



# COMMERCIAL SWIMMING POOL PRODUCT



GLOBAL EXPERT IN COMMERCIAL POOL &  
WATER ENVIRONMENT SOLUTIONS



Guangdong LASWIM Water Environment Equipment Co.,Ltd

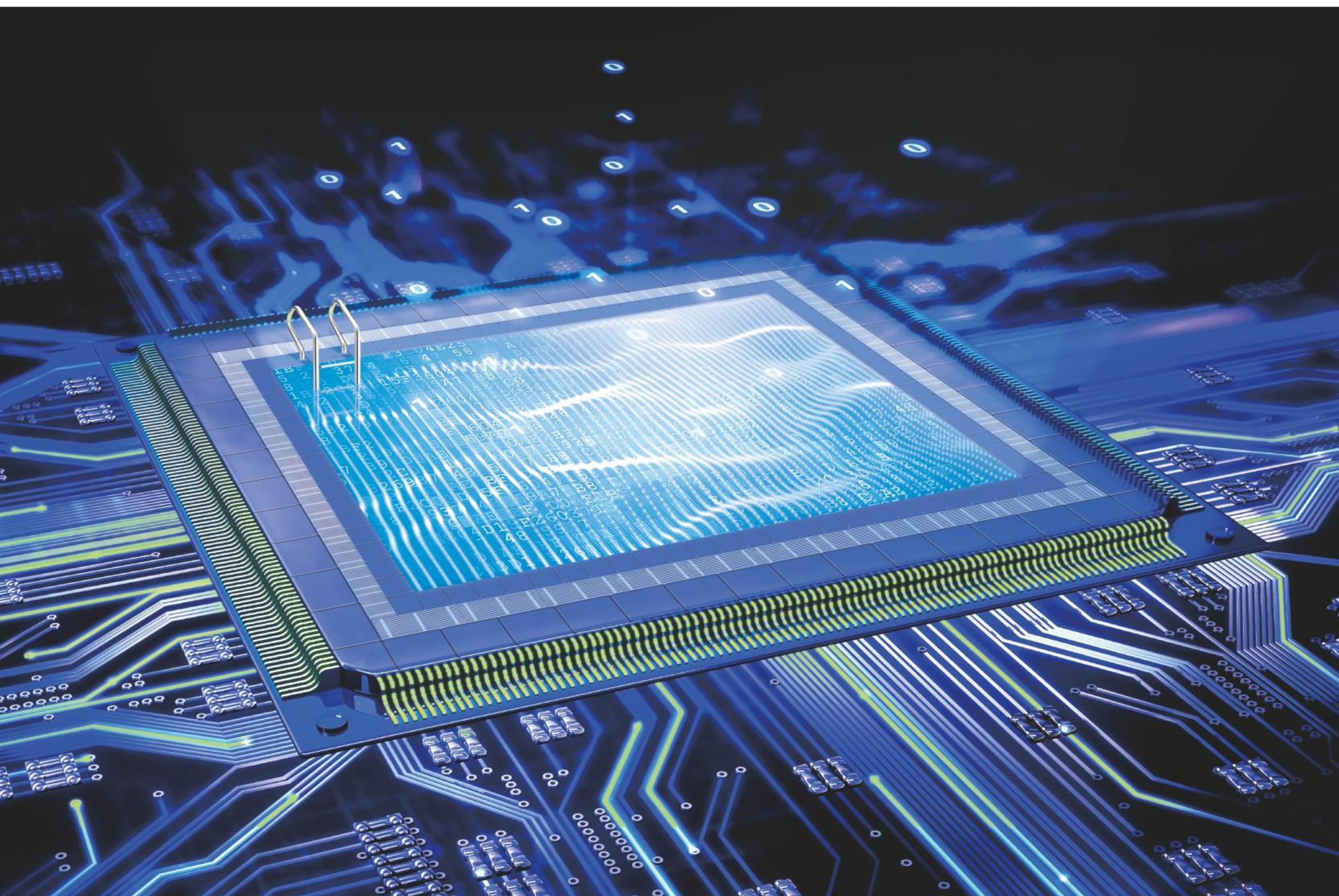
Factory Add: No.16, Jianye Road, Shenghui South Industrial Park, Nantou, Zhongshan City,Guangdong Province,528427, P. R.China

Tel: (0086)760-2312 7666 Fax:(0086)760-2312 7299 Email:info@laswimwater.com

For more information please visit [www.laswimwater.com](http://www.laswimwater.com)

POOL FILTERS | PUMPS | DISINFECTING EQUIPMENT | HEAT PUMP | FILTRATION UNITS | INTELLIGENT CONTROL SYSTEM  
UNDERWATER LIGHTS | COMPETITION POOL EQUIPMENT | POOL FITTINGS & CLEANERS | SWIM CURRENT MACHINE | LSS|RAS EQUIPMENT

## CORE COMPETITIVE ADVANTAGES



### About LASWIM

ialized in R&D, manufacturing, sales of water environment equipments, and providing comprehensive solutions including technical consultation, custom design, products technical training, installation guidance, testing and operation training and

troubleshooting for commerical pools, water parks, hot springs and aquaculture & aquarium. Laswim ensures sustainable, hassle-free aquatic solutions.



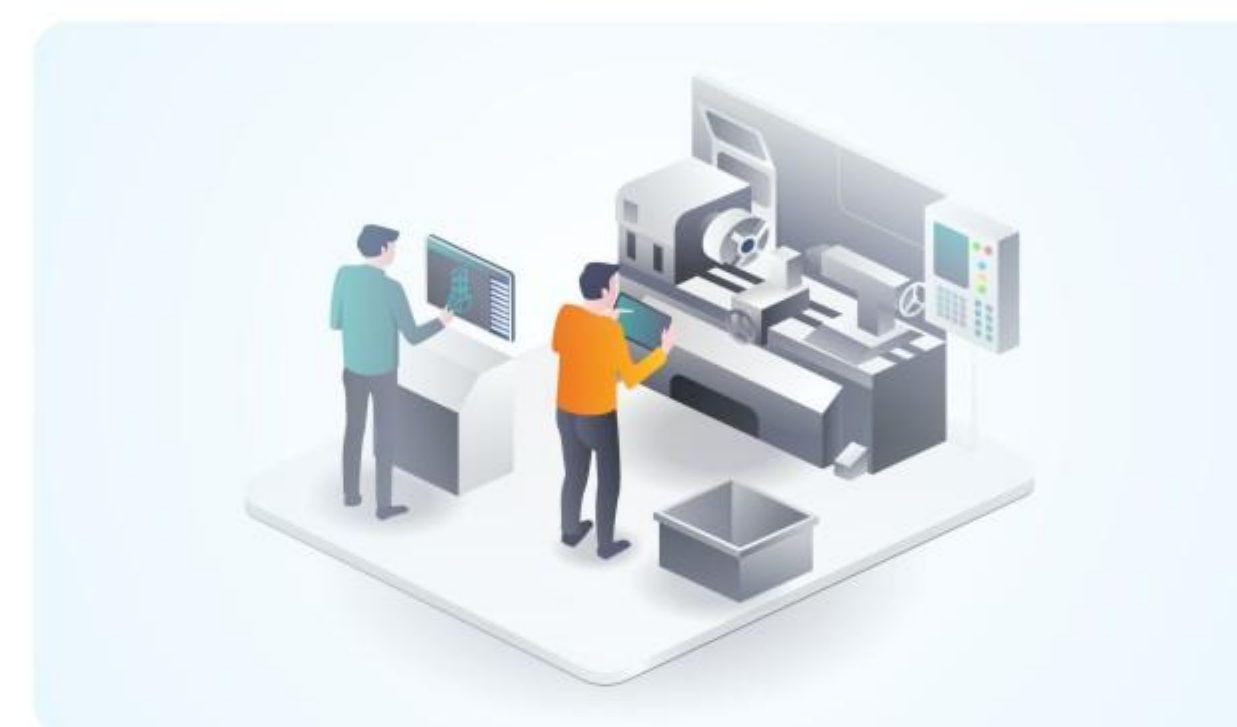
#### International Certifications & Quality Assurance

LASWIM strictly adheres to ISO9001:2015 standards for production and quality control, with products fully certified by CE, TUV, KETI, and widely recognized globally. Choosing LASWIM allows customers to procure all core pool equipment in one stop, receiving high-quality, energy-efficient products along with professional technical support.



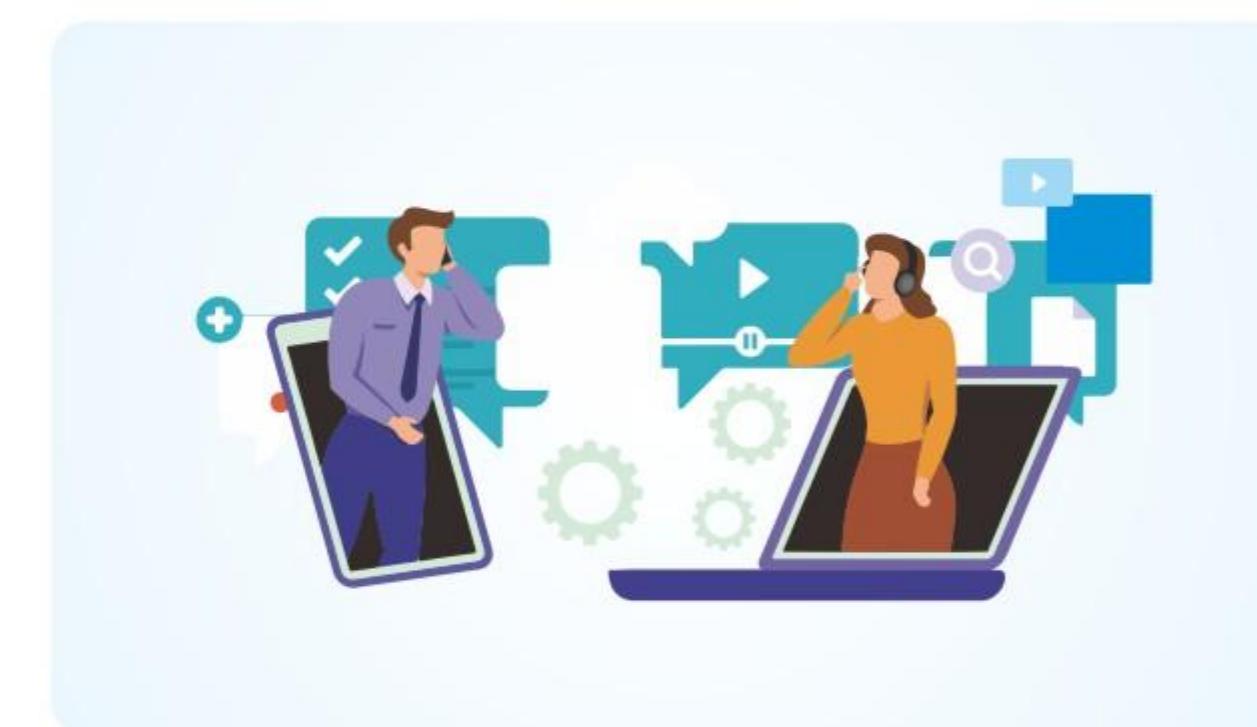
#### One-stop Project Service Capability

With over 30 years of extensive project experience, LASWIM provides comprehensive engineering services, including project planning, expert design, equipment supply, installation guidance, and intelligent operation and maintenance, reducing project costs and enhancing operational efficiency.



#### Technological Innovation & Digital Management

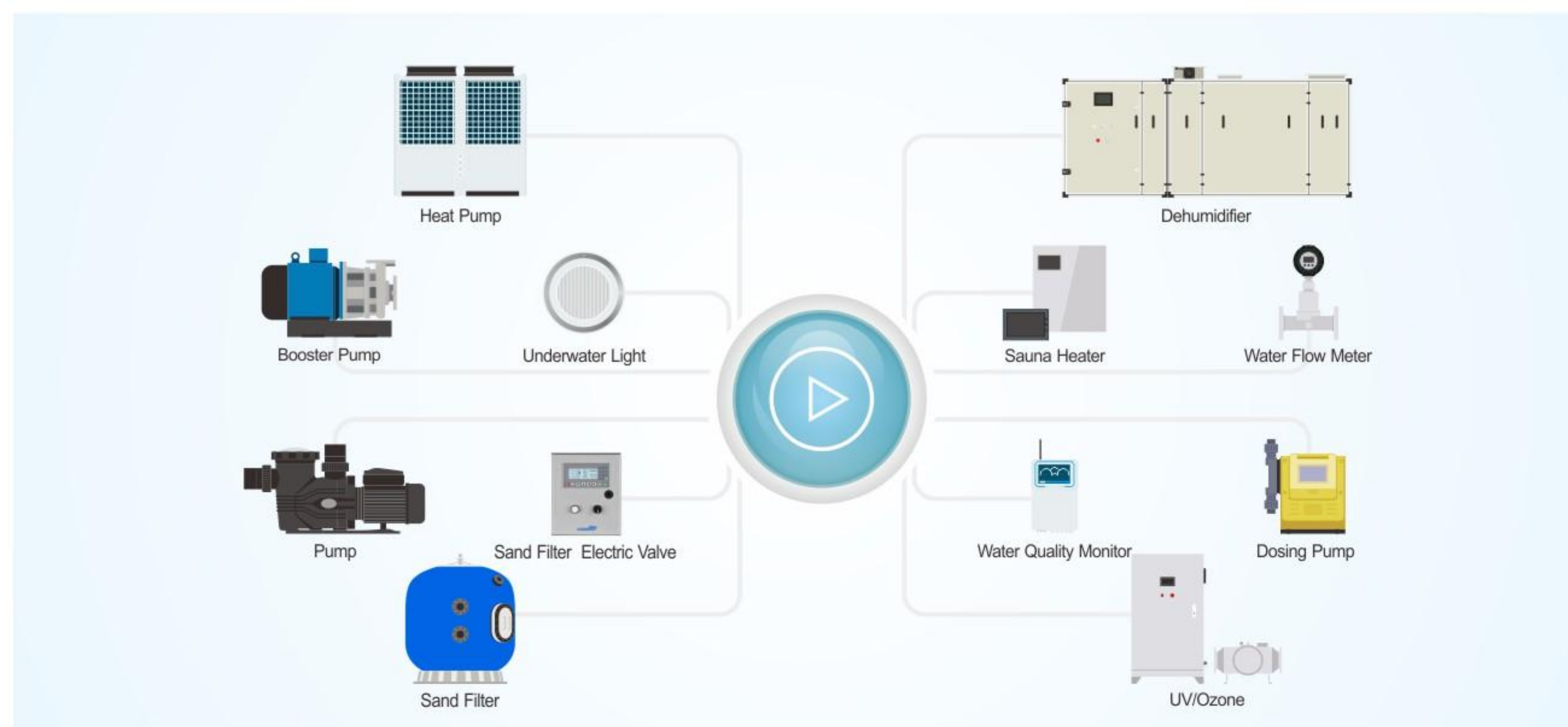
Through independent R&D and a digital cloud platform, LASWIM ensures intelligent, integrated equipment management, significantly reducing operation and maintenance costs and delivering reliable, energy-efficient water environment solutions.



#### Global Network & Online Support

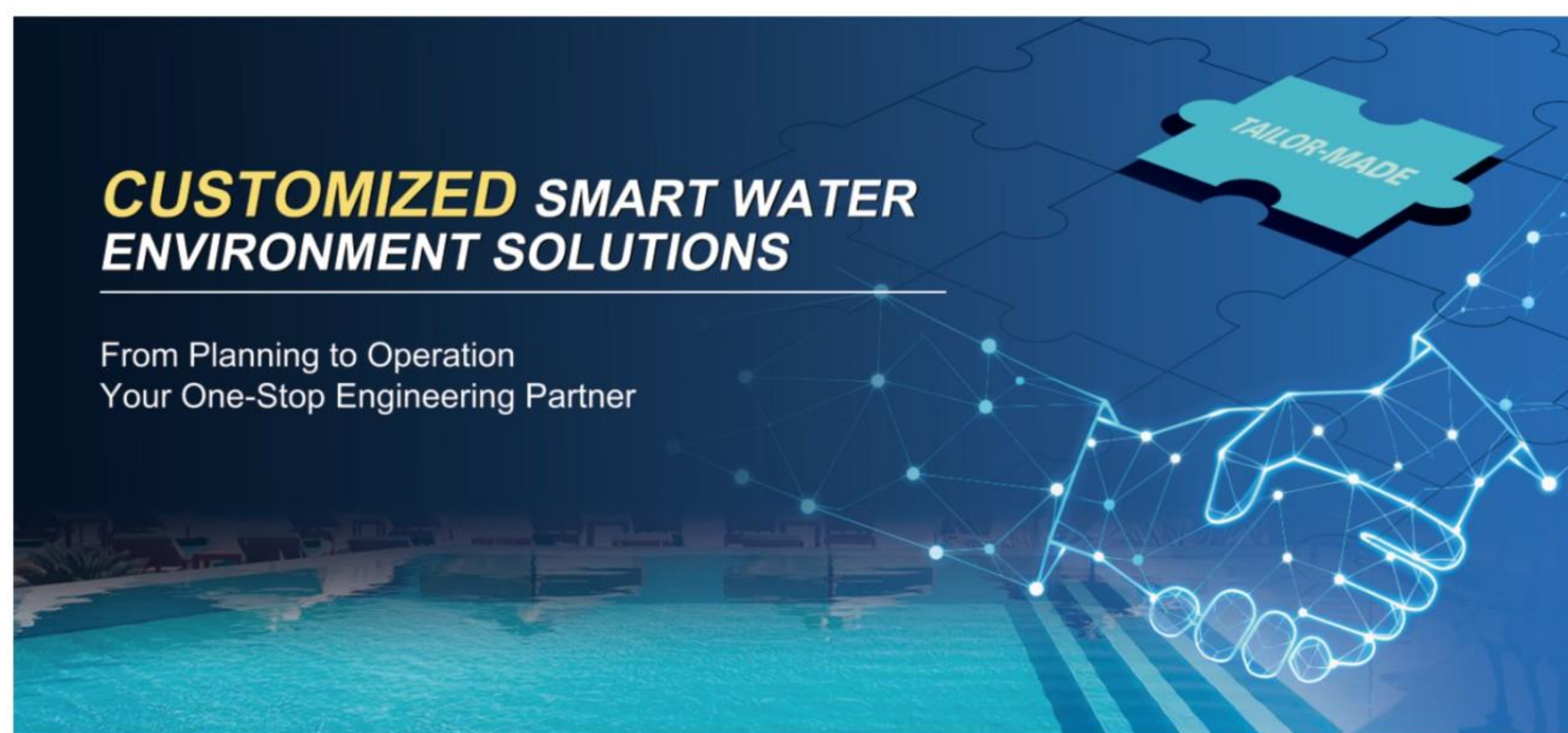
LASWIM maintains strong partnerships across Southeast Asia, the Middle East, Europe, and America, supported by a comprehensive online service system. We rapidly respond to local market needs with customized, region-specific solutions, ensuring convenient and efficient customer experiences throughout project implementation.

## SERVICE SCOPE



### Commercial Pool Equipment

LASWIM provides a comprehensive range of commercial pool equipment, including dehumidifier heat pumps, air-source heat pumps, filtration systems (pumps, sand filters, smart filtration), disinfection systems (AOP, UV, ozone, salt chlorinator), smart control systems, infinity pool systems, competition pool equipment, and spa & sauna facilities. These products are widely used in international competition pools, luxury hotels, cultural tourism projects, and professional life-support systems.



### Customized Smart Water Environment Solutions

Focusing on Southeast Asia and the Middle East, LASWIM offers large and medium-scale overseas projects a one-stop smart water environment solution, covering project planning & design, equipment supply, construction technical guidance, and intelligent operation & maintenance. Utilizing BIM technology and digital platforms, LASWIM achieves full lifecycle project management, helping clients improve efficiency, reduce costs, and ensure sustainable, smart, and energy-efficient operations of their projects.

## QUALIFICATIONS & HONORS



### Company Qualifications

ISO9001, ISO14001, ISO45001 Management System Certifications

China National Recognitions:

High-tech Enterprise

Innovative Enterprise

Specialized, Refined, Differential, and Innovative (SRDI) Enterprise

Engineering & Manufacturing qualifications:

Grade II Professional Contracting License for Building Electromechanical Installation

Grade-A Design & Manufacturing Licenses for Water Amusement Facilities, Fountain, Spa Systems, Water Treatment and Swimming pool

Industrial Construction Safety Production License

### Company Honors:

Main Equipment Supplier for the Youth Olympic Games, World University Games, European Youth Olympic Festival, and Asian Games Swimming Pool Projects

Supported by China's Ministry of Science & Technology Innovation Fund

Five-Star Member of China Swimming Association Equipment Committee

Contributor to over 10 industry standards, specifications, and technical manuals

### Product Certifications:

CE, TUV, KETI, CQC, ROHS, IP68, CCC

China Energy-Saving Product Certification, High-tech Product Certification

### Project Awards:

China Construction Engineering Luban Award (Top Quality Project)

China National Quality Engineering Award

Huaxia Construction Science & Technology Award

# COMMERCIAL POOL ENGINEERING SERVICES



## Ecological Planning

In-depth analysis of local environments to provide tailored ecological planning solutions  
Facilitating long-term sustainable operation and minimizing environmental risks



## Green Design

Designing efficient, eco-friendly solutions aimed at reducing energy consumption and environmental impact  
Utilizing digital and intelligent tools for flexibility and market adaptability  
Expert teams specializing in water treatment, environmental aesthetics, and electromechanical integration for optimal system integration



## Efficient Service

Global service network offering full lifecycle technical consultation and management training.  
Rapid and precise response to ensure efficient project operation



## Construction Guidance

With over 30 years of industry experience, we provide personalized, high-standard construction technical guidance and solutions tailored for Southeast Asia and Middle East.  
Professional guidance team with over 10 years average experience, highly skilled, flexible, and coordinated.  
Committed to technological innovation, we actively adopt advanced construction techniques, integrating green construction concepts with eco-friendly materials and energy-saving technologies.  
We enforce strict quality control throughout the entire project lifecycle-pre-construction,during construction, and post-construction-conducting risk analysis and preventive measures to ensure high-quality project delivery.

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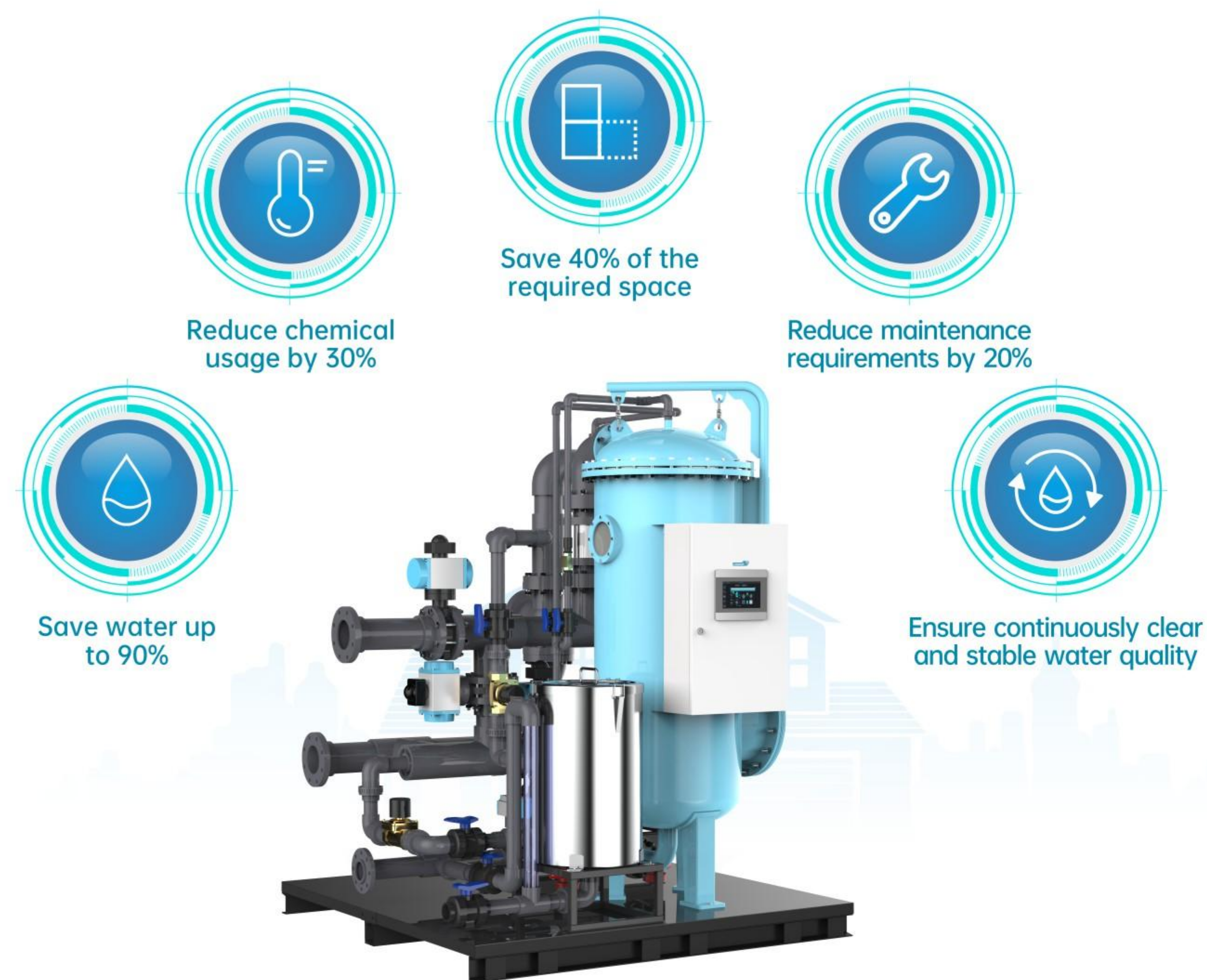
PROVIDING A HEALTHY AND COMFORTABLE WATER EXPERIENCE

SMARTER WATER FOR A  
SMARTER HOME

01

# POOL FILTERS





### Regenerative media filtration system · An All-in-One Premium Water Treatment Solution

The Regenerative media filtration system integrates high-precision filtration, intelligent automation, and eco-efficient technology into a single unit. Utilizing diatomaceous earth (DE) precoat membrane filtration, it delivers a filtration accuracy of 1–3µm, capturing over 99% of suspended solids, parasites (e.g., Cryptosporidium), and fine particles. The effluent turbidity remains stable at <0.1 NTU, significantly outperforming traditional sand filters, resulting in safer and cleaner water.



Equipped with a PLC smart control system, the unit automatically switches between precoat, filtration and regeneration modes, ensuring user-friendly operation and efficient performance.



Compatible with both diatomaceous earth and perlite, the system is highly adaptable for various water conditions. It is ideal for swimming pools, water parks, hot springs and upscale hospitality venues that demand stringent water quality.

### Product Features

- High-Precision Filtration for Ultra-Clean Water**  
 Uses DE precoat technology to achieve 1–3µm filtration with over 99% particle removal. Effluent turbidity <0.1 NTU, vastly superior to sand filters.
- Intelligent Control System for Easy Operation**  
 Integrated PLC system allows one-touch switching between precoat, filtration, and regeneration modes. Fully automated, no manual monitoring required.
- Regenerable Filter Media for Eco-Friendly Operation**  
 Supports reuse of DE and perlite, reducing replacement frequency and backwash water. Saves costs and promotes sustainability.
- Highly Integrated Design for Space Efficiency**  
 Combines pump, dosing tank, filter, and control system into a compact unit. Takes up only half the space of traditional systems for faster installation.
- Smart Load Adjustment for Enhanced Durability**  
 Automatically adjusts operation based on water quality and flow, optimizing energy use and extending filter media life.
- Ultra-Quiet Performance for Comfortable Environments**  
 Features a 4-pole low-noise pump and optimized flow design for noise reduction – ideal for high-end hotels and clubs.
- Water Hammer Protection for System Safety**  
 The soft starting/stopping technology prevents water hammer impact, protecting equipment and piping, and enhancing system stability and longevity.
- Multi-Media Compatibility for Greater Flexibility**  
 Works with a variety of filter media including DE and perlite, allowing flexible adaptation to different pool and spa water treatment needs.

### Comparison: Traditional Sand Filtration vs. Regenerative media filtration system

Comparison Item	Traditional Sand Filtration	Regenerative media filtration system
<b>Water Quality</b>	Less than <1 NTU	Stable and clear, turbidity <0.1 NTU
<b>Filter Media Options</b>	Silica sand, glass media	Compatible with diatomaceous earth, perlite, and other fine media
<b>Backwash Frequency</b>	1–2 times per week, lasting 6–7 minutes	Once every 2 weeks, lasting 1–2 minutes
<b>Backwash Intensity</b>	50 m/h	5 m/h
<b>Water Wastage</b>	High water consumption during backwash	Reduces backwash water by 90%
<b>Media Regeneration</b>	Not supported	Reusable filter media supported
<b>Maintenance Mode</b>	Primarily manual operation	One-button operation, fully automatic
<b>Footprint</b>	Large footprint	Integrated design, reduces space usage by 40%

### Technical Specifications

Model	Filter Diameter	Filter Area (m <sup>2</sup> )	Flow Rate (m <sup>3</sup> /h)	Pump Power (kW)	Operating Power (kW)			Inlet Size	Outlet Size	Drain Size	Product Dimensions (mm)
					Inverter Energy Saving Mode Day	Inverter Energy Saving Mode Night	Backwash Mode				
WL-HPF80	Φ650	15.3	46-77	7.5	5.5	4.5	7.5	DN200	DN125	DN80	1900×1900×2450
WL-HPF120	Φ800	23.65	71-118	11.0	8.0	6.6	11.0	DN250	DN150	DN100	2200×2100×2480
WL-HPF160	Φ900	30.47	91-152	15.0	10.9	9.0	15.0	DN250	DN150	DN125	2200×2200×2590
WL-HPF200	Φ1000	38.06	114-190	15.0	12.9	9.0	15.0	DN300	DN200	DN150	2700×2500×2730
WL-HPF280	Φ1200	54.75	173-274	22.0	18.9	13.2	22.0	DN300	DN200	DN150	2800×2600×2810
WL-HPF380	Φ1400	75.24	226-376	30.0	25.7	18.0	30.0	DN350	DN250	DN200	3450×3000×2985

# VSF VACUUM SAND FILTRATION SYSTEMS

## Overview

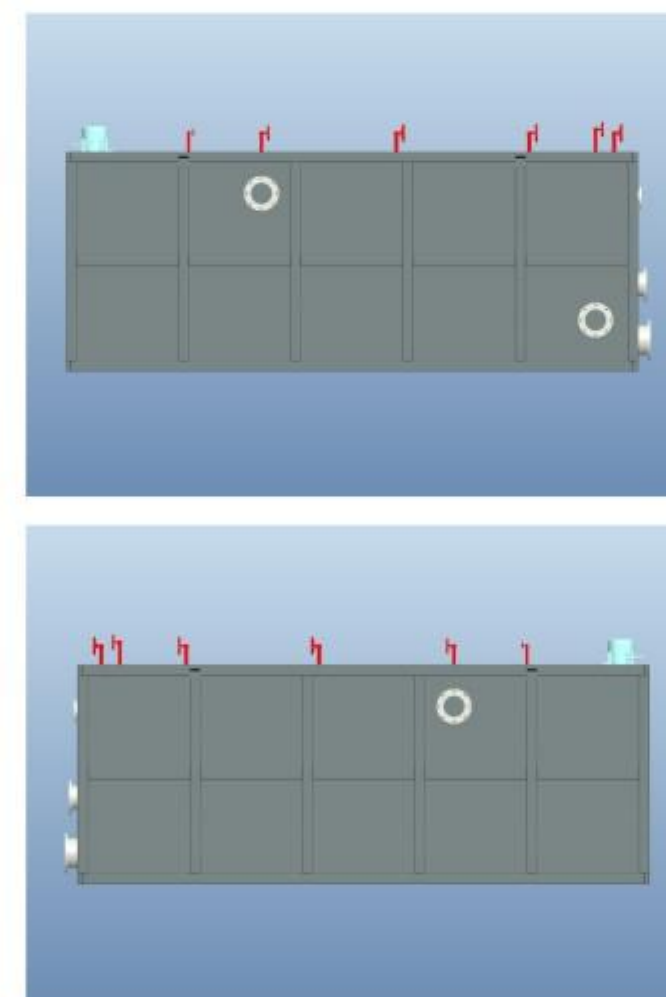
WL-VSF Vacuum Sand Filtration System is a compact filtration system, delivering a complete circulation, filtration, disinfection and all piping and valves required to control the water treatment. It is a high-efficiency, large capacity filtration system for new construction or renovation projects of public swimming pool, recreation swimming pool, water feature and water park. The tank of the filtration system is made of Stainless Steel and the entire system arrives prefabricated and ready for final connections.

The entire filtration system is designed and manufactured under controlled workshop conditions and is shipped to the project site as a complete unit. The preengineered system will largely reduce construction space and shorten construction time.



## Product Features

- Pre-engineered stainless steel construction, reduce construction space and construction time.
- Complete circulation, filtration and treatment systems.
- Precise control of filter flow rates
- Double pumps design, reduces electrical consumption by up to 80%
- Reduces water consumption by up to 80%
- Ideal for renovation or new construction.
- Economic and efficient for large facilities
- Guaranteed pool water clarity
- Easy operation and maintenance



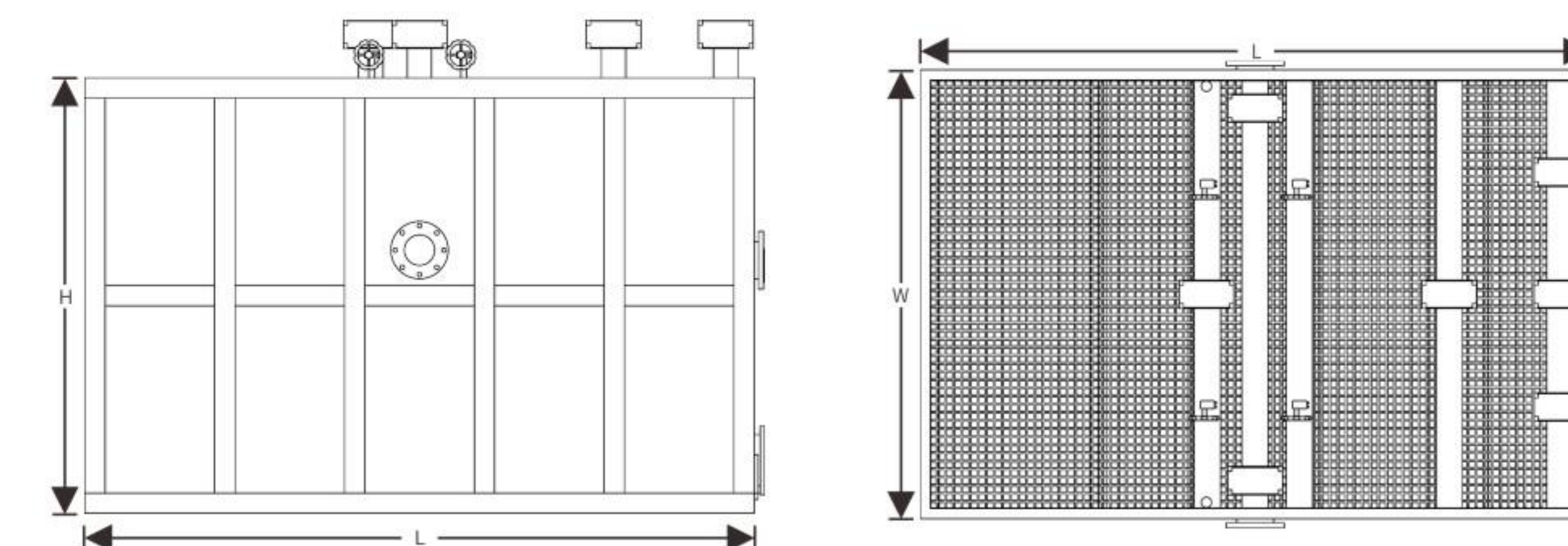
## Technical Parameter

Model	Filtration Area (m <sup>2</sup> )	Design flow (m <sup>3</sup> /hr)			Turnover Capacity (m <sup>3</sup> )		
		Filtration rate 20m <sup>3</sup> /hr/m <sup>2</sup>	Filtration rate 25m <sup>3</sup> /hr/m <sup>2</sup>	Filtration rate 35m <sup>3</sup> /hr/m <sup>2</sup>	3 hr	4 hr	5 hr
WL-VSF-3300	5.75	115.0			345.0	460.0	575.0
			143.8		431.4	575.2	719.0
				201.3	603.9	805.2	1006.5
WL-VSF-4500	8.06	161.2			483.6	644.8	806.3
			201.5		604.5	806.0	1007.5
				282.1	846.3	1128.4	1410.5
WL-VSF-5300	9.74	194.8			584.4	779.2	974.0
			243.5		730.5	974.0	1217.5
				340.9	1022.7	1363.0	1704.5
WL-VSF-6100	11.32	226.4			679.2	905.6	1132.0
			283.0		849.0	1132	1415.0
				396.2	1188.6	1584.8	1981.0
WL-VSF-6800	12.89	257.8			773.4	1031.2	1289.0
			322.3		966.8	1289	1611.3
				451.2	1353.5	1804.6	2255.8
WL-VSF-8000	15.20	304.0			912.0	1216.0	1520.0
			380.0		1140.0	1520.0	1900.0
				532.0	1596.0	2128.0	2660.0

### Note:

The tank is made of corrosion-resistant stainless steel or corrosion-resistant carbon steel. Equipped with a dedicated negative pressure shaft-coupled pump.

Media: Glass media or Quartz sand.



## Dimension

Model	Filtration Area (m <sup>2</sup> )	Length L(m)	Width W(m)	Height H(m)
WL-VSF-3300	5.75	3.3	2.3	2.15
WL-VSF-4500	8.06	4.5	2.3	2.15
WL-VSF-5300	9.74	5.3	2.3	2.15
WL-VSF-6100	11.32	6.1	2.3	2.15
WL-VSF-6800	12.89	6.8	2.3	2.15
WL-VSF-8000	15.20	8.0	2.3	2.15



# "ADG" SERIES FILTERS

Top mount sand vertical 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.

- 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 .



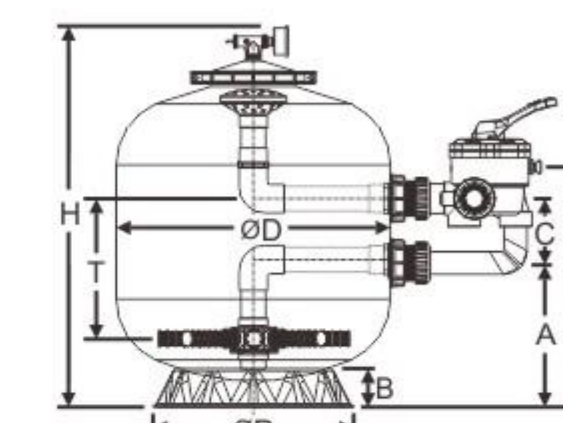
ΦD(mm)	350	410	450	535	635	710	750	800	900	1000	1100	1200	1400
H(mm)	750	770	830	870	970	1040	1120	1130	1270	1340	1460	1540	1750
A(mm)	490	510	570	610	710	780	820	830	970	1040	1160	1240	1450
B(mm)	75	75	75	75	95	95	95	150	150	150	180	180	180
M(mm)	600	620	680	720	820	890	962	973	1112	1182	1302	1392	1592
N(mm)	545	565	625	665	765	835	882	892	1032	1102	1222	1312	1512
ΦP(mm)	319	319	390	390	565	565	565	790	790	790	1010	1010	1010
T(mm)	150	160	220	260	370	450	490	490	500	520	570	650	850

Model	Pipe Size		Filter Area (m <sup>2</sup> )	Design Flow		0.5-0.8mm Sand Weight (kg)	Tank Volume (m <sup>3</sup> )	Valve Volume (m <sup>3</sup> )	Tank Diameter (mm)	Tank Height (mm)
	inches	mm		m <sup>3</sup> /h	lpm					
WL-ADG350	1.5	50	0.10	4.5	75	25	0.06	0.02	350	750
WL-ADG400	1.5	50	0.13	6.5	108	34	0.09	0.02	410	770
WL-ADG450	1.5	50	0.16	8.0	133	50	0.15	0.02	450	830
WL-ADG500	1.5	50	0.23	11.5	192	80	0.20	0.02	535	870
WL-ADG650	1.5	50	0.32	16.0	267	160	0.32	0.02	635	970
WL-ADG700	1.5	50	0.40	20.0	333	220	0.42	0.02	710	1040
WL-ADG750	2.0	63	0.44	22.0	367	230	0.44	0.03	750	1120
WL-ADG800	2.0	63	0.50	25.0	417	260	0.68	0.03	800	1130
WL-ADG900	2.0	63	0.64	30.0	533	400	0.95	0.03	900	1270
WL-ADG1000	2.0	63	0.79	35.0	645	600	1.29	0.03	1000	1340
WL-ADG1100	2.0	63	0.95	44.0	716	800	1.40	0.03	1100	1460
WL-ADG1200	2.0	63	1.13	50.0	850	920	2.26	0.03	1200	1540
WL-ADG1400	2.0	63	1.53	68.0	1133	1400	3.50	0.03	1400	1750

STANDARD: MAXIMUM WORKING PRESSURE: 36psi/2.5kg/cm<sup>2</sup> MAXIMUM OPERATING WATER TEMPERATURE≤50°C MAXIMUM TESTING PRESSURE:58psi/4.0kg/cm<sup>2</sup>  
 OPTIONAL: MAXIMUM WORKING PRESSURE: 58psi/4.0kg/cm<sup>2</sup>(WL-ADG750-1400) MAXIMUM OPERATING WATER TEMPERATURE≤50°C MAXIMUM TESTING PRESSURE:86psi/6.0kg/cm<sup>2</sup>

# "BCG" SERIES FILTERS

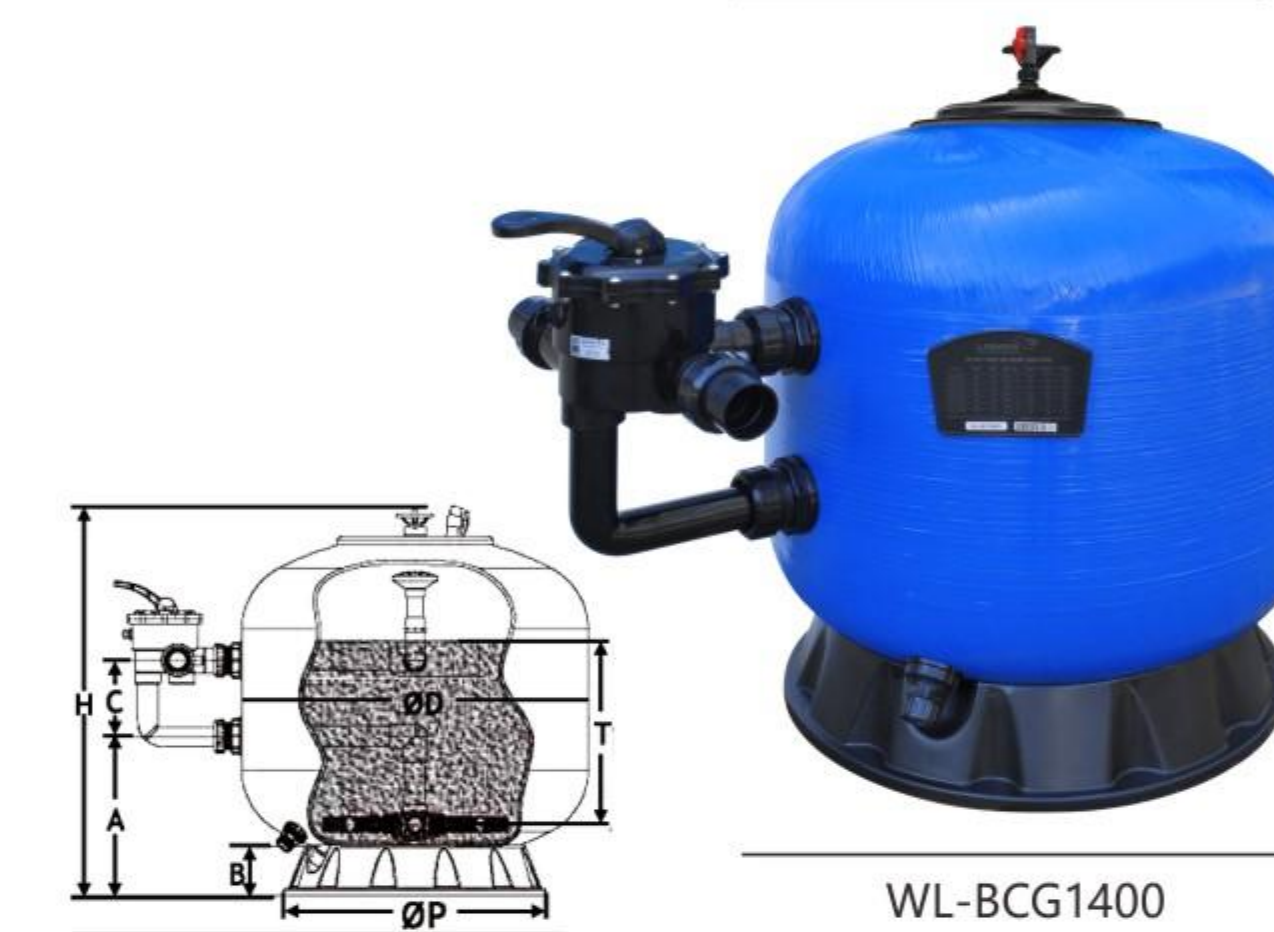
Side mount sand filters are built to be tougher, longer lasting and better performing. Constructed of polyester resin and non-corrosive fiberglass filament winding, all internal components and connections are injection molded PVC. They produce more filtered water with less pump horsepower. UV-resistance surface allows working under sunshine. Easy-to-use six-position valve makes you select any of the valve/filter operation in a proper way.



WL-BCG450~WL-BCG700



WL-BCG750~WL-BCG1200



WL-BCG1400

ΦD(mm)	450	535	635	710	750	800	900	1000	1100	1200	1400
H(mm)	670	710	810	880	980	1010	1100	1160	1260	1340	1570
A(mm)	260	290	310	360	385	385	430	540	540	540	700
B(mm)	75	75	95	90	120	150	150	150	180	180	180
C(mm)	125	125	125	125	220	220	220	220	220	220	220
M(mm)	440	460	490	540	680	680	725	835	835	835	---
ΦP(mm)	390	390	565	565	565	790	790	790	1010	1010	1010
T(mm)	250	280	300	350	400	420	480	510	560	600	630

Model	Pipe Size		Filter Area (m <sup>2</sup> )	Design Flow		0.5-0.8mm Sand Weight (kg)	Tank Volume (m <sup>3</sup> )	Valve Volume (m <sup>3</sup> )	Tank Diameter (mm)	Tank Height (mm)
	inches	mm		m <sup>3</sup> /h	lpm					
WL-BCG450	1.5	50	0.16	8.0	133	50	0.15	0.02	450	670
WL-BCG500	1.5	50	0.23	11.5	192	80	0.20	0.02	535	710
WL-BCG650	1.5	50	0.32	16.0	267	160	0.32	0.02	635	810
WL-BCG700	1.5	50	0.40	20.0	333	220	0.42	0.02	710	880
WL-BCG750	2.0	63	0.44	22.0	367	230	0.44	0.02	750	980
WL-BCG800	2.0	63	0.50	25.0	417	260	0.68	0.02	800	1010
WL-BCG900	2.0	63	0.64	30.0	533	400	0.92	0.02	900	1100
WL-BCG1000	2.0	63	0.79	35.0	645	600	1.48	0.02	1000	1160
WL-BCG1100	2.0	63	0.95	44.0	716	800	1.98	0.02	1100	1260
WL-BCG1200	2.0	63	1.13	50.0	850	920	2.42	0.02	1200	1340
WL-BCG1400	2.0	63	1.53	68.0	1133	1400	3.26	0.02	1400	1570

STANDARD: MAXIMUM WORKING PRESSURE: 36psi/2.5kg/cm<sup>2</sup> MAXIMUM OPERATING WATER TEMPERATURE≤50°C MAXIMUM TESTING PRESSURE:58psi/4.0kg/cm<sup>2</sup>  
 OPTIONAL: MAXIMUM WORKING PRESSURE: 58psi/4.0kg/cm<sup>2</sup>(WL-BCG750-1400) MAXIMUM OPERATING WATER TEMPERATURE≤50°C MAXIMUM TESTING PRESSURE:86psi/6.0kg/cm<sup>2</sup>

# COMMERCIAL DEEP BED SAND FILTER

It is made of high quality fiberglass which is chemical and sunlight resistance, and can be installed out-of-doors. Side Mount, easily for operating. It also can be feeded and mixed different filtrate medium ( Such as: Zeolite, Sand and Active carbon ) to make the water more clear. It is best choice for residential area and public water.

This filter can be with flange or valve  
 With Manhole, Sight glass, Collector arm.  
 Optional : Nozzle plate



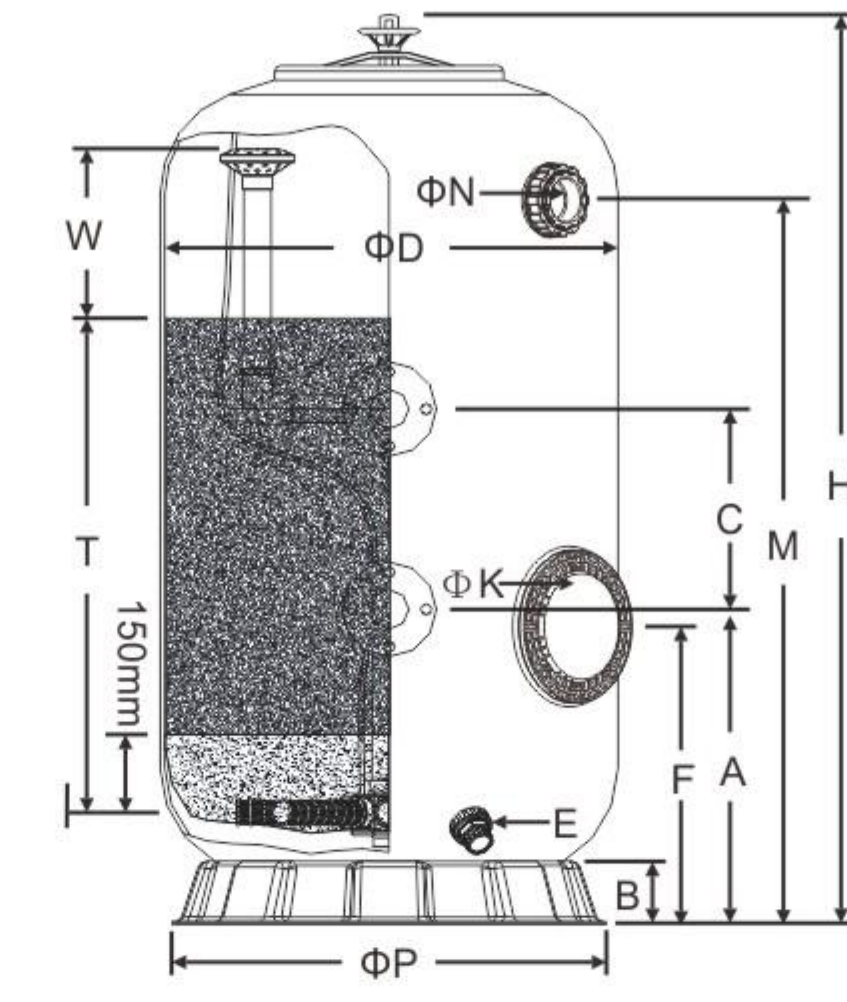
Collector Arms

Nozzle Plate

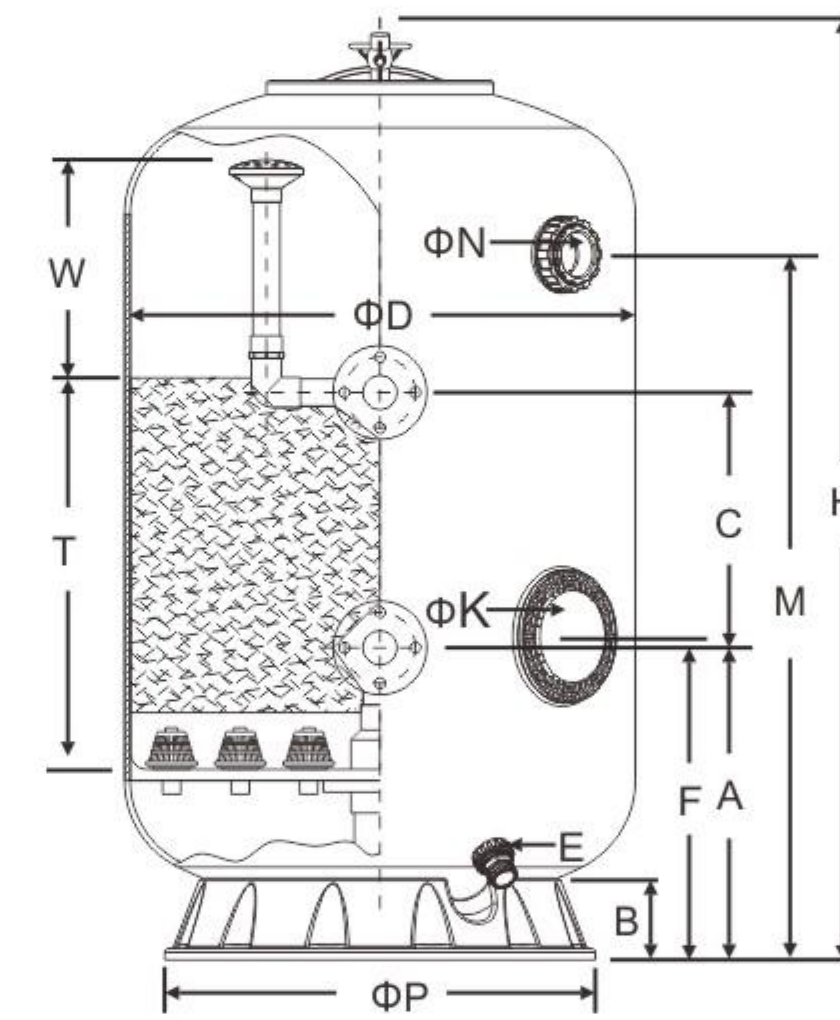


With Flange

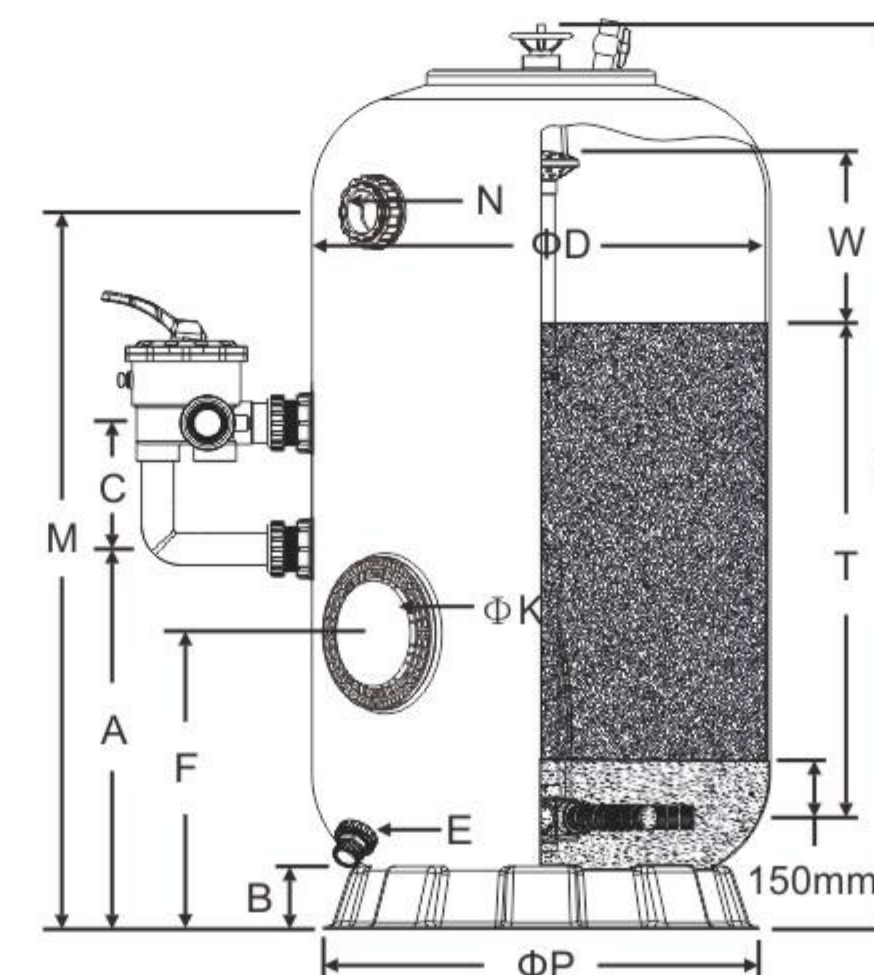
With Valve



With Lateral



With Nozzle Plate



With Valve

Model	15800	15900	151000	151200	20800	20900	201000	201200
D (mm)	800	900	1000	1200	800	900	1000	1200
H (mm)	1600	1600	1600	1600	2100	2100	2100	2100
A (mm)	550	550	550	650	800	800	800	800
B (mm)	150	150	150	180	150	150	150	180
C (mm)	350	350	350	350	350	350	350	350
E (mm)	40	40	40	40	40	40	40	40
F (mm)	520	520	520	600	520	520	520	600
K (mm)	180	180	180	180	180	180	180	180
M (mm)	1120	1120	1120	1120	1600	1600	1600	1600
N (mm)	80	80	80	80	80	80	80	80
P (mm)	790	790	790	1010	790	790	790	1010
T (mm)	800	800	800	800	1250	1250	1250	1250
W (mm)	350	350	350	350	400	400	400	400

Model	15800	15900	151000	151200	20800	20900	201000	201200
D (mm)	800	900	1000	1200	800	900	1000	1200
H (mm)	1600	1600	1600	1600	2100	2100	2100	2100
A (mm)	550	550	550	650	800	800	800	800
B (mm)	150	150	150	180	150	150	150	180
C (mm)	350	350	350	350	350	350	350	350
E (mm)	40	40	40	40	40	40	40	40
F (mm)	600	600	600	680	600	600	600	680
M (mm)	1120	1120	1120	1120	1600	1600	1600	1600
K (mm)	180	180	180	180	180	180	180	180
N (mm)	80	80	80	80	80	80	80	80
P (mm)	790	790	790	790	790	790	790	1010
T (mm)	800	800	800	800	1250	1250	1250	1250
W (mm)	160	160	160	160	160	160	160	160

Model	15800	15900	151000	151200	20800	20900	201000	201200
D (mm)	800	900	1000	1200	800	900	1000	1200
H (mm)	1600	1600	1600	1600	2100	2100	2100	2100
A (mm)	550	550	550	650	800	800	800	800
B (mm)	120	120	145	165	120	120	145	165
C (mm)	220	220	220	220	220	220	220	220
E (mm)	40	40	40	40	40	40	40	40
F (mm)	520	520	520	600	520	520	520	600
K (mm)	180	180	180	180	180	180	180	180
M (mm)	1120	1120	1120	1120	1600	1600	1600	1600
N (mm)	80	80	80	80	80	80	80	80
P (mm)	790	790	790	980	790	790	790	1010
T (mm)	800	800	800	800	1250	1250	1250	1250
W (mm)	350	350	350	350	400	400	400	400

Model	Connections		Filter Area (m <sup>2</sup> )	Design Flow		Sand Weight 0.5-0.8mm(kg)	Gravel Weight 1-2mm(kg)	Tank Diameter (mm)	Tank Height (mm)
	inches	mm		m <sup>3</sup> /h	lpm				
WL-ECG15800V	2	63	0.50	20.0	333	455	170	800	1600
WL-ECG15900V	2	63	0.64	25.6	426	585	230	900	1600
WL-ECG151000V	2	63	0.79	31.6	526	720	270	1000	1600
WL-ECG151200V	2	63	1.13	40.0	666	1030	450	1200	1600
WL-ECG151200V-2.5	2.5	75	1.13	45.2	753	1030	450	1200	1600
WL-ECG20800V	2	63	0.50	15.0	250	770	170	800	2100
WL-ECG20900V	2	63	0.64	19.0	317	990	230	900	2100
WL-ECG201000V	2	63	0.79	23.7	395	1220	270	1000	2100
WL-ECG201200V	2	63	1.13	30.0	500	1740	450	1200	2100
WL-ECG201200V-2.5	2.5	75	1.13	33.9	565	1740	450	1200	2100

**With Flange**

Model	Connections		Filter Area (m <sup>2</sup> )	Design Flow		Sand Weight 0.5-0.8mm(kg)	Gravel Weight 1-2mm(kg)	Tank Diameter (mm)	Tank Height (mm)
	inches	mm		m <sup>3</sup> /h	lpm				
WL-ECG15800F	2	63	0.50	20.0	333	455	170	800	1600
WL-ECG15900F	2	63	0.64	25.6	426	585	230	900	1600
WL-ECG151000F	2	63	0.79	31.6	526	720	270	1000	1600
WL-ECG151200F	3	90	1.13	45.2	753	1030	450	1200	1600
WL-ECG151400F	3	90	1.54	61.6	1026	1030	450	1400	1600
WL-ECG20800F	2	63	0.50	15.0	250	770	170	800	2100
WL-ECG20900F	2	63	0.64	19.0	317	990	230	900	2100
WL-ECG201000F	2	63	0.79	23.7	395	1220	270	1000	2100
WL-ECG201200F	3	90	1.13	33.9	565	1740	450	1200	2100
WL-ECG201400F	3	90	1.54	46.2	770	2100	500	1400	2100

**With Nozzle**

Model	Connections		Filter Area (m <sup>2</sup> )	Design Flow		Sand Weight 0.5-0.8mm(kg)	Gravel Weight 1-2mm(kg)	Tank Diameter (mm)	Tank Height (mm)
	inches	mm		m <sup>3</sup> /h	lpm				
WL-ECG15800	2	63	0.50	20.0	333	455	110	800	1600
WL-ECG15900	2	63	0.64	25.6	426	585	145	900	1600
WL-ECG151000	2	63	0.79	31.6	526	720	175	1000	1600
WL-ECG151200	3	90	1.13	45.2	753	1030	255	1200	1600
WL-ECG151400	3	90	1.54	61.6	1026	1100	320	1400	1600
WL-ECG20800	2	63	0.50	15.0	250	770	110	800	2100
WL-ECG20900	2	63	0.64	19.0	317	990	145	900	2100
WL-ECG201000	2	63	0.79	23.7	395	1220	175	1000	2100
WL-ECG201200	3	90	1.13	33.9	565	1740	255	1200	2100
WL-ECG201400	3	90	1.54	46.2	770	2100	320	1400	2100

STANDARD: MAXIMUM WORKING PRESSURE: 36psi/2.5kg/cm<sup>2</sup> MAXIMUM OPERATING WATER TEMPERATURE: ≤50°C MAXIMUM TESTING PRESSURE: 58psi/4.0kg/cm<sup>2</sup>  
 OPTIONAL: MAXIMUM WORKING PRESSURE: 58psi/4.0kg/cm<sup>2</sup> MAXIMUM OPERATING WATER TEMPERATURE: ≤50°C MAXIMUM TESTING PRESSURE: 86psi/6.0kg/cm<sup>2</sup>

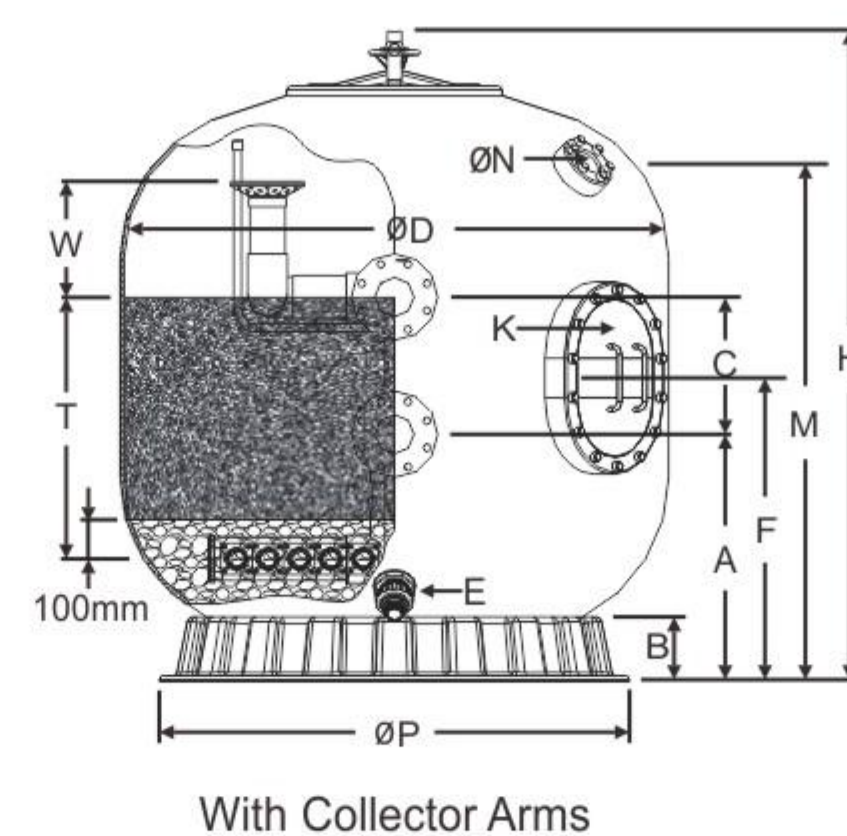
# COMMERCIAL HI-RATE SAND FILTERS

Superior engineering and a company-wide commitment to customer satisfaction have produced a series of vertical filters that are built to be tougher, longer lasting and better performing than any other competing vertical commercial hi-rate sand filter.

