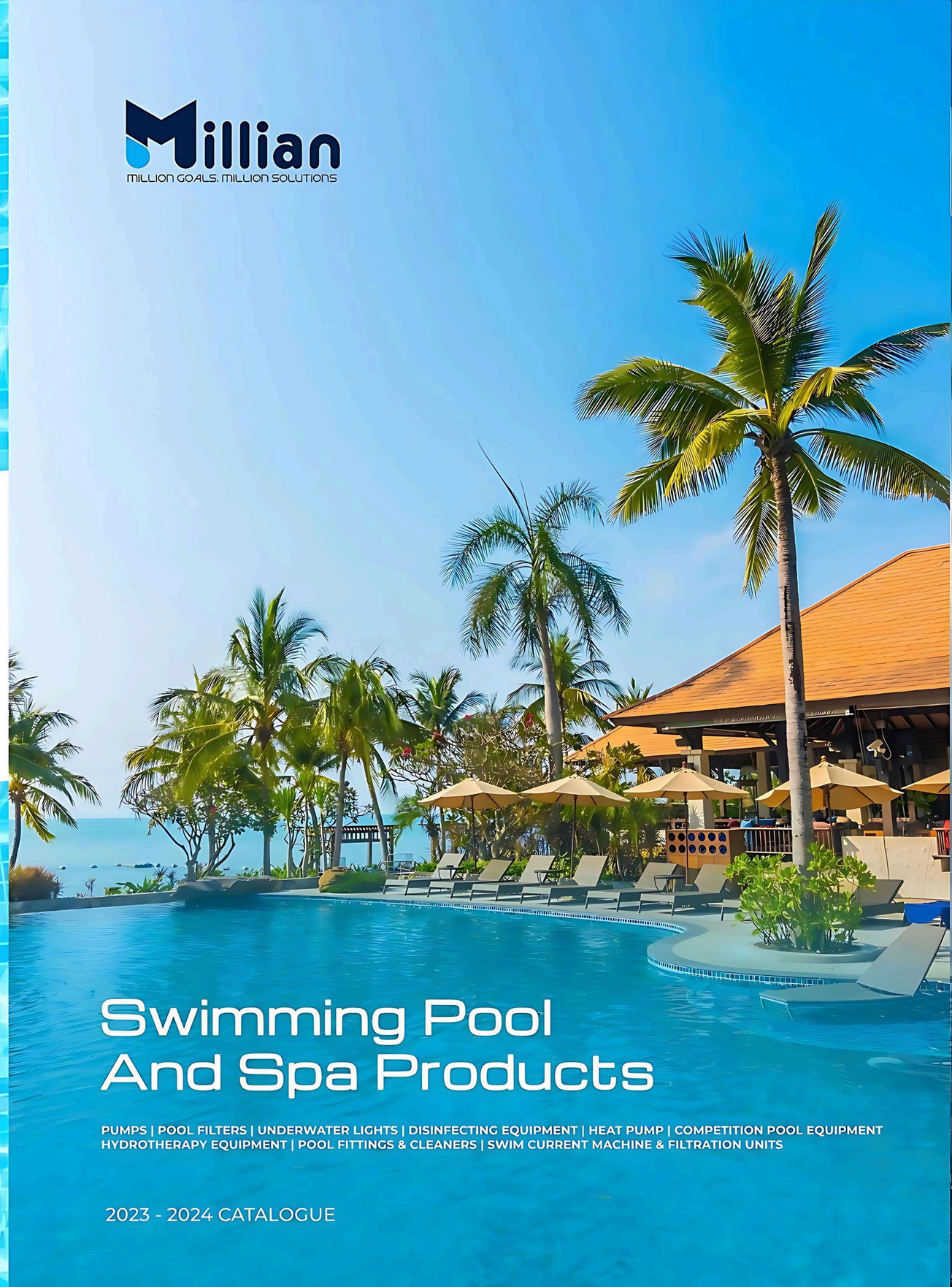
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MILLION GOALS, MILLION SOLUTIONS

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Swimming Pool And Spa Products

PUMPS | POOL FILTERS | UNDERWATER LIGHTS | DISINFECTING EQUIPMENT | HEAT PUMP | COMPETITION POOL EQUIPMENT
HYDROTHERAPY EQUIPMENT | POOL FITTINGS & CLEANERS | SWIM CURRENT MACHINE & FILTRATION UNITS

2023 - 2024 CATALOGUE

Millian
MILLION GOALS. MILLION SOLUTIONS

Company Building



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MILLION GOALS, MILLION SOLUTIONS

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002 Pumps

018 Pool Filters

050 Underwater Lights

082 Disinfecting Equipment

098 Heat Pump

114 Competition Pool Equipment

117 Hydrotherapy Equipment

124 Pool Fittings & Cleaners

139 Swim Current Machine & Filtration Units

Quality Assurance

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TO BE A PROFESSIONAL MANUFACTURER WITH A FULL RANGE OF EQUIPMENT & TECHNICAL SERVICE IN WATER ENVIRONMENT INDUSTRY

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HLVSP SERIES
VARIABLE SPEED PUMP

HLVSP VARIABLE SPEED PUMP

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



Material:

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

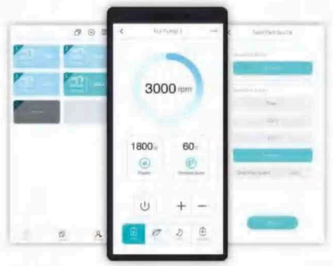


Simple and fast operation

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

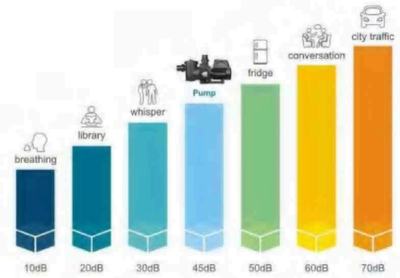
Intelligent

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



Quiet

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



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MILLION GOALS, MILLION SOLUTIONS

