

LDPE and UPVC, standard UPVC pipeline connection.



Product parameters

Model	Diameter (mm)	Water inlet (mm)	Water outlet (mm)	Total height (mm)	Max. flow rate		Calcified coral sand (Φ1-2mm)		Ammonia-nitrogen conversion rate (kg / day)	Handling amount of food fed (kg / day)
					LPM	m³/h	kg	m³		
WL-BSF75	250	63	63	2300	267	16	57	0.044	0.924-1.37	33-49
WL-BSF150	400	63	90	2800	434	26	178	0.14	2.85-4.27	102-152

BEAD FILTER

WL-BFG bead filter is an innovative pressurized filtration system, filling with filter media of food grade polyethylene granules or beads. It provides both mechanical filtration and biological filtration. The media floats and therefore provide a means of mechanical filtration. The form and size of the media provides enormous surface on which bacteria and suspended solid can attached to it, in this way, biological filtration is realized. It has been widely used for koi pond and aquarium.

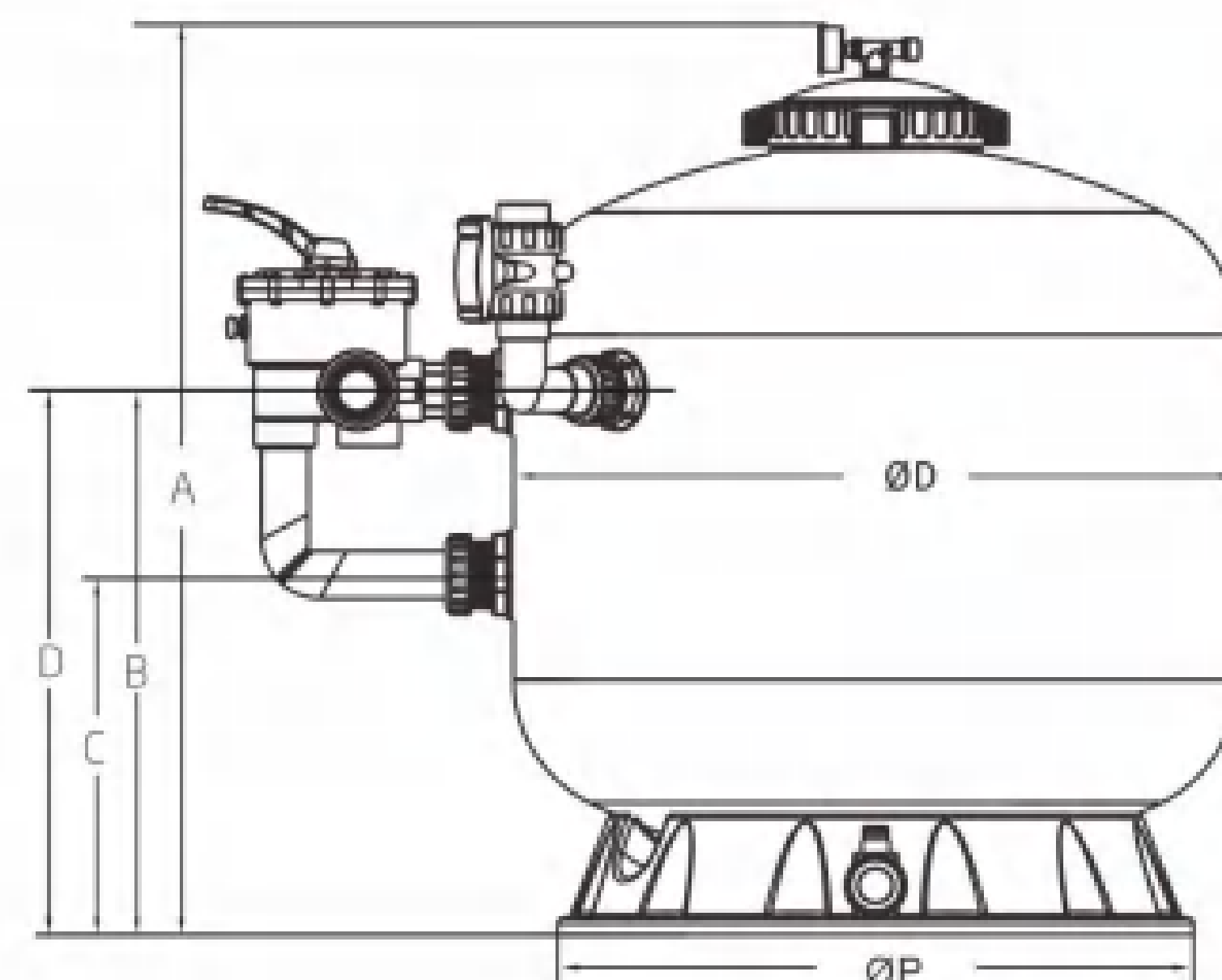
Features:

- Fiberglass reinforced filters are super strong and anti-corrosion.
- Simple to assemble and set up.
- Equipped with easy-to-use 6-way multiport valve.
- Easy cleaning and convenient maintenance.
- Sight glass for inspection of filtered water.
- Air blower upgrades available.



BIOLOGICAL FILTRATION

Φ D (mm)	450	500	630	700	800	900	1200
A (mm)	660	730	790	885	1020	1110	1350
B (mm)	385	405	435	520	605	650	820
C (mm)	260	280	310	300	385	430	600
E (mm)	385	405	435	480	600	650	820
Φ D (mm)	390	390	565	565	790	790	1010

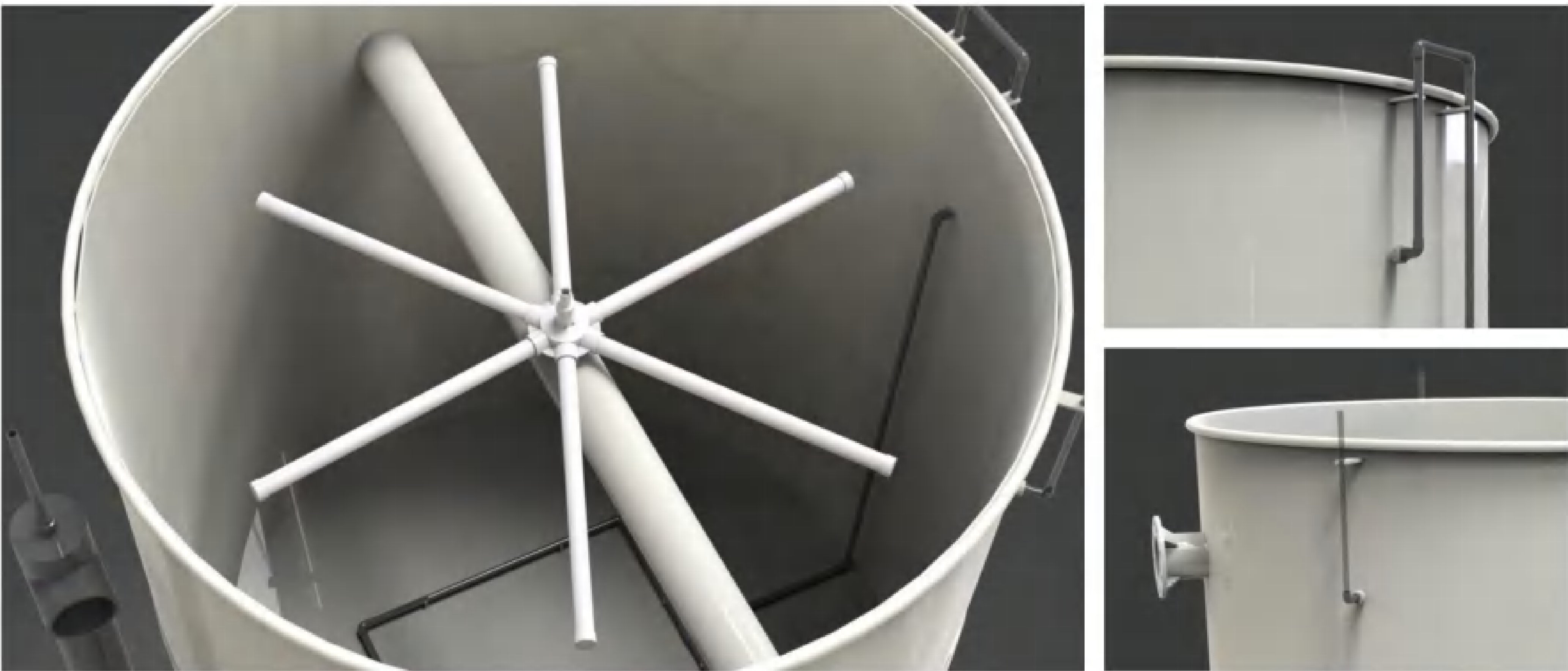


Product parameters

Model	Tank diameter (mm)	Tanks height (mm)	Flow rate (m ³ /h)	Pond size (m ³)	Fish load (kg)	Advised blower (watt)	Weight of filter media (kg)
WL-BFG450	450	660	8	6	20	400	18
WL-BFG500	500	730	11	10	35	400	30
WL-BFG650	650	745	16	30	78	400	50
WL-BFG700	700	830	19	34	94	900	75
WL-BFG800	800	905	25	52	124	900	100
WL-BFG900	900	1005	30	73	172	1000	125
WL-BFG1200	1200	1325	42	148	310	2x1000	325

MOVING BED BIOFILM REACTOR(MBBR)

- High Efficiency: Suspended biofilm carriers provide an enormous surface area for beneficial bacteria, boosting purification, achieving a far higher treatment capacity than static media.
- Clog-free operation: The continuous movement of the media prevents clogging, eliminating maintenance headaches and ensuring consistent performance.
- Self-adapting: The biofilm automatically adjusts to the organic load, making it ideal for handling feeding fluctuations and high-stock densities.
- Flexible installation: Compact design, flexible installation, fits diverse scenarios.
- Easy maintenance: Reasonable structure, simple assembly and disassembly.

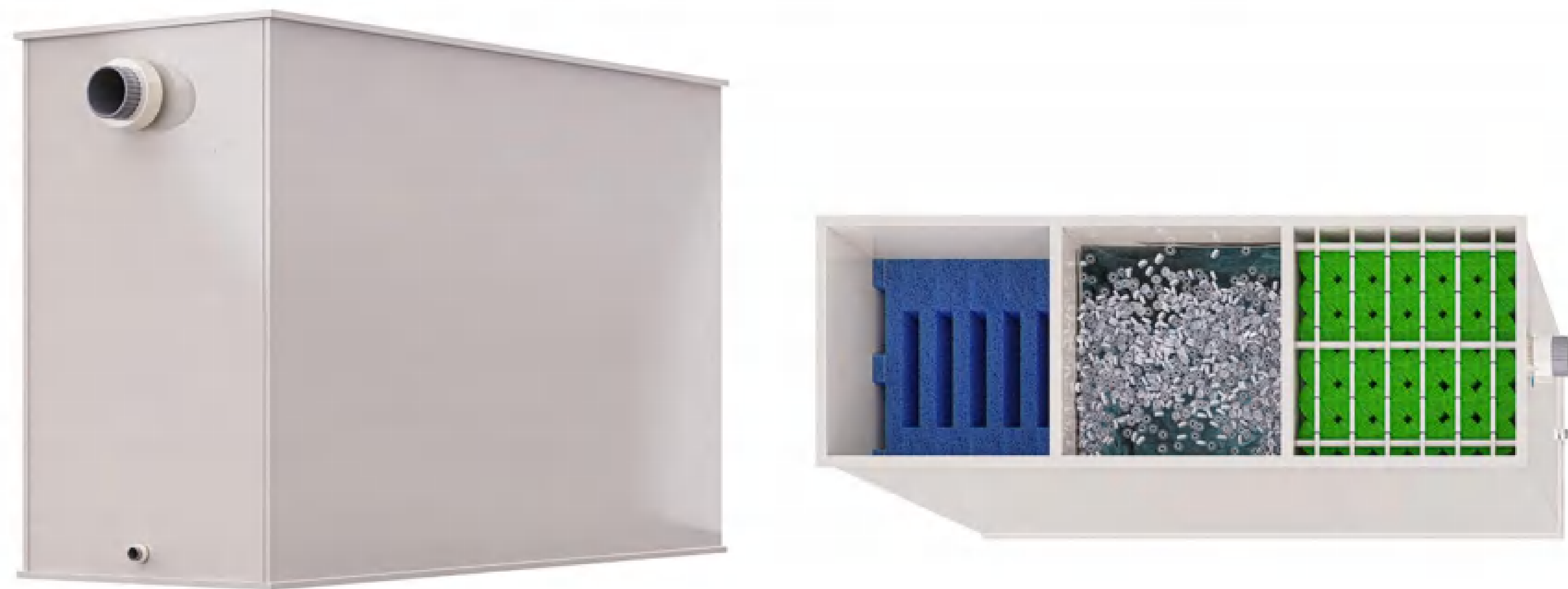


Product parameters

Model	Flow rate (m³/h)	Media (m³)	Water inlet (mm)	Water outlet (mm)	Dimension (mm)
WL-BIO-30	30	1	110	110	Φ1630×2280
WL-BIO-60	60	2	160	160	Φ2400×2470

FLUIDIZED BED

The Fluidized Bed System combines fluidized-bed technology with biological contact oxidation, delivering high-efficiency biological treatment for RAS, ponds, and wastewater applications.



BIOLOGICAL FILTRATION

Features:

- Enhanced Bio Activity: Full fluidization supports both attached and suspended microbial growth.
- High-Surface Carriers: Enables rapid biofilm development for efficient nitrogen and phosphorus removal.
- Clog-Resistant Aeration: Perforated pipes ensure stable oxygen distribution.
- Complete Mixing: Eliminates dead zones for full treatment capacity.
- Durable Construction: Long-lasting components reduce replacement needs.

Product parameters

Model	Size (mm)	Inlet Diameter (mm)	Outlet Diameter (mm)	Filter Material
WL-FB-30T	2000×600×1200	110	110	Brush Filter,Biochemical Filtration,Vine Cotton
WL-FB-60T	2000×800×1200	160	160	
WL-FB-100T	2000×1000×1200	200	200	



ALL-IN-ONE FILTRATION SYSTEM

Features:

- Combines drum filter, bio-filtration, UV sterilizer, backwash system & control panel.
- Auto/stop/manual modes; auto-senses blockage for smart backwashing with adjustable duration.
- Low-resistance stainless steel screen ensures high flow; zero energy use when unclogged.
- PP material: eco-friendly, non-toxic & corrosion-resistant.
- Slanted sludge collection trough enables quick waste discharge.



Product parameters

Model	Max. Flow Rate (m³/h)	Drum Diameter (cm)	Drum Length (cm)	Dimensions (cm)	Inlet Size (cm)	Outlet Size (cm)	Backwash Pump Power (Kw)	Drive motor power (W)
WL-YCM-01	15	43	30	120×60×75	7.5	11	1	15
WL-YCM-02	18	45	36	130×62×77	7.5	11	1	15
WL-YCM-03	23	48	42	140×64×79	11	11x2	1	15
WL-YCM-04	27	50	48	150×66×81	11	11x2	1	15
WL-YCM-05	32	52	54	160×68×83	11×2	11x3	1	15
WL-YCM-06	37	54	60	180×70×85	11×2	11x3	1	15



ALL-IN-ONE INTEGRATED RAS EQUIPMENT

LASWIM plug-and-play RAS block integrates a drum microfilter, biofilter, protein skimmer, and UV sterilizer into one compact unit, delivering complete solids removal, biological treatment, organic stripping, and pathogen control in a single flow path. All piping and electrics are pre-installed at the factory. On site, simply connect water and power and start running. The compact frame minimizes footprint, shortens installation time, and makes it ideal for tight spaces, fast retrofits, and projects with limited manpower.



BIOLOGICAL FILTRATION

Features:

- High - efficiency Filtration: Combining physical and biochemical filtration to quickly purify water quality.
- Function Integration: All - in - one design, saving space and cost, with easier installation and layout.
- Biological Cultivation: Facilitate the reproduction of beneficial microorganisms, enhance water self - purification, and stabilize water quality.
- Simple Maintenance: High degree of automation, simple structure, and easy maintenance.
- Wide Application: Applicable to various water bodies such as aquariums, landscape pools, and aquaculture ponds.



Model	30m³ All-in-one Integrated RAS Equipment	60m³ All-in-one Integrated RAS Equipment
Drum Filter	Model: WL-IBM30	Model: WL-IBM60
	Water Flow: 30m³/h	Water Flow: 60m³/h
	Filtration Precision:74µm (200 mesh)	Filtration Precision:74µm (200 mesh)
	Feature: Automatic backwash, scheduled setting, water level detected	Feature: Automatic backwash, scheduled setting, water level detected
	Water inlet and outlet: 110 mm; 12mm PP panel material	Water inlet and outlet: 160 mm; 12mm PP panel material
	Filter Mesh Material: 316L Stainless Steel Filter	Filter Mesh Material: 316L Stainless Steel Filter
UV Sterilizer	Model: WL-PVC-30-AR	Model:WL-PVC-60-AR
	Material: UPVC	Material: UPVC
	Water Flow: 30m³/h	Water Flow: 60m³/h
	3pcs of 80w ultraviolet sterilizer lamp	6pcs of 120w ultraviolet sterilizer lamp
	Lamp Lifespan: 9000h	Lamp Lifespan: 9000h
Protein Skimmer	Model: WL-EPS-30	Model: WL-EPS-60
	Material: PP	Material: PP
	Water inlet: 50mm	Water inlet: 110mm
	Water Outlet: 75mm	Water Outlet: 160mm
	Pump Power: 0.75kw	Pump Power: 0.75kw
	Size: 800 × 2700mm	Size: 900 × 2800mm
Biological Filter	Water Flow: 30m³/h	Water Flow: 60m³/h
	Size: 1500 × 2300mm	Size: 2300 × 2500mm
	Accessories: K5 Filter Media	Accessories: K5 Filter Media
	Spray Pump: 0.75kw	Spray Pump: 0.75kw
Power	Rotary Motor: 0.12kw	Rotary Motor: 0.37kw
	Ultraviolet Sterilizer Lamp: 0.36kw	Ultraviolet Sterilizer Lamp: 0.72kw
	Seawater Pump: 0.75kw	Seawater Pump: 0.75kw
	Total: 1.98kw (for reference because equipment don't continual operate for 24h)	Total: 2.59kw (for reference because equipment don't continual operate for 24h)
Size(mm)	4401 × 1629 × 2875	6300 × 3000 × 3100



CIRCULATION PUMP

The function of the pump is to make the water flow in the artificial water environment. After the physical filtration, protein separation, biochemical filtration, disinfection and heating, the water will become suitable for the normal life of aquatic organisms, and then return to the aquaculture pool, so that the organisms can live healthily.



HV2 INTELLIGENT VARIABLE SPEED PUMP

WL-HV2 intelligent variable speed pump is an innovative product that combines high performance and reliability. It features ultra-quiet running, optimal speed and flow rate, which improves the efficiency of the pump, reduces maintenance and operation costs, and creates a sustainable, environmentally friendly and energy-saving solution for swimming pool water circulation.



Pump body	PP+35%GF	Pump base	PP+35%GF
Seal plate	PP+35%GF	Mechanical seal	Stationary face-SiC, rotating face-Graphite, seal bellows-NBR, Spring-316L
Diffuser	PPO+30%GF		
Impeller	PPO+30%GF+copper core	Self-priming	Up to 3M
Motor shaft	SS316	Protection class	IP55
Basket	PP	Liquid Temperature	5-50C°(41~122F°)
Max. Working pressure	3.5bar	Ambient Temperature	5-50C°(41~122F°)

RECIRCULATION
PUMP



Primary Features

Energy saving

HV2 pumps reduce the energy by up to 90%, saving up to 12,614kWh(2hp pump runs in 365 days).

Excellent hydraulic performance

The advanced hydraulic design enables the HV2 pump to achieve a self-priming capability up to 3 meters, high head and massive flow.

IE4 Motor

The IE4 high-efficiency motor is capable of long-term, stable, and efficient operation, delivering greater flow rates and higher head pressures, the overall performance is truly outstanding.

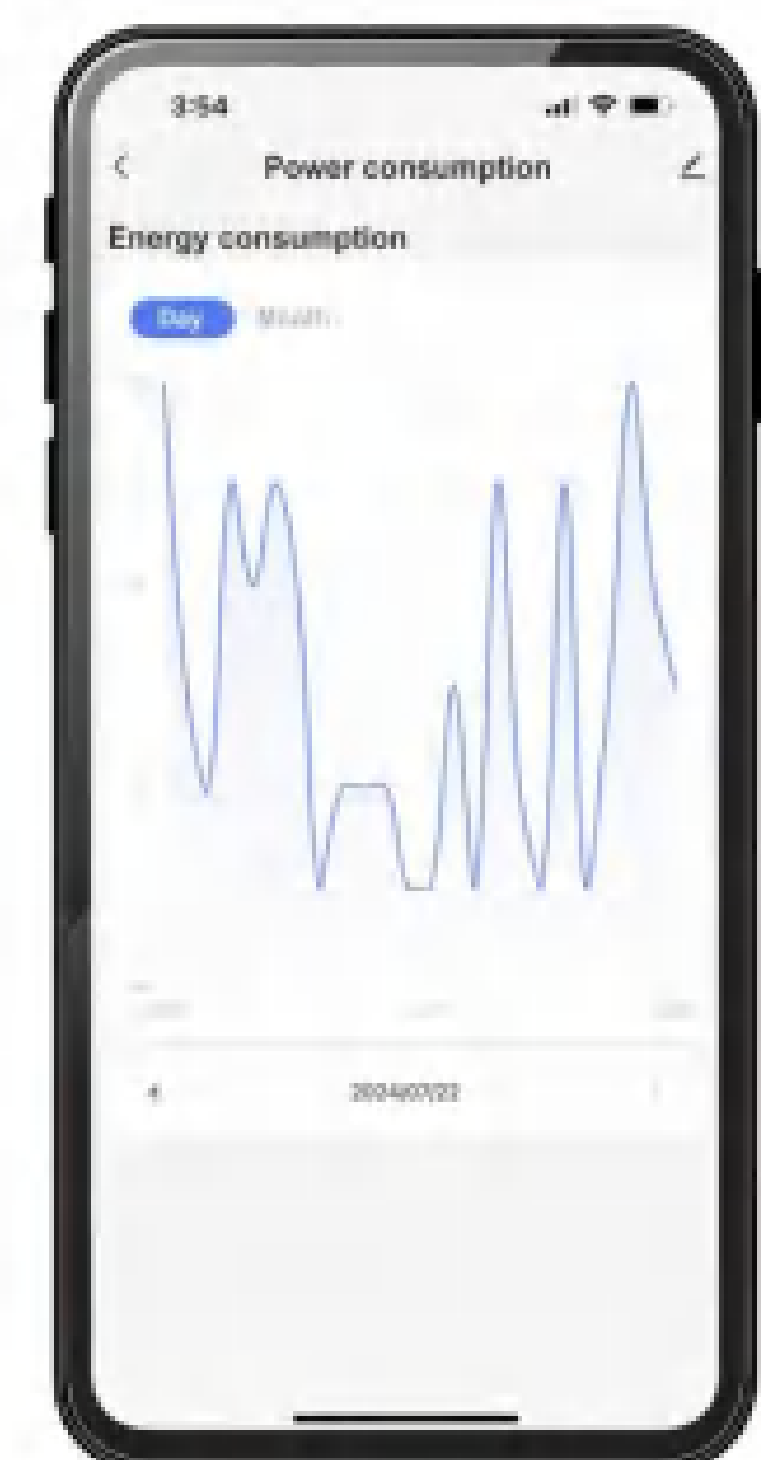
Quite Running

System sound level 45dB in 1 meter at the speed of 1500rpm.

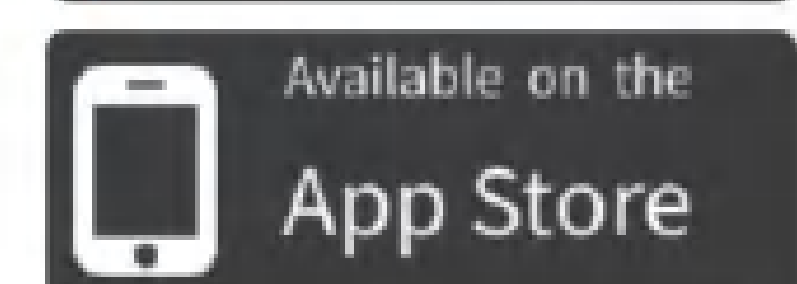
Intelligent and Smart Control

- Wi-Fi connectivity, mobile App control, OTA upgrade.
- RS485 communication port, passive dry contact interface.
- Built-in one-operate-one-standby function. Supporting linkage with pumps, and meeting the design specifications for one-operate-one-standby. Equipped with fault alarm and protection, it automatically switches to the standby pump in case of abnormal conditions, ensuring stable operation around the clock.
- Download the App "TUYA SMART" from Google play or App Store.

Fully programmable and up to 4 pre-set speeds and timer functions.



DOWNLOAD THE APP "TUYA SMART" FROM GOOGLE PLAY OR APP STORE. 

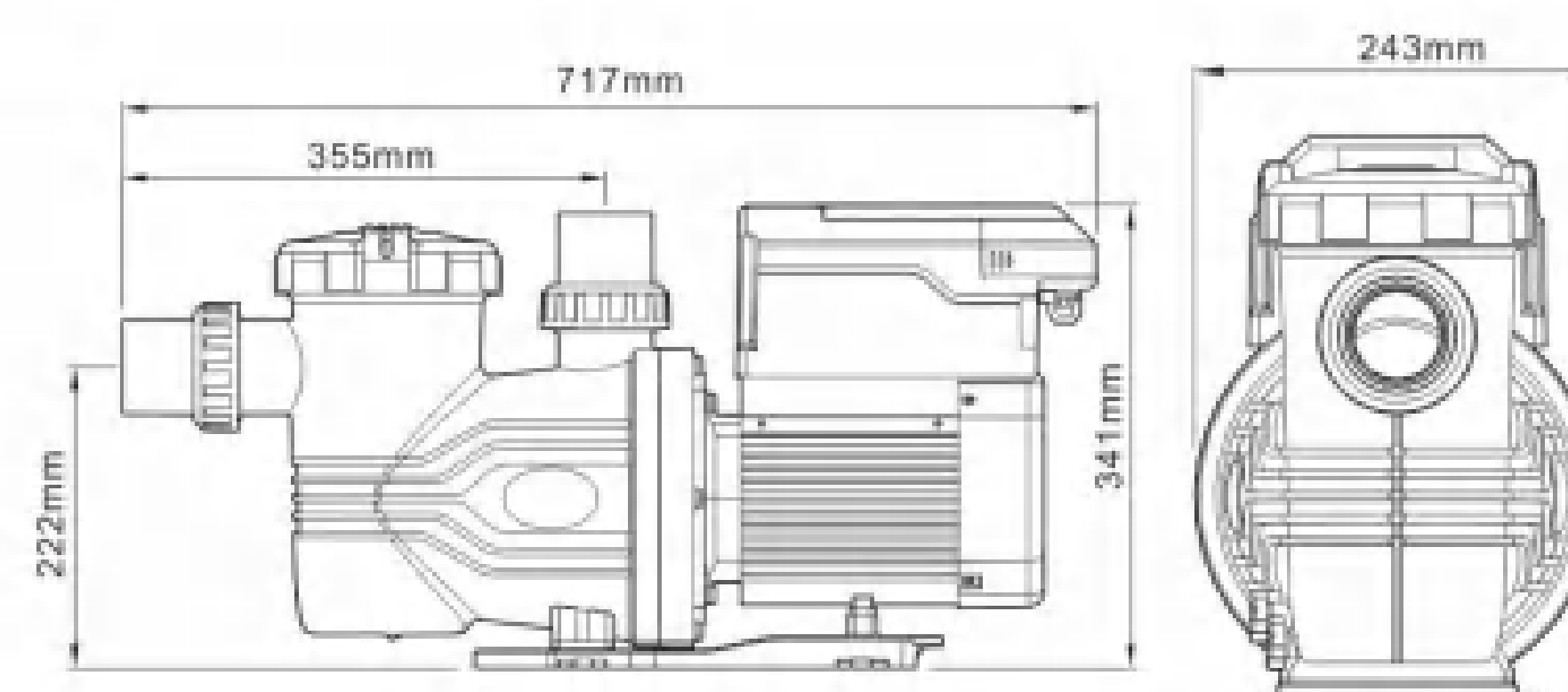
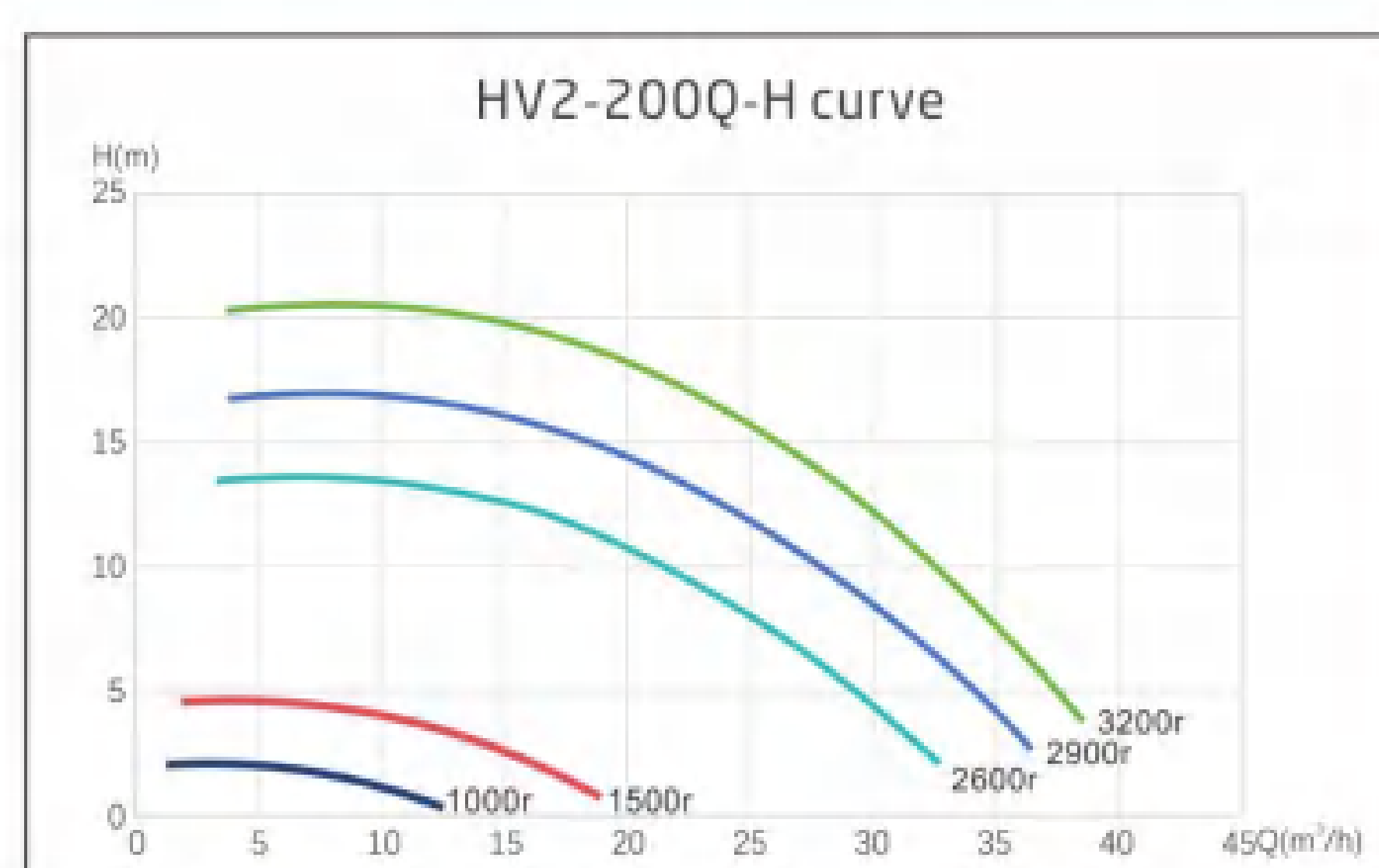
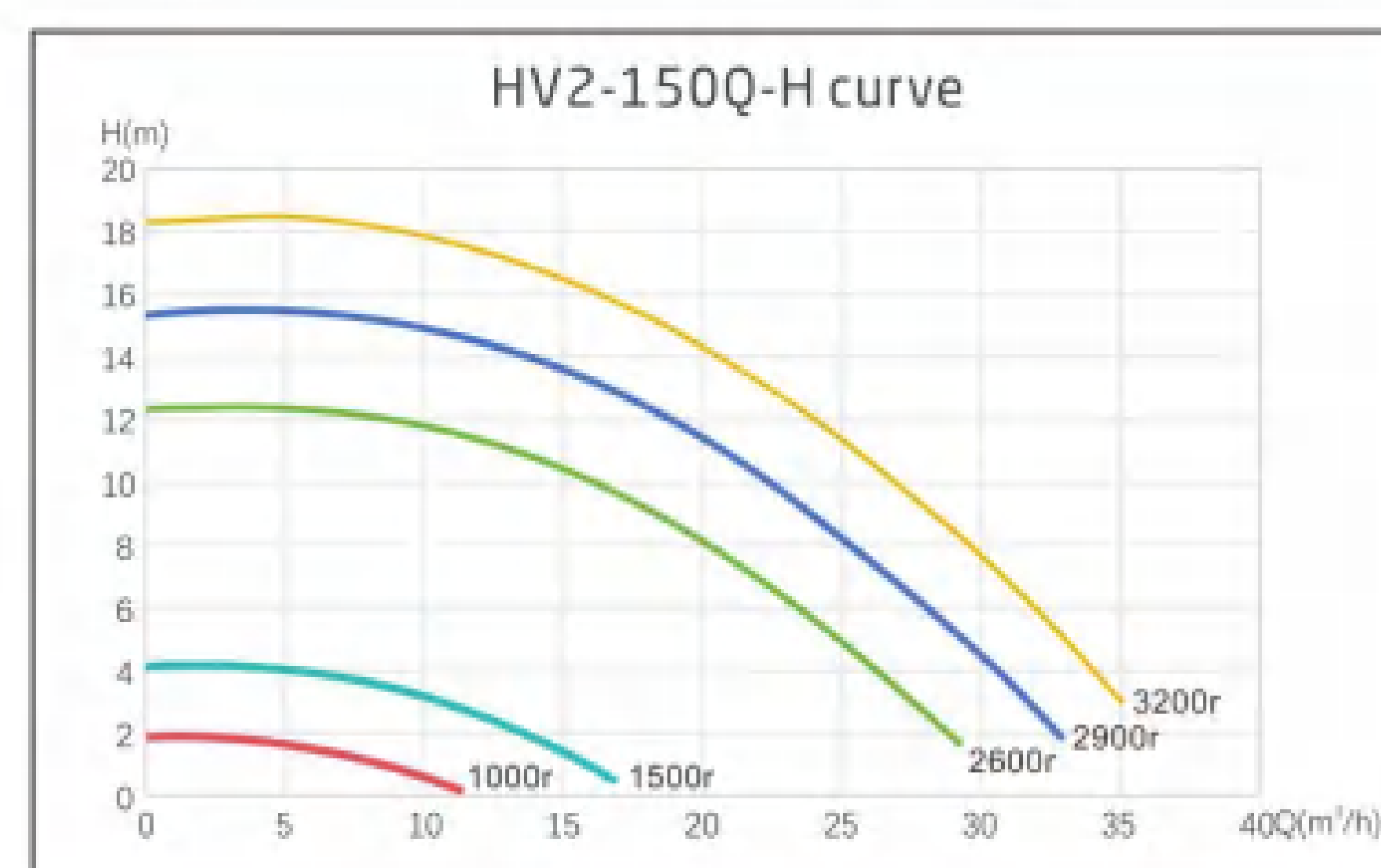
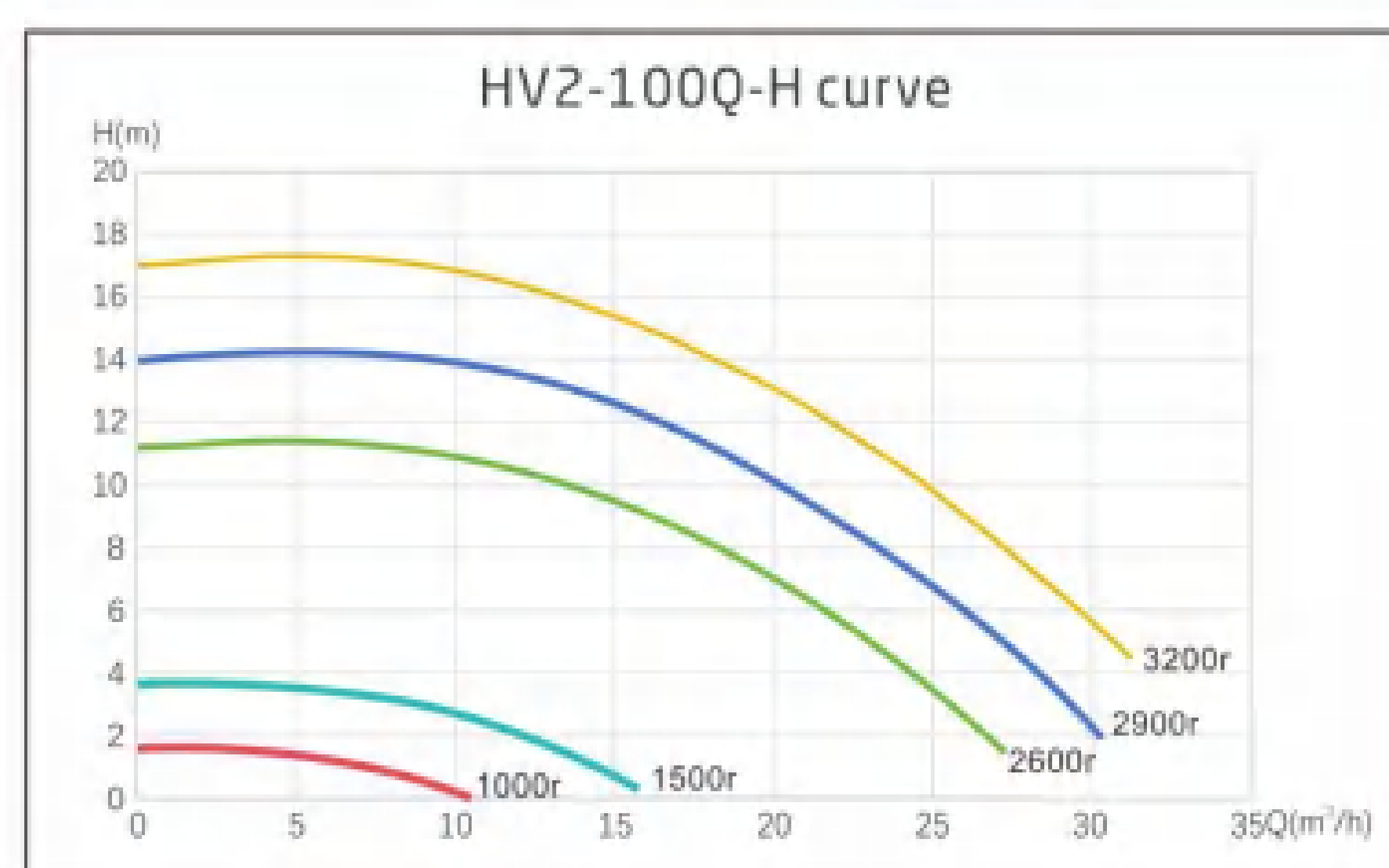
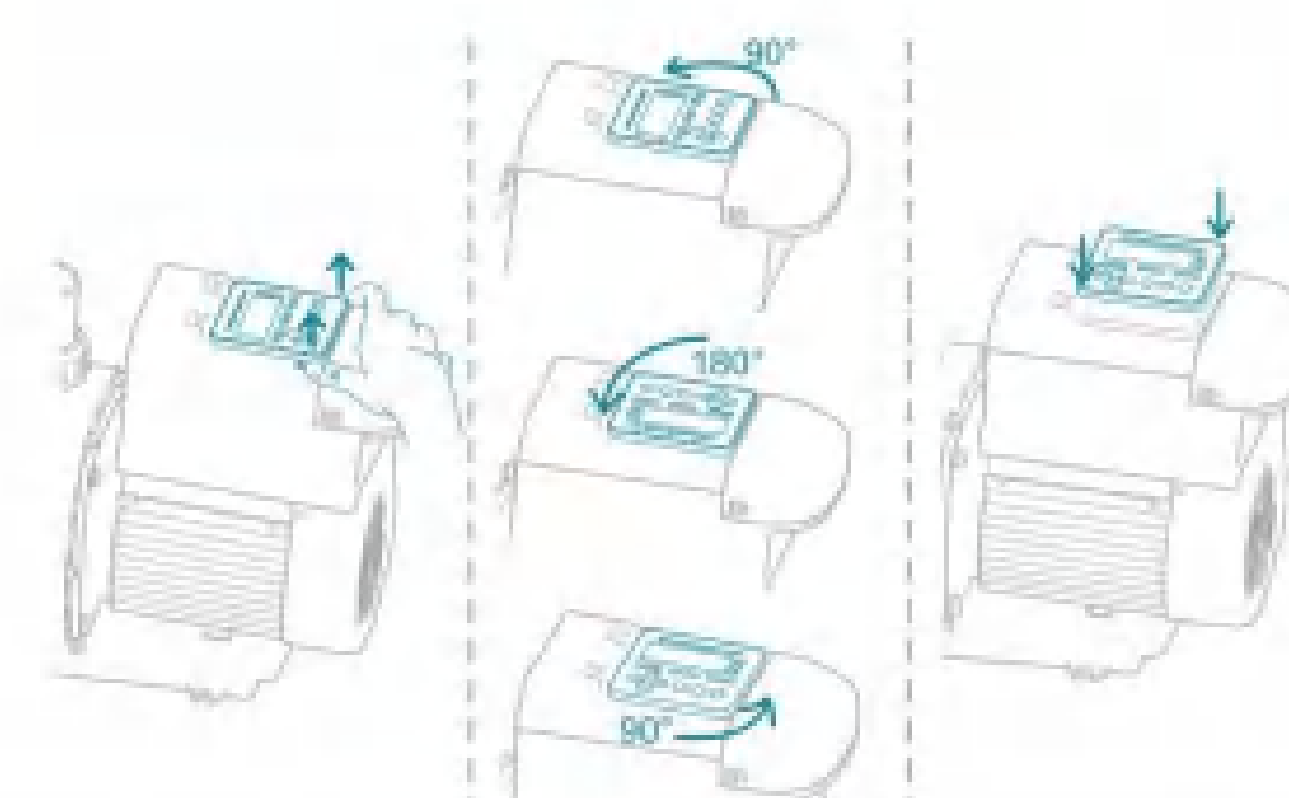


Smart connection, low maintenance

Motor drive includes built-in protection

- a. Temperature sensor for high temperature protection and anti-freeze protection.
- b. Pressure probe for monitoring water supply pressure and flow rate changes.
- c. Dry burn protection.