Constructed of polyester resin and non-corrosive fiberglass filament winding, all internal components and connections are injection molded PVC. UV-resistance surface allows working under sunshine.

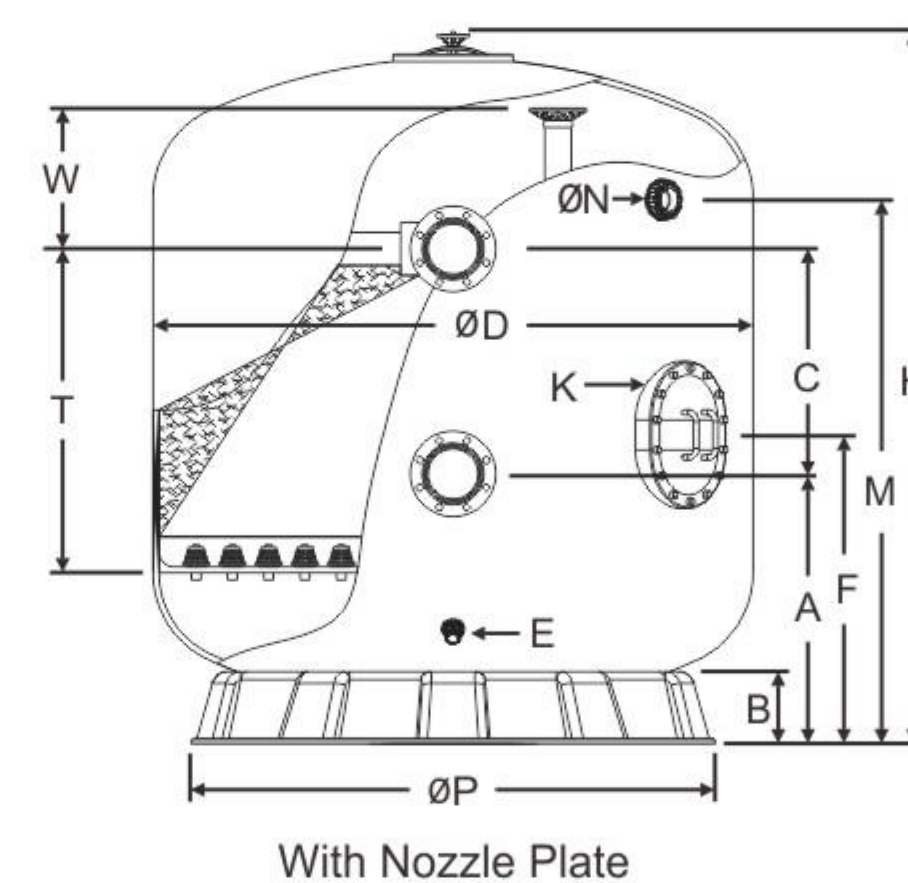


Optional: Sight glass, manhole, nozzle plate.



D (mm)	1200	1400	1600	1800	2000	2200	2300	2350	2500
H (mm)	1400	1600	1750	1950	2140	2350	2350	2350	2450
A (mm)	560	650	680	730	800	900	940	940	960
B (mm)	165	165	215	215	240	240	240	240	240
C (mm)	340	350	450	550	550	600	600	600	600
E (mm)	60	60	60	60	60	60	60	60	60
F (mm)	740	800	875	910	1050	1070	1070	1070	1100
K (mm)	180x180	400x300	400x300	400x300	400x300	400x300	400x300	400x300	400x300
M (mm)	1150	1250	1450	1650	1700	1750	1800	1800	1900
N (mm)	80	80	80	80	80	80	80	80	80
P (mm)	1010	1215	1450	1610	1800	1800	2010	2010	2010
T (mm)	600	700	800	850	900	1000	1000	1000	1050
W (mm)	300	300	320	320	350	400	400	400	400

Model	Filter Area (m <sup>2</sup> )	Flange Connections		Design Flow		0.4-0.8mm Sand Weight (kg)	1-2mm Gravel Weight (kg)	Tank Diameter (mm)	Tank Height (mm)
		inches	mm	m <sup>3</sup> /h	lpm				
WL-CCG1200	1.13	3	90	45	750	750	300	1200	1420
WL-CCG1400	1.54	4	110	61	1016	1200	500	1400	1670
WL-CCG1600	2.01	4	110	80	1333	1850	750	1600	1750
WL-CCG1800	2.54	6	160	101	1683	2500	1050	1800	1950
WL-CCG2000	3.14	6	160	125	2083	3300	1150	2000	2140
WL-CCG2200	3.80	6	160	152	2532	4150	1470	2200	2350
WL-CCG2300	4.15	8	200	166	2766	4900	1600	2300	2350
WL-CCG2500	4.90	8	200	196	3265	6000	2200	2500	2450
WL-CCG3000	7.07	8	200	282	4698	8600	3300	3000	2650



D (mm)	1420	1620	1830	2030	2300	2500
H (mm)	1900	2000	2100	2200	2350	2400
A (mm)	700	810	850	900	940	960
B (mm)	165	215	215	240	240	240
C (mm)	550	550	550	550	600	600
E (mm)	40	40	40	40	40	40
F (mm)	850	900	980	1030	1070	1100
K (mm)	400x300	400x300	400x300	400x300	400x300	400x300
M (mm)	1400	1500	1600	1700	1800	1900
N (mm)	80	80	80	80	80	80
P (mm)	1215	1450	1610	1800	2010	2010
T (mm)	1000	1000	1000	1000	1000	1050
W (mm)	300	320	320	350	400	400

Model	Filter Area (m <sup>2</sup> )	Flange Connections		Design Flow		0.4-0.8mm Sand Weight (kg)	1-2mm Gravel Weight (kg)	Tank Diameter (mm)	Tank Height (mm)
		inches	mm	m <sup>3</sup> /h	lpm				
WL-CCG1400	1.54	4	110	61	1016	1800	220	1420	1900
WL-CCG1600	2.01	4	110	80	1333	2300	300	1620	2000
WL-CCG1800	2.54	6	160	101	1683	2900	360	1830	2100
WL-CCG2000	3.14	6	160	125	2083	3600	440	2030	2200
WL-CCG2300	4.15	8	200	166	2766	4800	580	2300	2350
WL-CCG2500	4.90	8	200	196	3265	5700	680	2500	2400
WL-CCG3000	7.07	8	200	282	4698	8250	980	3000	2650

STANDARD: MAXIMUM WORKING PRESSURE: 36psi/2.5kg/cm<sup>2</sup> MAXIMUM OPERATING WATER TEMPERATURE: ≤50°C MAXIMUM TESTING PRESSURE: 58psi/4.0kg/cm<sup>2</sup>  
 OPTIONAL: MAXIMUM WORKING PRESSURE: 58psi/4.0kg/cm<sup>2</sup> MAXIMUM OPERATING WATER TEMPERATURE: ≤50°C MAXIMUM TESTING PRESSURE: 86psi/6.0kg/cm<sup>2</sup>

# HORIZONTAL SAND FILTERS

Horizontal sand filters are made of polyester reinforced with fiberglass; they are totally anti-corrosive, and have high mechanical, chemical and thermal resistance, higher quality water is achieved with their greater filtering capacity. Indexes of turbidity and contaminants of the filtered water are reduced due to their increased retention capacity. The time between back washes increases proportionally with the height of the filter bed, meaning there are fewer interruptions in filtration, and lower water consumption, because the number of back washes needed is decreased and there is less erosion of the filtering material.

A horizontal filter is the ideal choice in cases where a great volume of water is to be treated, and in cases which require optimization of the available space, as a single horizontal filter can substitute up to 3 vertical filters of the same diameter simply by increasing its length.



Collector Arms

Top Diffuser

Cover Lid

Sand Drain

Pressure Control Manometer Panel



Φ1200mm											
Model	L Length (mm)	Flow rate (m³/h/m²)	Flange Connections		Design Flow		Filter Area (m²)	0.4-0.8mm Sand Weight (kg)	1-2mm Gravel Weight (kg)	Tank Diameter (mm)	Tank Height (mm)
			inches	mm	m³/h	lpm					
WL-HF121900	1900	20	3"	90	39	650	1.96	1100	430	1200	1390
		30	4"	110	59	983					
		40	6"	160	79	1317					
WL-HF122300	2300	20	4"	110	48	800	2.42	1430	550	1200	1390
		30	6"	160	73	1217					
		40	6"	160	97	1617					
WL-HF122500	2500	20	4"	110	53	883	2.65	1750	700	1200	1390
		30	6"	160	79	1317					
		40	6"	160	106	1767					
WL-HF122700	2700	20	4"	110	57	950	2.87	2080	830	1200	1390
		30	6"	160	86	1433					
		40	6"	160	115	1917					
WL-HF123000	3000	20	4"	110	64	1067	3.21	2330	925	1200	1390
		30	6"	160	96	1600					
		40	6"	160	129	2150					

Φ1400mm											
Model	L Length (mm)	Flow rate (m³/h/m²)	Flange Connections		Design Flow		Filter Area (m²)	0.4-0.8mm Sand Weight (kg)	1-2mm Gravel Weight (kg)	Tank Diameter (mm)	Tank Height (mm)
			inches	mm	m³/h	lpm					
WL-HF141900	1900	20	4"	110	45	750	2.23	2000	580	1400	1600
		30	4"	110	67	1117					
		40	6"	160	89	1483					
WL-HF142500	2500	20	4"	110	60	1000	3.02	2750	800	1400	1600
		30	6"	160	91	1517					
		40	6"	160	121	2017					
WL-HF143000	3000	20	6"	160	73	1217	3.67	3375	1000	1400	1600
		30	6"	160	110	1833					
		40	6"	160	147	2450					

Φ1600mm											
Model	L Length (mm)	Flow rate (m³/h/m²)	Flange Connections		Design Flow		Filter Area (m²)	0.4-0.8mm Sand Weight (kg)	1-2mm Gravel Weight (kg)	Tank Diameter (mm)	Tank Height (mm)
			inches	mm	m³/h	lpm					
WL-HF161900	1900	20	4"	110	49	817	2.47	2800	600	1600	1830
		30	6"	160	74	1233					
		40	6"	160	99	1650					
WL-HF162500	2500	20	4"	110	67	1117	3.36	3800	850	1600	1830
		30	6"	160	101	1683					
		40	6"	160	134	2233					
WL-HF163000	3000	20	6"	160	82	1367	4.10	4700	1050	1600	1830
		30	6"	160	123	2050					
		40	8"	200	164	2733					

Φ1800mm											
Model	L Length (mm)	Flow rate (m³/h/m²)	Flange Connections		Design Flow		Filter Area (m²)	0.4-0.8mm Sand Weight (kg)	1-2mm Gravel Weight (kg)	Tank Diameter (mm)	Tank Height (mm)
			inches	mm	m³/h	lpm					
WL-HF182500	2500	20	6"	160	75	1250	3.74	4850	980	1800	2050
		30	6"	160	112	1867					
		40	6"	160	150	2500					
WL-HF183000	3000	20	6"	160	92	1533	4.58	5930	1230	1800	2050
		30	6"	160	137	2283					
		40	8"	200	183	3050					
WL-HF183500	3500	20	6"	160	108	1800	5.41	7000	1480	1800	2050
		30	8"	200	162	2700					
		40	8"	200	216	3600					
WL-HF184000	4000	20	6"	160	125	2083	6.25	8080	1700	1800	2050
		30	8"	200	187	3117					
		40	10"	250	250	4167					

STANDARD: MAXIMUM WORKING PRESSURE: 36psi/2.5kg/cm² MAXIMUM OPERATING WATER TEMPERATURE: ≤50°C MAXIMUM TESTING PRESSURE: 58psi/4.0kg/cm²  
 OPTIONAL: MAXIMUM WORKING PRESSURE: 58psi/4.0kg/cm² MAXIMUM OPERATING WATER TEMPERATURE: ≤50°C MAXIMUM TESTING PRESSURE: 86psi/6.0kg/cm²

# HORIZONTAL SAND FILTERS

Φ2000mm											
Model	L Length (mm)	Flow rate (m³/h/m²)	Flange Connections		Design Flow		Filter Area (m²)	0.4-0.8mm Sand Weight (kg)	1-2mm Gravel Weight (kg)	Tank Diameter (mm)	Tank Height (mm)
			inches	mm	m³/h	lpm					
WL-HF202500	2500	20	6"	160	87	1450	4.34	6000	1050	2000	2200
		30	6"	160	130	2167					
		40	8"	200	174	2900					
WL-HF203000	3000	20	6"	160	106	1767	5.30	7450	1300	2000	2200
		30	6"	160	159	2650					
		40	8"	200	212	3533					
WL-HF203500	3500	20	6"	160	125	2083	6.25	8900	1550	2000	2200
		30	8"	200	187	3117					
		40	8"	200	250	4167					
WL-HF204000	4000	20	6"	160	144	2400	7.21	10350	1800	2000	2200
		30	8"	200	216	3600					
		40	10"	250	288	4800					
WL-HF204500	4500	20	8"	200	163	2717	8.16	11800	2080	2000	2200
		30	8"	200	245	4083					
		40	10"	250	326	5433					

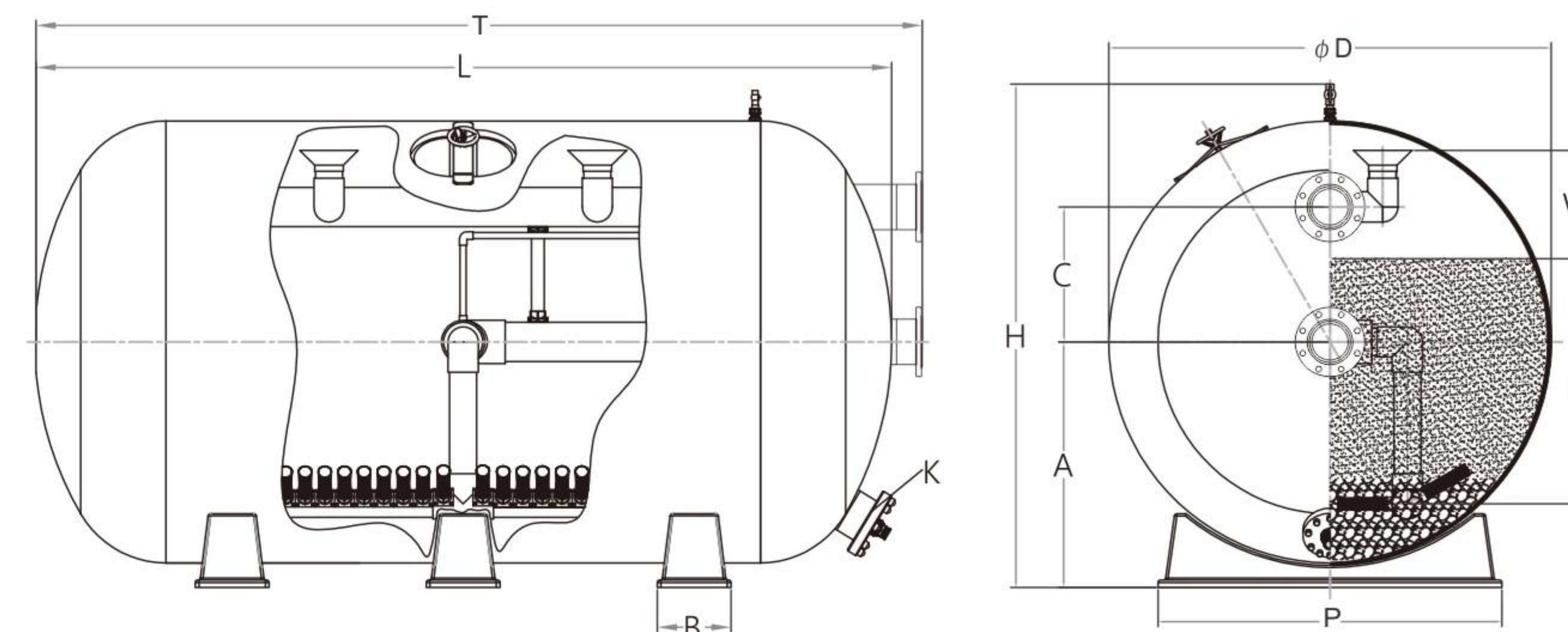
Φ2350mm											
Model	L Length (mm)	Flow rate (m³/h/m²)	Flange Connections		Design Flow		Filter Area (m²)	0.4-0.8mm Sand Weight (kg)	1-2mm Gravel Weight (kg)	Tank Diameter (mm)	Tank Height (mm)
			inches	mm	m³/h	lpm					
WL-HF234000	4000	20	8"	200	163	2717	8.17	12800	3650	2350	2560
		30	8"	200	245	4083					
		40	10"	250	327	5450					
WL-HF234500	4500	20	8"	200	186	3100	9.28	14525	4200	2350	2560
		30	10"	250	279	4650					
		40	10"	250	371	6183					
WL-HF235000	5000	20	8"	200	208	3467	10.40	16250	4750	2350	2560
		30	10"	250	312	5200					
		40	10"	315	416	6933					
WL-HF236000	6000	20	8"	200	253	4217	12.63	19700	5850	2350	2560
		30	10"	250	379	6317					
		40	12"	315	505	8417					
WL-HF237000	7000	20	10"	250	297	4950	14.86	23150	6950	2350	2560
		30	12"	315	446	7433					
		40	12"	315	594	9900					

Φ2500mm											
Model	L Length (mm)	Flow rate (m³/h/m²)	Flange Connections		Design Flow		Filter Area (m²)	0.4-0.8mm Sand Weight (kg)	1-2mm Gravel Weight (kg)	Tank Diameter (mm)	Tank Height (mm)
			inches	mm	m³/h	lpm					
WL-HF254000	4000	20	8"	200	172	2867	8.62	13500	3725	2500	2710
		30	8"	200	258	4300					
		40	10"	250	345	5750					
WL-HF254500	4500	20	8"	200	196	3267	9.80	15350	4300	2500	2710
		30	10"	250	294	4900					
		40	10"	250	392	6533					
WL-HF255000	5000	20	8"	200	220	3667	10.98	17200	4850	2500	2710
		30	10"	250	329	5483					
		40	12"	315	439	7317					
WL-HF256000	6000	20	8"	200	267	4450	13.34	20900	5975	2500	2710
		30	10"	250	400	6667					
		40	12"	315	533	8883					
WL-HF257000	7000	20	10"	250	314	5233	15.70	24600	7100	2500	2710
		30	12"	315	471	7850					
		40	12"	315	628	10467					

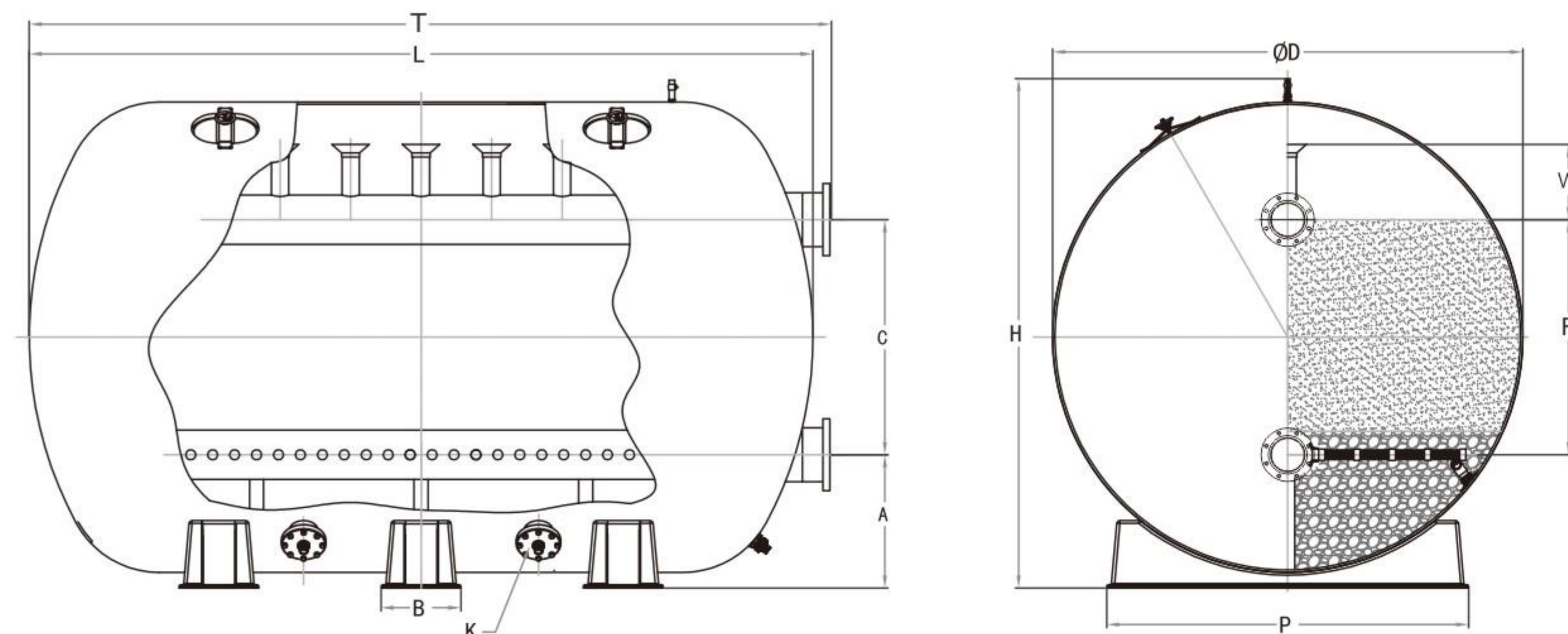
Φ3000mm											
Model	L Length (mm)	Flow rate (m³/h/m²)	Flange Connections		Design Flow		Filter Area (m²)	0.4-0.8mm Sand Weight (kg)	1-2mm Gravel Weight (kg)	Tank Diameter (mm)	Tank Height (mm)
			inches	mm	m³/h	lpm					
WL-HF305000	5000	20	8"	200	265	4417	13.24	26300	6875	3000	3230
		30	10"	250	397	6617					
		40	12"	315	530	8833					
WL-HF306000	6000	20	10"	250	322	5367	16.08	31920	8450	3000	3230
		30	12"	315	482	8033					
		40	12"	315	643	10717					
WL-HF307000	7000	20	10"	250	378	6300	18.92	37545	10025	3000	3230
		30	12"	315	568	9460					
		40	12"	315	756	12600					
WL-HF308000	8000	20	12"	315	435	7250	21.76	43170	11600	3000	3230
		30	12"	315	653	10883					
		40	14"	355	870	14500					



Model	L (mm)	H (mm)	A (mm)	B (mm)	C (mm)	T (mm)	P (mm)	K (mm)	W (mm)	F (mm)
Φ1200mm										
WL-HF121900	1900	1390	725	250	340	2050	900	180	225	550
WL-HF122300	2300	1390	725	250	340	2450	900	180	225	550
WL-HF122500	2500	1390	725	250	340	2650	900	180	225	550
WL-HF122700	2700	1390	725	250	340	2850	900	180	225	550
WL-HF123000	3000	1390	725	250	340	3150	900	180	225	550
Φ1400mm										
WL-HF141900	1900	1600	810	300	400	2150	960	110	225	750
WL-HF142500	2500	1600	810	300	400	2650	960	110	225	750
WL-HF143000	3000	1600	810	300	400	3150	960	110	225	750
Φ1600mm										
WL-HF161900	1900	1830	925	300	450	2100	1230	110	250	950
WL-HF162500	2500	1830	925	300	450	2700	1230	110	250	950
WL-HF163000	3000	1830	925	300	450	3200	1230	110	250	950
Φ1800mm										
WL-HF182500	2500	2050	1040	300	550	2700	1380	180	300	1000
WL-HF183000	3000	2050	1040	300	550	3200	1380	180	300	1000
WL-HF183500	3500	2050	1040	300	550	3700	1380	180	300	1000
WL-HF184000	4000	2050	1040	300	550	4200	1380	180	300	1000
Φ2000mm										
WL-HF202500	2500	2220	1090	330	550	2730	1490	160	400	1100
WL-HF203000	3000	2220	1090	330	550	3230	1490	160	400	1100
WL-HF203500	3500	2220	1090	330	550	3730	1490	160	400	1100
WL-HF204000	4000	2220	1090	330	550	4230	1490	160	400	1100
WL-HF204500	4500	2220	1090	330	550	4730	1490	160	400	1100

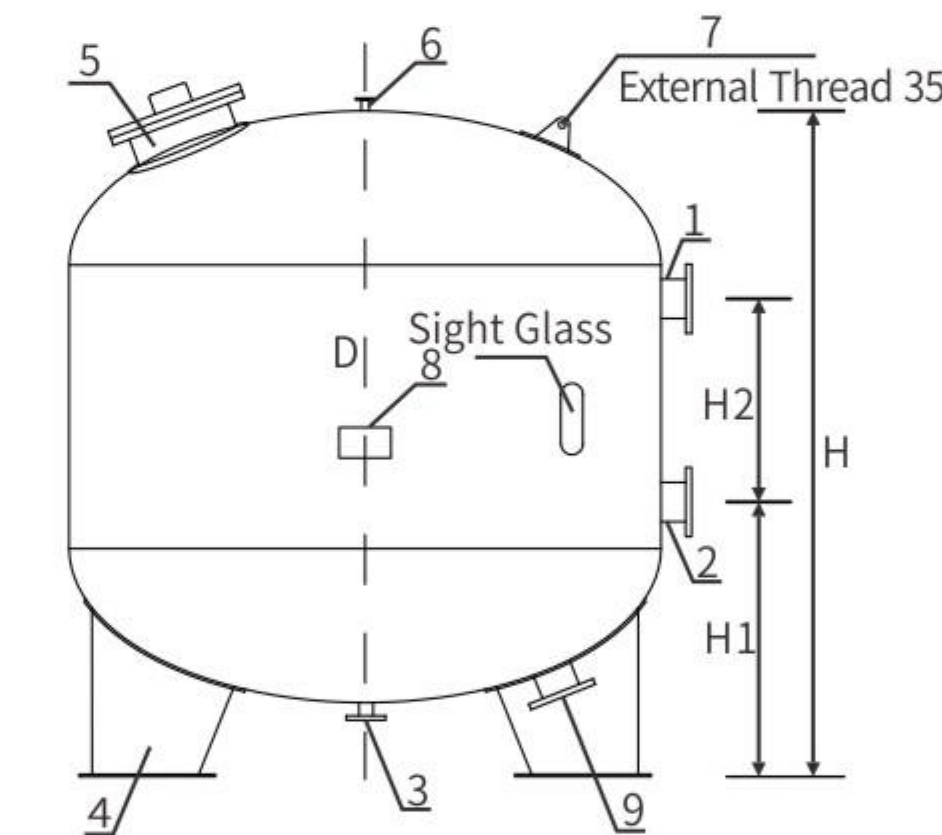
# HORIZONTAL SAND FILTERS

# VERTICAL STAINLESS STEEL SAND FILTER



- Made of high quality stainless steel, can be used in both sea and fresh water.
- Excellent chemical corrosion resistance.
- Unique water distributor and collector to form a balanced water flow, high water treatment efficiency.
- Strong cylinder body, long service life, durable.
- High temperature and pressure resistance performance.
- Can be customised according to customers' requirements in specifications.

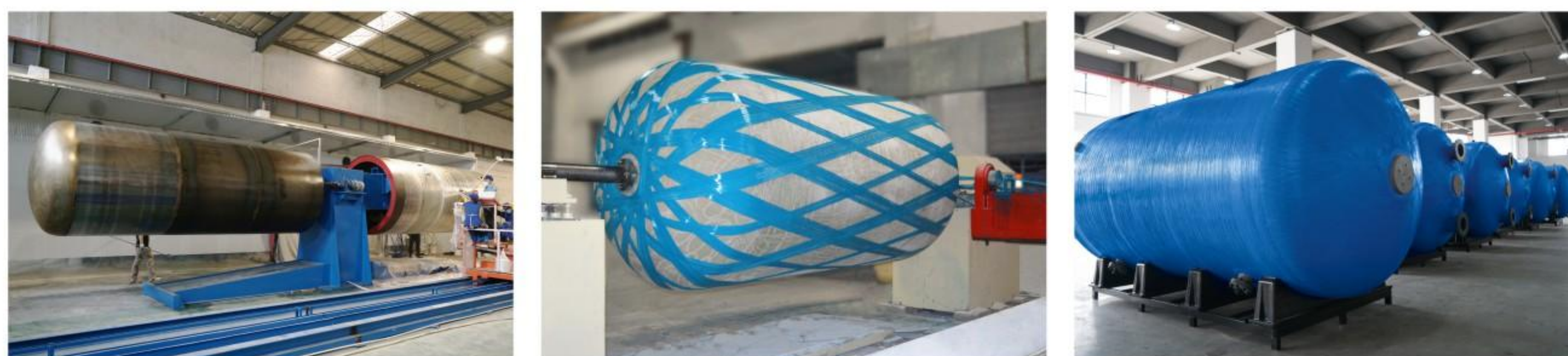
Model	L (mm)	H (mm)	A (mm)	B (mm)	C (mm)	T (mm)	P (mm)	K(mm)	W(mm)	F(mm)
<b>Φ2350mm</b>										
WL-HF234000	4000	2560	1270	300	710	4380	1750	160	500	1000-1200
WL-HF234500	4500	2560	1270	300	710	4880	1750	160	500	1000-1200
WL-HF235000	5000	2560	1270	300	710	5440	1750	160	500	1000-1200
WL-HF236000	6000	2560	720	300	1350	6110	1750	160	500	1000-1200
WL-HF237000	7000	2560	720	300	1350	7110	1750	160	500	1000-1200
<b>Φ2500mm</b>										
WL-HF254000	4000	2710	1360	450	710	4380	1900	160	500	1000-1200
WL-HF254500	4500	2710	1360	450	710	4940	1900	160	500	1000-1200
WL-HF255000	5000	2710	1360	450	710	5440	1900	160	500	1000-1200
WL-HF256000	6000	2710	625	450	1400	6110	1900	160	500	1000-1200
WL-HF257000	7000	2710	625	450	1400	7110	1900	160	500	1000-1200
<b>Φ3000mm</b>										
WL-HF305000	5000	3230	900	510	1500	5110	2310	160	550	1000-1200
WL-HF306000	6000	3230	900	510	1500	6110	2310	160	550	1000-1200
WL-HF307000	7000	3230	900	510	1500	7110	2310	160	550	1000-1200
WL-HF308000	8000	3230	900	510	1500	8110	2310	160	550	1000-1200



Code No.	Description	Filtration rate	≤25m/h
1	Inlet	<b>Design pressure</b>	0.6Mpa
2	Outlet	<b>Backwash pressure differential</b>	0.06Mpa
3	Drain for water	<b>Backwash intensity</b>	12-15L/s.m <sup>2</sup>
4	Support Bracket	<b>Media</b>	quartz sand
5	Manhole	<b>Size</b>	0.5-0.8mm
6	Air Release valve	<b>Filter bed depth</b>	700mm
7	Lifting Eye		
8	Specification label		
9	Sewage outlet		

Model	Max. Working pressure	D (mm)	H (mm)	H1 (mm)	H2 (mm)	Filter Area (m <sup>2</sup> )	Inlet Dia. DN(mm)	Outlet Dia. DN(mm)	Manhole DN(mm)
WL-LSSG800	0.6Mpa	800	1500	1150	650	0.5	65	65	400
WL-LSSG900		900	1550	1150	700	0.63	65	65	400
WL-LSSG1000		1000	1600	1150	750	0.72	80	80	400
WL-LSSG1100		1100	1650	1200	750	0.95	80	80	400
WL-LSSG1200		1200	1750	1250	750	1.13	100	100	400
WL-LSSG1400		1400	2000	1460	750	1.53	100	100	400
WL-LSSG1600		1600	2050	1500	800	2.04	125	125	400
WL-LSSG1800		1800	2100	1540	850	2.54	150	150	400
WL-LSSG2000		2000	2150	1500	950	3.14	150	150	400
WL-LSSG2000		2000	2650	2000	950	3.14	150	150	400
WL-LSSG2200		2200	2730	2030	1000	3.8	200	200	400
WL-LSSG2400		2400	2850	2050	1050	4.52	200	200	400
WL-LSSG2600		2600	3000	2150	1100	5.31	200	200	400

Max. Working pressure : 0.6Mpa/86psi/6.0kg/cm<sup>2</sup>

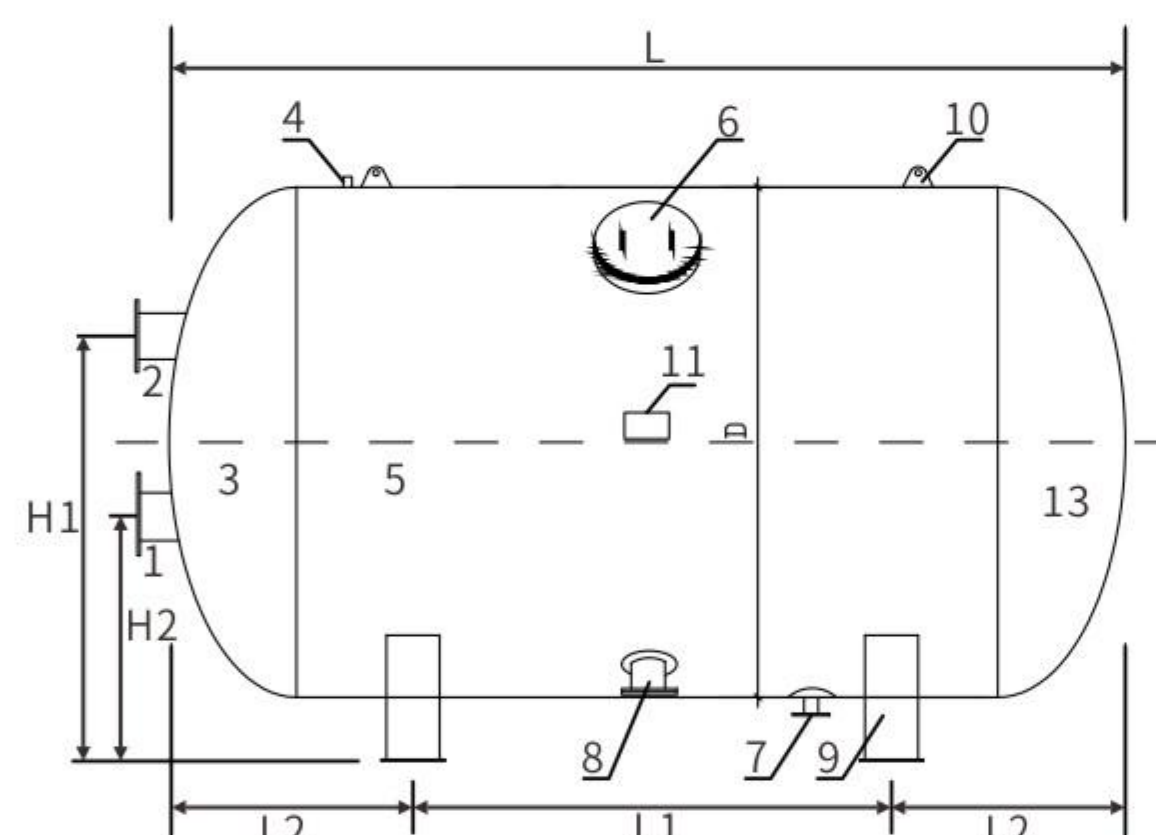


## HORIZONTAL STAINLESS STEEL SAND FILTER

- Made of high quality stainless steel, can be used in both sea and fresh water.
- Excellent chemical corrosion resistance
- Unique water distributor and collector to form a balanced water flow, high water treatment efficiency.
- Strong cylinder body, long service life, durable.
- High temperature and pressure resistance performance.
- Can be customised according to customers' requirements in specifications.



Code No.	Description		
1	Outlet	Filtration rate	≤25m/h
2	Inlet	Design pressure	0.6Mpa
3	Front head	Backwash pressure differential	0.06Mpa
4	Air release valve	Backwash intensity	12-15L/s.m <sup>2</sup>
5	Tank	Media	quartz sand
6	Manhole	Size	0.5-0.8mm
7	Sewage outlet	Filter bed depth	700mm
8	Drain for sand		
9	Support Bracket		
10	Lifting Eye		
11	Specification label		
12	Pressure Vessel Nameplate		
13	Back head		



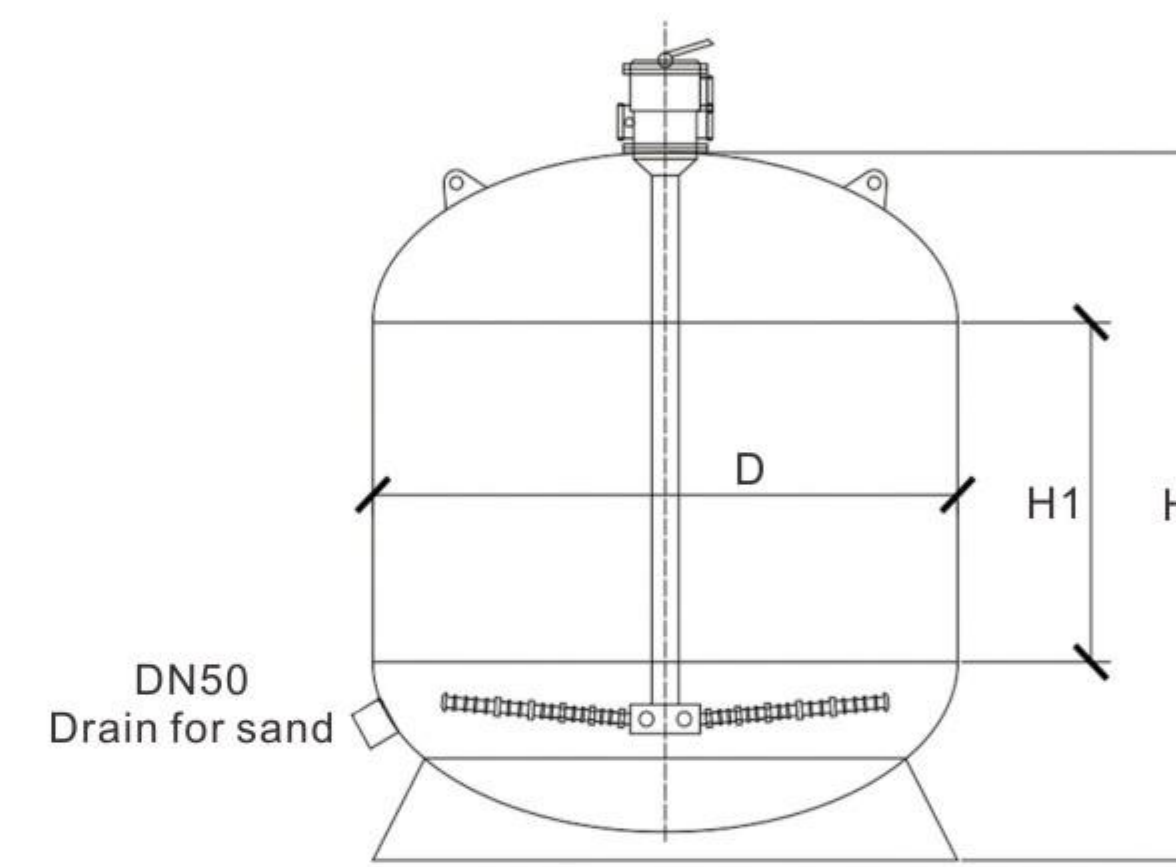
Model	Max. Working pressure	D (mm)	L (mm)	Filter Area (m <sup>2</sup> )	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	Inlet Dia. DN(mm)	Outlet Dia. DN(mm)	Manhole DN(mm)
WL-WSSG2235	0.6 Mpa	2200	3500	6.53	1500	965	2500	1750	1050	200-250	200-250	400
WL-WSSG2240		2200	4000	7.52	2000	965	2500	1750	1050	200-250	200-250	400
WL-WSSG2245		2200	4500	8.51	2500	1005	2500	1750	1050	200-250	200-250	400
WL-WSSG2440		2400	4000	8.16	1990	1005	2700	1850	1100	200-250	200-250	400
WL-WSSG2445		2400	4500	9.24	2490	1005	2700	1850	1100	200-250	200-250	400
WL-WSSG2450		2400	5000	10.32	2990	1045	2700	1850	1100	250-300	250-300	400
WL-WSSG2640		2600	4000	8.81	1910	1045	2900	1950	1200	250-300	250-300	400
WL-WSSG2645		2600	4500	9.98	2410	1045	2900	1950	1200	250-300	250-300	400
WL-WSSG2650		2600	5000	11.15	2910	1045	2900	1950	1200	250-300	250-300	400
WL-WSSG2655		2600	5500	12.32	3410	1045	2900	1950	1200	250-300	250-300	400
WL-WSSG2660		2600	6000	13.49	3910	1045	2900	1950	1200	250-300	250-300	400

Max. Working pressure : 0.6MPa/86psi/6.0kg/cm<sup>2</sup>

## TOP MOUNT SAND FILTER

The tank is made of environmentally friendly, high-quality stainless steel, which is robust and resistant to wear and tear, easy to operate, and offers an economical, high-performance configuration. Multi-function valve (six-position) control is used to realise different functions during the whole working process:

- Filter
- Backwash (Clean the filter by reversing the flow)
- Rinse(Drain the remaining dirt in the water pipe)
- Waste (By-passes filter, used for vacuuming to waste or lowering the water level)
- Recirculate (By-pass filter for circulating water to pool)
- Close



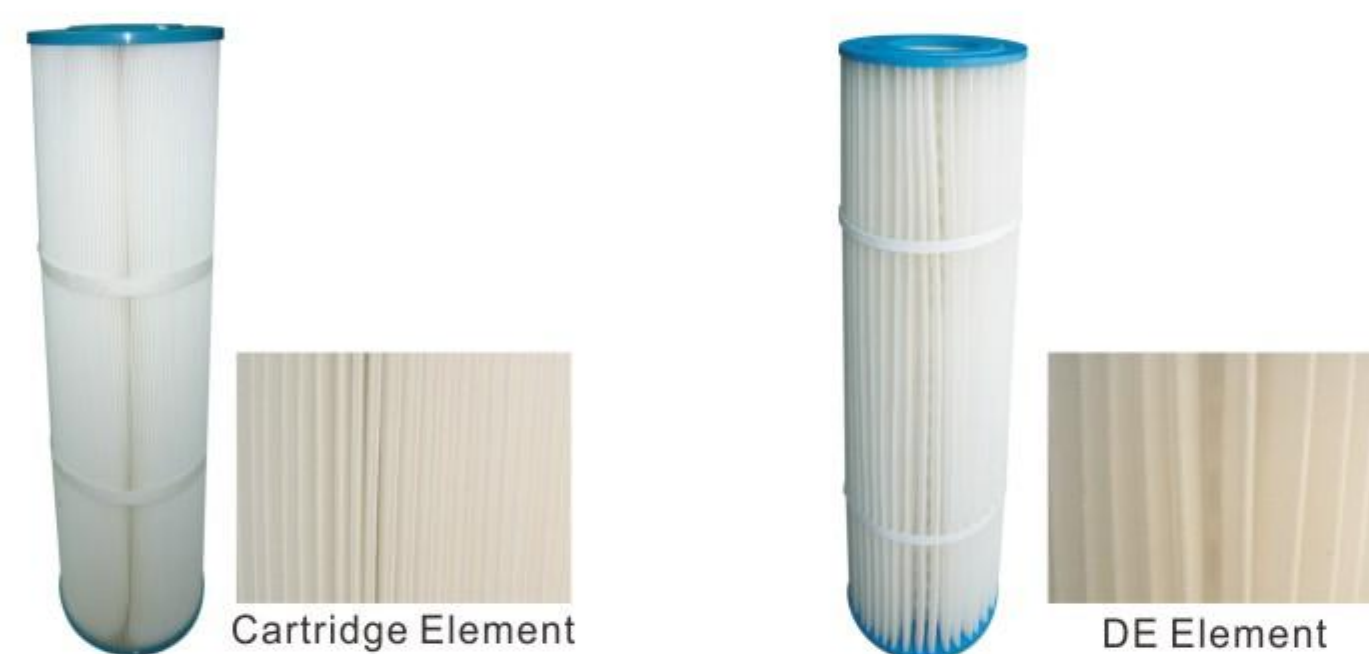
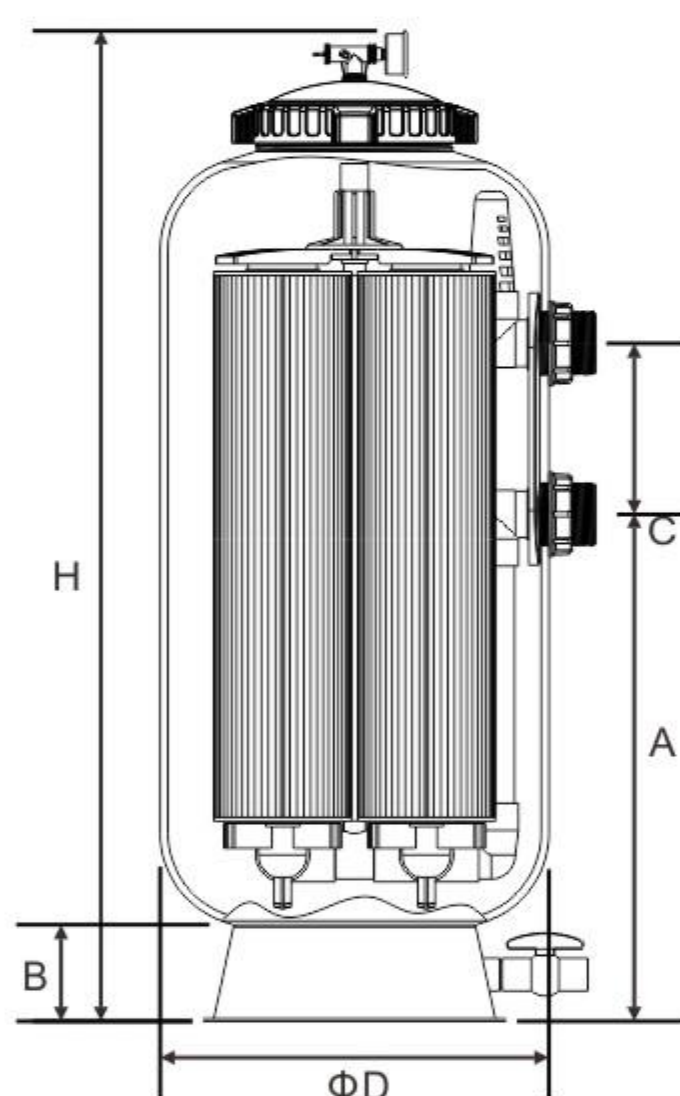
Model	Max. Working pressure	Inlet Dia. DN(mm)	Outlet Dia. DN(mm)	Filter Area (m <sup>2</sup> )	Design flow (m <sup>3</sup> /h)	D (mm)	H (mm)	H1 (mm)
WL-HSDG400	0.6Mpa	40	40	0.13	6.5	400	700	400
WL-HSDG500		40	40	0.2	11	500	800	400
WL-HSDG600		40	40	0.3	14	600	850	500
WL-HSDG700		40	40	0.4	20	700	900	500
WL-HSDG750		50	50	0.45	21	750	1000	600
WL-HSDG800		50	50	0.5	25	800	1100	750
WL-HSDG900		50	50	0.64	30	900	1200	750
WL-HSDG1000		50	50	0.79	35	1000	1300	750
WL-HSDG1200		50	50	1.13	45	1200	1500	750

Max. Working pressure : 0.6MPa/86psi/6.0kg/cm<sup>2</sup>

## CONVERTIBLE CARTRIDGE & DIATOMACEOUS EARTH FILTER



- UV inhibited filament wound structural fiberglass tanks.
- 2" or 63mm Inlet/Outlet PVC unions.
- Either 6 way Multiport or Push-Pull valve available for DE models.
- Easy removal or installation of cartridges or DE elements.
- Cartridges in 20.9, 23.2, 35.3, 41.8 Sq.m<sup>2</sup> sizes, fully convertible to DE.
- DE elements in 3.25, 4.18, 6.97, 8.39 Sq.m<sup>2</sup>.sizes, fully convertible to Cartridges.
- Large clear lock ring sealed lid for easy interior viewing and media installation/removal.
- Exclusive integral Inlet/Outlet manifold eliminates conventional bulkhead fittings.
- Hose bib drain valve allows removal of tank debris away from mechanical area.



Model	BZX225	BZX250	BZX350	BZX450	BZX520
	BDE35	BDE45	BDE75	BDE90	
ΦD(mm)	500	500	500	500	500
H(mm)	965	965	1270	1270	1270
A(mm)	341	341	646	646	646
B(mm)	125	125	125	125	125
C(mm)	220	220	220	220	220

Model	Pipe Size		Filtration area		Design flow		Diatomite weight (kg)	Tank Diameter (mm)	Tank Height (mm)
	inches	mm	m <sup>2</sup>	Ft <sup>2</sup>	m <sup>3</sup> /h	lpm			
BZX225	2	63	20.9	225	19.08	318	-	500	965
BZX250	2	63	23.2	250	21.35	356	-	500	965
BZX350	2	63	35.3	380	32.30	538	-	500	1270
BZX450	2	63	41.8	450	34.07	568	-	500	1270
BZX520	2	63	44.8	482	36.50	608	-	500	1270
BDE35	2	63	3.25	35	15.90	265	1.59	500	965
BDE45	2	63	4.18	45	20.44	341	2.04	500	965
BDE75	2	63	6.97	75	34.07	568	3.40	500	1270
BDE90	2	63	8.36	90	41.80	696	4.08	500	1270

MAXIMUM WORKING PRESSURE:36psi/2.5bar/cm<sup>2</sup>, MAXIMUM TEMPERATURE ≤50°C, MAXIMUM TESTING PRESSURE: 58psi/4.0bar/cm<sup>2</sup>

### 6-WAY MULTIPOINT VALVE

New type of multiport control valve, made of ABS and engineered for maximum flow at lower pressure drops will be the first choice in the same ones. All the valves feature an easy-to-easy lever action handle that lets you "dial" up to six valve/filter functions : filter, backwash, waste, rinse, closed or recirculate. Complete with an integral sight glass that lets you see when the backwashing cycle is completed, our wide selection of valve configurations allows you to the proper application: residential and commercial.



1.5" Multiport valve for top mounted clamp lock filter



2" Multiport valve for top mounted filter



1.5" Multiport valve for side mounted filter



2" Multiport valve for side mounted filter

### BUTTERFLY VALVE FOR COMMERCIAL FILTERS



4-Way Valve Manifold

Size: 3"- 8"



5-Way Valve Manifold

Size: 3"- 8"

# CRYSTAL GLASS FILTER MEDIA

Crystal Glass Filter Media, made from virgin material, its advantage over Silica Sand as filter media application are;

### Prevents bacterial growth

The aseptic properties Crystal Glass Filter Media avoid the formation of biofilm. This important characteristic is accredited by accreditation laboratories (see attached lab report). Biofilm is responsible for chloramines, clogging and channeling in the filter mass.

### Long-lasting

Sand media needs to be changed out every 3-5 years depending on the water and debris load that is going through the filter. Crystal Glass Filter Media lasts about 2-3 times as long as sand filter media, it is often referred to as "Permanent Medium".

### Improves water clarity

Sand will filter to about 30 microns. Crystal Glass Filter Media will filter down to roughly 5-10 microns. Even finer particles than cartridge filters.

### Reduces backwashing

Sand will require longer backwashing to clean the dirt out of the system. As there is more volume of media to go through. Glass media will backwash quicker as the material is lighter and less dense, so it floats better, resulting in faster cleaning. Faster cleaning also means less water usage. Usage of Crystal Glass Media will result in less HEAD loss (see Fig 3).

### Economical

Sand filter media, generally speaking, to fill the filter more cost effective.

Glass media since it is finer will only require roughly 50-70% fill capacity at a higher cost but with more value.