Energy saving

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

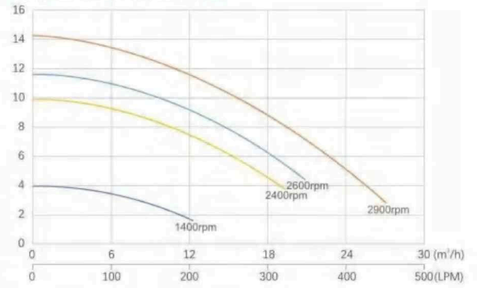


High energy efficiency

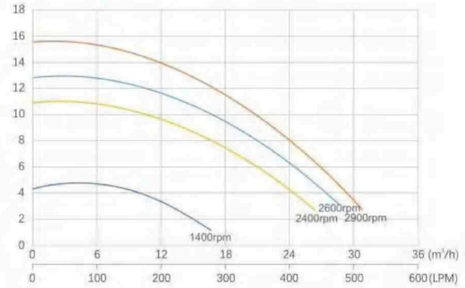
- High efficiency motor IE4.
- Ambient temperature: up to 45℃ (113℉)
- Insulation Class: F
- IP55 waterproof standard.
- Liquid temperature:5~50℃ (41~122℉)
- Maximum working pressure: 3.5bar



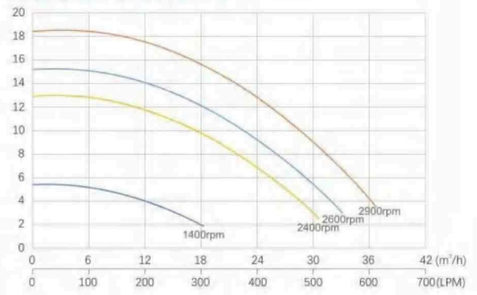
QH.Curve of HLVSP100Q

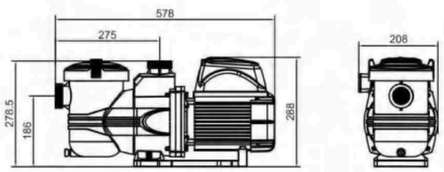


QH.Curve of HLVSP150Q



QH.Curve of HLVSP200Q





Model	Output power (P2)		Rated power supply	Max. current (A)	RPM	Max. Flow (m^3/h)	Max.Head (m)	Circulation Flow		Connection Size	Packing size (mm)
	Horse power (HP)	Rated power (kW)						Flow at 8 m (m^3/h)	Flow at 10 m (m^3/h)		
HLVSP100Q	1	0.75	220V; 50Hz/60Hz	4.1	1000-2900	27	14.5	19	16	2"/63mm	620×280×380
HLVSP150Q	1.5	1.1		6.1		30	16	24	21		
HLVSP200Q	2	1.5		8		33	17	27	24		

BDP SERIES HIGH PERFORMANCE PUMP

BDP series high performance plastic centrifugal pump delivers high flow rates. It's designed for the commercial swimming pool,spa,waterfall and water features to achieve the maximum working efficiency with the lowest noise. Suitable for operation with salt chlorinators and sea water.



High Performance | IE3 Motor | Self-priming Up To 3m

Highlight Features:

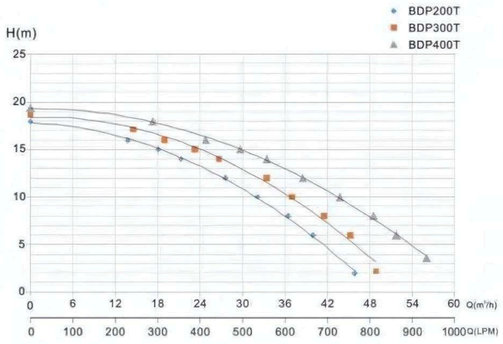
- High efficiency motors IE3.
- IPX5 waterproof standard.
- Asynchronous, two poles.
- Insulation class: F.
- The advanced diffuser and high efficiency turbine maximize water flow and energy efficiency while minimizing turbulence and noise.
- Self-priming up to 3M above water level.
- Built-in thermal protection and overload protection.
- The oversized pre-filter basket(5L) extends the interval between cleanings.
- Liquid Temperature: 5~50℃(41~122℉)
- Ambient Temperature: up to 45℃(113℉)

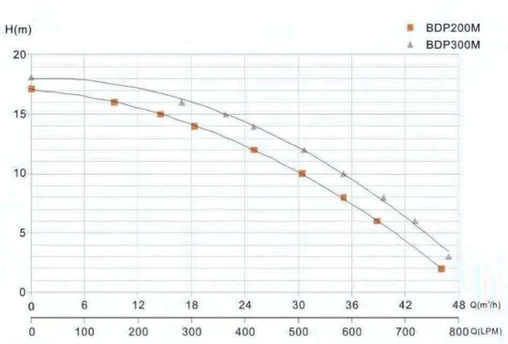
Material:

- Pump Housing: PP+35% GF
- Filter basket: PP
- Shaft: SS316L
- Mechanical Seal: stationary face-SIC, rotating face-Graphite, seal bellows-NBR, Spring-316L
- Impeller: PPO+30% GF
- Diffuser: PPO+30% GF
- Pump base: PP+30% GF



QH.Curve of The Pump

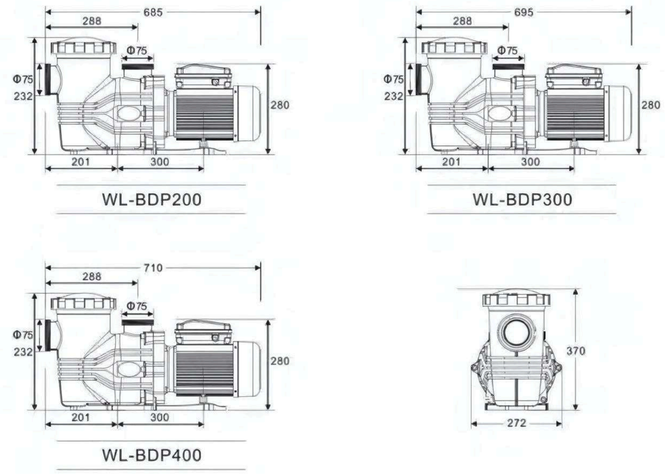




KEY FEATURES:

The advanced diffuser and high efficiency turbine maximize water flow and energy efficiency while minimizing turbulence and noise.