Digital control interface that can be mounted on the pump in 3 different orientations.



Model	Input Power (P1)	Rated output horse power(P2)	Rated power supply	Max. Current (A)	RPM	Motor Energy Efficiency Class
WL-HV2-100W	1000W	1HP	220-240V 50/60Hz	4.7	1000-3200	IE4
WL-HV2-150W	1300W	1.5HP	220-240V 50/60Hz	6	1000-3200	IE4
WL-HV2-200W	1650W	2HP	220-240V 50/60Hz	7	1000-3200	IE3

Model	Max. Flow rate (m³/h)	Max. Head (m)	Head		Connection size	noise (dB)
			10m	8m		
			Flow Rate(m³/h) @ 2900rpm			
WL-HV2-100W	31	16.9	20	23	2"/63mm	<58
WL-HV2-150W	35	18	22.5	25.5	2"/63mm	<60
WL-HV2-200W	40	20	28	30	2"/63mm	<64

HLVSP VARIABLE SPEED PUMP

LASWIM creatively combines the most advanced technology (Permanent magnet brushless DC motor) with the professionally designed hydraulic structure of the pump to create a more usable, quieter, more intelligent, more efficient and less expensive variable speed pumps.

Material:

- Pump housing: PP+35%GF
- Filter basket: PP
- Shaft: SS316
- Mechanical Seal: stationary face-SiC, rotating face-Graphite, seal bellows-NBR, Spring- 316L
- Impeller: PPO+30% GF
- Diffuser: PPO+30% GF



RECIRCULATION PUMP

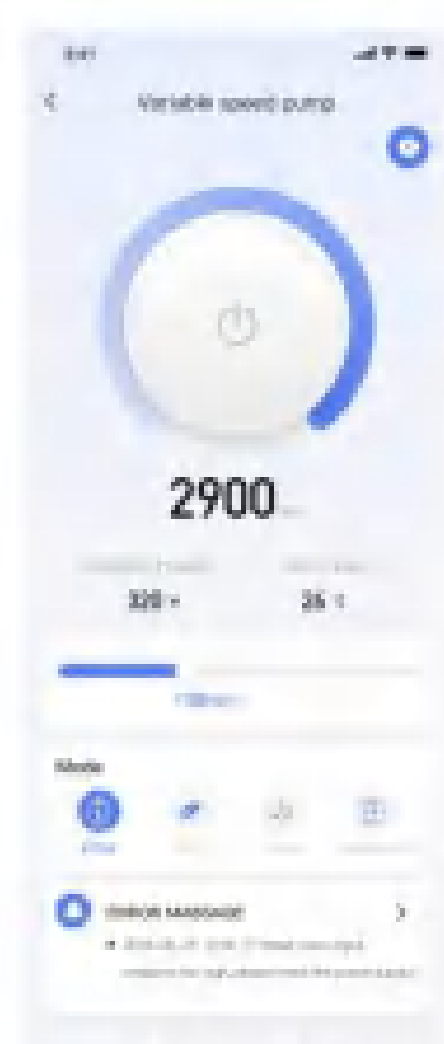


Simple and fast operation

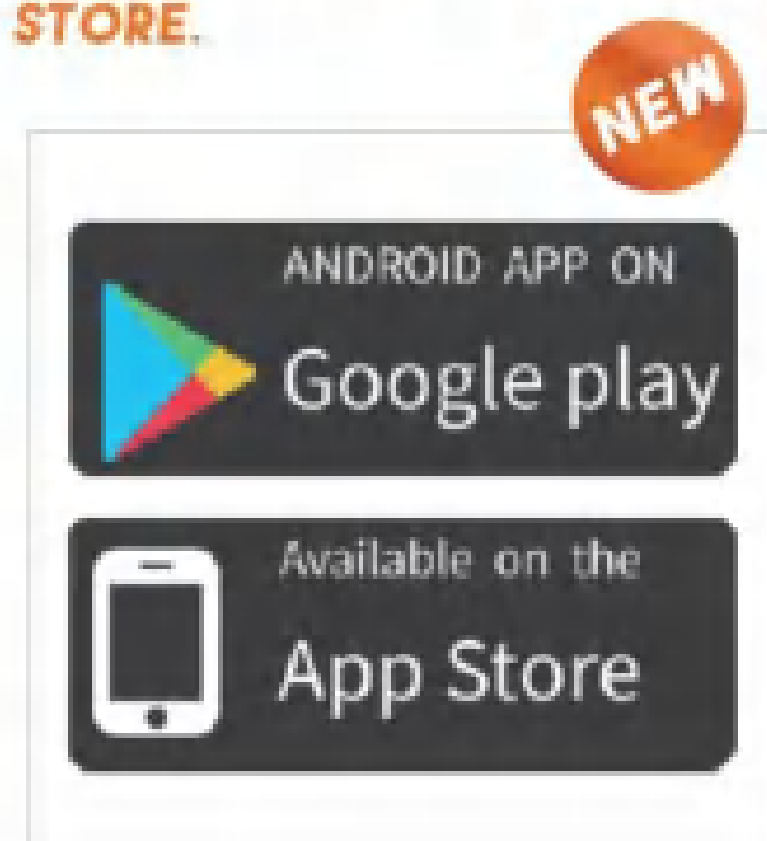
- Comes with 4 pre-set most commonly used working scenarios.
- One-button tap, directly to the desired function.
- Stepless variable speed technology, 1000-2900 rpm can be adjusted freely to meet various professional needs.

Intelligent

- All operations can be completed via mobile APP.
- Support centralized management of multiple devices, you can check the status of the water pump in real time, customize functions and the protection against accidental power failure.
- Support OTA upgrade, support firmware update.

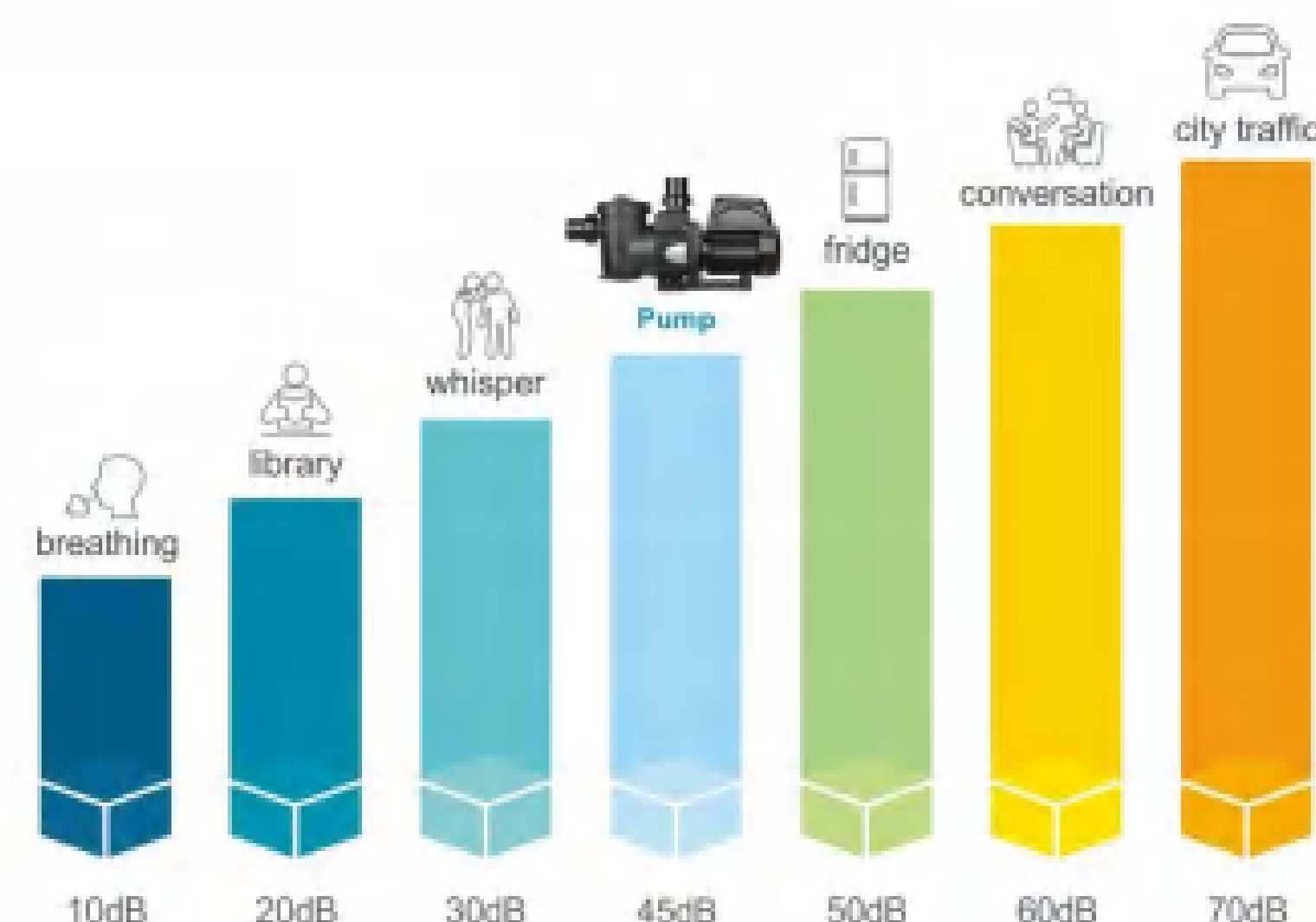


DOWNLOAD THE APP "TUYA" FROM GOOGLE PLAY OR APP STORE.



Quiet

- HLVSP pumps reduce operating noise, featuring an upgraded motor drive that delivers quieter high-speed operation.
- Sound level 45dB in 1 meter at the speed of 1400rpm.



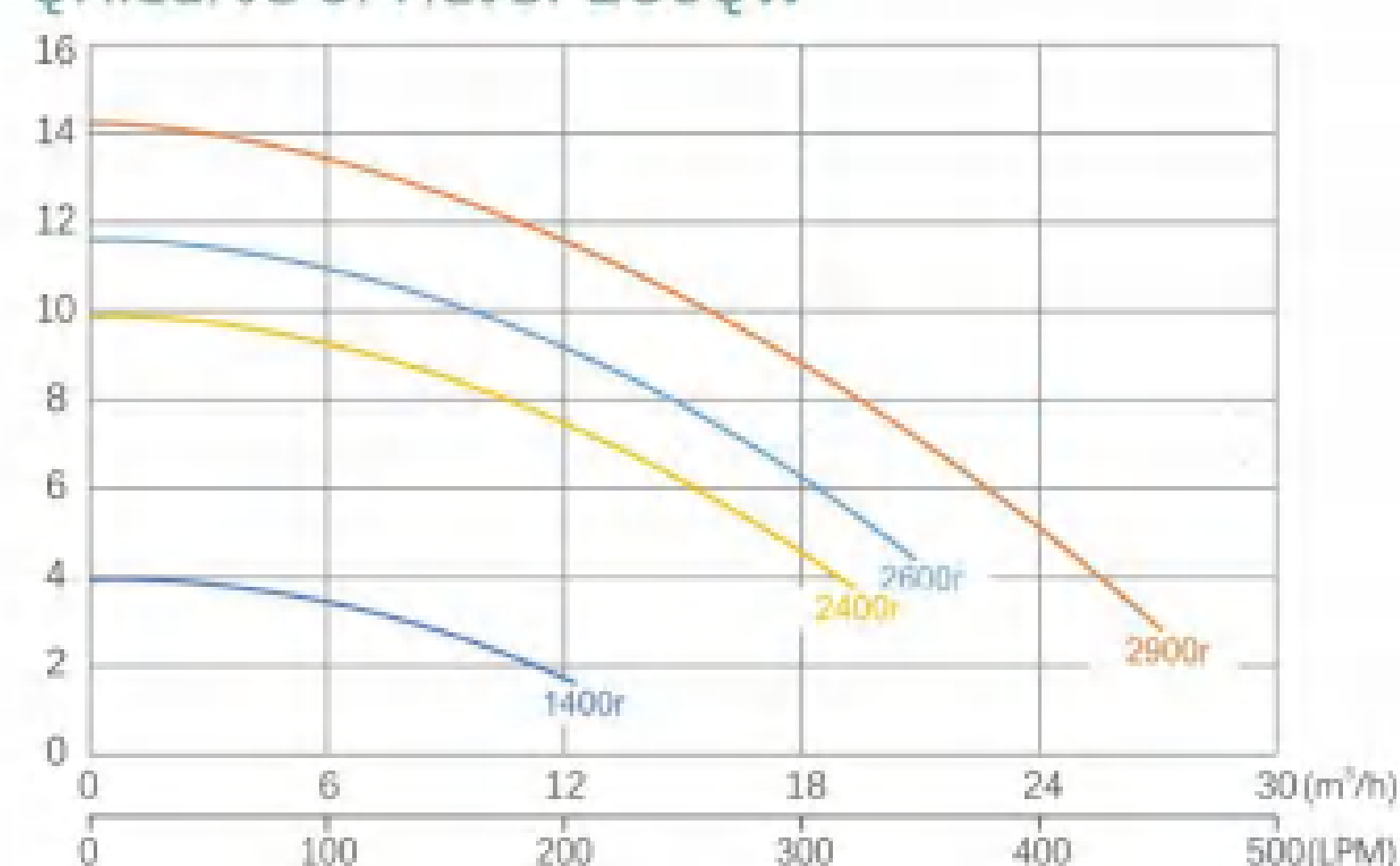
Energy saving

- HLVSP pumps reduce the energy by up to 90%, saving up to 12,614kWh(2hp pump runs in 365days).

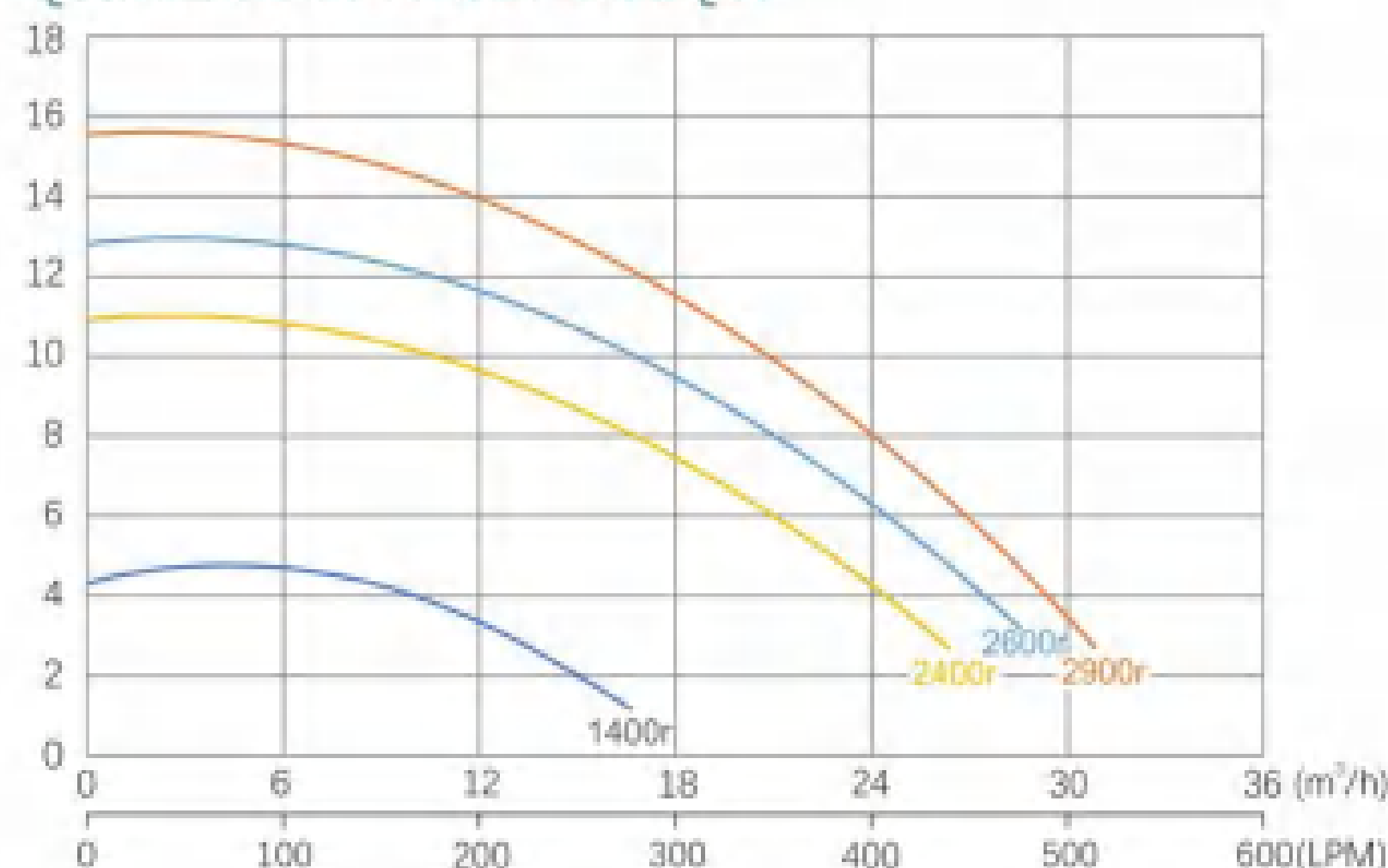
High energy efficiency

- High efficiency motor IE4.
- Ambient temperature: up to 45°C (113°F).
- Insulation Class: F.
- IP55 waterproof standard.
- Liquid temperature: 5~50°C (41~122°F).
- Maximum working pressure: 3.5bar

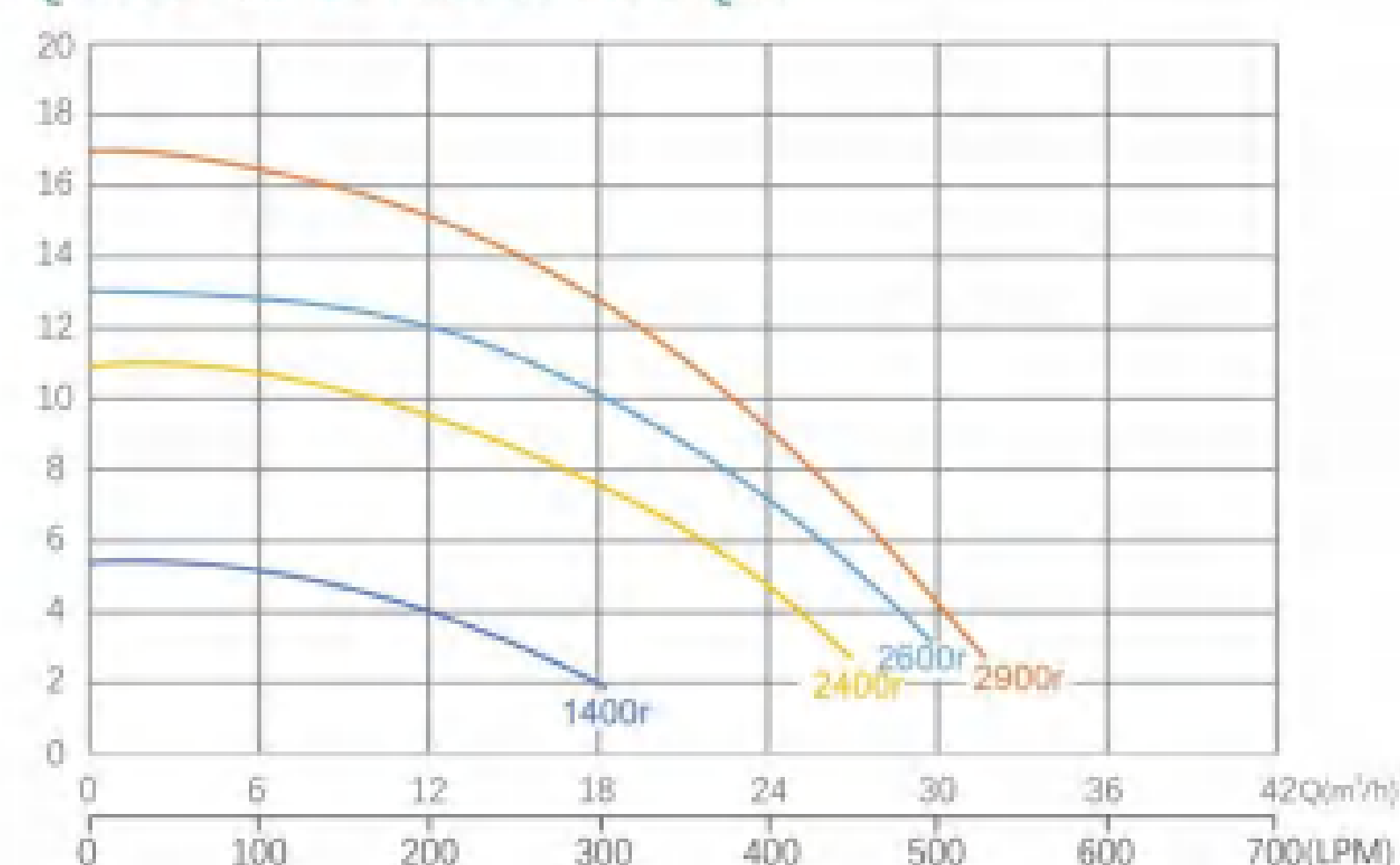
QH.Curve of HLVSP100QW



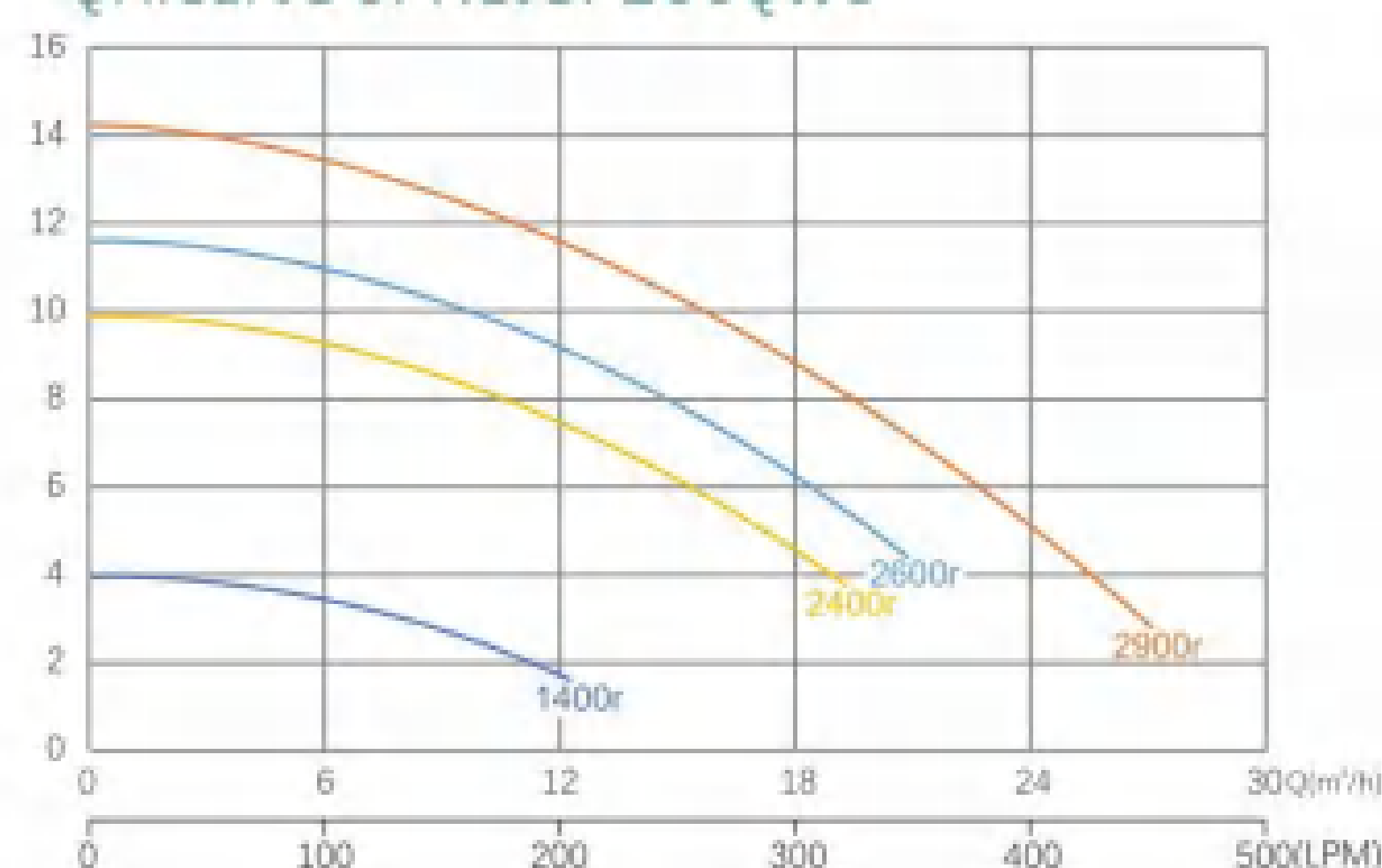
QH.Curve of HLVSP150QW



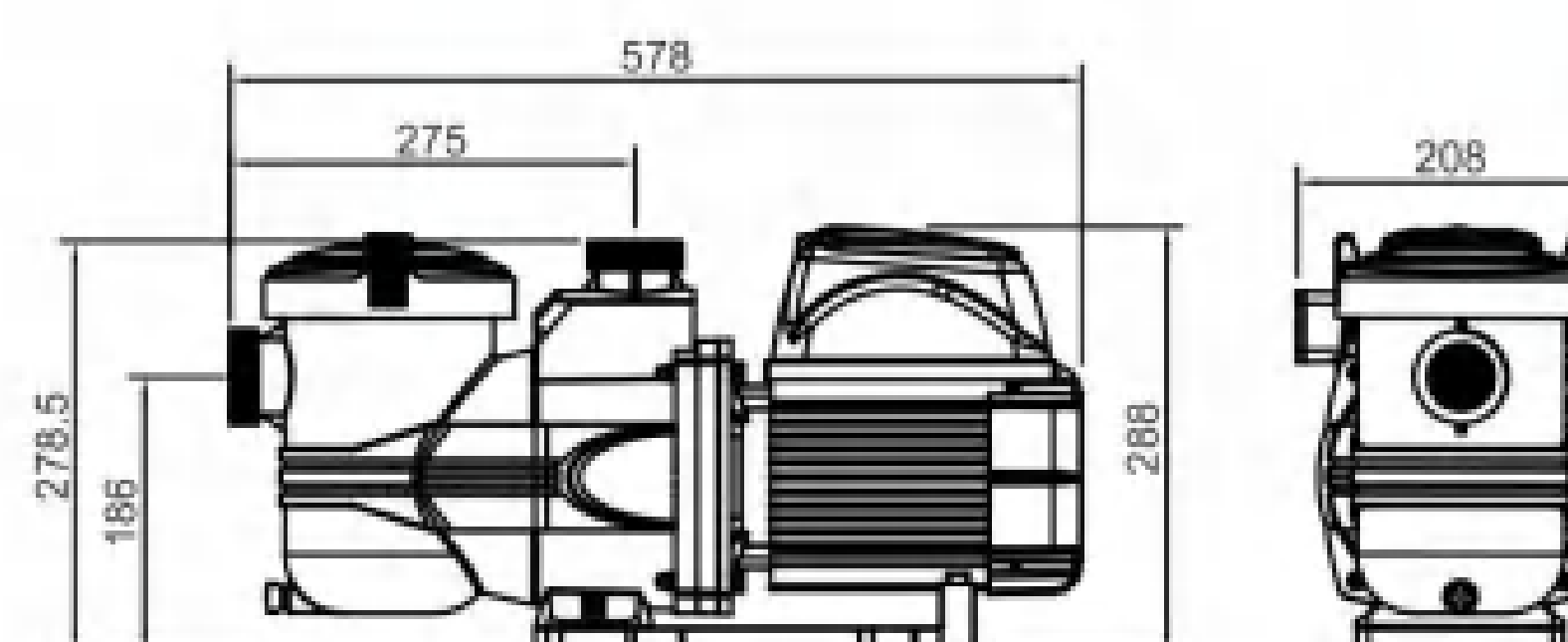
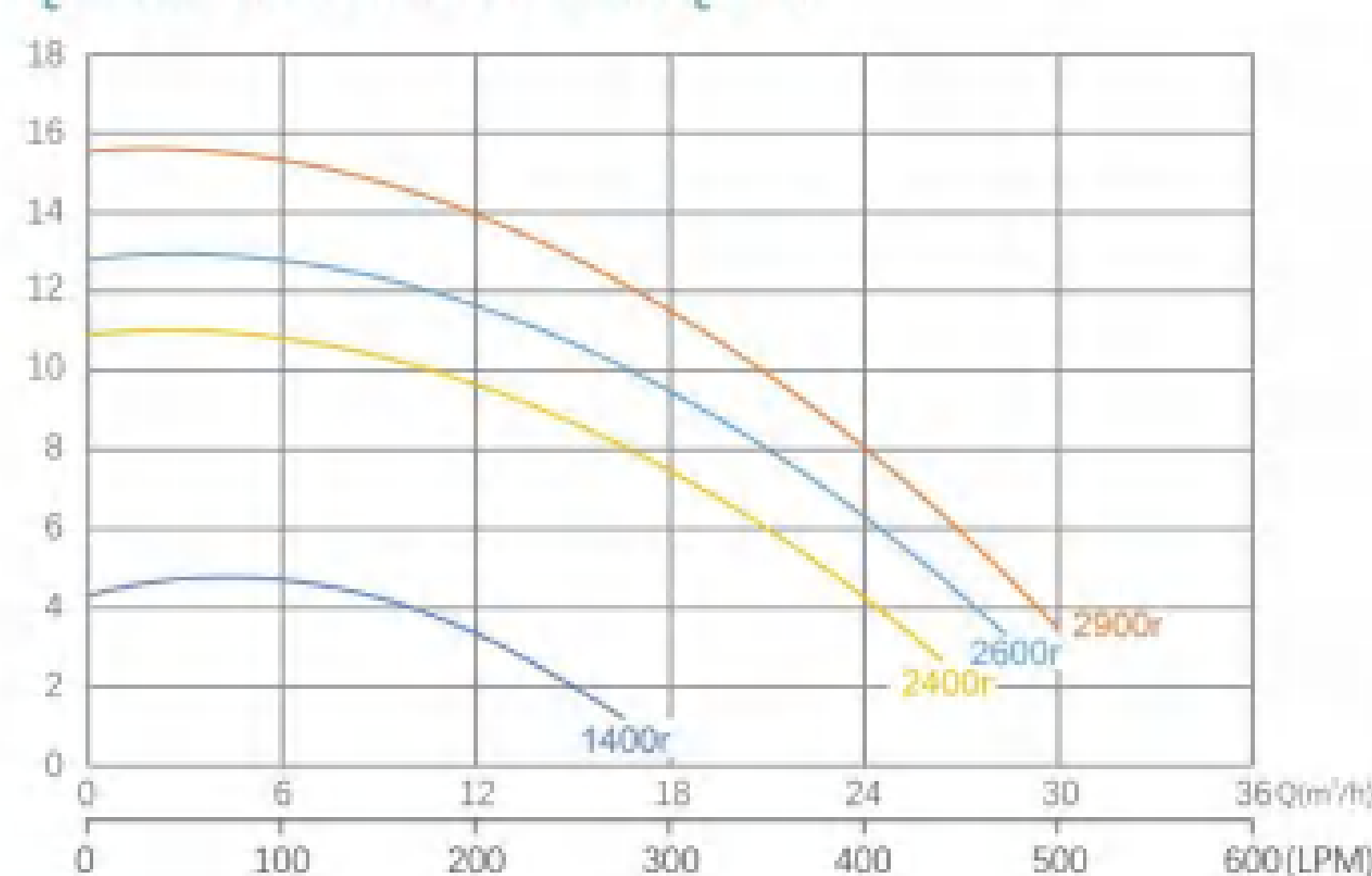
QH.Curve of HLVSP200QW



QH.Curve of HLVSP100QWU



QH.Curve of HLVSP150QWU



Model	Output power (P2)		Rated power supply	Max. current (A)	RPM	Max. Flow (m³/h)	Max. Head (m)	Circulation Flow		Connection Size	Packing size (mm)
	Horse power (HP)	Rated power (kW)						Flow at 8m (m³/h)	Flow at 10m (m³/h)		
WL-HLVSP100QW	1	0.75	220V-240V; 50Hz/60Hz	4.1	1000-2900	27	14.5	20	16	2"/63mm	620×280×380
WL-HLVSP150QW	1.5	1.1	220V-240V; 50Hz/60Hz	5.5	1000-2900	30	16	24	21	2"/63mm	620×280×380
WL-HLVSP200QW	2	1.5	220V-240V; 50Hz/60Hz	7	1000-2900	33	17	26	23	2"/63mm	620×280×380
WL-HLVSP100QWU	1	0.75	110V-120V; 50Hz/60Hz	8	1000-2900	27	14.5	20	16	2"/63mm	620×280×380
WL-HLVSP150QWU	1.5	1.1	110V-120V; 50Hz/60Hz	11	1000-2900	30	16	24	21	2"/63mm	620×280×380

HLLF SERIES PUMP

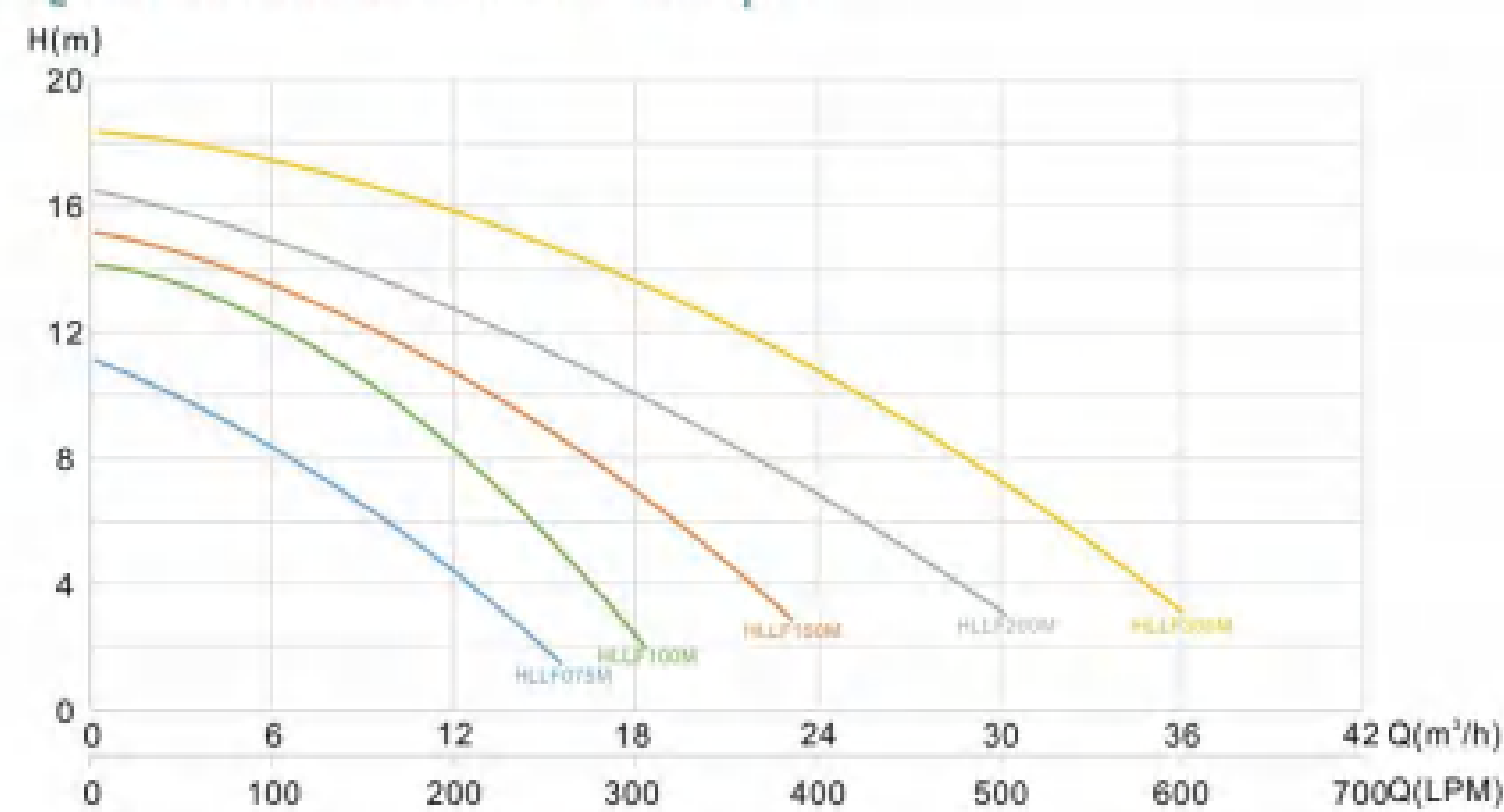
Material:

- Pump housing: PP+35%GF
- Filter basket: PP
- Shaft: SS316
- Bearing: NSK
- Mechanical seal: Carbon+Resin-Ceramics (Carbon, Ceramics, SS304,NBR)
- Impeller: Noryl+30% Fiberglass
- Diffuser and pump base: PP+35% Fiberglass

Features:

- The inlet and outle of this series comes with an external thread, which can be used to connect to metric or imperial pipes.
- The pump has excellent performance and reliable quality, which can bear 25000 times of impact test.
- Low noise: 0.75 HP can lower than 65 dB.
- Liquid Temperature: 5~ 50 °C (41 ~ 122 °F).
- Ambient Temperature: up to 45°C (113°F).
- Maximum working pressure: 2.5 bar.
- IPX5 waterproof standard
- Class I protection against electric shock.
- Thermal protection included.
- Motor: 3000r.p.m.
- Single phase:220V/50Hz
- 220V/60Hz, 380V/50Hz are available on request

QH.Curve of The Pump

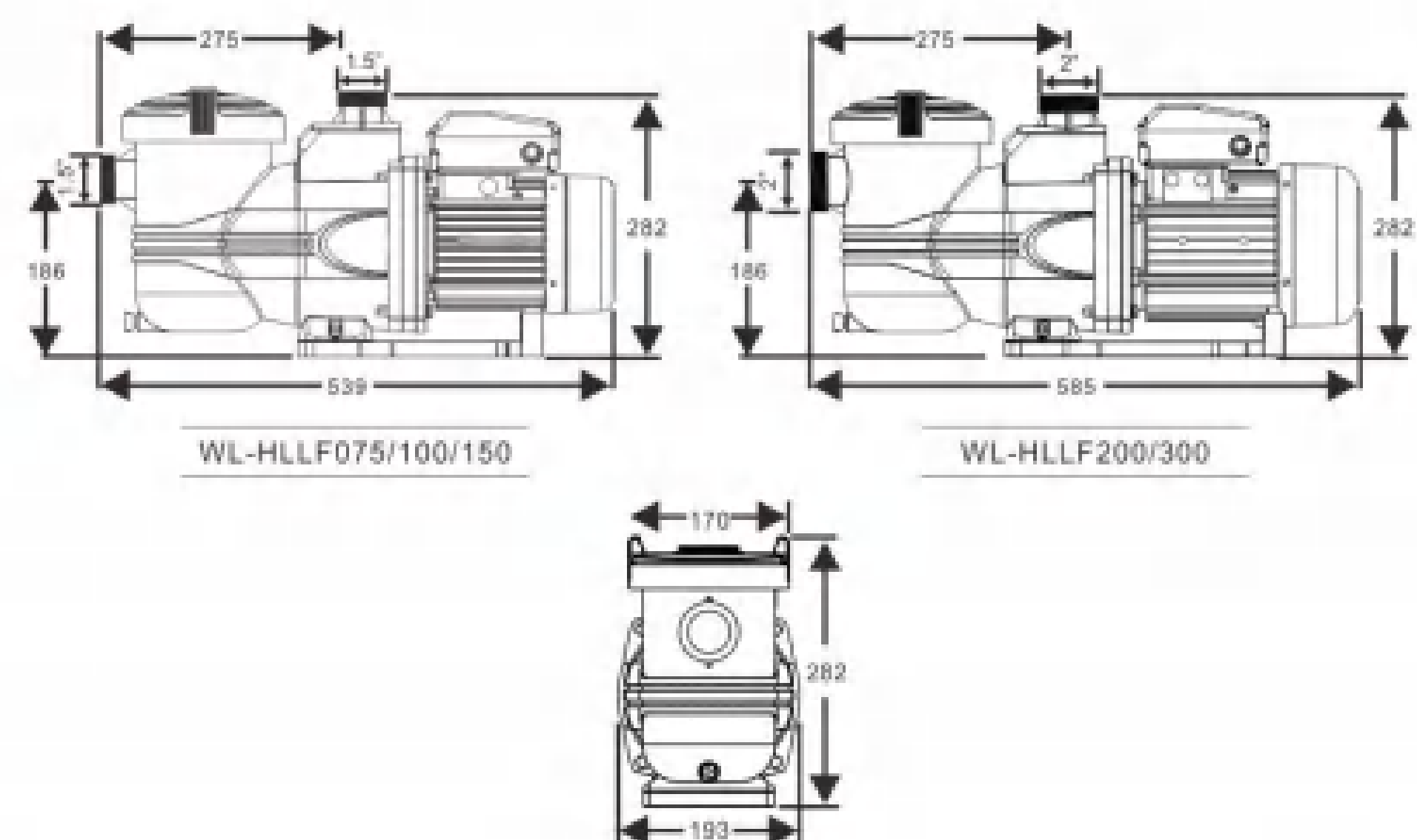


0.75HP-1.5HP



2.0HP-3.0HP

RECIRCULATION
PUMP



Model	Q-max (m³/h)	H-max (m)	Horsepower (HP)	Rated Power (kw)	Phase	Voltage (V)	Connection size
WL-HLLF075M	14.8	11.1	0.75	0.6	1	220	1.5" 50mm
WL-HLLF100M	17.4	14.1	1	0.8	1	220	1.5" 50mm
WL-HLLF150M	22.1	15.1	1.5	1.1	1	220	1.5" 50mm
WL-HLLF200M	30.2	16.4	2	1.6	1	220	2" 63mm
WL-HLLF300M	36	18.2	3	2.2	1	220	2" 63mm
WL-HLLF100T	15.8	13.9	1	0.8	3	380	1.5" 50mm
WL-HLLF150T	22.7	15.2	1.5	1.1	3	380	1.5" 50mm
WL-HLLF200T	33.1	16.9	2	1.6	3	380	2" 63mm
WL-HLLF300T	39.8	18.2	3	2.2	3	380	2" 63mm

BHP SERIES PUMP

The BHP pump is a high-performance, professional-grade pump engineered for reliability. Upgraded hydraulics and vortex pump technology deliver superior high-flow and high-head performance. A high-efficiency self-priming system ensures stable operation and easy maintenance. Compatible with saltwater systems and built with Class F insulation and IPX5 protection for long-term durability.

Superior Hydraulic Performance: High Flow, High Head, Powerful Output

Equipped with LASWIM's patented large diffuser and high-efficiency impeller for optimized hydraulic performance. Upgraded TS vortex pump technology delivers strong, stable flow, even under high-head and long-distance circulation conditions.

Advanced Self-Priming Technology: Rapid Start-Up, Strong flow, Efficient Operation

Optimized hydraulic design reduces turbulence and energy loss. The high-performance self-priming system ensures fast priming and stable operation in demanding conditions

Easy Installation: Quick Connection, Plug-and-Play

Equipped with 2-inch pipe connections for quick system integration without additional modifications. Simplified installation saves time and labor costs.

Easy Maintenance: Effective Clog Prevention, Hassle-Free Upkeep

Built-in large-capacity strainer basket effectively captures hair and debris, reducing the risk of clogging. Quick-access basket design allows easy removal and cleaning for simplified maintenance.

Strong Environmental Adaptability: Compatible with Salt Chlorinator Systems, Wide Temperature Operation

Compatible with salt Chlorinator systems and resistant to saltwater up to 4500 ppm. Operates reliably in temperatures from 5°C to 50°C, suitable for pools, spas, and hot spring applications.

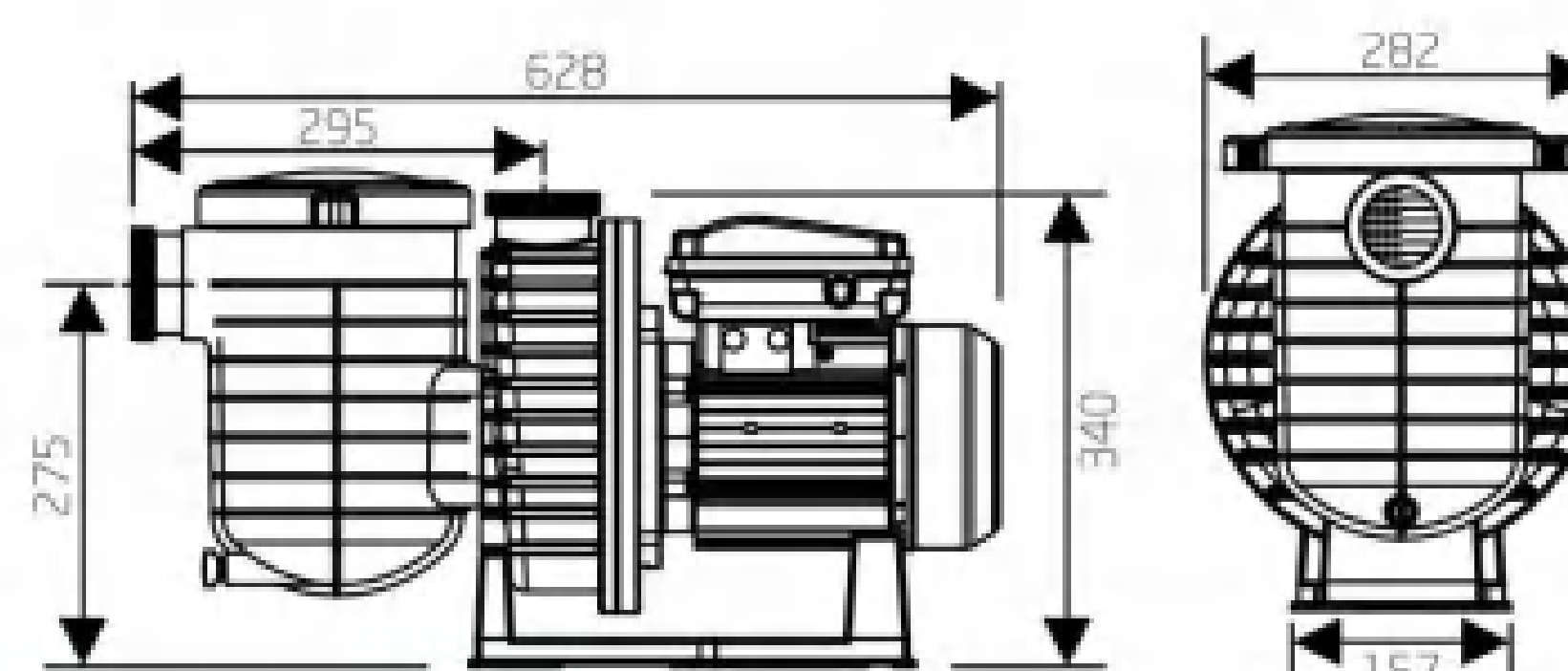
Rigorous Quality Validation: High-Strength Testing, Stable and Reliable

Validated through 25,000-cycle durability and impact tests. Ensures stable performance and long-term reliability under demanding conditions.

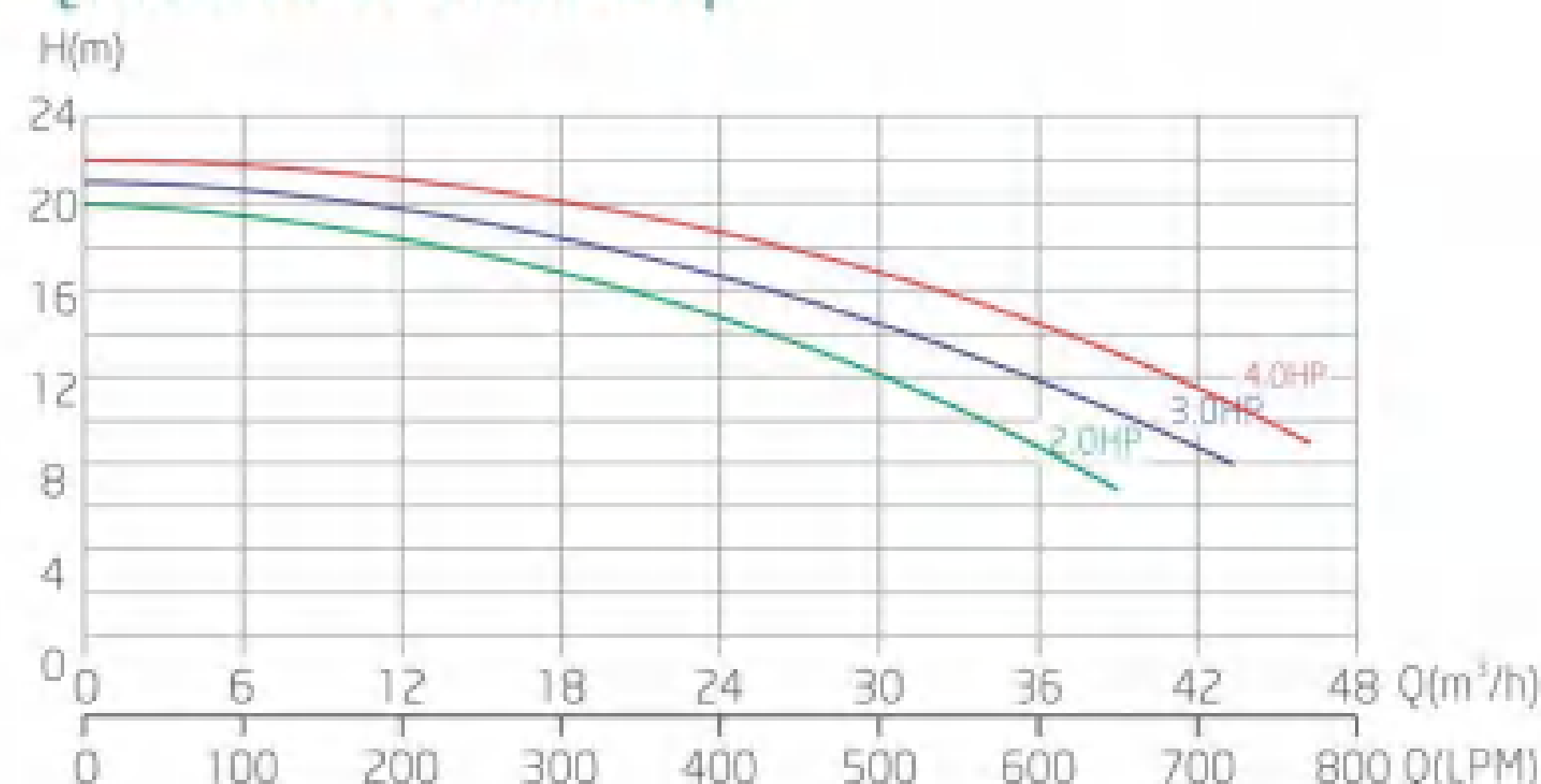


Shaft	#45 Carbon Steel + SS316 Stainless Steel
Housing, Front Cover & Rear Cover	Die-cast Aluminum Alloy
Winding Coil	Copper Wire (155°C temperature resistant)
Pump Housing	PP+35%GF
Impeller	PP+35%GF+Copper Insert
Filter Basket	PP
Max. Working Pressure	0.35Mpa
Media Temperature	5°C-50°C
Ingress Protection	IPX5
Key	SS316
Bearings	NSK
Motor Fan	PP
Seal Plate/Diffuser	PP+35%GF
Pump Head	Black
Pump Base	PP+35%GF
Operating Temperature	5°C-45°C
Insulation Class	F
Rated Speed	2900RPM/50hz

The pump delivers excellent performance and reliable quality, capable of withstanding 25,000 cycles of rigorous lifespan testing and high-impact tests.



QH.Curve of The Pump



Model	Q-max (m³/h)	H-max (m)	Horsepower (HP)	Rated Power (kW)	Phase	Voltage (V)	Connection size
WL-BHP200MS	38	20	2.0	1.5	1	220	2" 63mm
WL-BHP300MS	42	21	3.0	2.2	1	220	2" 63mm
WL-BHP200TS	38	20	2.0	1.5	3	380	2" 63mm
WL-BHP300TS	42	21	3.0	2.2	3	380	2" 63mm
WL-BHP400TS	45	22	4.0	3.0	3	380	2" 63mm

KUP SERIES SEAWATER PUMP

KUP series is used for water circulation in all kinds of small aquaculture and seawater pond, with enough horsepower and stable operation. The pump is constructed with corrosion resistant and high strength material, with excellent bearing pressure performance up to 6kg/cm². Suitable for all kinds of seawater condition.

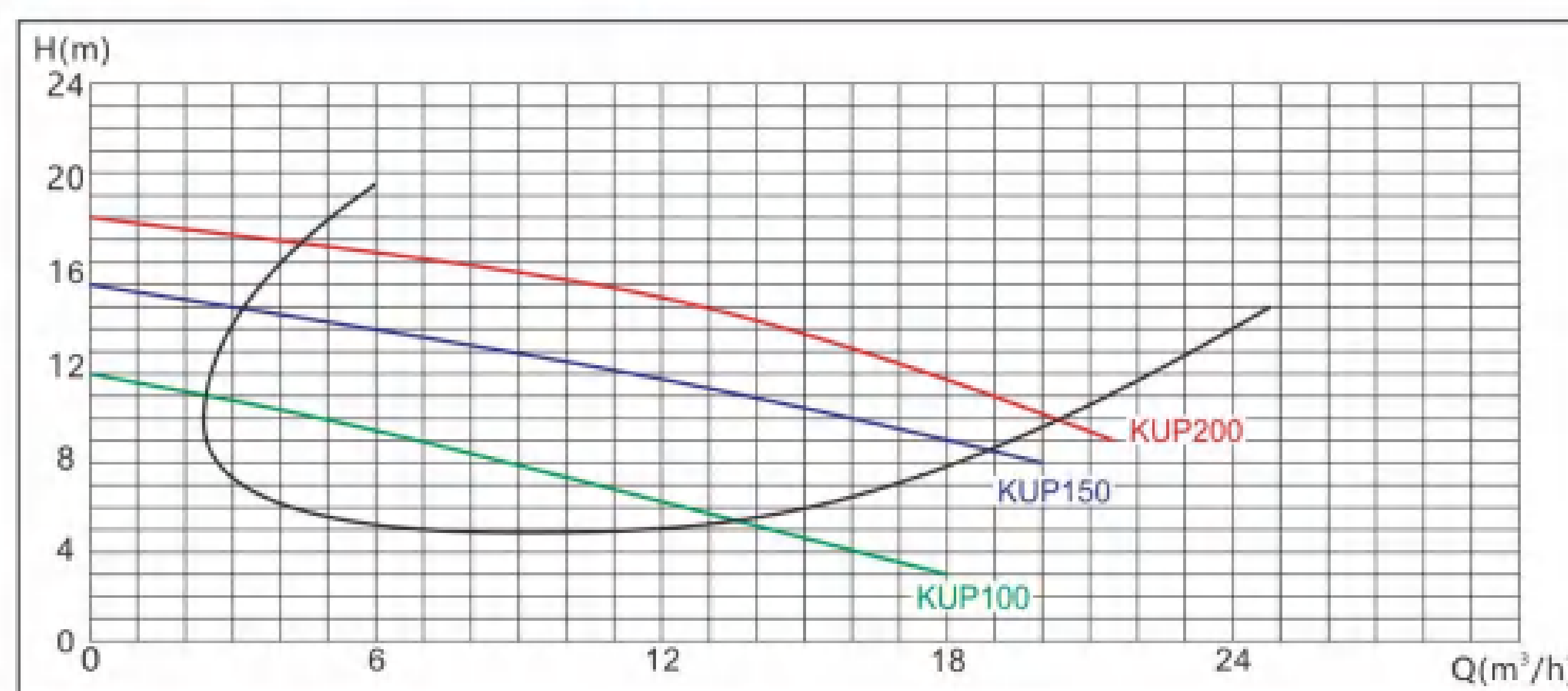
Features:

- Protection: IP55.
- Large flow rate.
- Low noise level.
- Excellent bearing pressure performance up to 6kg/cm².
- Shaft: Stainless steel 316.
- Mechanical seal: Graphite / Ceramic seal.



RECIRCULATION
PUMP

QH. Curve of The Pump



Product parameters

Model	Horsepower (HP)	Rated Power (KW)	Voltage (V)	Connection size (mm)	Weight (kg)	L (mm)	W (mm)	H (mm)
WL-KUP100	1	0.75	220	50	15.2	598.5	220	370
WL-KUP150	1.5	1.1	220	50	15.6	598.5	220	370
WL-KUP200	2	1.5	220	50	16.0	598.5	220	370

KAP SERIES SEAWATER PUMP

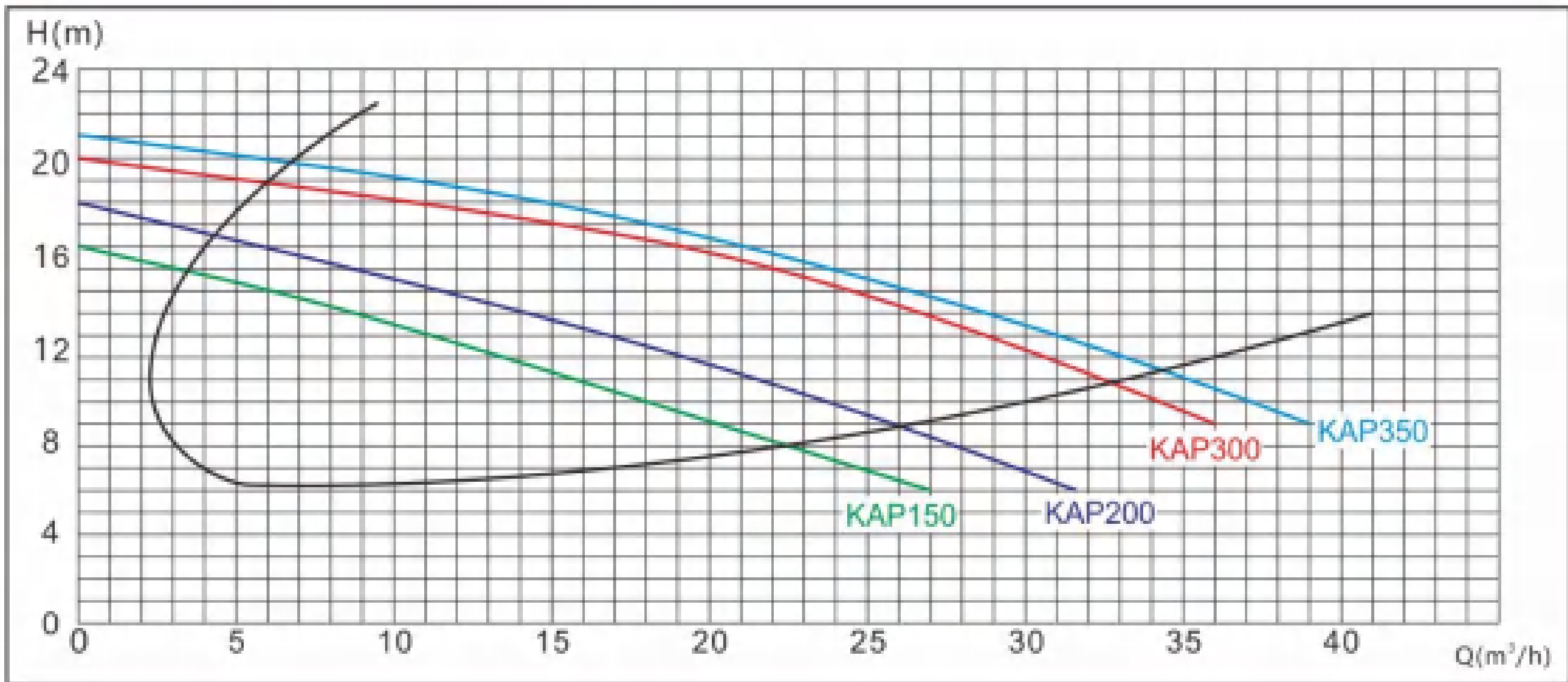
KAP series seawater pump is with simple design, easy to install and maintain. Adopts special impeller for greater suction efficiency. The body is constructed of special materials, with excellent bearing pressure performance up to 6kg/cm². Suitable for all kinds of aquaculture ponds and seawater ponds.

Features:

- Protection: IP55.
- Large flow rate.
- Low noise level.
- Excellent bearing pressure performance up to 6kg/cm².
- Shaft: Stainless steel 316.
- Mechanical seal: Graphite / Ceramic seal.



QH. Curve of The Pump



Product parameters

Model	Horsepower (HP)	Rated Power (KW)	Voltage (V)	Connection size (mm)	Weight (kg)	L (mm)	W (mm)	H (mm)
WL-KAP150	1.5	1.1	220	63	20.8	700	221	378
WL-KAP200	2	1.5	220	63	22.0	700	221	378
WL-KAP300	3	2.2	220/380	63	24.0	700	221	378
WL-KAP350	3.5	2.6	220/380	63	25.0	700	221	378

KBP SERIES SEAWATER PUMP

KBP seawater pump is a series of sturdy and durable pump with high head and sufficient flow. The body has strong sealing, corrosion resistance and pressure resistance. Suitable for all kinds of aquaculture ponds and seawater ponds.

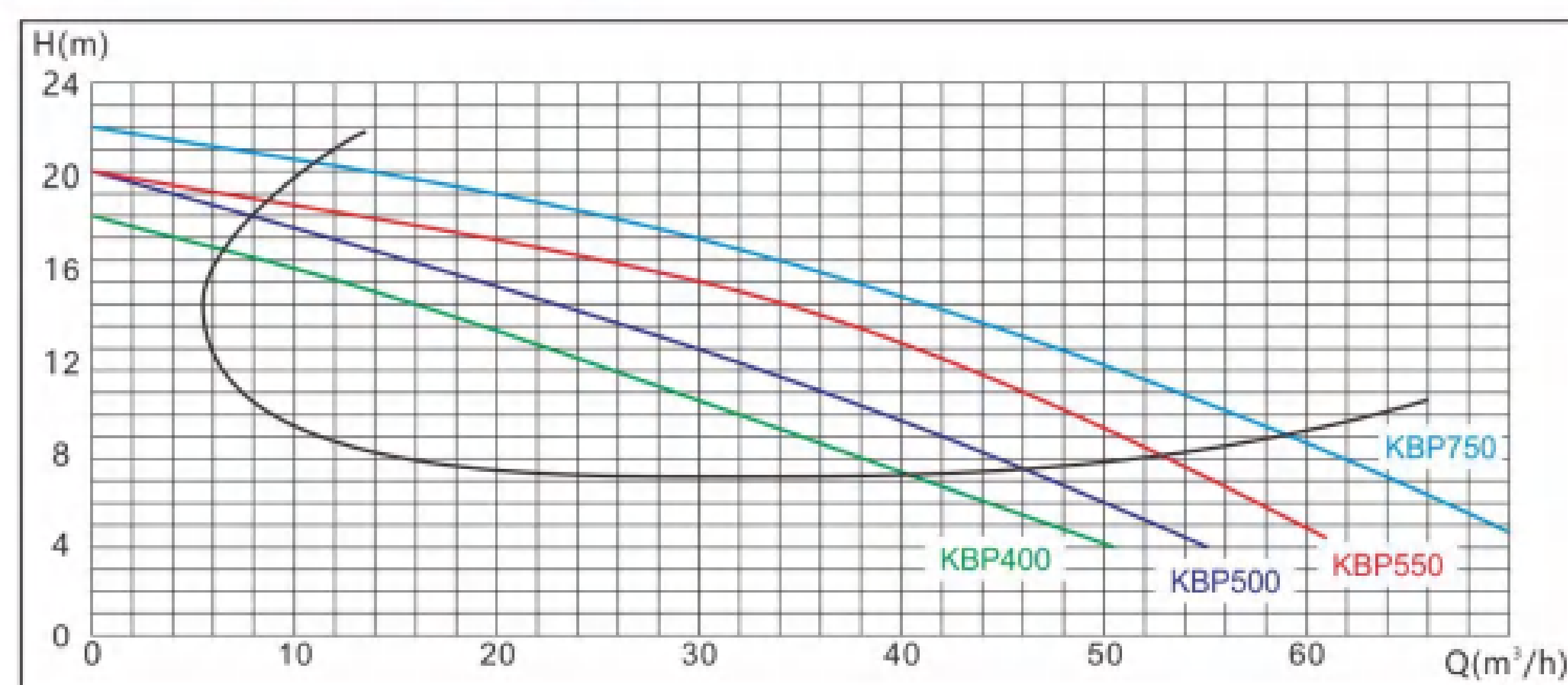
Features:

- Protection: IP55.
- Large flow rate.
- Low noise level.
- Excellent bearing pressure performance up to 6kg/cm².
- Shaft: Stainless steel 316.
- Mechanical seal: Graphite / Ceramic seal.



RECIRCULATION
PUMP

QH. Curve of The Pump



Product parameters

Model	Horsepower (HP)	Rated Power (Kw)	Voltage (V)	Connection size (inch)	Speed (rpm)	L (mm)	W (mm)	H (mm)
WL-KBP400	4	3.0	380	2.5"	2850	750	221	373
WL-KBP500	5	3.8	380	2.5"	2850	750	221	373
WL-KBP550	5.5	4.0	380	2.5"/3"	2850	770	221	373
WL-KBP750	7.5	5.5	380	2.5"/3"	2850	780	221	373

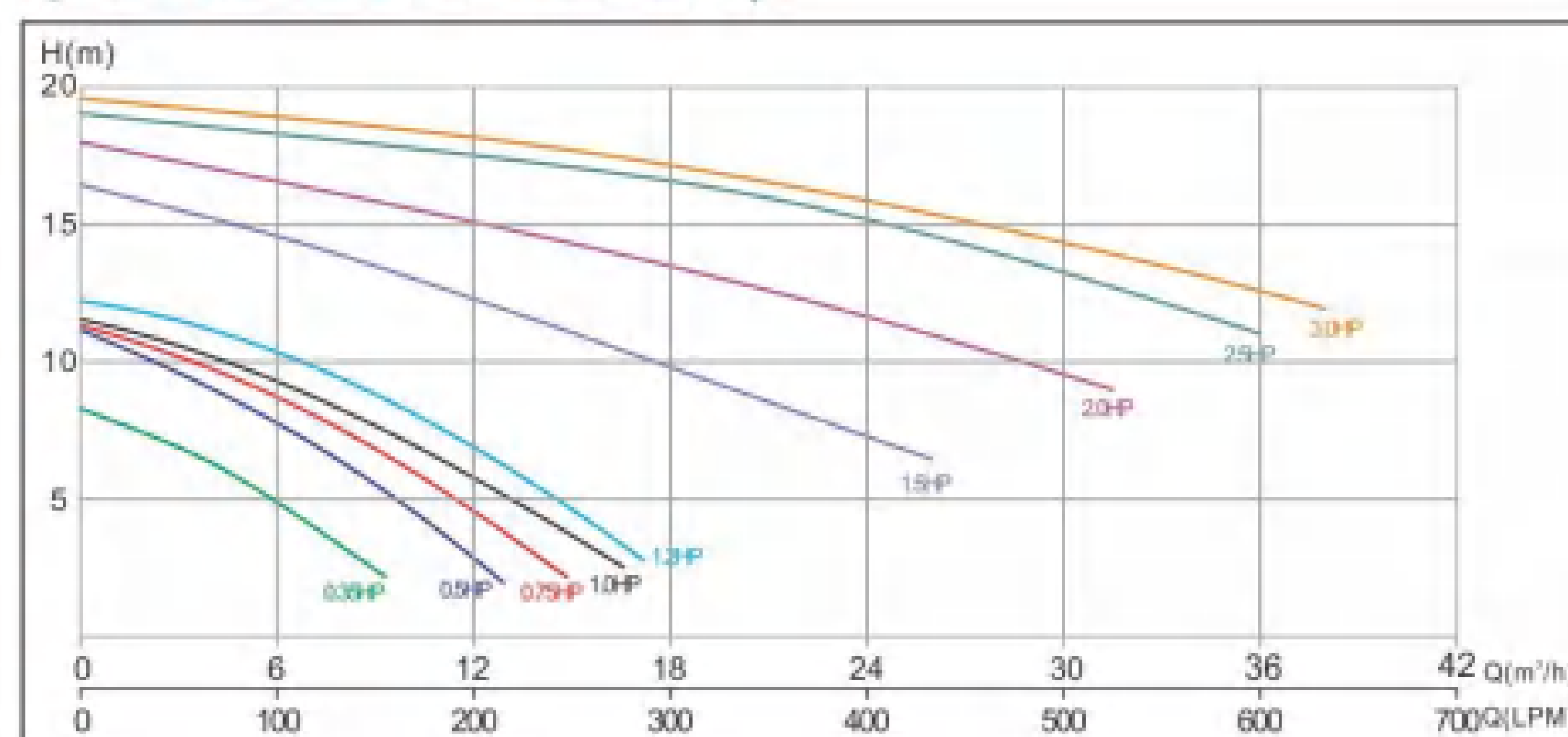


0.35HP-1.2HP



1.5HP-3.0HP

QH.Curve of The Pump



STP SERIES PUMP

Features:

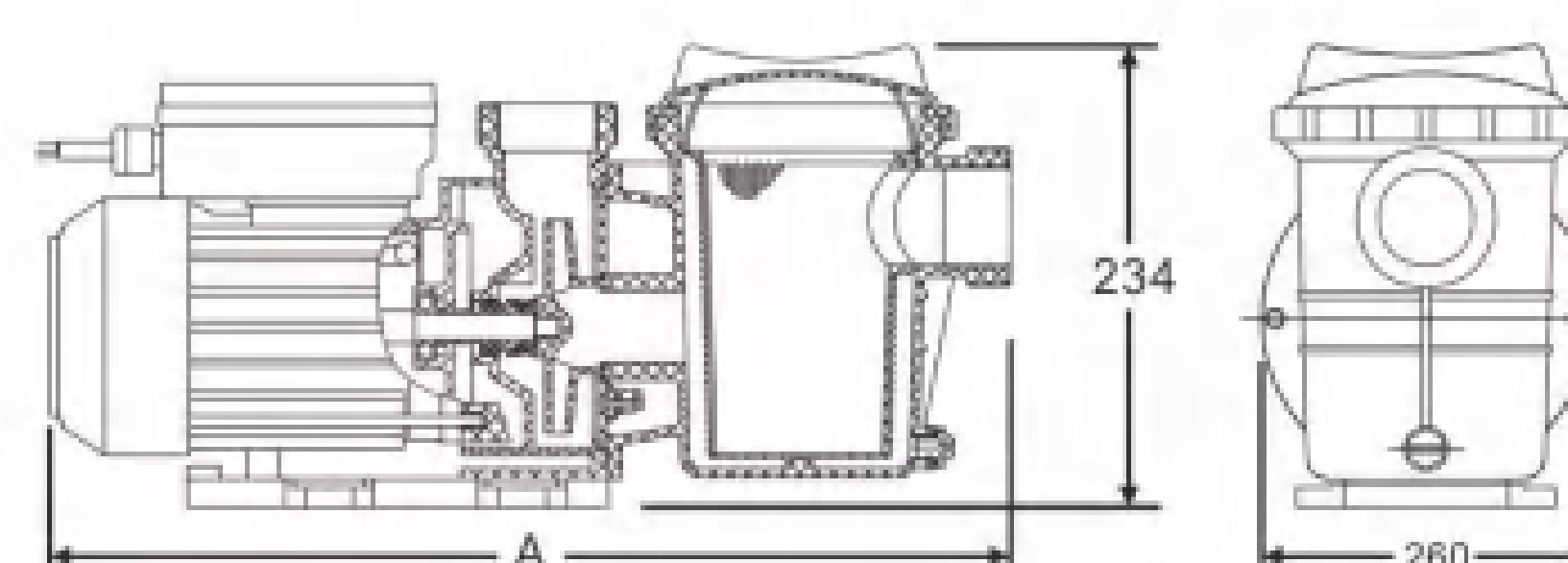
- Motor and water are completely separated.
- Total electrical separation.
- Pump housing, pump cover & impeller are made of high reinforced plastic.
- Quick record could be used with the inlet & outlet.

Operation conditions:

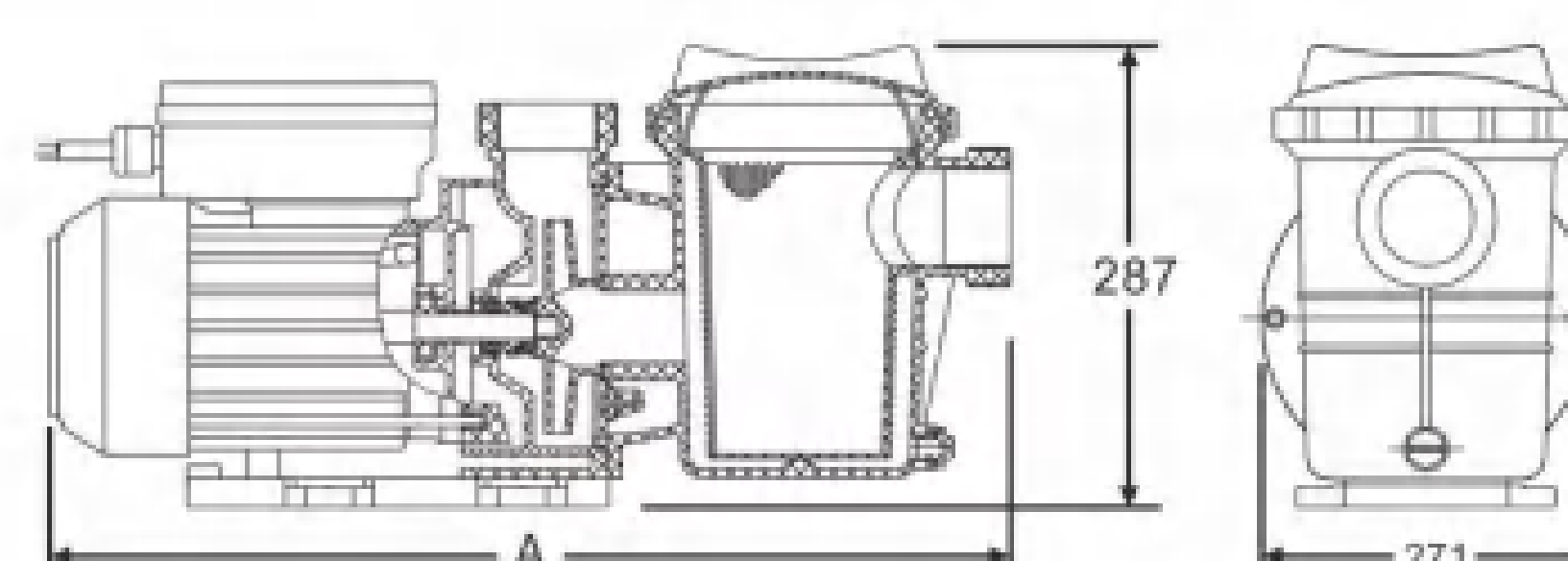
- Liquid Temperature: 5 ~ 50 °C (41 ~ 122 °F).
- Ambient Temperature: up to 50 °C (122 °F).
- Maximum working pressure: 3.0 bar.