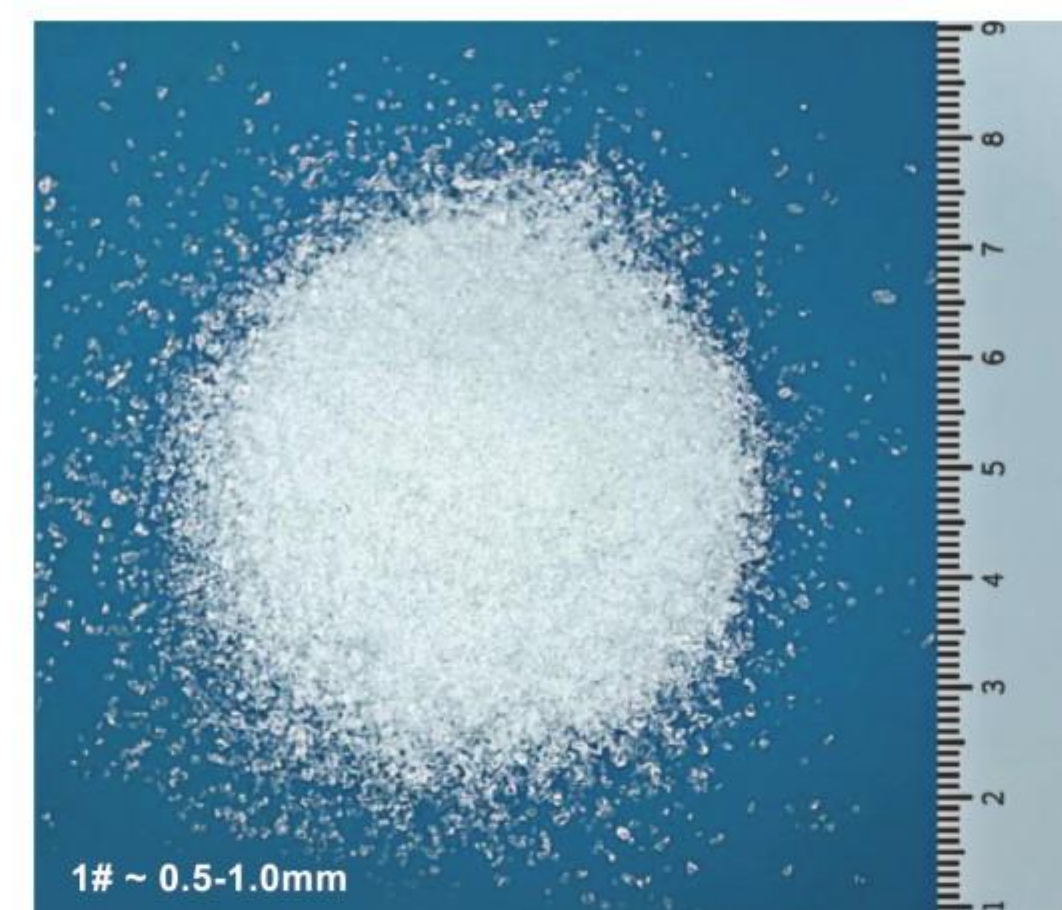


Fig 1



Fig 2

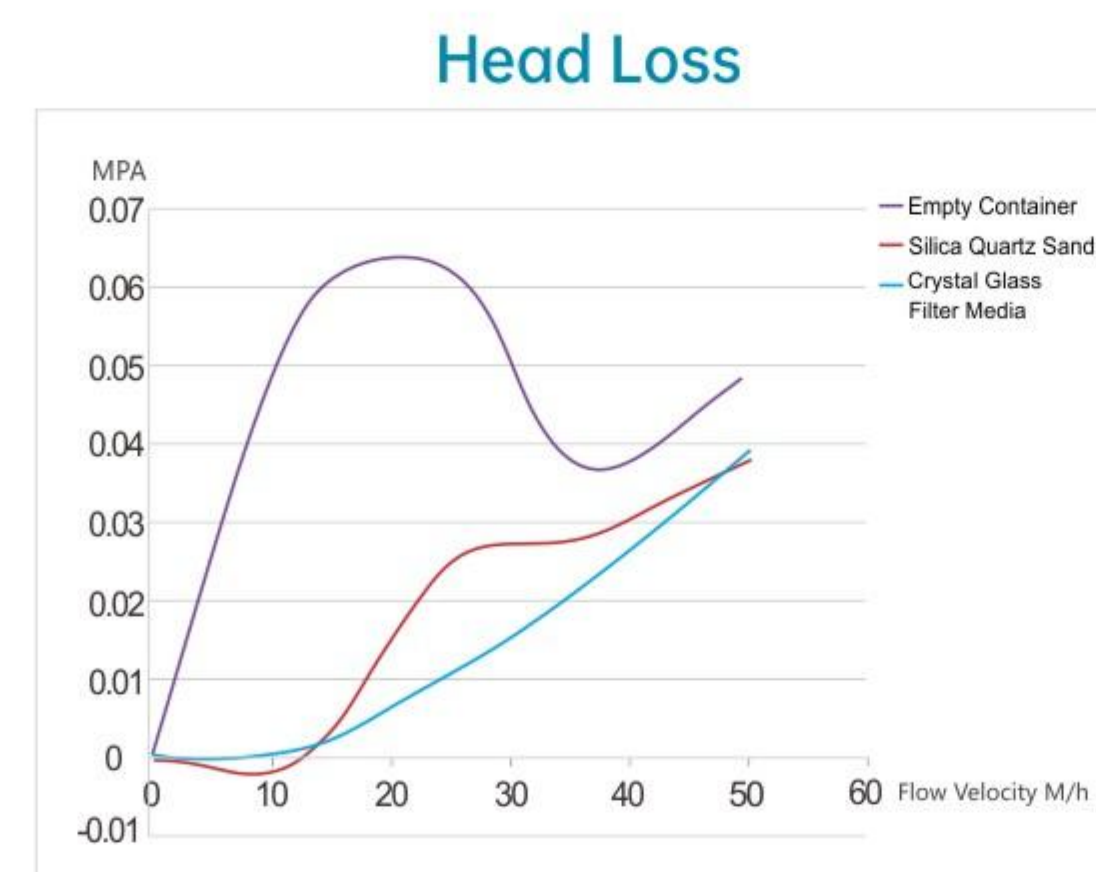


Fig 3

## Test Results Summary (GMICRO report)

### Turbidity Test

Type	Water Volume (litre)	Diatomaceous Earth Added (gram)	Turbidity										
			Start	@4 minutes		@8 minutes		@12 minutes		@16 minutes		@20 minutes	
				1#	2#	1#	2#	1#	2#	1#	2#	1#	2#
Silica Sand	350	15.75	45	12.0	10.15	4.05	5.5	6.31	5.87	6.29	4.42	2.74	3.27
Crystal Glass Filter Media	350	15.75	45	4.5	4.19	3.84	3.72	2.91	3.6	3.6	3.56	1.65	1.86

- 1# and 2# are batch nbr of water sample
- Test performed at 25m/hour velocity, flow at 3.14m<sup>3</sup>/hour
- Crystal Glass Filter Media performs at 70% reduction in turbidity and reach below 2NUT after 20 minutes

### Back Wash Test

Media	Layer Thickness (cm)	Backwash depth (cm)
Silica Sand	10	13
Crystal Glass Filter Media	10	14

- Crystal Glass Filter Media bed expansion rate is 25% higher than Silica Sand.
- High expansion ratio = less backwash resistance, therefore less time and water usage.
- Within the same container, high expansion rate = less filter media is required.

### Water Quality Test using Crystal Glass Filter Media

Nbr	Test Performed	Data Before Filtration	Results After 10 minutes of filtration	Units
1	Aerobic Bacterial Count	5 x 10 <sup>2</sup>	/	CFU/mL
2	Total Coliforms	Absence	Absence	/
3	Vanadium	0.05	≤0.01	mg/L
4	pH value	8.42	7.82	/
5	Turbidity	19.4	≤1	NTU

Test performed by Guangdong Detection Center of Microbiology, report dated 2020-6-11

SMARTER WATER FOR A  
SMARTER HOME

02



# PUMPS



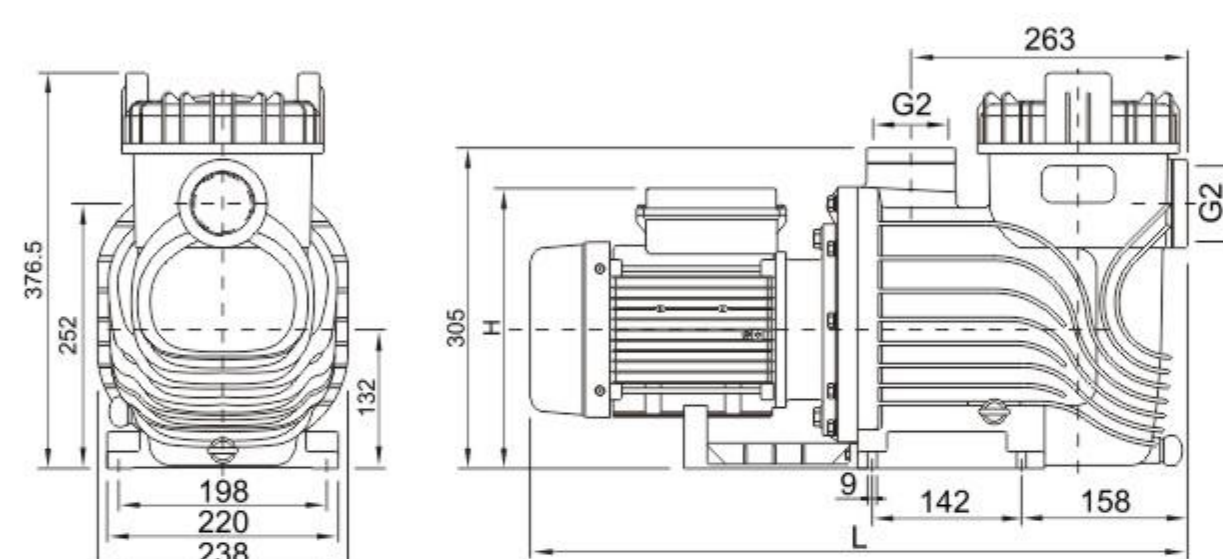
## LAKP SERIES PUMP



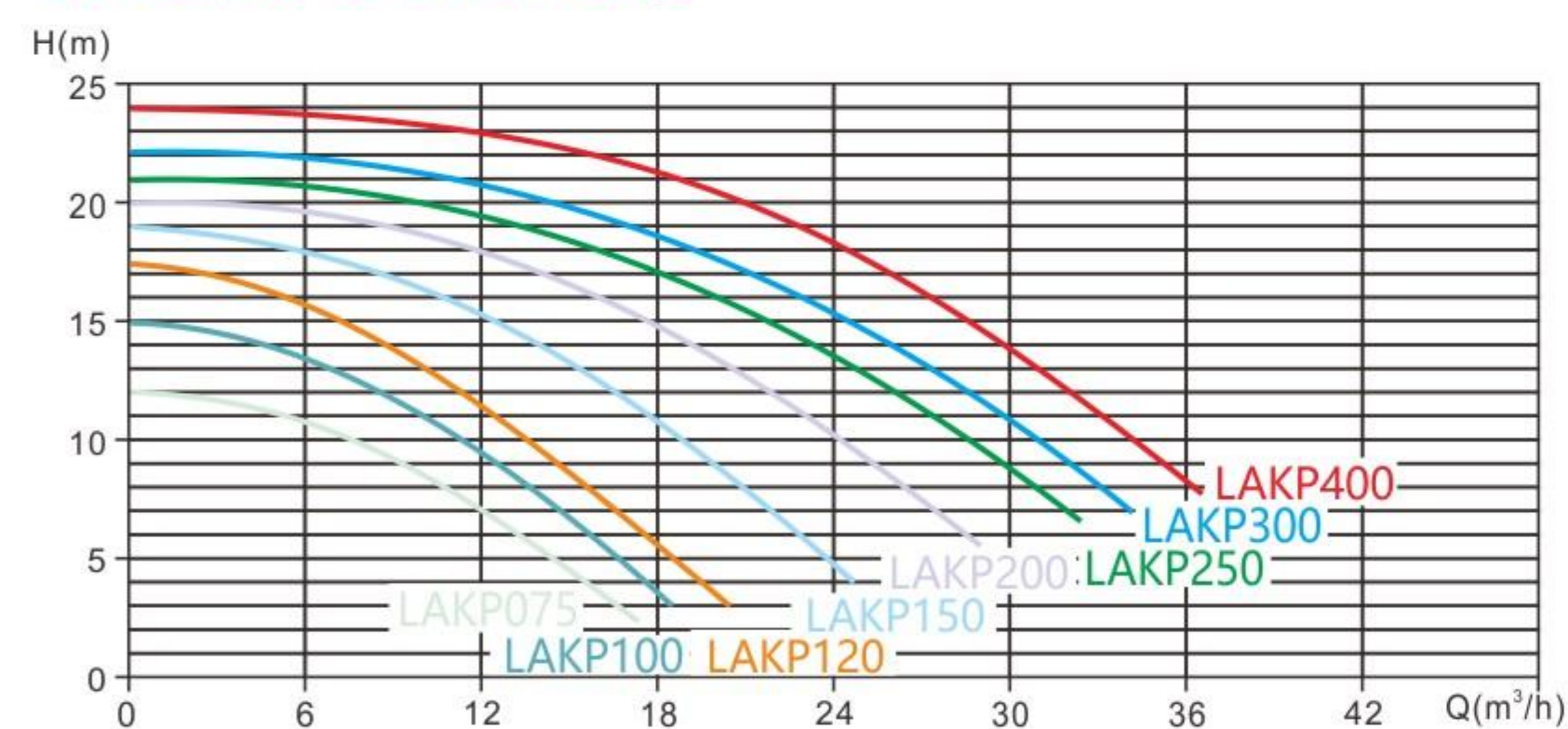
Featuring a sleek, unique design, the LAKP series high-performance pump combines reinforced engineering plastic housing with Stainless Steel reinforced ports for extra strength. Equipped with a 3.2L large basket for easy maintenance and self-priming capability (max. 2.5m suction). With AC-structure bearings to minimize noise, it delivers long-lasting, whisper-quiet operation and perfect for spas, commercial pools, and water parks.

### Features:

- Self-priming up to 2.5m
- Protection standard: Ip55
- Insulation class: F
- Liquid temperature: 0-75°C (0~167°F)
- Ambient temperature: ≤50°C (122°F)
- Max. Working pressure: 1.0Mpa



QH.Curve of The Pump



Model	Q-Max (m³/h)	H-Max (m)	Rated power supply (V/Hz)	Input power		Current (A)	L Length (mm)	H Height (mm)	Connection size (inch)	Weight (kg)	Packing size (mm)
				kW	HP						
WL-LAKP075M/T	17.4	12	M: 220V/50Hz  T: 380V/50Hz	0.55	0.75	3.2	575	238	48.5/ 50/ 60.3/ 63/	16	615×270×440
WL-LAKP100M/T	18.6	15		0.75	1.0	3.8	575	238		16.5	
WL-LAKP120M/T	20.4	17.5		0.9	1.2	4.6	575	238		17	
WL-LAKP150M/T	24.6	19		1.1	1.5	5.2	594.5	243	19	60.3&63	635×270×440
WL-LAKP200M/T	28.8	20		1.5	2.0	7.0	594.5	246	20.3		
WL-LAKP250M/T	32.4	21		1.85	2.5	8.6	594.5	258	22.4		
WL-LAKP300M/T	34.2	22		2.2	3.0	10	594.5	258	22.4		
WL-LAKP400M/T	36.6	24		3.0	4.0	14	626	267	26.2	665×270×440	

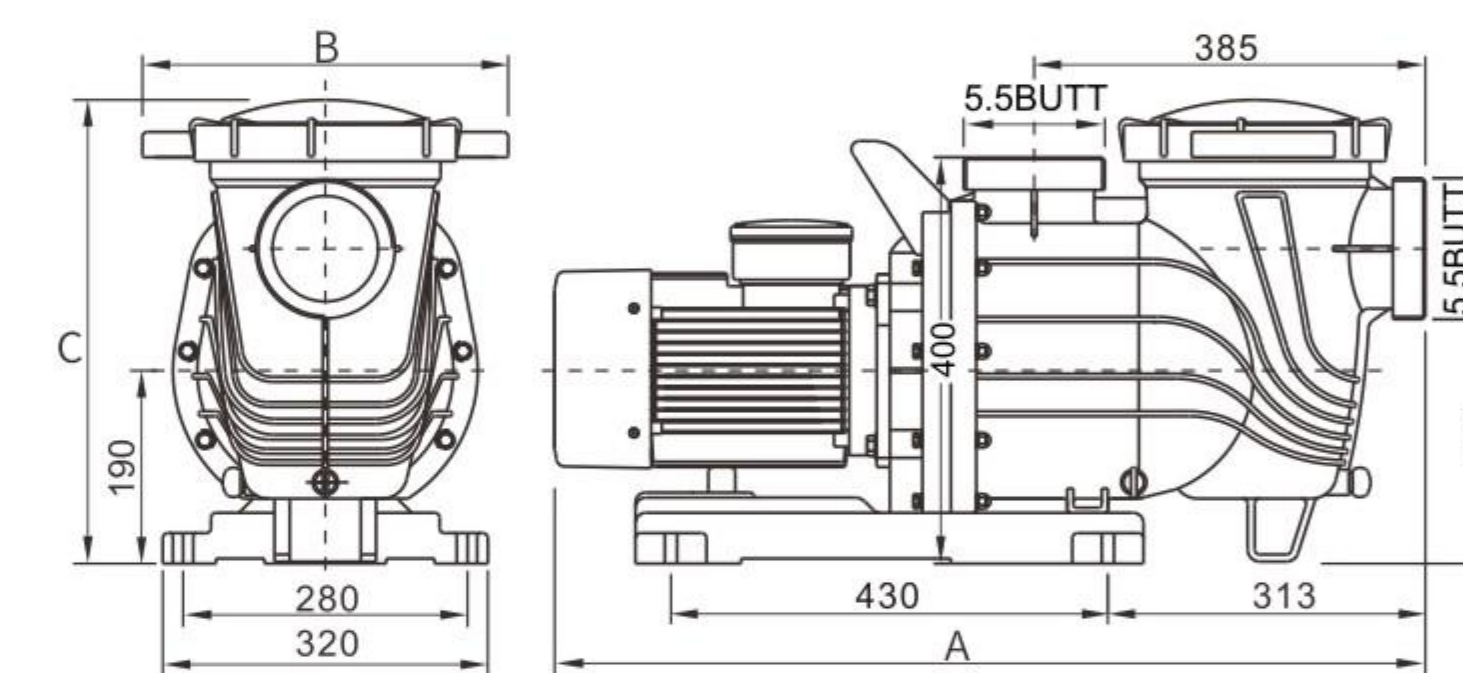
## SLP SERIES PUMP



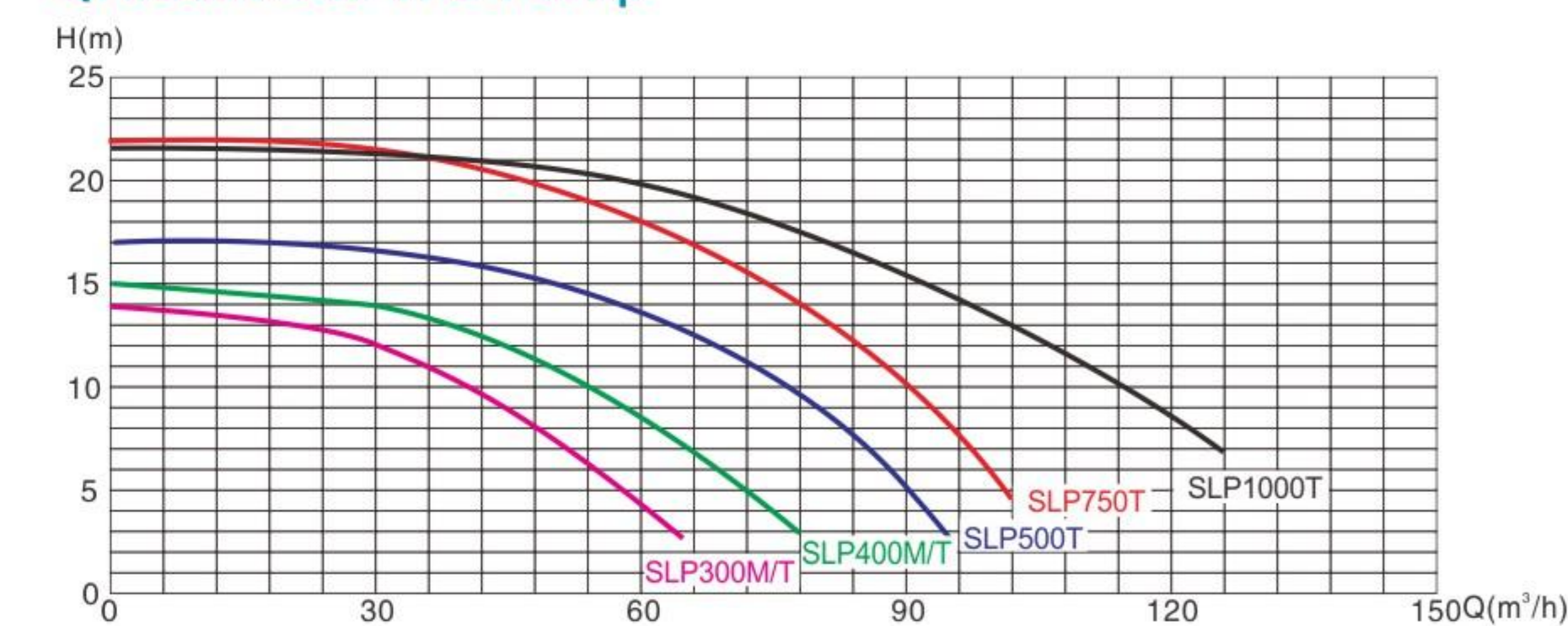
Designed for large water parks, aquariums, and hot spring filtration, SLP series heavy-duty pump features an integrated plastic baseplate for easy installation. The high efficiency motor ensures energy savings and long service life. Corrosion-resistant and low-maintenance, it delivers reliable performance in commercial water circulation systems.

### Features:

- Protection standard: Ip55
- Insulation class: F
- Liquid temperature: 0-75°C (0~167°F)
- Ambient temperature: < 50°C (122°F)
- Max. Working pressure: 0.7Mpa



QH.Curve of The Pump



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	110	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	90	114.3	54.5	930×395×600
WL-SLP750T	102	22	----	9.6	5.5	7.5	857	360	456			60.3	
WL-SLP1000T	126	21.5	----	11.1	7.5	10	887	360	456			64.5	

# LCAP SERIES PUMP

PUMPS

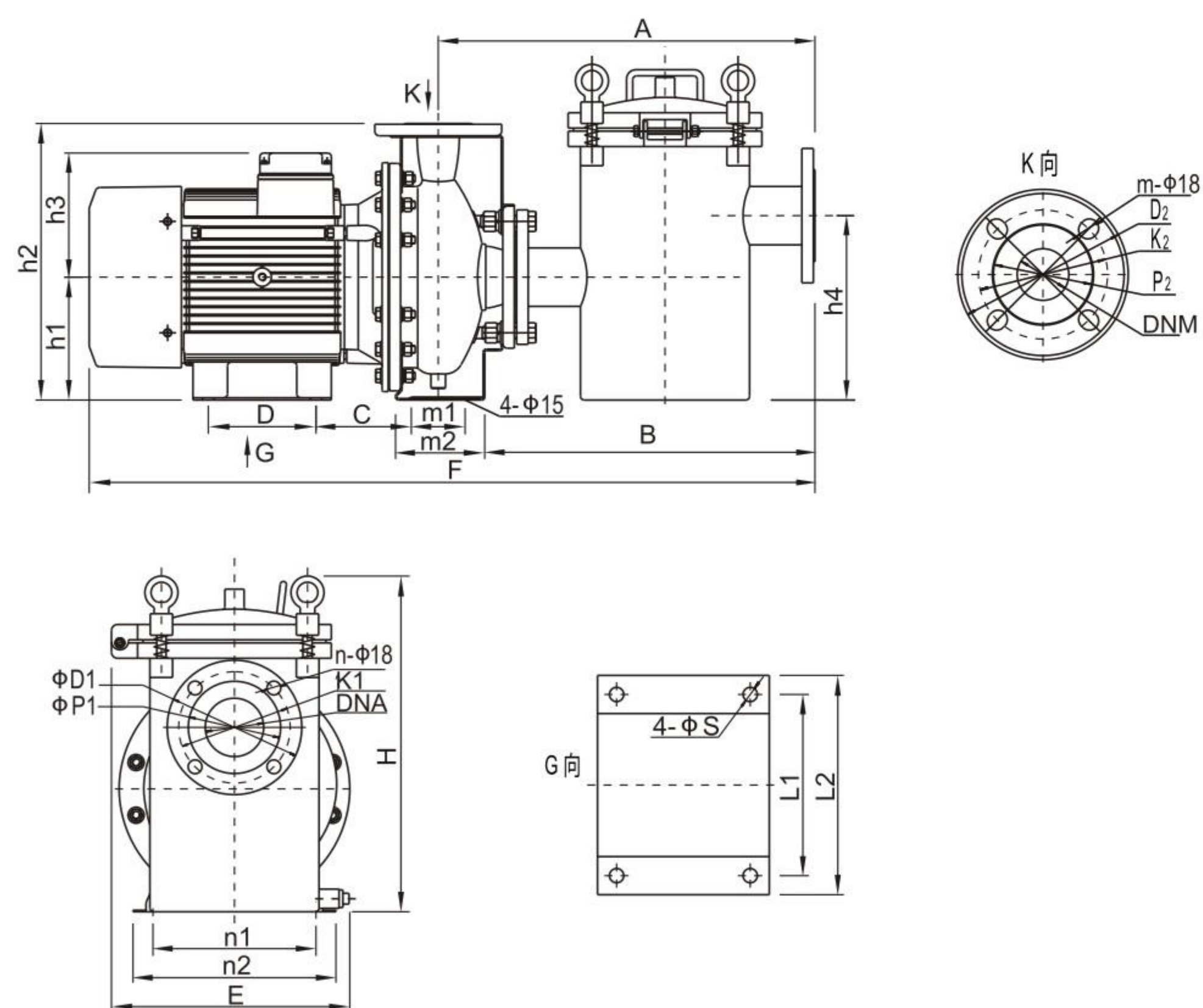


Engineered for aquaculture and commercial pools, LCAP series corrosion-resistant stainless steel pump delivers powerful, low-noise operation. The single-phase motor features a built-in USA/Germany (I) thermal protector to prevent overheating and motor failure. Designed for heavy-duty use, it ensures reliable, energy-efficient water circulation in harsh conditions.

### Features:

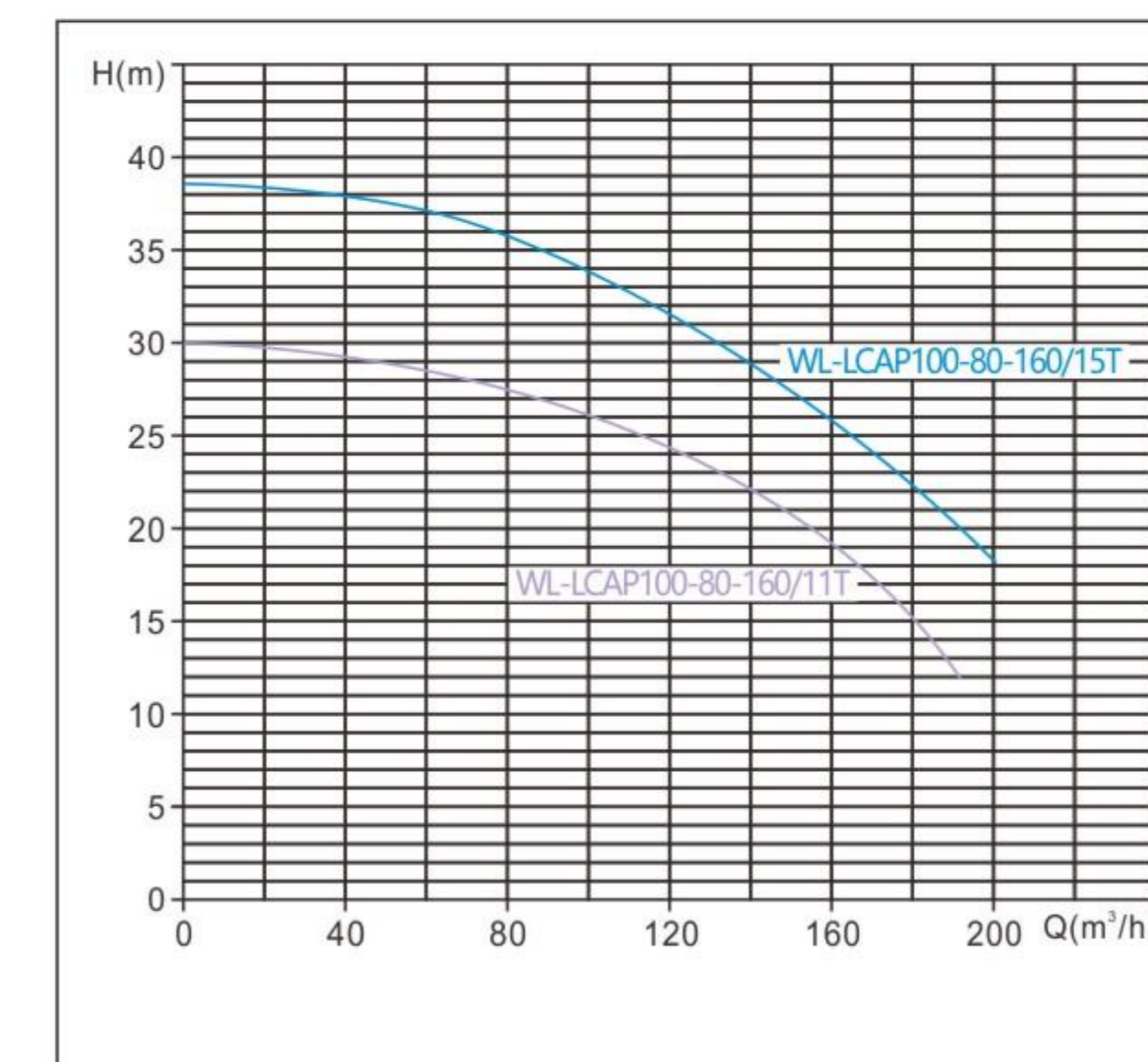
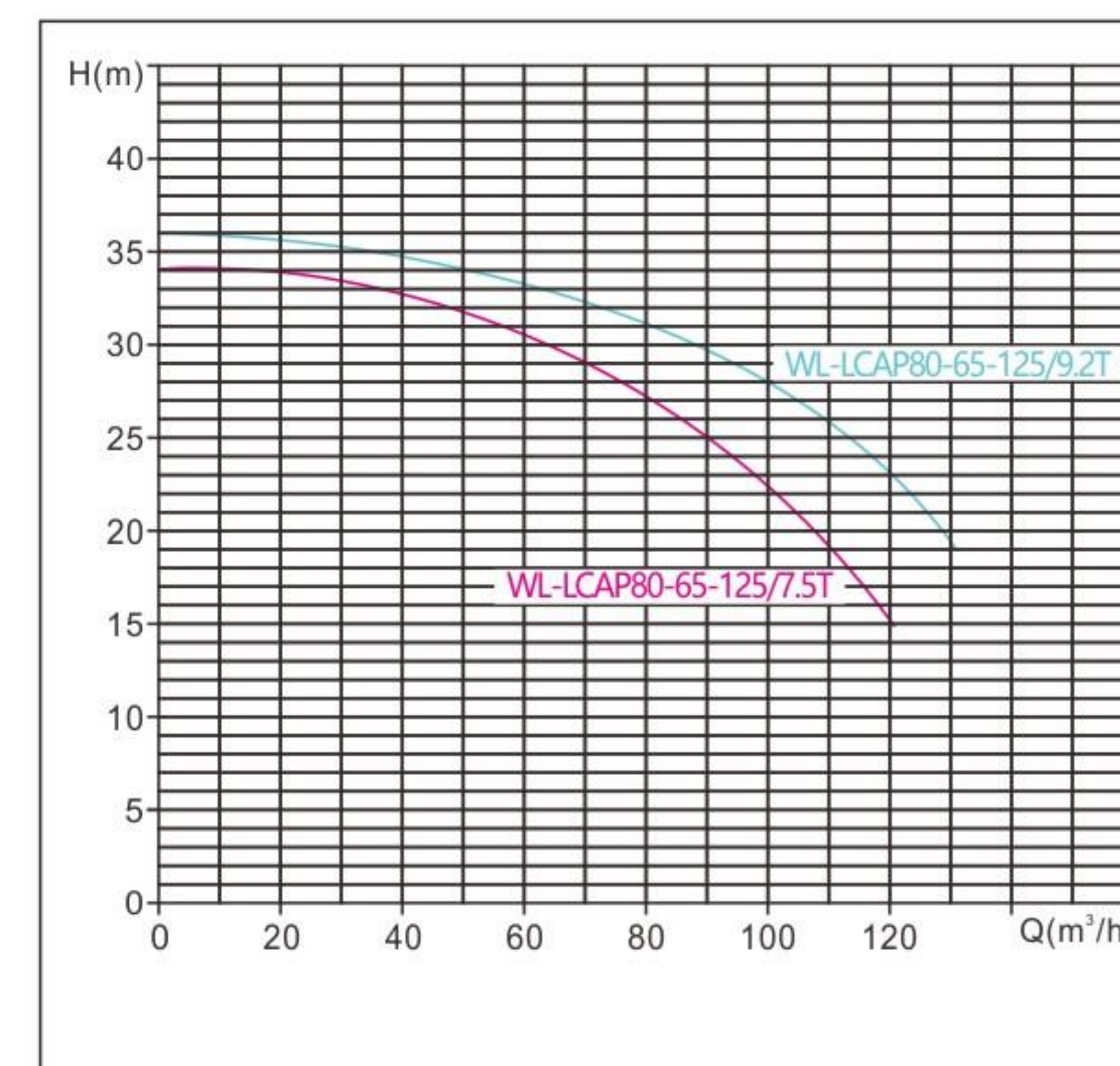
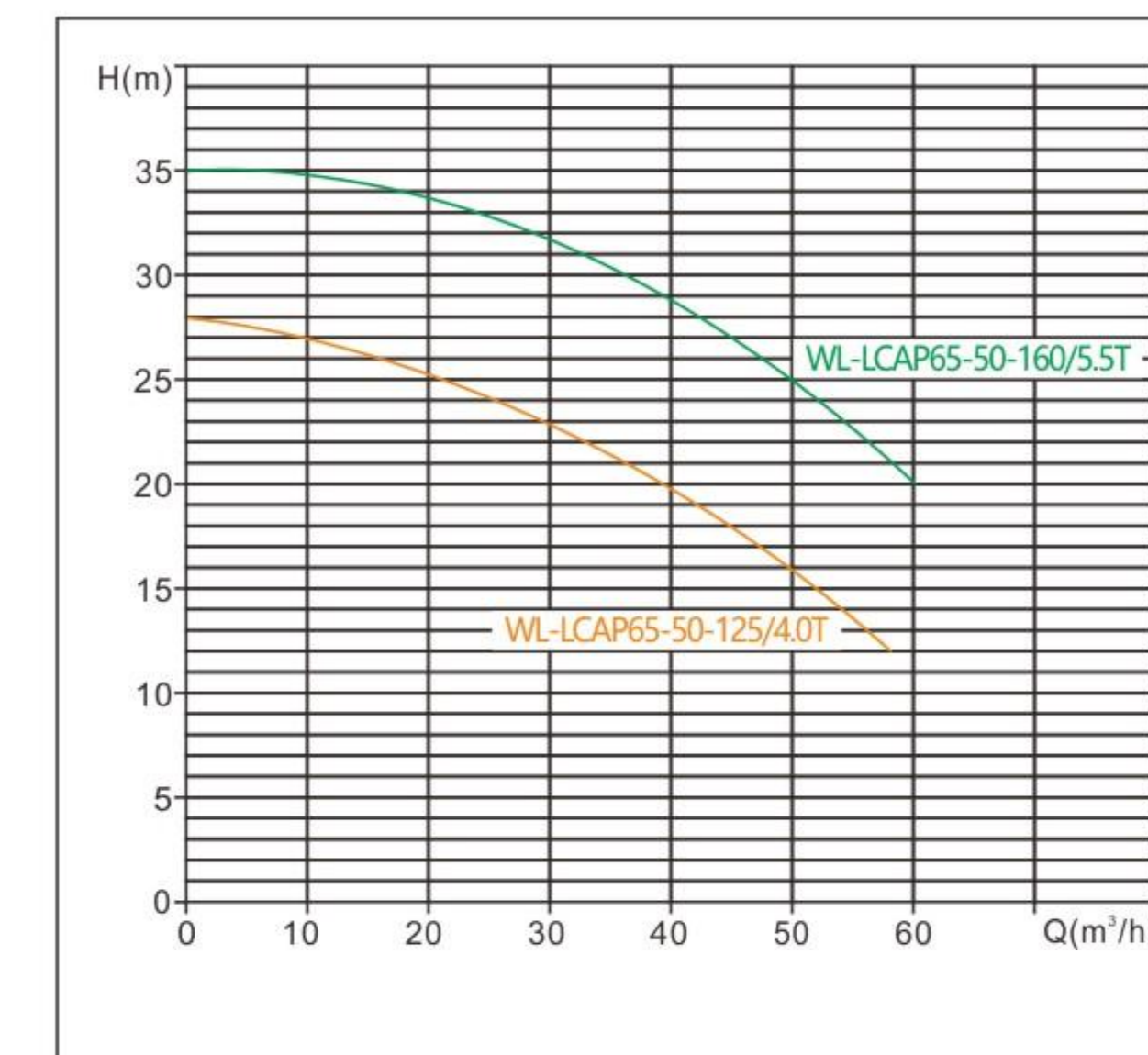
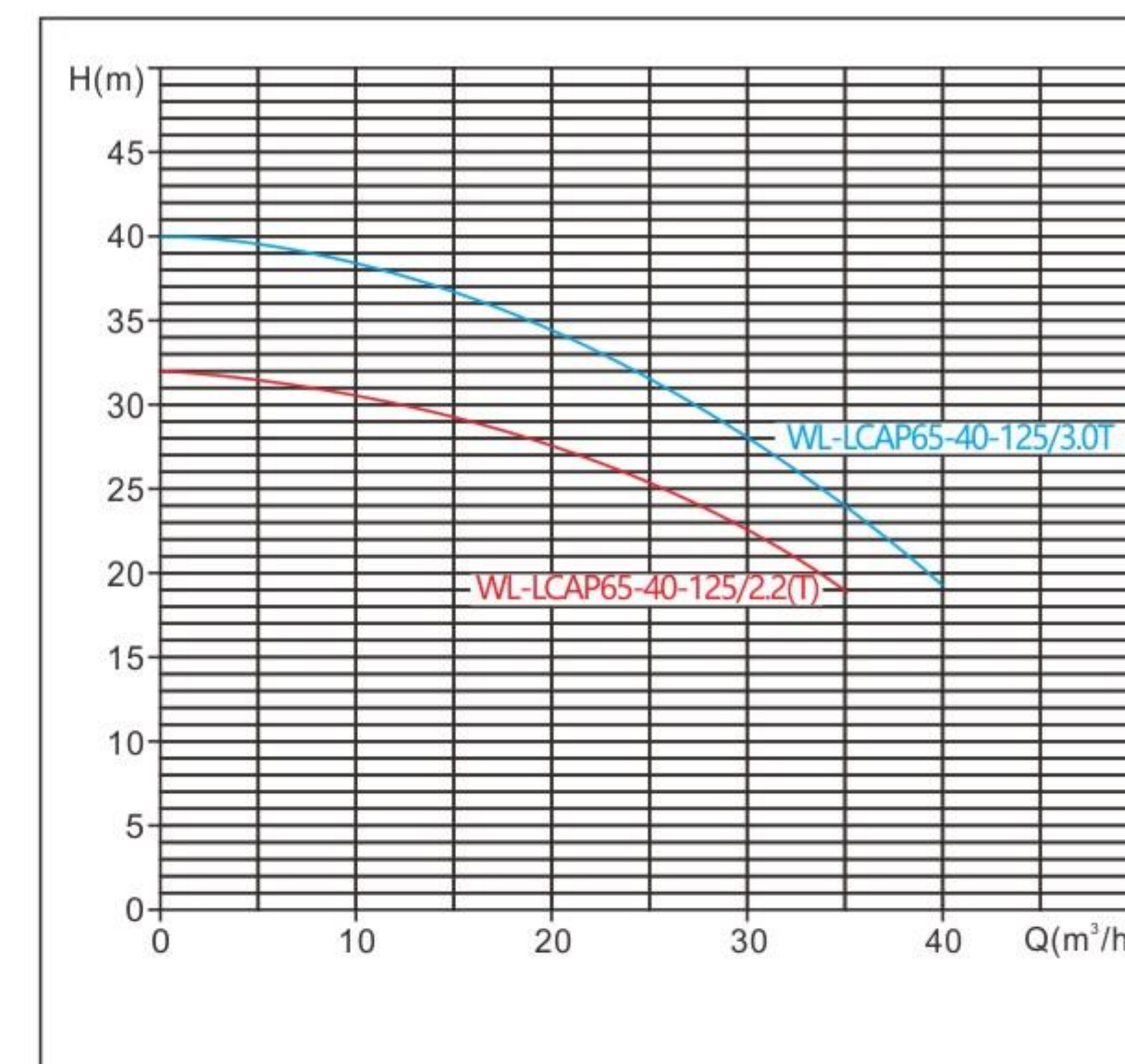
- Protection standard: Ip55
- Insulation class: F
- Liquid temperature:  $\leq 104^{\circ}\text{C}$  (219.2 $^{\circ}\text{F}$ )
- Ambient temperature:  $\leq 50^{\circ}\text{C}$  (122 $^{\circ}\text{F}$ )
- Max. Working pressure: 1.0Mpa
- Pump housing: SS304
- Filter basket: SS304
- Shaft: SS304
- Impeller: SS304

### Materials:



Model	E	F	H	h1	h2	h3	h4	A	m1	m2	n1	n2	B	C	D	φS	L1	L2	φD1	φK1	φP1	φD2	φK2	φP2	m	n	DNA	DNM
WL-LCAP65-40-125/2.2(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	1066	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



Model	Output power P <sub>2</sub>		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

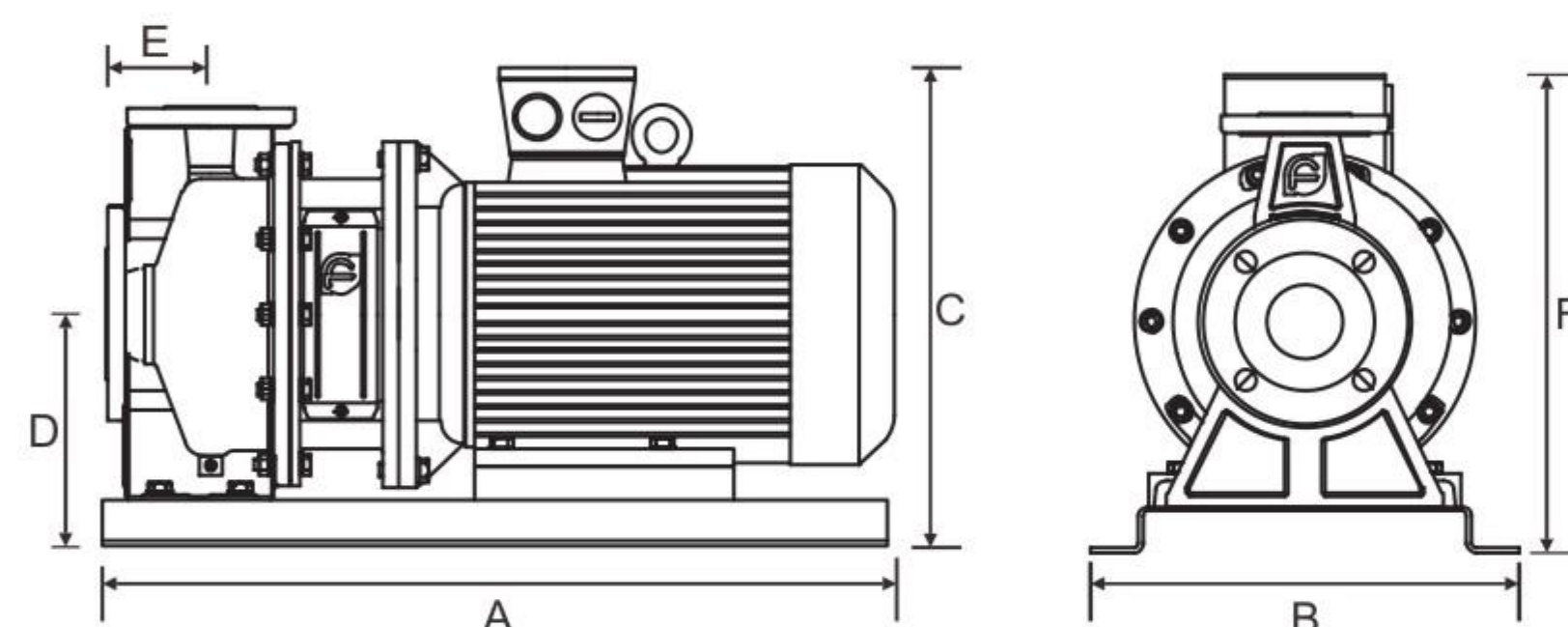
PUMPS

## ZS SERIES STAINLESS STEEL CENTRIFUGAL PUMPS

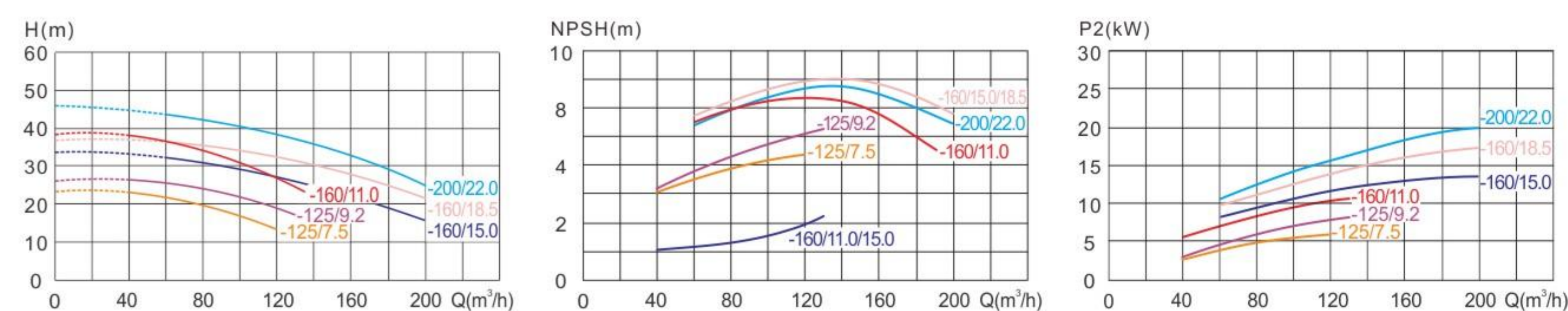
The ZS series stainless steel centrifugal pump, made with advanced stamping and welding, is a new-generation pump that replaces traditional corrosion-resistant types. It offers a compact design, high efficiency, energy savings, durability, light corrosion resistance, and low noise.

### 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

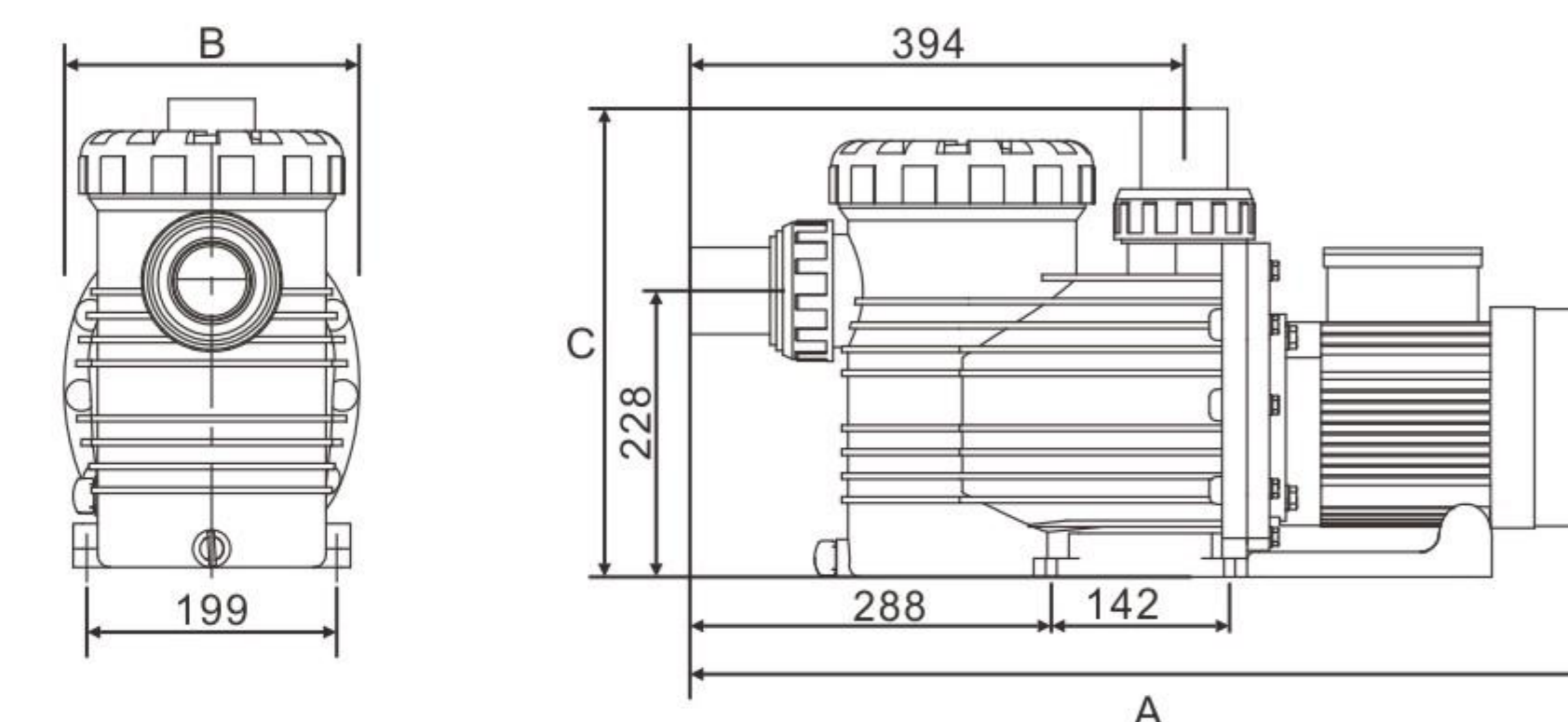
Model	Max. Flow (m³/h)	H-Max (m)	Rated power supply	Input power		Inlet/Outlet	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Weight (kg)
				kW	HP								
WL-ZS80-65-125/7.5SSC	120	24.5	380/50	7.5	10	DN80/DN65	673	370	380	200	100	380	83
WL-ZS80-65-125/9.2SSC	130	28.1	380/50	9.2	12.5	DN80/DN65	711	370	380	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

## KBP SERIES SEAWATER PUMP

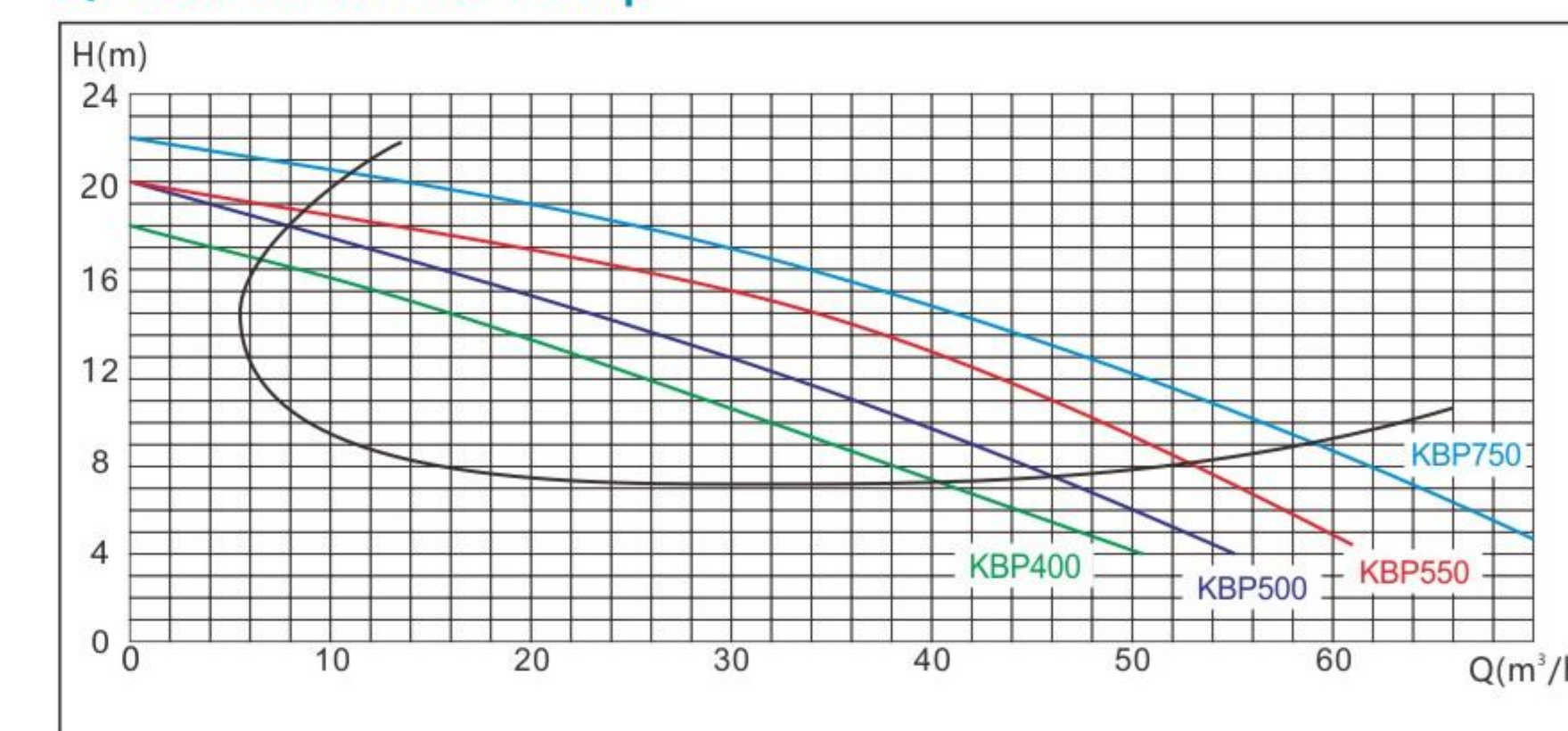
KBP seawater pump is a series of sturdy and durable pump with high head and sufficient flow. The body has strong sealing, corrosion resistance and pressure resistance. Suitable for all kinds of aquaculture ponds and seawater ponds.

### 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.



### QH. Curve of The Pump



Model	Q-Max (m³/h)	H-Max (m)	Rated power supply (V/Hz)	Input power		A Length (mm)	B Width (mm)	C Height (mm)	Connection size (inch)	Weight (kg)	Packing size (mm)
				kW	HP						
WL-KBP400	50	18	380/50	3	4	750	221	373	2"	30	775×315×450
WL-KBP500	55	20	380/50	3.7	5	750	221	373	2"	30	
WL-KBP550	60	20	380/50	4	5.5	770	221	373	2.5"/75 3"/90	33	830×315×440
WL-KBP750	70	22	380/50	5.5	7.5	780	221	373	2.5"/75 3"/90	37	

# FCP SERIES PUMP

## Features:

- Anti-rust crust can stop water penetrating the engine.
- Enough power, high head, large flow and high efficient circulation.
- Smaller noise and run quietly.
- The pump cover bears high airtight preventing the leaking.
- Convenient to handle, easy to maintain, with the supplying of spareparts.