Model	Q-max (m^3/h)	H-max (m)	Horsepower (HP)	Phase	Rated Power (kW)	Voltage (V)	Current (AMP)	Connection Size
WL-BDP200M	42	18	2	1	1.5	220	8.6	2" 63mm
WL-BDP300M	45	18. 5	3	1	2.2	220	10.6	2.5" 75mm
WL-BDP200T	43	18. 5	2	3	1.5	380	3.2	2" 63mm
WL-BDP300T	48	19	3	3	2.2	380	3.8	2.5" 75mm
WL-BDP400T	55	19.5	4	3	2.7	380	4.4	2.5" 75mm

HLLF SERIES PUMP

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

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

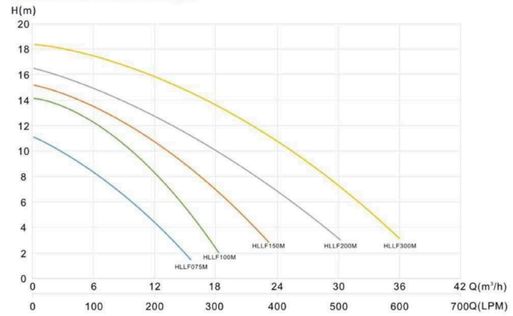


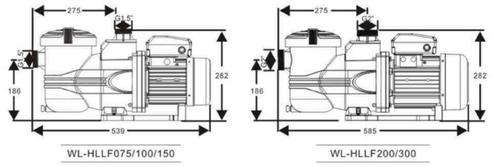
0.75HP-1.5HP



2.0HP-3.0HP

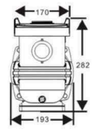
QH.Curve of The Pump:





WL-HLLF075/100/150

WL-HLLF200/300



Model	Q-max (m^3/h)	H-max (m)	Horsepower (HP)	Rated Power (kW)	Phase	Voltage (V)	Connection size
WL-HLLF075M	14.8	11.1	0.75	0.55	1	220	1.5" 50mm
WL-HLLF100M	17.4	14.1	1	0.75	1	220	1.5" 50mm
WL-HLLF150M	22.1	15.1	1.5	1.1	1	220	1.5" 50mm
WL-HLLF200M	30.2	16.4	2	1.5	1	220	2" 63mm
WL-HLLF300M	36	18.2	3	2.2	1	220	2" 63mm
WL-HLLF100T	15.8	13.9	1	0.75	3	380	1.5" 50mm
WL-HLLF150T	22.7	15.2	1.5	1.1	3	380	1.5" 50mm
WL-HLLF200T	33.1	16.9	2	1.5	3	380	2" 63mm
WL-HLLF300T	39.8	18.2	3	2.2	3	380	2" 63mm

ECP SERIES PUMP

ECP series is a new silent and high-performance swimming pool centrifugal pump, suitable for small and medium-sized water application. With the independently innovative hydraulic structure design, ECP series pool pump improves the efficiency and performance, greatly reduces the vibration and operating noise as well.



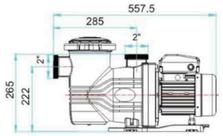
WL-ECP050/075/100



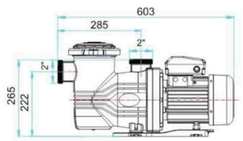
WL-ECP150/200

Highlight features:
- Asynchronous motor.
- The innovative design on impeller and diffuser makes the higher pump performance and reduces the vibration and noise.
- Protection standard: IP55.
- Insulation class: F.
- Self-priming up to 3m.
- Noise: ⩽62dB.
- Built-in thermal protection and overload protection (for single phase pump).
- Standard port size: 2", 1.5" is optional.
- Motor: 2900r.p.m
- Liquid temperature: 5-50℃(41~122℉).
- Ambient temperature: 5-50℃(41~122℉).
- Maximum working pressure: 0.35MPa





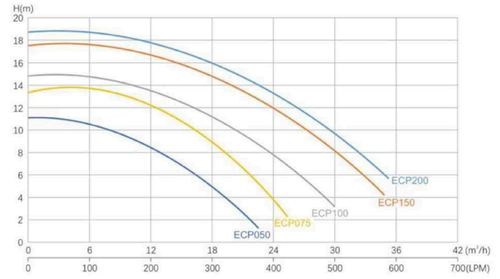
WL-ECP050/075/100



WL-ECP150/200

Material:
- Pump housing: PP+35%GF
- Seal plate: PP+35%GF
- Diffusor: PPO+30%GF
- Impeller: PPO+30%GF+ Copper core
- Motor shaft: SS304
- Filter basket: PP
- Pump base: PP+35%GF
- Mechanical seal: stationary face-SIC, rotating face-Graphite, seal bellows-NBR, Spring-316L.

QH.Curve of The Pump:



Model	Q-max (m^3/h)	H-max (m)	Circulation Flow		Output HP (HP)	Input rated power (kW)	Voltage (V)	Phase	Connection Size	Noise (dB)
			Flow at 8 m (m^3/h)	Flow at 10 m (m^3/h)						
ECP050M	22	11.5	13	8	0.5	0.6	220	1	2" 63mm	52.1
ECP075M	24	14	19.5	16.5	0.75	0.8	220	1	2" 63mm	54.4
ECP100M	30	15	23.5	21.5	1	1.1	220	1	2" 63mm	56.9
ECP150M	35	18	30	27	1.5	1.6	220	1	2" 63mm	59.6
ECP200M	36	19	32.5	29.5	2	1.9	220	1	2" 63mm	61
ECP075T	24	14	19.5	16.5	0.75	0.8	380	3	2" 63mm	54.4
ECP100T	30	15	23.5	21.5	1	1.1	380	3	2" 63mm	56.9
ECP150T	35	18	30	27	1.5	1.6	380	3	2" 63mm	59.6
ECP200T	36	19	32.5	29.5	2	1.9	380	3	2" 63mm	61

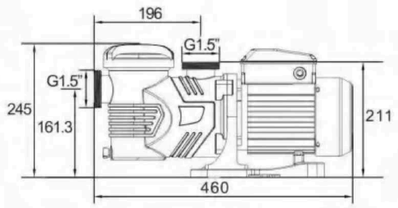
ESP SERIES PUMP

MILLIAN series pump is a circulation pump for pools with high reliability and performance, which makes the pump more recognized in the market. Mechanical seal adopts ceramic carbon material, which is resistant to high temperature and dry grinding. With 25,000 strict life-span tests and powerful impact tests, this pump is highly recommended for its great performance and reliable quality.