Applications:

- Jet pump for jetted bath tubs, spa pools, swimming pools, massage stations and cleaning system.



WL-STP35~WL-STP120



WL-STP150~WL-STP300

Model	Q-max (m³/h)	H-max (m)	Horsepower (HP)	Rated Power (kW)	Phase	Voltage (V)	Connection size	A Length (mm)
WL-STP35	9.6	8	0.35	0.26	1	220	1.5" or 50mm	443
WL-STP50	12.6	11	0.5	0.37	1	220	1.5" or 50mm	443
WL-STP75	14.4	10.5	0.75	0.56	1	220	1.5" or 50mm	465
WL-STP100	16.5	11	1.0	0.75	1	220	1.5" or 50mm	465
WL-STP120	18	13	1.2	0.9	1	220	1.5" or 50mm	465
WL-STP150	25.8	16.5	1.5	1.1	1	220	2" or 63mm	573
WL-STP200	31.2	18	2.0	1.5	1	220	2" or 63mm	573
WL-STP250	36	19	2.5	1.87	1	220	2" or 63mm	573
WL-STP300	38.1	19.5	3.0	2.25	1	220	2" or 63mm	598
WL-STP300	38.1	19.5	3.0	2.25	3	380	2" or 63mm	598

HGP-E SERIES SEAWATER PUMP

HGP-E series pump is a newly-patented large flow self-priming plastic pump, adopting bionic turbo pump body design, maximizing the conversion of motor efficiency to deliver massive & smoothly water flow, with a max flow rate up to 260m³/h. The hickened body and spiral lock design, excellent bearing pressure performance make the pump sturdy and durable. Due to the imported bearings and high-quality mechanical seal, the motor operates more stably and quietly. It has flange inlet and outlet which is convenient for installation and operation, easy to maintain. All spare parts are available, suitable for seawater condition.

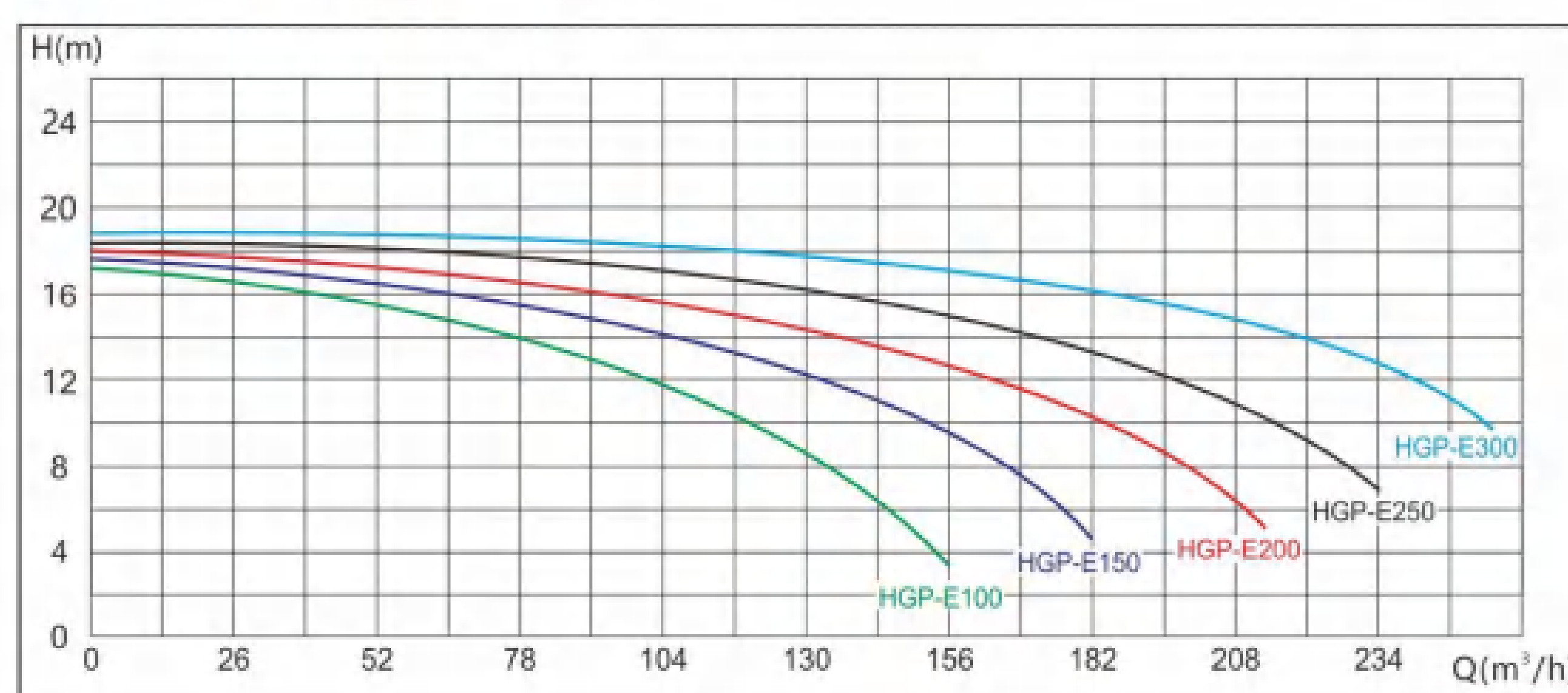
Features:

- Super water flow up to 260m³/h.
- Four-pole motor, speed: 1450RPM.
- High-quality mechanical seal, super quiet operation.
- Protection: IP55.
- Insulation: Class F.
- Bionic turbo pump body design.
- Excellent bearing pressure performance up to 6kg/cm².



RECIRCULATION
PUMP

QH. Curve of The Pump



Product parameters

Model	Horsepower (HP)	Rated Power (KW)	Voltage (V)	Max. head (m)	Max. flow rate (m ³ /h)	RPM (r/min)	Water inlet size (inch)	Water outlet size (inch)
WL-HGP-E100	10.0	7.5	380V/50Hz	18	170	1450	150mm	125mm
WL-HGP-E150	15.0	11.0	380V/50Hz	18	185	1450	150mm	125mm
WL-HGP-E200	20.0	15	380V/50Hz	18	220	1450	150mm	125mm
WL-HGP-E250	25.0	18.5	380V/50Hz	18	240	1450	150mm	125mm
WL-HGP-E300	30.0	22	380V/50Hz	18	260	1450	150mm	125mm

SLP SERIES WATER PUMP

Designed for long-term safe operation in media temperatures up to 75°C, making them ideal for natural hot spring water circulation. Suitable for large-scale water parks, aquariums, and swimming pools.

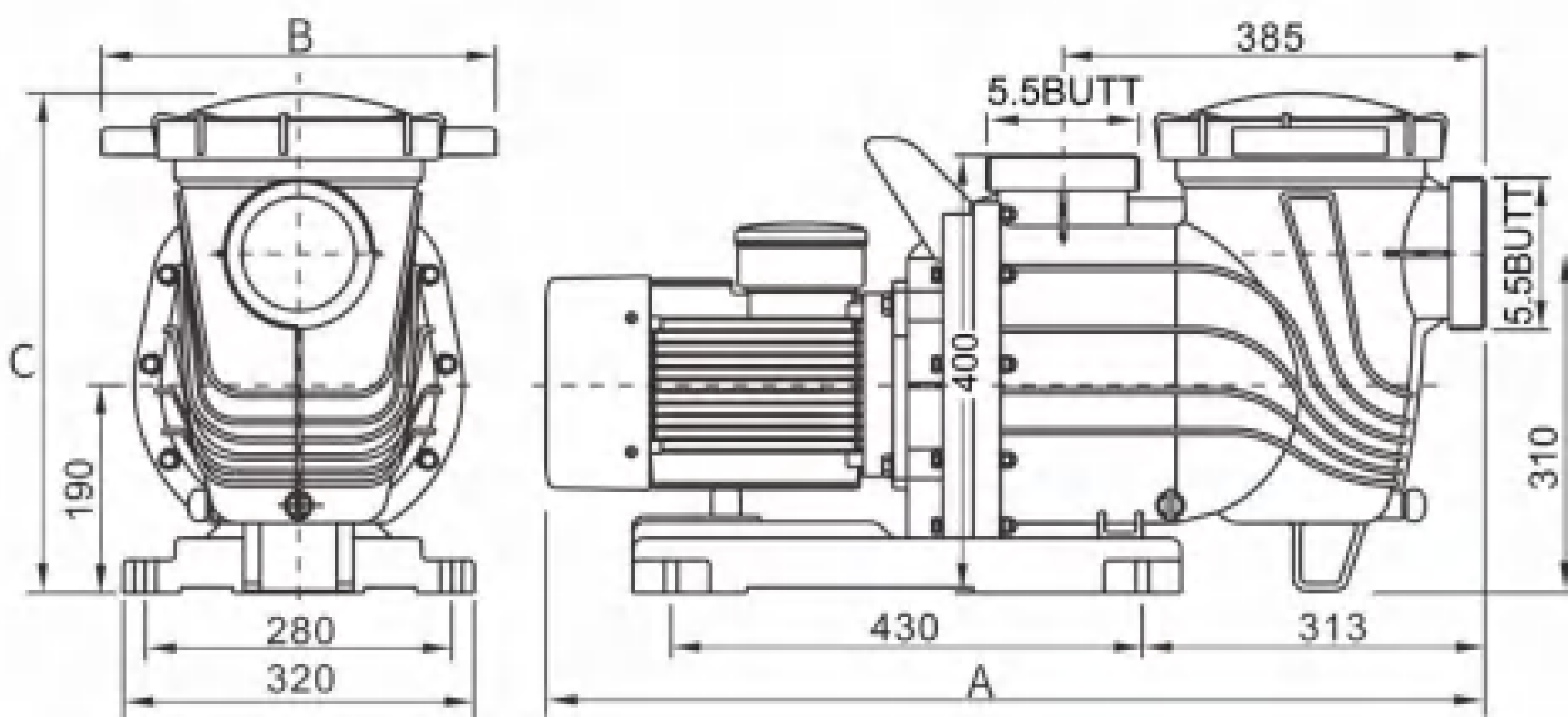
Product Features:

- Integrated plastic mounting baseplate.
- High-efficiency motor for energy savings and extended service life.

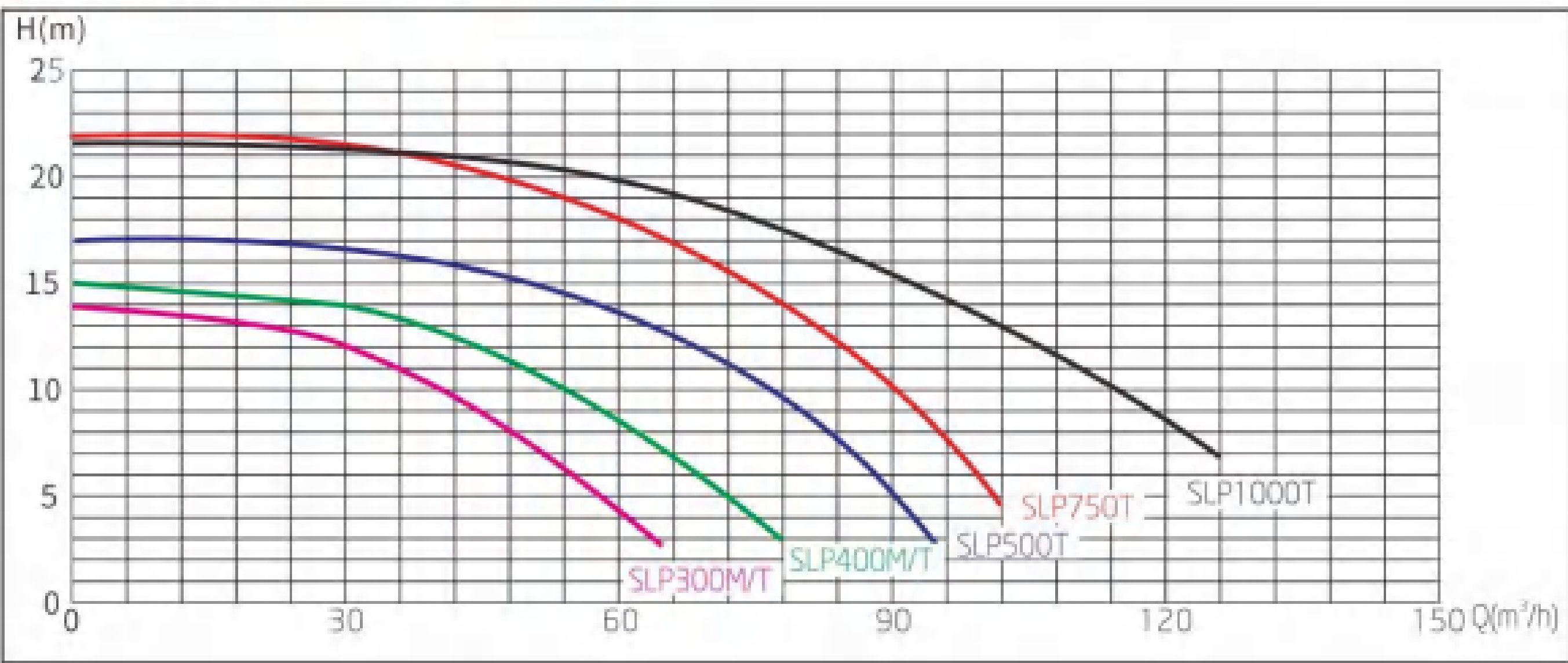


Operating Conditions:

- Media temperature: 0 to 75°C
- Ambient temperature: $\leq +50^{\circ}\text{C}$
- Maximum working pressure: 0.7 MPa



QH. Curve of The Pump

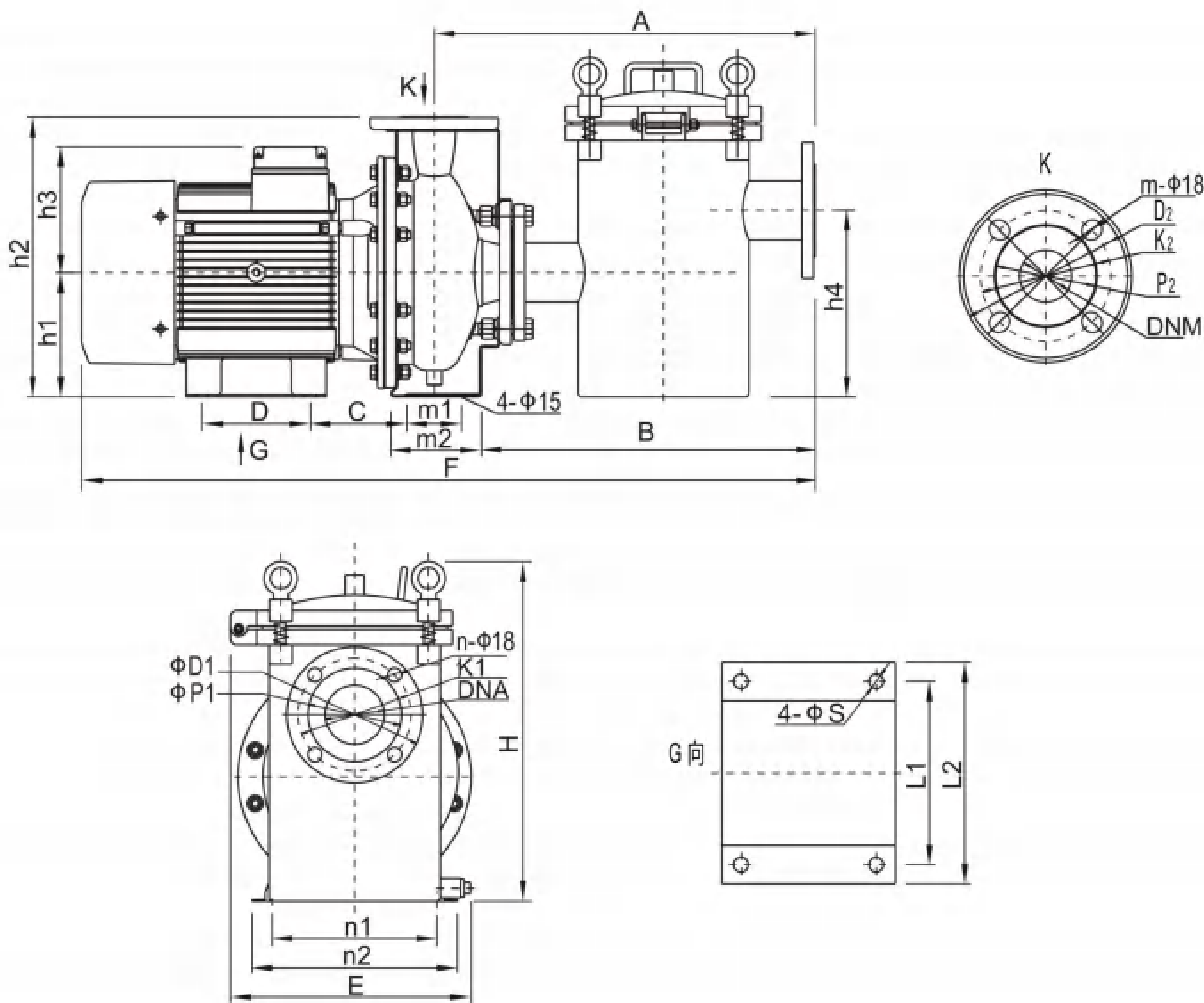


Product parameters

Model	Q-Max (m³/h)	H-Max (m)	Current (A)		Input power		A Length (mm)	B Width (mm)	C Height (mm)	Connection size (inch/mm)		Weight (kg)	Packing size (mm)
			220V/50Hz	380V/50Hz	kW	HP				3"	4"		
WL-SLP300M/T	64.8	14	10	4.1	2.2	3	800	360	456	88.9 90	110 114.3	45.5	840×395×600
WL-SLP400M/T	78	15	14	5.2	3.0	4	800	360	456			47	
WL-SLP500T	94.8	17	----	8.2	4.0	5	857	360	456			54.5	930×395×600
WL-SLP750T	102	22	----	9.6	5.5	7.5	857	360	456	90	114.3	60.3	
WL-SLP1000T	126	21.5	----	11.1	7.5	10	887	360	456			64.5	

LCAP SERIES STAINLESS STEEL WATER PUMP

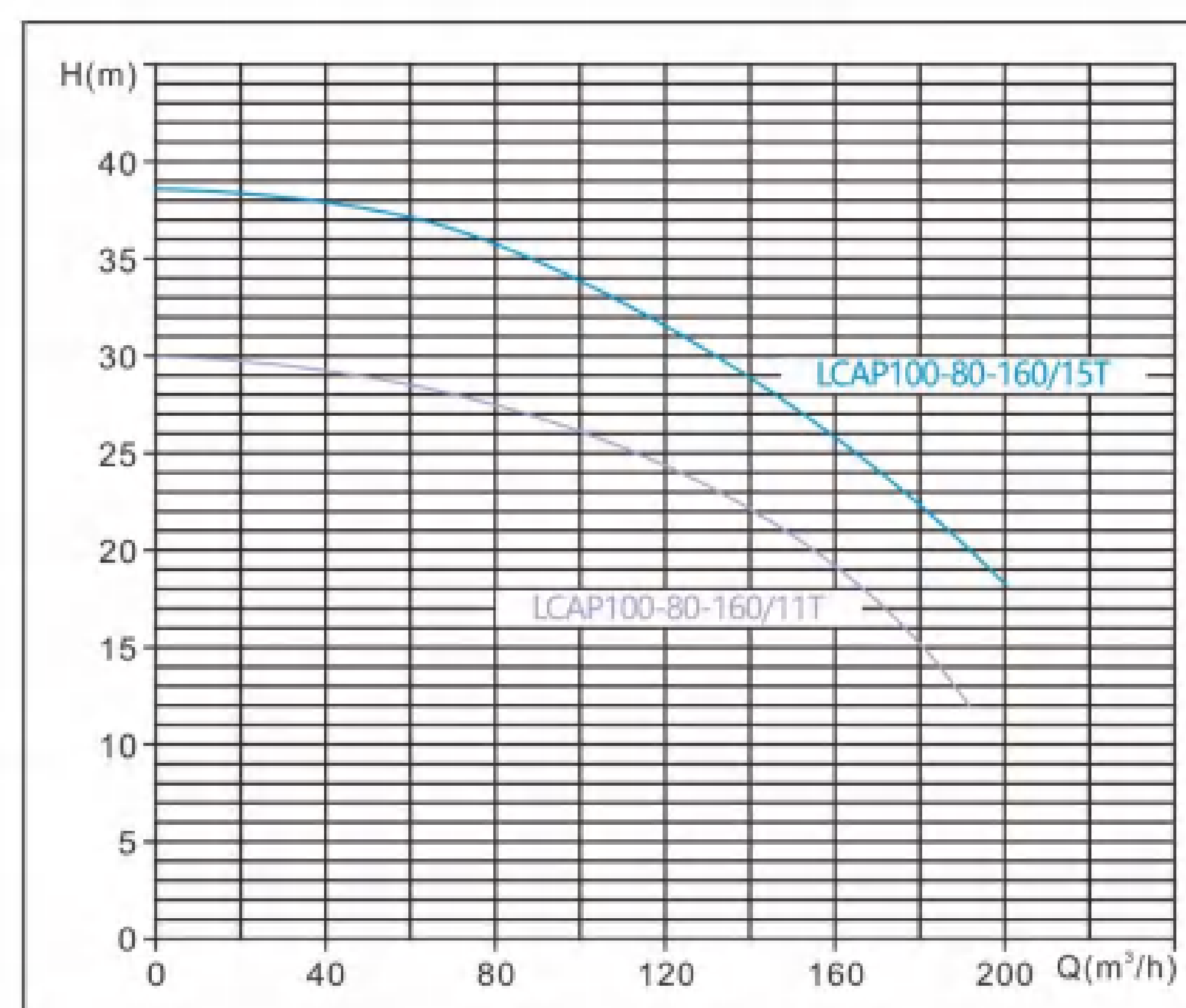
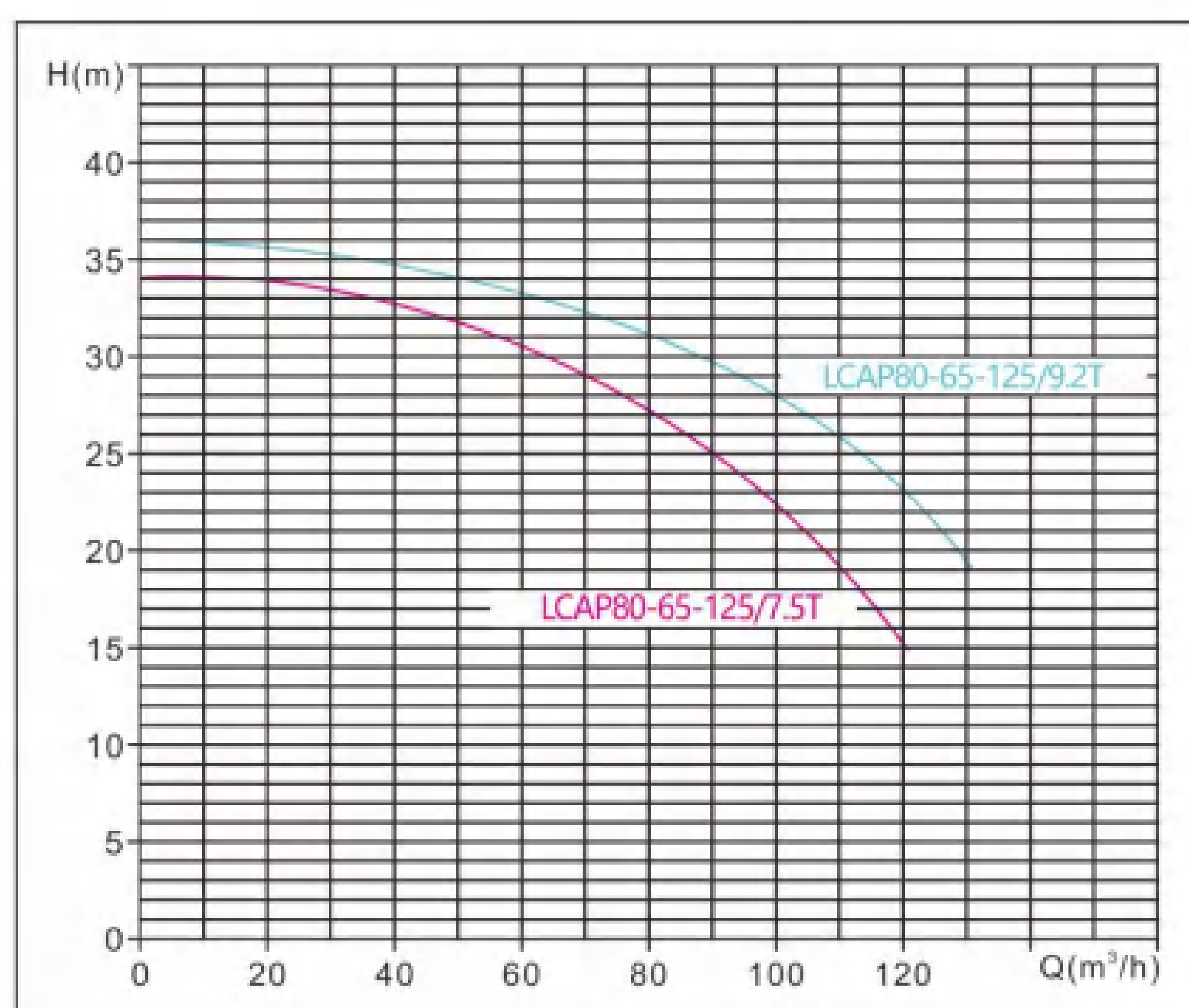
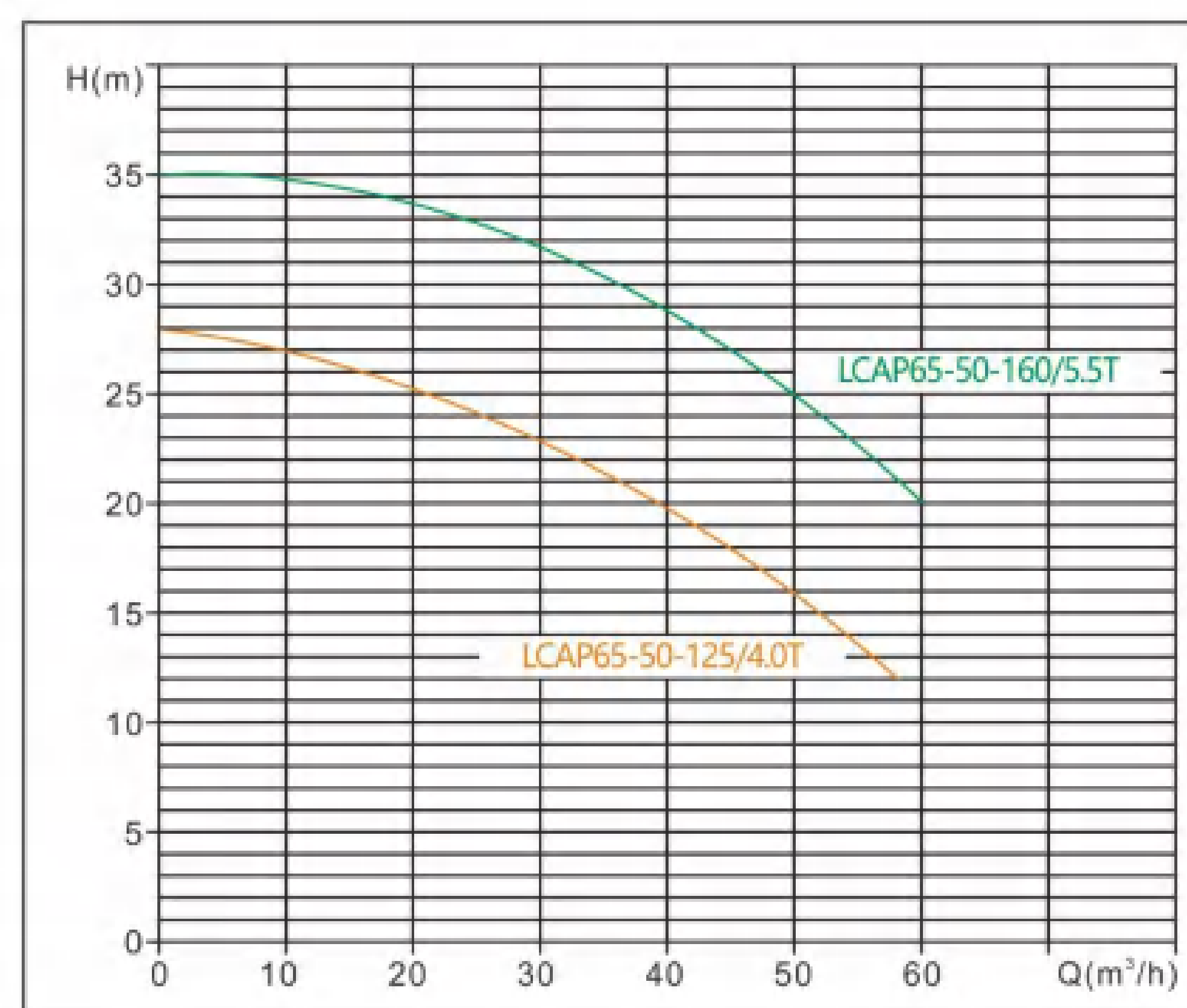
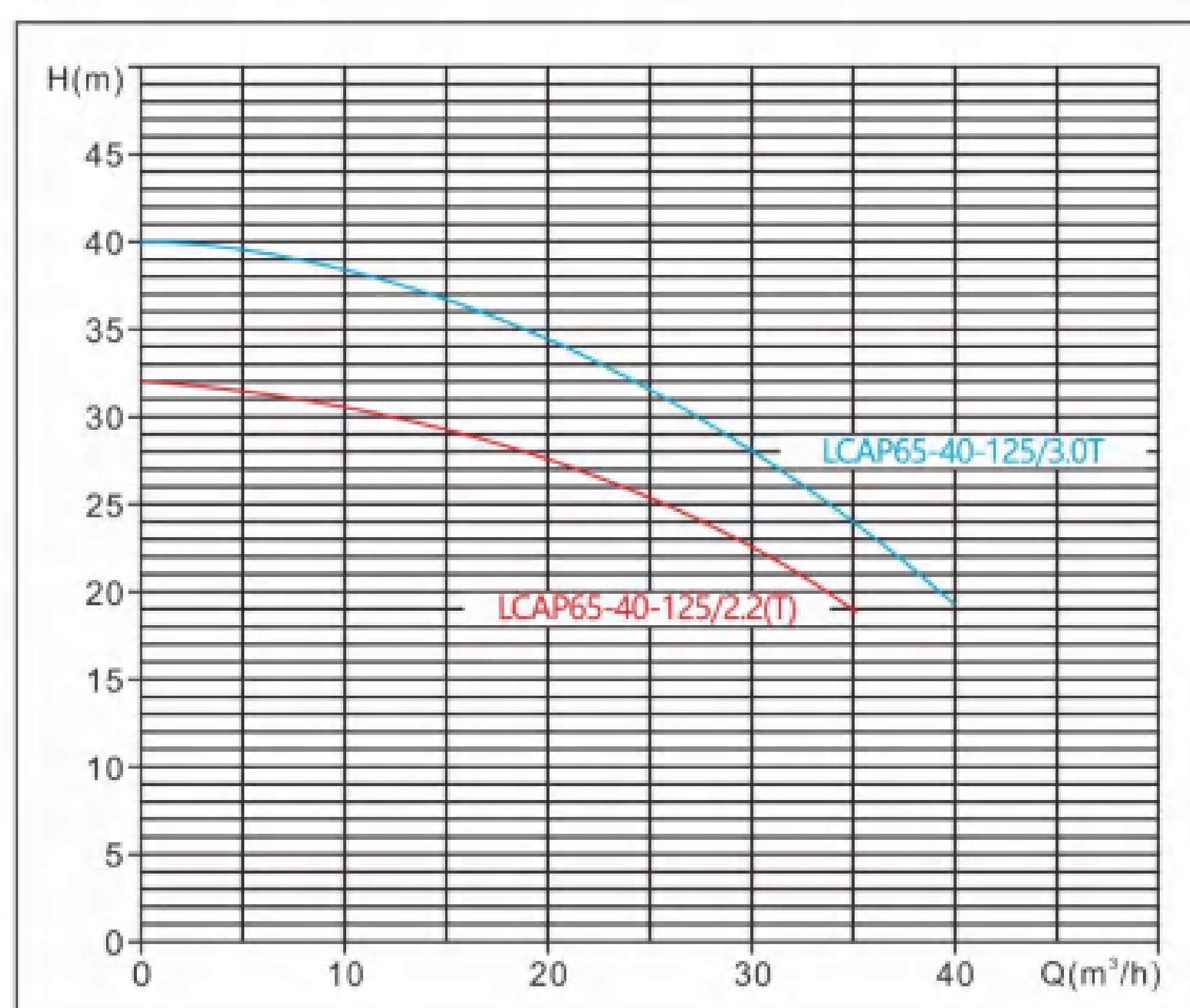
- Pump Body, Filter & Impeller: Constructed from 304 stainless steel for corrosion resistance, high efficiency, and environmental sustainability.
- Quiet Operation: Designed for low-noise performance.
- Mechanical Seal: Highly reliable, wear-resistant seal for enhanced durability and leak-free operation.



RECIRCULATION
PUMP

Model	E	F	H	h1	h2	h3	h4	A	m1	m2	n1	n2	B	C	D	φS	L1	L2	φD1	K1	P1	φD2	K2	P2	m	n	DNA	DNM
WL-LCAP65-40-125/22(T)	310	815	437	112	255	119	240	470	70	115	160	190	435	110	100	12	160	190	175	145	120	150	110	80	4	4	65	40
WL-LCAP65-40-125/3.0T	310	850	437	132	292	119	240	470	70	118	190	240	435	115	100	12	160	190	175	145	120	150	110	80	4	4	65	40
WL-LCAP65-50-125/4.0T	310	888	437	132	292	142	240	470	70	115	190	240	435	115	140	15	190	225	175	145	120	165	125	96	4	4	65	50
WL-LCAP65-50-160/5.5T	310	944	437	160	360	162	240	490	70	118	212	264	455	124	140	15	190	230	175	145	120	165	125	96	4	4	65	50
WL-LCAP80-65-125/7.5T	310	988	437	160	340	162	240	520	90	152	212	250	473	113	140	15	190	230	192	160	130	165	145	115	4	8	80	65
WL-LCAP80-65-125/9.2T	310	1056	437	160	340	179	240	520	90	152	212	250	473	175	140	15	216	255	192	160	130	180	145	115	4	8	80	65
WL-LCAP100-80-160/11T	363	1142	487	180	405	179	280	598	90	176	250	290	551	183	140	15	216	255	210	180	154	200	160	132	8	8	100	80
WL-LCAP100-80-160/15T	363	1184	487	180	405	179	280	598	90	176	250	290	551	183	140	15	216	255	210	180	154	200	160	132	8	8	100	80

QH. Curve of The Pump



Product parameters

Model	Output power P2		Current (A)		Q-Max (m³/h)	H-Max (m)	Packing size (mm)
	kW	HP	220V	380V(T)			
WL-LCAP65-40-125/2.2(T)	2.2	3.0	14	4.9	35	28	890×350×570
WL-LCAP65-40-125/3.0T	3.0	4.0	----	6.3	40	32	890×350×570
WL-LCAP65-50-125/4.0T	4.0	5.5	----	9.6	55	28	930×350×570
WL-LCAP65-50-160/5.5T	5.5	7.5	----	11.1	60	35	1035×360×580
WL-LCAP80-65-125/7.5T	7.5	10	----	14.9	120	34	1035×360×580
WL-LCAP80-65-125/9.2T	9.2	12.5	----	18.3	130	36	1105×360×580
WL-LCAP100-80-160/11T	11	15	----	21.2	192	30	1225×410×630
WL-LCAP100-80-160/15T	15	20	----	28.6	200	38	1225×410×630

QS SERIES LARGE-FLOW WATER PUMP

Ideal for aquaculture, agricultural irrigation, drainage of low-lying flooded areas, sewage treatment projects, and landscape waterfall systems.

Product Materials:

- Alloy copper motor end cover
- Alloy copper impeller
- Stainless steel motor housing
- NSK bearings
- Equipped with 2 anode plates

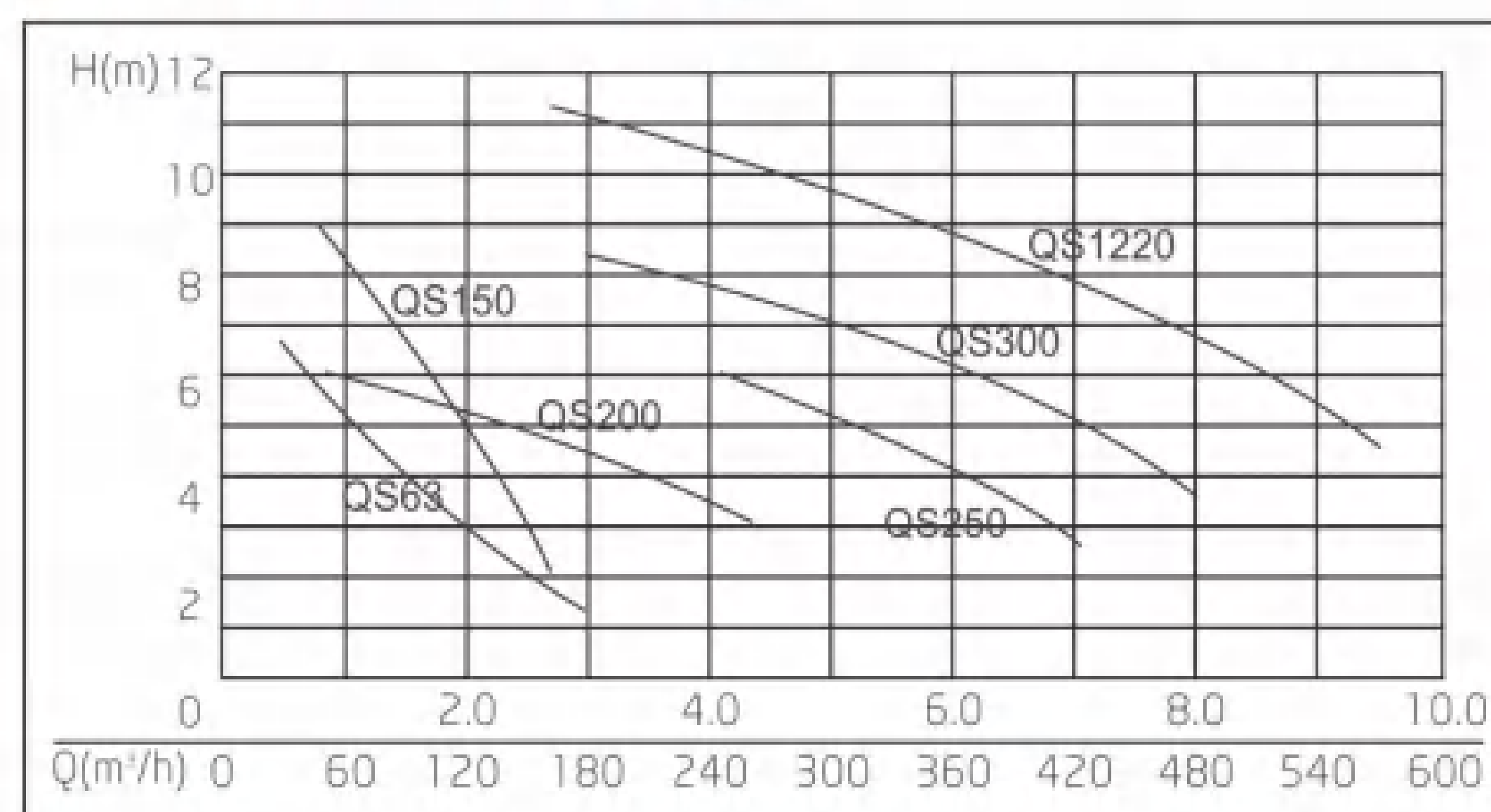
Product Features:

- Robust structure with dry-run motor and dual seals for waterproof reliability.
- IP68 waterproof rating.
- Centrifugal, axial-flow, and mixed-flow options deliver high flow at low head with low energy use.
- Bronze construction provides superior corrosion and abrasion resistance, even in seawater.