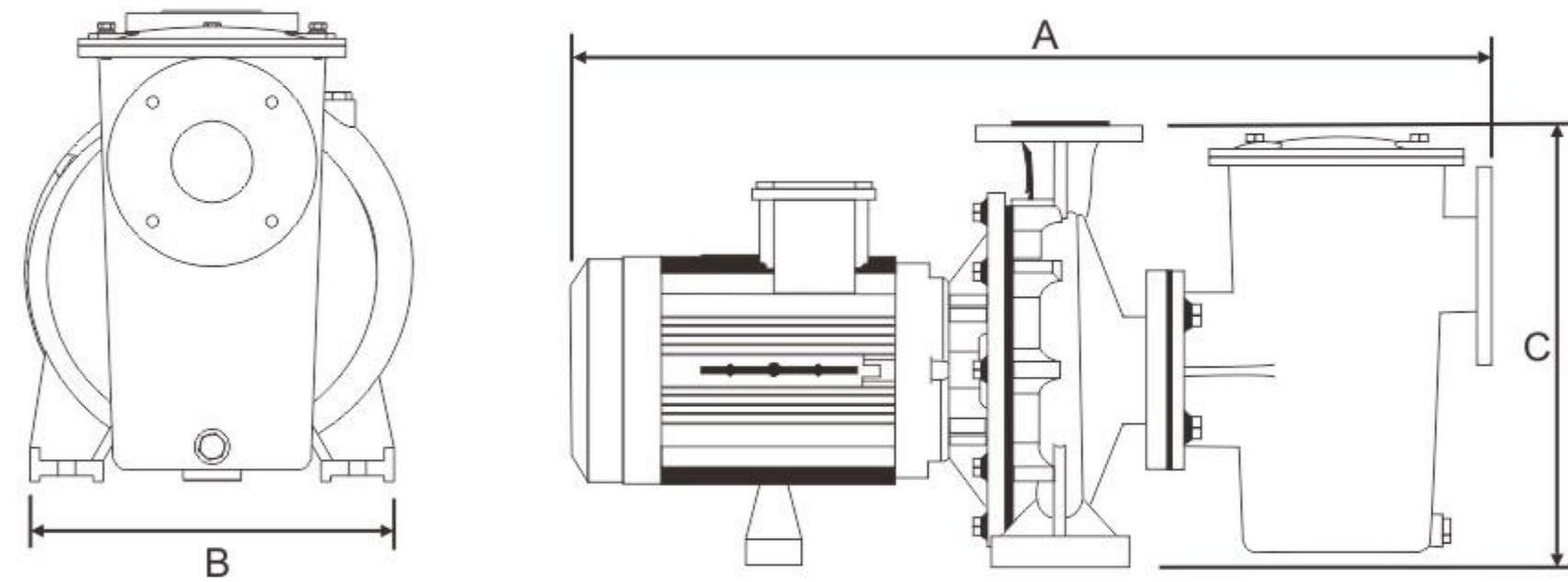


## Materials:

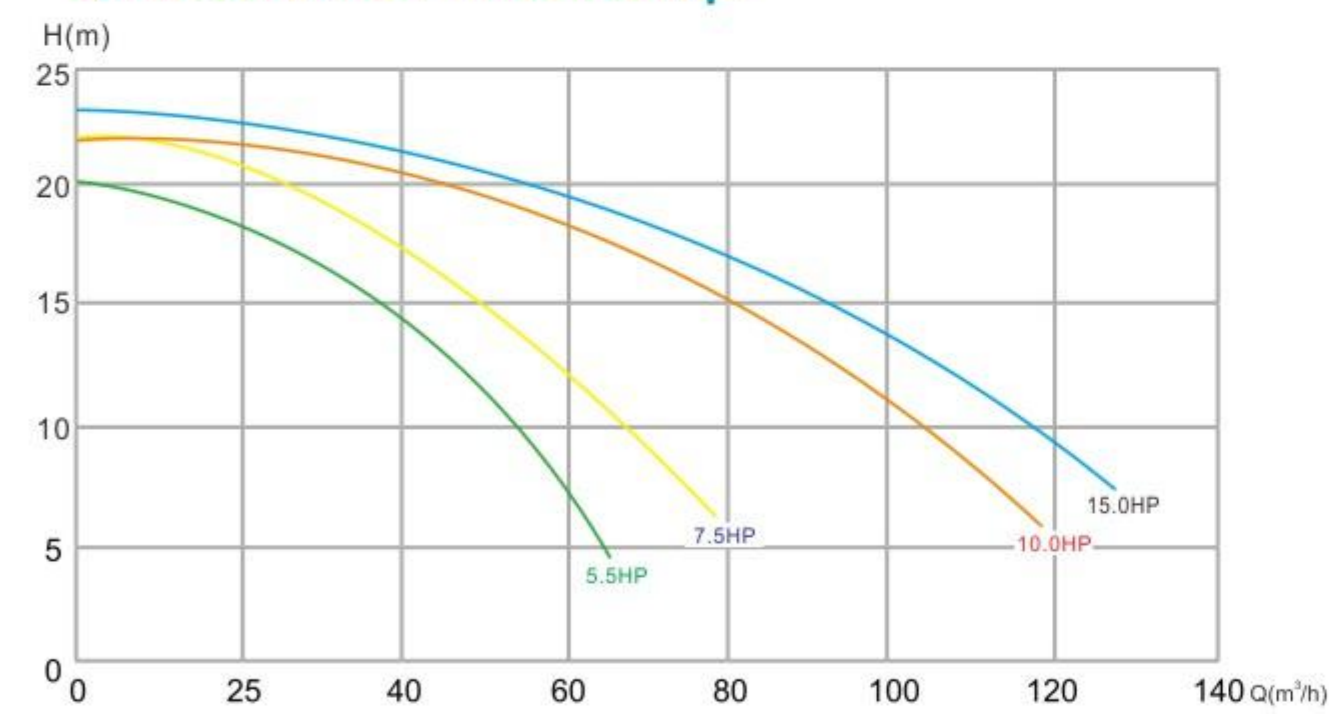
- Pump housing: Cast iron
- Pre-filter basket: Stainless steel AISI304
- Shaft: Stainless steel AISI304
- Impeller: Stainless steel AISI304

## Motor:

- Motor speed: 1450rpm
- Waterproof: IP55
- Insulation class: F



QH.Curve of The Pump



Model	Horsepower (HP)	Rated Power (kW)	Phase	Voltage (V)	Inlet Port Dia. (mm)	Inlet Flange Dia. (mm)	Outlet Flange Dia.(mm)	Outlet Port Dia. (mm)	A Length (mm)	B Length (mm)	C Length (mm)
WL-FCP055	5.5	4.0	3	380	Φ80	4-Φ12 Φ90	4-Φ18 Φ75	Φ65	820	350	410
WL-FCP075	7.5	5.5	3	380	Φ80	4-Φ18 Φ90	4-Φ18 Φ75	Φ65	850	370	420
WL-FCP100	10.0	7.5	3	380	Φ100	4-Φ18 Φ110	4-Φ18 Φ90	Φ80	950	370	420
WL-FCP150	15.0	11.0	3	380	Φ100	4-Φ18 Φ110	4-Φ18 Φ90	Φ80	950	370	420



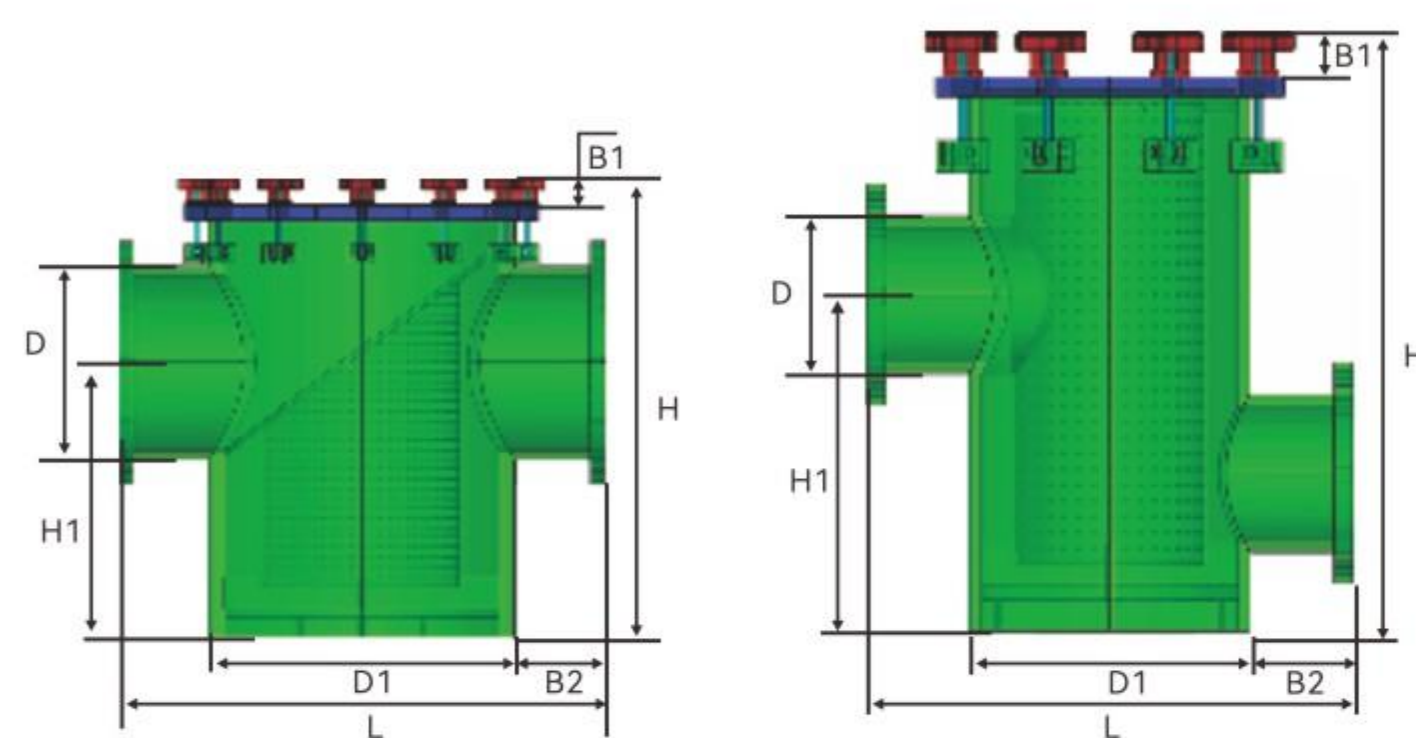


**BASKET  
STRAINER**



## ALGP SERIES BASKET FILTER

The basket filter is made of engineering plastics. The product has the good characteristic such as, light weight, withstand the corrosion, adapt to bad working environments and no secondary pollution. Mainly used in electronic chemical industry, steel, surface treatment, water treatment, aquarium and other industries.



Model	Specifications	Pressure	Material / Filter basket material	Filter fineness	Sealing material	Flange standard	Working temperature	Connection mode
WL-ALGP	DN25-DN400	PN 5	PPH / PVC / PVDF	100-300mesh	EPDM/EPF	HG GB SH HGJ JB ANSI JIS	0-80°C	Flange / Butt weld / Screw thread

Model	Inlet DN	Outlet DN	D1	H	H1	L	B1	B2	Filter area (m <sup>2</sup> )
WL-ALGP-25	25	25	125	390	270	210	55	50	0.0098
WL-ALGP-32	32	32	125	390	270	210	55	50	0.016
WL-ALGP-40	40	40	125	400	275	230	55	52.5	0.0251
WL-ALGP-50	50	50	160	450	300	270	55	55	0.0393
WL-ALGP-65	65	65	200	550	370	320	55	60	0.0576
WL-ALGP-80	80	80	225	550	250	365	55	70	0.0754
WL-ALGP-100	100	100	250	550	250	390	55	70	0.1178
WL-ALGP-125	125	125	315	550	250	465	55	75	0.1192
WL-ALGP-150	150	100	315	600	300	475	55	80	0.2649
WL-ALGP-150	150	150	315	600	300	475	55	80	0.4225
WL-ALGP-200	200	150	400	600	300	580	55	90	----
WL-ALGP-200	200	200	400	600	300	580	55	90	----
WL-ALGP-250	250	150	450	822	450	650	55	100	----
WL-ALGP-250	250	200	450	822	450	650	55	100	----
WL-ALGP-250	250	250	450	822	450	650	55	100	----
WL-ALGP-300	300	200	500	828	500	750	55	125	----
WL-ALGP-300	300	250	500	828	500	750	55	125	----
WL-ALGP-300	300	300	500	828	500	750	55	125	----
WL-ALGP-350	350	250	630	900	650	930	55	150	----
WL-ALGP-350	350	300	630	900	650	930	55	150	----
WL-ALGP-350	350	350	630	900	650	930	55	150	----
WL-ALGP-400	400	250	630	900	650	930	55	150	----
WL-ALGP-400	400	300	630	900	650	930	55	150	----
WL-ALGP-400	400	350	630	900	650	930	55	150	----
WL-ALGP-400	400	400	630	900	650	930	55	150	----

## 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.

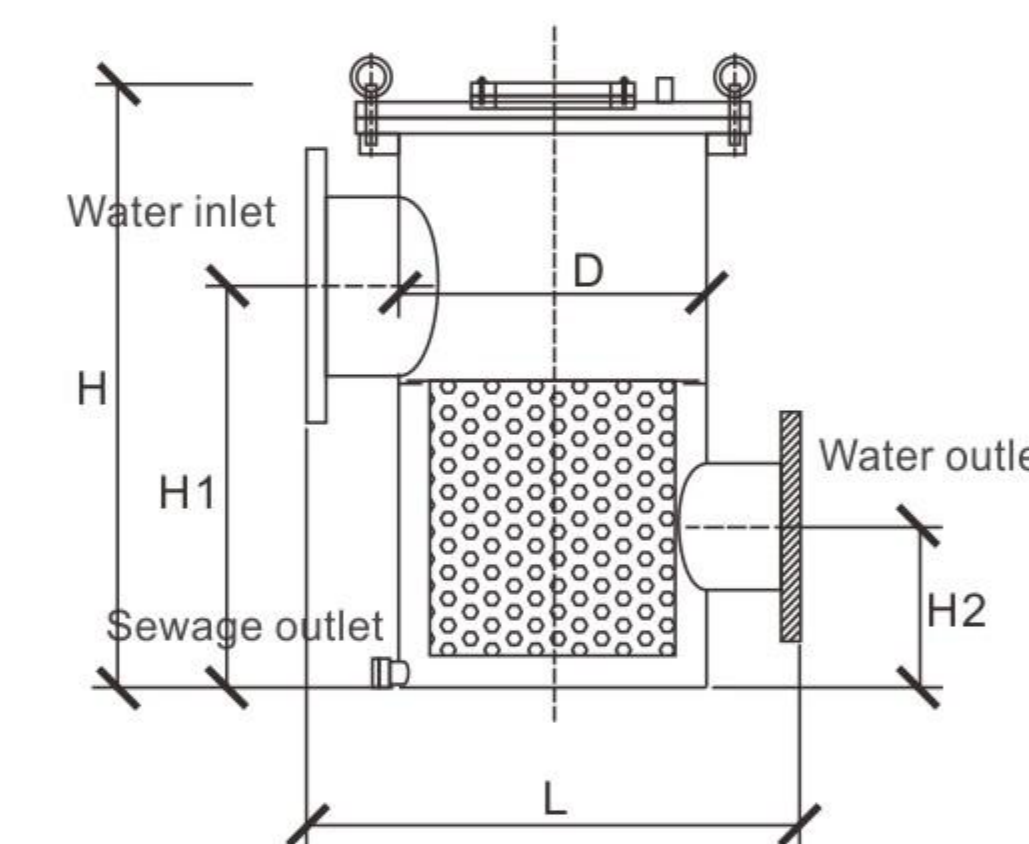
### Operating principle:

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.



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.

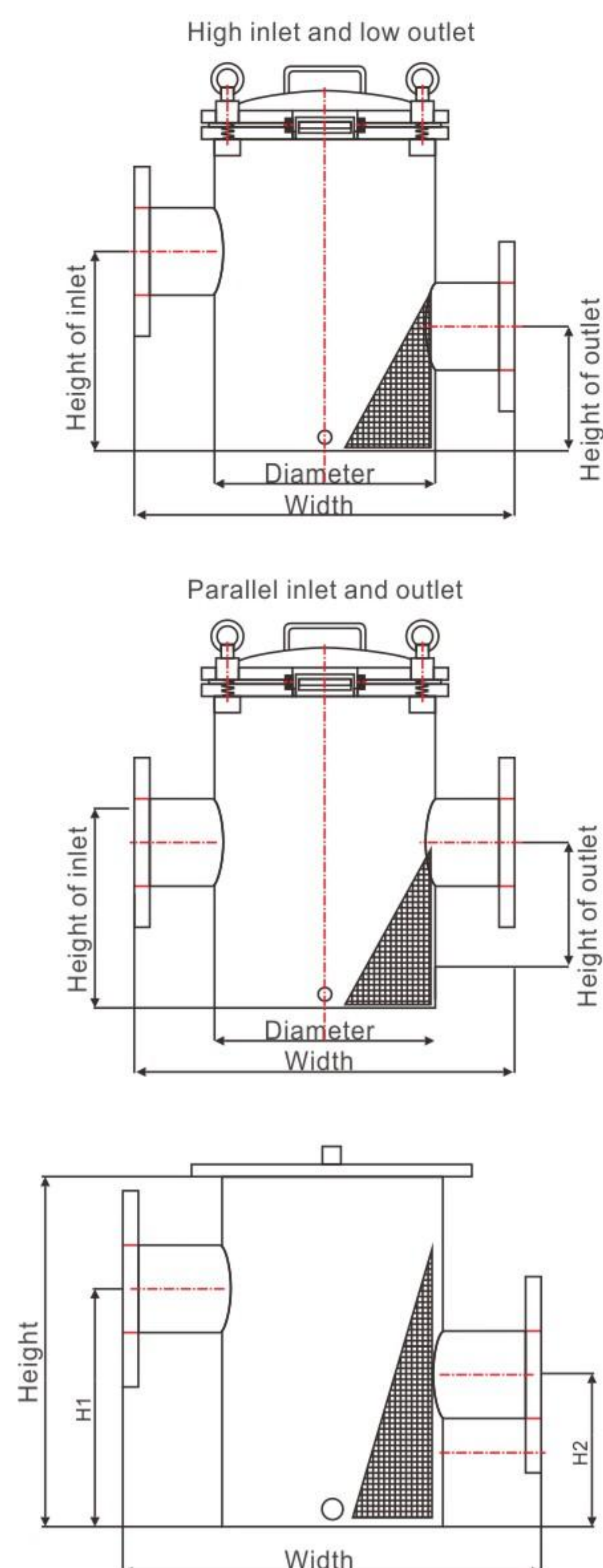
## Operating principle:

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

## 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

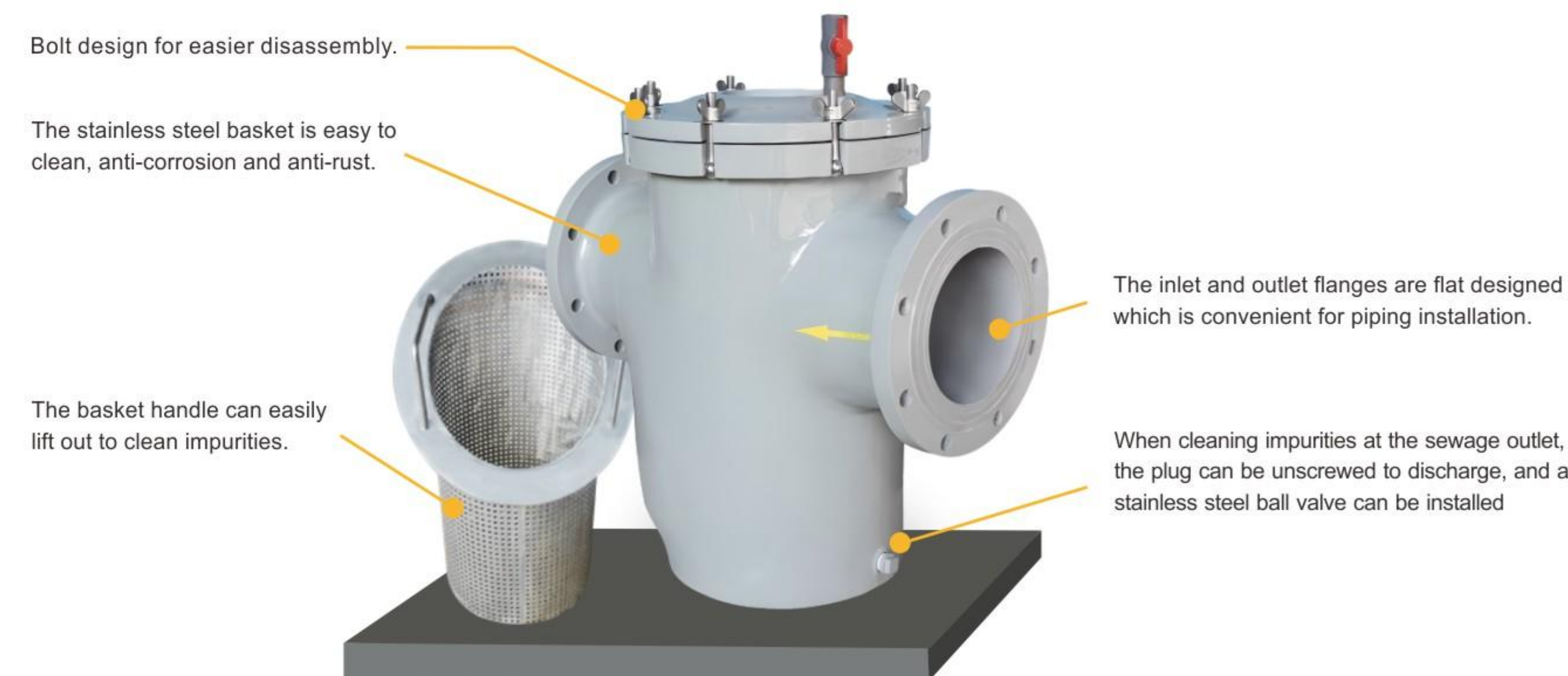
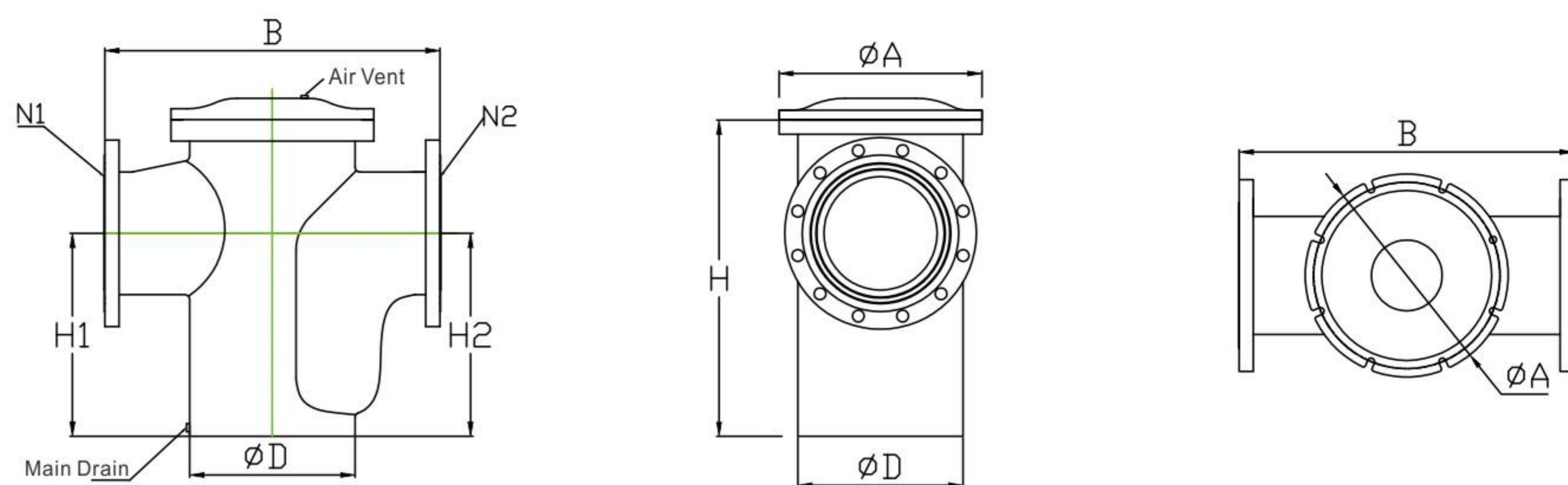
# PREFILTER

The prefilter is composed of connection, body, basket, flange cover, and some lockers. It can remove solid particles in the liquid, and can protect the normal operation of the subsequent equipment. When the fluid goes into the prefilter body, the solid impurity particles are blocked in the filter basket, and the clean fluid flows out from the filter through the filter basket. In addition, by intercepting impurities, the pump impeller, instrument and other supporting equipment can be protected from damage.



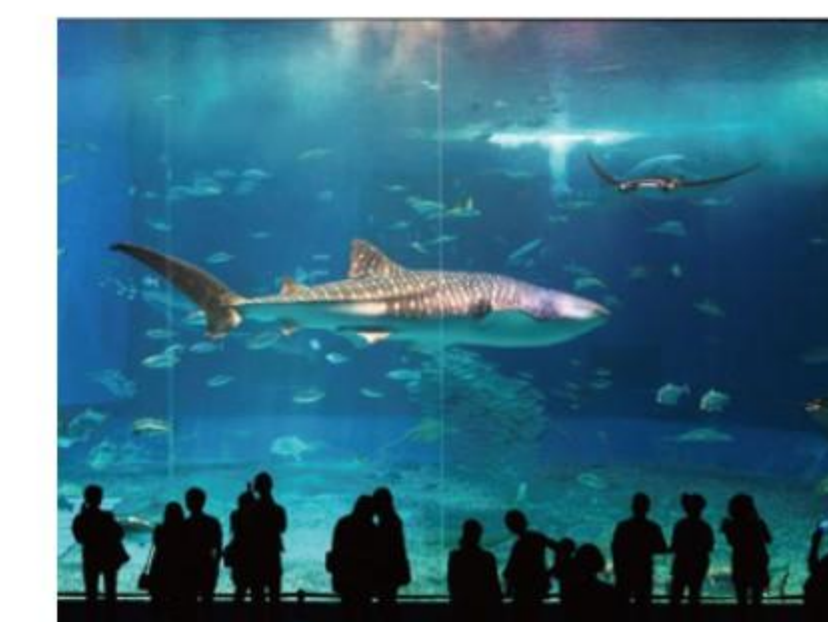
## Features:

- Quick opening design;
- Top observation window;
- Anti-corrosion coating inside;
- There is a sewage outlet at the bottom, which is convenient for sewage cleaning;
- 316L stainless steel filter body for easy cleaning.



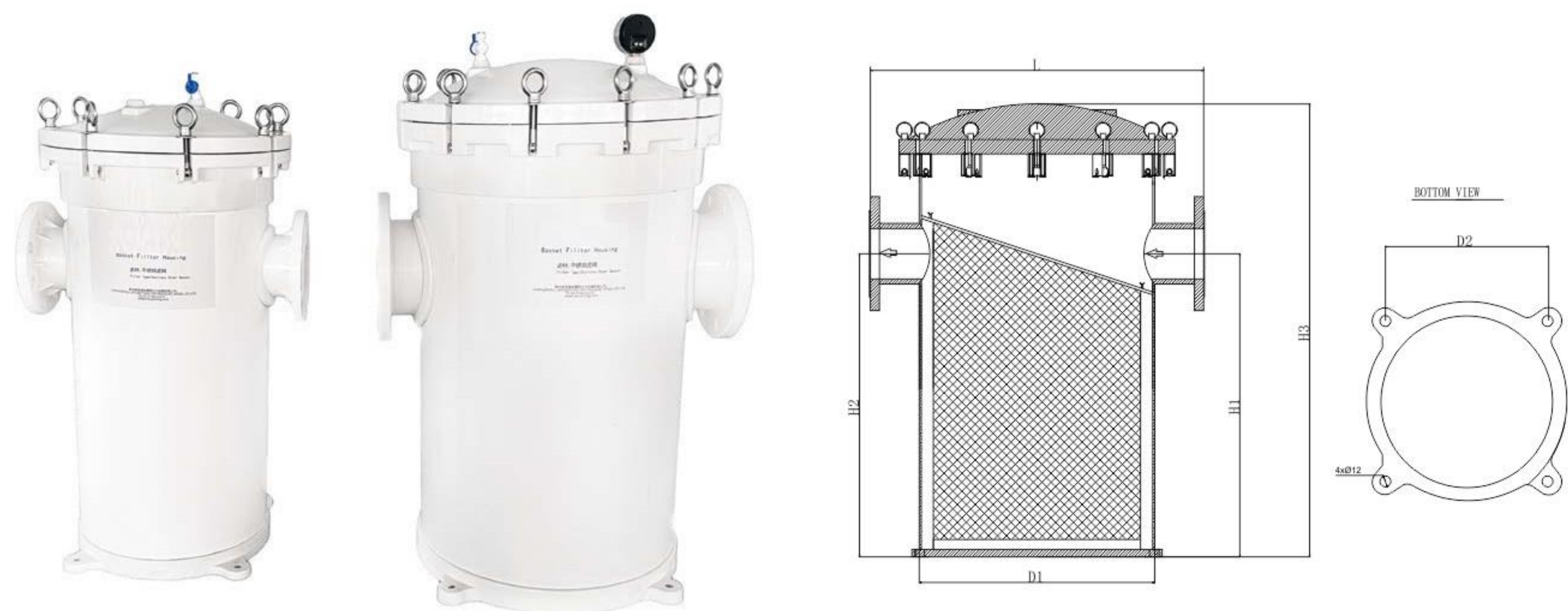
Model	ΦA (mm)	ΦD (mm)	ΦB (mm)	H (mm)	H1 (mm)	H2 (mm)	Darin	Intlet N1	Outlet N2	Flow (m <sup>3</sup> /h)
WL-FGPF290	290	230	475	440	240	240	DE20	DE90	DE90	45
WL-FGPF320	320	260	510	500	295	295	DE20	DE110	DE110	60
WL-FGPF370	370	320	590	600	365	365	DE20	DE160	DE160	120
WL-FGPF430	430	370	690	700	425	425	DE25	DE200	DE200	190
WL-FGPF470	470	410	750	800	490	490	DE25	DE250	DE250	240
WL-FGPF510	510	460	840	930	600	600	DE25	DE315	DE315	300
WL-FGPF630	630	580	950	1210	785	785	DE25	DE400	DE400	370

Suitable for swimming pools, water parks, aquariums, zoos, water treatment, etc.



# FRP BASKET FILTER HOUSING

BASKET STRAINER



## SPECIFICATIONS AND TECHNICAL INFORMATION

Model	Port Size (mm)	L F-C Length (mm)	D1 Housing Dia (mm)	H1/H2 Port Height (mm)	H3 Height (mm)	D2 Install Dim (mm)
WL-FLPF-200BS-65	DN65	310	210	290	390	184
WL-FLPF-200BS-80	DN80	320	210	290	390	184
WL-FLPF-200BS-100	DN100	370	210	290	390	184
WL-FLPF-300BS-125	DN125	470	330	505	870	275
WL-FLPF-300BS-150	DN150	550	330	505	870	275
WL-FLPF-300BS-200	DN200	550	330	505	870	275
WL-FLPF-400BS-250	DN250	750	430	510	870	345

\* If other detailed data is required, please request the corresponding drawings from us.  
 \* The inlet and outlet port size also have DN40 or DN50 for selection.

## CAUTIONS

1. Install the basket into position, fasten it with bolts.
2. Working pressure can't exceed the rated range ( $\leq 6\text{kg}$ ).
3. Open the exhaust valve before starting the machine, then close the exhaust valve after the air is exhausted.
4. Please replace the filter material in time when the pressure difference between inlet and outlet exceeds 1.5kg.



SMARTER WATER FOR A  
SMARTER HOME

04



# DISINFECTING EQUIPMENT



# ADVANCED OXIDATION PROCESS DISINFECTING EQUIPMENT

Unique hydroxyl radical technology, Sterilization rate 99.99% for high-end swimming pool disinfection process.

## Overview:

LASWIM AOP advanced oxidation and disinfection machine is an advanced oxidation and disinfection equipment, which combines ozone and ultraviolet disinfection organically, so that ozone is catalyzed by ultraviolet light to form various free radicals, including hydroxyl radicals, so that most organic matter generates CO<sub>2</sub> and water to solve the toxic and non-biodegradable substances in the water body.

Advanced technology and excellent disinfection ability make the AOP advanced oxidation disinfection machine become the current advanced pool water disinfection and purification system, it is also an ideal choice for high-end swimming pool disinfection.

## Features:

- Integrated structure, easy to install, saves space in the equipment room.
- Ozone safely generated and injected under a vacuum negative pressure operation mode.
- Significantly disinfects chlorine-resistant microorganisms, effectively reduces the free chlorine content in pool water, reduces irritation of human skin and respiratory tract.
- Segregated ozone and UV reactors.
- Built-in independent exhaust gas treatment module and exhaust pipe, can decompose excess ozone gas, to ensure the safety of the server room.
- High-intensity low-pressure UV lamp with a service life of up to 8,000hours.
- 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.

## 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:

algae removal, removal of inorganic matter, removal of suspended matter, rich in dissolved oxygen, activation of minerals.

## Applications Of Aop:



WL-AOP100



WL-AOP300

## AOP products technical advantages:

Super sterilization: AOP (Advanced oxidation process) is the organic combination of ozone gas and ultraviolet, with ozone, ultraviolet high efficiency, broad spectrum sterilization characteristics, is stubborn bacteria viruses and a variety of pathogens, through the rapid destruction of bacteria, virus DNA or RNA molecular structure, resulting in growth or regenerative cell death, to achieve sterilization, disinfection effect. The killing rate is 99.99%, which completely ensures the water quality and health, and avoids cross infection.

### Powerful water purification

Inactivation of chlorine-resistant microorganisms such as viruses, amoebas, cysts and other chlorine-resistant microorganisms and pathogens, AOP provides excellent inactivation of pathogens and reduces free chlorine residues.

### Comfortable environment

The UV rays of AOP photochemically destroy residual ozone in water, eliminating the need for additional ozonation equipment. Ozone effectively reduces the content of trihalomethanes (THM) and rapidly eliminates organic matter. It also improves water clarity and ambient air quality.

### Safe and harmless

AOP is a unique and free of harmful chemicals technology, safe operation in vacuum conditions, is the achievements of more than 30 years of water treatment experience, in the disinfection process, no additional chemicals are added, discard the irritating smell of traditional chlorine disinfection, while destroying chloramines, reducing the irritation of swimmers' eyes, skin and respiratory system. and providing a safe and secure swimming environment.

### Degradation ability

AOP (Advanced Oxidation Process) can form hydroxyl radicals, oxidize and decompose most microorganisms and organic matter into CO<sub>2</sub> and water, and can completely decompose and degrade microorganisms and organic matter in water.

## Product parameters:

Model	AOP 100	AOP 200	AOP 300	AOP 400	AOP 300 PRO	AOP 400 PRO
Water volume	100m <sup>3</sup>	200m <sup>3</sup>	300m <sup>3</sup>	400m <sup>3</sup>	300m <sup>3</sup>	400m <sup>3</sup>
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 <sup>2</sup> ( 8h )	30mj/cm <sup>2</sup> ( 8h )	30mj/cm <sup>2</sup> ( 8h )	30mj/cm <sup>2</sup> ( 8h )	30mj/cm <sup>2</sup> ( 8h )	30mj/cm <sup>2</sup> ( 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 <sup>3</sup> /h	8m <sup>3</sup> /h	12.5m <sup>3</sup> /h	16.5m <sup>3</sup> /h	12.5m <sup>3</sup> /h	16.5m <sup>3</sup> /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					

## UV STERILIZER DISINFECTING EQUIPMENT



Thread connection



Flange connection



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.

## UV STERILIZER DISINFECTING EQUIPMENT

Model	Power (W)	Rated flow (m <sup>3</sup> /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.



# OZONE GENERATOR DISINFECTING EQUIPMENT

The ozone generator of this system adopts an integrated integrated design, and this series of ozone generators are easy to install and operate. The core device of the ozone generator of this system uses a connected DTA non-glass discharge body, with large ozone production and high ozone concentration. It has independently developed special ozone power supply, with reasonable overall matching and stronger adaptability. This type of equipment adopts special gas source treatment technology, which is more reliable than other gas source treatment methods. The equipment is more suitable for the humid environment unique to the swimming pool. It has high operating stability and a long service life of the equipment.



### Product components:

- Ozone generation device (ozone generation cavity, discharge tube, high-voltage fuse)
- Power supply device (including high-voltage transformer, DC reactor, incoming reactor, rectifier inverter, etc.)
- Control device (including circuit board, power meter, ozone production adjustment knob, etc.)
- Gas source device (including high-pressure fan or air compressor, special adsorption and drying device, etc.)
- Instrument pipeline device (gas flow meter, check valve, regulation valve, etc.)
- PLC control system (automatic control type)



### Features:

- The outer electrode tube is made of 316L stainless steel, and the discharge body is made of imported dielectric coating raw materials.
- Special discharge technology is adopted, and is dedicated to swimming pools. It has strong targetedness and high adaptability and adopts special gas source treatment method. It has high drying efficiency and good air source quality, making it more suitable for humid environments in the swimming pool computer room.
- The patented enamel discharge body has high strength, excellent heat resistance and pressure resistance, and is easy to maintain.
- Ozone production can achieve smooth adjustment, high ozone concentration, large output, more stable equipment performance and longer life.
- The equipment has a series of operation monitoring and protection functions such as current, voltage, temperature, flow rate, gas pressure, and operating status.
- Equipment control is divided into two types: manual and automatic, and can be selected according to the usage requirements.



Air source positive pressure preparation, Negative pressure dosing  
(including air sources treatment and booster pump, excluding ozone reaction tank)

Model	Ozone production (g/h)	Ozone concentration (mg/L)	Cooling water flow (m <sup>3</sup> /h)	power supply (V/Hz)	Average operating power (kW)	Water Inlet / outlet size	External dimensions (mm)
WL-CF-G-10	10	≥25	0.04	220/50	1.3	G1"	1050×600×1570
WL-CF-G-20	20		0.08		2.07	G1-1/4"	1050×600×1570
WL-CF-G-30	30		0.12		2.17	G1-1/4"	1050×600×1570

Air source negative pressure preparation, Negative pressure dosing  
(including air sources treatment and booster pump, excluding ozone reaction tank)

Model	Ozone production (g/h)	Ozone concentration (mg/L)	Cooling water flow (m <sup>3</sup> /h)	power supply (V/Hz)	Average operating power (kW)	Water Inlet / outlet size	External dimensions (mm)
WL-SF-G-20	20	≥20	0.08	380/50	2.2	G1"	1300×800×1700
WL-SF-G-25	25		0.1		2.85	G1-1/4"	1300×800×1700
WL-SF-G-40	40		0.16		4.15	G1-1/2"	1400×800×1700
WL-SF-G-50	50		0.2		4.25	G1-1/2"	1400×800×1700
WL-SF-G-60	60		0.24		5.95	G2"	1400×800×1700
WL-SF-G-80	80		0.32		6.35	G2"	1900×800×1700
WL-SF-G-100	100		0.4		8.25	Inlet G2" outlet G2-1/2"	2100×800×1700





# MEDIUM PRESSURE UV STERILIZER DISINFECTING EQUIPMENT

Medium-pressure ultraviolet rays are a very effective disinfection method. The light intensity emitted by medium-pressure ultraviolet rays is dozens to nearly a hundred times that of low-pressure lamps. The wavelength output by the lamp tube is wider. It can kill all bacteria and viruses between 230nm and 370nm. While destroying the DNA structure of microorganisms, it also decomposes microorganisms into small fragments, which can inactivate chlorine-resistant microorganisms forever, causing microorganisms to completely lose their ability to regenerate and resurrection. The use of medium-pressure ultraviolet rays in water environments such as swimming pools can not only be used for disinfection, but also decompose chloramine, reduce disinfection by-products, and make the water environment more comfortable and healthy.



DISINFECTING  
EQUIPMENT

DISINFECTING  
EQUIPMENT

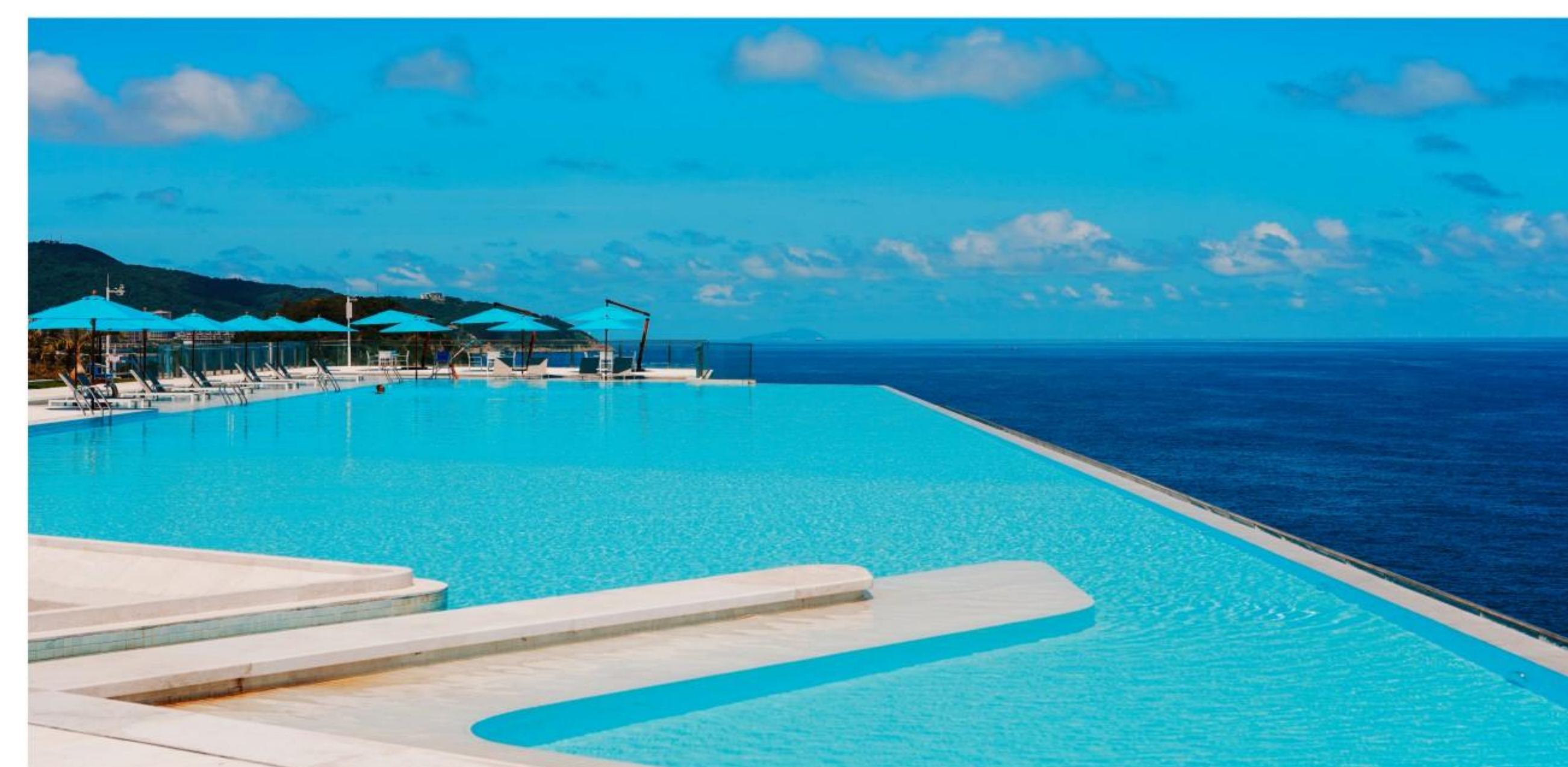
## Product Advantages:

- Wide range of sterilization**  
 It can permanently inactivate chlorine-resistant microbial tissues such as Legionella pneumophila, E. coli, Pseudomonas, Cryptosporidium, Amoeba and bacteria.
- Strong sterilization effect**  
 It can avoid the light resurrection and dark repair of DNA in microorganisms, and can have a long-term inactivation effect on microorganisms, without resurrection reactions, and without the phenomenon of bacterium rebound.
- No secondary pollution**  
 During the disinfection process, there will be no toxic and harmful by-products, no changes in the composition and properties of the disinfected water, and no secondary pollution to the water body and the surrounding environment.
- Decompose residual chlorine in water and degrade compound chlorine**  
 It has the ability to degrade compound chlorine, including monochloramine, dichloramine, trichloramine, etc., which effectively eliminates the production of carcinogen trihalomethane and its impact on the human body.
- Low cost of use**  
 Disinfection and maintenance are simple and low operating costs, and can reach RMB 4 per ton of water at the processing capacity of 1,000 tons.
- Easy to install and operate**  
 Modular design, easy installation, suitable for complex installation site conditions, and does not damage the equipment, pipelines and building structures on site. Can be installed directly into the pipe, with optional horizontal and vertical
- Small footprint, no noise**  
 The medium-pressure ultraviolet disinfection equipment that processes 10,000 tons of water purification per day only requires 6 square meters of operating space.
- Continuous large amount of water disinfection**  
 At present, in actual application, ultraviolet disinfection technology has reached 1.5 million tons of water per day. If it is actually needed, it can be even larger. This is difficult to achieve chlorine plus dechlorination and ozone disinfection methods.

## Features:

- Medium voltage ultraviolet lamp**  
 It adopts medium-pressure high-quality UV light source brand imported from the United States, which has high power, reduces the number of lamp configurations, and can handle large flow water bodies.
- Temperature probe**  
 The water temperature is immediately detected to ensure that the equipment operates at a working temperature of 0-45 degrees.
- UV intensity probe**  
 The intensity monitor used in the medium-pressure UV sterilizer is only responsive to specific UV wavelengths with sterilization effects. It can be connected to computers and PLCs, saving power consumption for the operation of the
- Quartz casing**  
 In order to better protect the ultraviolet lamp, there will be a quartz casing outside each ultraviolet lamp. The high-quality quartz casing can ensure that the ultraviolet penetration rate reaches more than 90%.
- Daily cleaning**  
 It is equipped with an automatic cleaning system, which can automatically clean the quartz casing according to the reading of the ultraviolet intensity detector. The system operates normally during the cleaning process, without water outage or manual participation, which greatly reduces the workload of on-site personnel.

Model	Disinfection power (kW)	Lamp power (kW)	Number of lamps	Water volume (T/H)	Inlet /outlet pipe diameter	Power supply voltage	External dimensions	Chassis size	Remark
WL-UUVC-1/1.0kW	1.0	1.0	1	30-40	DN100	380V 50Hz	600*750*400	500*280*600	304 Stainless steel
WL-UUVC-1/2.0kW	2.0	2.0	1	60-80	DN125	380V 50Hz	600*800*450	520*280*1060	
WL-UUVC-1/3.0kW	3.0	3.0	1	100-125	DN150	380V 50Hz	640*860*500	520*280*1060	
WL-UUVC-2/2.0kW	4.0	2.0	2	130-150	DN200	380V 50Hz	700*860*500	570*280*1060	
WL-UUVC-2/3.0kW	6.0	3.0	2	200-250	DN250	380V 50Hz	700*910*550	570*280*1160	
WL-UUVC-3/3.0kW	9.0	3.0	3	300	DN250	380V 50Hz	700*960*600	650*350*1360	
WL-UUVC-4/3.0kW	12.0	3.0	4	450-550	DN300	380V 50Hz	800*1060*700	700*400*1700	
WL-UUVC-5/3.0kW	15.0	3.0	5	600-700	DN350	380V 50Hz	800*1060*700	800*450*1800	
WL-UUVC-6/3.0kW	18.0	3.0	6	750-850	DN400	380V 50Hz	940*1160*750	800*450*1800	
WL-UUVC-7/3.0kW	21.0	3.0	7	1000-1200	DN450	380V 50Hz	940*1160*750	850*500*1800	



## MEDIUM PRESSURE UV STERILIZER DISINFECTING EQUIPMENT

Medium pressure ultraviolet (UV) disinfection systems, with unique design and operational approach, offer a more effective disinfection solution compared to low-pressure UV systems. The light intensity emitted by medium pressure UV lamps is dozens of times greater than that of low-pressure lamps. This not only destroys microbial DNA completely (by breaking thymine parts) but also effectively inactivates the enzyme responsible for microbial replication, rendering microorganisms permanently incapable of regeneration. Moreover, for the same types of microorganisms, the germicidal effectiveness of medium-pressure lamps far exceeds that of low-pressure lamps.

Medium-pressure ultraviolet (UV) disinfection systems can be installed in both horizontal and vertical pipeline configurations. Designed based on Computational Fluid Dynamics (CFD), these systems minimize hydraulic losses while ensuring effective disinfection performance. Moreover, compared to conventional low-pressure UV systems, the significantly reduced number of lamp tubes greatly enhances maintenance convenience.

### Control System:

#### Standard Functions:

- PLC controller + Touchscreen display panel
- HMI can display the operating parameters of each lamp tube (including status, current, power, current and cumulative operating hours)
- Manual/Automatic Mode (with remote lamp activation and deactivation in automatic mode)
- Fault alarm passive signal output
- Manual or remote adjustment of lamp output power
- Manual calibration of UV light intensity probe required when replacing new lamp tubes

#### Optional Function: Remote Communication

- Enclosure Material: Carbon Steel with Baking Paint Finish (304/316 Stainless Steel Optional)

#### Mounting Options: Wall-mounted / Floor-standing

- Cooling Method: Forced Air Cooling

### Product Features:

- Equipped with imported medium-pressure UV lamp tubes from Europe and the United States, with a service life of 5,000 hours.
- The intensity of UV light is 20-200 times higher than that of conventional low-pressure high-output lamps.
- The lamp output power can be manually or automatically adjusted within a range of 50-100% (except for the MPUV-0.5KW1 model).
- Air-cooled Electronic Ballast
- Patented Automatic Quartz Sleeve Cleaning Technology, no Manual or Chemical Cleaning Required
- Touchscreen HMI
- Comprehensive Online Monitoring and Protection Functions



### On-line Monitor:

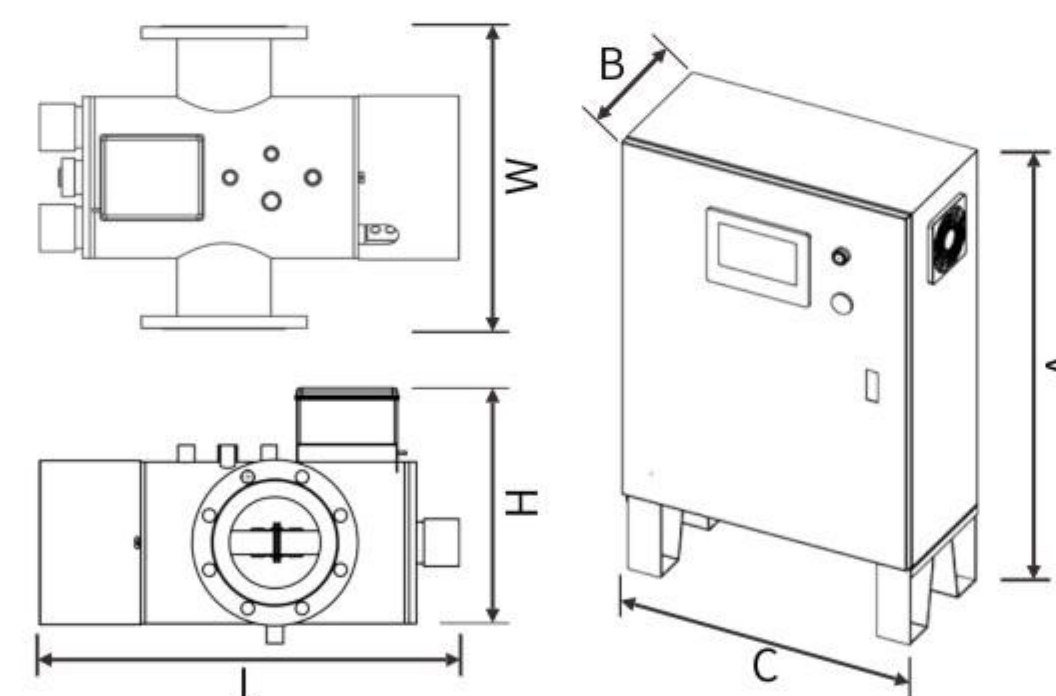
Ultraviolet Intensity Monitoring: Optional UV sensor for real-time monitoring of ultraviolet intensity

Water Temperature Monitoring: Equipped with water temperature probe for real-time monitoring of the reactor water temperature

### Operating Condition:

Ambient Environment: Indoor use, temperature range 5°C to 35°C, humidity <80%

Water Temperature Range: Recommended 5°C to 40°C (at rated flow rate)



Model	Flow Rate (m <sup>3</sup> /Hr)	Power Requirement (VAC, 50Hz)	Total Power of lamp (kW)	Work Pressure (Mpa)	Connection Size	Reactor Size (mm)			Electrical Control Box Size (mm)		
						L	W	H	A	B	C
WL-ZTZW500Z/S/W	20	220V	0.5kWx1	0.7	DN100	550	380	419	475	180	693
WL-ZTZW1000Z/S/W	45	220V	1.0kWx1	0.7	DN100	620	380	419	570	283	893
WL-ZTZW2000Z/S/W	85	380V	2.0kWx1	0.7	DN150	720	380	419	570	283	893
WL-ZTZW3000AZ/S/W	145	380V	3.0kWx1	0.7	DN150	720	380	419	570	283	893
WL-ZTZW4000Z/S/W	200	380V	2.0kWx2	0.7	DN200	730	435	543	680	283	983
WL-ZTZW6000Z/S/W	300	380V	3.0kWx2	0.7	DN250	730	485	595	680	283	983
WL-ZTZW9000Z/S/W	475	380V	3.0kWx3	0.7	DN300	730	516	585	826	320	1200
WL-ZTZW12000Z/S/W	650	380V	3.0kWx4	0.7	DN350	780	570	585	826	320	1200
WL-ZTZW15000Z/S/W	825	380V	3.0kWx5	0.7	DN350	780	570	585	1600	375	780
WL-ZTZW18000Z/S/W	1000	380V	3.0kWx6	0.7	DN400	780	630	586	1600	375	780

Note: The flow rates in the above design parameters are specified for pools and water parks.

WL-ZTZW15000Z/S/W and WL-ZTZW18000Z/S/W are equipped with floor-standing control cabinets, while the electric control boxes for the other models support either wall-mounted or floor-standing installation.

Power Supply Option: 60Hz Available upon request.

## SODIUM HYPOCHLORITE GENERATOR DISINFECTING EQUIPMENT



It adopts a skid-mounted integrated structure for easy installation; it can also be made into a disassembled and assembly structure according to the special requirements of the project, which is convenient for transportation and on-site handling. The electrode uses the world-famous enterprise - the Netherlands Machneto anode, with a golden ratio titanium plate spacing, which achieves efficient chlorine production and maximizes the service life of the electrode.

The best combination of salt and electricity consumption (can be customized for special requirements), achieving efficient chlorine production while ensuring equipment energy consumption.

Models with chlorine production capacity of 1000 grams per hour or less are not pickled, making it more convenient to use.

A mandatory hydrogen discharge design that is 3 times higher than the national security standard ensures safe use.

Integrated design and complete configuration. When using it, you only need to add salt to the dissolved salt bucket regularly. The structure is compact and the area is small. The installation only requires connecting the tap water inlet pipe, the chemical injection outlet, the drain pipe, and the hydrogen drain pipe (induced to the outdoors). Equipped with world-renowned brands of metering pump (ProMinent), with stable quality and ensuring the efficiency of add-on injection of the agent; customers can also independently equip the metering pump according to the actual situation of the project; the volume of the dissolved salt barrel and storage barrel can be customized according to the requirements.

### Installation and use precautions:

The optimal water inlet temperature for the sodium hypochlorite generator to operate is 12 - 26 °C. Below or above this water temperature range will reduce the chlorine production efficiency. Please equip tap water constant temperature equipment according to actual conditions.

The salt used for electrolysis of sodium hypochlorite generators must be iodine-free and clean sea salt. Do not use industrial salts containing iodine salts and more impurities, as they may damage the generator.

Model	Effective chlorine production (g/h)	Electrolytic current (A)	Voltage (V)	Total power (kW)	Floor area dimensions (m)	Equipment room height (m)
WL-CL100g	100	19	30	2	1.3×1.6	>2.5
WL-CL200g	200	38	30	2.5	1.3×1.6	>2.5
WL-CL300g	300	56	30	3	1.3×1.6	>2.5
WL-CL500g	500	92	30	4	1.3×1.6	>2.5
WL-CL800g	800	75	60	5.5	3×6	>2.5
WL-CL1000g	1000	92	60	7	3×6	>3.0
WL-CL2000g	2000	140	80	15	5×8	>3.0
WL-CL3000g	3000	140	110	21	6×8	>3.0

SMARTER WATER FOR A  
SMARTER HOME

05

# HEAT PUMP



# NORMAL TEMPERATURE POOL HEAT PUMP

LASWIM normal temperature commercial swimming pool heat pump is designed with titanium heat exchanger, can effectively resist the corrosion of chloride ion in pool water. This series heat pump is a reliable and energy-saving solution for pools in hotels, SPA, water parks, gyms, competition pool, etc.

## Features:

- Intelligent control for constant pool water temperature (max 40°C).
- Wide working air temperature range: -5°C to 43°C.
- Anti-corrosion titanium in PVC heat exchanger for durable use.
- Multiple protections for safe operation and long service life.
- The housing adopts high-quality galvanized sheet, with strong corrosion resistance.
- Powerful centralized control and remote control is available for convenient operation and maintenance.
- Automatic and forced defrosting function.



LAS70-KP - LAS105-KP



LAS21-KP



LAS35-KP - LAS52-KP



## Evaporator:

- With large surface for big air flow and good heat absorption.
- With great corrosion and heat resistance, COP is stable.



## Intelligent and high efficient control system:

- Automatic electric control system with a touch display, the operation and settings are more easy and convenient.
- The control panel adopts advanced SMT technology and ST micro-computer chip, with stable & reliable performance and powerful functions.



## Dual coil Titanium heat exchanger:

- Enlarges the heat exchanging surface that increases efficiency by providing an sufficient action area.
- Effectively resists the corrosion of chloride in water.



## International standard compressor:

- International famous brand compressor with precise energy stage settings ensures the working unit to achieve the desired energy saving effect.



## Electric expansion valve:

- Automatically adjust the refrigerant flow rate, ensuring the units operate with high efficiency in all weather conditions.



# FULL DC INVERTER COMMERCIAL SWIMMING POOL HEAT PUMP

## Technical parameters

Model		LAS21-KP	LAS35-KP	LAS42-KP	LAS52-KP	LAS70-KP	LAS85-KP	LAS105-KP
A24/W26 condition	Heating capacity (kW)	28.3	45.5	56.2	68.1	91.0	109.1	132.4
	COP	6.63	6.66	6.72	6.77	6.66	6.69	6.73
A20/W26 condition	Heating capacity (kW)	25.0	40.2	49.6	60.2	80.4	96.4	117.1
	COP	5.97	6.00	6.05	6.08	6.00	6.03	6.01
A7/W26 condition	Heating capacity (kW)	18.4	30.6	37.9	45.8	61.2	73.6	89.1
	COP	4.50	4.57	4.62	4.63	4.57	4.60	4.57
Cooling condition (35°C)	Cooling capacity (kW)	15.4	26.8	33.2	40.1	53.6	64.4	78.1
	EER	3.44	3.45	3.49	3.50	3.45	3.47	3.46
Power supply		380V/3N/50Hz						
Rated input power (kW)		4.2	6.7	8.2	9.9	13.4	16.0	19.5
Rated input current (A)		7.5	12.0	14.3	17.7	23.9	28.6	34.8
Maximum input power (kW)		7.1	11.8	14.2	16.5	23.6	28.4	33.0
Maximum input current (A)		11.9	19.8	23.8	27.7	39.6	47.6	55.4
Maximum outlet water temperature (°C)		40						
Grade of waterproof		IPX4						
Anti-shock type		I						
Operating air temperature (°C)		-5°C ~ 43°C						
Heat exchanger		PVC+Titanium						
Maximum pressure (MPa)		4.2						
Refrigerant		R410A						
Noise Level dB(A)		≤ 65	≤ 68	≤ 68	≤ 68	≤ 70	≤ 70	≤ 70
Water inlet/outlet size		DN40(Internal)	DN40(Internal)	DN40(Internal)	DN50(Internal)	DN50(Internal)	DN65(Internal)	DN65(Internal)
Circulating water flow rate (m³/h)		6	10	12	15	20	25	30
Water pressure drop (kPa)		47	48	50	50	51	53	55
Net weight (kg)		140	260	280	300	460	520	560
Dimensions	Length (mm)	745	1425	1425	1425	2250	2250	2250
	Width (mm)	745	745	745	745	1035	1035	1035
	Height (mm)	1100	1100	1100	1100	1210	1210	1210

### Remarks :

- A24/W26 Standard heating condition: 24°C DB, 19°C WB, inlet water temperature 26°C;
- A20/W26 Standard heating condition: 20°C DB, 15°C WB, inlet water temperature 26°C;
- A7/W26 condition: 7°C DB, 6°C WB, inlet water temperature 26°C;
- Cooling condition: 35°C DB, 27°C WB, inlet water temperature 28°C;
- Due to the continuous improvement of products, the actual data will be subject to change without prior notice, please refer to the nameplate.

LASWIM full DC inverter commercial heat pump for swimming pool utilizes advanced inverter technology. By precisely adjusting the fan and compressor's operating speed, it can adjust the output according to actual demand. While achieving energy-saving constant temperature, it is quieter and smarter.