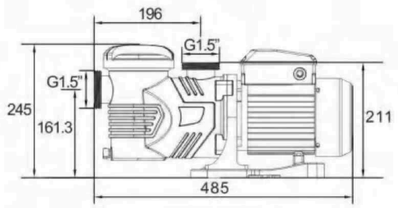


Features:

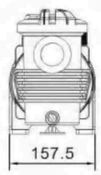
- The inlet or outlet of the pump with an external thread, which can connect with metric or imperial pipes.
- Low noise: It can lower than 67 dB.
- Thermal protection included
- Liquid Temperature: 5～ 50 ℃ (41 ～ 122 ℉).
- Ambient Temperature: up to 40℃ (104℉).
- IPX5 Waterproof standard.
- The pump can bear 25000 times of impact test, excellent performance and reliable quality.
- Single phase:220V/50Hz
  220V/60Hz is available on request



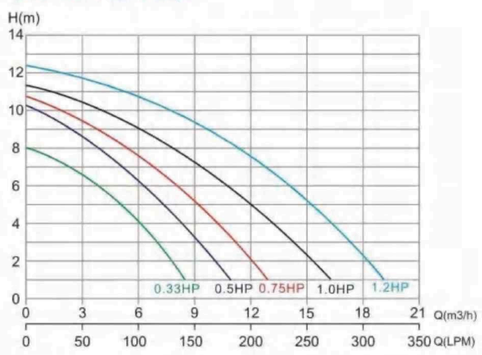
WL-ESP033/050



WL-ESP075/100/120



QH.Curve of The Pump:



Model	Q-max (m^3/h)	H-max (m)	Horsepower (HP)	Rated Power (kW)	Phase	Voltage (V)	Connection size
WL-ESP033M	9	8	0.33	0.26	1	220	1.5" 50mm
WL-ESP050M	11	10.5	0.5	0.37	1	220	1.5" 50mm
WL-ESP075M	13	11	0.75	0.55	1	220	1.5" 50mm
WL-ESP100M	16.5	11.5	1.0	0.75	1	220	1.5" 50mm
WL-ESP120M	19	12.5	1.2	0.9	1	220	1.5" 50mm

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BHP/BHP-E SERIES PUMP



BHP/BHP-E heavy-duty pumps deliver high flow and high performance. It's designed for commercial swimming pools. Unique large diffuser and maximum performance impeller with high-performance motor maximize energy efficiency.

Material:

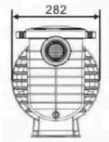
- Pump Housing: PP+35%GF
- Filter Basket: PP
- Shaft: SS304
  SS316 (For seawater pump BHP-E series)
- Bearing: NSK
- Mechanical seal:
  Carbon+Resin-Ceramics (Carbon, Ceramics,SS304,EPDM)
  SS316+EPDM(Sealsbellows)+SIC+Graphite
  (For seawater pump BHP-Eseries)
- Impeller: Noryl+30%GF
- Diffuser: Noryl+30%GF
- Pump Base: PP+35%GF

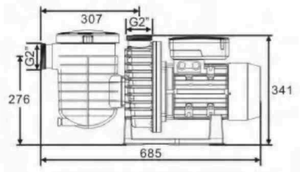
Features:

- The inlet or outlet port can connect with metric or imperial pipes.
- The pump has excellent performance and reliable quality, which can bear 25000 times of impact test.
- Liquid Temperature: 5～ 50 ℃ (41 ～ 122 ℉).
- Ambient Temperature: up to 45℃ (113℉).
- Maximum working pressure: 2.5 bar.
- IPX5 waterproof standard
- Class I protection against electric shock.
- Thermal protection included.
- The motor is painted fluoride-resistant acid corrosion protective coating,resists chemical and marine corrosion. (for BHP-E series pump)
- Motor: 3000r.p.m.
- 50Hz or 60Hz is available for different necessities.

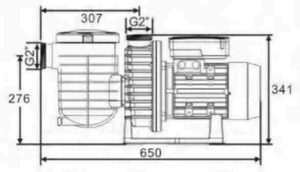
QH.Curve of The Pump







WL-BHP400



WL-BHP200/300

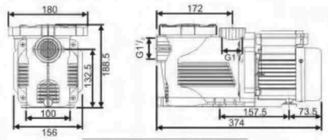
Model	Q-max (m^3/h)	H-max (m)	Horsepower (HP)	Rated Power (kW)	Phase	Voltage (V)	Connection size
WL-BHP200M WL-BHP-E200M	38	20	2.0	1.5	1	220	2" 63mm
WL-BHP300M WL-BHP-E300M	42	21	3.0	2.2	1	220	2" 63mm
WL-BHP200T WL-BHP-E200T	38	20	2.0	1.5	3	380	2" 63mm
WL-BHP300T WL-BHP-E300T	42	21	3.0	2.2	3	380	2" 63mm
WL-BHP400T WL-BHP-E400T	45	22	4.0	3.0	3	380	2" 63mm

KP SERIES PUMP

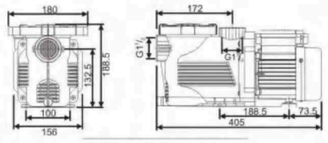
WL-KP series are used for water circulation in all kinds of small domestic swimming pools. Slightly dirty water with solids in suspension can be perfectly filtered.

Features:

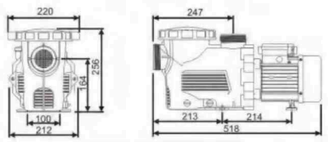
- Liquid Temperature: 5～ 50 ℃ (41 ～ 122 ℉).
- Ambient Temperature: up to 40 ℃ (104 ℉).
- Maximum working pressure: 3.0 bar.
- IPX5 waterproof standard.
- Insulation Class: F.
- Thermal protection included.
- Single phase: 220V/50Hz.
- 220V/60Hz, 110V/60Hz; 380V/50Hz(P≥450W) are available on request.
- Max.Suction:3M(P≥600W)