RECIRCULATION
PUMP

QH. Curve of The Pump



Product parameters

Model	Power (kW/HP)	Body Size (mm)	Phase (Φ)	Head (m)	Flow		Weight (kg)	Product Size(mm)	
					(m³/min)	(m³/h)		(D)	(H)
WL-QS63	2.2/3	6"(150)	3	3	2	120	78	285	740
WL-QS150	3.7/5	6"(150)	3	5	2	120	87	285	790
WL-QS200	5.5/7.5	8"(200)	3	4	3.5	210	120	340	923
WL-QS250	7.5/10	10"(250)	3	4	5.5	330	160	380	1015
WL-QS300	11/15	12"(300)	3	5	7.0	420	212	430	1072
WL-QS1220	15/20	12"(300)	3	6	8.5	510	215	430	1072

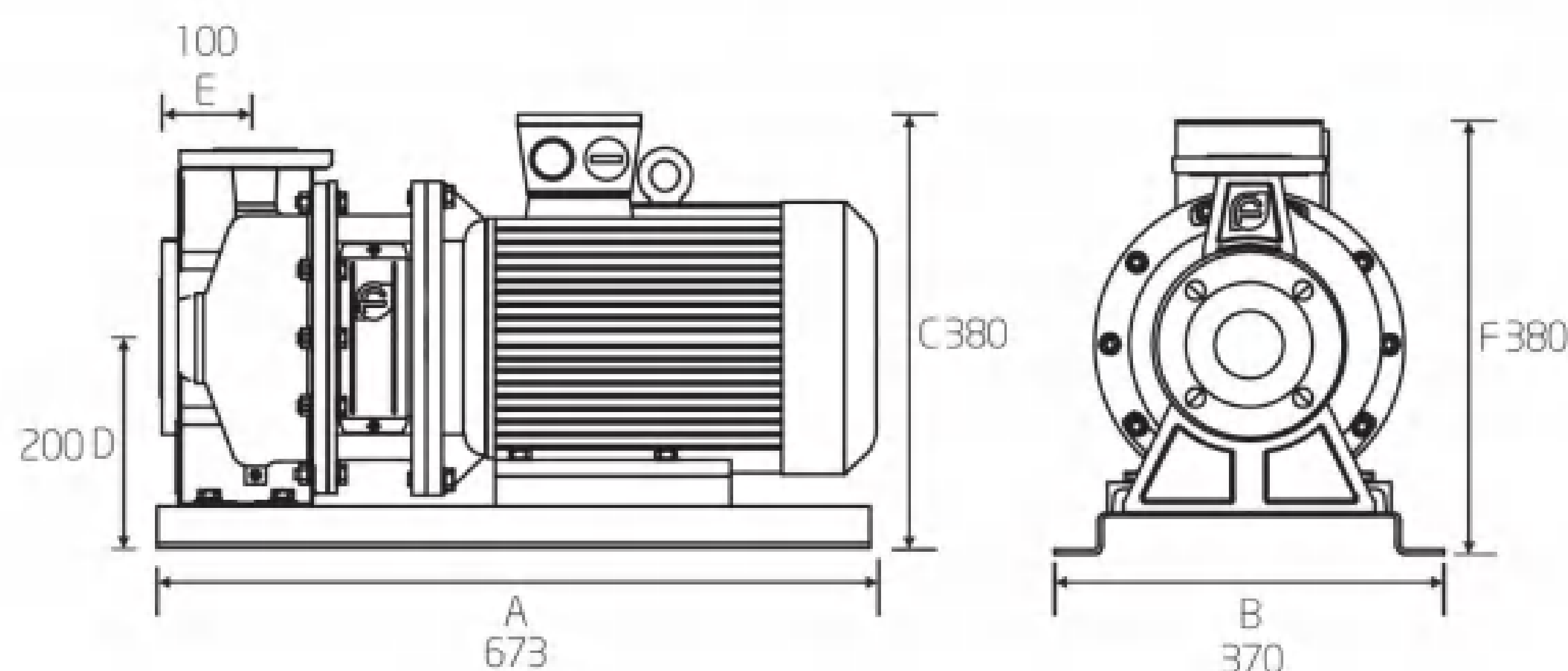
ZS SERIES STAINLESS STEEL CENTRIFUGAL PUMP

The ZS series stainless steel centrifugal pump, made with advanced stamping and welding, is a new-generation pump that replaces traditional corrosion-resistant types. It offers a compact design, high efficiency, energy savings, durability, light corrosion resistance, and low noise.

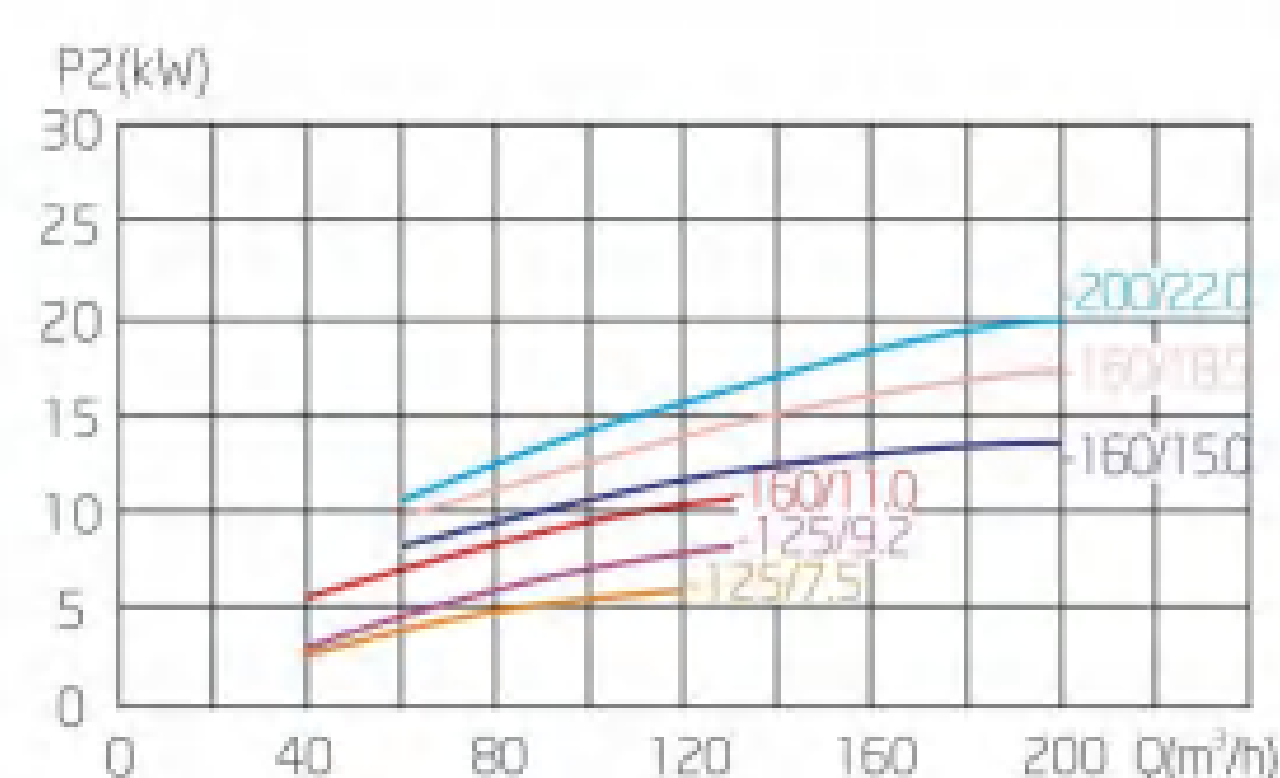
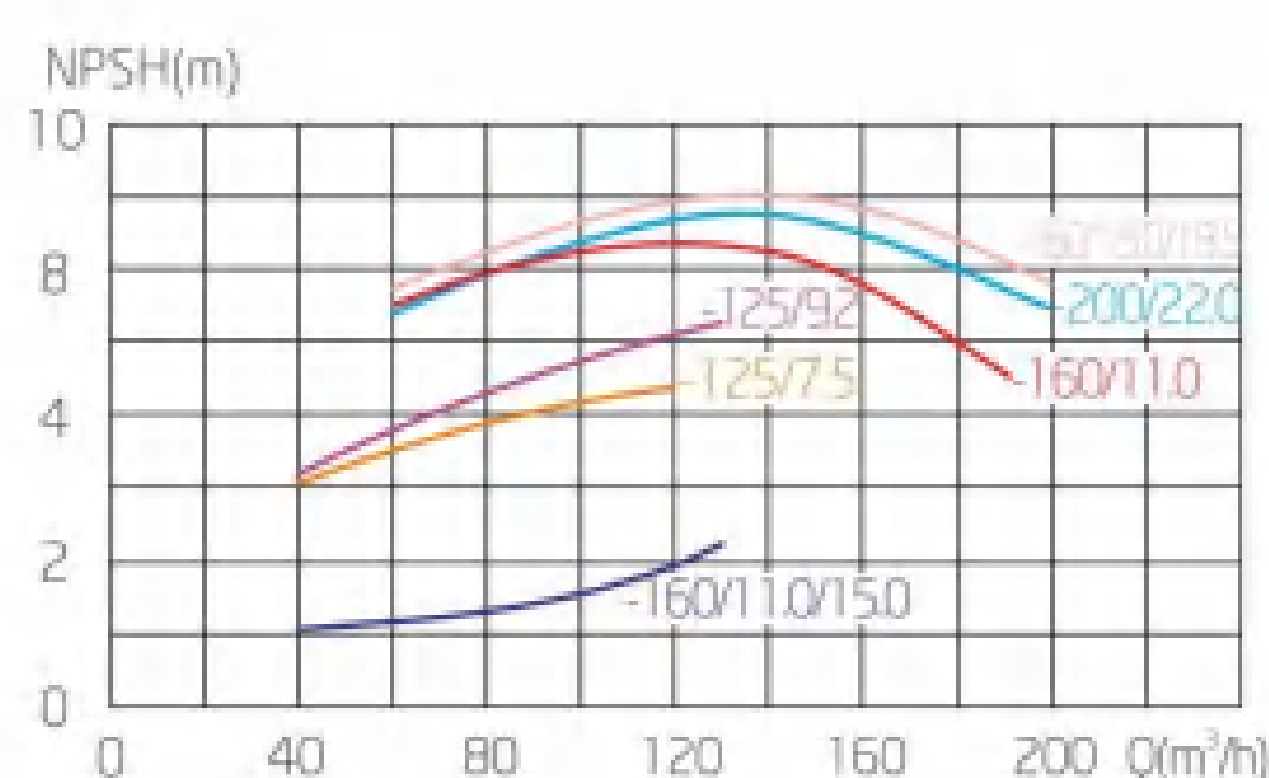
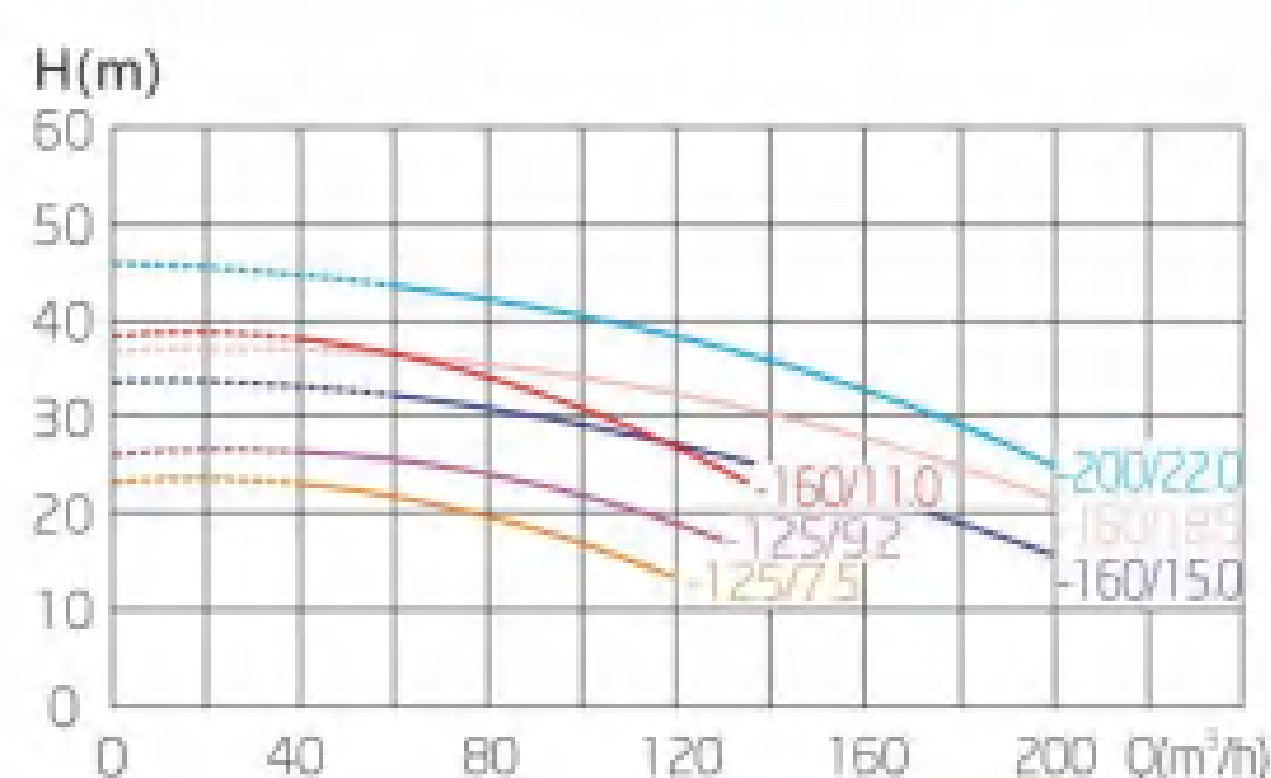


Motor:

- Fully enclosed, fan-cooled, two-pole standard motor
- Protection class: IP55
- Insulation class: F
- Standard voltage: 380V / 3-phase / 50Hz



QH. Curve of The Pump



Product parameters

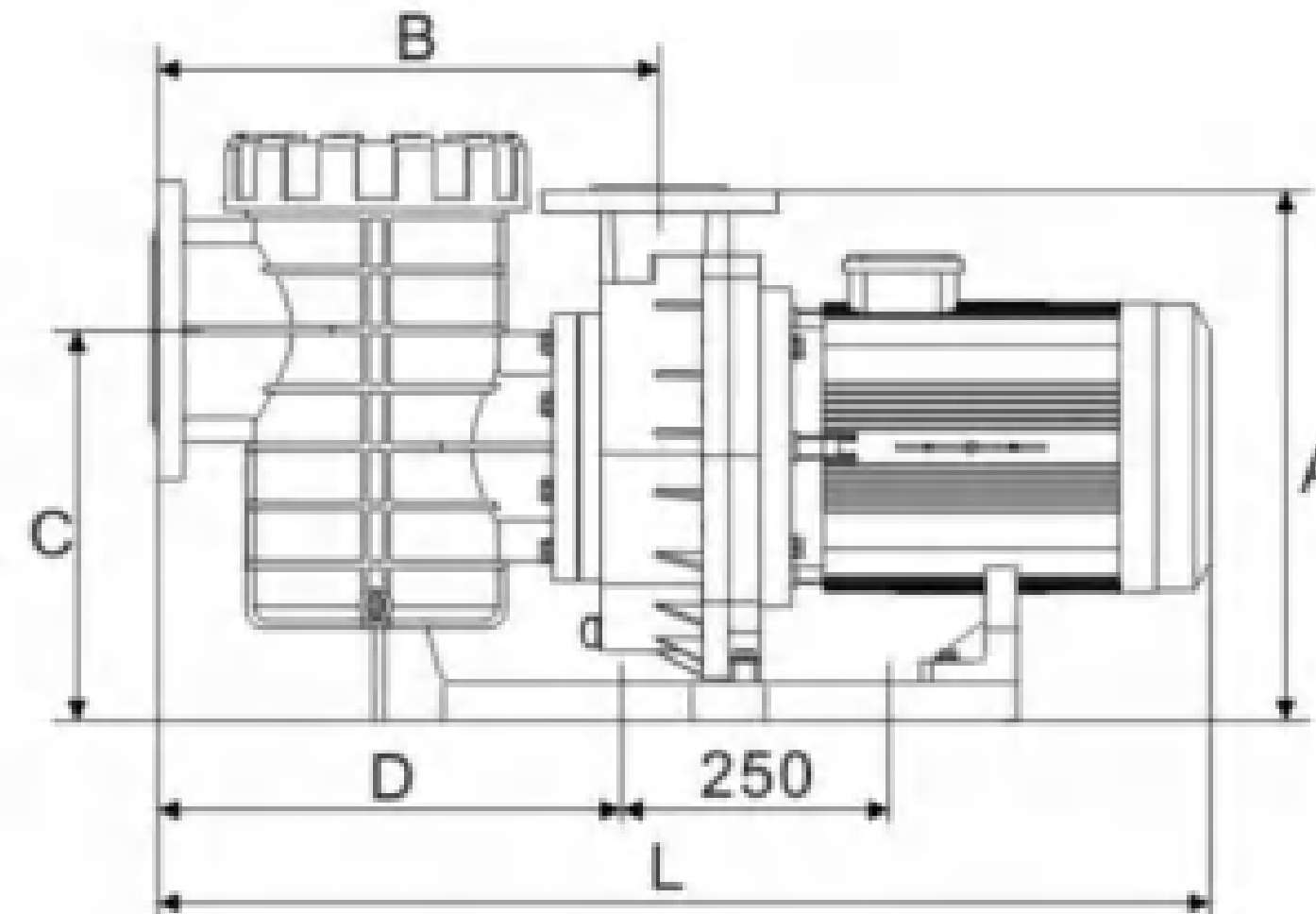
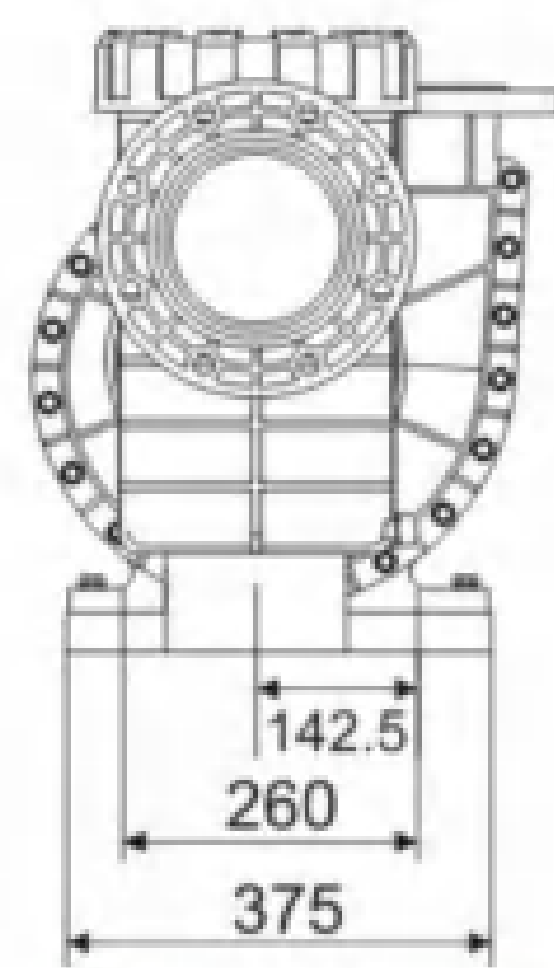
Model	Max. Flow (m³/h)	H-Max m	Rated power supply	Input power kW	HP	Inlet/Outlet	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Weight (kg)
WL-ZS80-65-125/7.5SSC	120	24.5	380/50	7.5	10	DN80/DN65	673	370	380	200	100	380	83
WL-ZS80-65-125/9.2SSC	130	28.1	380/50	9.2	12.5	DN80/DN65	711	370	380	200	100	380	87
WL-ZS80-65-160/11.0SSC	130	33.9	380/50	11	15	DN80/DN65	822	420	400	200	100	400	163
WL-ZS100-80-160/15.0SSC	200	32.3	380/50	15	20	DN100/DN80	851	420	425	200	125	425	173
WL-ZS100-80-160/18.5SSC	200	36.2	380/50	18.5	25	DN100/DN80	896	420	425	200	125	425	185
WL-ZS100-80-200/22.0SSC	200	43.5	380/50	22	30	DN100/DN80	948	455	470	220	125	470	223

KLBP SERIES SEAWATER PUMP

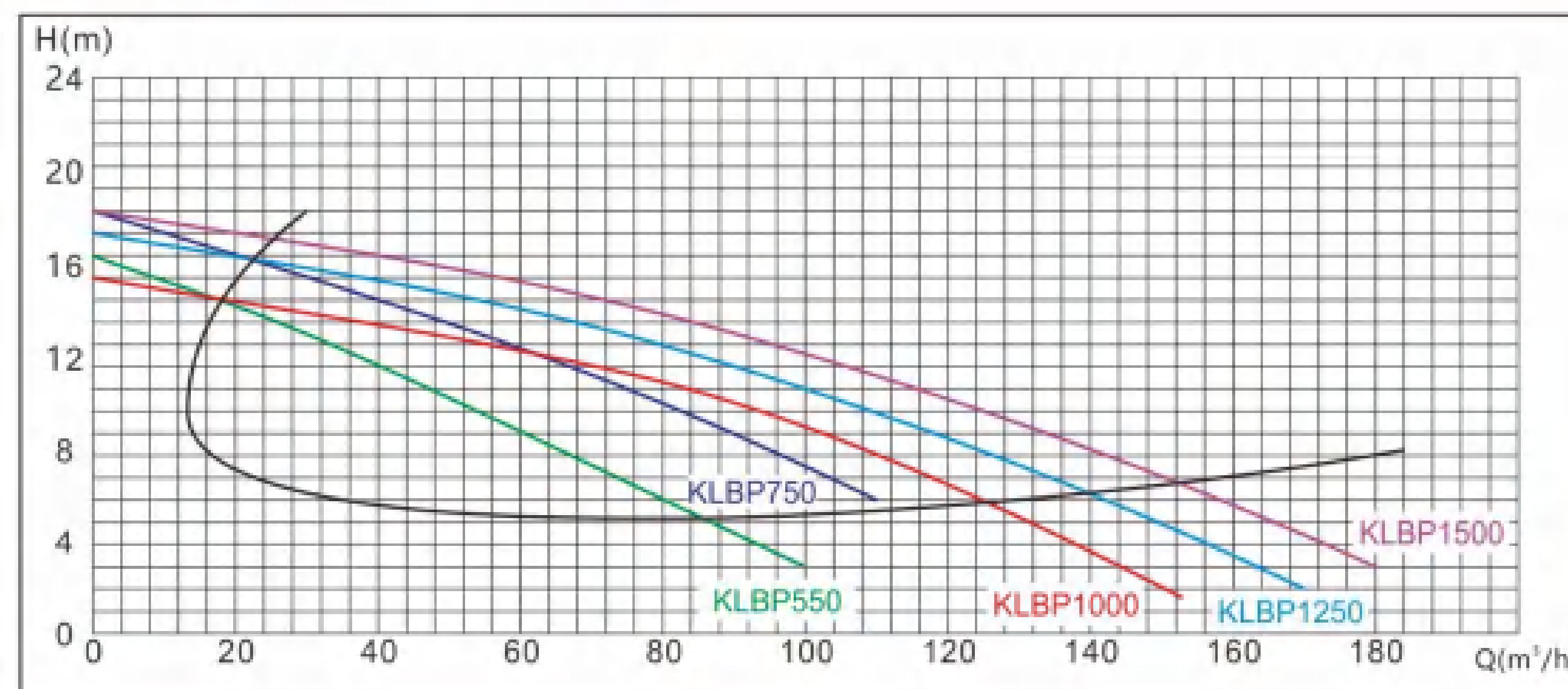
Specially designed for large scale freshwater / seawater aquarium and aquaculture, with strong and powerful motor, large flow design, meets the requirements of various fish and shrimp breeding.

Features:

- Protection: IP55.
- Excellent bearing pressure performance up to 5kg/cm².
- Shaft: Stainless steel 316.
- Mechanical seal: Graphite / Ceramic seal.
- Motor speed: 1450RPM.



QH. Curve of The Pump



Product parameters

Model	Horsepower (HP)	Rated Power (KW)	Voltage (V)	Water inlet size	Water outlet size	L (KW)	A (KW)	B (KW)	C (KW)	D (KW)
WL-KLBP550	5.5	4.0	380	DN125	DN80	810	481	441	365	402
WL-KLBP750	7.5	5.5	380	DN125	DN80	830	481	441	365	402
WL-KLBP1000	10.0	7.5	380	DN150	DN100	930	496	469	365	433
WL-KLBP1250	12.5	9.0	380	DN150	DN100	930	496	469	365	433
WL-KLBP1500	15.0	11.0	380	DN150	DN100	970	496	469	365	433

NISO/NIS/NISF END SUCTION CENTRIFUGAL PUMP

The pumps are suitable for use in clean, thin, non corrosive, non flammable and explosive liquids that do not contain solid particles or fibers.

Applications: water supply systems, heating, air conditioning systems, pressurised water supply, constant pressure water supply, fire sprinkler systems, irrigation, livestock use, industrial refrigeration, heating circulation systems, industrial transport, discharge systems.



Product parameter:

- Max. flow rate: 1200m³/h
- Max. head: 160m
- Max. working pressure: 16bar
- Max. inlet pressure: 6bar
- Max. power: 200kw
- Medium temperature: -15℃~110℃
- Water Inlet and outlet size:
Water inlet: DN50-DN300
Water outlet: DN32-DN250

Features:

- Adopting back pull-out structure, no need to dismantle the pump body and pipeline during maintenance.
- The NISO pump model uses only four types of pump shaft and suspension body components, improving interchangeability of parts.
- The impeller is optimally designed with larger inlet and no vortex, which effectively reduces the pump's cavitation margin and makes the pump run smoothly and low-noise, with smoother performance curves, a wider range of flow rates, and a superior performance.
- G or Q series pumps of NIS are designed in full accordance with the latest GB/T5662 standard, the performance curve is steeper compared to NISO, NIS, NISF type performance curve, and the flow range is in line with the target requirements. Adopting excellent hydraulic model and optimized CFD, to achieve high efficiency and reasonable head distribution.
- NIS, NISF pumps are small, compact and easy to install.
- The material of the impeller, pump body, pump cover and other main parts of NIS - G or Q series pumps is cast iron. Special requirement can be customized.

Motor:

- Totally enclosed, fan-cooled motor, and its main dimensions meet the requirements of GB/T28575 standard.
- 50Hz, 3PH, with 2-pole and 4-pole as standard.

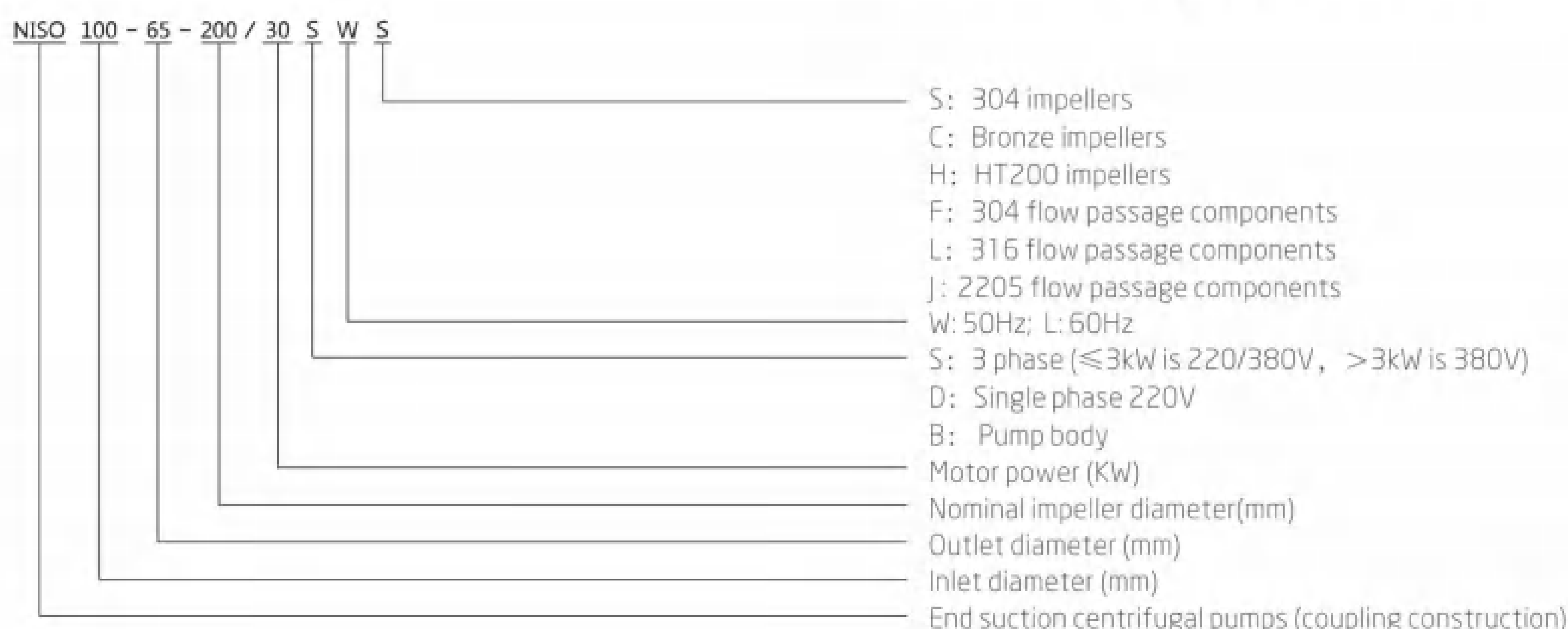
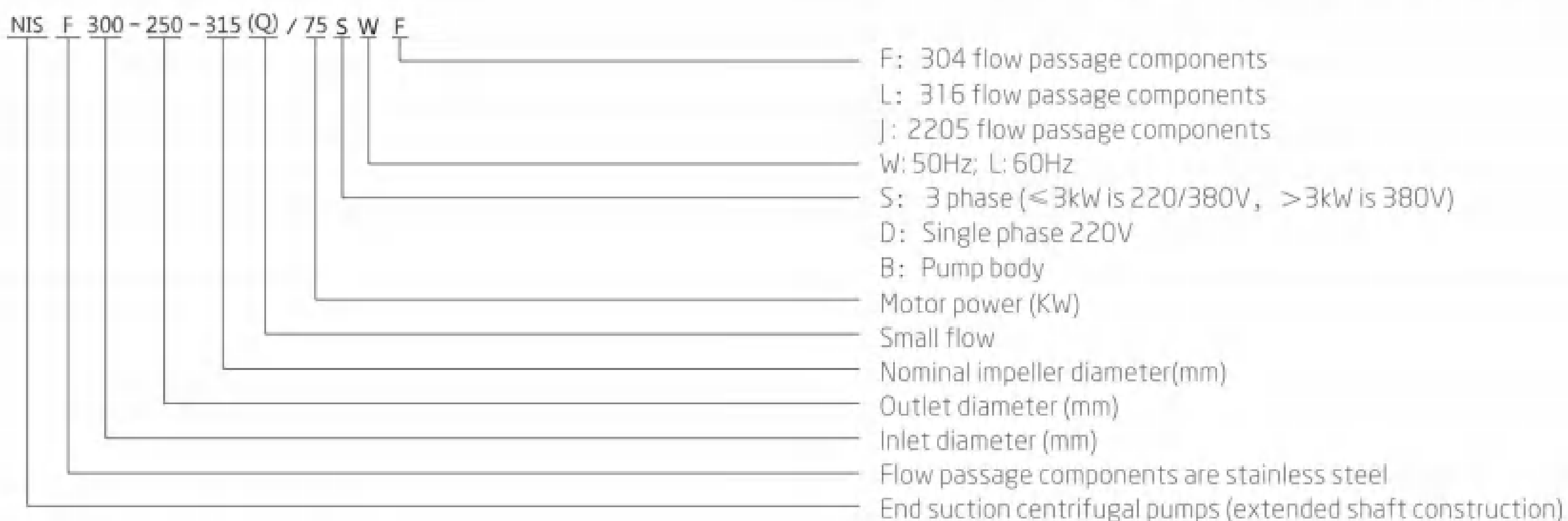
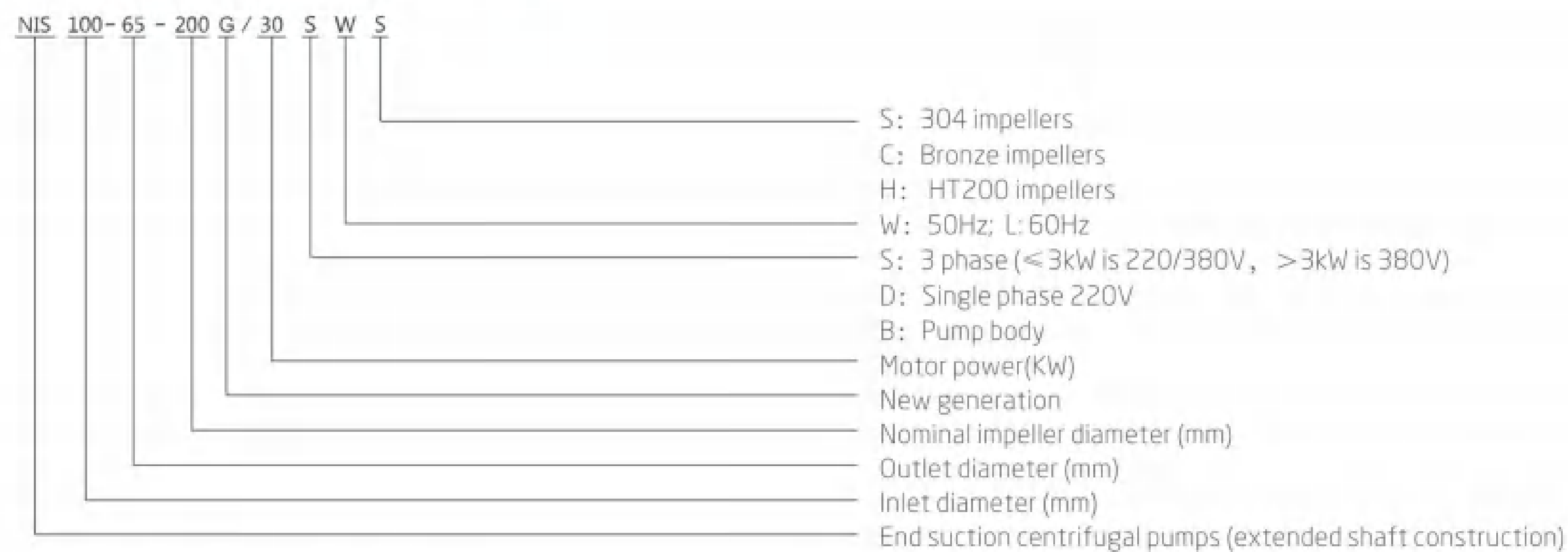
Pump structure:

- The pump is non-self-priming, single stage, single suction horizontal type, with axial inlet and radial outlet. The bottom of the pump body is fixed to the base.
- Standard wear-resistant mechanical seals are used.
- Totally enclosed, fan-cooled IEC standard motors.
- NISO pumps adopt bearing carriers that allow for bearing positioning to avoid axial runout of the bearings, while increasing the rigidity of the rotor components.
- NISO integral pump shaft adopts grease lubricated guide deep groove ball bearings.
- NISO pump is connected to the motor by a semi-elastic coupling.
- The shape and mounting dimensions of NISO pump are in accordance with ISO2858.
- NIS and NISF pumps are constructed with a direct connection type coupling extended shaft.
- The inlet and outlet flanges of cast iron pump body are in accordance with GB/T17241.6 (ISO7005-2) standard, pressure level is PN16. The inlet and outlet flanges of stainless steel pump body are in accordance with GB/T9113 (ISO7005-1) standard, pressure level is PN16.

Operating conditons:

- The pumps are designed for installation in non-corrosive and non-explosive environments with a relative humidity not exceeding 95%.
- Ambient humidity and altitude
- Ambient humidity and the altitude at which it is installed are important factors in the life of the motor, as they affect the life of the bearings and insulation system.
- The installation altitude is the height above sea level of the installation location. If the ambient temperature exceeds the recommended max. ambient temperature or the installation height exceeds the recommended max. altitude, the motor must not be used for full load operation due to low density and poor air cooling. In this case, a motor with a higher output power needs to be selected.

Model Definition & Meaning



Min. inlet pressure

If the pressure in the pump is lower than the vaporisation pressure of the conveyed liquid, cavitation may occur, in order to avoid cavitation, ensure that the inlet side of the pump has - minimum pressure, the maximum suction lift H (m), can be calculated according to the following formula:

$$H = P_b \times 10.2 - NPSH - H_f - H_v - H_s$$

H - Max. suction (m)

P_b - atmospheric pressure (bar)

System pressure (bar) in a closed line can be considered as a closed system NPSH - Net Positive Suction Pressure (m)

Can be read on the NPSH curve in the performance curve corresponding to the maximum flow rate.

H_f - Pipeline loss at the inlet (m), which corresponds to the max. flow rate that the pipeline may generate.

H_v - The magnitude of the value of the vapour pressure (m) of a liquid depends on the temperature of the liquid and the value of the vapour pressure of the liquid.