This heat pump is specially optimized for low-temperature environments and can operate efficiently at a low ambient temperature of -20°C, making it an ideal choice for maintaining constant water temperature in various locations, such as swimming pools, hot spring resorts, and water parks.



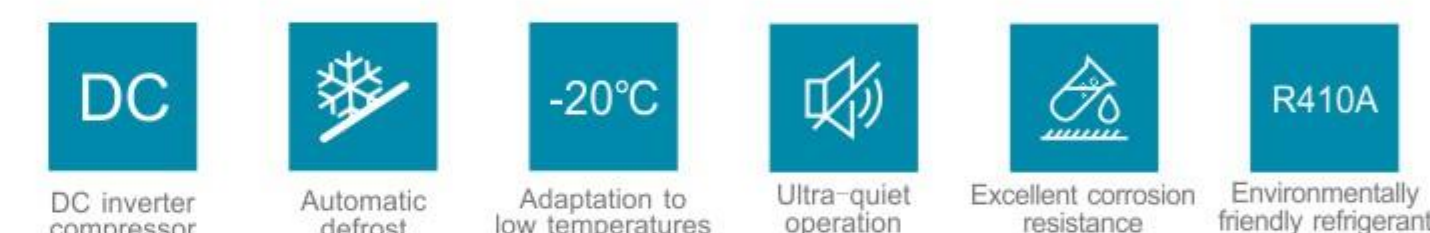
LAS35-KP-BPL(RaA), LAS52-KP-BPL(RaA)



LAS70-KP-BPL(RaA), LAS105-KP-BPL(RaA)

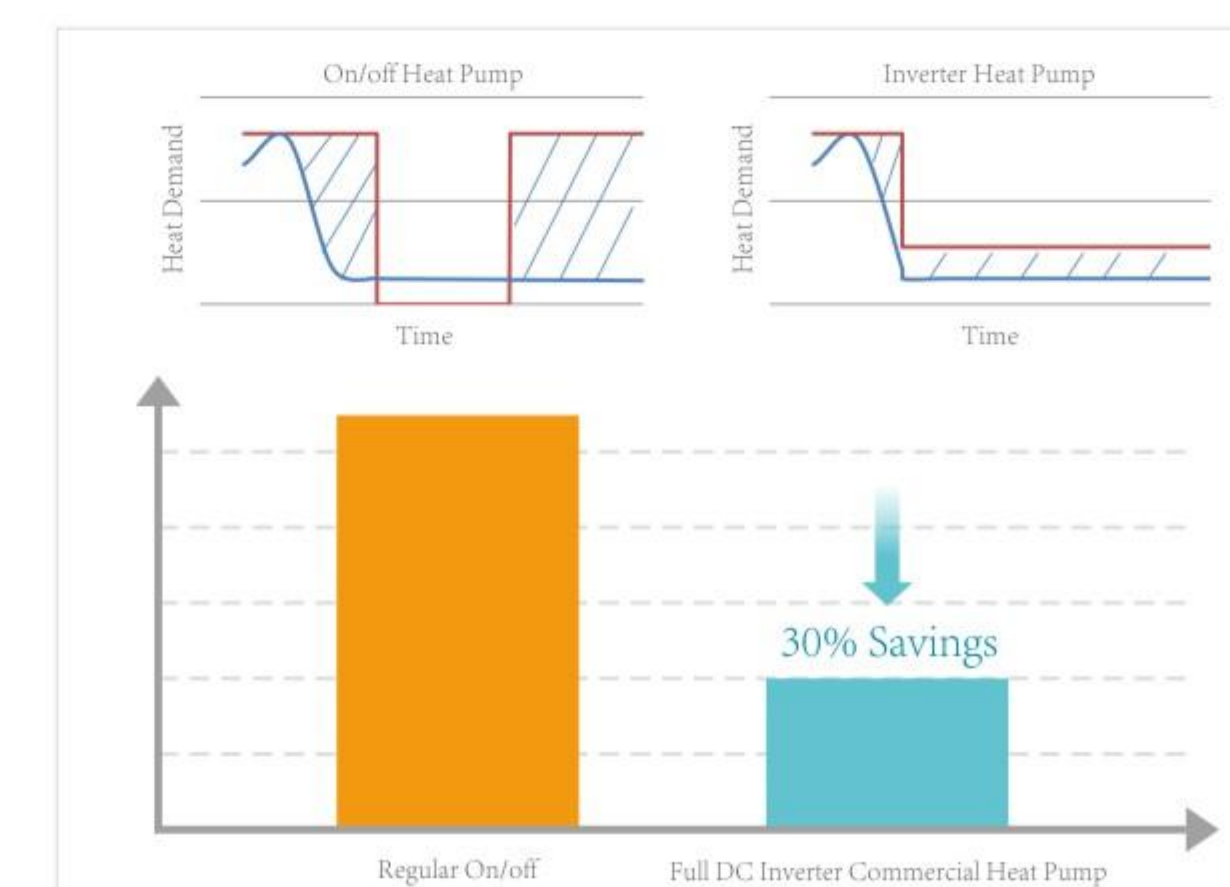
## Features:

- Full DC inverter technology, providing more energy-efficient and effective pool heating.
- Intelligent operation modes with various settings, offering 30% more heat compared to traditional on/off heat pump.
- Operates in silent mode during late nights, ensuring a quiet environment .
- Large LED screen for easy status checking.
- Environmentally friendly R410A refrigerant.
- Optimal performance options available for large scale pools.
- Automatic fast defrosting through cyclic inverter operation.
- Remote control via smart phone app (free).
- Refrigerant throttling for stable high efficiency.
- Intelligent detection, control, and anti-freeze protection.



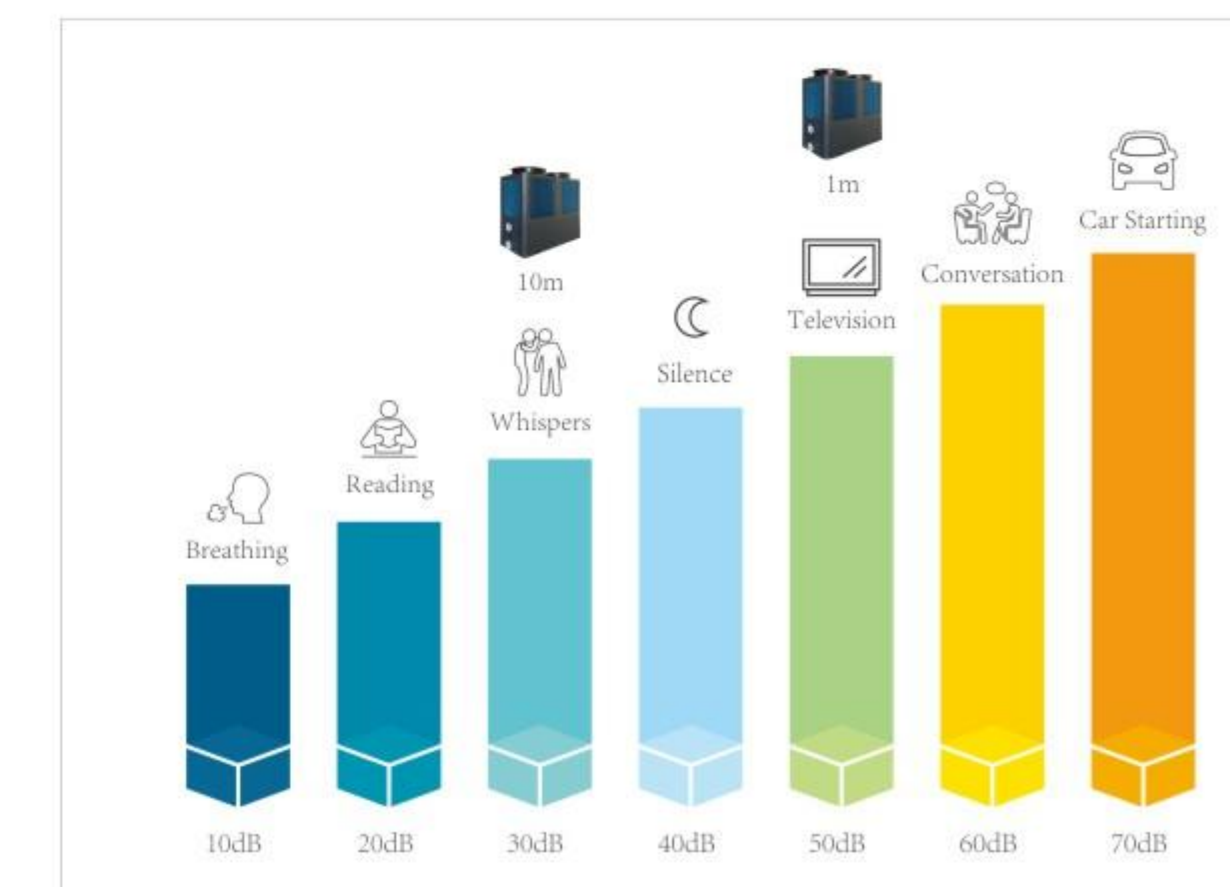
## ● Full DC Inverter Energy Saving Technology

During the initial heating phase, the inverter heat pump operates at high speed to warm up the pool quickly. During the swimming season, it operates at a lower speed when maintaining a constant water temperature, ensuring more stable operation without the need for frequent starts and stops, thereby achieving efficient energy savings.



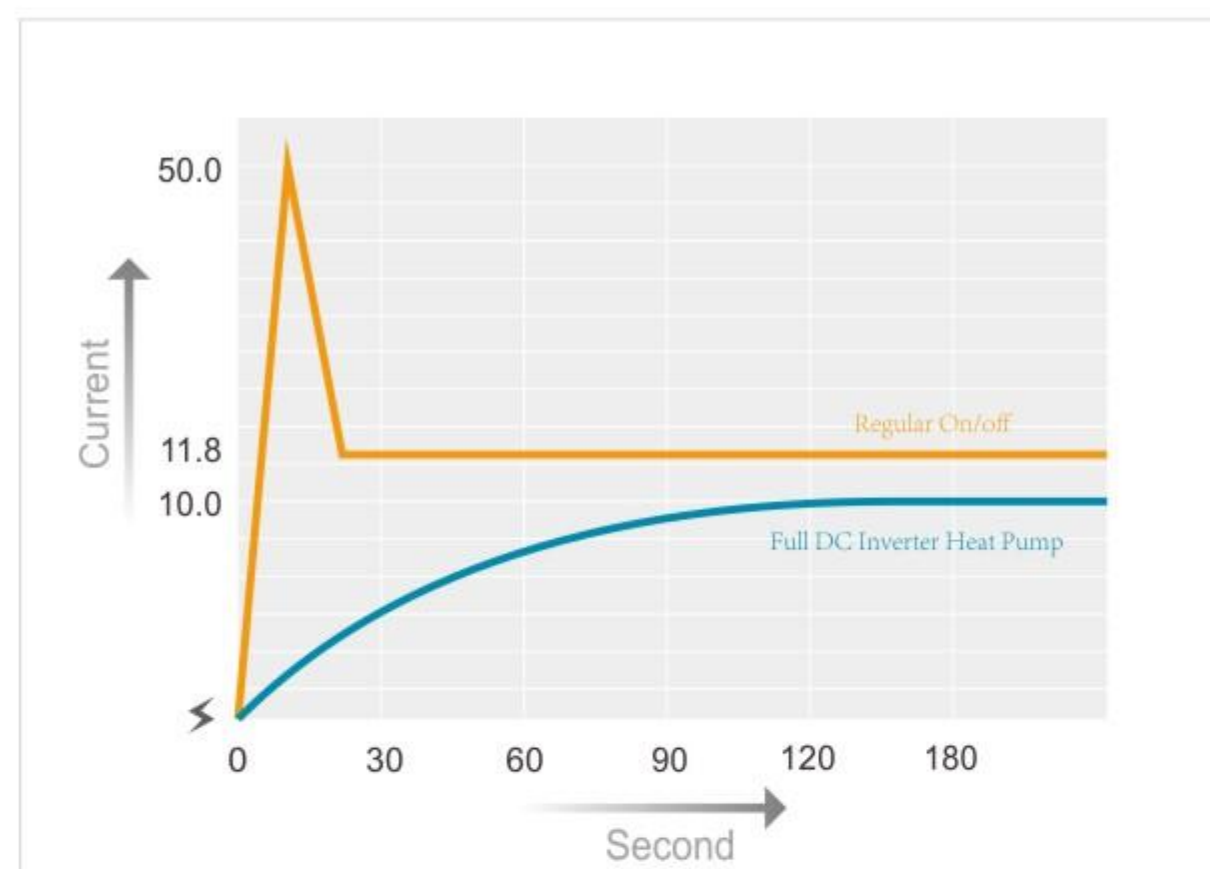
## ● Ultra-quiet Operation

Adopts specially designed fan blades, not only saves energy, but also helps reduce operational noise by 20%. Noise level at 1 meter is similar to TV , and noise level at 10 meters is equivalent to human whispers.



• **Soft Start**

During startup, its soft start technology prevents sudden power fluctuations, thereby protecting the circuit.



• **Wide Climate Application**

It can adapt to a wide range of climates, maintaining stable operation from -20°C to 43°C.



**Technical parameters**

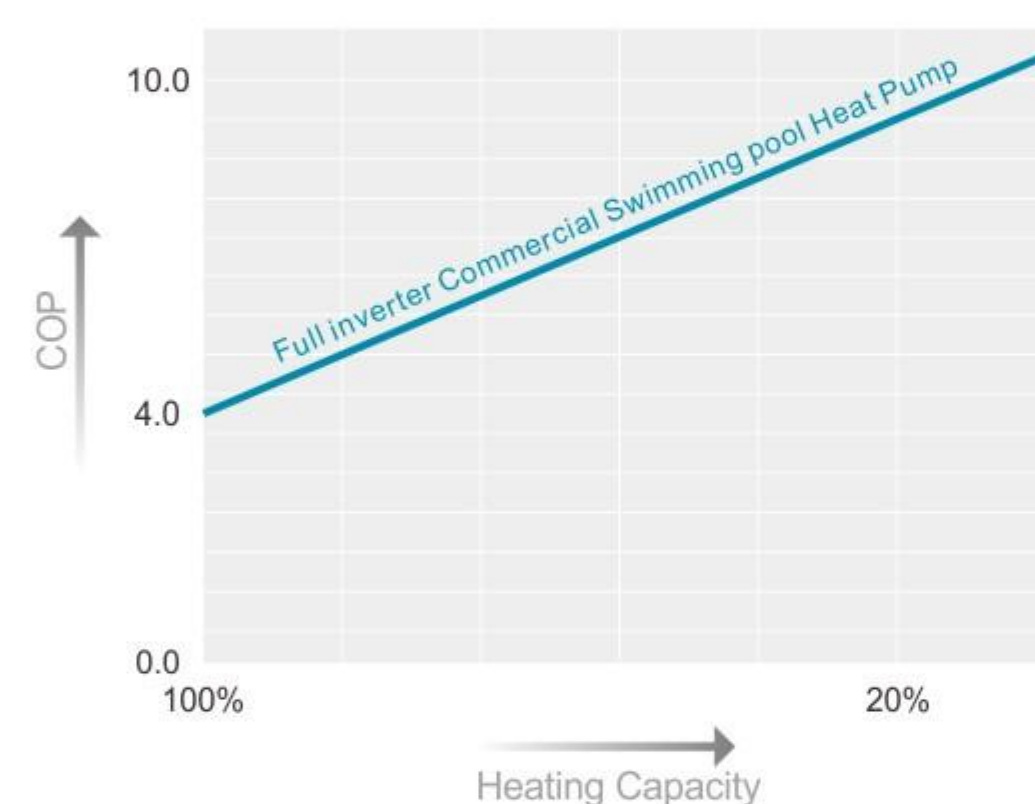
Model	LAS35-KP-BPL(RaA)	LAS52-KP-BPL(RaA)	LAS70-KP-BPL(RaA)	LAS105-KP-BPL(RaA)
Performance conditions: Air: 20°C / Water: 26°C				
Max. Heating Capacity	kW 42.0	52.3	85.2	105.0
Heating Capacity	kW 12.8-42.0	15.8-52.3	29.2-85.2	32.0-105.0
COP	---- 9.7-5.1	9.6-5.1	9.6-5.0	9.8-5.2
Average COP (50% operating speed)	---- 7.5	7.5	7.4	7.6
Performance conditions: Air: 15°C / Water: 26°C				
Max. Heating Capacity	kW 37.5	47.2	72.0	94.5
Heating Capacity	kW 13-37.5	15-47.2	26.3-72	27.7-94.5
COP	COP 8.1-4.2	8.2-4.6	8.2-4.3	8.4-4.7
Average COP (50% operating speed)	---- 6.1	6.3	6.2	6.5
Performance conditions: Air: 7°C / Water: 26°C				
Max. Heating Capacity	kW 33.0	40.9	66.0	80.0
Heating Capacity	kW 9.3-33	11-40.9	18.3-66	20.0-80.0
COP	---- 5.02-3.45	5.3-3.61	5.02-3.45	6.0-4.0
Average COP (50% operating speed)	---- 4.5	4.8	4.4	5.0
Performance conditions: Air: -7°C / Water: 26°C				
Max. Heating Capacity	kW 20.5	27.6	40.5	47.5
Heating Capacity	kW 6.5-20.5	7.1-27.6	12.8-40.5	13.5-47.5
COP	---- 4.1-2.85	4.2-2.84	4.1-2.83	4.1-2.82
Average COP (50% operating speed)	---- 3.6	3.5	3.6	3.5
Performance conditions: Air: -12°C / Water: 26°C				
Max. Heating Capacity	kW 16.5	24.6	32.5	40.5
Heating Capacity	kW 6.5-16.5	7.1-24.6	12.8-32.5	13.5-40.5
COP	---- 3.9-2.52	3.9-2.54	3.9-2.58	3.9-2.51
Average COP (50% operating speed)	---- 2.8	2.9	2.7	2.7
Performance conditions: Air: -20°C / Water: 26°C				
Max. Heating Capacity	kW 13.5	19.6	27.8	37.5
Heating Capacity	kW 5.2-13.5	6.5-19.6	10.5-27.8	11.6-37.5
COP	---- 3.4-2.11	3.5-2.1	3.4-2.11	3.5-1.8
Average COP (50% operating speed)	---- 2.5	2.6	2.6	2.5
Operating Ambient Temperature	°C -20°C-43°C			
Power Supply	---- 380V/3N~/50Hz/60Hz			
Heat Exchanger	---- PVC+Titanium			
Compressor	---- Scroll Compressor			
Refrigerant	---- R410A			
Rated Input Power	kW 1.2-7.5	1.6-11.1	2.1-14.5	3.3-20.2
50% Operating Speed Input Power	kW 2.8	3.5	5.8	10.1
Rated Input Current	A 1.8-11.5	2.4-17.2	3.2-22.2	5.1-40.0
Maximum Input Current	A 14.4	22.0	28.0	55.0
Maximum Input Power	kW 9.4	14.3	18.2	25.0
Waterproof rating	---- IPX4			
Electric Shock Protection	---- Class I			
Maximum System Pressure	MPa 4.2			
Recommended Power Cable	mm² 5×4.0	5×4.0	5×6.0	5×10.0
Fan Speed	rpm 450-1000	450-1000	450-1000	450-1000
Noise at 1m	dB(A) 55.0-64	56-65	55.0-64	56.8-65
1m Noise at 50% Operating Speed	dB(A) 53.9	56.6	58.5	60.5
Noise at 10m	dB(A) 26.5-50.2	27.5-51.2	28.5-52.2	29.5-53.2
Recommended Water Flow Rate	m³/h 12-18	15-23	25-36	30-45
Inlet/Outlet Size	mm DN50 (Internal Thread Connection)	mm DN50 (Internal Thread Connection)	mm DN80 (Flange Connection)	mm DN80 (Flange Connection)
Water Pressure Drop	kPa 40	40	45	45
Net Weight	kg 260	290	450	580
Dimensions	mm 1550×520×1650	1550×520×1650	1950×1020×2130	1950×1020×2130

Note: The above data may be subject to change without further notice. Please refer to the nameplate parameters for the accurate information.

**High-Quality Components**

• **Imported Brand Inverter Compressor**

Equipped with multiple inverter compressors and optimized operation, this series of inverter heat pumps has a COP of up to 10 and significantly reduced noise levels.



• **High-Quality Variable Frequency Fan**

High-performance DC inverter fan with a compact integrated design, facilitating maintenance, reducing noise, and enhancing performance.

• **Extra-large Finned Condenser**

Adopting anti-frost coating fins and corrugated edge spoiler, which further enhances the effect of the spoiler on the strong wind side, improves the heat transfer coefficient, prolongs the frost-free operation time and improves the SCOP.



• **Optimized Structure and Anti-corrosion Coated Sheet Metal**

Special processing techniques are applied to the materials and surfaces, widely recognized for their corrosion resistance and quality in withstanding wind and rain.

# DYC SERIES MULTIFUNCTIONAL DEHUMIDIFICATION HEAT PUMP



HEAT PUMP

HEAT PUMP

## Product Features:

- **Multi-functional to meet the needs of swimming pools in all seasons**

LASWIM DYC series have multi-functional of dehumidification, water heating, heat recovery, and fresh air treatment to create a high-quality air environment for swimming pools.

- **Large circulation air volume design**

This heat pump is designed with large circulating air volume, which increases the dehumidifying capacity of the unit and greatly improves the user's experience in the swimming pool.

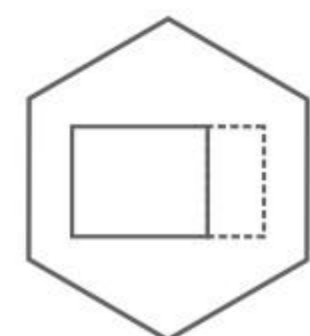
- **Intelligent design, easy installation**

Through perfect pre-sales service and engineering application design, LASWIM can carry out customised intelligent design for dehumidification heat pump products to effectively solve various engineering problems such as poor installation of outdoor heat dissipation condenser.

- **Compact size, small floor space**

- **Automatic control, intelligent, convenient and worry-free**

DYC series heat pump can automatically balance the heating capacity of pool water heating and air heating; automatically switch the operation mode according to the temperature and humidity of the venue, automatically dehumidify the pool at constant temperature, automatically run at regular intervals according to the pre-set operation time, automatically determine the number of system start-ups according to the load condition of the venue, and effectively avoid damages or malfunction alarms due to the poor heat dissipation of the outdoor condenser. The system is designed to avoid damage to the outdoor condenser or malfunction alarms due to poor heat dissipation.



Compact model  
Length shortened by 20%



Refrigerant  
R410A



Modular structure, easy  
to install and maintain



High-quality  
components, Stable  
operation and low  
failure rate



Electricity and  
water separated

## Technical parameters

Model	LAS40-DYC	LAS50-DYC	LAS65-DYC	LAS80-DYC	LAS100-DYC	LAS120-DYC	
Dehumidification capacity (kg/h)	40	50	65	80	100	120	
Pool water heat recovery capacity (kW)	63	79	110	136	164	192	
Evaporator cooling capacity (kW)	56	69	95	118	143	167	
Standard air volume (m³/h)	10000~12500	11000~15000	14000~18000	16000~20000	20000~27000	23000~31000	
External residual pressure (Pa)	450	450	450	450	450	550	
Power supply	380V/3N~/50Hz						
Rated input power (kW)	21.6	28.4	33.6	42.0	50.7	59.9	
Rated input current (A)	62	81	96	120	145	171	
Weight (Kg)	1200	1350	1550	1800	2300	2550	
Dimension	L (mm)	3935	4035	4235	4535	5435	
	W (mm)	1684	1885	1885	1984	2220	2220
	H (mm)	1500	1500	1800	2030	2030	2030
Fan							
Fan QTY	2	2	2	2	2	2	
Fan type	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	
Compressor							
Compressor QTY	1	1	1	1	2	2	
Compressor type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	
Auxiliary cooling/heating coil (optional)							
Cooling capacity (kW)	60	60	80	120	120	160	
Cold water flow rate (m³/h)	10.3	10.3	13.8	20.7	20.7	27.6	
Pressure drop(kPa)	40	40	42	45	45	48	
Inlet/Outlet size	DN40	DN40	DN50	DN65	DN65	DN65	
Pool water condenser							
Pool water heat exchanger type	Titanium shell and tube type						
Heating capacity(kW )	63	78	99	123	147	174	
Standard work pressure resistance(MPa)	1	1	1	1	1	1	
Water pressure drop (kPa)	37	38	42	44	45	46	
Max. Water temperature(°C)	40	40	40	40	40	40	
Water flow (m³/h)	12	15	20	25	30	35	
PVC water inlet/outlet size	De63(Internal screw)	De63(Internal screw)	De63(Internal screw)	De63(Internal screw)	De90(Flange)	De90(Flange)	
Outdoor condenser							
Condenser QTY	1	1	1	1	1	2	
Dimension (mm) L×W×H	1232×972×1110	1651×936×1080	1651×936×1080	1981×1060×1315	1981×1060×1315	1651×936×1080 1651×936×1080	
Total Power (kW)	0.6	1.1	1.1	1.1	1.1	2.2	
Weight (kg )	120	143	160	198	219	143+160	
Port size	Φ22/Φ19	Φ22/Φ19	Φ28/Φ22	Φ28/Φ22	Φ22/Φ19/Φ28/Φ22	Φ22/Φ19/Φ28/Φ22	
Model name	LAS12PL	LAS15PL	LAS20PL	LAS25PL	LAS30PL	LAS15PL+LAS20PL	

### REMARK:

Testing condition: ambient air temperature 29°C, relative humidity 65%, pool water condenser inlet water temperature 26°C, outlet water temperature 28°C, outdoor temperature 32°C.

Pool water condenser: If cooling or heating capacity is insufficient, auxiliary cooling/heating coil can be selected according to the actual heat exchange demand. The cooling capacity is calculated as inlet water temperature 7°C, heating capacity is calculated as inlet water temperature 60°C.

External residual pressure can be adjusted as required.

Outdoor condenser can be set to a water-cooled condenser according to user's requirements.

The unit structure can be made into split structure according to user's requirements.

The data is subject to change without prior notice to due to product improvements.

# DH SERIES DEHUMIDIFICATION HEAT PUMP







## Technical parameters

Model	LAS140-DYC	LAS150-DYC	LAS165-DYC	LAS180-DYC	LAS200-DYC	
Dehumidification capacity (kg/h)	140	150	165	180	200	
Pool water heat recovery capacity (kW)	217	245	271	299	327	
Evaporator cooling capacity (kW)	189	213	236	260	284	
Standard air volume (m³/h)	26000~34000	30000~40000	32000~42000	36000~46000	40000~52000	
External residual pressure (Pa)	550	550	550	550	550	
Power supply	380V/3N~/50Hz					
Rated input power (kW)	64.5	73.1	78.0	86.7	95.8	
Rated input current (A)	184	208	222	247	273	
Weight (Kg)	2850	3350	3550	3700	3850	
Dimension	L (mm)	5485	5550	5750	6050	
	W (mm)	2220	2350	2550	2550	2800
	H (mm)	2330	2330	2430	2580	2580
<b>Fan</b>						
Fan QTY	2	2	2	2	2	
Fan type	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	
<b>Compressor</b>						
Compressor QTY	2	2	2	3	3	
Compressor type	Scroll	Scroll	Scroll	Scroll	Scroll	
<b>Auxiliary cooling/heating coil (optional)</b>						
Cooling capacity (kW)	160	180	200	240	300	
Cold water flow rate (m³/h)	27.6	31.0	34.4	41.3	51.6	
Pressure drop(kPa)	48	49	49	51	52	
Inlet/Outlet size	D N65	D N65	D N80	D N80	D N100	
<b>Pool water condenser</b>						
Pool water heat exchanger type	Titanium shell and tube type					
Heating capacity(kW )	195	219	243	270	294	
Standard work pressure resistance(MPa)	1	1	1	1	1	
Water pressure drop (kPa)	46	47	47	48	50	
Max. Water temperature(°C)	40	40	40	40	40	
Water flow (m³/h)	40	45	50	55	60	
PVC water inlet/outlet size	De110(Flange)	De110(Flange)	De110(Flange)	De110(Flange)	De110(Flange)	
<b>Outdoor condenser</b>						
Condenser QTY	1	2	2	2	2	
Dimension (mm) L×W×H	2306×1138×1432	1651×936×1080 1981×1060×1315	1981×1060×1315 1981×1060×1315	1981×1060×1315 1981×1060×1315	1651×936×1080 2306×1138×1432	
Total Power (kW)	2.9	2.2	2.2	2.2	4	
Weight (kg )	278	160+198	198+198	198+219	160+278	
Port size	(Φ28/Φ22)×2	(Φ28/Φ22)×2	(Φ28/Φ22)×2	Φ28/Φ22/Φ28/Φ22 Φ22/Φ19	(Φ28/Φ22)×3	
Model name	LAS40PL	LAS20PL+LAS25PL	LAS25PL+LAS25PL	LAS25PL+LAS30PL	LAS20PL+LAS40PL	

## Product Features:

- DH series dehumidification heat pumps are ideal air dehumidification solutions for hotels, villas, and high-class clubhouse swimming pool projects.
- Its compact design is especially suitable for projects with limited space in the machine room.
- Dual-frequency mode can be switched to green energy-saving mode with one key, which significantly reduces power consumption and saves operating costs.
- Adopting the fan with frequency conversion technology, the airflow is adjustable and more comfortable.
- Various measures have been taken to reduce noise and ensure silent operation of the equipment, which improves the user experience.
- High-efficiency compressor and environmentally friendly refrigerant make it powerful and environmentally friendly.
- Remote management system enables unattended operation.

## Product Advantages:

- 
**• Small footprint**  
 Adopting compact design, which greatly saves the floor space, especially for the swimming pool environment with limited space to provide an ideal solution, hotel pools, villa pools, high-class club pools and so on do not need to worry about the limitation of the space of the machine room.
- 
**• Green Energy Saving**  
 Adopting the dual frequency design of high efficiency mode and green mode, which allows users to switch flexibly according to the actual load and usage requirements. A key to the green energy-saving mode, can greatly reduce power consumption, reduce electricity costs, reduce long-term operating costs.
- 
**• Frequency conversion fan**  
 The fan with frequency conversion technology and adjustable airflow can meet the dehumidification requirements of different projects and reduce the noise of the equipment to provide customers with a more comfortable swimming pool environment.
- 
**• High Efficiency and Environmental protection**  
 Adopting imported high-efficiency compressor and 410A environmental protection refrigerant, which can maintain high performance and improve efficiency even at low temperatures, which is not only powerful, but also more friendly to the environment.
- 
**• Quiet Design**  
 DH series dehumidification heat pumps are designed to control noise from the very beginning, with high efficient sound-absorbing materials to strengthen the sound insulation effect. Combined with a silent fan and optimised air ducts, the compressor undergoes professional noise reduction treatment to achieve ultra-quiet operation, making it the ideal choice for swimming pools with stringent noise requirements.
- 
**• Intelligent control**  
 Ergonomically designed touch screen LCD screen, easy to operate; through the Internet access to the WILPONS Intelligent Pool Management System, you can realise remote intelligent control and management of the dehumidification system, to achieve automatic monitoring.



## Technical parameters

Model	LAS30-DH	LAS40-DH	LAS50-DH	LAS60-DH
Dehumidification capacity (kg/h)	30	40	50	60
Pool water heat recovery capacity (kW)	54	71	88	104
Evaporator cooling capacity (kW)	46	60	74	89
Standard air volume (m <sup>3</sup> /h)	9000	10000	12000	15000
External residual pressure (Pa)	350	450	450	450
Power supply	380V/3N~50Hz			
Rated input power (kW)	15.7	20.0	22.9	28.0
Rated input current (A)	45	57	65	80
Weight (Kg)	1000	1200	1500	1700
Dimension	L (mm)	2350	2450	2450
	W (mm)	1600	1885	1885
	H (mm)	2280	2380	2380
<b>Fan</b>				
Supply fan (kW)	4.00	4.00	4.00	5.55
Exhaust Fan (kW)	0.55	0.55	0.55	0.55
<b>Compressor</b>				
Compressor QTY	2	2	2	2
Compressor type	Scroll	Scroll	Scroll	Scroll
<b>Auxiliary cooling/heating coil (optional)</b>				
Cooling capacity (kW)	50	50	60	60
Cold water flow rate (m <sup>3</sup> /h)	8.6	8.6	10.3	10.3
Pressure drop(kPa)	38	38	40	40
Inlet/Outlet size	DN40(Internal screw)	DN40(Internal screw)	DN40(Internal screw)	DN40(Internal screw)
<b>Pool water condenser</b>				
Pool water heat exchanger type	Titanium shell and tube type			
Heating capacity(kW )	54	63	78	99
Standard work pressure resistance(MPa)	1	1	1	1
Water pressure drop (kPa)	34	37	38	42
Max. Water temperature(°C)	40	40	40	40
Water flow (m <sup>3</sup> /h)	10	12	15	20
PVC water inlet/outlet size	De63(Internal screw)	De63(Internal screw)	De63(Internal screw)	De63(Internal screw)
<b>Outdoor condenser</b>				
Condenser QTY	1	1	1	1
Dimension (mm) L×W×H	1232×972×1110	1651×936×1080	1651×936×1080	1651×936×1080
Total Power (kW)	0.6	1.1	1.1	1.1
Weight (kg )	110	143	160	160
Port size	( Φ19/Φ16 ) ×2	Φ19/Φ16/Φ22/Φ19	( Φ22/Φ19 ) ×2	( Φ22/Φ19 ) ×2
Model name	LAS10P	LAS15P	LAS20P	LAS20P

### Remarks :

1. Testing condition: ambient air temperature 29°C, relative humidity 65%, pool water condenser inlet water temperature 26°C, outlet water temperature 28°C, outdoor temperature 32°C.
2. Pool water condenser: If cooling or heating capacity is insufficient, auxiliary cooling/heating coil can be selected according to the actual heat exchange demand. The cooling capacity is calculated as inlet water temperature 7°C, heating capacity is calculated as inlet water temperature 60°C.
3. External residual pressure can be adjusted as required.
4. Outdoor condenser can be set to a water-cooled condenser according to user's requirements.



# 06

**INTELLIGENT  
CONTROL SYSTEM**



SMARTER WATER FOR A  
SMARTER HOME



# POOL SMART HUB INTELLIGENT CONTROL SYSTEM



INTELLIGENT CONTROL SYSTEM

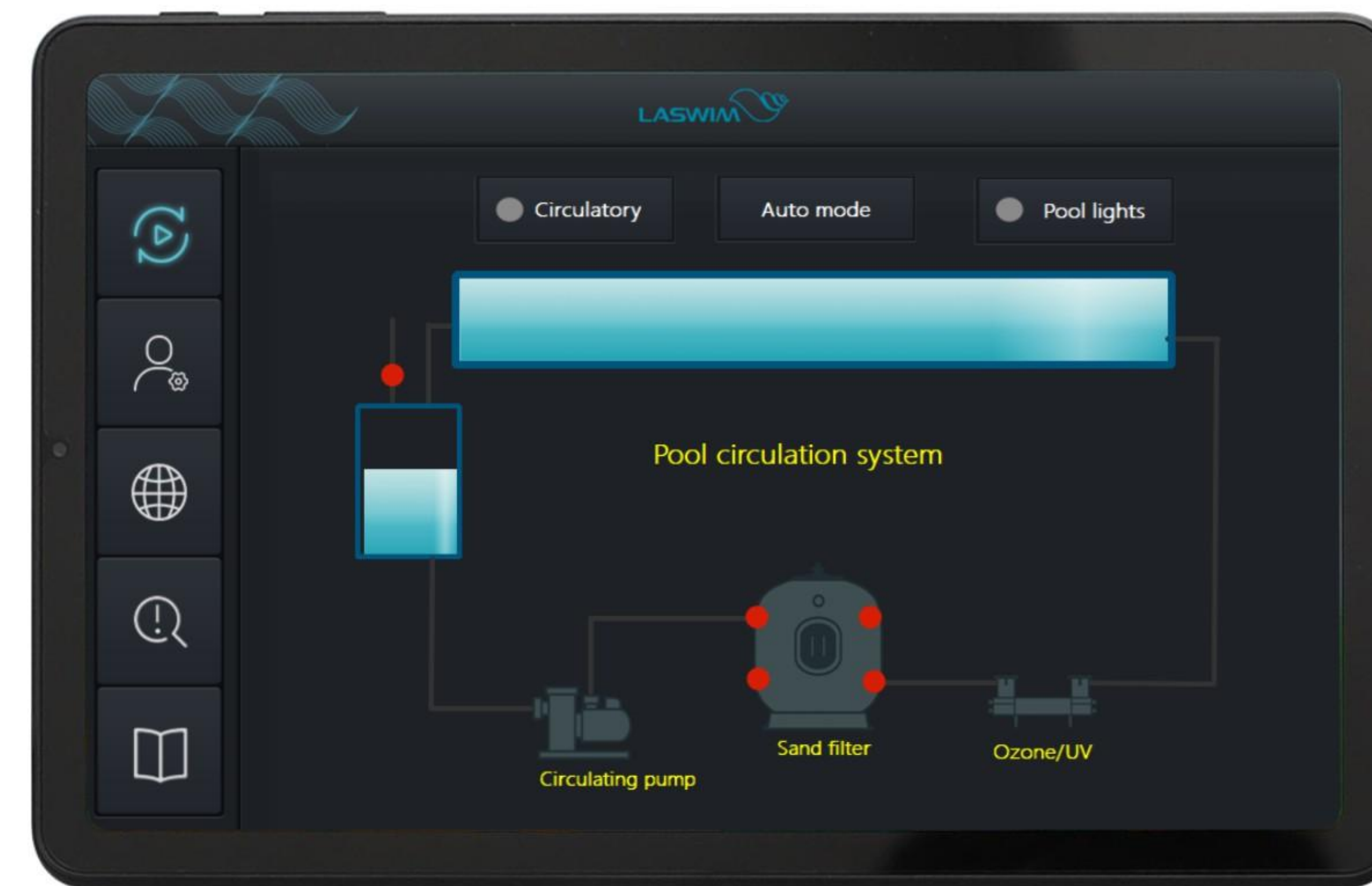
## Achieve sustainable pool operation for owners

LASWIM, the user-centred, intelligent master of swimming pool ecological water wisdom, adopts the internet+ mode, combining intelligent visual management, IOT sensing technology, cloud computing, a variety of intelligent terminal control and other latest technologies, to create a "smart swimming pool" for users. The system can provide a healthy swimming pool.

The Smart' water environment control system can provide a healthy and comfortable water environment, optimise the swimming experience, reduce management and operation costs, and improve operation capability.

 <p>Centralized and Integrated System Management</p>	 <p>Smart Water Expert System</p>
 <p>Unattended Operation, Anomaly Alert</p>	 <p>Energy-efficient Operation, Cost Savings</p>





# POOL SMART HUB INTELLIGENT CONTROL SYSTEM



Note: The control interface can be customized according to project requirements.

INTELLIGENT CONTROL SYSTEM

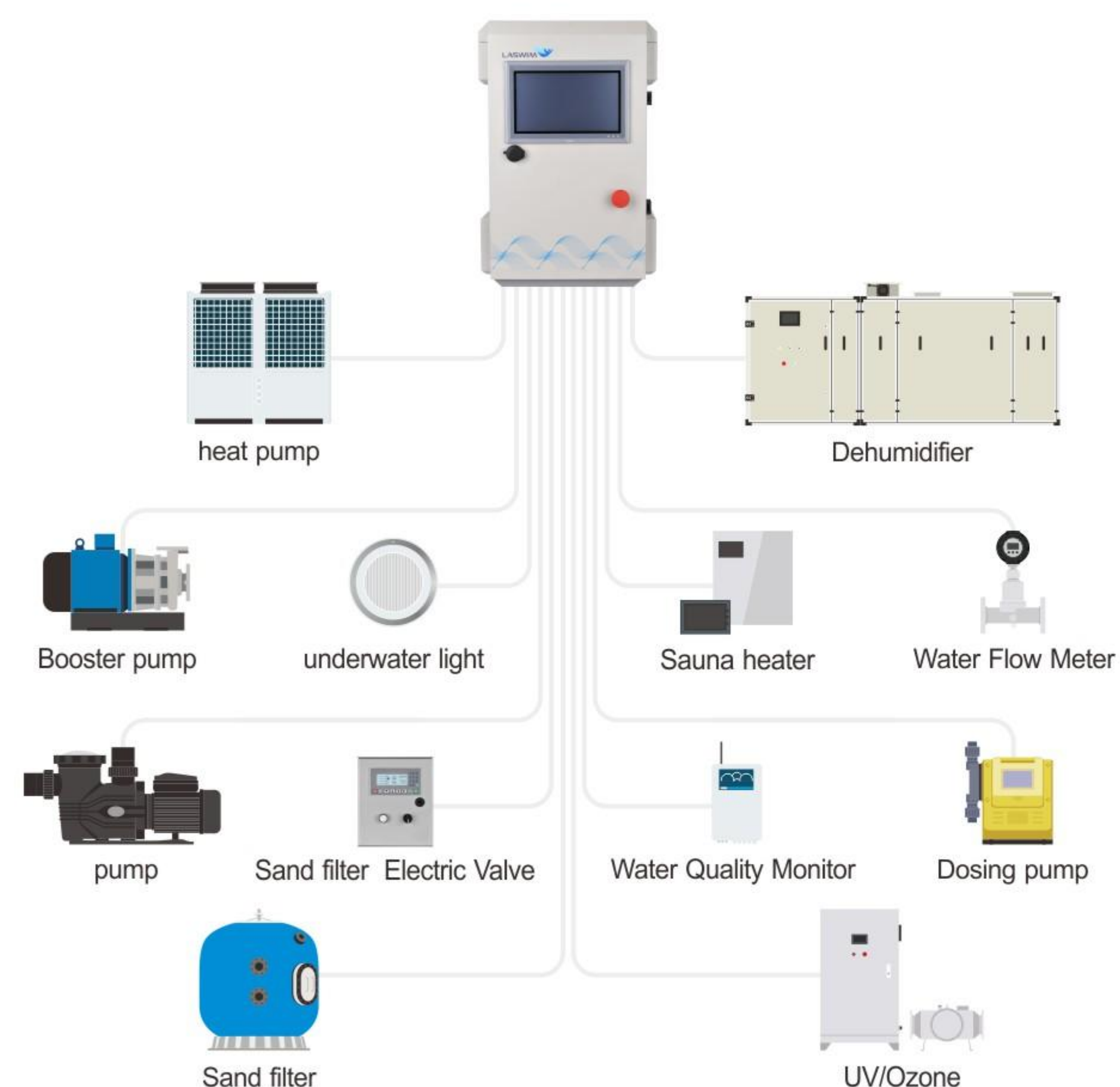
## To provide customers with a better user experience.

	<p><b>Low manual intervention</b> Intelligent timing of the whole system runs automatically, pump failure automatically put into the standby pump, to achieve unattended.</p>
	<p><b>Cloud platform, expert online technical support</b> The system is equipped with the standard data format port of cloud platform, and the DTU module can be added to access the cloud platform. Technicians through off-site real-time monitoring to quickly troubleshoot the system and give solutions.</p>
	<p><b>Remote debugging, remote update</b> Technicians monitor the status of the electronic control system on the Internet and debug the system operating parameters online. According to the feedback of on-site use, remote OTA upgrade system procedures as needed to achieve remote optimisation.</p>
	<p><b>Expansion capability</b> It is equipped with building control BAS system interface as standard. Through the RS485 interface and RJ45 network port and more equipment system communication linkage.</p>

# POOL SMART HUB INTELLIGENT CONTROL SYSTEM

## Control Equipment

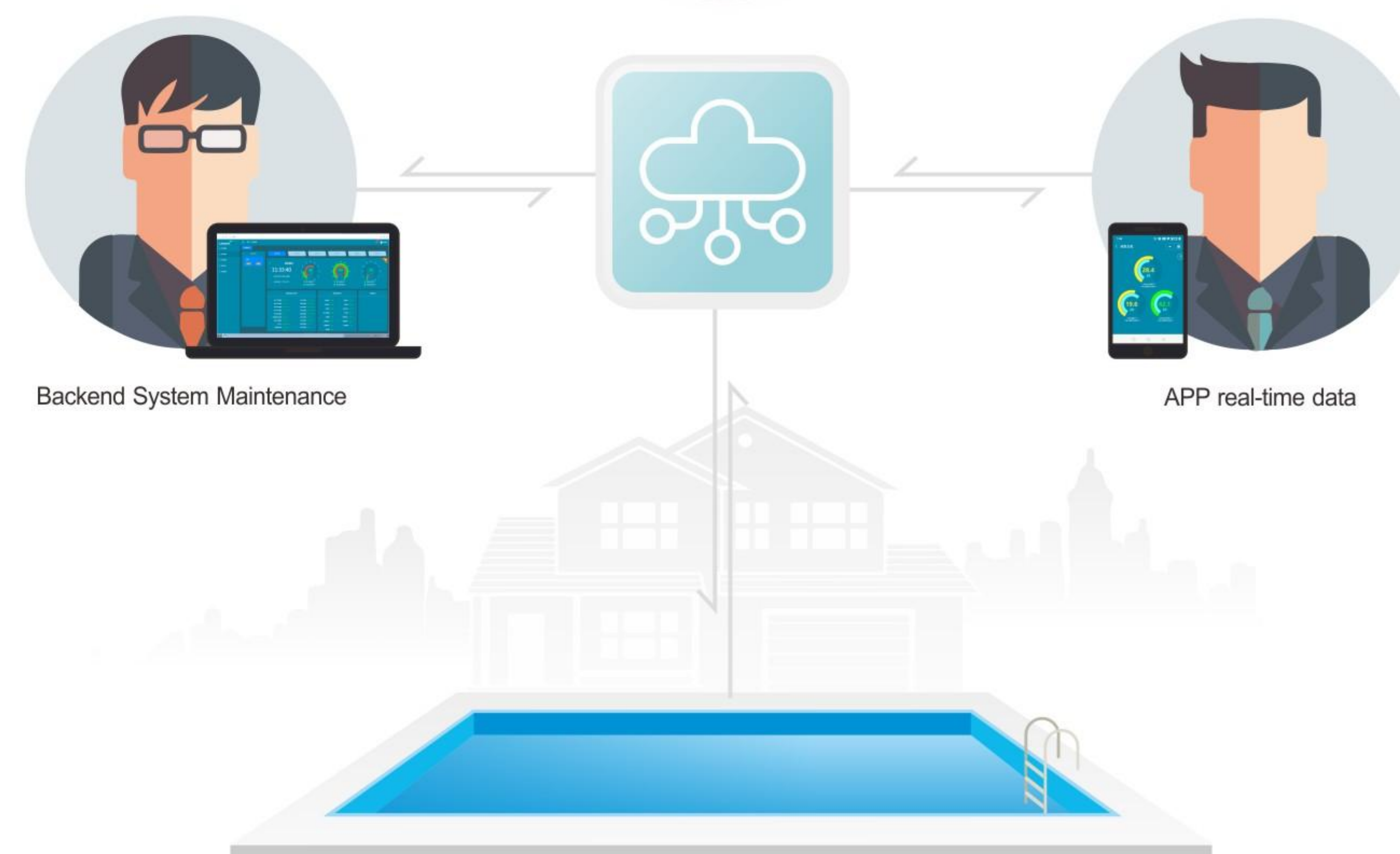
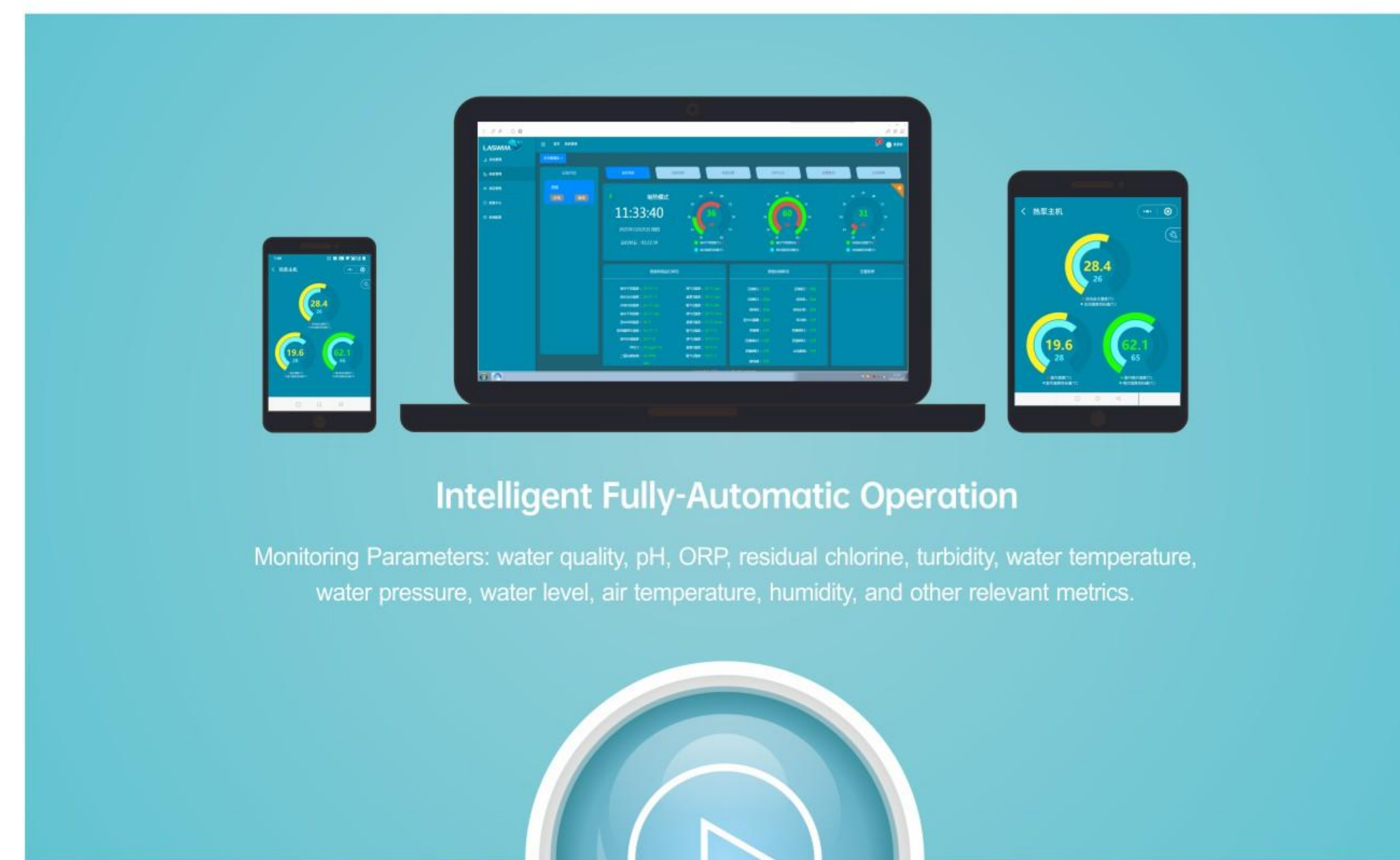
This system can set the main indexes of water and air, and display the monitored parameters such as water quality, pH, ORP, residual chlorine, turbidity, water temperature, water pressure, water level, air temperature, humidity, etc. in the touch screen of the control cabinet, mobile phones and other mobile devices, and remote computers and PCs and other terminals with a visual interface, which can easily and intuitively perform the automatic control operation of the circulating filtration water pumps, water booster pumps, Automatic backwash device, disinfection equipment, constant temperature equipment and dehumidification heat pump can be easily and intuitively operated by automated control.



## Functional description of control points

- Filtration circulating pump control: time-sharing pump increase and decrease, pump input quantity mode conversion, timed operation, automatic joint control, water shortage protection, fault standby switching.
- Sand filter automatic backwash control: timing control, differential pressure control, a key to switch state (backwash, filtration, drainage).
- Constant temperature control: closed-loop temperature control, heat pump communication control, heat source components and system integration linkage.
- Disinfection control: real-time control of pH, ORP, residual chlorine and other dosing devices by water quality monitor, real-time reading of water quality values by the system.
- Water tank control: automatic replenishment, water level alarm, overtime replenishment protection.
- Lighting control: timed control.
- Suction control: automatic suction and drainage, double-pump strong drainage function.
- System software: high integration linkage of pool components, intuitive flow interface diagram, temperature and water level equipment alarm, with BAS interface, remote maintenance function.
- Electric control protection: independent leakage protection, over-current protection, phase loss protection, emergency stop function.

# POOL SMART HUB INTELLIGENT CONTROL SYSTEM



# POOL SMART HUB INTELLIGENT CONTROL SYSTEM



The Pool Smart Hub is a combination of control cabinets that provide power for the normal operation of electrical equipment. It controls, protects, converts and distributes electricity to electrical equipment. Internal devices include switches, circuit breakers, contactors, inverters, transformers and so on.

With the basic, automatic, intelligent three control methods of wisdom + water environment control cabinet, it can meet the diverse needs of customers.

Function & Feature Classification	Basic Electrical Cabinet	Automatic Electrical Cabinet	Smart Electrical Cabinet
Automatic Pump Mode Switching Based on Peak/Off-Peak Hours			●
Automatic Sand Filter Backwash & Multi-Mode Switching System			●
One-Touch Start/Stop Automatic System			●
Automatic Pump Failure Backup Switching System			●
Heat Pump Communication Linkage System			●
Touchscreen HMI (Human-Machine Interface) System			●
Building Automation (BA) System Integration Solution			●
Smart System Online Maintenance Solution			●
Custom Function Online Update			●
Optional Mobile Control APP			●
Cloud Platform Integration			●
Selection of computer monitoring system for the control room			●
Pump Timer Control		●	●
Automatic Water Tank Refilling System		●	●
Temperature Control Heating System		●	●
Water shortage Cutoff Protection for Pumps		●	●
Disinfection Equipment Interlock Start System	●	●	●
Panel-Operated Pump Control System	●	●	●

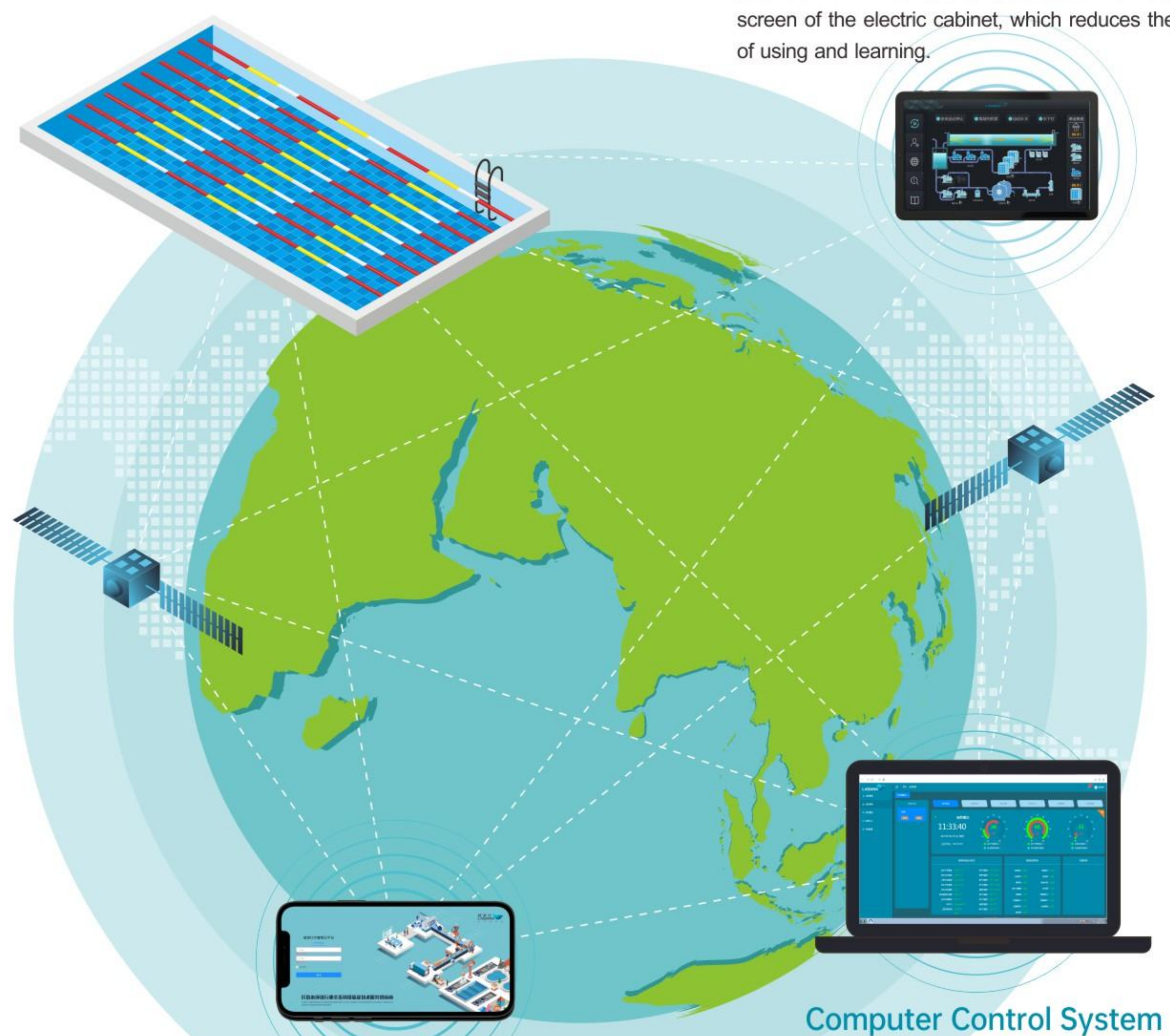
Functional Items	Basic Electrical Cabinet	Automatic Electrical Cabinet	Smart Electrical Cabinet
Circulation pump	Manual Start/Stop	Timer Switch+Manual Control	Timer Switch+Staggered Pump Control+Auto Rotation+ Fault Backup+ Manual Control
UV+Ozone	Auto-Start with pump	Auto-Start with pump	Auto-Start with pump
Salt chlorinator	Auto-start with pump	Auto-start with pump	Auto-start with pump
Water quality monitor	Auto-start with pump	Auto-start with pump	Auto-start with pump+Water Quality Parameter Feedback
Flocculant Dosing Pump System	Manual control	Manual control	Timer Switch + Manual Control
Water Replenishment Control System	/	Instrumentation control	PLC control, Automatic water replenishment timeout cutoff
Pool light power supply	Manual control	Timer Switch+Manual Control	Timer Switch + Manual Control
Sand filter backwash	/	/	Optional configurations: Timer/Differential pressure/ One-Key Switching
Heat pump	/	Heat pump Controlled Booster Pump	Heat pump control booster pump+Remote temperature Setting+Status Monitoring
Thermostatic Plate Heat Exchanger Motorized Valve System	/	Instrumentation Control	PLC control, Over temperature alarm
BA System Interface	/	/	Optional RS485 or Ethernet Port Configuration
Remote monitoring	/	/	Optional monitoring room PC/network monitoring software

Pool Smart Hub Function Configuration List				
Model	LSC400	LSC500	LSC600	
Configuration Content				
Dimensions	L(mm)	400	500	600
	W(mm)	600	700	900
	H(mm)	200	200	250
Installation		Wall-mounted		
Max.pump QTY		3	5	7
Touchscreen Model		10" smart touch screen		
Switching Power Supply		Weak current power supply module		
Standard cloud platform communication module		cloud platform communication module		
Cloud platform standard expansion module				
Configuration Content	Standard components	cloud platform communication module		
	Platform Function	You can log into the cloud platform through the web page and applet to monitor and manage the equipment. The specific functions are as follows: 1.Display the current working condition of the equipment, the probe reading value, and the electronic control input and output status. 2.Control the unit's power on and off, set basic parameters, set operating mode and set timed power on and off. 3.Historical data of each unit parameter, line chart display and related data record table export. 4.Query and export unit alarm records. 5.Display bound EZVIZ cloud video. Monitor the computer room or swimming pool area.		
Filtration and circulation system				
Configuration Content	Water pump equipment configuration			
	Interface	220VAC/380VAC		
	Max. QTY.	3	5	7
	Interface output voltage	220VAC/380VAC		
	Optional components	Contactor + circuit breaker (circuit breaker is equipped according to the actual power of the pump)		
Operation Mode	Pump Control Modes: Rotation/Always-On/Fault Switchover/Follow Master Pump			
Disinfection system				
Configuration Content	Standard specification	UV or Ozone		
	Interface	220VAC/380VAC		
	Optional components	Contactor + circuit breaker		
	Optional components	Disinfection Equipment Booster Pump Optional Configurations		
	Interface	220VAC/380VAC		
Bypass Power Supply System(Power-Only, No Switching control)				
Configuration Content	Interface	220VAC		
	Optional components	3-pole Single-phase circuit breaker+1 Auxiliary Relay (for Flocculant Dosing)		
	Equipment Support	Salt chlorinator, Water quality Monitor and Flocculant Dosing Pump 220V		
	Operation Mode	Operation Modes: Follow Circulation pump/Timer/ Water quality Signal Trigger		
Pool lighting system				
Configuration Content	Interface	220VAC/12VAC/12VDC/24VDC		
	Optional components	Circuit Breaker + Contactor+Transformer / Underwater Light Controller / Switching Power Supply		
Optional Level Control Configurations				
Configuration Content	Optional components	Liquid Level/Pressure Sensor		
	Valve	Solenoid Valve/ Motorized Valve/ Pneumatic Valve		
	Optional Custom Valve Voltage	24VDC/220VAC		
	Operation Mode	Level Display with automatic water replenishment valve control		
Temperature Control (optional)				
Configuration Content	Configuration Content	Single-channel temperature probe/Dual-channel temperature probe(Pool+Heat Exchanger)		
	Temperature Probe(optional)	2-Wire 0-10V Temperature Sensor / 4-20mA Temperature Sensor		
	Non-standard valve voltage(Optional)	24V/12VDC/220VAC		
	Valve	Solenoid Valve/ Motorized Valve/ Pneumatic Valve		
Operation Mode	Temperature display, exchanger temperature adjustment			
Sand filter backwash (Optional)				
Configuration Content	Interface	Modbus RS485 Connection for Sand Filter Controller		
	Custom Optional Accessories	RS485 Splitter		
	Operation Mode	Automatic Backwash Control via Sand Filter Controller Linkage		

# CLOUD+ REMOTE CONTROL SYSTEM

## INTELLIGENT CONTROL SYSTEM

INTELLIGENT CONTROL SYSTEM



### Mobile APP Control System

Users can monitor the status of the swimming pool system in real time by using the mobile phone APP, and the APP interface is consistent with the HM screen of the electric cabinet, which reduces the cost of using and learning.