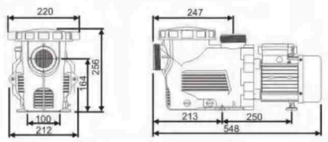
WL-KP256~WL-KP456



WL-KP556~WL-KP856



WL-KP1106



WL-KP1606~WL-KP2206

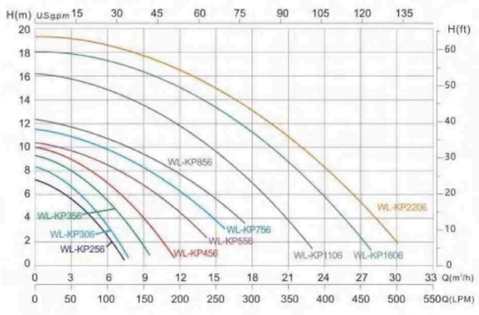


WL-KP256~WL-KP856



WL-KP1106~WL-KP2206

QH.Curve of The Pump



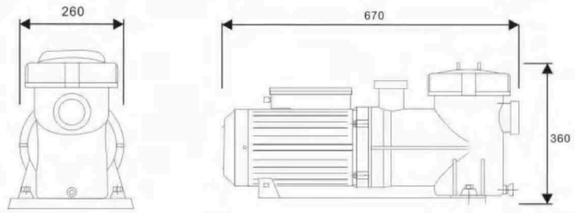
Model	Q-max (m^3/h)	H-max (m)	Horsepower (HP)	Rated Power (kW)	Phase	Voltage (V)	Connection Size
WL-KP256	7.5	7	0.33	0.25	1	220	1.5" or 50mm
WL-KP306	7.5	8.5	0.4	0.3	1	220	1.5" or 50mm
WL-KP356	9.6	9.5	0.5	0.35	1	220	1.5" or 50mm
WL-KP456	11.1	10	0.6	0.45	1	220	1.5" or 50mm
WL-KP556	14.1	12	0.75	0.55	1	220	1.5" or 50mm
WL-KP756	15.6	12.5	1.0	0.75	1	220	1.5" or 50mm
WL-KP856	16.5	12.5	1.2	0.85	1	220	1.5" or 50mm
WL-KP1106	22.5	16	1.5	1.10	1	220	48.5mm & 50mm or 60.3mm & 63mm
WL-KP1606	27.9	18	2.0	1.60	1	220	48.5mm & 50mm or 60.3mm & 63mm
WL-KP2206	30.9	19.5	3.0	2.20	1	220	48.5mm & 50mm or 60.3mm & 63mm



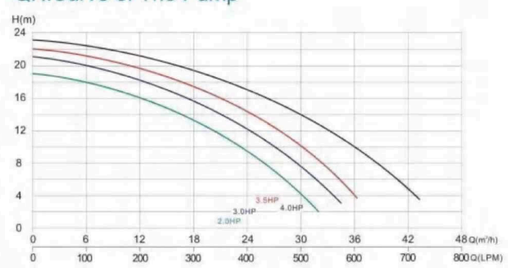
HEP SERIES PUMP

Features:

- Anti-rust crust can stop water penetrating the engine. Enough power, high head, big flux and high efficient circulation.
- Lower noise and run quietly. The pump cover bears high airtight preventing the leaking.
- The main part of the pump is made of special plastic which is durable in extreme low or high temperature.
- Single phase:220/50Hz
  Three-phase:380V/50Hz



QH.Curve of The Pump



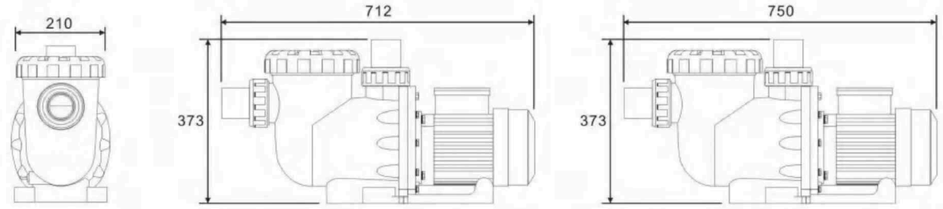
Model	Q-max (m^3/h)	H-max (m)	Horsepower (HP)	Rated Power (kW)	Phase	Voltage (V)	Connection size
WL-HEP020M	29	15.1	2.0	1.5	1	220	2" 63mm
WL-HEP030M	31	19	3.0	2.2	1	220	2" 63mm
WL-HEP020T	29	15.1	2.0	1.5	3	380	2" 63mm
WL-HEP030T	31	19	3.0	2.2	3	380	2" 63mm
WL-HEP035T	32	19.4	3.5	2.6	3	380	2" 63mm
WL-HEP040T	35	19.7	4.0	3.0	3	380	2" 63mm

CEP SERIES PUMP

Features:

- Anit-rust crust can keep water from the engine.
- Enough power, high head, big flux and high efficient circulation.
- Lower noise and run quietly.
- The pump cover bears high airtight preventing the leaking.
- The main part of the pump is made of special plastic which is durable in extreme low or high temperature.
- Three-phase:380V/50Hz
  380V/60Hz model is available on request.

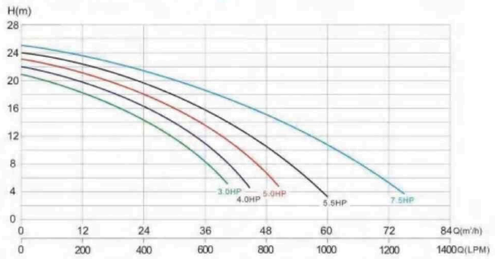




WL-CEP030T~WL-CEP040T

WL-CEP050T~WL-CEP075T

QH.Curve of The Pump



Model	Q-max (m^3/h)	H-max (m)	Horsepower (HP)	Rated Power (kW)	Phase	Voltage (V)	Inlet Port	Outlet Port
WL-CEP030T	35.2	17.5	3.0	2.5	3	380	2" 63mm	2" 63mm
WL-CEP040T	39.6	18.3	4.0	3.0	3	380	2" or 75mm	2" 63mm
WL-CEP050T	56	20.4	5.0	3.8	3	380	2" or 75mm	2" 63mm
WL-CEP055T	62	21.9	5.5	4.0	3	380	75mm	75mm
WL-CEP075T	66	22.5	7.5	5.5	3	380	75mm	75mm



0.35HP-1.2HP



1.5HP-3.0HP

STP SERIES PUMP

Features:

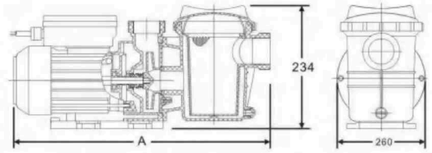
- Motor and water are completely seperated.
- Total electrical separation.
- Pump housing, pump cover & impeller are made of high reinforced plastic.
- Quick record could be used with the inlet & outlet.