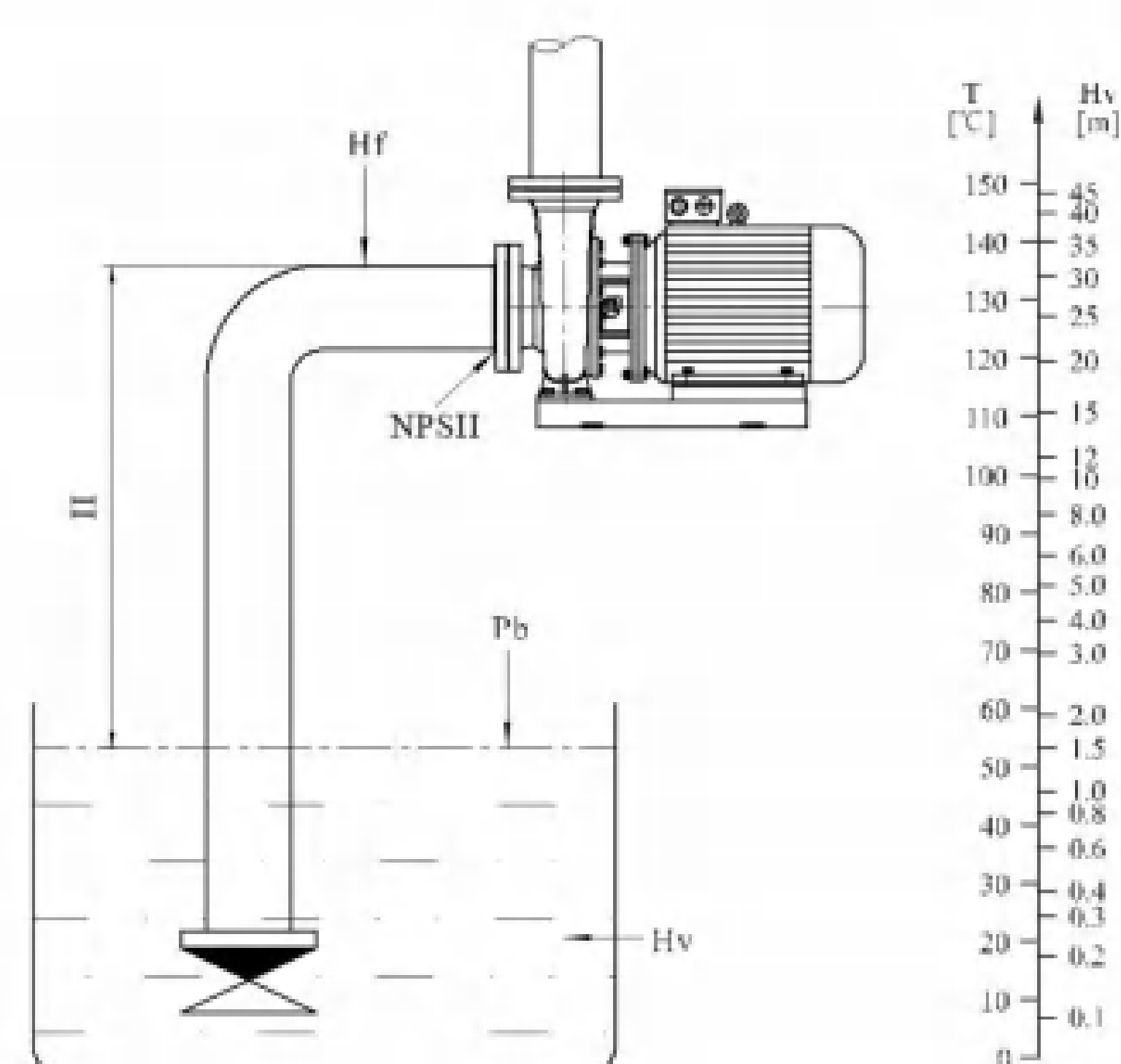
H_s - Safety margin (m), min. 0.5m pressure head.

By calculation, if " H " is positive, it means that the pump can be operated at a maximum suction range of " H "; if " H " is negative, it means that the pump must have a minimum pressure of " H " meters of head at the inlet in order to operate properly.

Note: In general, the above calculations are not performed.

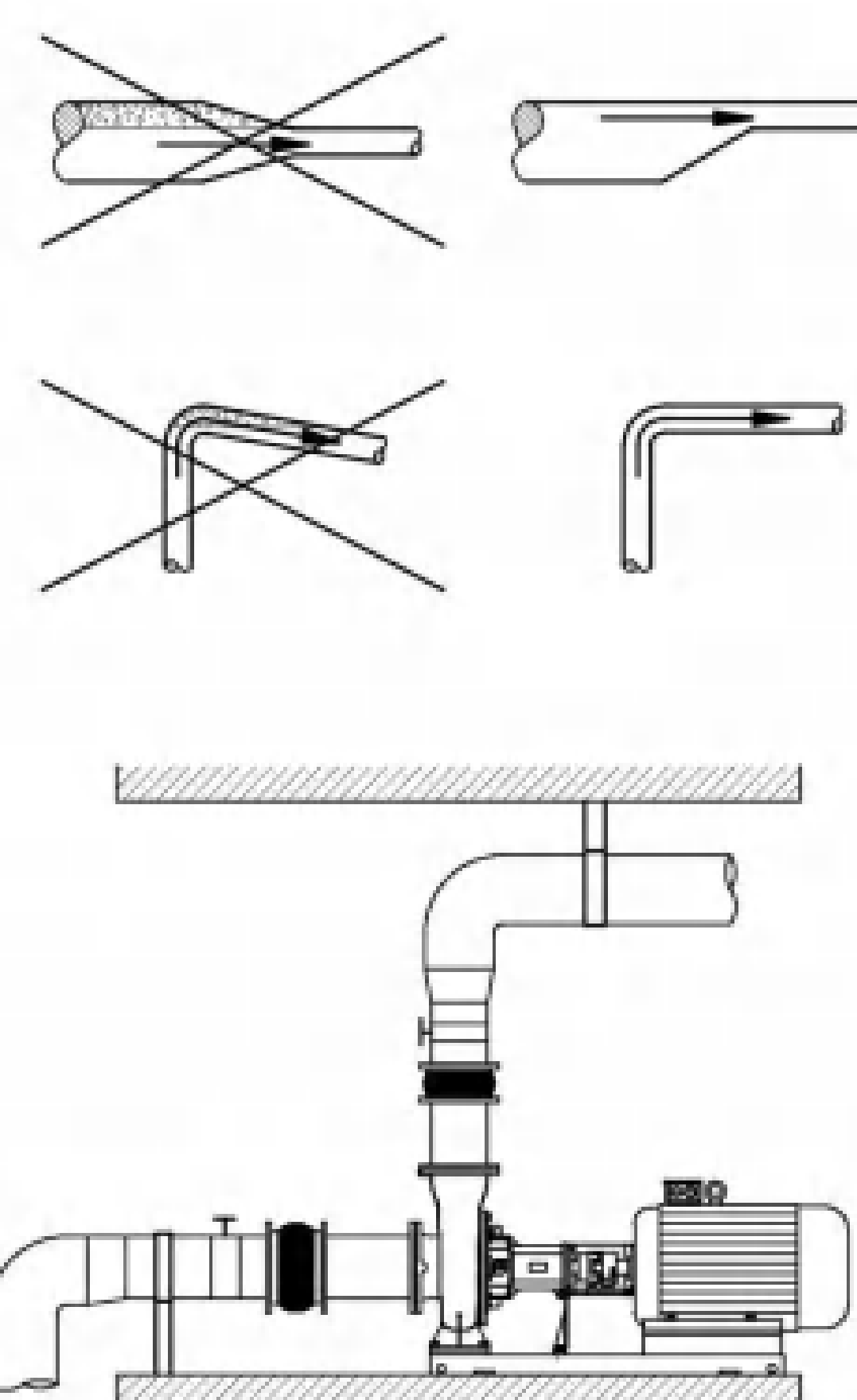
Calculate " H " only if the pump is to be used in the following cases:

1. High liquid temperature.
2. Liquid flow rate exceeds rated value.
3. Large suction inlet or long intake pipeline.
4. The system pressure is too small.
5. Poor inlet conditions.



Pipeline installation conditions

- When installing pipelines, it is necessary to ensure that the pump casing does not bear pipeline stress.
- The suction and discharge pipes must be properly sized, while taking into account the inlet pressure of the pump.
- Install pipework to avoid air resistance, especially on the inlet side of the pump. (see figure on the right)
- Install an isolation valve at each end of the pump so that the system does not have to be drained when the pump needs to be cleaned or serviced.
- Ensure that the pipework is adequately supported as close to the pump as possible (inlet side and outlet side). The butt flanges should be securely fastened to the pump flange without being subjected to tensile stresses, the presence of which can damage the pump.



NISO, NIS, NISF product range 4 pole

Product parameters

No.	Model	Q (m ³ /h)	H (m)	Motor (kW)	n (r/min)
1	50-32-160/0.55	6.3	85	0.55	1450
2	50-32-160/0.75	6.3	11	0.75	1450
3	50-32-200/1.1	6.3	14	1.1	1450
4	50-32-200/1.5	6.3	18	1.5	1450
5	65-40-200/1.1	12.5	12	1.1	1450
6	65-40-200/1.5	12.5	15	1.5	1450
7	65-40-200/2.2	12.5	17.5	2.2	1450
8	65-40-250/3	12.5	25	3	1450
9	65-40-315/4	12.5	34	4	1450
10	65-40-315/5.5	12.5	40	5.5	1450
11	65-50-160/0.55	25	7	0.55	1450
12	65-50-160/0.75	25	9	0.75	1450
13	65-50-160/1.1	25	10.5	1.1	1450
14	80-50-200/1.5	25	11	1.5	1450
15	80-50-200/2.2	25	15	2.2	1450
16	80-50-200/3	25	17.5	3	1450
17	80-50-250/4	25	21	4	1450
18	80-50-250/5.5	25	25	5.5	1450
19	80-50-315/5.5	25	30	5.5	1450
20	80-50-315/7.5	25	37	7.5	1450
21	80-65-160/0.75	50	6	0.75	1450
22	80-65-160/1.1	50	8	1.1	1450
23	80-65-160/1.5	50	10.5	1.5	1450
24	100-65-200/3	50	11.5	3	1450
25	100-65-200/4	50	14	4	1450
26	100-65-200/5.5	50	16	5.5	1450
27	100-65-250/5.5	50	20	5.5	1450
28	100-65-250/7.5	50	25	7.5	1450
29	100-65-315/11	50	32	11	1480

NISO, NIS, NISF product range

4 pole

Product parameters

No.	Model	Q (m ³ /h)	H (m)	Motor (kW)	n (r/min)
30	100-65-315/15	50	40	15	1480
31	100-80-160/1.5	50	6.5	1.5	1450
32	100-80-160/2.2	50	9	2.2	1450
33	100-80-160/3	50	10.5	3	1450
34	125-80-400/15	50	39	15	1480
35	125-80-400/18.5	50	45	18.5	1480
36	125-80-400/22	50	50	22	1480
37	125-80-400/30	50	60	30	1480
38	125-80-400/37	50	67	37	1480
39	125-100-200/4	100	9	4	1450
40	125-100-200/5.5	100	11.5	5.5	1450
41	125-100-200/7.5	100	14	7.5	1450
42	125-100-200/11	100	16.5	11	1480
43	125-100-250/15	100	25	15	1480
44	125-100-315/11	100	23	11	1480
45	125-100-315/18.5	100	32	18.5	1480
46	125-100-315/22	100	36	22	1480
47	125-100-315/30	100	40	30	1480
48	125-100-400/30	100	50	30	1480
49	125-100-400/37	100	58	37	1480
50	125-100-400/45	100	65	45	1480
51	150-125-250/11	200	12.5	11	1480
52	150-125-250/15	200	16	15	1480
53	150-125-250/18.5	200	20	18.5	1480
54	150-125-250/22	200	24	22	1480
55	150-125-315/30	200	32	30	1480
56	150-125-315/37	200	39	37	1480
57	150-125-400/45	200	50	45	1480
58	150-125-400/55	200	57	55	1480

NISO, NIS, NISF product range 4 pole

Product parameters

No.	Model	Q (m ³ /h)	H (m)	Motor (kW)	n (r/min)
59	150-125-400/75	200	68	75	1480
60	200-150-315/37	400	23	7	1480
61	200-150-315/45	400	27	45	1480
62	200-150-315/55	400/400	32	55	1480
63	200-150-315/75	400	38	75	1480
64	200-150-400/75	400	43	75	1480
65	200-150-400/90	400	50	90	1480
66	200-150-400/110	400	62	110	1480
67	250-200-315/37	500	20	37	1480
68	250-200-315/45	500	23	45	1480
69	250-200-315/55	630	24	55	1480
70	250-200-315/75	630	32	75	1480
71	250-200-400/90	630	37	90	1480
72	250-200-400/110	630	44	110	1480
73	250-200-400/132	630	53	132	1480
74	250-200-400/160	630	60	160	1480
75	300-250-315(Q)/75	800	26	75	1480
76	300-250-315(Q)/90	800	32	90	1480
77	300-250-315(Q)/110	800	35	110	1480
78	300-250-400(Q)/110	800	38	110	1480
79	300-250-400(Q)/132	800	45	132	1480
80	300-250-400(Q)/160	800	53	160	1480
81	300-250-400(Q)/200	800	63	200	1480
82	300-250-315/75	1000	20	75	1480
83	300-250-315/90	1000	25	90	1480
84	300-250-315/110	1000	31	110	1480
85	300-250-400/132	1000	37	132	1480
86	300-250-400/160	1000	45	160	1480
87	300-250-400/200	1000	50	200	1480

AIR BLOWER

Features:

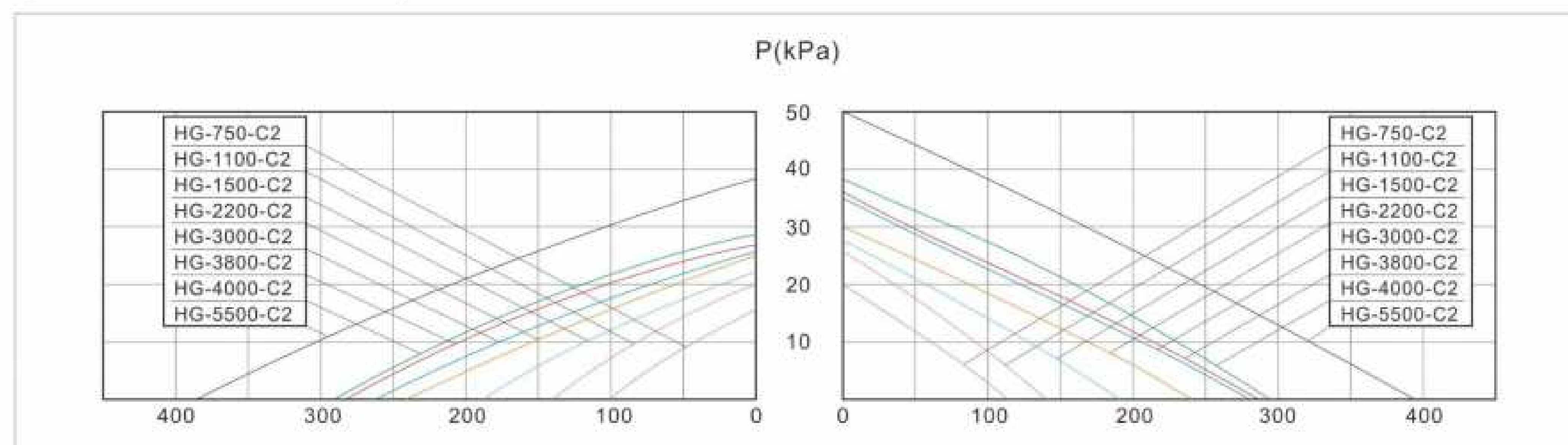
- Centrifugal vanes produce high pressure, great outflow, and low noise.
- A high-quality engine ensures a safe and steady effect.
- Oil free and pure compressed air.
- The machine has a wide range of power and can run a long service life.
- 50Hz or 60Hz are available on request.



Application:

- Fish Farm
- Aquaculture
- Swimming Pool/ Spa Pool
- Cooling for Molding
- Ultrasonic Washing and Cleaning Equipment
- Central Vacuum Cleaning System
- Printing Machine
- Sewage Treatment
- Water Treatment
- Agriculture Field

QH.Curve of The Pump



Model	Voltage (V)	Power (W)	Max.Pressure (Kpa)	Vacuum (Kpa)	Output (m³/h)	Pressure (KPa)	Weight (KGS)	Dimensions L*W*H(mm)
HG-750-C2	220	750	20	-16	110	<12	14	306×288×315
HG-1100-C2	220	1100	26	-20	135	<18	19	329×320×390
HG-1500-C2	380	1500	28	-22	180	<18	25	338×328×357
HG-2200-C2	380	2200	30	-24	240	<20	28	392×362×372
HG-3000-C2	380	3000	35	-25	260	<25	36	425×384×400
HG-3800-C2	380	3800	36	-26	280	<26	38	410×392×404
HG-4000-C2	380	4000	38	-28	280	<28	45	415×392×404
HG-5500-C2	380	5500	50	-35	380	<28	58	486×418×453

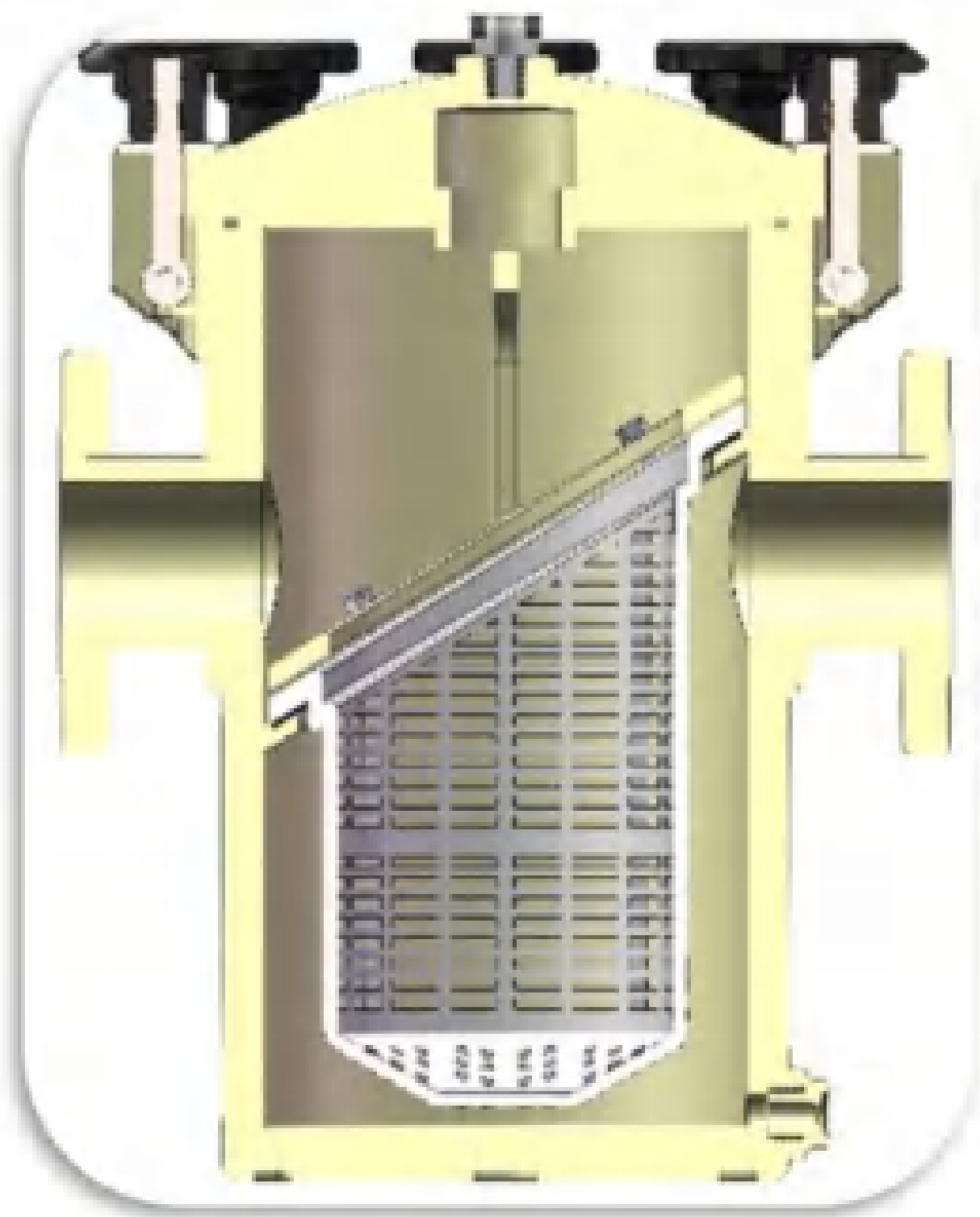
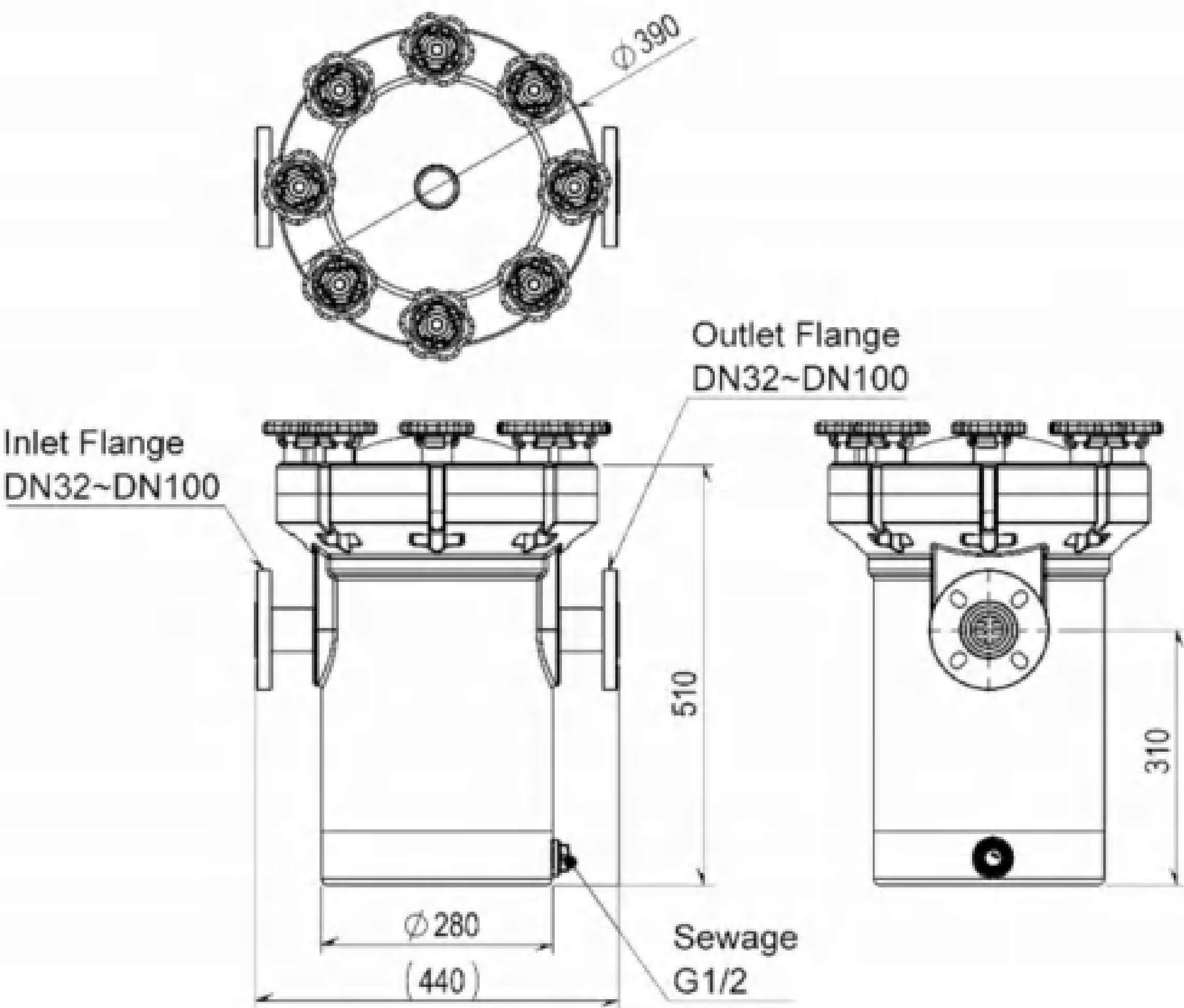
BASKET STRAINER



SBS SERIES BASKET FILTER

Features:

- One-piece molded, no welds, zero leaks.
- 360° sealing, high-precision filtration.
- Made of imported PPH/PVDF/HDPE, heat and corrosion resistant .
- Multiple sizes available, fits various industrial filtration systems.



Product parameters

Model	Material	Inlet & Outlet	Inlet & Outlet Size	Operating temperature(°C)	Max Pressure(Mpa)
WL-SBS-D280-DN40	PPH	Horizontion	DN40	90	0.6
WL-SBS-D280-DN50	PPH	Horizontion	DN50	90	0.6
WL-SBS-D280-DN65	PPH	Horizontion	DN65	90	0.6
WL-SBS-D280-DN80	PPH	Horizontion	DN80	90	0.6
WL-SBS-D280-DN100	PPH	Horizontion	DN100	90	0.6
WL-SBS-4S1-DN125	PPH	Horizontion	DN125	90	0.6
WL-SBS-4S2-DN150	PPH	Horizontion	DN150	90	0.6
WL-SBS-4S3-DN200	PPH	Horizontion	DN200	90	0.6
WL-SBS-5S1-DN250	PPH	Horizontion	DN250	90	0.6
WL-SBS-5S2-DN300	PPH	Horizontion	DN300	90	0.6
WL-SBS-5S3-DN350	PPH	Horizontion	DN350	90	0.6
WL-SBS-6S1-DN400	PPH	Horizontion	DN400	90	0.6
WL-SBS-6S2-DN450	PPH	Horizontion	DN450	90	0.6

SFPF SERIES STAINLESS STEEL STRAINER

Basket strainer is used as pre-filter to remove hair, fiber and large suspended solids in water, to protect the pump and ensure the normal operation of the whole water treatment system.

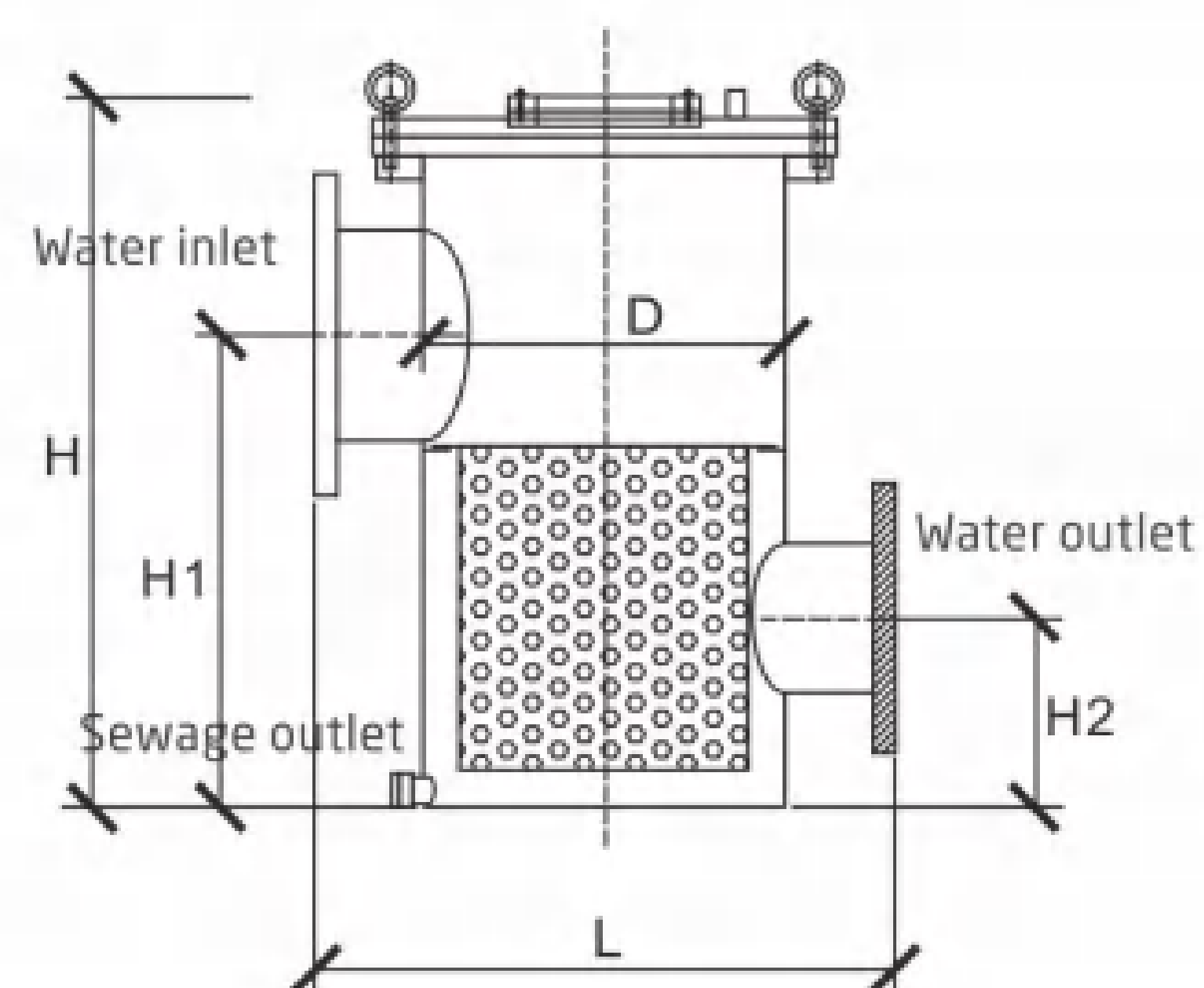
Operating principle:

The strainer is equipped with a built in filter basket. When the raw water passes through, the solid impurity particles are blocked in the strainer and the clean water flows out. The bottom provided with a sewage outlet, the debris, hair, fibers and other big impurities could be drained from here, and the filter basket can be removed from inside for cleaning.



Features:

- Quick open design.
- Clear lid with easy access allows for simple visibility of debris.
- Stainless steel filter basket, easy for cleaning.
- Total area of filter tube hole: more than 2.5 times of cross-section area of connecting pipe.



BASKET STRAINER

Product parameters

Model	Diameter D(mm)	Height H(mm)	Height of water inlet H1(mm)	Height of water outlet H2(mm)	Water inlet size DN(mm)	Water outlet size DN(mm)	Width L(mm)
WL-SFPF219	219	550	350	150	80	50-80	419
WL-SFPF273	273	600	400	200	100	65-100	473
WL-SFPF273	273	600	400	200	125	65-125	473
WL-SFPF273	273	600	400	200	150	80-150	473
WL-SFPF300	300	700	450	200	125	80-125	500
WL-SFPF300	300	700	450	200	150	100-150	500
WL-SFPF350	350	750	530	230	150	100-150	550
WL-SFPF350	350	750	530	230	200	150-200	550
WL-SFPF400	400	750	550	250	200	150-200	600
WL-SFPF400	400	750	550	250	250	150-250	600
WL-SFPF450	450	800	550	250	250	200-250	650
WL-SFPF500	500	900	600	300	300	250-300	700
WL-SFPF600	600	1100	750	350	400	300-400	800

SSPE SERIES STAINLESS STEEL STRAINER

Basket strainer is used as pre-filter to remove hair, fiber and large suspended solids in water, to protect the pump and ensure the normal operation of the whole water treatment system.

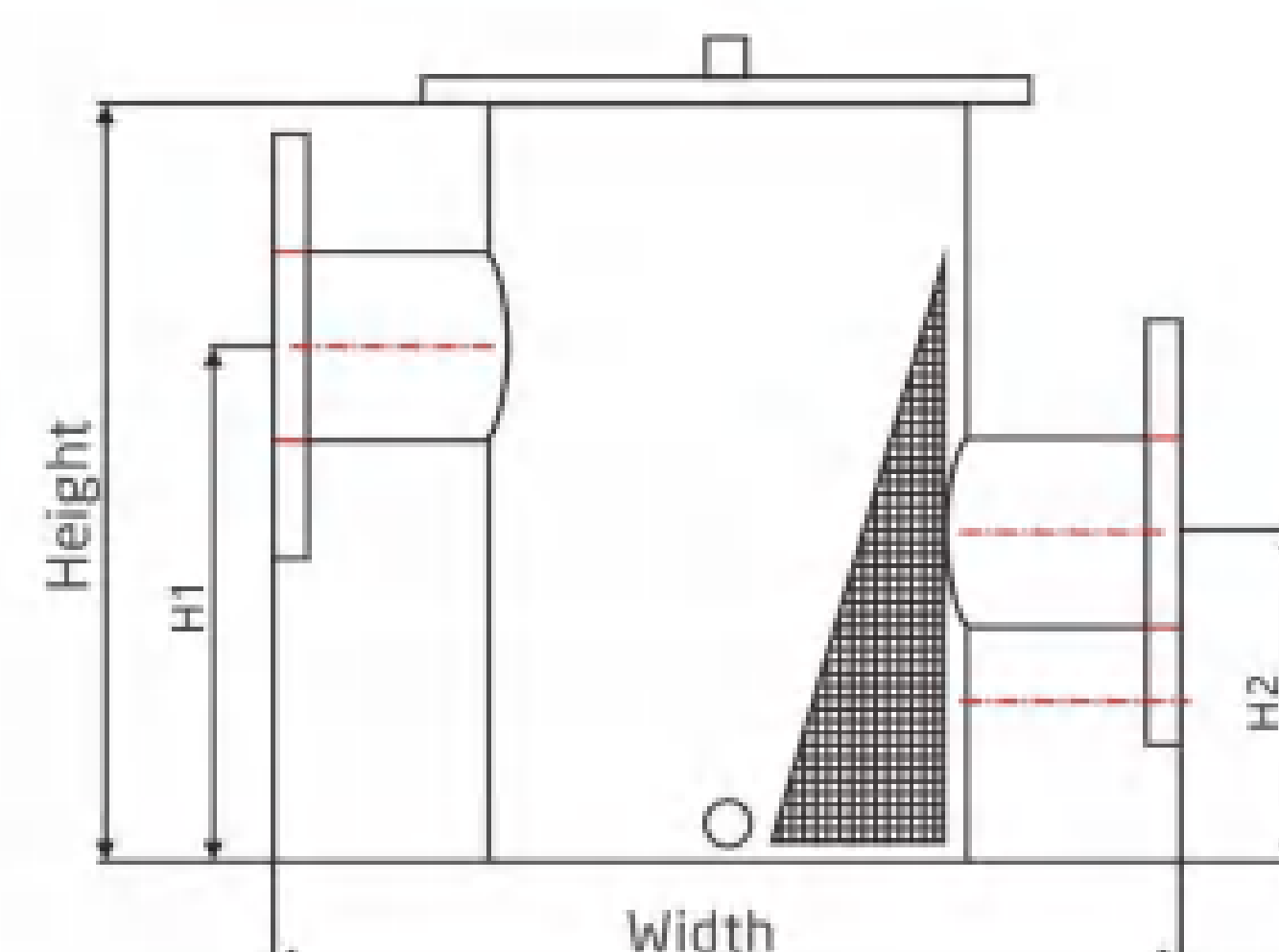
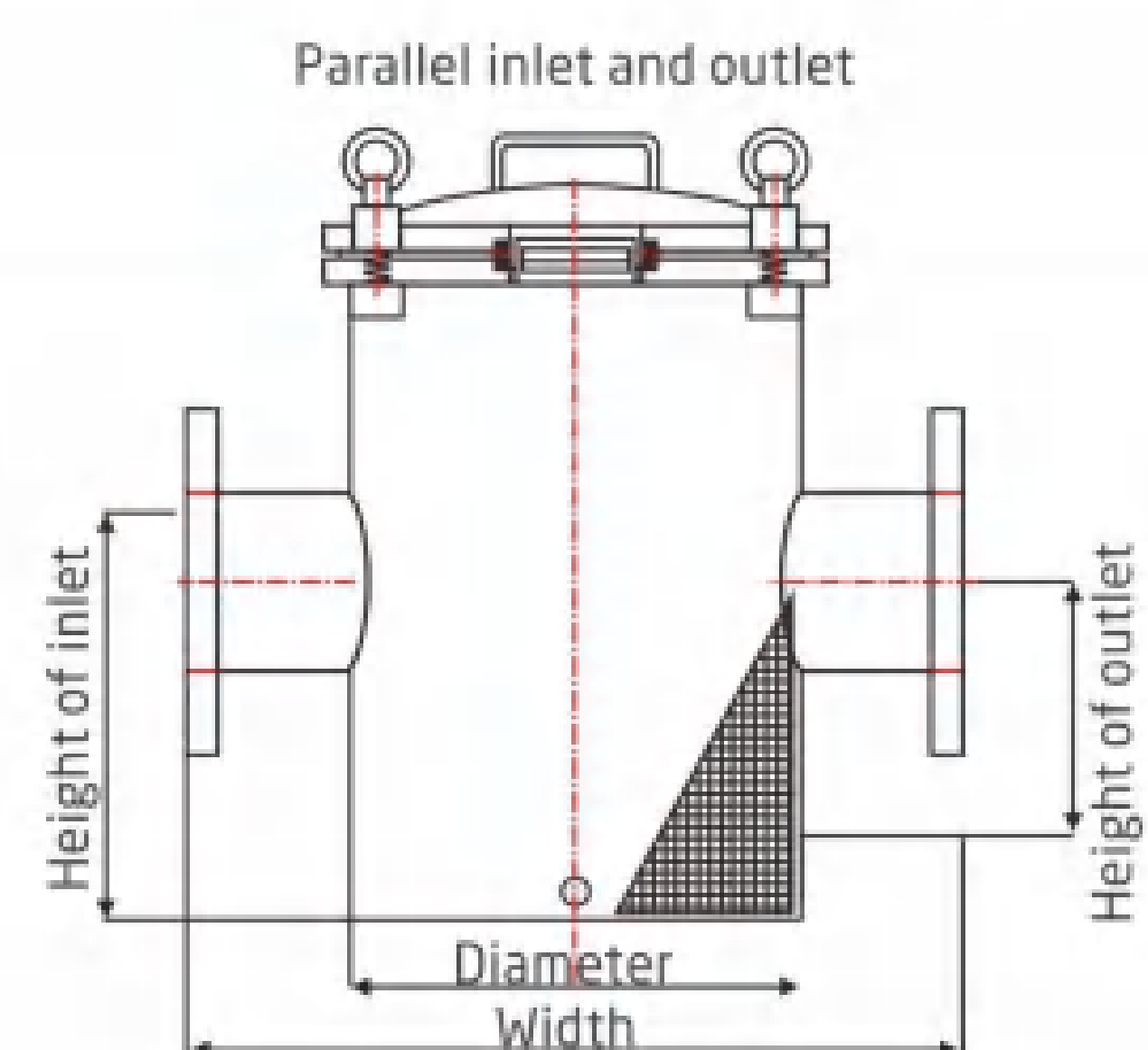
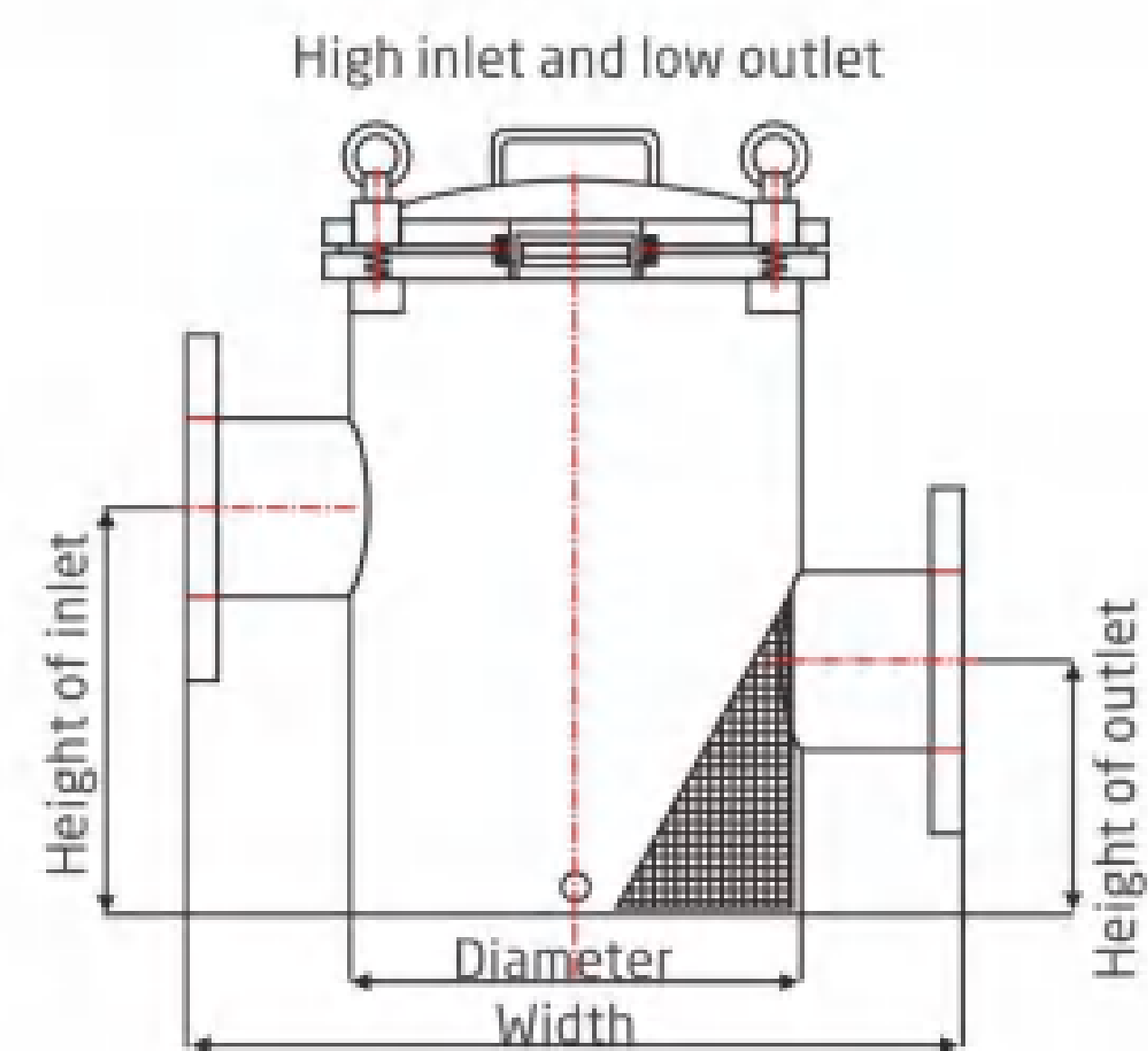
Operating principle:

The strainer is equipped with a built in filter basket. When the raw water passes through, the solid impurity particles are blocked in the strainer and the clean water flows out. The bottom provided with a sewage outlet, the debris, hair, fibers and other big impurities could be drained from here, and the filter basket can be removed from inside for cleaning.