### Remote Cloud Platform Control

The remote cloud platform uses WEB page as the carrier, users only need to use the browser to access the page of their own swimming pool equipment, and monitor the status of their own equipment at any time and anywhere.

### Computer Control System

The computer control system of the upper computer of swimming pool is suitable for the integrated control of multiple pools in the control room. The computer system integrates the individual systems of each swimming pool, Jacuzzi and playground in the project, and monitors and controls them remotely.



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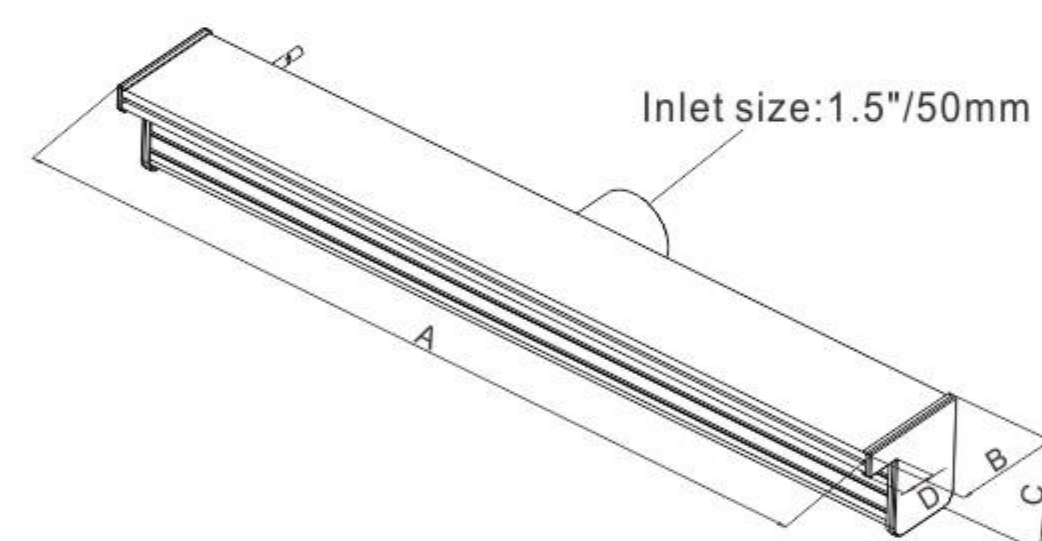
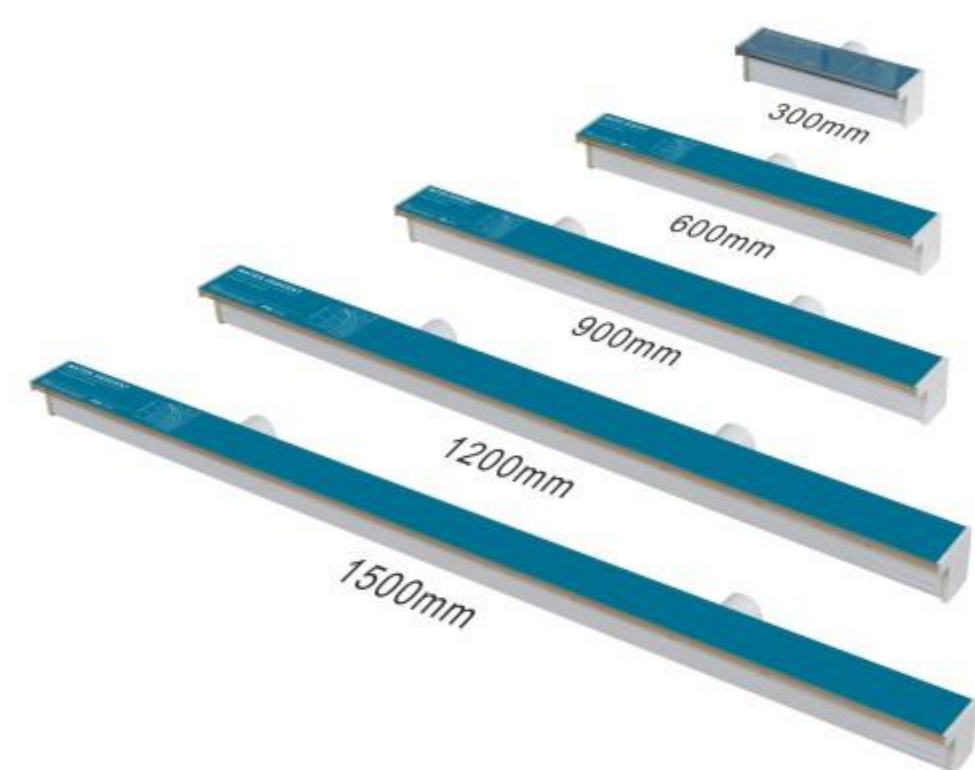
**WATER  
DESCENT**



# WATER DESCENT WL-WDA

The water descent are suitable for installation on finished walls and new construction walls.

Product design unique, novel, beautiful; with the optional RGB LED strip, the unit provides you colourful waterfall, which will bring elegance and visual interest to your life; Efficient to hide outlet, to a beautiful linear effect the water.



### Features:

- The water descent can be widely used in swimming pool, parks or gardens.
- Different lengths available: 300mm, 600mm, 900mm, 1200mm, 1500mm.
- Free choice: with or without led strip.
- Safety power DC12V output is more reliable and security.
- Multiple color is available to switch by remote controller.
- The LED lights can be operated through remote control, 18 light modes are available.
- Lip: 25mm.



### Technical Data

Model	A (mm)	B (mm)	C (mm)	D (mm)	LED	Type Of Wall Installation
WDA300-25	300	138	79	25	----	Existing wall
WDA600-25	600	138	79	25	----	Existing wall
WDA900-25	900	138	79	25	----	Existing wall
WDA1200-25	1200	138	79	25	----	Existing wall
WDA1500-25	1500	138	79	25	----	Existing wall
WDA300-25L	300	138	79	25	DC 12V/4W	Existing wall
WDA600-25L	600	138	79	25	DC 12V/8W	Existing wall
WDA900-25L	900	138	79	25	DC 12V/12W	Existing wall
WDA1200-25L	1200	138	79	25	DC 12V/17W	Existing wall
WDA1500-25L	1500	138	79	25	DC 12V/22W	Existing wall



Control system with transformer

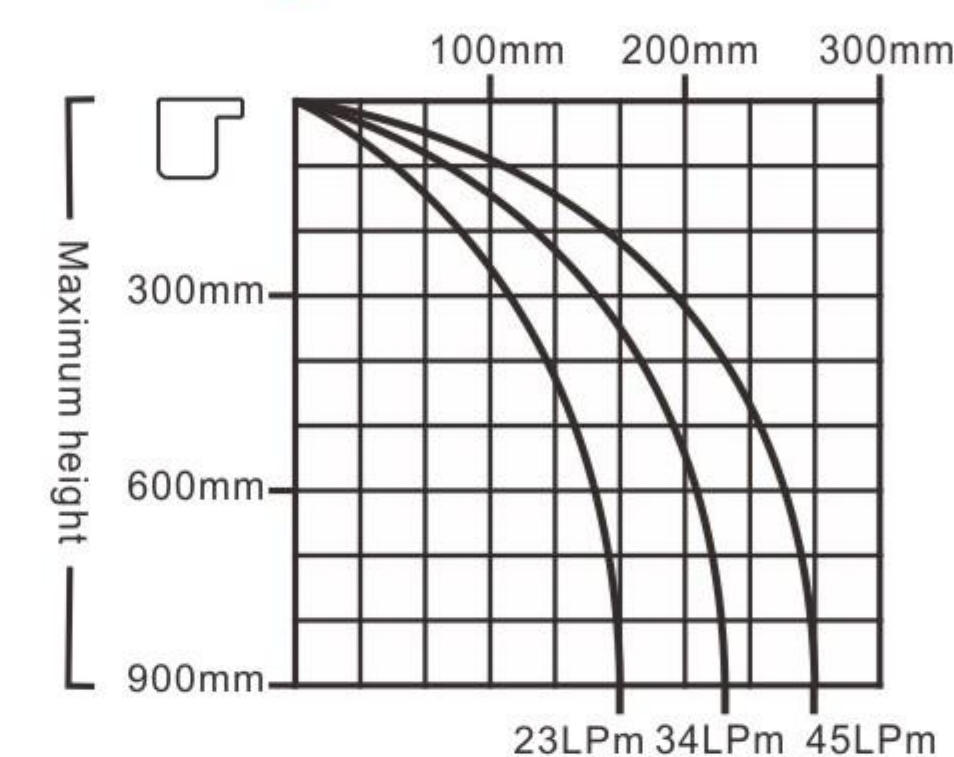


Transformer

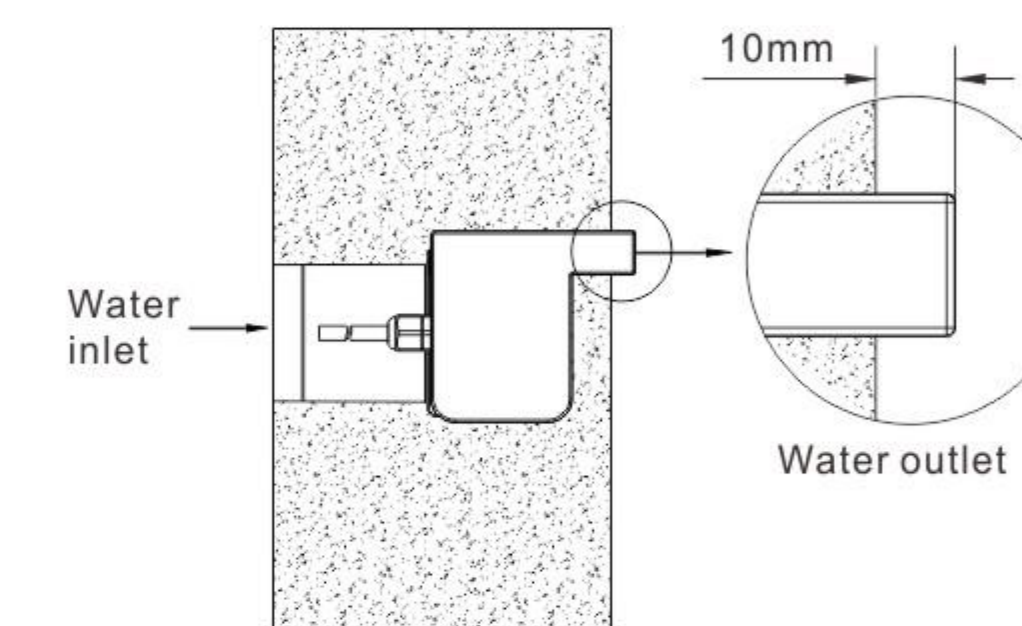


Control board+controller

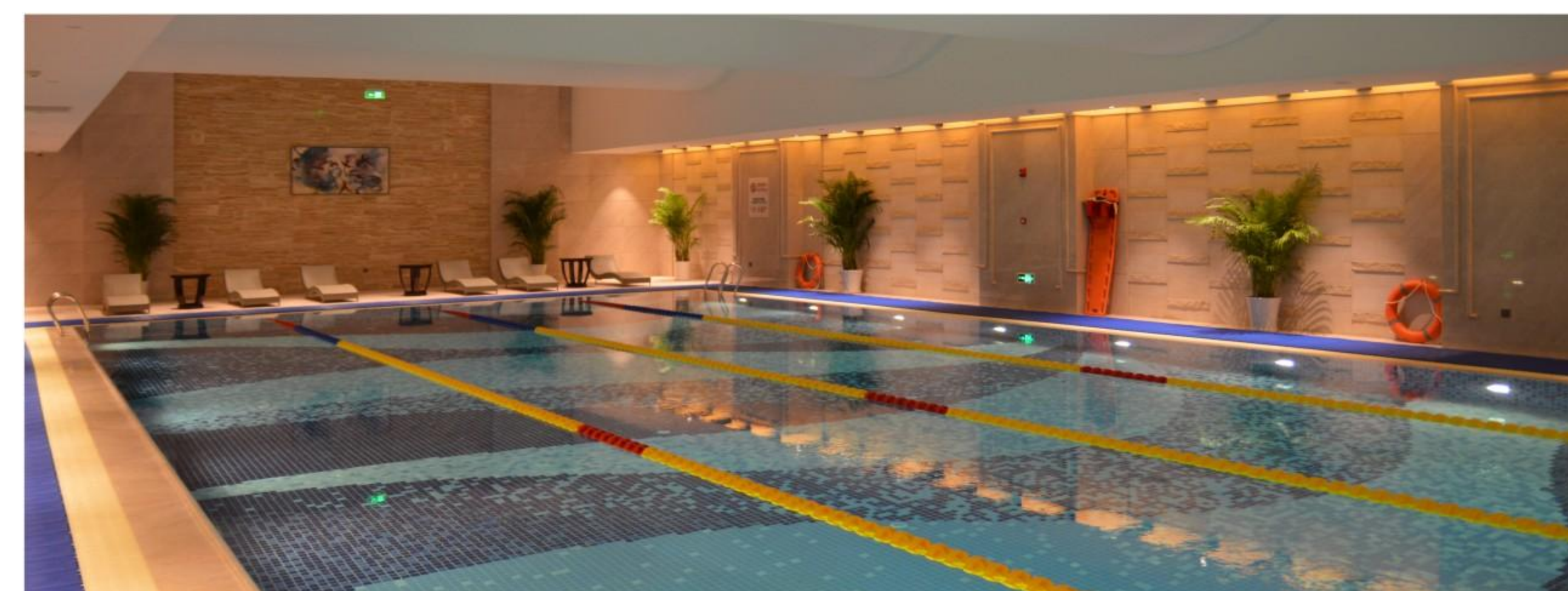
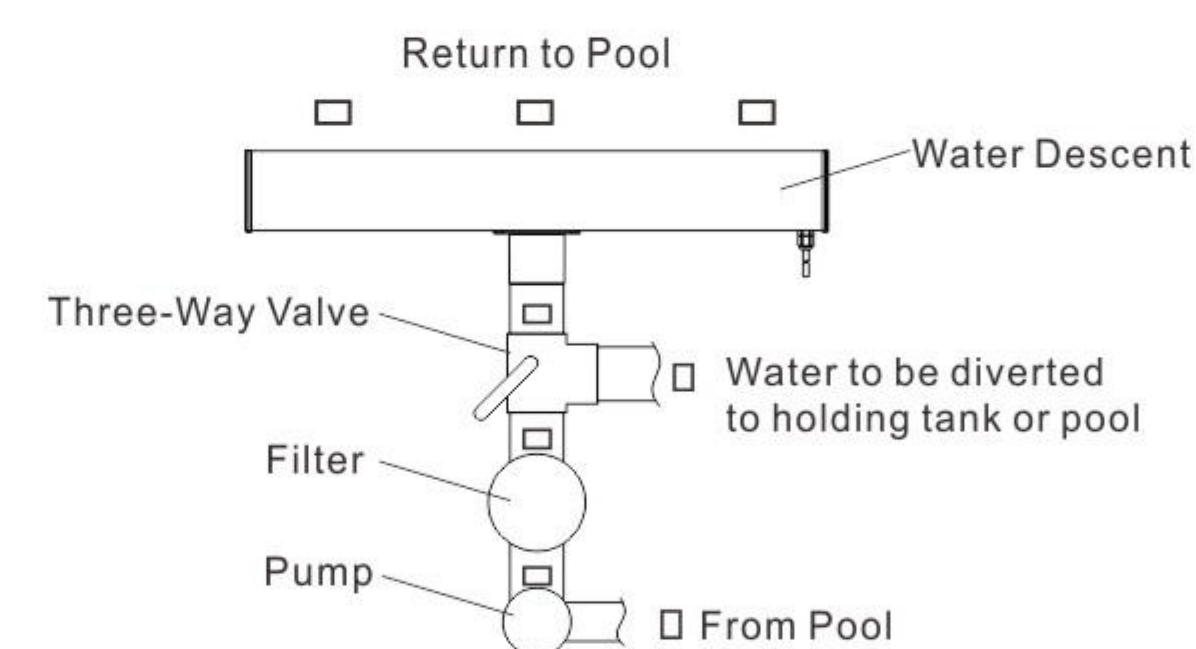
Approximate projection of sheet of water per 300mm of waterfall length



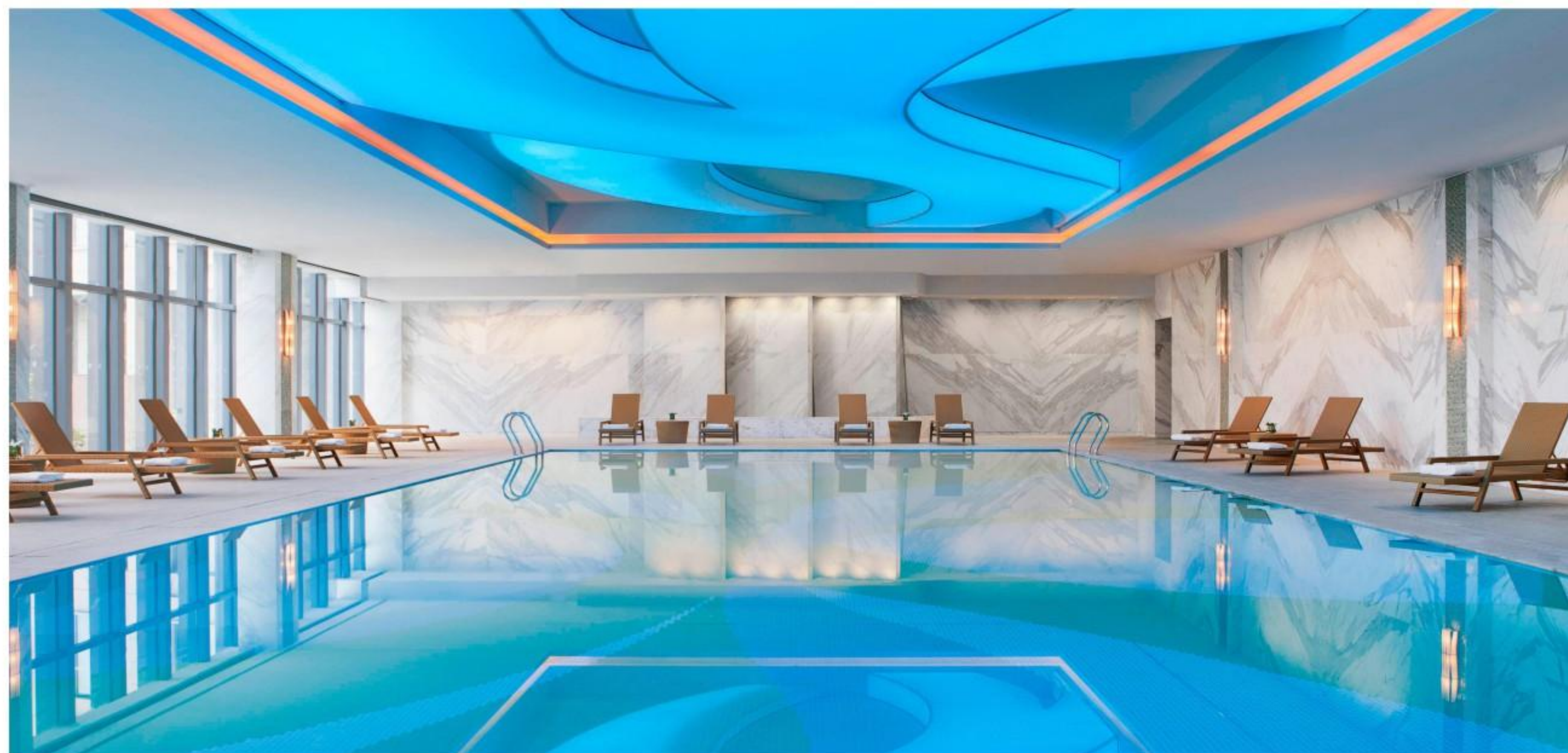
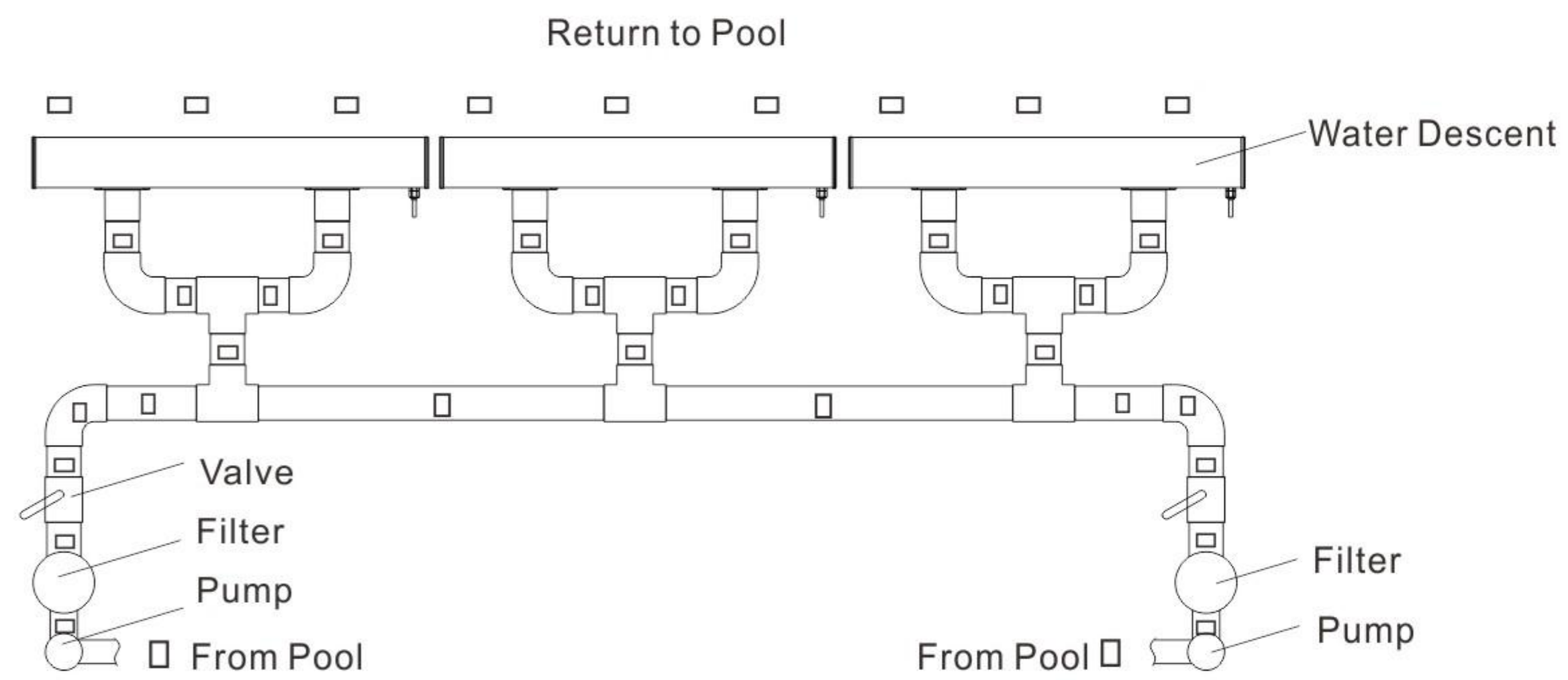
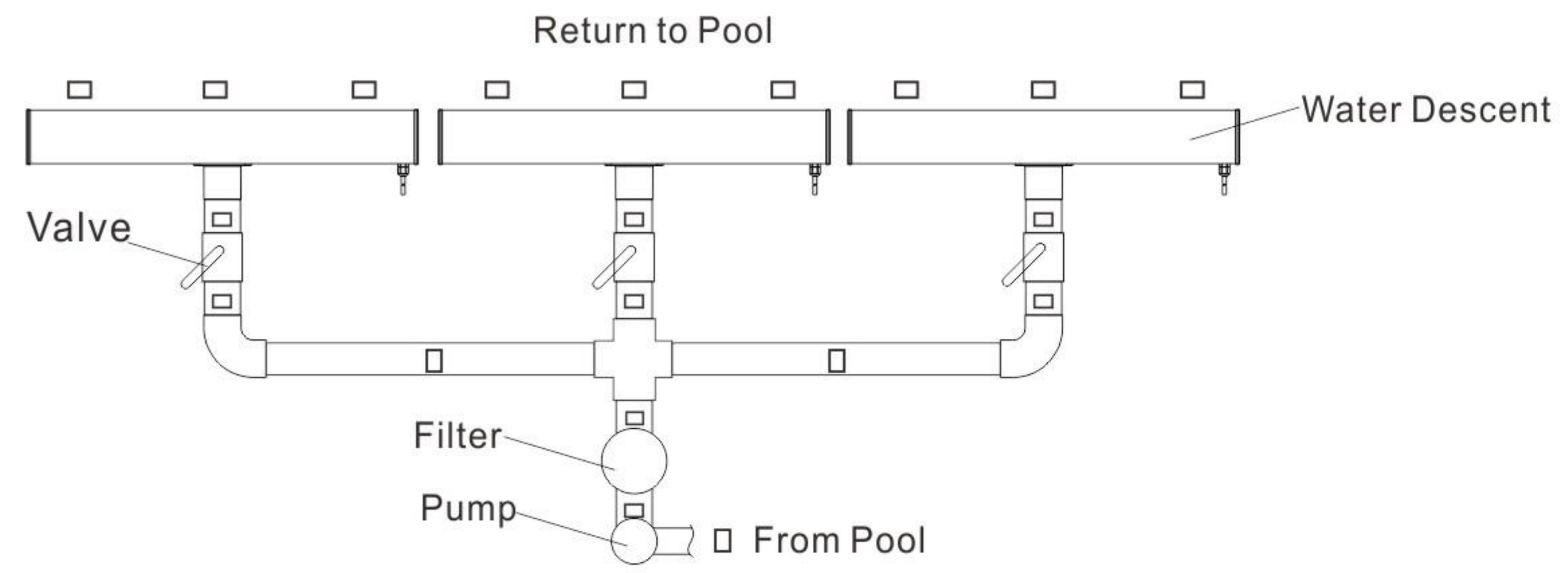
Waterfall installation icon applies to existing wall styles



Installation for piping single unit with ball valve



Multiple units ball valve. (It is best to valve each unit)



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## COMPETITION POOL EQUIPMENT

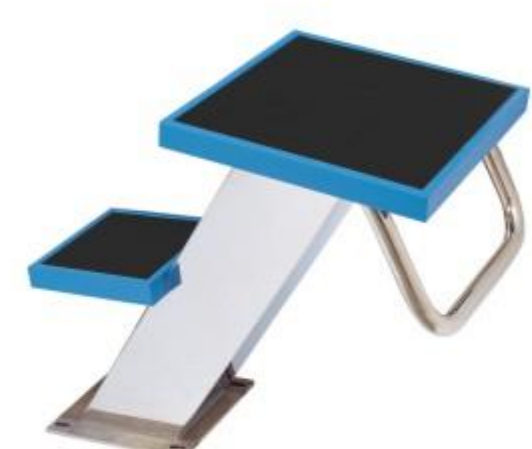
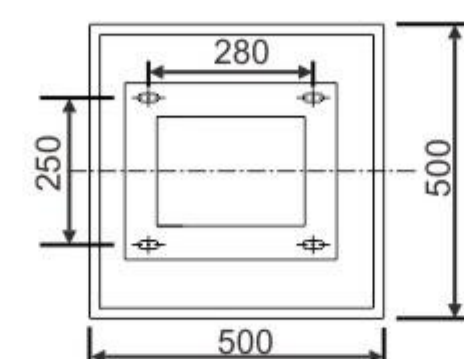
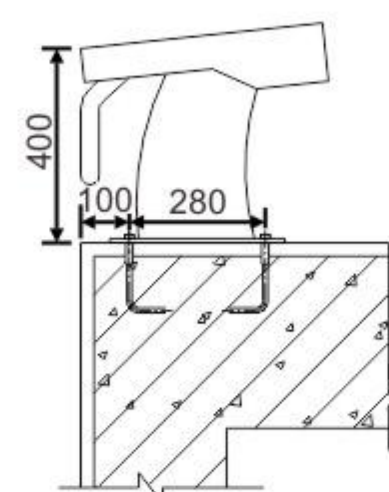


# STARTING PLATFORMS COMPETITION POOL EQUIPMENT

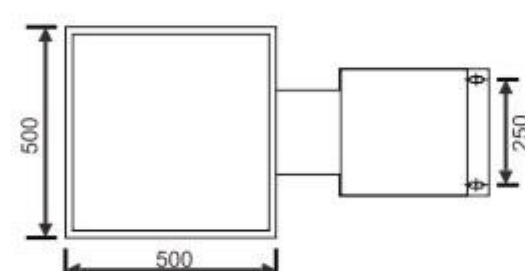
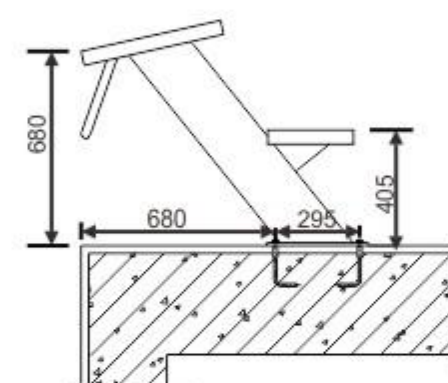
Universally acclaimed by coaches and competitive swimmers, this platform is graceful and functionally simplistic. The surface area is covered with non-slip material.



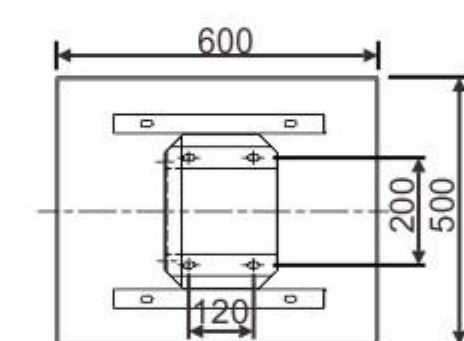
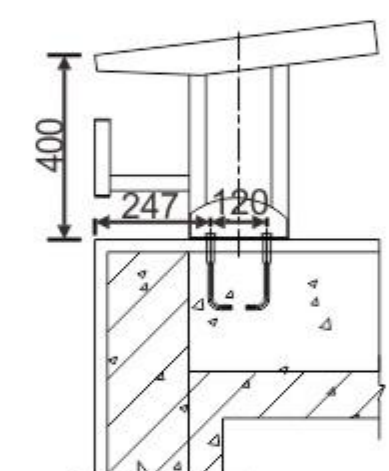
WL-ACF01 Standard Starting Platform



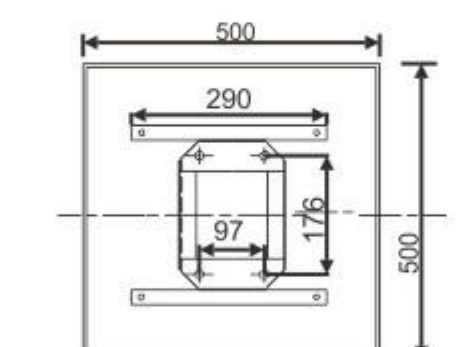
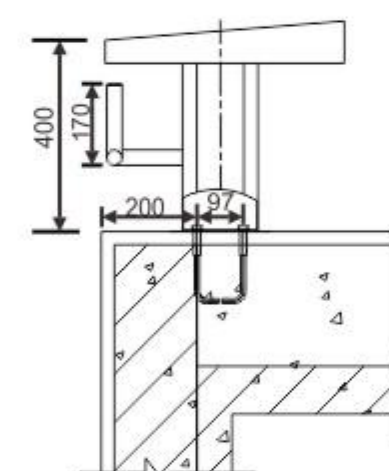
WL-ACF02 SS Two Steps Starting Platform



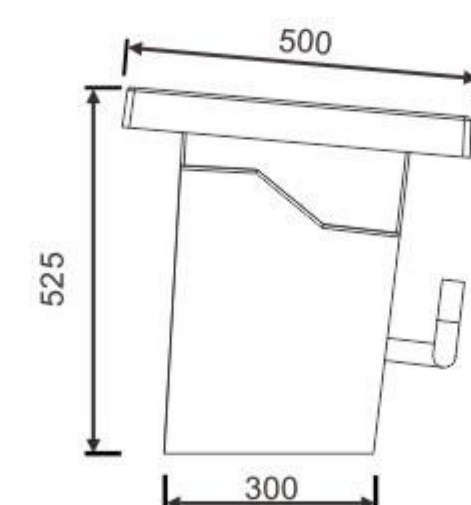
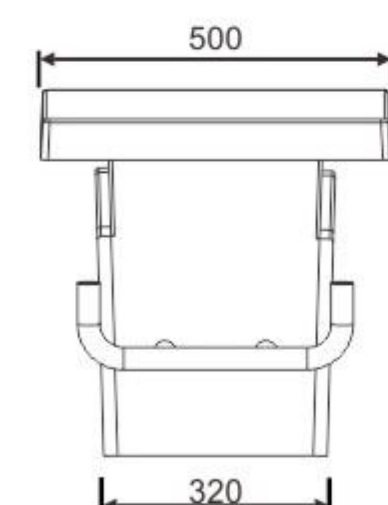
WL-BCF01 Standard Starting Platform



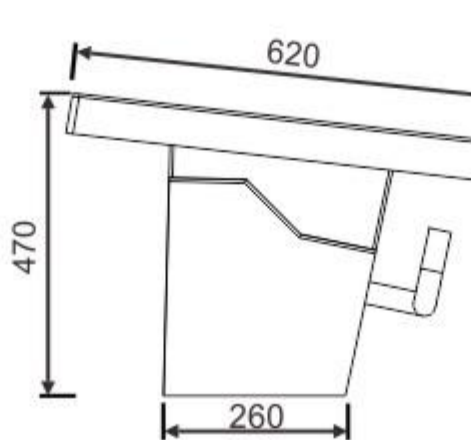
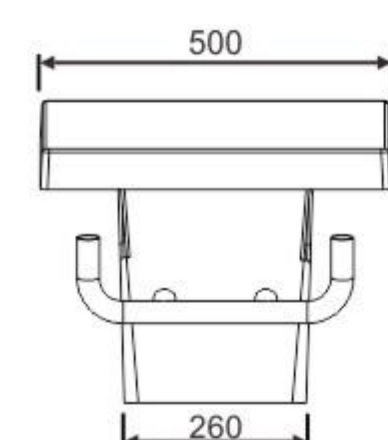
WL-BCF02 Standard Starting Platform



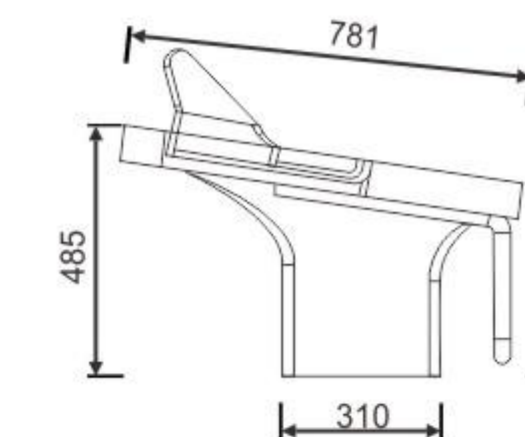
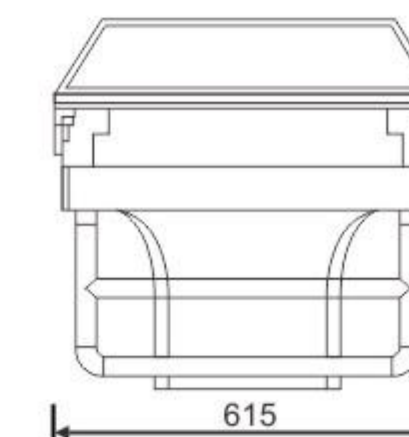
WL-ACF05 Standard Starting Platform



WL-ACF06 Standard Starting Platform



WL-ACF07 Standard Starting Platform

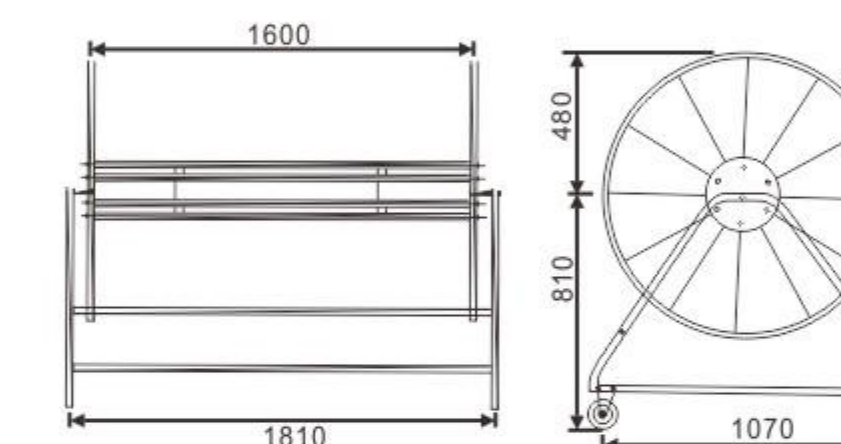


# STORAGE REEL COMPETITION POOL EQUIPMENT

Made of stainless steel, provided with a large diameter wheel for line collection, mounted on 2 wheels for moving around. It is very strong and durable. Holds one 50m or two 25m lanes. Maintenance free. It is ideal lane reel for commercial and institutional pools.



WL-AJX01



# RACING LANE LINE

Racing Lane's flow-through design controls water turbulence by allowing wave energy to be dispersed along the length of the lane, creating the optimum environment for the fastest swim times.

Each lane consists of a series of  $\phi$  120 or  $\phi$  150mm polyethylene disks and donuts strung on a stainless steel cable. Each of these disks is de-signed to rotate independently of the others, thereby allowing the wave energy to be absorbed and dispersed along the channel within the lane. Competitor lanes come completely assembled.

Standard Colors - Red, White, Blue, Yellow, Green.



WL-BYD101, BYD102



WL-BYD301, BYD302

Model	Specification
WL-BYD101	$\phi$ 150x25m
WL-BYD102	$\phi$ 150x50m
WL-BYD301	$\phi$ 120x25m
WL-BYD302	$\phi$ 120x50m

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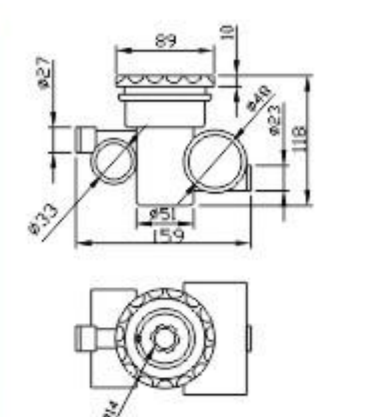
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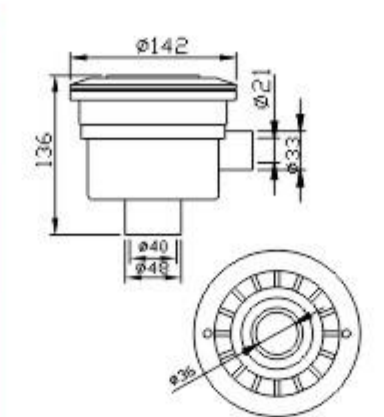
## POOL FITTINGS & CLEANERS

# POOL FITTINGS POOL FITTINGS & CLEANERS


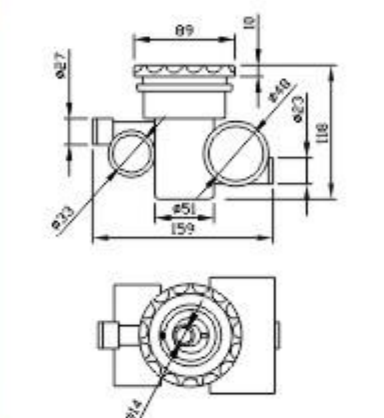
# POOL FITTINGS POOL FITTINGS & CLEANERS


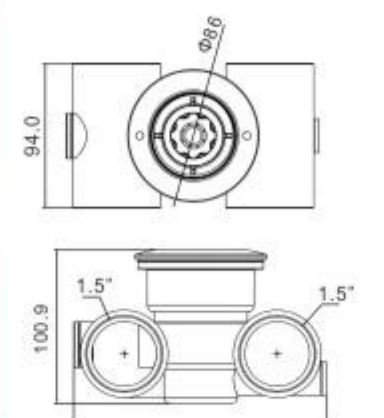
Products	Jet
Model	WL-APH02
Colour	White
Material	ABS


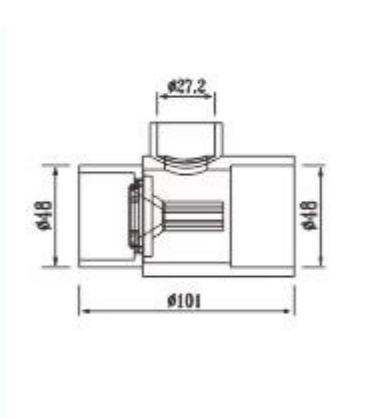
Products	Jet
Model	WL-APH03
Colour	White
Material	ABS


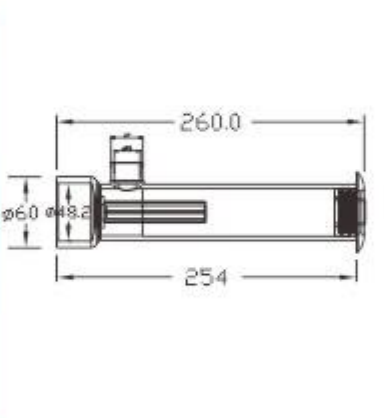
Products	Jet
Model	WL-AXP01
Colour	White
Material	ABS


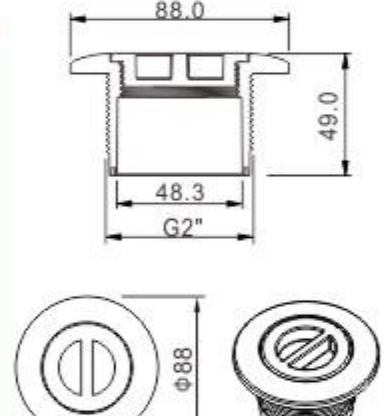
Products	Jet
Model	WL-BPH02
Colour	White
Material	ABS


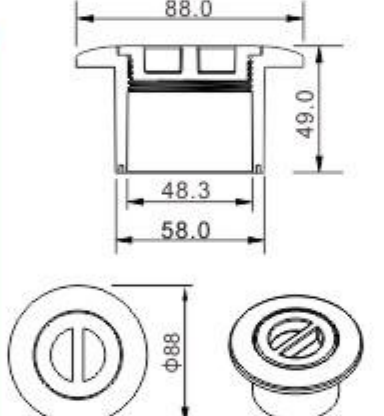
Products	Jet
Model	WL-ASL01
Colour	White
Material	ABS


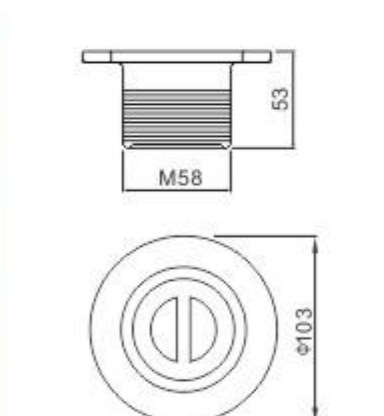
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Colour	White
Material	ABS


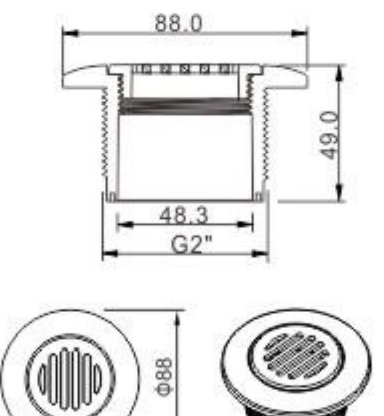
Products	Suction Head
Model	WL-ACW01V
Colour	White
Material	ABS

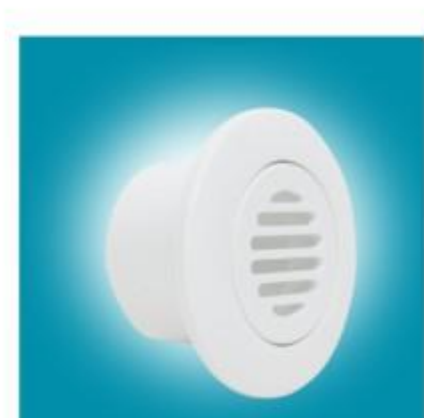
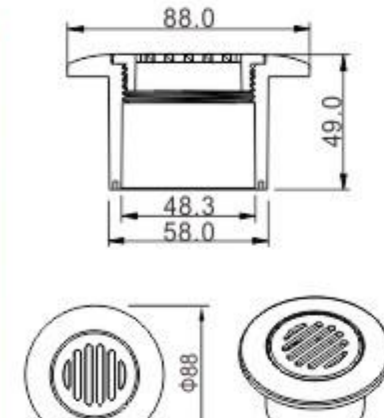
Products	Suction Head
Model	WL-ACW01C
Colour	White
Material	ABS


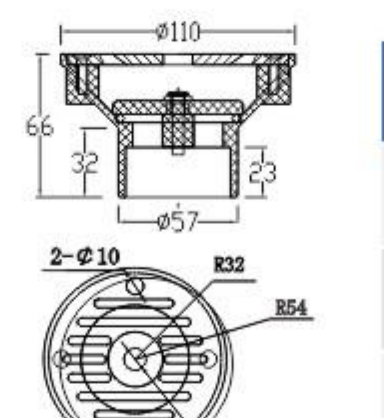
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Model	WL-ACW02
Colour	White
Material	ABS


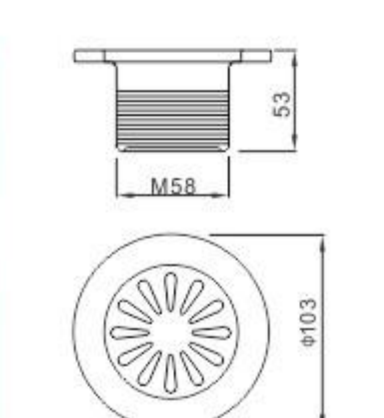
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Model	WL-ACW03V
Colour	White
Material	ABS


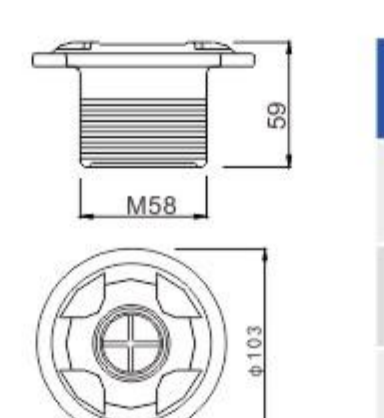
Products	Suction Head
Model	WL-ACW03C
Colour	White
Material	ABS


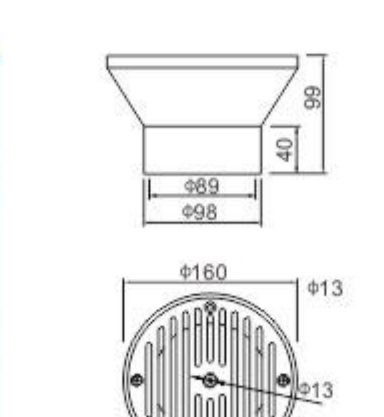
Products	Adjustable Inlet (1.5")
Model	WL-AJH01
Colour	White
Material	ABS


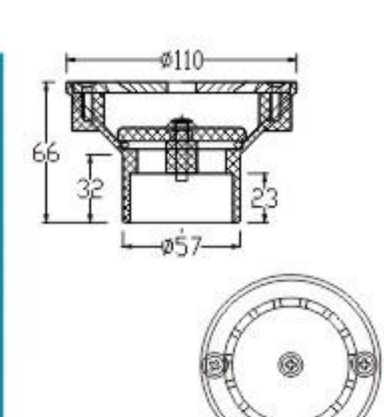
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Model	WL-AJH02
Colour	White
Material	ABS


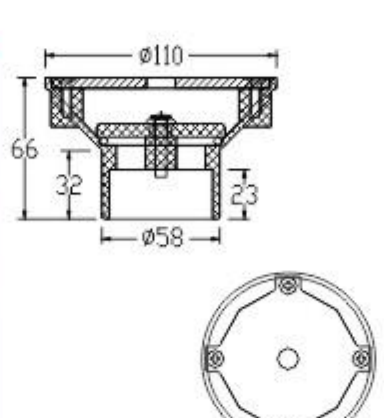
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Model	WL-AJH03
Colour	White
Material	ABS


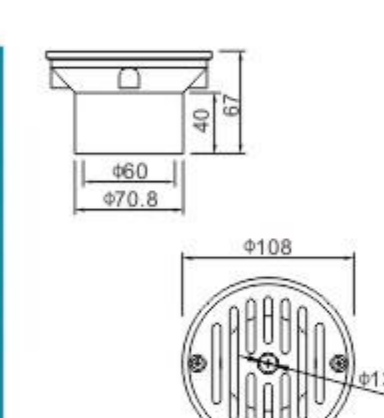
Products	Adjustable Inlet (3")
Model	WL-AJH31
Colour	White
Material	ABS


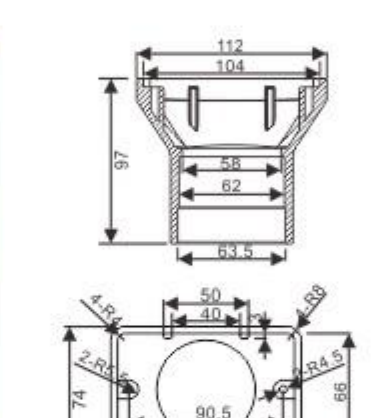
Products	Adjustable Inlet
Model	WL-AJH04
Colour	White
Material	ABS


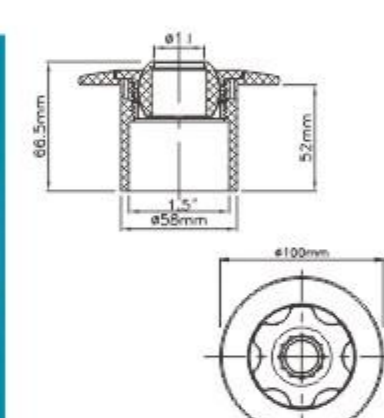
Products	Adjustable Inlet
Model	WL-AJH05
Colour	White
Material	ABS


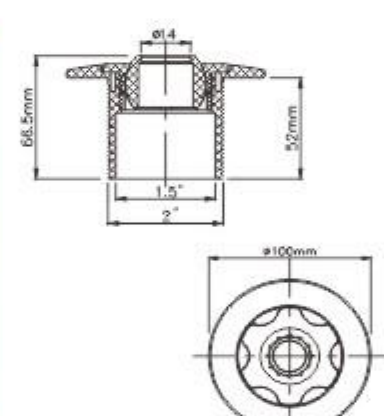
Products	Adjustable Inlet (2")
Model	WL-AJH21
Colour	White
Material	ABS


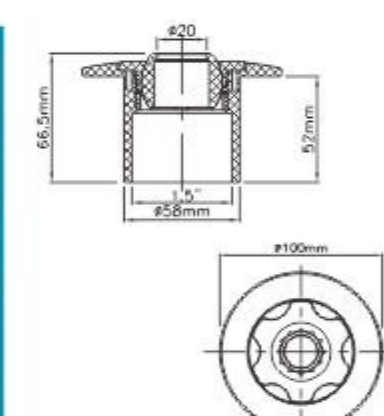
Products	Gutter Drain
Model	WL-AYK01
Colour	White
Material	ABS


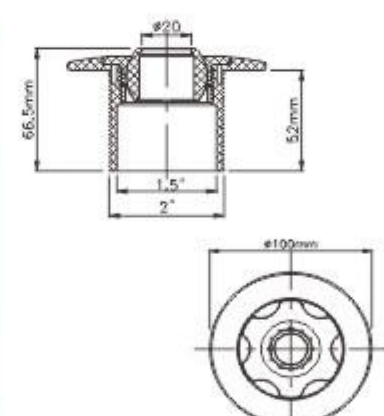
Products	Eyeball Inlet For Concrete Pool
Model	WL-EJH14C
Colour	White
Material	ABS


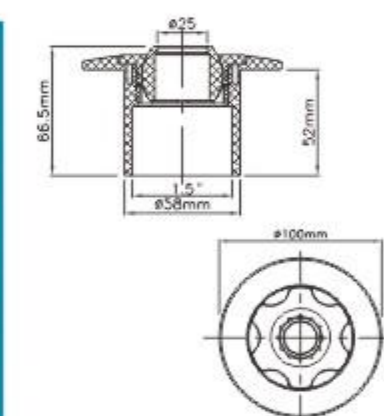
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Model	WL-EJH14V
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Material	ABS


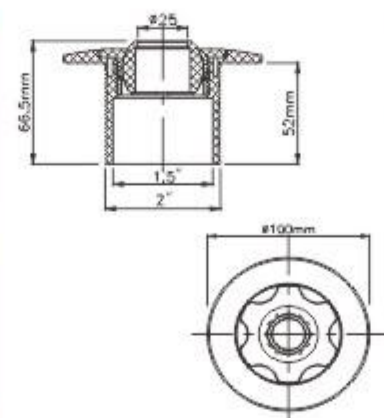
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Material	ABS


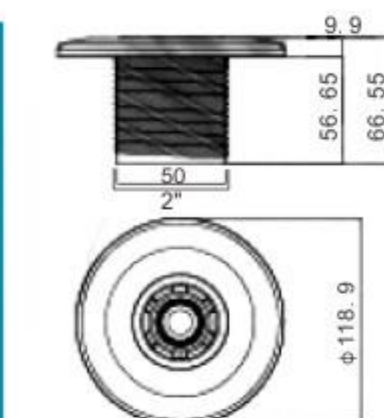
Products	Eyeball Inlet
Model	WL-EJH20V
Colour	White
Material	ABS


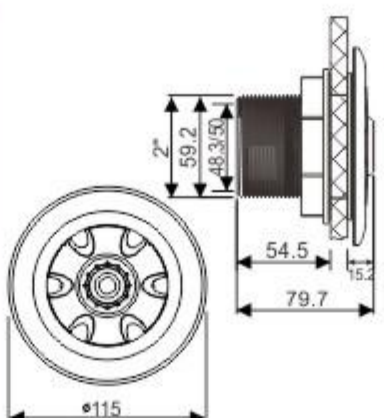
Products	Eyeball Inlet For Concrete Pool
Model	WL-EJH25C
Colour	White
Material	ABS


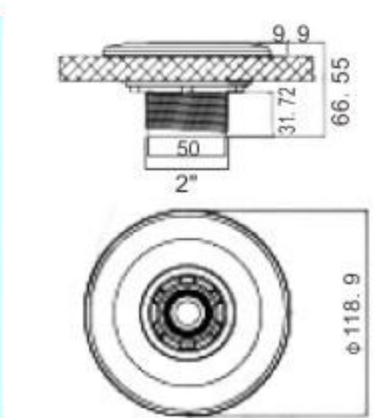
Products	Eyeball Inlet
Model	WL-EJH25V
Colour	White
Material	ABS