Operation conditions:

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

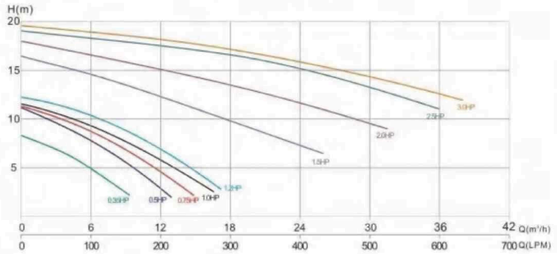
Applications:

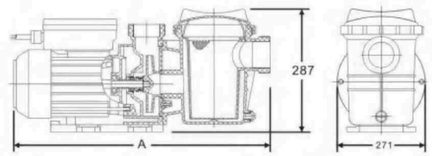
Jet pump for jetted bath tubs, spa pools, swimming pools, massage stations and cleaning system.



WL-STP35~WL-STP120

QH.Curve of The Pump





WL-STP150~WL-STP300

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

FCP SERIES PUMP

Features:

- Anti-rust crust can stop water penetrating the engine.
- Enough power, high head, big flux 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.

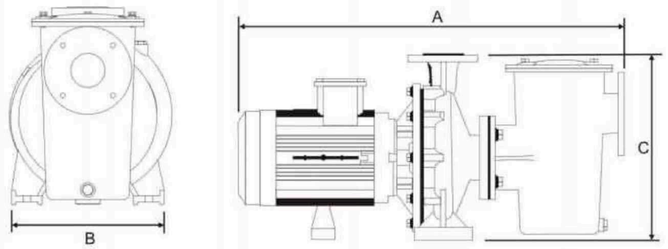


Materials:

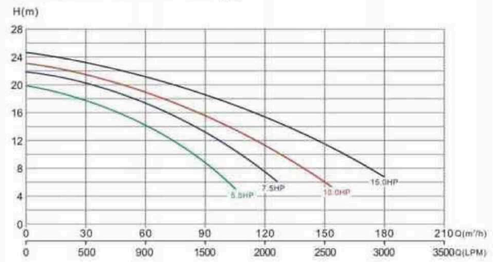
- Pump housing: Cast iron
- Pre-filter basket: Stainless steel AISI304
- Shaft: Stainless steel AISI304
- Impeller: Stainless steel AISI304

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

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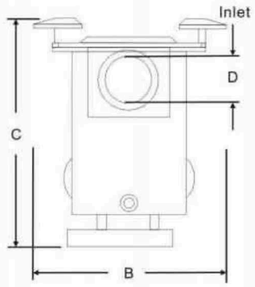
ATB SERIES PUMP

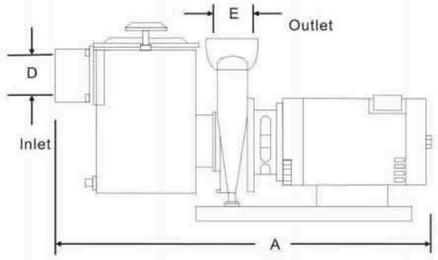
Brass pumps are designed for maximum performance and economy in swimming filtration system. Besides they are extremely quiet in operation.



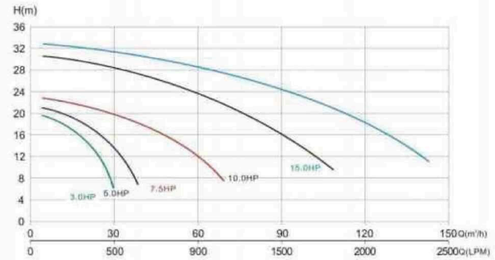
Features:

- Durable brass construction.
- High performance motors for maximum flow.
- Self-priming to insure proper filtration.
- Stainless steel mechanical seal.
- Closed impeller for longer motor bearing life.
- Heat-resistant seal.





QH.Curve of The Pump



Model	Horsepower (HP)	Rated Power (kW)	Phase	Voltage (V)	Inlet/Outlet	A Length (mm)	B Width (mm)	C Height (mm)
WL-ATB030	3.0	2.25	3	380	2"/2"	660	200	200
WL-ATB050	5.0	3.8	3	380	3"/2.5"	720	230	400
WL-ATB075	7.5	5.5	3	380	3"/2.5"	720	266	400
WL-ATB100	10.0	7.5	3	380	4"/3"	1060	340	570
WL-ATB150	15.0	11.0	3	380	4"/4"	1090	340	570

AIR BLOWER

Features:

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

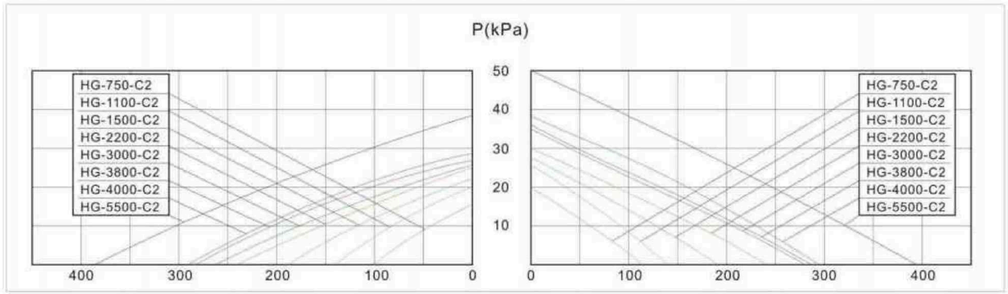


CE

Application:

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

QH.Curve of The Pump



Model	Voltage (V)	Power (W)	Max.Pressure (Kpa)	Vacuum (Kpa)	Output (m^3/h)	Pressure (KPa)	Weight (KGS)	Dimensions L*W*H(mm)
HG-750-C2	220	750	20	-16	110	<12	14	306*288*315
HG-1100-C2	220	1100	26	-20	135	<18	19	329*320*390
HG-1500-C2	380	1500	28	-22	180	<18	25	338*328*357
HG-2200-C2	380	2200	30	-24	240	<20	28	392*362*372
HG-3000-C2	380	3000	35	-25	260	<25	36	425*384*400
HG-3800-C2	380	3800	36	-26	280	<26	38	410*392*404
HG-4000-C2	380	4000	38	-28	280	<28	45	415*392*404
HG-5500-C2	380	5500	50	-35	380	<28	58	486*418*453

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POOL FILTERS



SUPER SERIES
SAND FILTER

SUPER SERIES SAND FILTER

POOL FILTERS

Made of high density polyethylene material and integration of blow molding technology. HDPE filter tank is compatible for many different weather condition.Unique structural design gets the best clarity of filtered water and a better backwash.