Features:

- Stainless steel body and filter basket, high strength and corrosion resistance, suitable for seawater environment.
- Quick open design, convenient for cleaning and maintenance.
- Standard flange connection for easy installation.
- Clear lid with easy access allows for simple visibility of debris.
- Customizable dimensions and features.





High inlet and low outlet type

Model	Diameter D(mm)	Height H(mm)	Height of water inlet H1(mm)	Height of water outlet H2(mm)	Water inlet size DN(mm)	Water outlet size DN(mm)	Width L(mm)
WL-SSGF159	159	250	165	85	DN32	DN32	359
WL-SSGF159	159	250	165	85	DN40	DN40	359
WL-SSGF159	159	250	165	85	DN50	DN50	359
WL-SSGF219	219	350	230	120	DN65	DN65	419
WL-SSGF219	219	350	230	120	DN80	DN80	419
WL-SSGF273	273	400	265	135	DN100	DN100	473
WL-SSGF273	273	400	265	135	DN125	DN125	473
WL-SSGF273	273	400	265	135	DN150	DN150	473
WL-SSGF325	325	490	330	160	DN200	DN200	525
WL-SSGF400	400	520	340	160	DN250	DN250	600

BASKET STRAINER

Parallel inlet and outlet type

Model	Diameter D(mm)	Height H(mm)	Height of water inlet H1(mm)	Height of water outlet H2(mm)	Water inlet size DN(mm)	Water outlet size DN(mm)	Width L(mm)
WL-SSPF159	159	250	125	125	DN32	DN32	359
WL-SSPF159	159	250	125	125	DN40	DN40	359
WL-SSPF159	159	250	125	125	DN50	DN50	359
WL-SSPF219	219	350	175	175	DN65	DN65	419
WL-SSPF219	219	350	175	175	DN80	DN80	419
WL-SSPF273	273	400	200	200	DN100	DN100	473
WL-SSPF273	273	400	200	200	DN125	DN125	473
WL-SSPF273	273	400	200	200	DN150	DN150	473
WL-SSPF325	325	490	246	246	DN200	DN200	525
WL-SSPF400	400	520	260	260	DN250	DN250	600

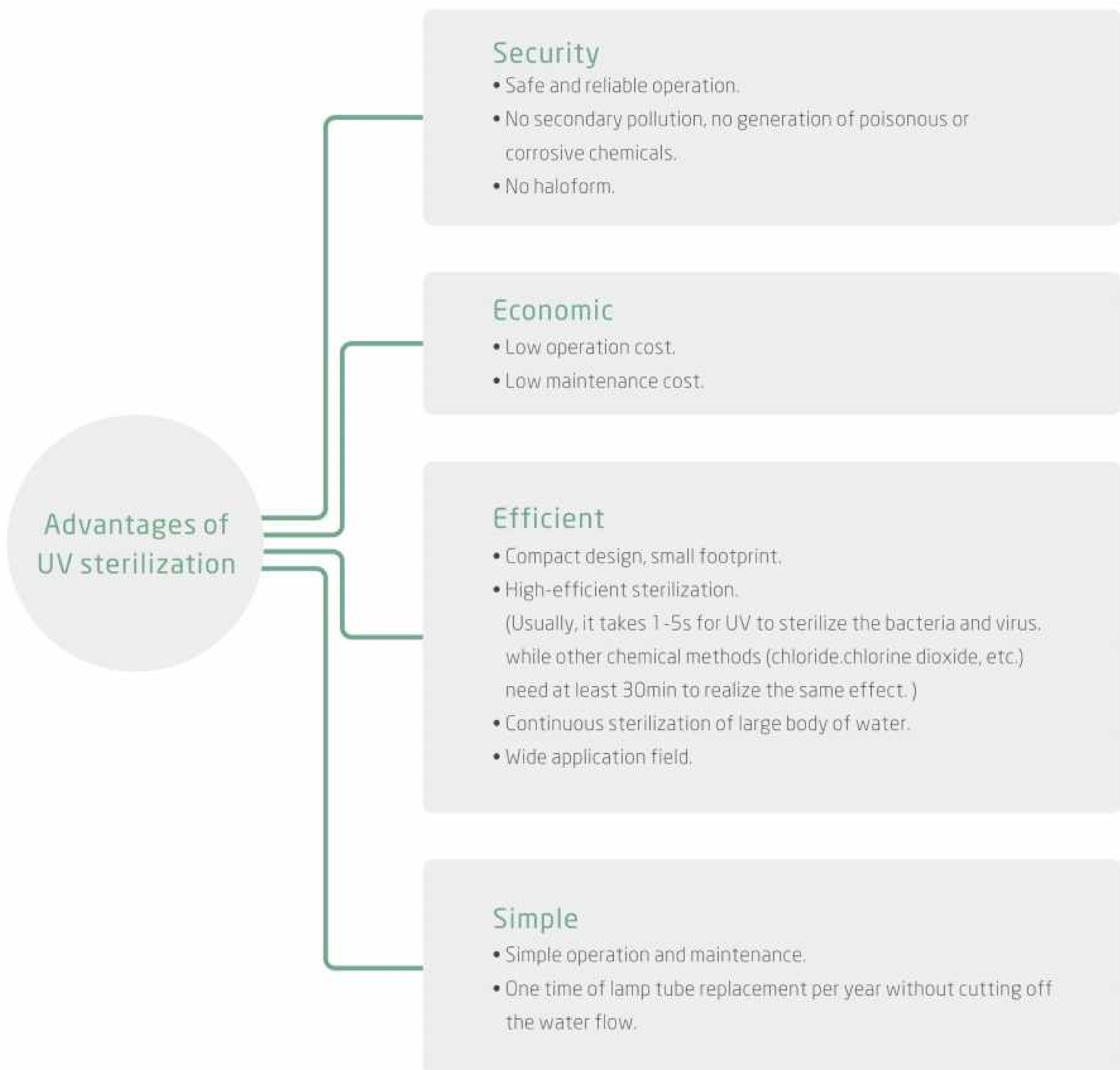
UV DISINFECTION

Utilize the ultraviolet light between 200-300nm to penetrate the cell membrane and nucleus of various viruses, bacteria and other pathogenic microorganisms in water, destroying the DNA structure of the microorganisms, and cause them to lose their replication ability or activity and die.

UV STERILIZER

UV sterilizer realizes the purpose of water sterilization by radiating microorganisms. After the protein, RNA and DNA of microorganisms absorbing the energy of UV, the UV (254nm) can polymerize the base pair of DHA of microorganisms to prevent protein synthesis and reproduction of microorganisms, as a result, cells will die and the sterilization purpose is realized. During the sterilization process, UV will not produce any by-products.

ADVANTAGES OF UV STERILIZATION:



Classification of UV lamp

Low-pressure UV lamp

Internal air pressure < 103Pa, narrow band output, power of a lamp tube < 500W.

Requirement of water temperature: $\leq 35^{\circ}\text{C}$

Penetrate and damage DNA of bacteria, virus and various microorganisms to realize an ideal sterilization effect.

Life-span of lamp tube: 9000-13000 hours

Costs are low. It is widely applied to air purification, water purification and sewage sterilization

Medium pressure UV lamp

Medium pressure UV lamp Internal air pressure 104~106Pa, multispectral continuous UV output, maximum power of a lamp tube 7000W.

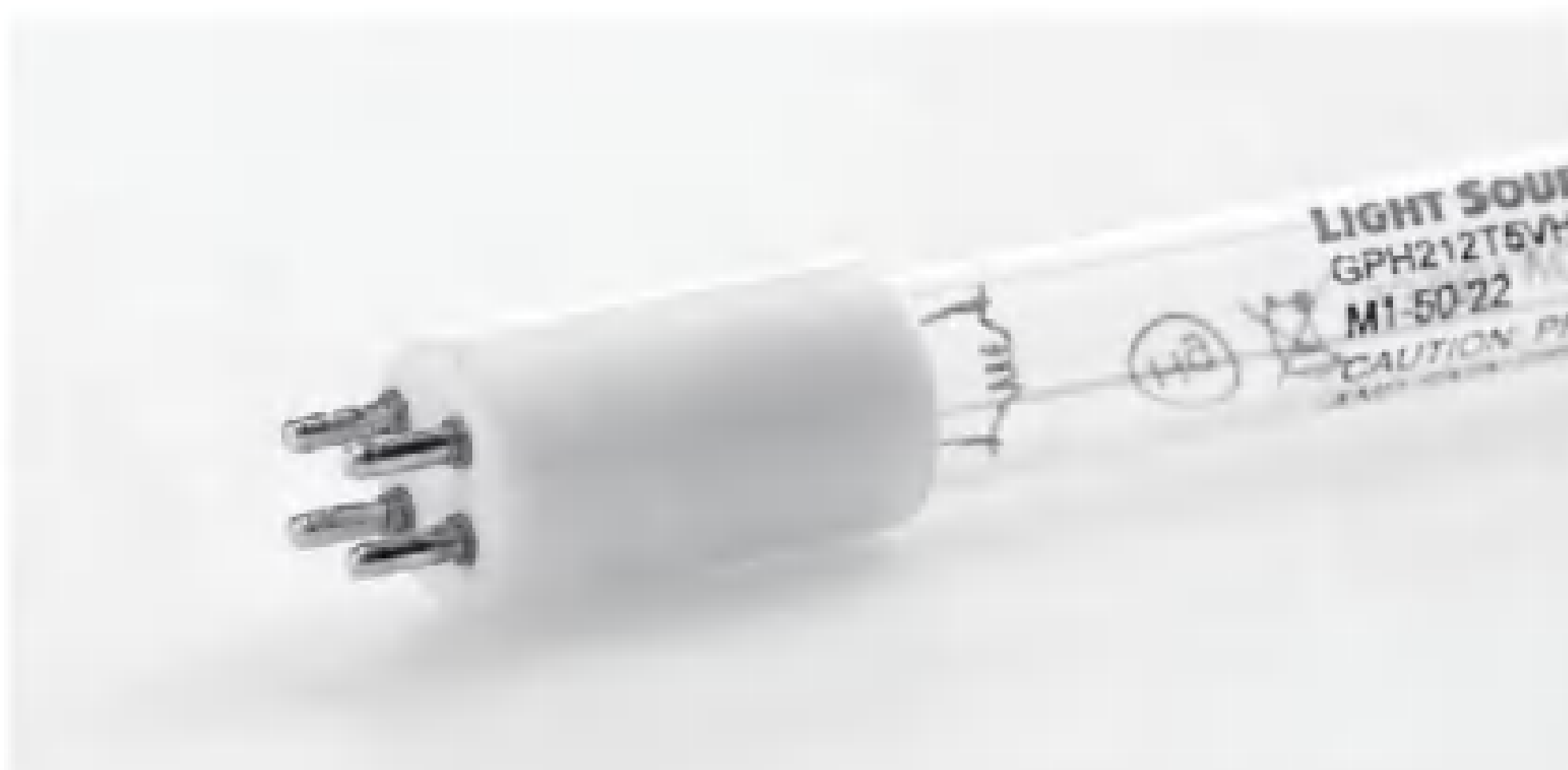
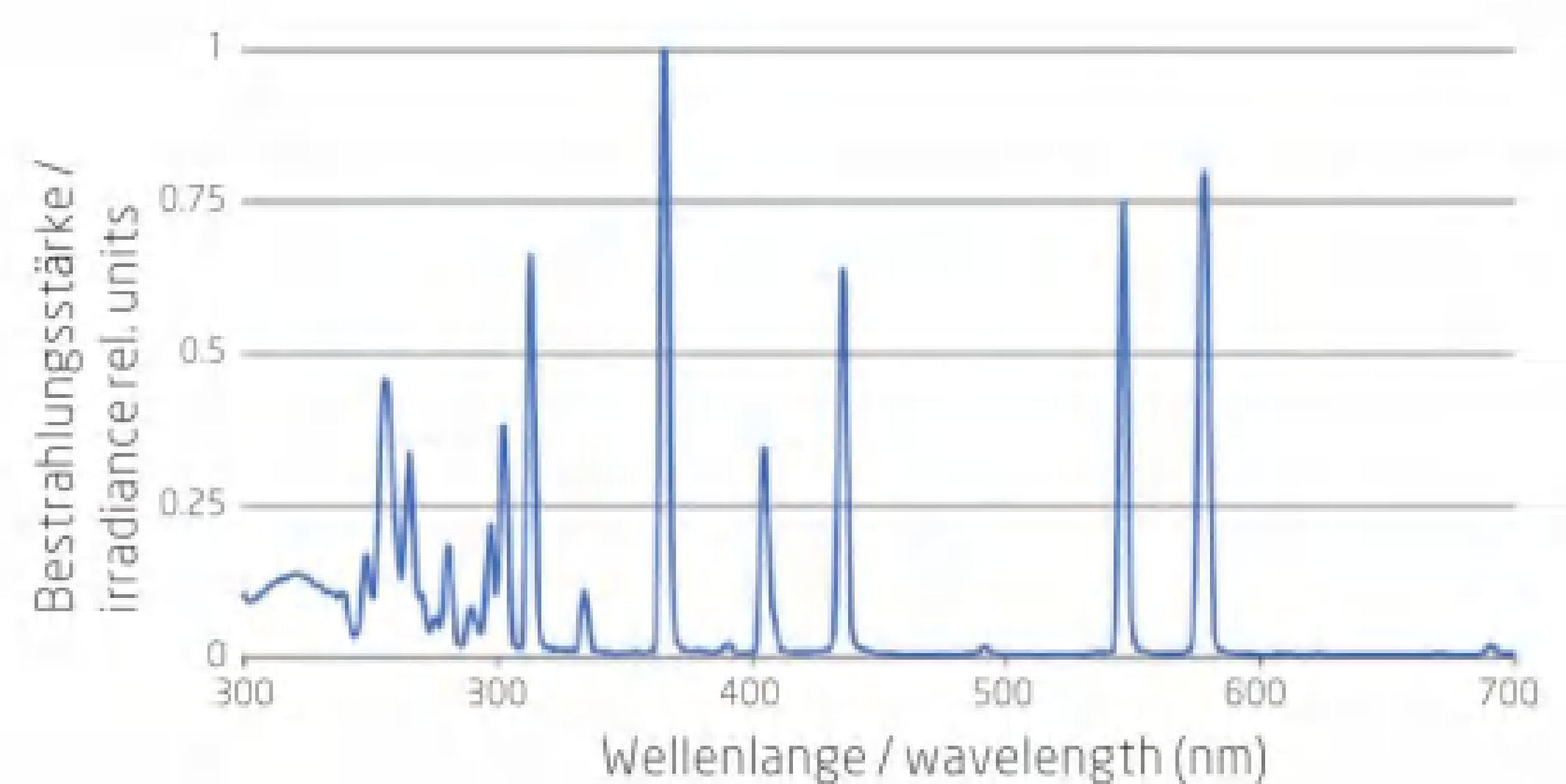
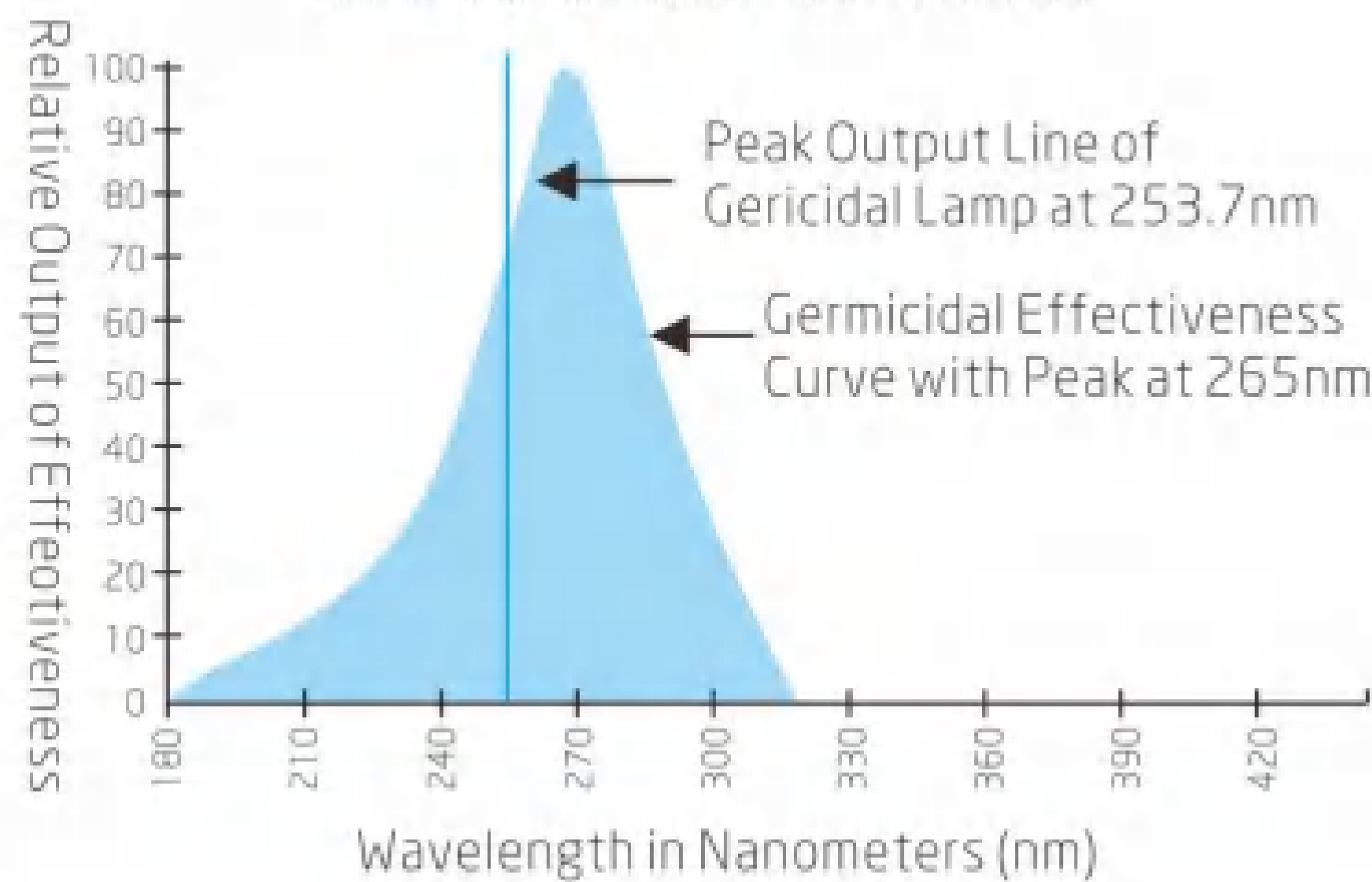
Requirement of water temperature: $\leq 60^{\circ}\text{C}$

The sterilization effect is stronger than low voltage and chloramines and urea can be decomposed effectively.

Life-span of lamp tube: 4000~5000 hours

Costs are high. Characterized by a high power and strong UV, it is especially applicable to the sterilization of a large flow of water

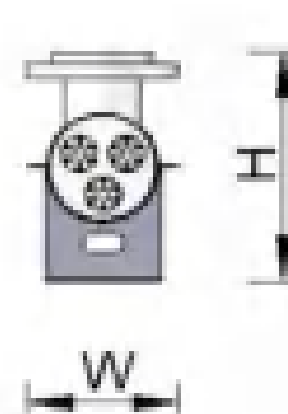
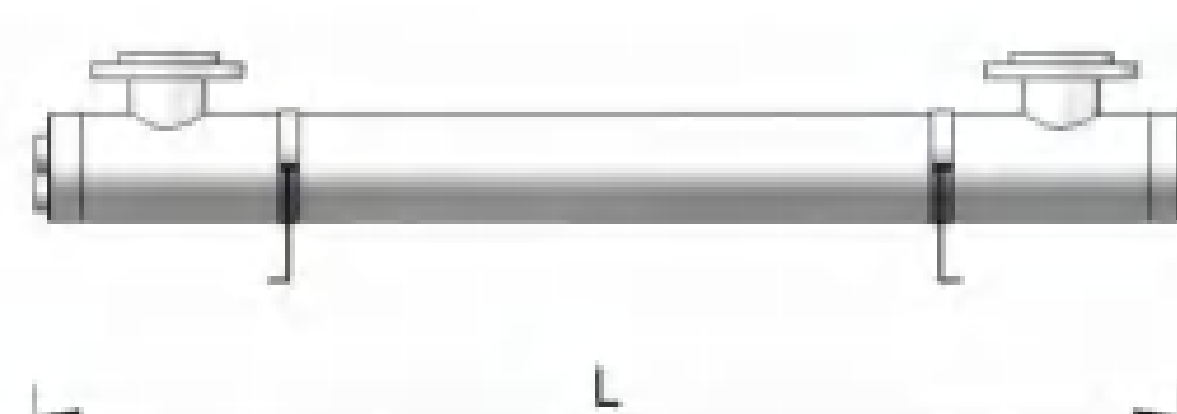
LAMP OUTPUT vs. EFFECTIVENESS



UVWH SERIES UV STERILIZER FOR SEAWATER

Features:

- The reaction chamber is made of high-quality HDPE material, with excellent anti-aging, acid & alkali resistance, and corrosion resistance.
- Safe and efficient, no secondary pollution, no harmful side reactant.
- Adopts imported ultraviolet lamps from Europe or America and high-quality electronic ballasts.
- The control box is made of carbon steel, and stainless steel is optional.
- The control box has the display function of cumulative working time.
- The control box is equipped with lamp working status indicator and fault alarm buzzer.
- The control box uses a built-in fan for cooling.
- The reaction chamber is equipped with a sewage discharge outlet.
- The water inlet and outlet directions of the reaction chamber can be customized.
- UV light intensity monitor, water temperature sensor and water pressure sensor is optional.
- Efficiency of UV disinfection (UV dose: 30mj/cm²).



Product parameters

Model	Design Flow Rate (m ³ /h) @30mj/cm ²	UV Lamp W/Quantity	Power (W)	Tube Life (H)	Power Supply	Working Pressure (Mpa)	Water Temperature (°C)	Inlet/Outlet (Flange)	Reator Size L x W(Φ) x H (mm)
WL-UVWH40	5	40W×1	40	8000	230VAC,50/60Hz	0.4	5-40	1.5"	980×225×310
WL-UVWH80	8	40W×2	80	8000	230VAC,50/60Hz	0.4	5-40	2"	980×225×310
WL-UVWH120	12	40W×3	120	8000	230VAC,50/60Hz	0.4	5-40	2"	980×225×310
WL-UVWH160	16	40W×4	160	8000	230VAC,50/60Hz	0.4	5-40	2.5"	980×225×310
WL-UVWH240	25	80W×3	240	8000	230VAC,50/60Hz	0.4	5-40	2.5"	980×225×310
WL-UVWH320	32	80W×4	320	8000	230VAC,50/60Hz	0.4	5-40	3"	980×225×310
WL-UVWH400	40	80W×5	400	8000	230VAC,50/60Hz	0.4	5-40	3"	980×280×400
WL-UVWH480	45	120W×4	480	9000	230VAC,50/60Hz	0.4	5-40	4"	1210×225×310
WL-UVWH600	55	120W×5	600	9000	230VAC,50/60Hz	0.4	5-40	4"	1210×280×400
WL-UVWH720	65	120W×6	720	9000	230VAC,50/60Hz	0.4	5-40	4"	1210×280×400
WL-UVWH775	70	155W×5	775	9000	230VAC,50/60Hz	0.4	5-40	4"	1670×285×400
WL-UVWH840	75	120W×7	840	9000	230VAC,50/60Hz	0.4	5-40	6"	1210×280×400
WL-UVWH930	85	155W×6	930	9000	230VAC,50/60Hz	0.4	5-40	6"	1670×285×400
WL-UVWH1085	100	155W×7	1085	9000	230VAC,50/60Hz	0.4	5-40	6"	1670×340×500
WL-UVWH1280	110	320W×4	1280	16000	230VAC,50/60Hz	0.4	5-40	6"	1670×285×400
WL-UVWH1600	125	320W×5	1600	16000	230VAC,50/60Hz	0.4	5-40	6"	1670×285×400
WL-UVWH1920	150	320W×6	1920	16000	230VAC,50/60Hz	0.4	5-40	6"	1670×580×630
WL-UVWH2240	175	320W×7	2240	16000	230VAC,50/60Hz	0.4	5-40	8"	1670×580×630
WL-UVWH2560	200	320W×8	2560	16000	230VAC,50/60Hz	0.4	5-40	8"	1670×580×630
WL-UVWH2880	225	320W×9	2880	16000	230VAC,50/60Hz	0.4	5-40	8"	1670×580×630
WL-UVWH3520	330	320W×11	3520	16000	230VAC,50/60Hz	0.4	5-40	10"	1670×700×700

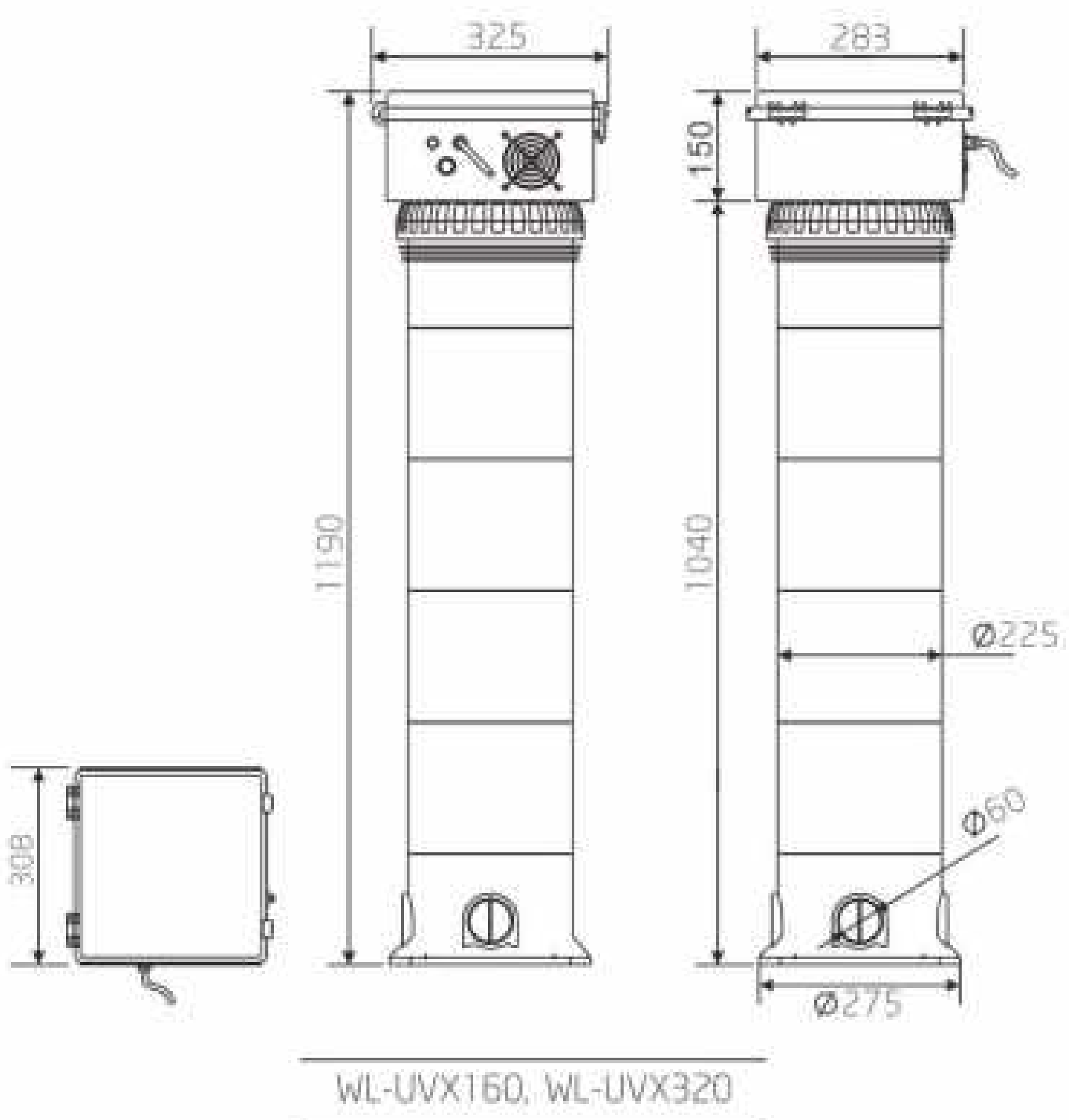
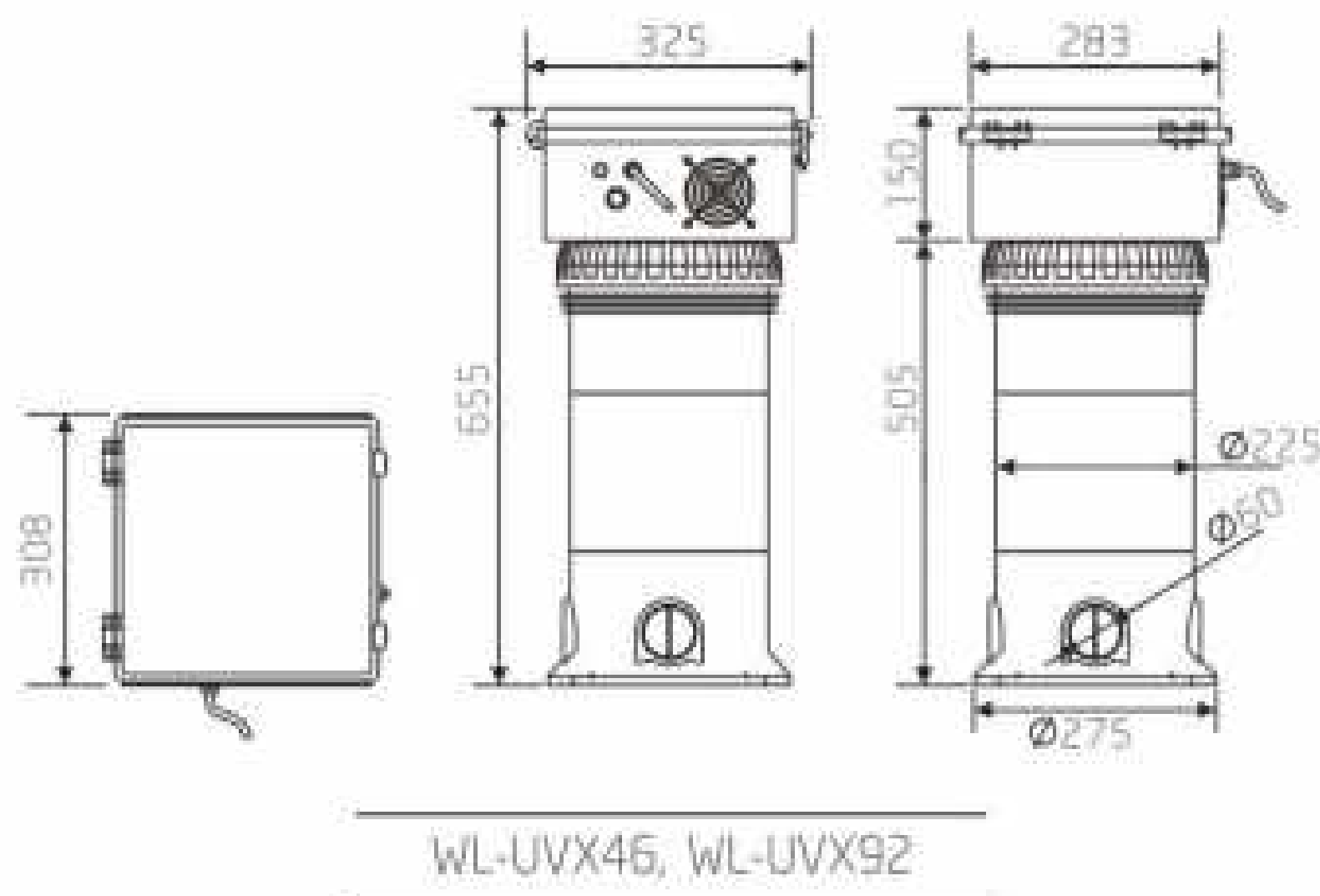
UVX SERIES UV STERILIZER

Specially designed for sea water environment. The housing is made of high quality PVC, which is anti-corrosion and durable. Equipped with UV-C lamp and high purity quartz sleeves for high efficient and long term sterilization. The disinfection process is fully closed, with sound and light alarm device, no chemical reaction and by-products.

Advantages:

- High quality UV-C lamp which can achieve 99% sterilization rate.
- Stable and accurate dosage, service life of lamp is more than 10,000 hours.
- Excellent quartz tube provides transmittance over 99%.
- Safe and reliable operation, simplified operation and reduced maintenance.