Products	Multiflow Wall Inlets
Model	PA00295C
Colour	White
Material	ABS

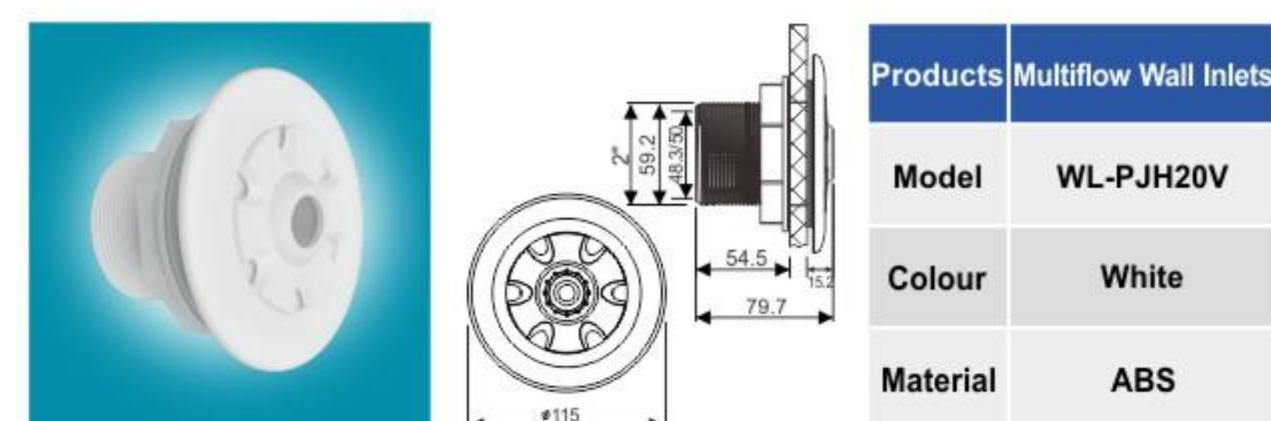
Products	Multiflow Wall Inlets
Model	WL-PJH14V
Colour	White
Material	ABS

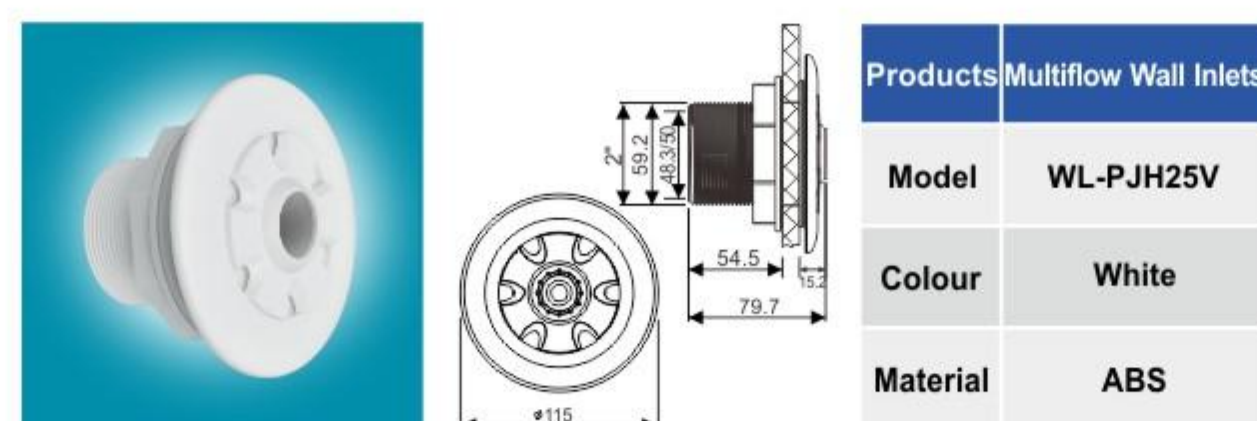
Products	Multiflow Wall Inlets
Model	PA00295V
Colour	White
Material	ABS

# POOL FITTINGS

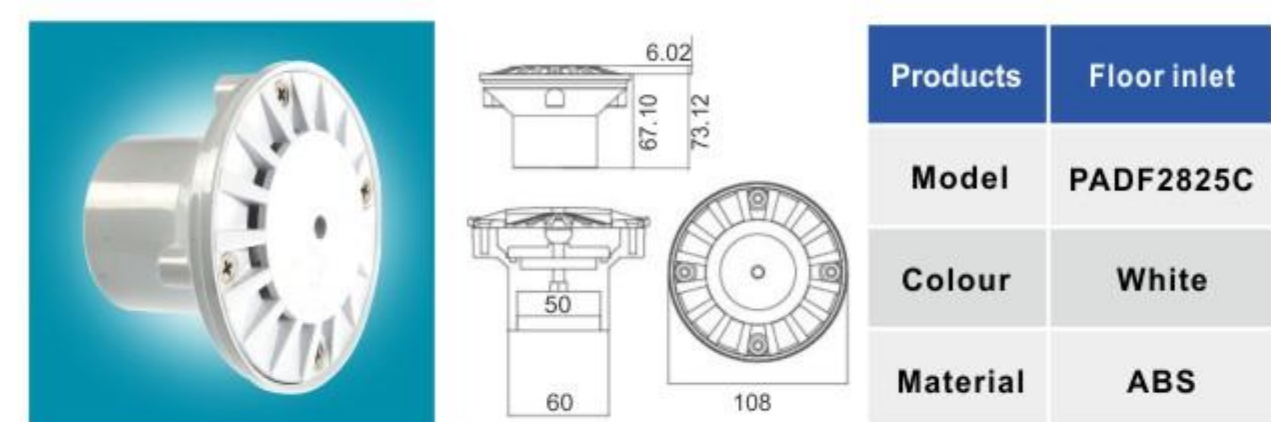
## POOL FITTINGS & CLEANERS



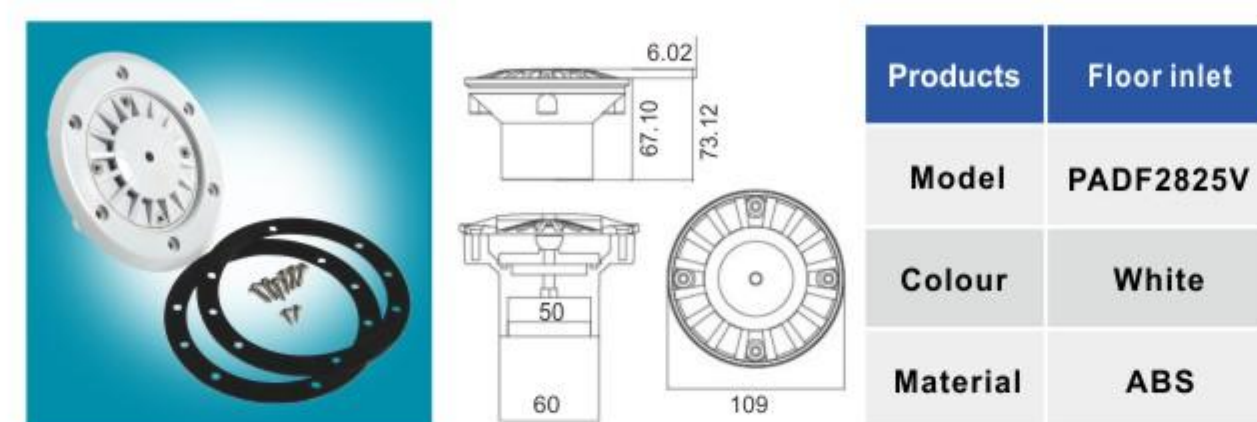
Products	Multiflow Wall Inlets
Model	WL-PJH20V
Colour	White
Material	ABS



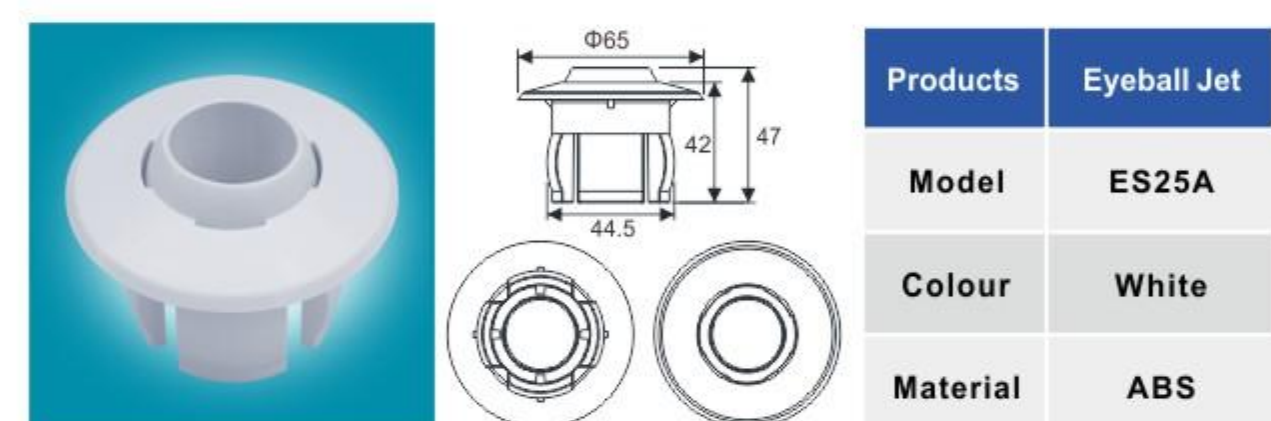
Products	Multiflow Wall Inlets
Model	WL-PJH25V
Colour	White
Material	ABS



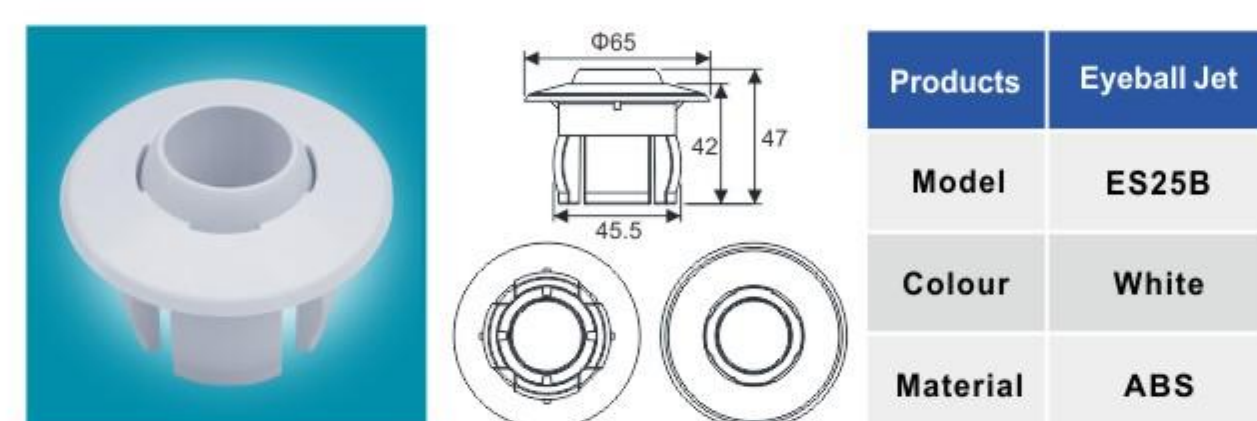
Products	Floor inlet
Model	PADF2825C
Colour	White
Material	ABS



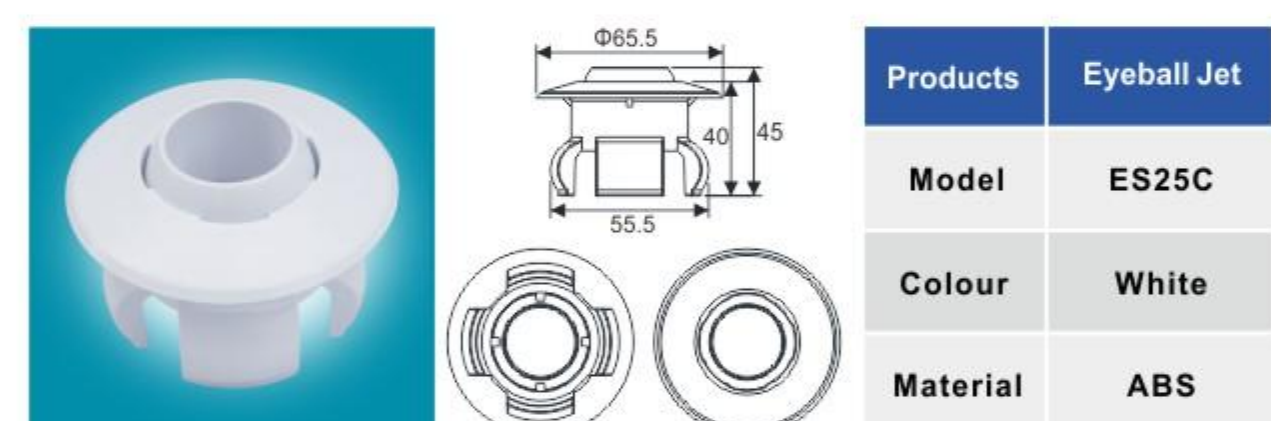
Products	Floor inlet
Model	PADF2825V
Colour	White
Material	ABS



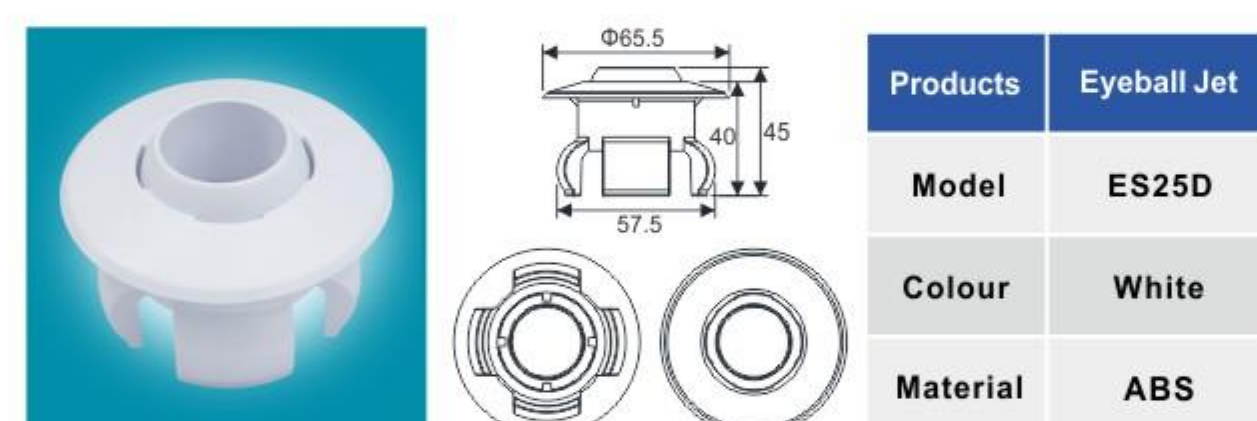
Products	Eyeball Jet
Model	ES25A
Colour	White
Material	ABS



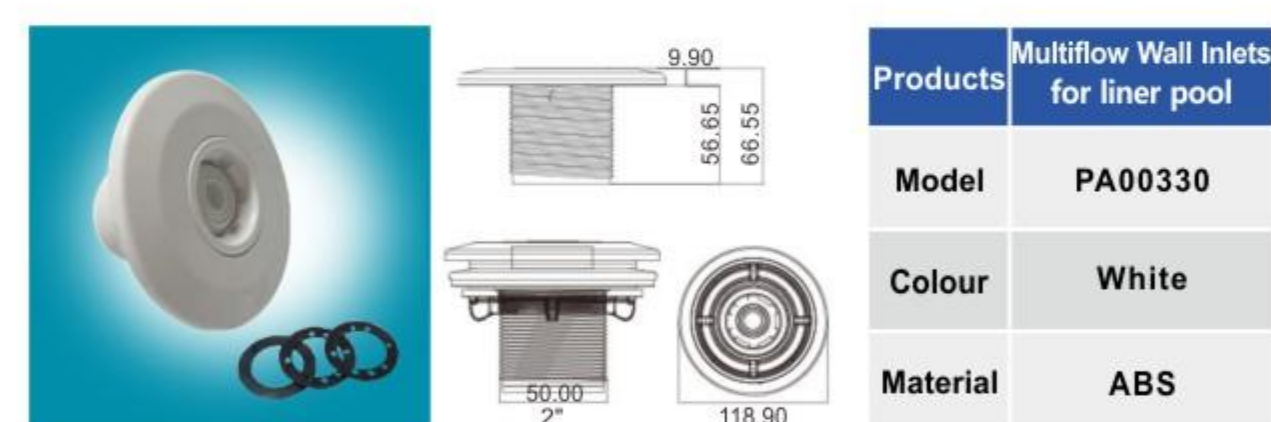
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Model	ES25B
Colour	White
Material	ABS



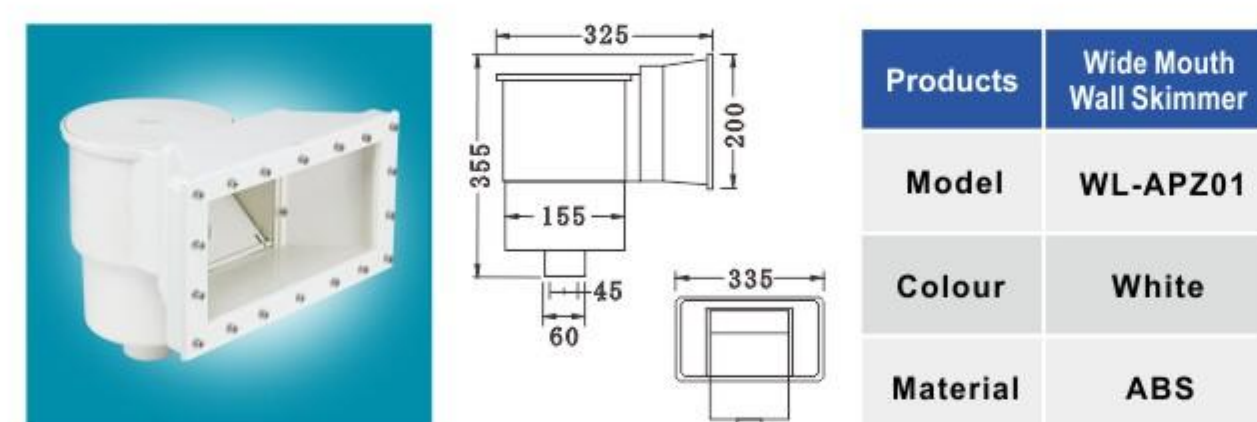
Products	Eyeball Jet
Model	ES25C
Colour	White
Material	ABS



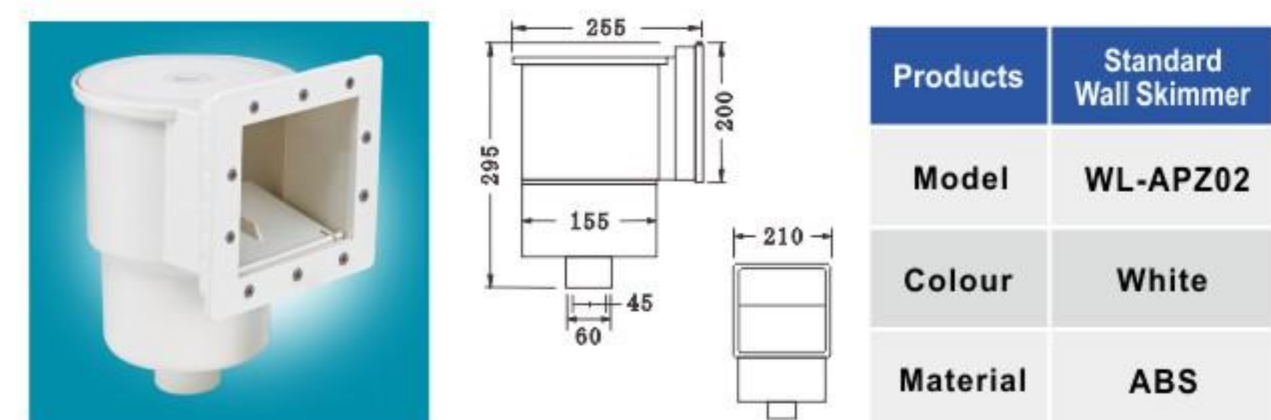
Products	Eyeball Jet
Model	ES25D
Colour	White
Material	ABS



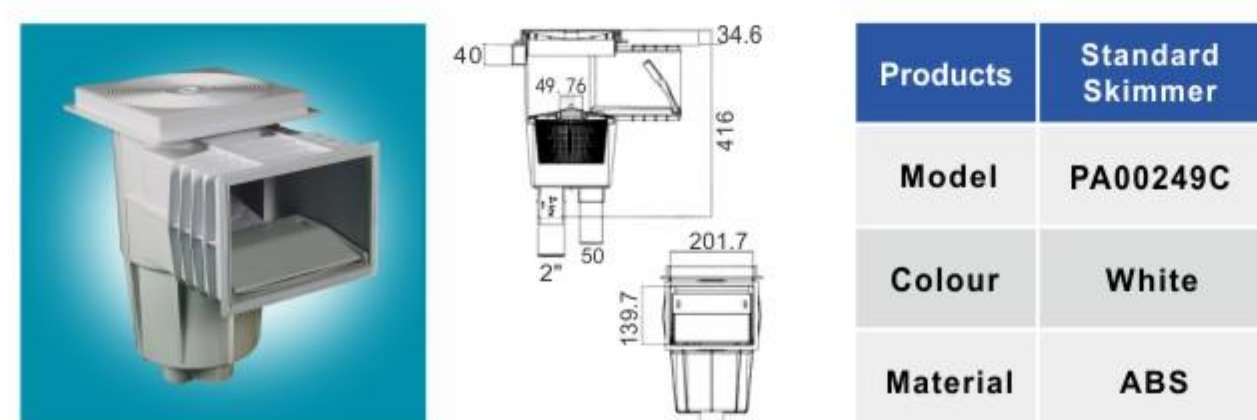
Products	Multiflow Wall Inlets for liner pool
Model	PA00330
Colour	White
Material	ABS



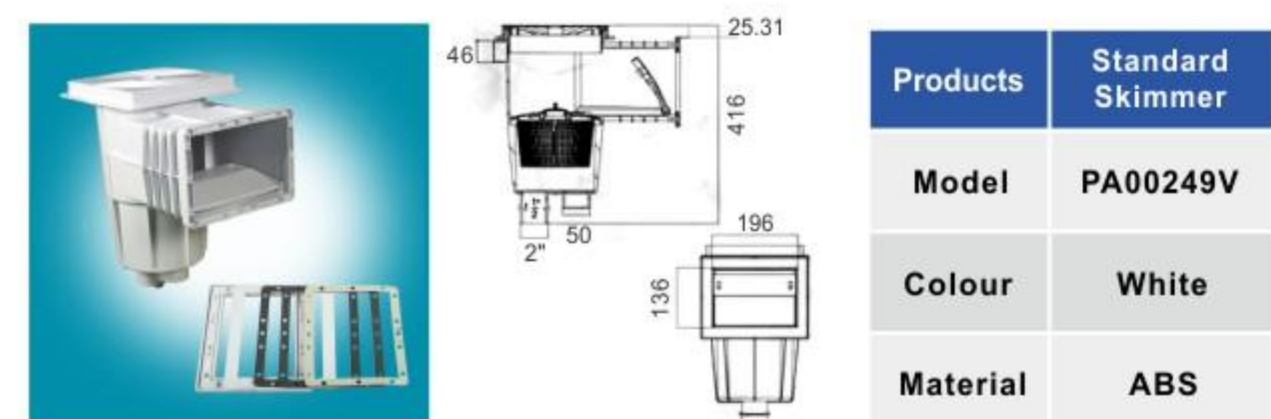
Products	Wide Mouth Wall Skimmer
Model	WL-APZ01
Colour	White
Material	ABS



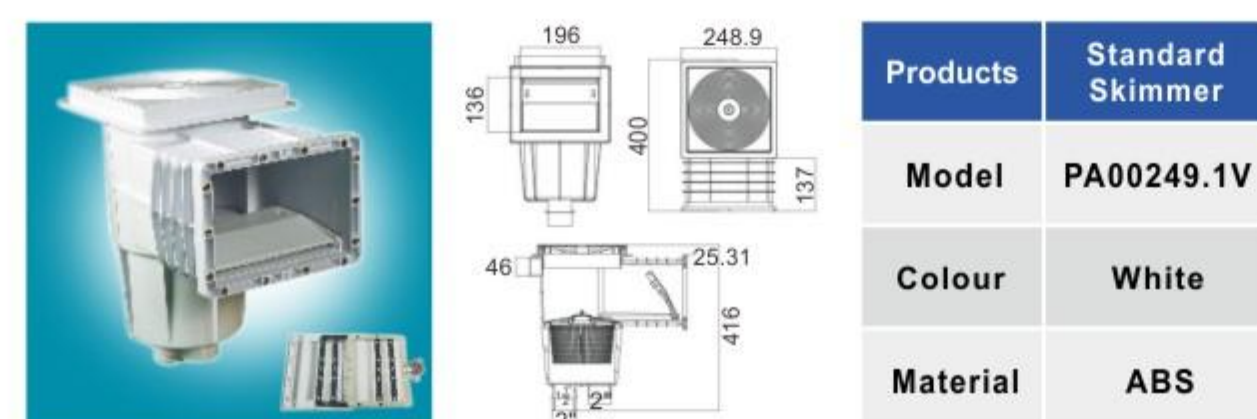
Products	Standard Wall Skimmer
Model	WL-APZ02
Colour	White
Material	ABS



Products	Standard Skimmer
Model	PA00249C
Colour	White
Material	ABS



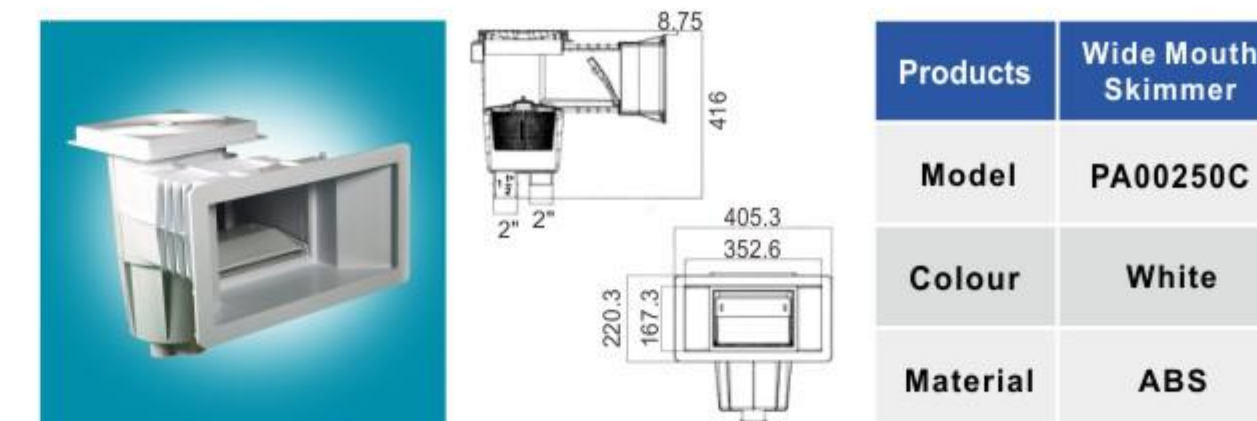
Products	Standard Skimmer
Model	PA00249V
Colour	White
Material	ABS



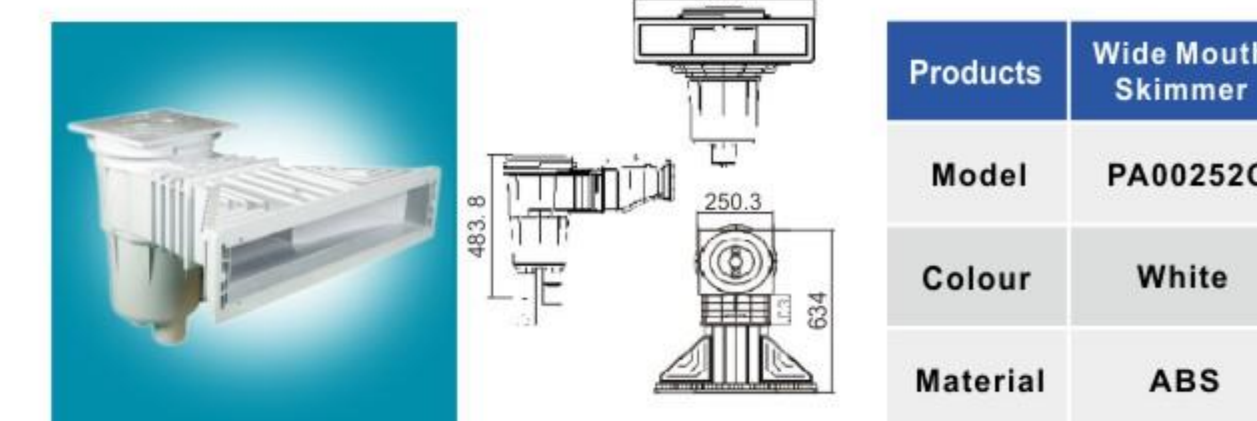
Products	Standard Skimmer
Model	PA00249.1V
Colour	White
Material	ABS

# POOL FITTINGS

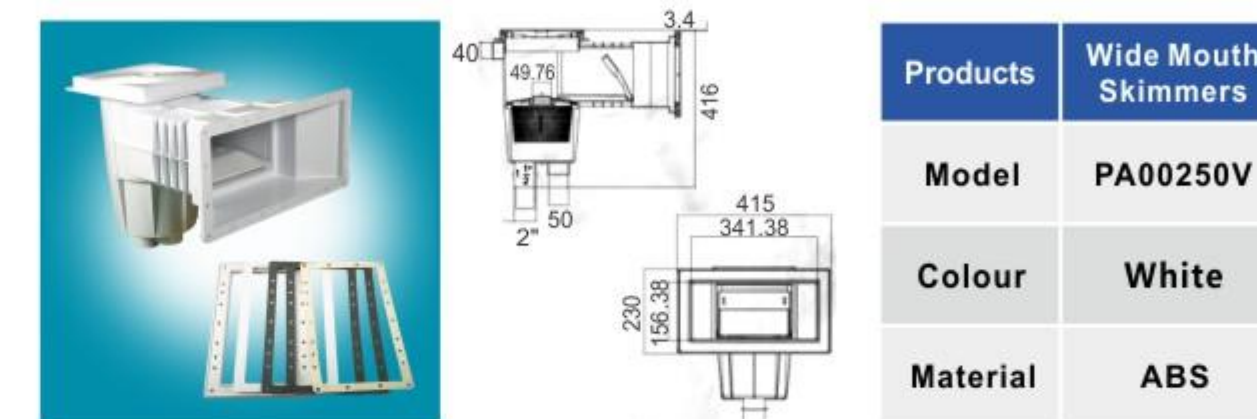
## POOL FITTINGS & CLEANERS



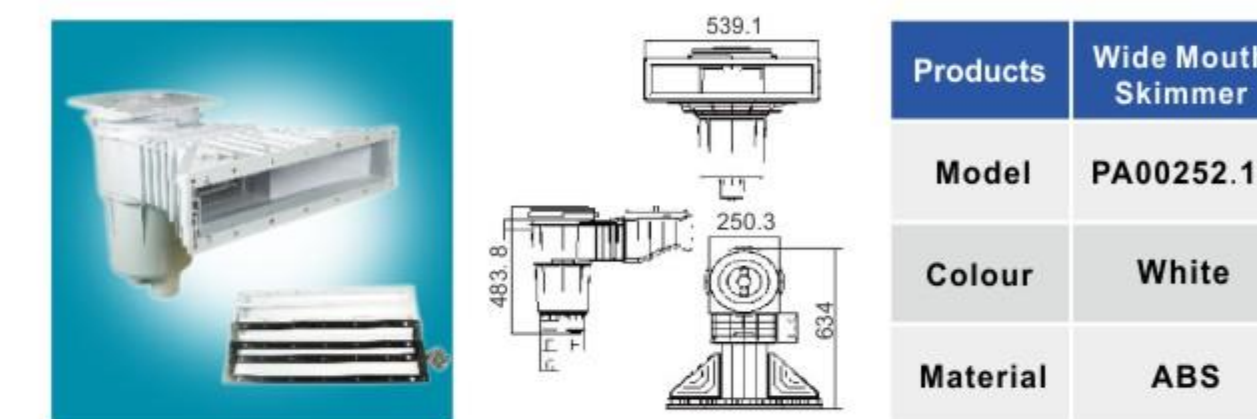
Products	Wide Mouth Skimmer
Model	PA00250C
Colour	White
Material	ABS



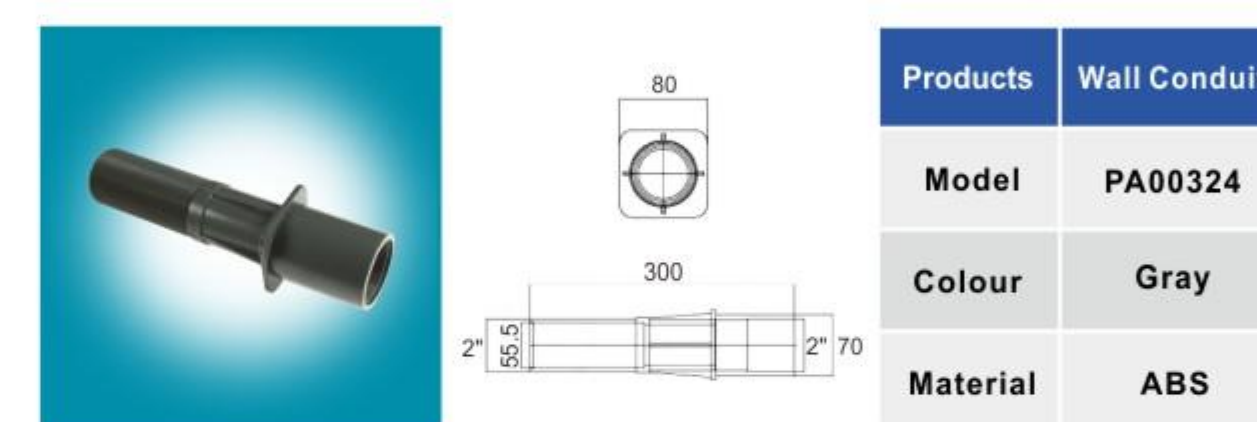
Products	Wide Mouth Skimmer
Model	PA00252C
Colour	White
Material	ABS



Products	Wide Mouth Skimmers
Model	PA00250V
Colour	White
Material	ABS



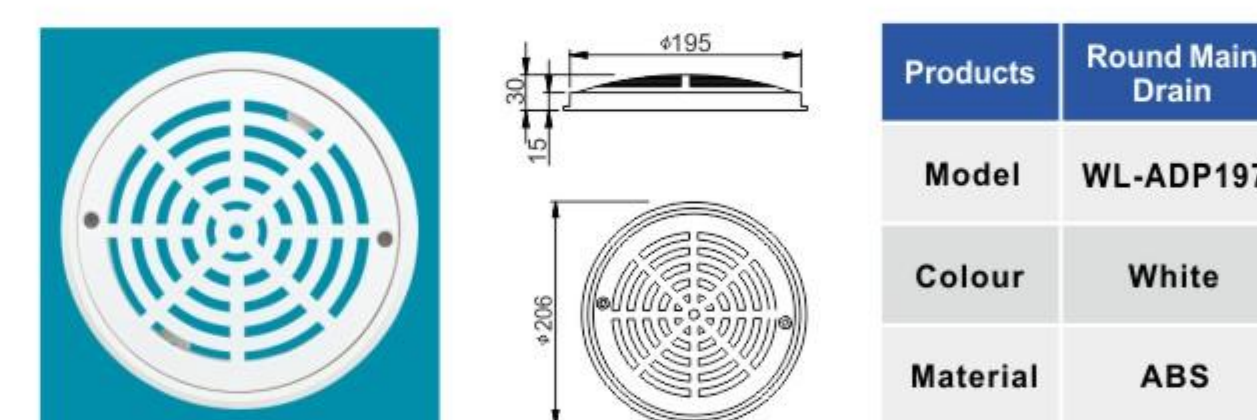
Products	Wide Mouth Skimmer
Model	PA00252.1V
Colour	White
Material	ABS



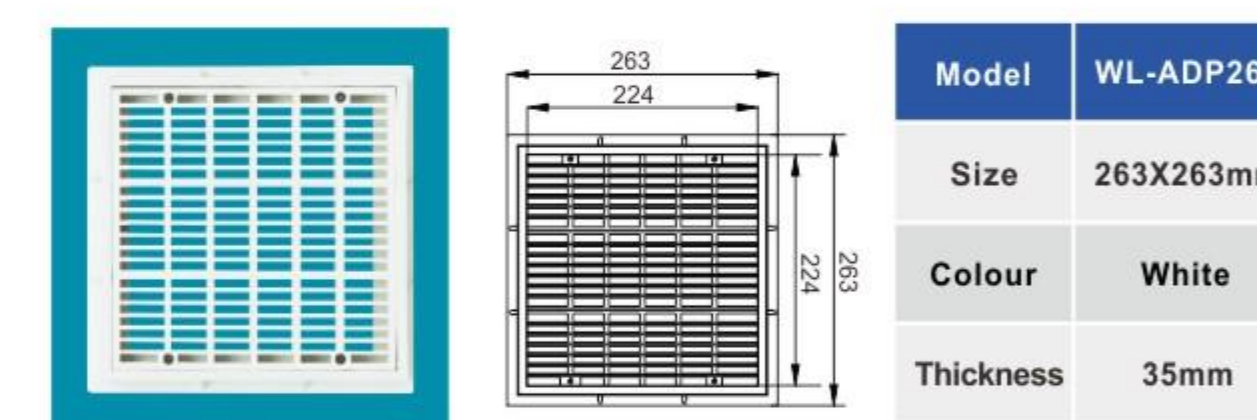
Products	Wall Conduit
Model	PA00324
Colour	Gray
Material	ABS

## MAIN DRAINS

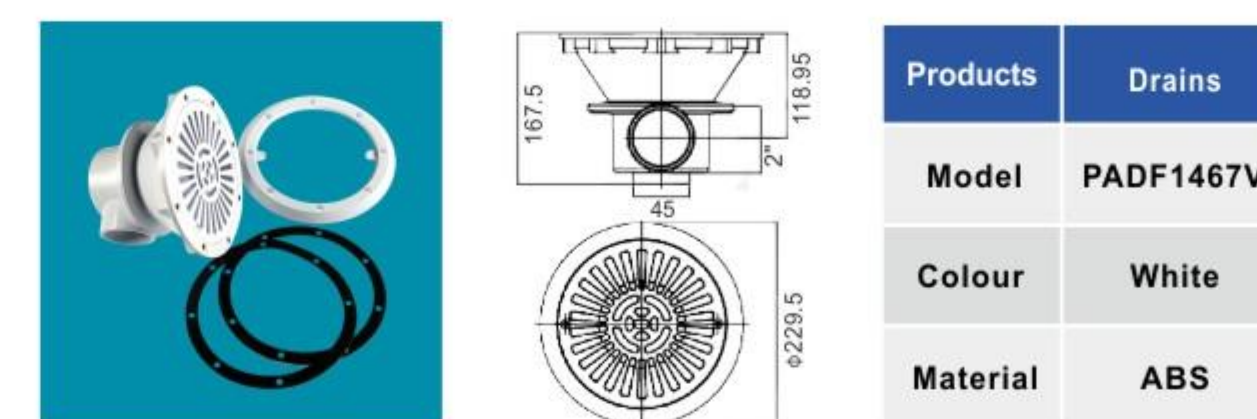
The main drains are available in a wide range of styles and sizes to satisfy any installation requirement of any concrete residential or commercial pools. These main drains are injection-molded of ABS, which resists chemical attack.



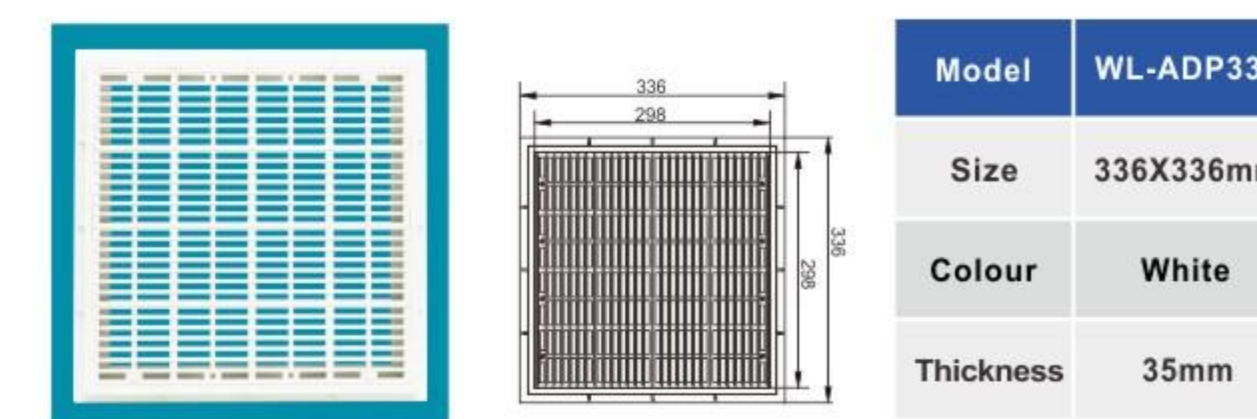
Products	Round Main Drain
Model	WL-ADP197
Colour	White
Material	ABS



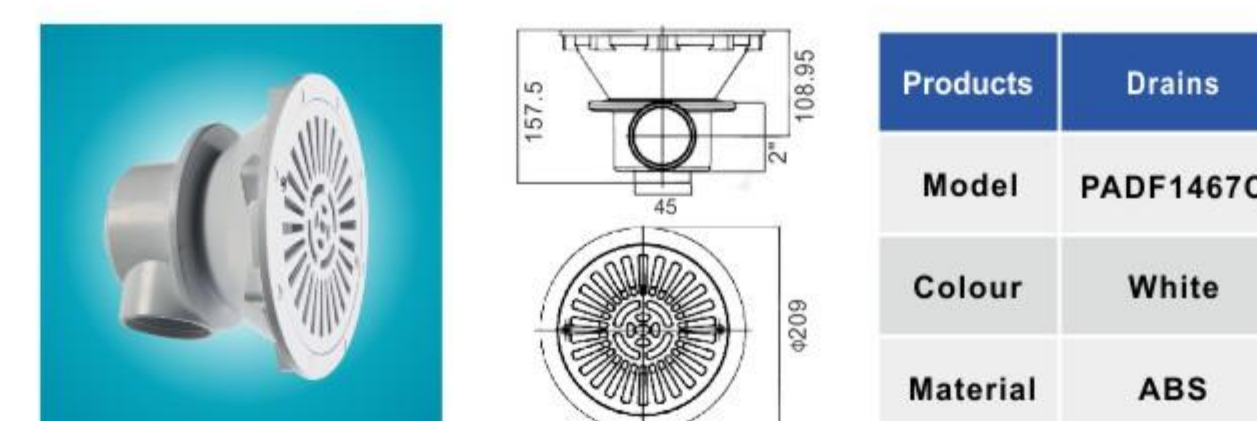
Model	WL-ADP263
Size	263X263mm
Colour	White
Thickness	35mm



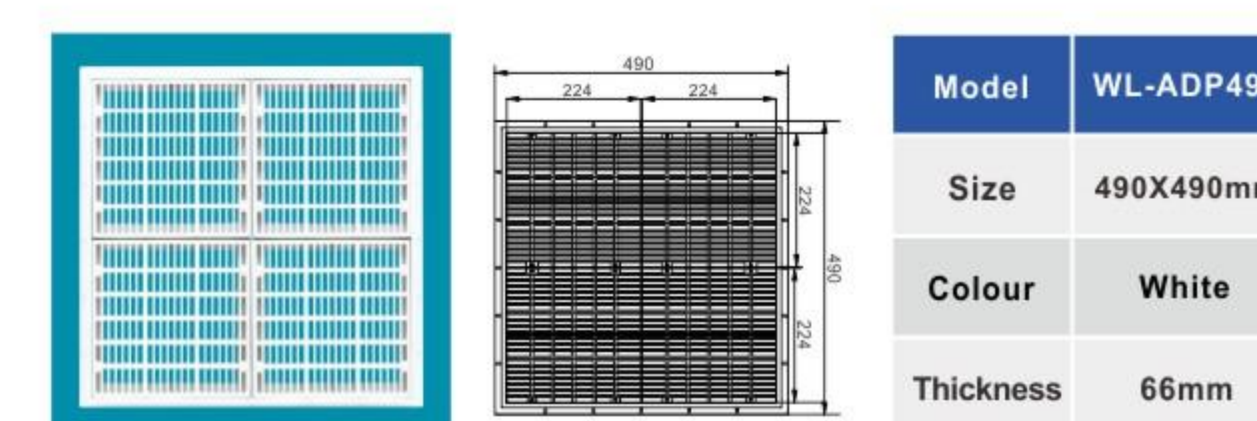
Products	Drains
Model	PADF1467V
Colour	White
Material	ABS



Model	WL-ADP336
Size	336X336mm
Colour	White
Thickness	35mm



Products	Drains
Model	PADF1467C
Colour	White
Material	ABS

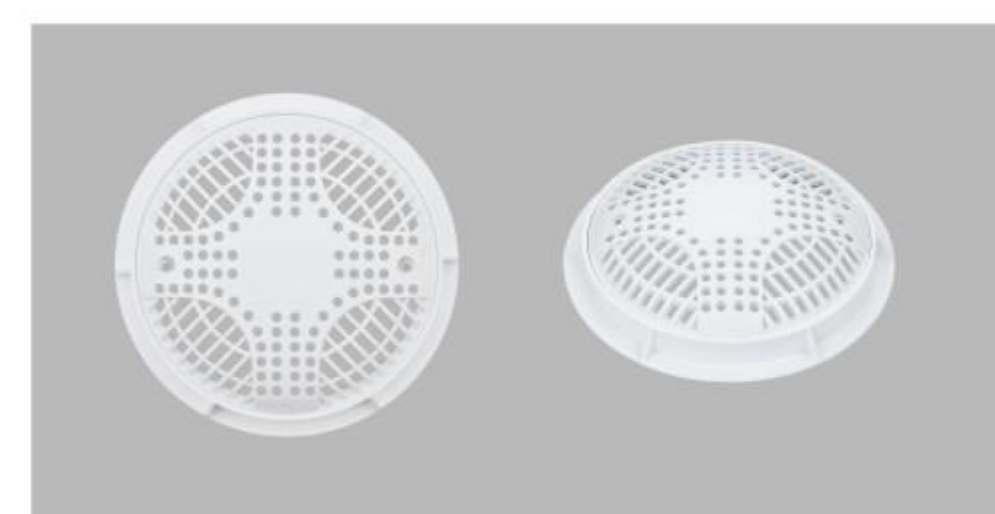
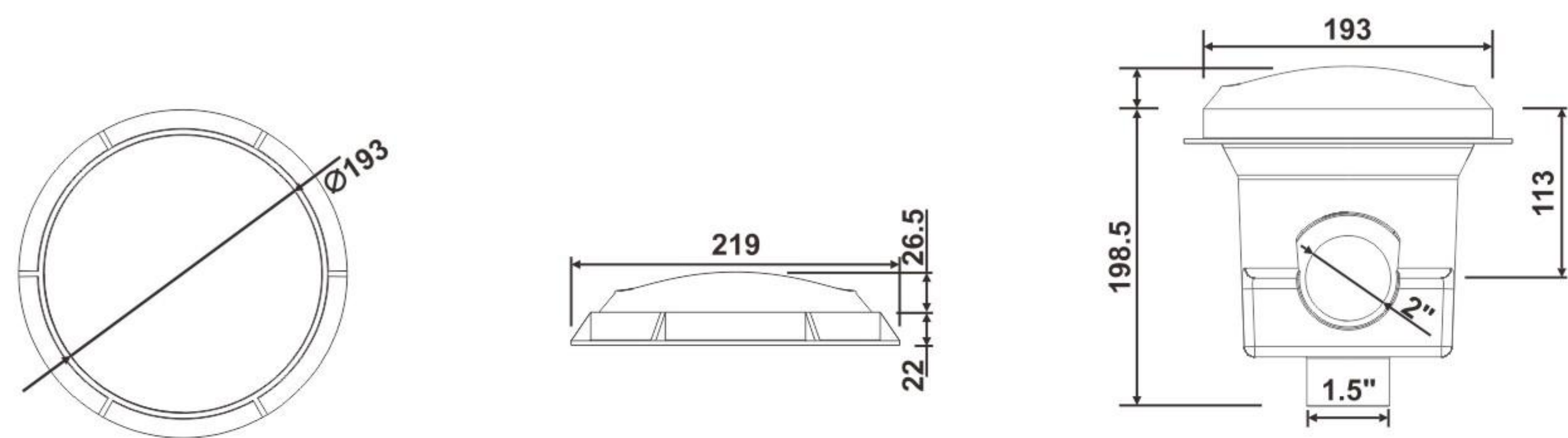


Model	WL-ADP490
Size	490X490mm
Colour	White
Thickness	66mm

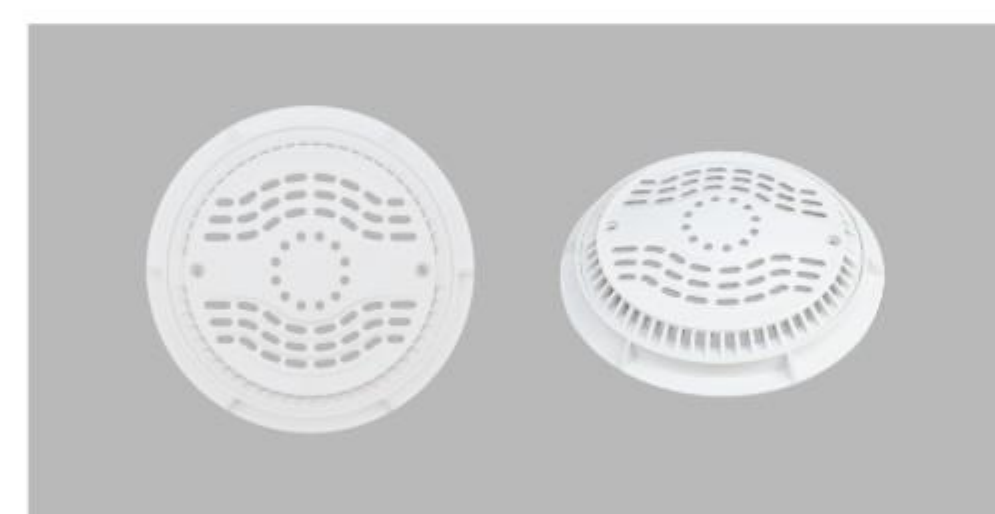
## ANTI-SUCTION MAIN DRAINS POOL FITTINGS & CLEANERS

**Features:**

- Curved surface design, anti-suction.
- UV-resistant, corrosion resistant, not easy to fade, longer life time.
- Meets various flow rate requirements.



WL-JDP200AL



WL-JDP200BL



WL-JDP200AH



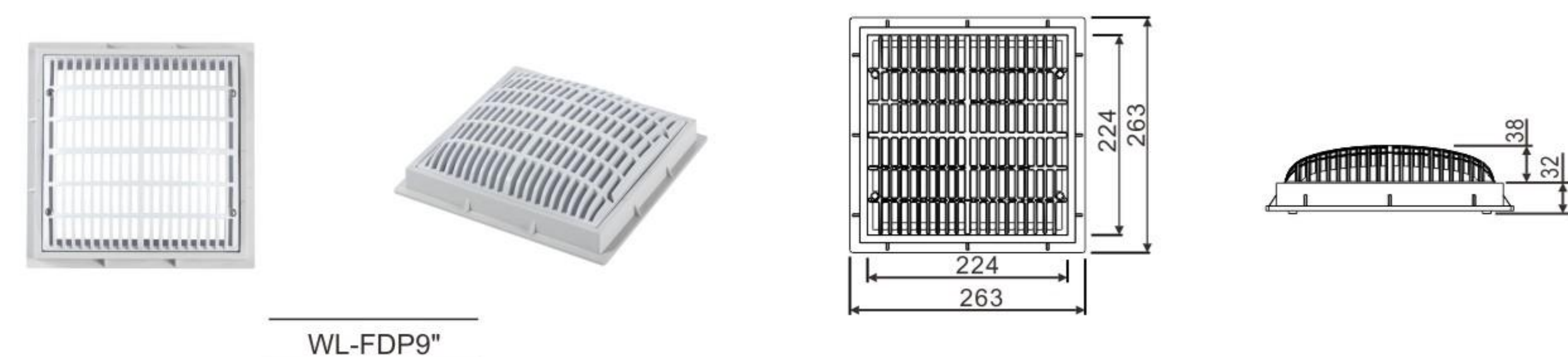
WL-JDP200BH

Model	Specification	Outlet	Cover Dia. (mm)	Height	Material	Max Flow Rate (m <sup>3</sup> /h)
WL-JDP200AL	cover + frame	—	193	22	ABS	33.5
WL-JDP200AH	cover+ body	side 2 bottom1.5"	193	198.5	ABS	33.5
WL-JDP200BL	cover + frame	—	193	22	ABS	33.5
WL-JDP200BH	cover+ body	side 2 bottom1.5"	193	198.5	ABS	33.5

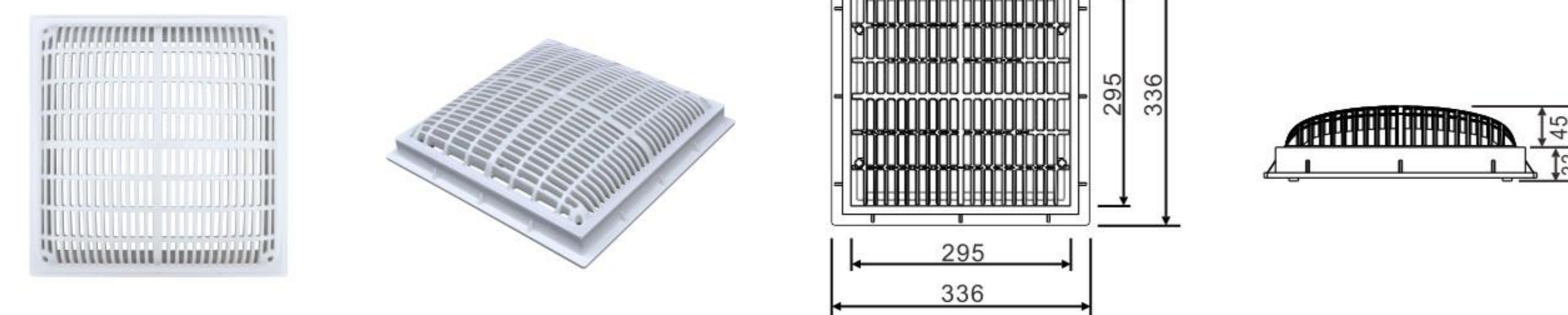
## ANTI-SUCTION MAIN DRAINS POOL FITTINGS & CLEANERS

**Features:**

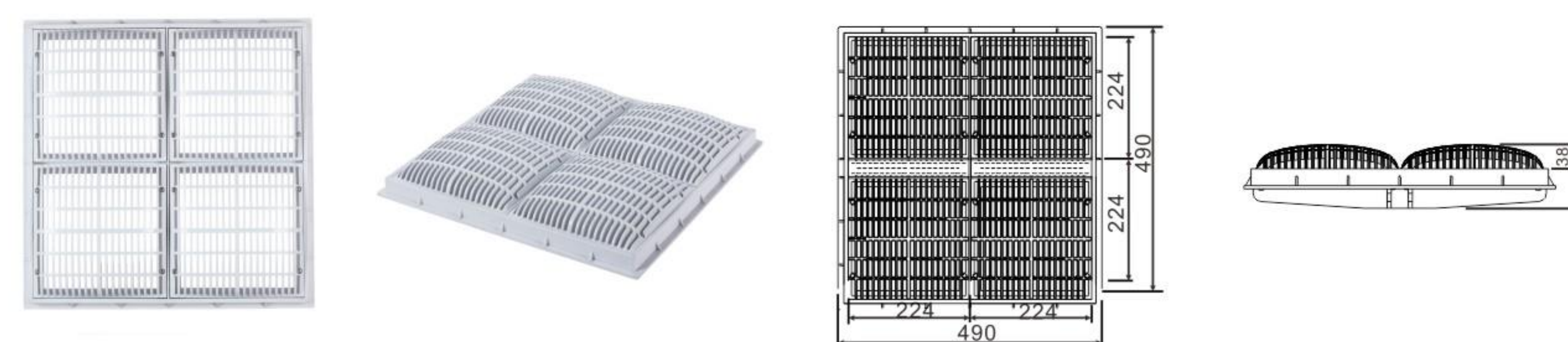
- Curved surface design, anti-suction.
- Manufactured from UV- resistant engineered polymers.
- Used in new construction or to retrofit into existing Laswim frames.
- Meets various flow rate requirements.