SDG-17~SDG-26



SCG-20~SCG-26

Advantages:

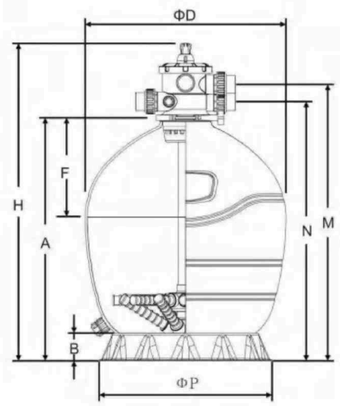
- More efficient: 30% more of filtration bed improves the filtration quality easily.
- Environmental, safe & corrosive-proof material: suitable to all types of swimming pools.
- Easy maintenance: no tools is required for maintenance or operation.

Features:

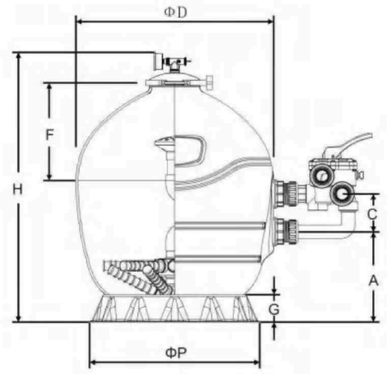
- Suitable for pools with different disinfection system such as salt chlorine generator, UV sterilizer, Ozone system and chemical dosing.
- Can be used for Pool, Spa and Water features.
- Easy to maintain and replace.

- Pool in need of better water clarit.
- Professional approach of getting better water.





	SDG-17	SDG-20	SDG-24	SDG-26
ΦD(mm)	425	500	600	650
H(mm)	767	890	983	1028
B(mm)	75	75	75	90
A(mm)	526	650	743	787
ΦP(mm)	390	390	390	560
N(mm)	579	702	795	839
M(mm)	635	758	850	895
F(mm)	195	236	285	319



	SCG-20	SCG-24	SCG-26
ΦD(mm)	500	600	650
H(mm)	736	830	887
A(mm)	241	310	296
ΦP(mm)	390	390	560
C(mm)	125	125	125
G(mm)	75	75	90
F(mm)	236	285	319

Product parameters

Model	Pipe Size		Filter Area (m^2)	Design Flow		0.5-0.8mm Sand Weight (kg)	Tank Volume (m^3)	Valve Volume (m^3)	Tank Weight (kg)	Valve Weight (kg)
	inches	mm		m^3/h	lpm					
SDG-17	1.5	50	0.14	7.0	117	50	0.11	0.02	9.8	3
SDG-20	1.5	50	0.19	9.5	158	90	0.16	0.02	12.3	3
SDG-24	1.5	50	0.27	13.5	225	140	0.26	0.02	15.2	3
SDG-26	1.5	50	0.32	16.0	267	170	0.34	0.02	18	3

Note: The model SDG-17 is with one layer lateral.

Model	Pipe Size		Filter Area (m^2)	Design Flow		0.5-0.8mm Sand Weight (kg)	Tank Volume (m^3)	Valve Volume (m^3)	Tank Weight (kg)	Valve Weight (kg)
	inches	mm		m^3/h	lpm					
SCG-20	1.5	50	0.19	9.5	158	90	0.16	0.02	13.3	3
SCG-24	1.5	50	0.27	13.5	225	140	0.26	0.02	16.2	3
SCG-26	1.5	50	0.32	16.0	267	170	0.34	0.02	19	3

MAXIMUM WORKING PRESSURE:40psi/2.8kg/cm^2

MAXIMUM TEMPERATURE≤50 °C

"P-DG" SERIES FILTERS

POOL FILTERS

Features:

- Made of high density polyethylene material, corrosive-proof, safe and environmental.
- Unitized thermal plastic filter tank tough, durable and suitable for many different weather condition.
- Easy-to-use multiport valve lets you select any of the valve/filter operation with a simple lever-action.
- Clamp lock is designed to allow 360 degree rotation to simplify installation.
- Compact and save space.
- These sand filters are applicable in all types of pool, spa, fountain, waterscape and aquarium.





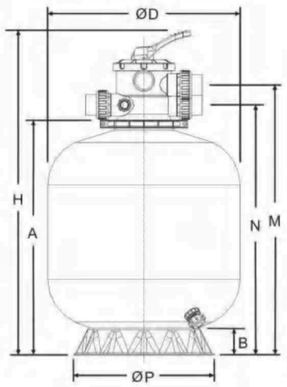
Standard: plastic clamp



Optional: stainless steel clamp

Main parts:

- Easy-to-use six-position valve makes the selection of the valve/filter simple.
  - * 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 circulation water to pool).
  - * CLOSE.
- Unitized and durable tank.
- Special drainage design, easy to drain, maintain and ice-free in winter.



ϕD(mm)	350	410	450	535	635	710
H(mm)	750	770	830	870	970	1040
B(mm)	75	75	75	75	95	95
A(mm)	490	510	570	610	710	780
ϕP(mm)	319	319	390	390	565	565
N(mm)	545	565	625	665	765	835
M(mm)	600	620	680	720	820	890

Model	Pipe Size		Filter Area (m^2)	Design Flow		0.5-0.8mm Sand Weight (kg)	Tank Volume (m^3)	Valve Volume (m^3)	Tank Weight (kg)	Valve Weight (kg)
	inches	mm		m^3/h	lpm					
P-DG350	1.5	50	0.10	4.50	75	25	0.06	0.02	4.0	3
P-DG400	1.5	50	0.13	6.50	108	34	0.09	0.02	5.0	3
P-DG450	1.5	50	0.16	8.00	133	50	0.15	0.02	6.5	3
P-DG500	1.5	50	0.23	11.50	192	80	0.20	0.02	9.2	3
P-DG650	1.5	50	0.32	16.00	267	160	0.32	0.02	12.1	3
P-DG700	1.5	50	0.40	20.00	333	220	0.42	0.02	17.0	3

MAXIMUM WORKING PRESSURE: 36psi/2.5kg/cm^2(PLASTIC CLAMP) MAXIMUM WORKING WATER TEMPERATURE≤50℃

"P-CG" SERIES FILTERS

POOL FILTERS

Features:

- Made of high density polyethylene material, corrosive-proof, safe and environmental.
- Unitized thermal plastic filter tank, tough, durable and suitable for many different weather condition.
- East-to-use multiport valve lets you select any of the valve/filter operation with a simple lever-action.
- Compact and save space.
- Top diffuser ensures even distribution of water over the top of the sand bed.
- These sand filters are applicable in all types of pool, spa, fountain waterscape and aquarium.