Model	Flow rate (m³/h)	Total power (W)	Voltage (V)	Connection size (mm)
WL-UVX46	5	46	220/50Hz	DN63
WL-UVX92	8	92	220/50Hz	DN63
WL-UVX160	15	160	220/50Hz	DN63
WL-UVX320	25	320	220/50Hz	DN63



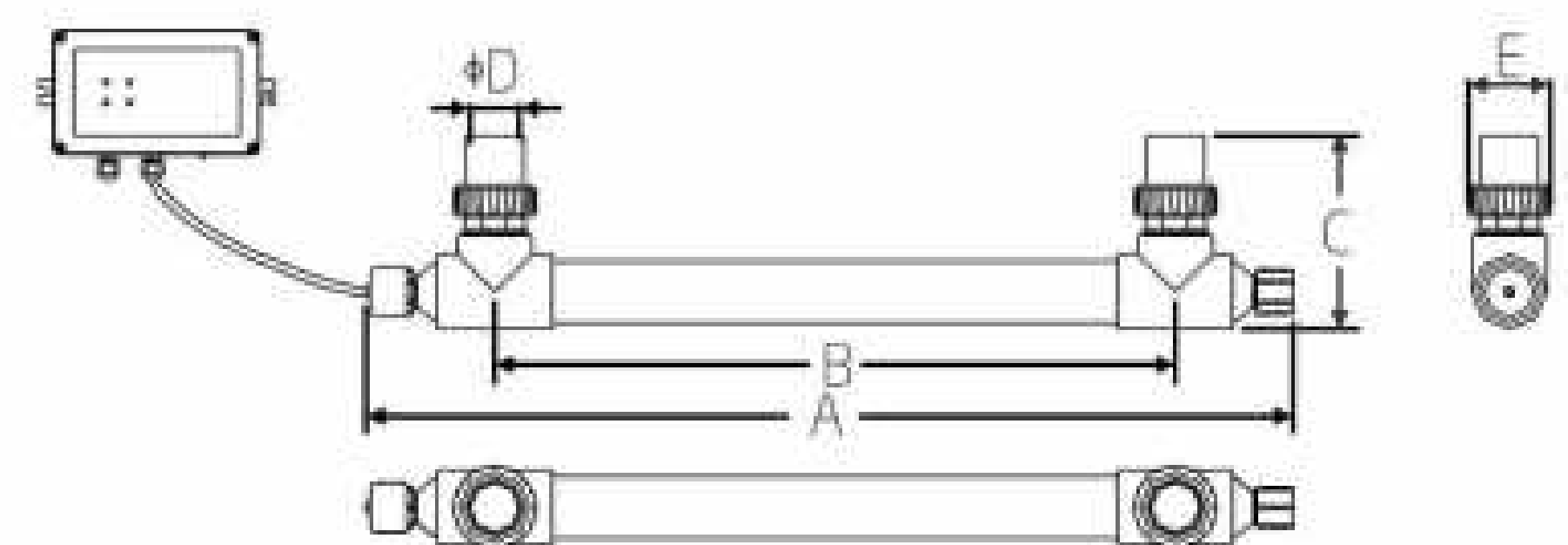
UVD SERIES UV STERILIZER



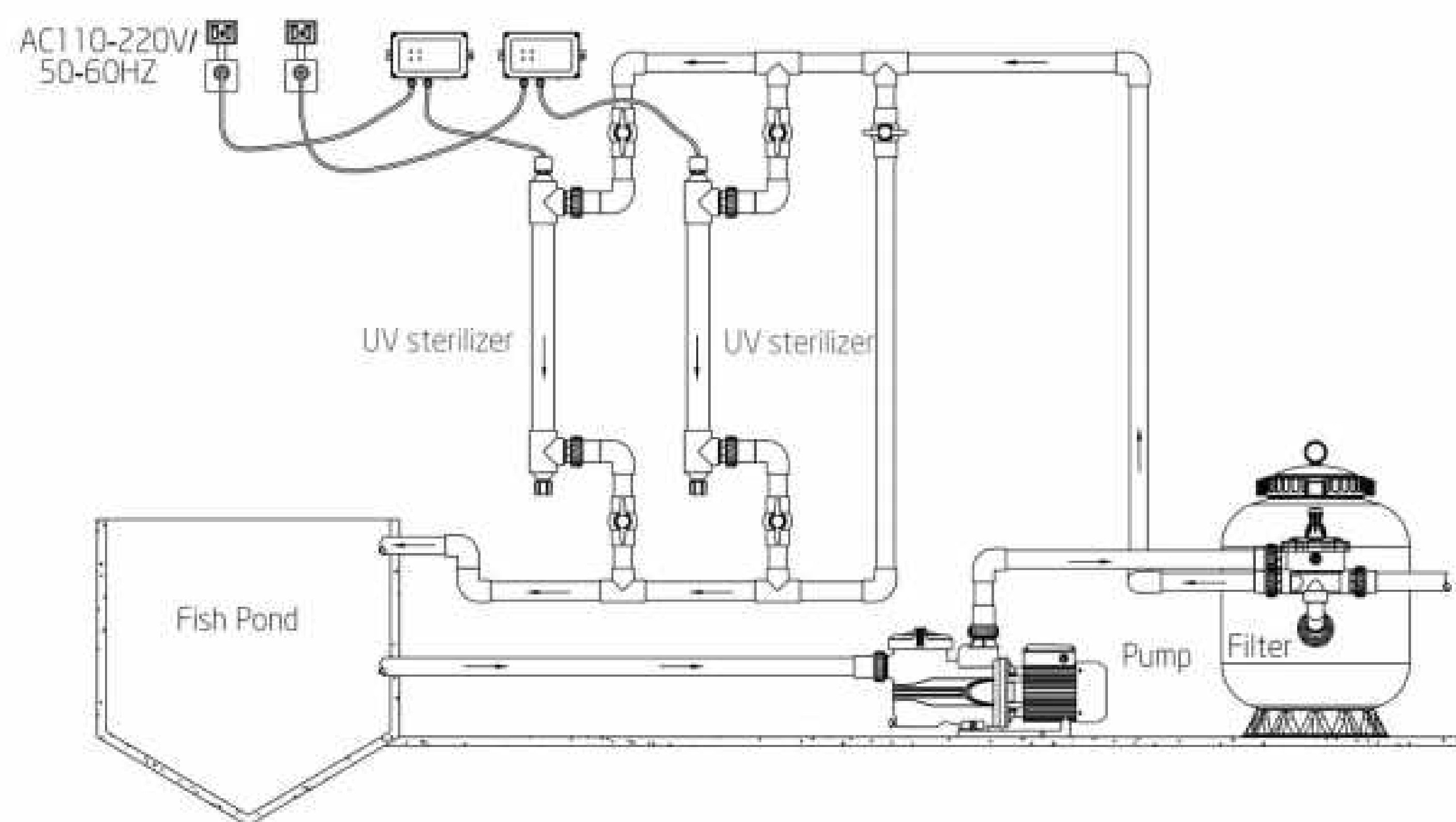
UV sterilizer is an effective product to destroy the genetic structure of bacterial and viruses, and inhibits their ability to multiply, rendering them harmless.

Features:

- High quality UV-C lamp that achieve 98% sterilization rate
- Durable UV-C lamp more than 8,000 hours life time
- High quality quartz Sleeve has more than 90%transmittance rate
- Available in 50Hz or 60Hz when request.
- Application in swimming pool and fish pond



A(mm)	900	900	1055	1200
B(mm)	662	662	817	962
C(mm)	235	235	235	235
E(mm)	101	101	101	101



Model	Power (W)	Flow rate (m³/h)	Voltage & V ϕ	Lamp quantity	Pipe size (inch/mm)	Fish pond volume (m³)	Pool volume (m³)
WL-UVD40	40	5	220	1	1.5" 50mm	15	30
WL-UVD80	80	8	220	1	1.5" 50mm	24	48
WL-UVD100	100	10	220	1	1.5" 50mm	30	60
WL-UVD120	120	12	220	1	1.5" 50mm	36	72

UVC SERIES UV STERILIZER

Ultraviolet is accepted all over the world as a reliable, cost-effective and above all environmentally friendly aquarium water disinfection solution.

UV-C radiation destroys the genetic structure of bacteria and viruses, and inhibits their ability to multiply, rendering them harmless.

Features:

- Physical sterilization, no side effects, no secondary pollution.
- Simple, efficient, small occupation.

WL-UVC series full flow ultraviolet disinfectant device uses a special made high power ozone free ultraviolet germicidal lamp. The device is also equipped with a micro carbon austenite stainless steel barrel with a specially processed interior, while the exterior of the barrel is also specially polished. The result of this is the water passing the barrel would be radiated and receive 253.7nm (UVC) of ultraviolet with passing through the barrel, providing a excellent disinfectant effect.

Features:

- The reactor use 304 polished stainless steel, the smooth interior leaves no blind spot for sterilization.
- The ultraviolet light tube is equipped with a quartz sleeve, to ensure optimal working temperature.
- The electrical configuration of the device is suitable to most electrical specifications.
- Special exterior design makes the device convenient to use. All rounded sterilization, highly efficient, sterilization rate up to 99.9%.
- High output, physical sterilization, no side effects, no secondary pollution.
- The amount of water that can be sterilized ranges from 5.5-250T/H. The device adapts to swimming pools, spa and water parks of various sizes.



Thread connection



Flange connection



Product parameters

Model	Power (W)	Rated flow (m³/h)	Working voltage (V)	Cabinet	Cabinet size L×D×H (mm)	Control box		Lamp power W x Qty	Inlet & outlet diameter DN
						With/without	Material		
WL-UVCn-78	78	5.5	220V/50Hz	304SS	930×108×720	With	Painted carbon steel	39W×2	DN32 screw
WL-UVCn-160	160	12	220V/50Hz	304SS	930×108×720	With	Painted carbon steel	80W×2	DN50 screw
WL-UVC-240	240	20	220V/50Hz	304SS	930×159×780	With	Painted carbon steel	80W×3	DN65
WL-UVC-320	320	25	220V/50Hz	304SS	930×159×780	With	Painted carbon steel	80W×4	DN80
WL-UVC-465	465	35	220V/50Hz	304SS	1630×219×830	With	Painted carbon steel	155W×3	DN100
WL-UVC-620	620	45	220V/50Hz	304SS	1630×219×830	With	Painted carbon steel	155W×4	DN80 or 100
WL-UVC-775	775	60	220V/50Hz	304SS	1630×219×1080	With	Painted carbon steel	155W×5	DN150
WL-UVC-930	930	80	220V/50Hz	304SS	1630×325×1180	With	Painted carbon steel	155W×6	DN150
WL-UVC-1280	1280	90	220V/50Hz	304SS	1630×325×1180	With	Painted carbon steel	320W×4	DN150
WL-UVCP-1085	1085	100	220V/50Hz	304SS	1630×325×1180	With	Painted carbon steel	155W×7	DN150
WL-UVCP-1395	1395	125	220V/50Hz	304SS	1630×325×1200	With	Painted carbon steel	155W×9	DN150
WL-UVCP-1600	1600	110	220V/50Hz	304SS	1630×325×1400	With	Painted carbon steel	320W×5	DN150
WL-UVCP-1705	1705	150	220V/50Hz	304SS	1630×325×1500	With	Painted carbon steel	155W×11	DN200
WL-UVCP-1920	1920	130	220V/50Hz	304SS	1630×325×1500	With	Painted carbon steel	320W×6	DN150
WL-UVCP-2240	2240	150	220V/50Hz	304SS	1630×377×1500	With	Painted carbon steel	320W×7	DN200
WL-UVCP-2560	2560	180	220V/50Hz	304SS	1630×377×1500	With	Painted carbon steel	320W×8	DN200
WL-UVCP-2880	2880	200	220V/50Hz	304SS	1630×377×1500	With	Painted carbon steel	320W×9	DN200
WL-UVCP-3840	3840	250	220V/50Hz	304SS	1630×426×1500	With	Painted carbon steel	320W×12	DN250

Note: • Lamp service life ≥9000H

- UVCn: thread connection; UVC: flange connection; UVCP: flange connection; all the control box are painted carbon steel.
- Can be equipped with manual cleaning device, automatic flushing device, or advanced online monitoring instrument and remote control system.



HIGH-EFFICIENCY UV DISINFECTION SYSTEMS FOR AQUACULTURE WATER TREATMENT



Laswim UV sterilizers provide chemical-free, reliable disinfection for hatcheries and intensive RAS systems. Designed around actual UV dose performance, they ensure stable pathogen control even under varying water conditions. Modular construction and high-quality UV-C lamps make them ideal for new installations or RAS retrofits.

Features:

- High Efficiency: efficiently eliminate algae, virus and various bacteria reaching 99% sterilization rate.
- High Quality: up to 9000h lamp lifespan.
- Good Stability: support 24h continual and stable operation.
- High Reliability: ultraviolet output utilized rate up to more than 95% for higher reliability in sterilization.
- Strong Practicability: applicable in various industries with advantages such as lower operation charges, more simple operation and maintenance, smaller size, and silence.

Product parameters

Model	WL-PVC-30-AR	WL-PVC-60-AR	WL-PVC-80-AR	WL-PVC-100-AR	WL-PVC-150-AR	WL-PVC-200-AR	WL-PVC-300-AR
Water Volume	30m³/h	60m³/h	80m³/h	100m³/h	150m³/h	200m³/h	300m³/h
Lamp power(w)	120W	120W	120W	120W	150W	150W	150W
Total Lamp power(w)	360W	720W	960W	1080W	1200W	1350W	220W
Current and voltage	220V 32A						
Dimensions(L*W*H)(mm):	1250×220×500	1250×285×435	1250×340×570	1250×340×570	1650×340×570	1650×395×630	1650×445×700
Lamp Lifetime(h)	9000						
Inlet Diameter(mm)	110	160	160	200	200	250	315
Outlet Diameter(mm)	110	160	160	200	200	250	315
Material	UPVC						

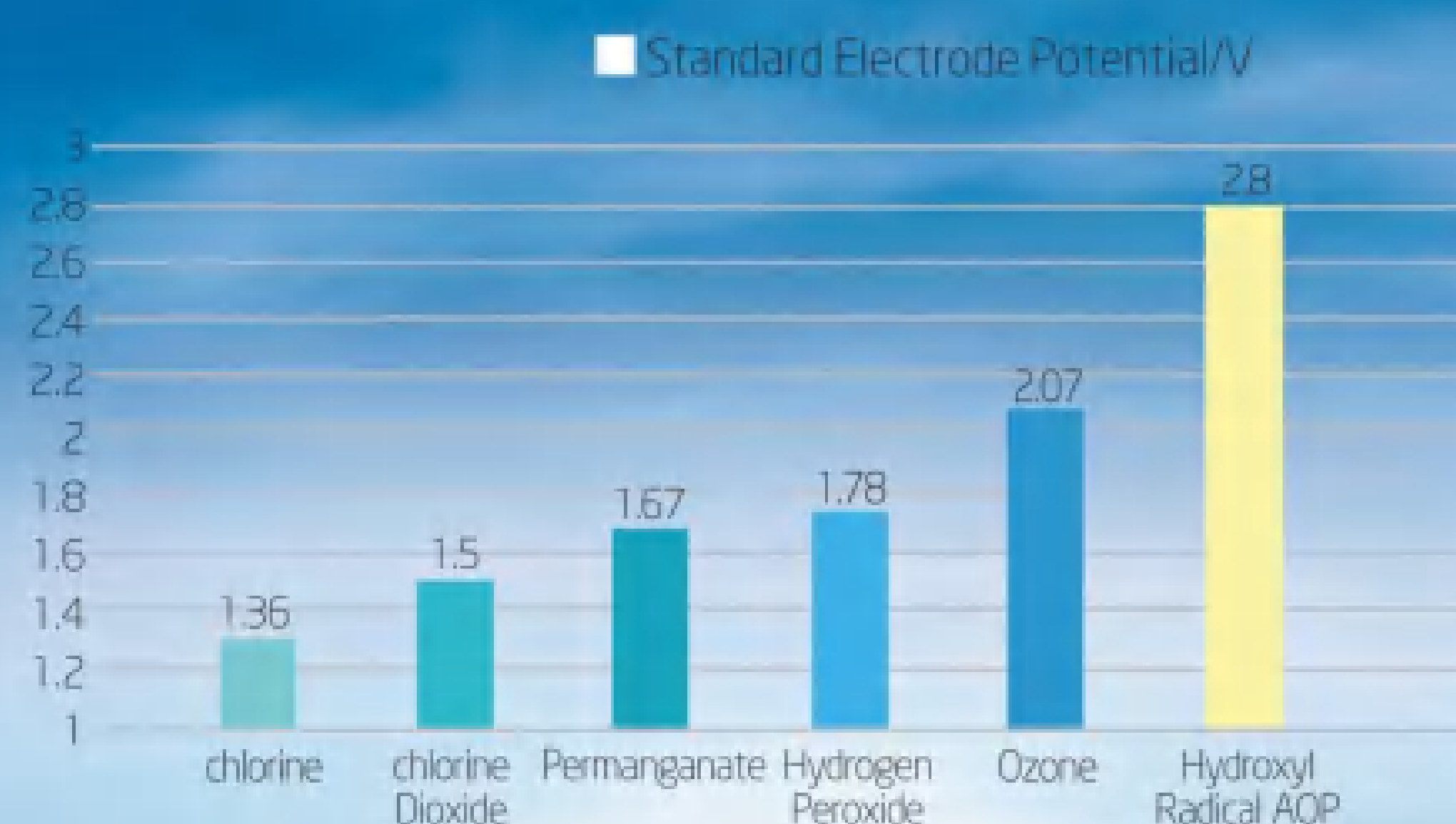
OZONE DISINFECTION

Ozone generation methods based on the principle can be classified into photochemical function, electrochemical function, atomic radiation and corona discharge. Wherein, corona discharge is widely applied to ozone generator. The basic principle of generating ozone with the corona discharge method is the ozone generator which consists of one pair of electrodes, dielectric and discharging gap. When AC high voltage is imposed to two electrodes, high-speed electrons and oxygen molecules impact with each other, corona discharge occurs in the gap under the action of external high energy, oxygen gases are ionized, concentration of oxygen ions in the gap increases significantly, oxygen ions and oxygen molecules react with each other to generate ozone. The generation process is also a process of thermal reaction where heat energy is released.

With the help of the strong oxidation ability of ozone, the cell wall and RNA of bacteria are destructed, and DNA, RNA, protein, lipid, polysaccharide and other macromolecular polymers are decomposed. It can penetrate into the cell membrane tissue to cause permeability distortion of cells, resulting in decomposition and death of cells. In addition, the DNA, bacterial parasites and other contents in the dead bacteria can be decomposed and killed, so as to achieve the purpose of sterilization.

AOP Leads the Disinfection Revolution, Moving Towards the Disinfection Power of the Future!

Mature technology, applied in international high-end water treatment for 20 years.



AOP (Advanced Oxidation Process) is a disinfection technology marked by the generation of hydroxyl radicals ($\cdot\text{OH}$). The oxidation capacity of hydroxyl radicals is more effective and stronger than other disinfection methods. The disinfection process is controllable, safe and harmless to the human body, and the final products are water and inorganic salts, which are non-polluting to the environment.

AOP Function Introduction

◆ Strong Oxidizing Capability

Effectively Eliminates 99.99% of bacteria, pathogens, and chlorine-resistant microorganisms.

◆ Clear Water Quality

Removes algae, inorganic matter, and suspended solids; destroys chloramines.

◆ Cost Savings

Compact footprint, saves electricity and water replenishment, reduces chemical usage.

◆ Degradation Capacity

Hydroxyl radicals can decompose all microorganisms and organic matter.

◆ Convenient Management

Supports both manual and remote control operation.

◆ Leading Technology

Demonstrates significant capability among applicable water disinfection processes.



ADVANCED OXIDATION PROCESS

LASWIM AOP Advanced Oxidation Disinfection System is a new-generation, forward-looking oxidation and disinfection equipment. It generates various free radicals, including hydroxyl radicals, which possess highly efficient and broad-spectrum sterilization properties, making them highly effective against stubborn bacteria, viruses, and pathogens.

Advanced technology and excellent disinfection ability make the AOP advanced oxidation disinfection machine become the current advanced water disinfection and purification system, it is also an ideal choice for aquarium and aquaculture water disinfection.

Material:

- House: mild steel coated with epoxy resin
- Ozone Module: quartz tube +316 stainless steel electrode assembly

Extensive sterilization:

Microbacteria, Clostridium botulinum, Bacillus, Enterobacteriaceae, Escherichia coli, Erysipelas, Bacillus spores, Staphylococcus, Filtration Virus and Poliovirus.

Other functions:

Removes algae, eliminates inorganic matter, clears suspended solids, enriches water with dissolved oxygen, activates minerals, etc.

Product Features:

- Integrated structure, easy installation, energy-saving and space-saving.
- Ozone safely generated and injected under a vacuum negative pressure operation mode.
- Built-in independent exhaust gas treatment module and exhaust pipe, can decompose excess ozone gas, to ensure the safety of the server room.
- The air-cooling system has a remarkable heat dissipation effect, protecting the normal operation of ozone components and extending its service life.
- Manual and automatic mode control.



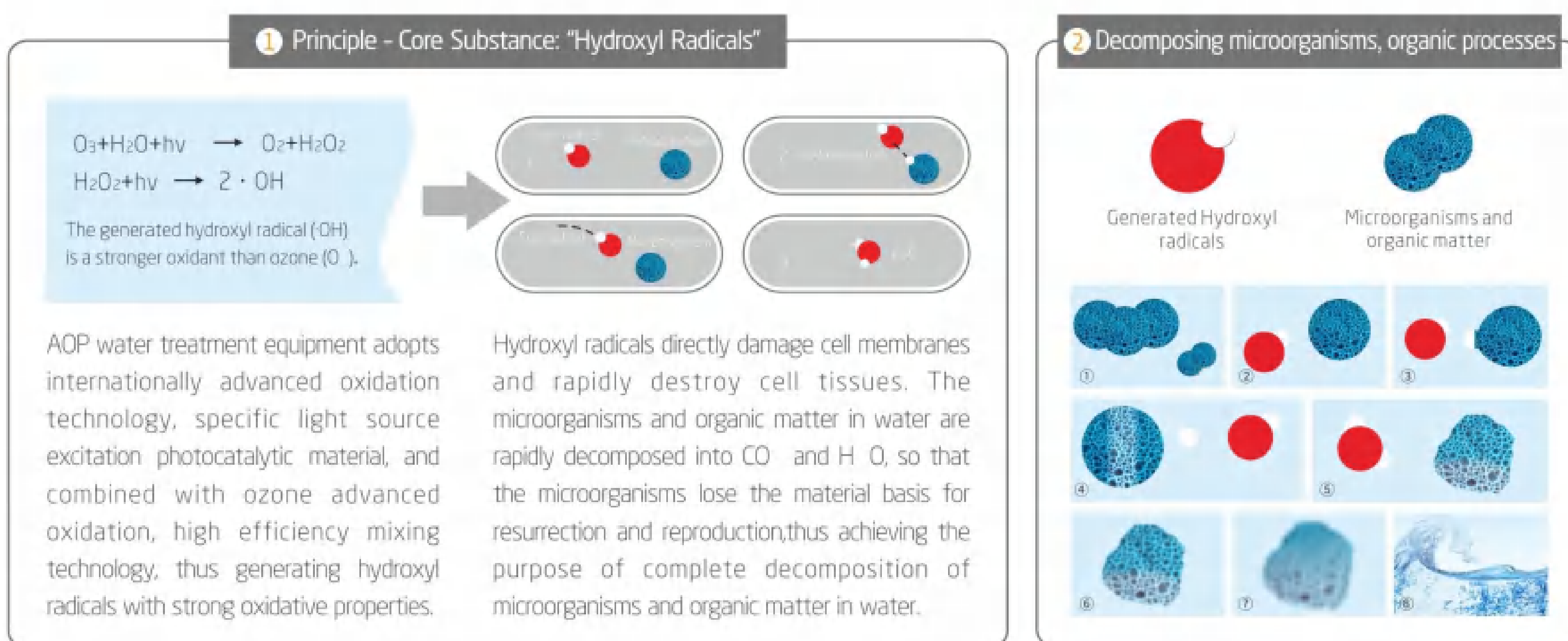
WL-AOP100



WL-AOP300

OZONE
DISINFECTION

AOP (Advanced Oxidation Process) is a disinfection technology marked by the generation of hydroxyl radicals ($\cdot\text{OH}$). The oxidation capacity of hydroxyl radicals is more effective and stronger than other disinfection methods. The disinfection process is controllable, safe and harmless to the human body, and the final products are water and inorganic salts, which are non-polluting to the environment.



Product parameters

Model	WL-AOP100	WL-AOP200	WL-AOP300	WL-AOP400	WL-AOP300PRO	WL-AOP400PRO
Water volume	100m ³	200m ³	300m ³	400m ³	300m ³	400m ³
Oxidezer production	5g/h	8g/h	12.5g/h	16.5g/h	12.5g/h	16.5g/h
Feed Gas	3L/min	3L/min	5L/min	5L/min	5L/min	5L/min
UV dose	30mj/cm ² (8h)	30mj/cm ² (8h)	30mj/cm ² (8h)	30mj/cm ² (8h)	30mj/cm ² (8h)	30mj/cm ² (8h)
Power supply	220V/1P/50Hz	220V/1P/50Hz	220V/1P/50Hz	220V/1P/50Hz	220V/1P/50Hz	220V/1P/50Hz
Power consumption	1.1kw	1.2kw	1.5kw	1.6kw	1.5kw	1.6kw
Dimensions (Lx Wx H)	700×620×1775mm	700×620×1775mm	850×800×1800mm	850×800×1800mm	850×800×1800mm	850×800×1800mm
Net weight	184kg	189kg	245kg	255kg	245kg	255kg
Bypass flow rate	5m ³ /h	8m ³ /h	12.5m ³ /h	16.5m ³ /h	12.5m ³ /h	16.5m ³ /h
Inlet size	DN32	DN32	DN50	DN50	DN50	DN50
Outlet size	DN32	DN32	DN50	DN50	DN50	DN50
Method	Air cooling	Air cooling	Air cooling	Air cooling	Water cooling	Water cooling
Gas feeding	Oxygen source					
Material	epoxy coated mild steel					

INTEGRATED OZONE GENERATOR

This series of integrated all-in-one ozone generator, complete with a booster pump and gas source for easy installation and operation. Features a connectable DTA non-glass discharge body, delivering high ozone output and concentration. With specially designed gas source treatment technology, our ozone generator ensures reliable performance, exceptional operational stability, and an extended service life.

Features:

- The outer electrode tube is made of SS316L, and the discharge body uses imported dielectric coating materials.
- Adopting specialized discharge technology with high adaptability.
- Special gas source processing method, high drying efficiency and good quality of gas source.
- The special enamel discharge body has high strength, excellent heat resistance and pressure resistance, making it easy to maintain.
- Adjustable ozone production, high ozone concentration, high production, more stable performance and longer life of the equipment.
- With operation monitoring and protection functions such as current, voltage, temperature, flow rate, gas pressure and operation status.
- Manual and automatic control modes are available, can be selected according to the usage.



OZONE
DISINFECTION

Product parameters

Model	Ozone output (g)	Ozone concentration (mg/h)	Cooling water flow rate (m³/h)	Power supply (V/Hz)	Average operating Power (kW)	Inlet and outlet size	Dimension (mm)
WL-CF-G-10	10	≥25	0.04	220/50	1.42	G1"	1050×600×1570
WL-CF-G-20	20	≥25	0.08	220/50	2.07	G1-1/4"	1050×600×1570
WL-CF-G-30	30	≥100	0.06	220/50	1.48	G1"	1300×600×1570
WL-CF-G-40	40	≥100	0.08	220/50	1.64	G1"	1300×600×1570
WL-CF-G-50	50	≥100	0.10	220/50	1.83	G1"	1400×600×1570
WL-CF-G-60	60	≥100	0.12	220/50	2.43	G1-1/4"	1400×600×1570
WL-CF-G-80	80	≥100	0.16	220/50	3.26	G1-1/4"	1400×800×1700
WL-CF-G-100	100	≥100	0.20	220/50	3.46	G1-1/4"	1400×800×1700

INTEGRATED OZONE GENERATOR



Features:

- With built-in oxygen generator, uses the oxygen molecules as the adsorbent, separates the oxygen and nitrogen in the air by the pressure swing adsorption(PSA), and filters out the harmful substances in the air.
- Adopts titanium dehydroxylated quartz structure or dehydroxylated quartz structure, with stable performance, high efficiency, long service life.
- Adjustable ozone output and low noise.
- Easy to operate and continuous ozone production.

Product parameters

Model	Ozone output (g)	Oxygen Production Capacity (L/min)	Total power (w)	Power supply (V/Hz)	Dimension (mm)
WL-D-6G	6	3~4	400	220/50	500×390×1200
WL-D-10G	10	3~4	400	220/50	500×390×1200
WL-D-15G	15	5	420	220/50	500×390×1200
WL-D-20G	20	5	450	220/50	500×390×1200
WL-D-32G	32	6~10	600	220/50	500×390×1200
WL-D-40G	40	8~13	1100	220/50	500×1300×1700
WL-D-60G	60	8~13	1300	220/50	500×1300×1700

OZONE GENERATOR

Unique ozone-resistant double-pipeline design, using large-scale IGBT integration technology, titanium dehydroxylated quartz structure or dehydroxylated quartz structure, with stable performance, high efficiency, long service life.



WL-B-40G WL-B-50G
WL-B-60G WL-B-80G
WL-B-100G

WL-B-150G WL-B-200G
WL-B-300G WL-B-400G
WL-B-500G WL-B-600G

Features:

- The device alarms when there is no ozone generation and returns to normal after ozone generating, indicating whether the discharge unit is working normally.
- Over-temperature alarm and shutdown protection, when the temperature is below 50 degrees, it will automatically resume work and stop the alarm.
- Water return alarm. Shut down the device and blowing it dry with oxygen or dry air, the alarm stops after 3 seconds after turning it on again.
- Circuit failure alarm.

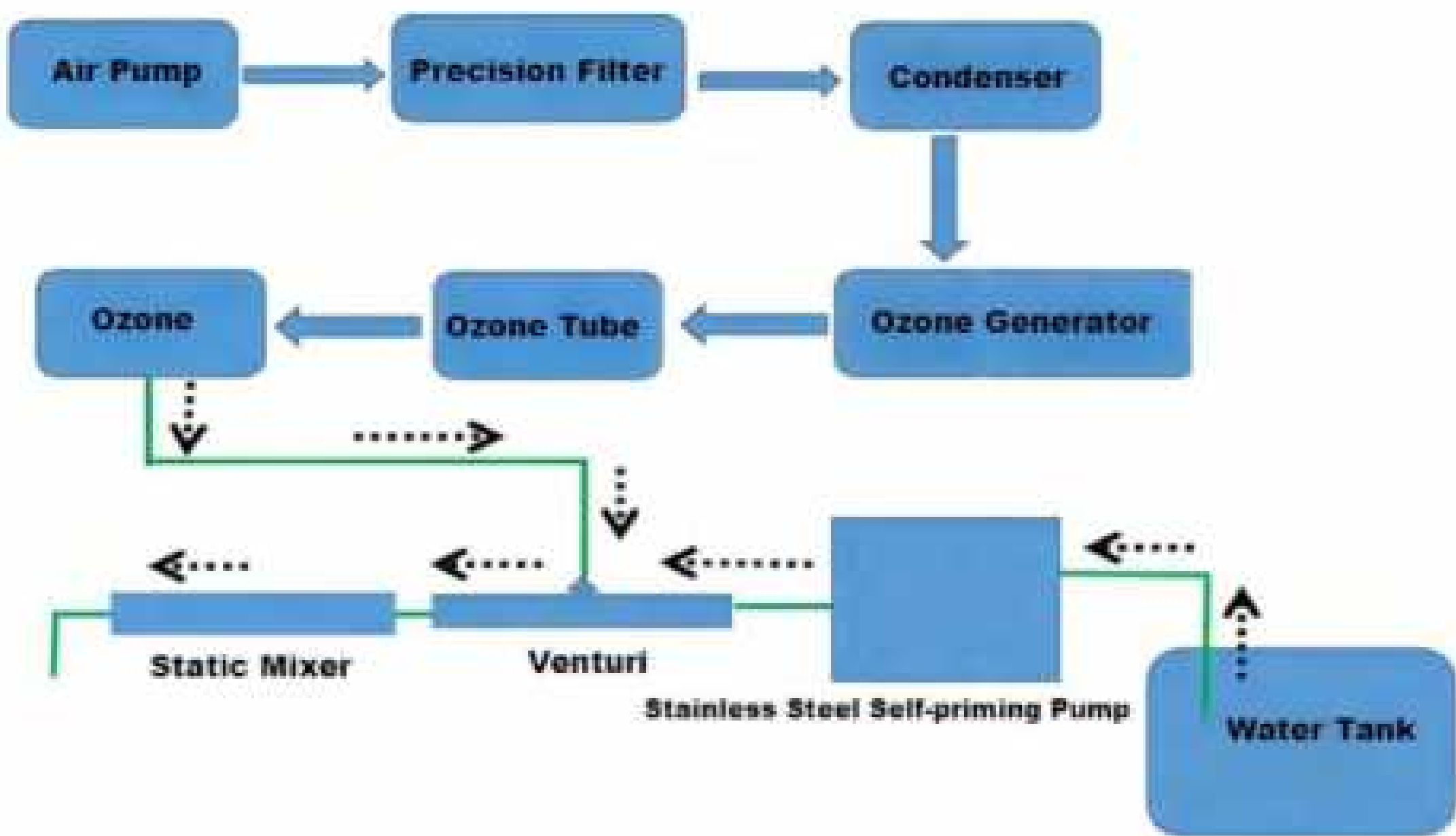
Product parameters

Model	Ozone output (g)	power (w)	Power Supply	Weight (kg)	Dimension (mm)	Cooling Mode	Max. Ozone Concentration (g/m³)	Gas Source
WL-B-40G	40	600	220V/50Hz	26	400×300×950	Water Cooling 0.2~0.5m³/h	Oxygen Source: 50~100 Air Source: 16~30	Use oxygen (bottled oxygen or oxygen generator) as the gas source; or use a clean, dry air source.
WL-B-50G	50	600	220V/50Hz	26	400×300×950			
WL-B-60G	60	1000	220V/50Hz	50	520×370×1150	Water Cooling 0.3~1.0m³/h		
WL-B-80G	80	1200	220V/50Hz	50	520×370×1150			
WL-B-100G	100	1300	220V/50Hz	85	770×500×1200	Water Cooling 0.5~1.5m³/h		
WL-B-150G	150	1800	220V/50Hz	90	770×500×1200			
WL-B-200G	200	2500	220V/50Hz	95	770×500×1200	Water Cooling 1~2m³/h	Oxygen Source: 50~120 Air Source: 16~35	
WL-B-300G	300	3200	220V or 380V/50Hz	120	800×600×1450			
WL-B-400G	400	4500	220V or 380V/50Hz	150	800×600×1450			
WL-B-500G	500	5500	220V or 380V/50Hz	200	1200×600×1450	Water Cooling 1~3m³/h		
WL-B-600G	600	6500	220V or 380V/50Hz	200	1200×600×1450			

INTEGRATED OZONE INJECTION SYSTEM

Product Features:

- Integrated design, all equipment integrated into one unit;
- With self-priming pump;
- Venturi injection of O₃ gas (air or oxygen source);
- Gas/water mixing chamber (stainless steel);
- Optional static mixer (located after the water outlet).



Ozone Water Machine Process Flow Diagram



Model	Q7I-30 PRO
O ₃ Output	30 g/h
Flow Rate	1-3 m³/h
Inlet Dew Point	≤ 50
Inlet Air Temperature	≤ 20°C
Gas Source	Oxygen
Power	1100W @ 220 VAC-50 Hz
Dimensions (mm)	800×400×1400
O ₃ Concentration	5-8 PPM
Cooling Method	Air Cooling + Water Cooling
Inlet Water Pressure	0.15 Mpa
Outlet Water Pressure	0.15 Mpa
Case Material	Stainless Steel
Ambient Conditions	≤ 45°C, Relative Humidity ≤ 80%

OZONE OFF GAS DESTRUCTOR

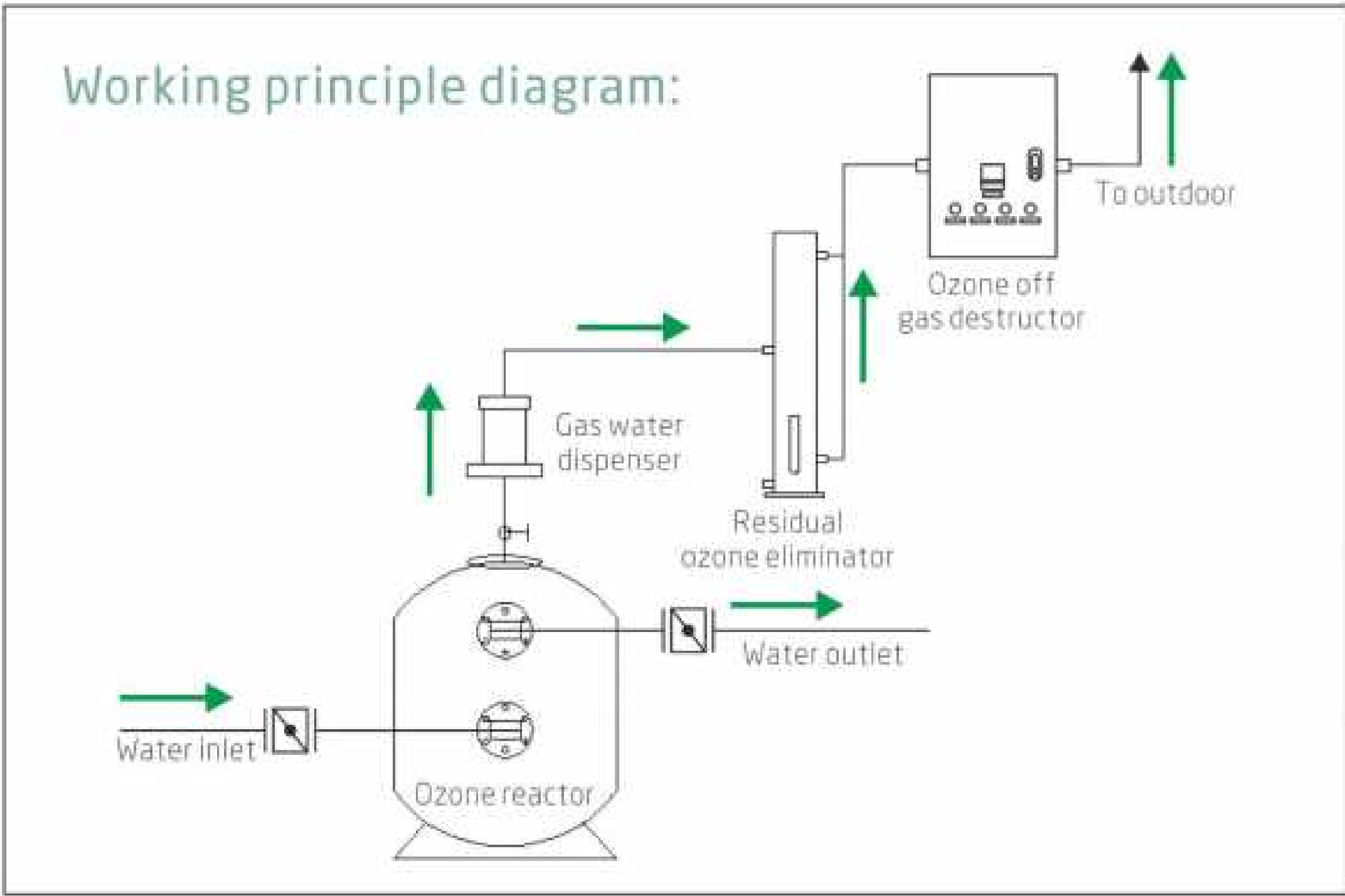
In ozone water treatment systems, not all of the ozone is transferred to the water and escapes. Ozone gas is highly oxidizing. In addition to causing damage to the surrounding equipment and instrument, ozone gas will also pollute the environment, stimulate the human respiratory system, and be harmful to human health. Therefore, ozone off gas that have not been fully absorbed need to be destroyed and decomposed before being discharged into the air.

LASWIM ozone off gas destructor uses ternary catalytic technology to eliminate residual ozone off gas, it converts ozone into oxygen rapidly and without emitting any toxic gases, such as carbon monoxide or carbon dioxide. The body is made of 304 stainless steel, which has strong resistance to ozone corrosion.



Working principle:

Using the principle of ternary catalysis to achieve the effect of removing ozone by heating (temperature control),



Product parameters

Model	Power(W)	Heating temperature range (°C)	Applicable for ozone generator	
WL-OGD250	250	250-280	Ozone output	50g/h
WL-OGD500	500	380-400	Ozone output	100g/h

PORTABLE WATER QUALITY MONITOR

Portable water quality monitors are intelligent analytical instruments designed for diverse applications. They provide accurate measurements of critical parameters, such as dissolved oxygen, ORP and PH, serving industries from aquaculture, wastewater treatment and scientific research. Customized online monitoring systems are also available to meet specific needs.

Features:

- 1. Compact design for easy portability.
- 2. High-precision sensor for accurate and stable performance.
- 3. Built-in rechargeable lithium-ion battery.
- 4. Suitable for use in various water environments.



Dissolved oxygen monitor



ORP monitor



pH monitor



Product parameters

Product Name	Model	Measuring range	Measurement accuracy	Dimension (mm)	Calibration points	Remark
Dissolved oxygen monitor	YT-9130-01	DO: 0.0-40.0mg/L 0-300% Temperature: 0-40°C	DO: $\pm 3\%$ Temperature: $\pm 0.5^{\circ}\text{C}$	80×165×30	1 or 2 points	Built-in rechargeable lithium-ion battery
ORP monitor	YT-9110-01	ORP(mv) -1500~+1500	$\pm 1\%$	80×165×30	1 points	Built-in rechargeable lithium-ion battery
pH monitor	YT-9140-01	pH: 0.00-14.00 Temperature: -10~50°C	pH: ± 0.02 Temperature: $\pm 0.5^{\circ}\text{C}$	80×165×30	2 points	Automatic temperature compensation range: -10-50°C