WL-FDP9"



WL-FDP12"

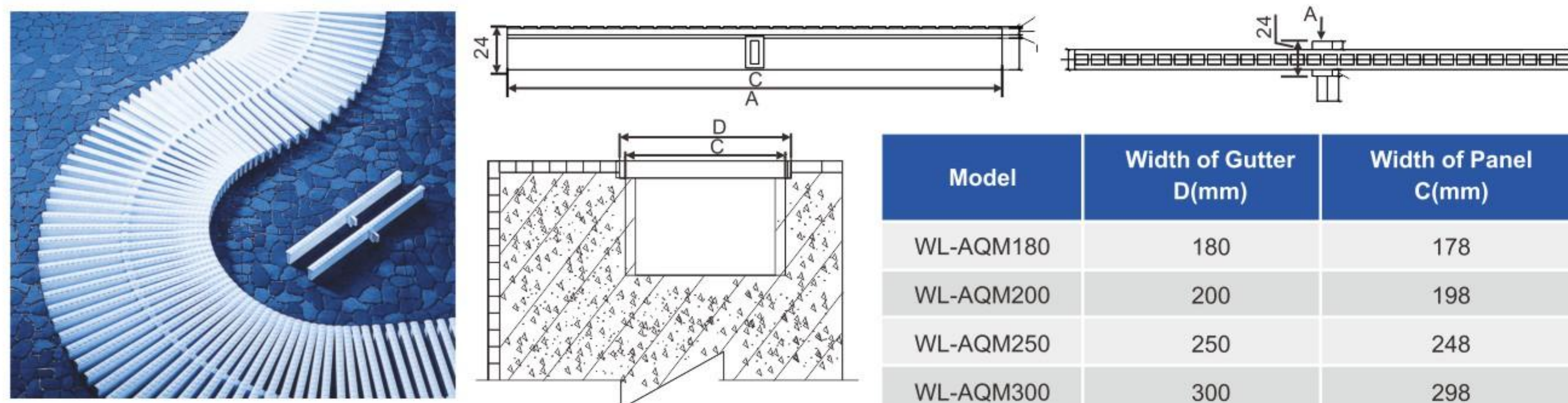


WL-FDP18"

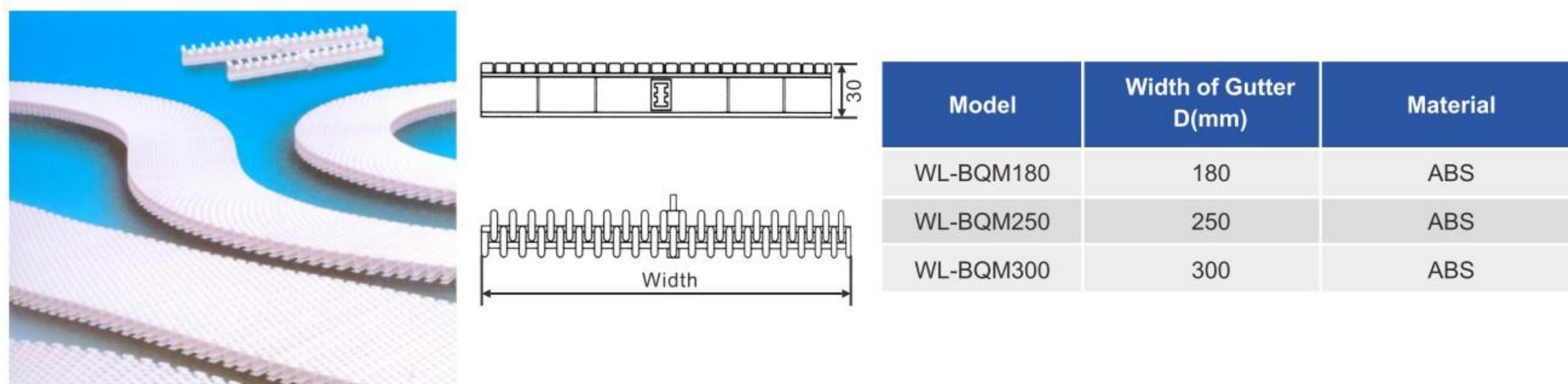
Model	Size (inch/ mm)	Thickness (mm)	Material	Design Flow (m <sup>3</sup> /h)
WL-FDP9"	9" x 9" 263mm x263mm	70	ABS	23
WL-FDP12"	12" x 12" 336mm x336mm	78	ABS	88
WL-FDP18"	18" x 18" 490mm x490mm	100	ABS	93

## GUTTER GRATINGS POOL FITTINGS & CLEANERS

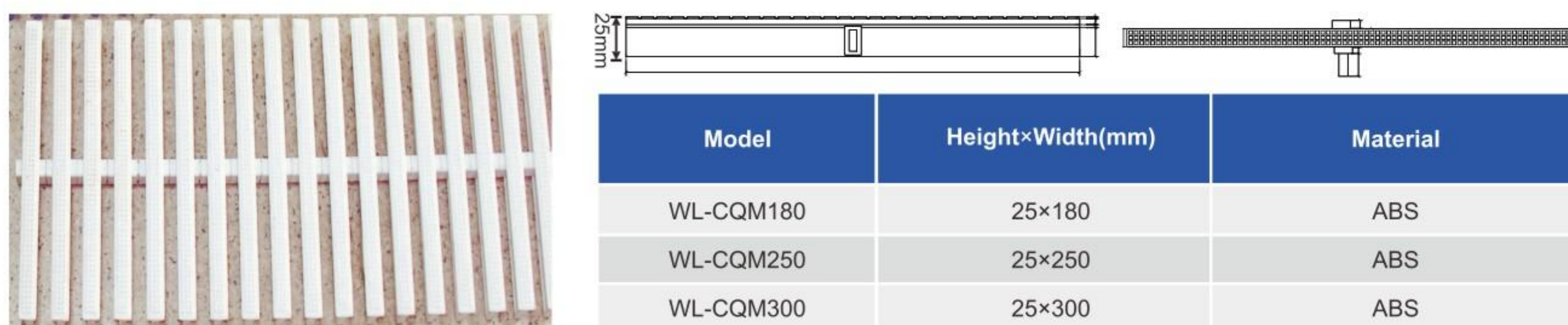
Gutter grating is molded in white UV resistant ABS. Top of grating features an anti-slip finish and it is composed of individual units connecting along a central spine. This design allows for easier installation without the need for cutting also allowing the grating to curve as necessary.



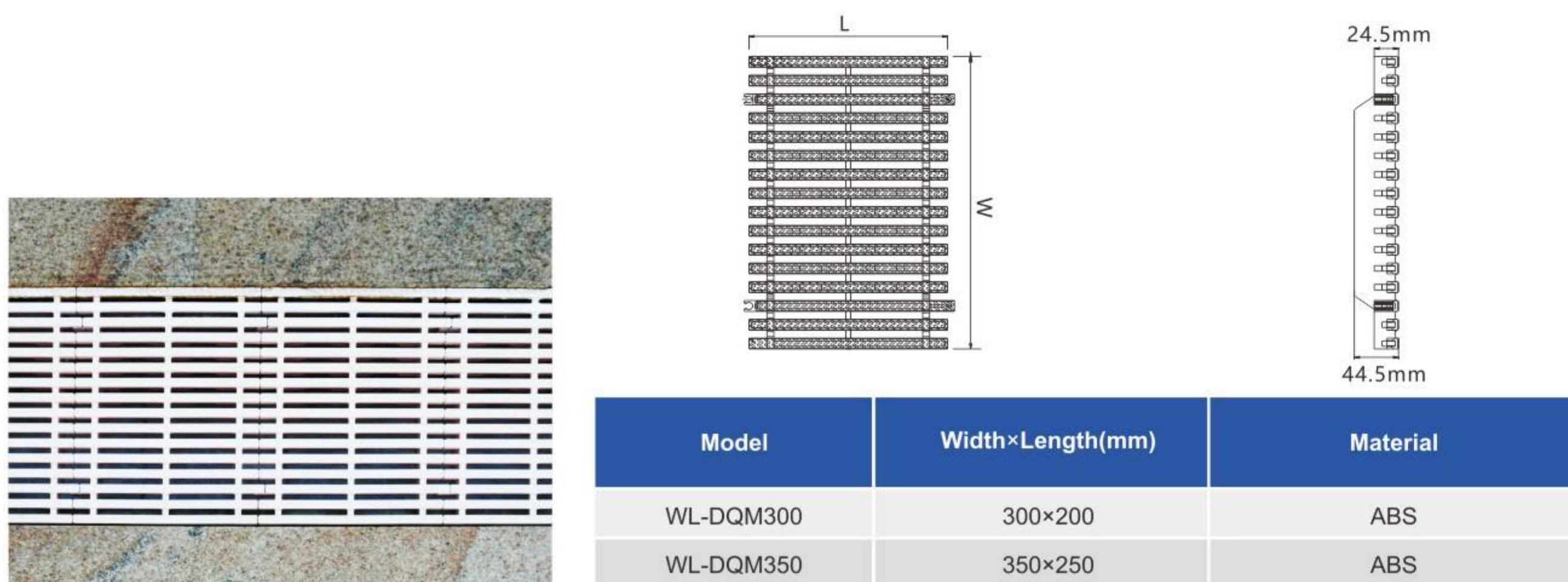
Model	Width of Gutter D(mm)	Width of Panel C(mm)
WL-AQM180	180	178
WL-AQM200	200	198
WL-AQM250	250	248
WL-AQM300	300	298



Model	Width of Gutter D(mm)	Material
WL-BQM180	180	ABS
WL-BQM250	250	ABS
WL-BQM300	300	ABS



Model	Height×Width(mm)	Material
WL-CQM180	25×180	ABS
WL-CQM250	25×250	ABS
WL-CQM300	25×300	ABS



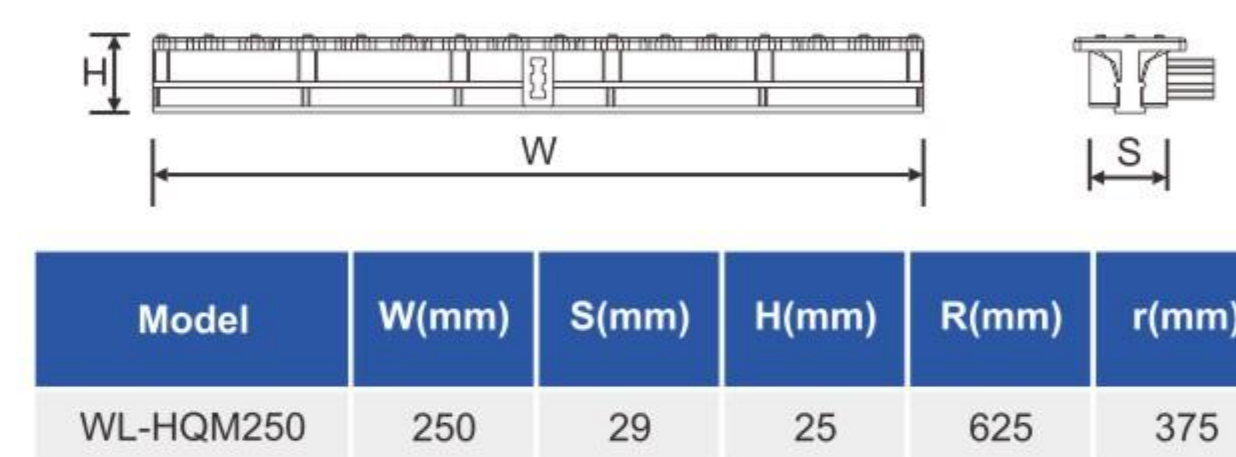
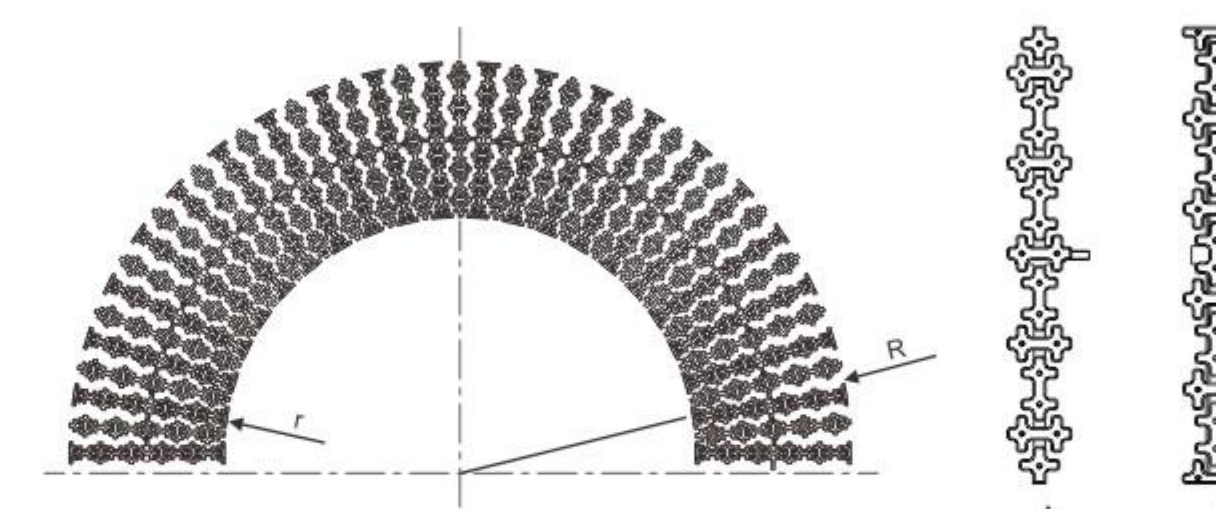
Model	Width×Length(mm)	Material
WL-DQM300	300×200	ABS
WL-DQM350	350×250	ABS

## GUTTER GRATINGS POOL FITTINGS & CLEANERS



### Features:

- Comply with the standard of EN-13451 and CJJ122-2008.
- Anti-slip, safe, super strong, durable.
- UV-resistant, not easy to fade or break, longer using life.
- To be easy to install and flexible to meet a variety of different swimming pool specifications.
- Composed of Part A and Part B as below drawing, Length is adjustable.
- Can make an arc with minimum radius of 625mm.



Model	W(mm)	S(mm)	H(mm)	R(mm)	r(mm)
WL-HQM250	250	29	25	625	375

## SAFETY CHECK VALVE

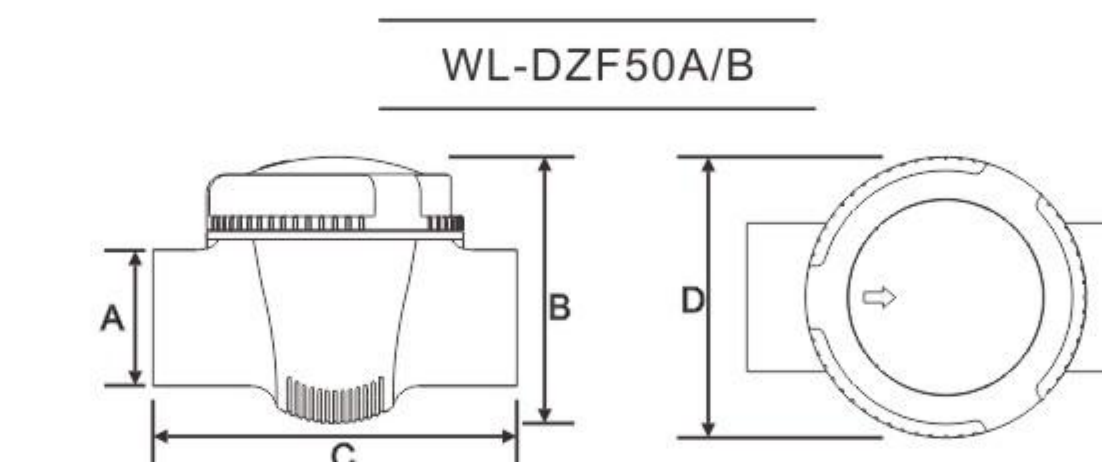
Safety check valve is an essential accessory for circulating pumps. Its main function is to avoid damaging the impeller when pump stops working.

LASWIM safety check valve is specially designed for swimming pool and spa and it relies on the flow of the liquid itself to turn on and turn off the seal baffle automatically, then form the directional flow of the liquid. It ensures the directional flow of water from swimming pool and spa and prevents water from backflow.

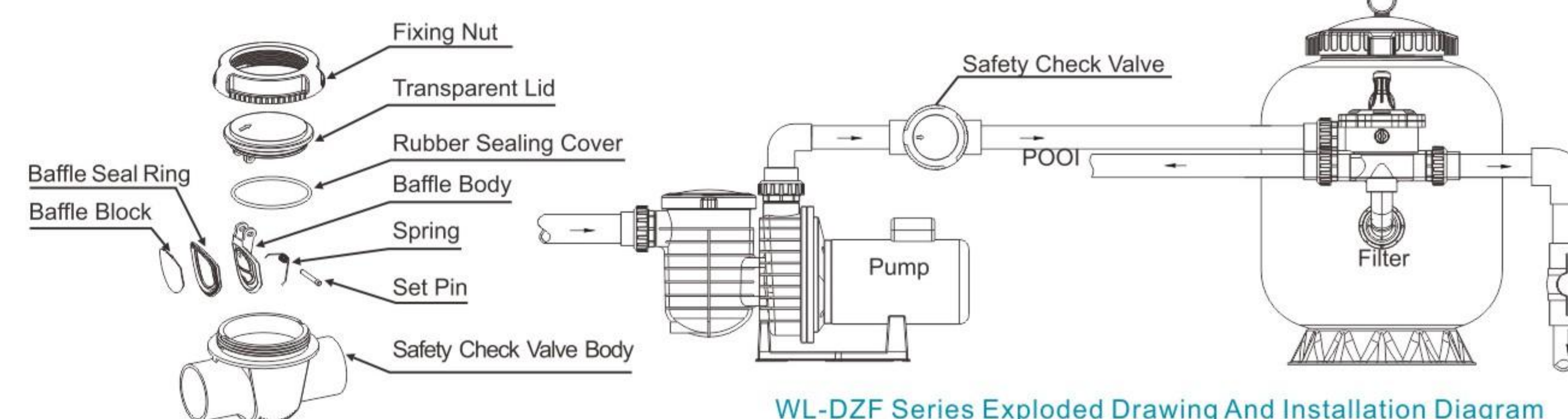
### Features:

- Transparent lid, easy to check the flow direction of water.
- Tested seal baffle and SS spring ensure reliability.
- Made of ABS.
- Safety check valve comes in metric or imperial is optional.

DZF series Safety Check Valve has two models: model A and model B, model A : 2" model B : Φ63mm



Model	A	B	C	D
DZF50-A	Φ2"	139	190	Φ134
DZF50-B	Φ63	139	190	Φ134

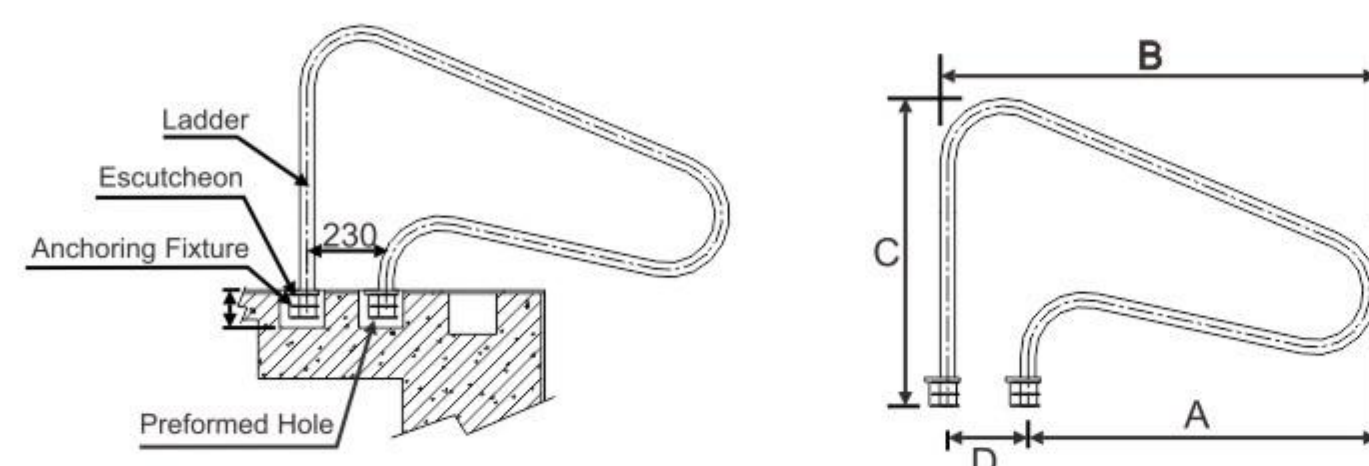


WL-DZF Series Exploded Drawing And Installation Diagram

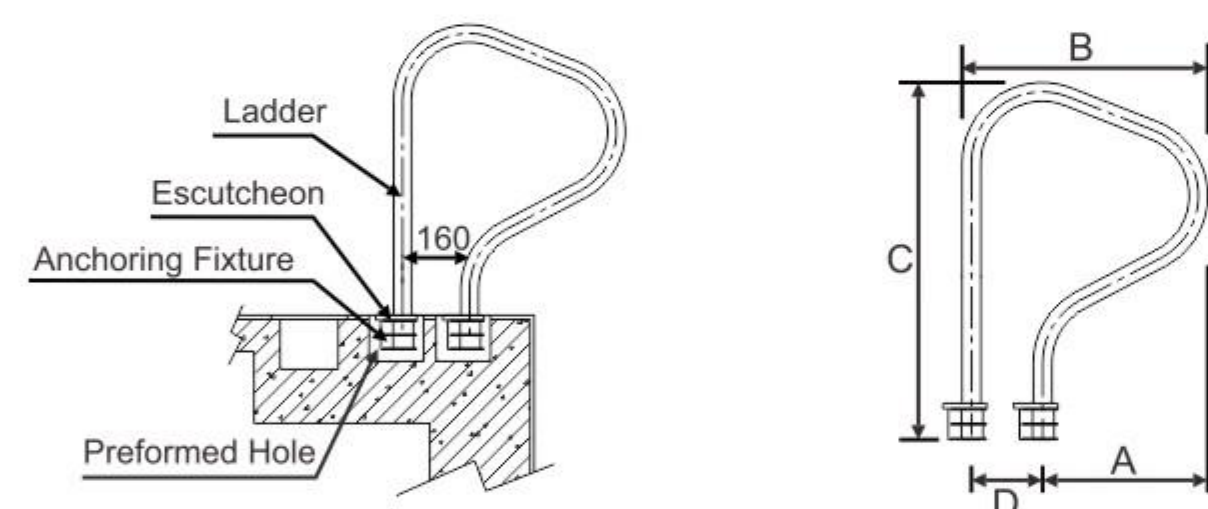
# LADDERS POOL FITTINGS & CLEANERS

## 1. Grab Rails and Anchor Sockets

Closed rail design and constructed with polished Stainless Steel and Anchor Socket.

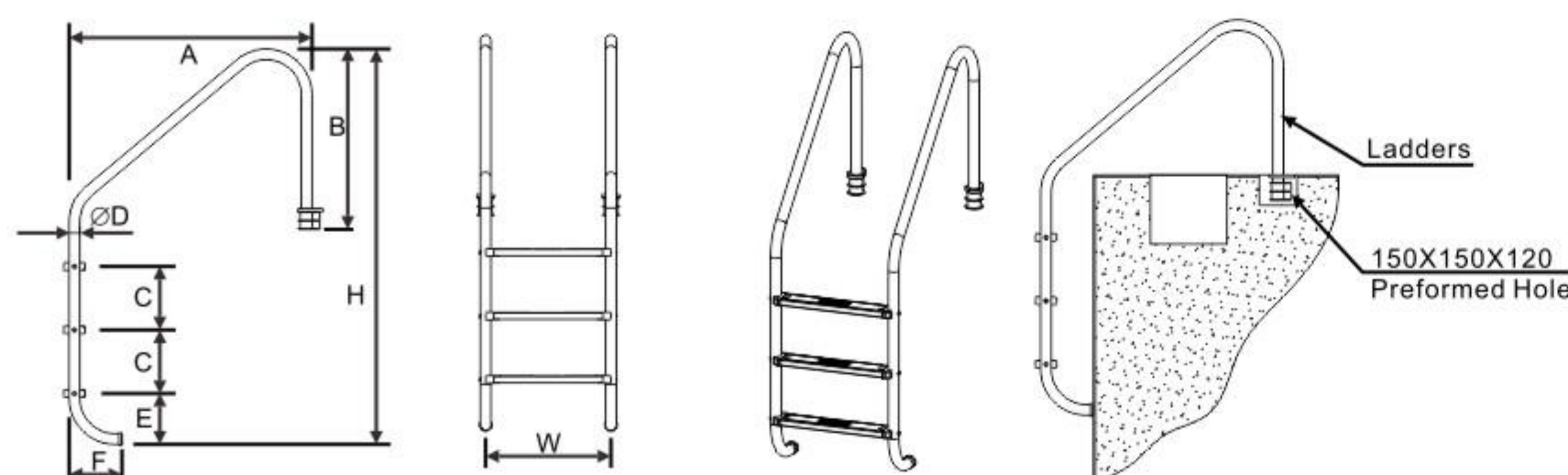


Model	A (mm)	B (mm)	C (mm)	D (mm)	Specification
WL-SRG	1000	1250	880	230	Φ42



Model	A (mm)	B (mm)	C (mm)	D (mm)	Specification
WL-SRB	375	555	805	160	Φ42

## 2. Ladder For Overflow Pool



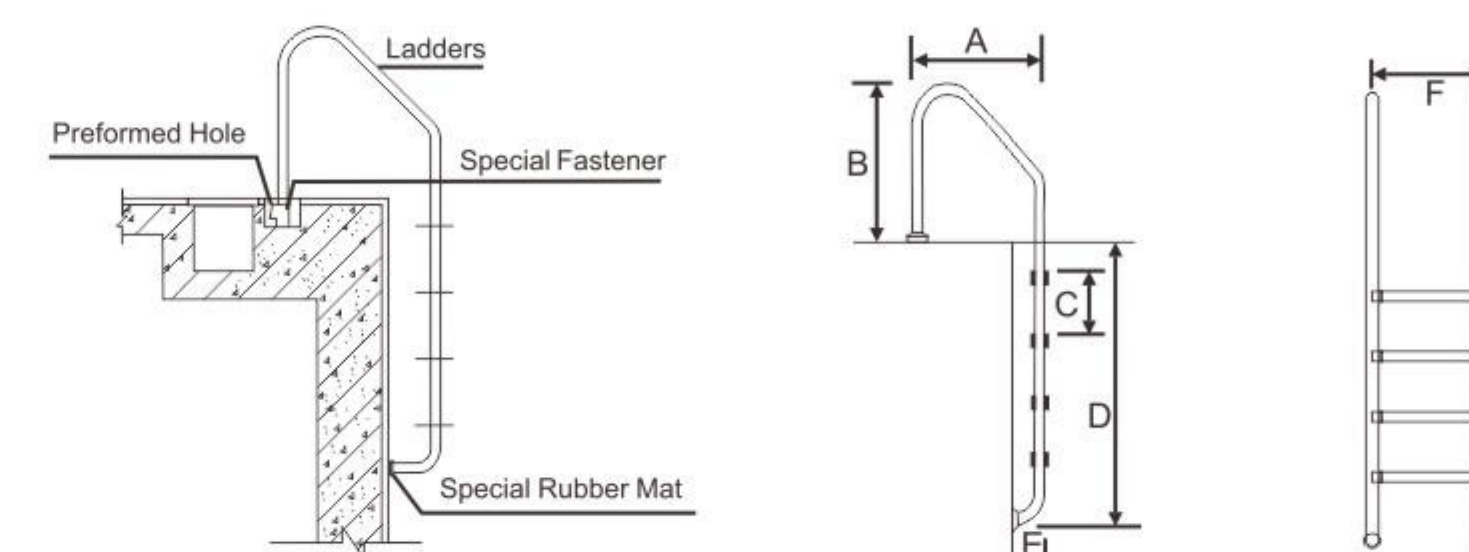
Model	A (mm)	B (mm)	C (mm)	∅D (mm)	E (mm)	F (mm)	H (mm)	W (mm)
WL-KFT202	957	710	250	42	200	208	1306	500
WL-KFT203	957	710	250	42	200	208	1556	500
WL-KFT204	957	710	250	42	200	208	1806	500
WL-KFT205	957	710	250	42	200	208	2056	500

# LADDERS POOL FITTINGS & CLEANERS

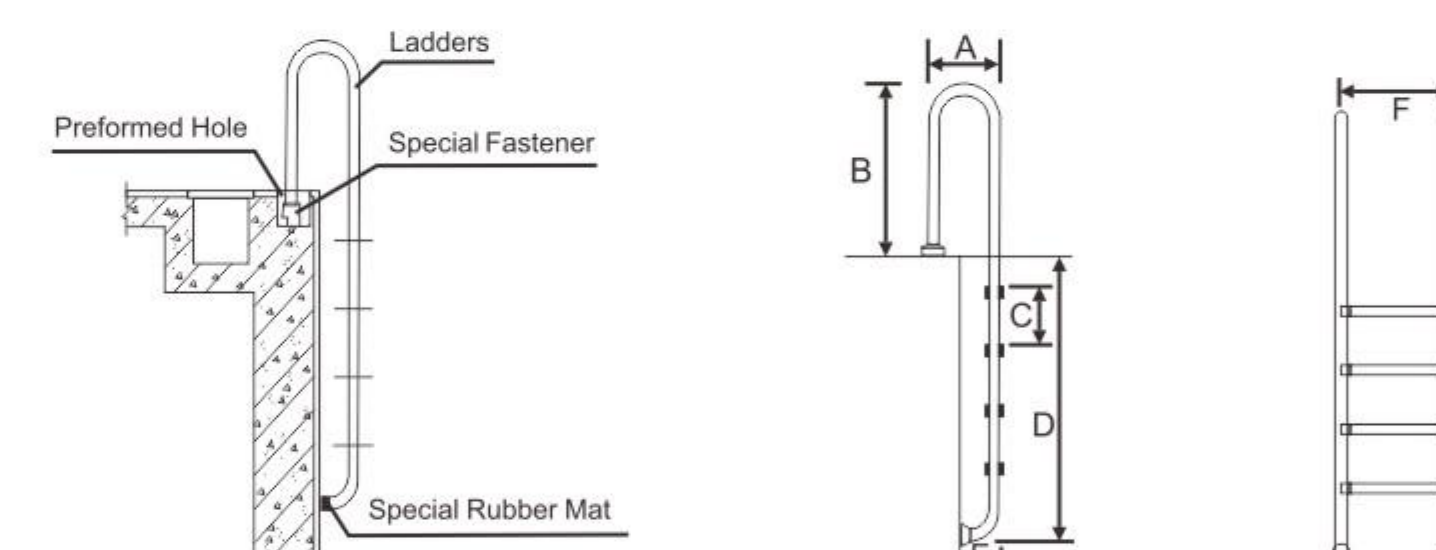
3. Ladders for embedded pools. Handrails in hand polished stainless steel pipe. Steps in stainless steel and anti-slip. Complete with anchoring fixtures and earth connection. Easy installation (with diameter 42mm).



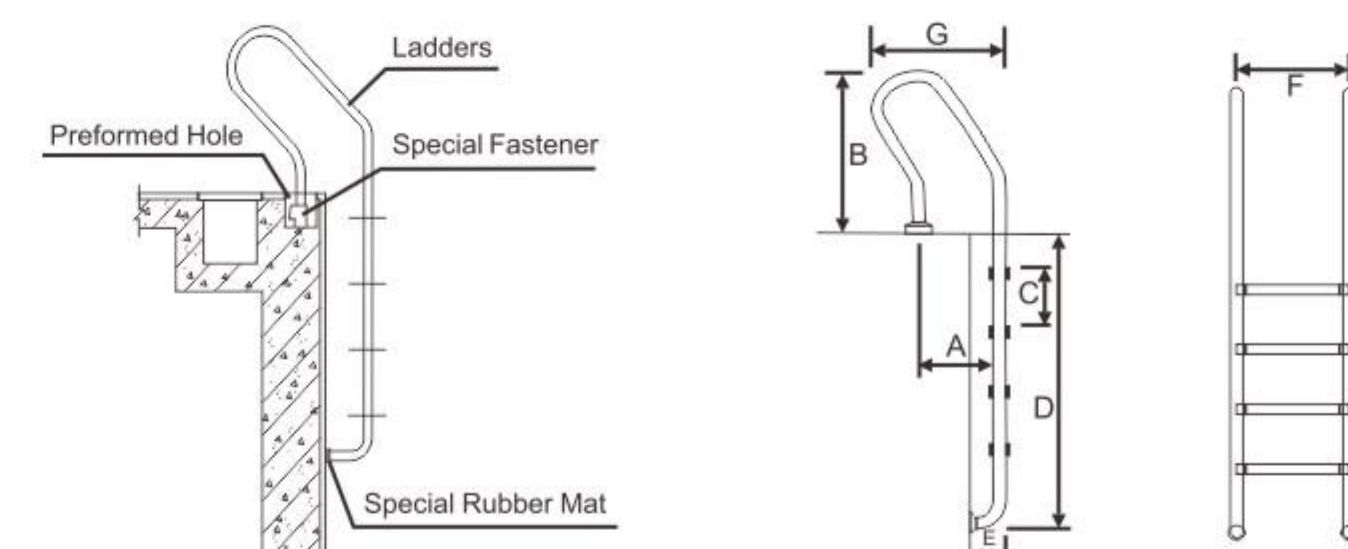
Anti-Slip Steps      Anti-Slip Steps



Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Specification
WL-SL202	592	700	250	600	180	500	Φ42
WL-SL203	592	700	250	850	180	500	
WL-SL204	592	700	250	1100	180	500	
WL-SL205	592	700	250	1350	180	500	



Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Specification
WL-MC202	314	700	250	600	180	500	Φ42
WL-MC203	314	700	250	850	180	500	
WL-MC204	314	700	250	1100	180	500	
WL-MC205	314	700	250	1350	180	500	



Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Specification
WL-SF202	280	700	250	600	180	500	592	Φ42
WL-SF203	280	700	250	850	180	500	592	
WL-SF204	280	700	250	1100	180	500	592	
WL-SF205	280	700	250	1350	180	500	592	



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10

## FULLY INTEGRATED WATER TREATMENT UNIT



# FULLY INTEGRATED WATER TREATMENT UNIT COMMERCIAL SWIMMING POOL

Innovative installation methods double the results with half the effort.

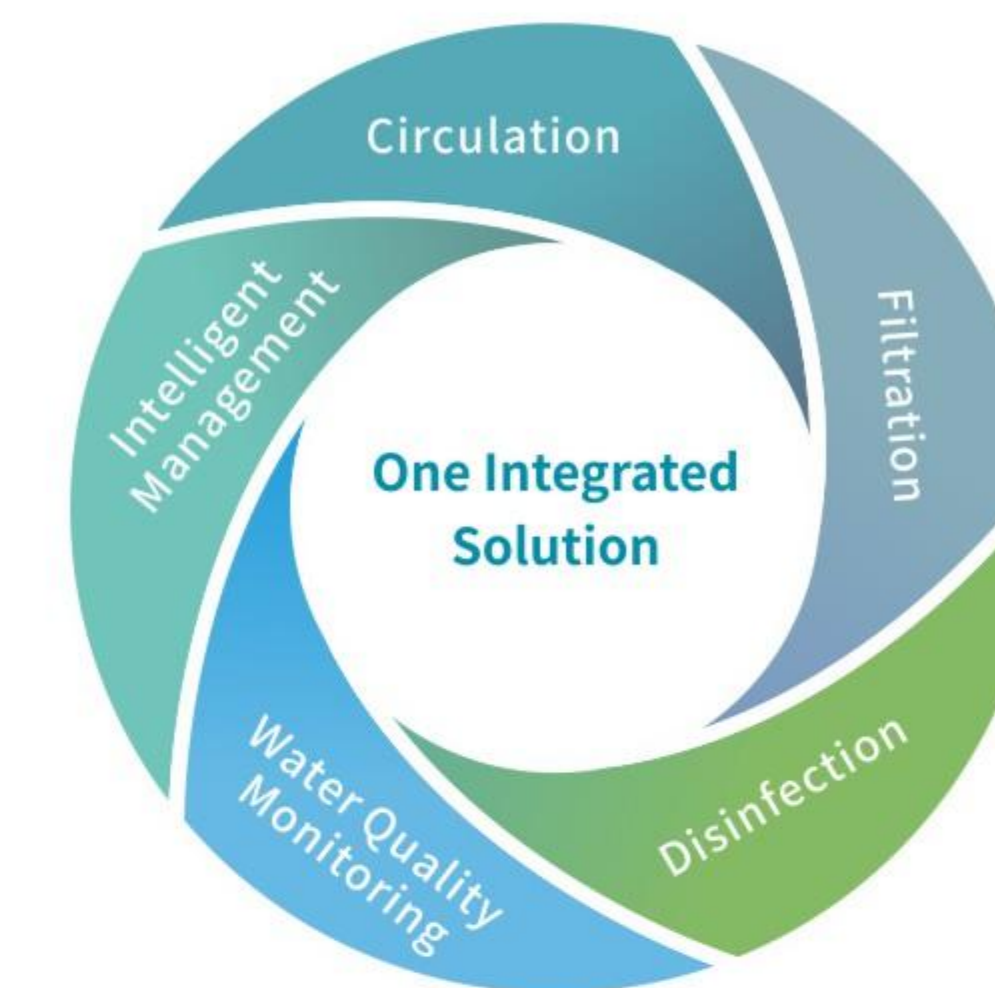
 Reduced Construction Time	 Land-Saving Design	 Customized Services
 Smart Control	 High Safety Standards	 Highly Practical



## Product Overview

Leveraging over 30 years of industry expertise, LASWIM has developed an innovative, modular, and systematic Commercial Modular Smart Water Treatment System. This system integrates advanced engineering experience with a robust R&D and manufacturing platform tailored for swimming pool environments.

- The system developed by LASWIM integrates circulation, filtration, disinfection, water quality monitoring, and intelligent management into one high-end water treatment unit.
- BIM (Building Information Modeling) technology is employed to enable visualized and digitalized engineering installation, significantly shortening the construction timeline.
- The integrated multifunctional design not only reduces equipment investment for clients but also accelerates project delivery
- In terms of operation and maintenance, the system is equipped with smart control features. Through newly designed automated and intelligent modules, it supports unattended operation and management, effectively lowering operational costs.



Traditional commercial pool projects often involve multiple disciplines and face the following challenges:



Equipment must be installed and commissioned one by one, resulting in extended construction periods.



Equipment such as water quality analyzers and disinfection devices need to be purchased separately, increasing investment costs.

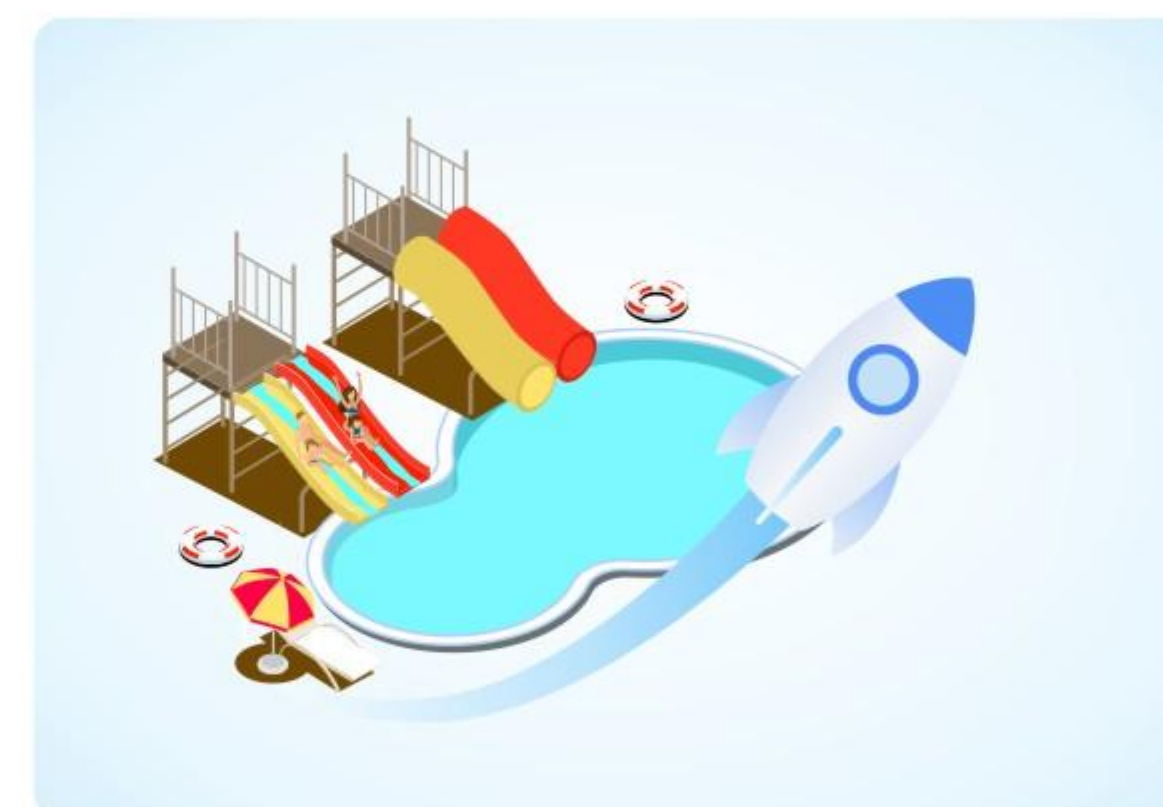


Continuous water quality monitoring, maintenance, and management are required during operation, leading to significant operational expenses.

## Product Advantages

### Reduced Construction Time

Designed and manufactured based on specific project conditions to meet varying requirements — plug-and-play installation enables immediate use.



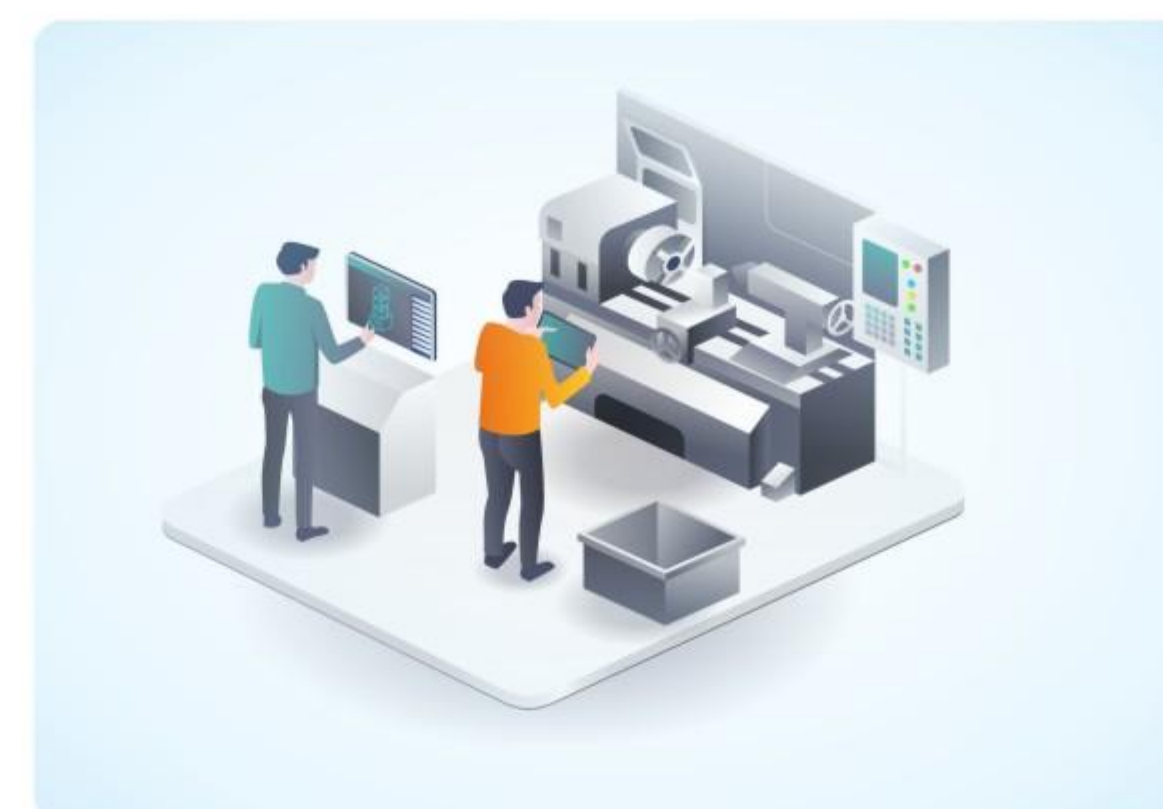
### Easy Installation

Each module can function independently to perform designated water treatment tasks.



### Smart Control

Modular combinations can be customized according to different application scenarios to meet specific pool water treatment needs.



### Factory Prefabrication

Modular design ensures product standardization and uniform quality control.



## Traditional Equipment Rooms vs. Modular Units

Modular Units		Traditional Equipment Rooms	
✓	Factory prefabricated, BIM-designed, fast on-site assembly	⊘	Equipment installed and debugged one by one; long construction period
✓	Customized factory-made piping with minimal material waste	⊘	High waste due to on-site pipe processing
✓	Highly integrated system with intelligent, unmanned operation	⊘	Requires dedicated personnel for maintenance; high O&M costs
✓	Advanced disinfection technology ensures superior water quality and reduced chemical use	⊘	Non-standard systems; disinfection quality not guaranteed
✓	Strict quality control throughout material sourcing, production, and factory testing to ensure smooth on-site commissioning	⊘	On-site installation quality is difficult to guarantee; equipment issues may delay project acceptance

## Technical Parameters

Model		WL-IWT20-ID(Indoor Type)	WL-IWT25-ID(Indoor Type)	WL-IWT40-ID(Indoor Type)
Max. Flow Rate		20m <sup>3</sup> /h	25m <sup>3</sup> /h	40m <sup>3</sup> /h
Applicable Volume	4h	80m <sup>3</sup>	100m <sup>3</sup>	160m <sup>3</sup>
	6h	120m <sup>3</sup>	150m <sup>3</sup>	240m <sup>3</sup>
Configuration	Circulation Pump	2HP	3HP	4HP
	Sand Filter	φ700	φ900	φ1200
Filtration Pipe		2.5" Main Circulation Pipes, Fittings, and Valves	2.5" Main Circulation Pipes, Fittings, and Valves	3" Main Circulation Pipes, Fittings, and Valves
Standard Disinfection		20g Smart Chlorine Generator	20g Smart Chlorine Generator	20g + 30g Smart Chlorine Generator
Optional Disinfection		UV Disinfection	UV Disinfection	UV Disinfection
		AOP Disinfection (External)	AOP Disinfection (External)	AOP Disinfection (External)
Backwashing Method		Automatic	Automatic	Automatic
Operating Voltage		220V/50Hz	220V/50Hz	380V/50Hz
Total Power		1.7kW	2.5kW	3.4kW
Inlet/Outlet and Connection		2.5" Flange Connection	2.5" Flange Connection	3" Flange Connection
Dimension(mm)		1400×1050×1515	1500×1200×1515	1700×1450×1670

## Remarks:

- This equipment adopts a modular design, allowing for single-module use or multi-module combinations.
- Each model is divided into main modules and auxiliary (sub) modules. Main modules can be combined with auxiliary modules of the same specification. Main modules of different specifications cannot be combined with each other.
- The specific combination and configuration of single-module units shall be determined based on the engineering design plan.
- In multi-module setups, the control system is integrated into the main module, and both the main and auxiliary modules are managed through the main module's control system.



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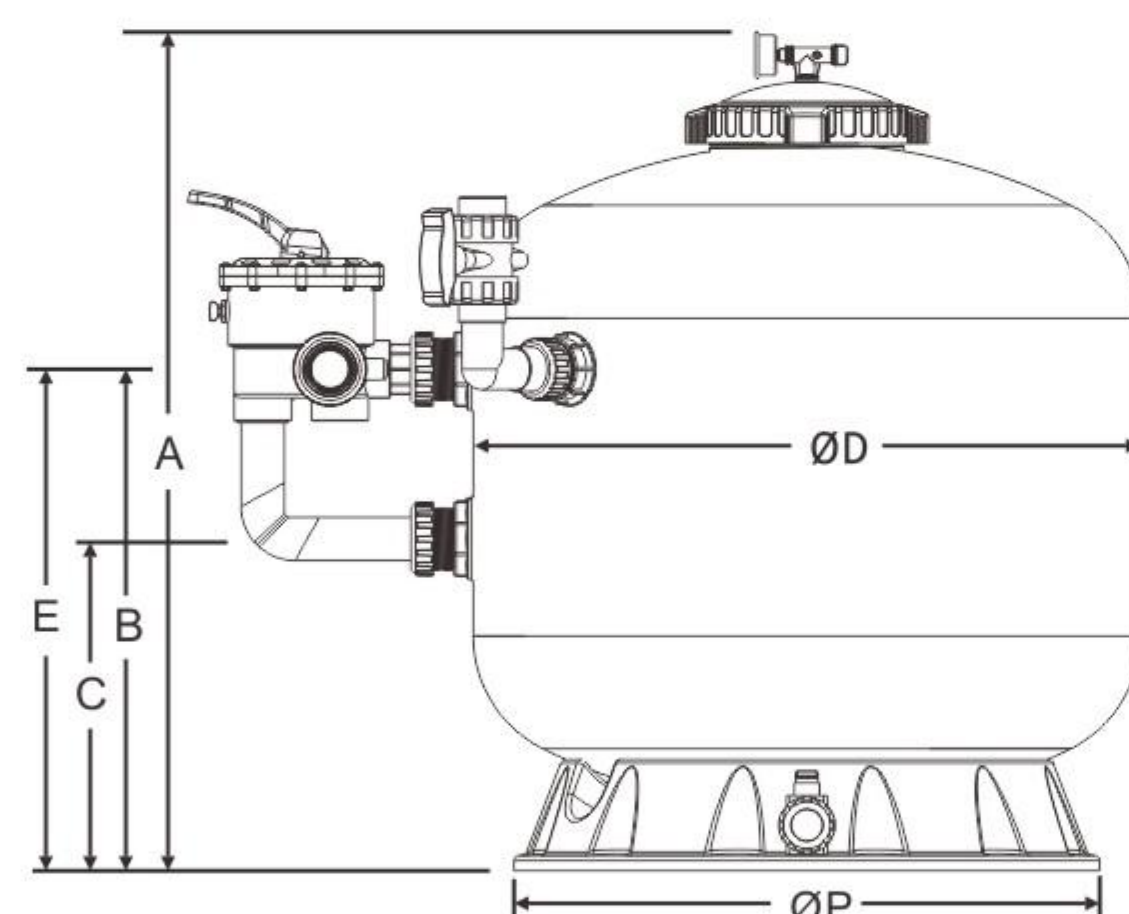
# 11

**LSS & RAS EQUIPMENT**



## BIOLOGICAL FILTER

Bead filter are closed pressure filter containing food grade polyethylene granules or beads. The form and size of the beads create a large surface on which bacteria and suspended solid can attached it. It provides mechanical and biological filtration at a single unit which compete with bobbin wound filter, 6-way multiport valve, pipings, circulation pump, air blower, control box and base. It has been engineered uniquely for pond and aquarium.

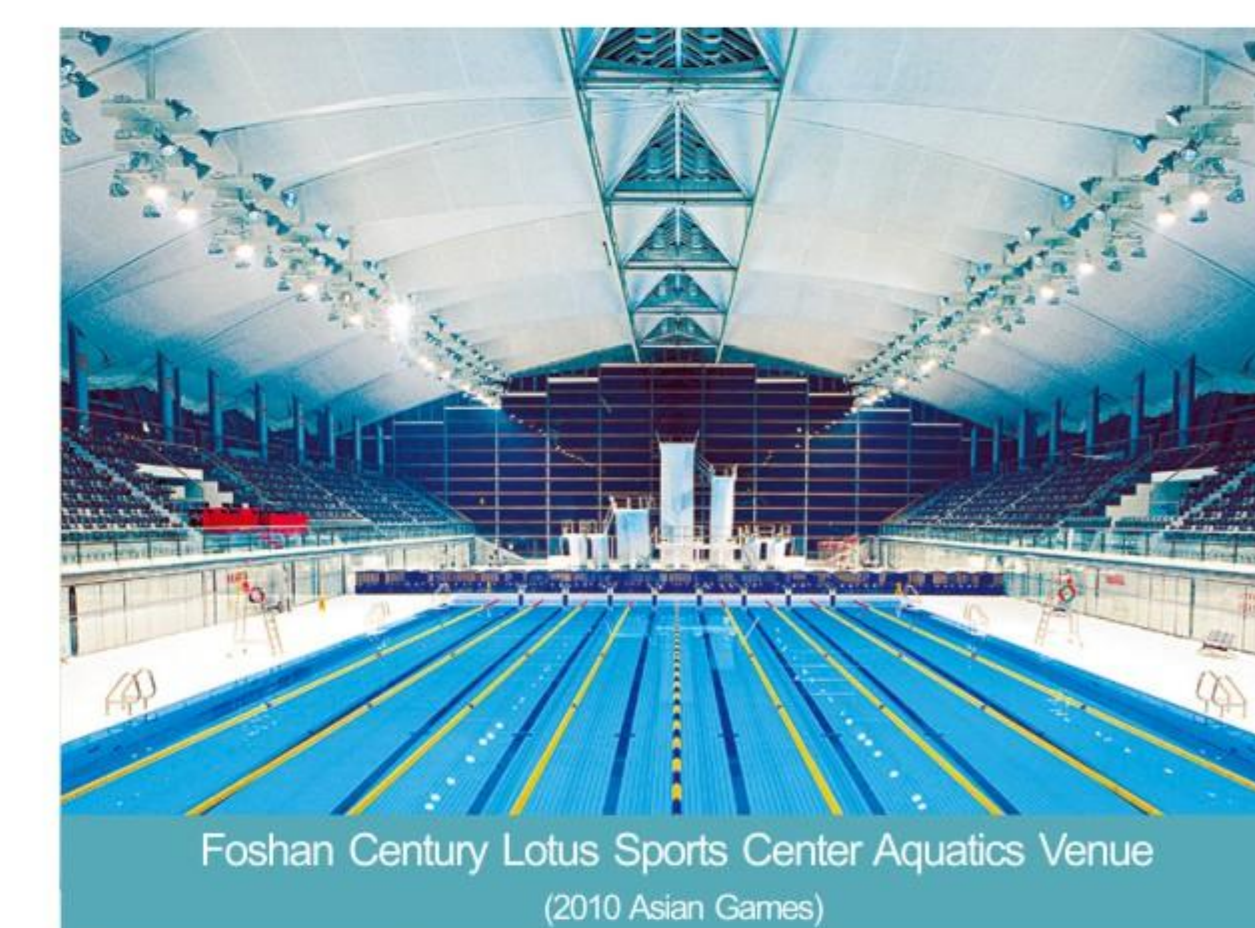
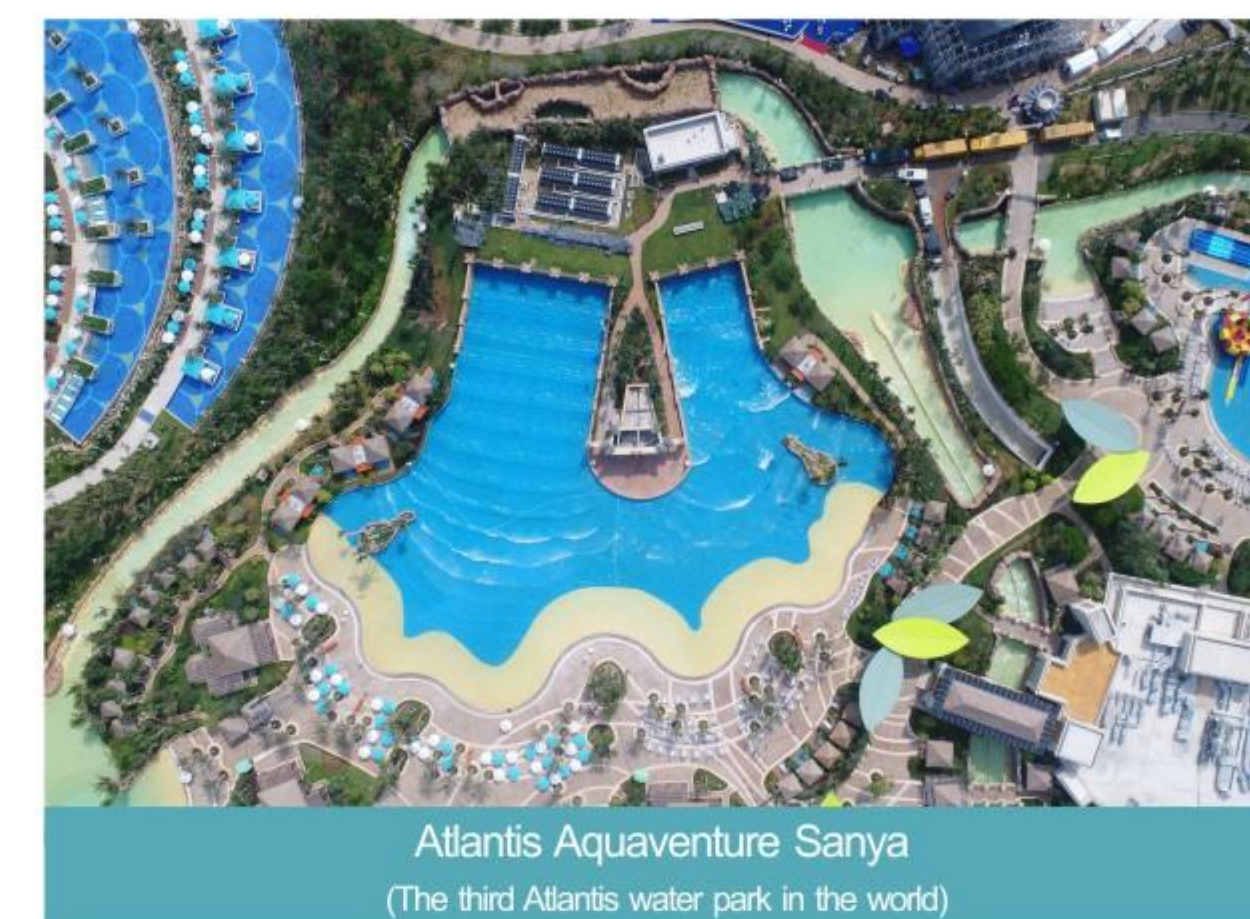


Model	BFG 450	BFG 500	BFG 650	BFG 700	BFG 800	BFG 900	BFG 1200
ΦD (mm)	450	500	630	700	800	900	1200
A (mm)	660	730	790	885	1020	1110	1350
B (mm)	385	405	435	520	605	650	820
C (mm)	260	280	310	300	385	430	600
E (mm)	385	405	435	480	600	650	820
ΦP (mm)	390	390	565	565	790	790	1010

Model	Design Flow		Pond Size (m <sup>3</sup> )	Fish Load (kg)	Blower (watt)	Media (kg)	Filter Diameter (mm)	Filter Height (mm)
	m <sup>3</sup> /h	lpm						
WL-BFG450	8	133	6	20	700	18	450	660
WL-BFG500	11	183	10	35	700	30	500	730
WL-BFG650	16	267	30	78	900	50	650	745
WL-BFG700	19	317	34	94	900	75	700	830
WL-BFG800	25	417	52	124	900	100	800	905
WL-BFG900	30	500	73	172	1000	125	900	1005
WL-BFG1200	42	700	148	310	2*1000	325	1200	1325

## INTERNATIONAL PROJECT CASES

With over 30 years of experience and tens of thousands of successful projects delivered, below are some representative cases showcasing our industry-leading expertise.



In addition, there are many other outstanding cases as shown below:  
Shenzhen Universiade Center Aquatics Venue (2011 Summer Universiade)  
Nanjing Olympic Sports Center Aquatics Venue (2014 Youth Olympic Games)

## INTERNATIONAL PROJECT CASES



### [Fiji National Swimming Center:](#)

With a pool size of 50\*25, this is an overseas renovation project aided by China, where Laswim was responsible for the detailed design, as well as guiding the construction and installation.

### [Ndola Airport Pool in Zambia:](#)

A Chinese company built the airport project, and Laswim was responsible for the design, supply, and online construction guidance of the outdoor pool.

### [Botswana Youth Sports Center Natatorium:](#)

This is an indoor pool with dimensions of 25\*12.5m meters. Laswim was responsible for the design, supply, and on-site construction guidance.

### [Nigeria Natatorium:](#)

With a pool size of 25\*16m, Laswim was responsible for the design, supply, and construction guidance of the water treatment system.

### [Chinese Embassy Swimming Pool in Jamaica:](#)

Laswim was responsible for the design, equipment supply, construction, and installation of this swimming pool.

### [Georgia Natatorium for the Youth Olympic Games:](#)

This is a project contracted by a domestic company in Tbilisi, where Laswim was responsible for the design, equipment supply, and on-site construction guidance and installation.