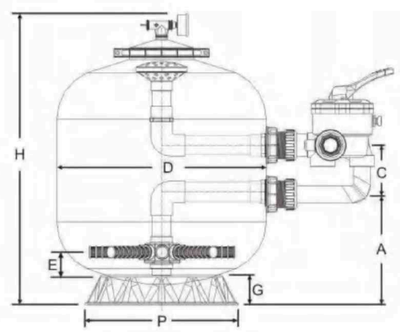
Standard: plastic clamp



Optional: stainless steel clamp

Main parts:

- Easy-to-use six-position valve makes the selection of the valve/filter simple.
  - * 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).
  - * RECIRCULATION (By-passes filter for circulation water to pool).
  - * CLOSE.
- Unitized and durable tank.
- Special drainage design, easy to drain, maintain and ice-free in winter.
- Pressure gauge makes it easier to examine and maintain.
- Air relief bolt enables easy release of trapped air during operation of the filter.



ϕD(mm)	450	535	635	710
H(mm)	670	710	810	880
A(mm)	260	290	310	360
ϕP(mm)	390	390	565	565
C(mm)	125	125	125	125
G(mm)	75	75	95	90
E(mm)	90	90	90	95

Model	Pipe Size		Filter Area (m^2)	Design Flow		0.5-0.8mm Sand Weight (kg)	Tank Volume (m^3)	Valve Volume (m^3)	Tank Weight (kg)	Valve Weight (kg)
	inches	mm		m^3/h	lpm					
P-CG450	1.5	50	0.16	8.00	133	50	0.15	0.02	7.0	3
P-CG500	1.5	50	0.23	11.50	192	80	0.20	0.02	10.2	3
P-CG650	1.5	50	0.32	16.00	267	160	0.32	0.02	13.1	3
P-CG700	1.5	50	0.40	20.00	333	220	0.42	0.02	18.0	3

MAXIMUM WORKING PRESSURE: 36psi/2.5kg/cm^2(PLASTIC CLAMP) MAXIMUM OPERATING WATER TEMPERATURE≤50℃

"WL-ADG" SERIES FILTERS

POOL 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 moded 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 .

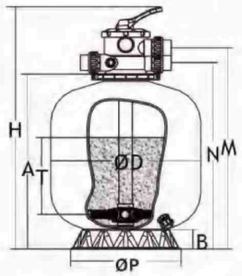


Standard: plastic clamp



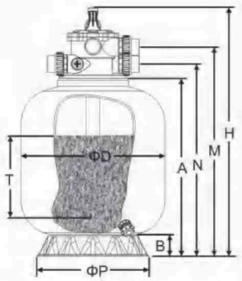
Optional: stainless steel clamp
maximum working pressure:50psi





WL-ADG350~WL-ADG700





WL-ADG800~WL-ADG1400

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^2)	Design Flow		0.5-0.8mm Sand Weight (kg)	Tank Volume (m^3)	Valve Volume (m^3)	Tank Diameter (mm)	Tank Height (mm)
	inches	mm		m^3/h	Ipm					
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^2 MAXIMUM OPERATING WATER TEMPERATURE≤50°C MAXIMUM TESTING PRESSURE:58psi/4.0kg/cm^2
OPTIONAL: MAXIMUM WORKING PRESSURE: 58psi/4.0kg/cm^2(WL-ADG800-1400) MAXIMUM OPERATING WATER TEMPERATURE≤50°C MAXIMUM TESTING PRESSURE:86psi/6.0kg/cm^2

"WL-BCG" SERIES FILTERS

POOL 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.



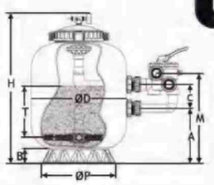
Standard: plastic clamp



Optional: stainless steel clamp
maximum working pressure:50psi

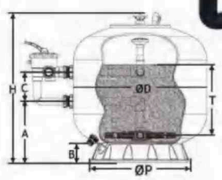


WL-BCG450~WL-BCG700





WL-BCG800~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^2)	Design Flow		0.5-0.8mm Sand Weight (kg)	Tank Volume (m^3)	Valve Volume (m^3)	Tank Diameter (mm)	Tank Height (mm)
	inches	mm		m^3/h	Ipm					
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^2 MAXIMUM OPERATING WATER TEMPERATURE≤50°C MAXIMUM TESTING PRESSURE:58psi/4.0kg/cm^2
OPTIONAL: MAXIMUM WORKING PRESSURE: 58psi/4.0kg/cm^2(WL-BCG800-1400) MAXIMUM OPERATING WATER TEMPERATURE≤50°C MAXIMUM TESTING PRESSURE:86psi/6.0kg/cm^2

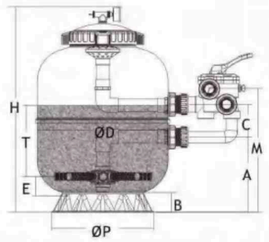
LAMINATED SAND FILTERS

POOL FILTERS

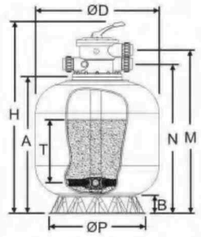
- Made of fibreglass reinforce laminated polyester.
- Smooth and high brightness appearance.
- 6-way multiport valve.
- Sight glass for inspection of filtered water.
- Easy maintenance, easy cleaning.
- Maximum Working Pressure:36psi/2.5kg/cm2.
- Maximum temperature:50℃.



WL-ICG450~WL-ICG900



WL-ICG450~WL-ICG900



WL-IDG400~WL-IDG900



WL-IDG400~WL-IDG900

Model	WL-ICG450	WL-ICG500	WL-ICG650	WL-ICG700	WL-ICG800	WL-ICG900
ΦD(mm)	450	500	635	700	800	900
H(mm)	660	745	805	885	1000	1115
A(mm)	260	280	310	360	385	430
B(mm)	75	75	95	95	150	150
C(mm)	125	125	125	125	220	220
M(mm)	444	464	494	534	680	725
ΦP(mm)	390	390	565	565	790	790
T(mm)	250	280	300	350	420	480

Model	WL-IDG400	WL-IDG450	WL-IDG500	WL-IDG650	WL-IDG700	WL-IDG800	WL-IDG900
ΦD(mm)	400	450	500	635	700	800	900
H(mm)	750	815	870	875	980	1145	1270
A(mm)	500	565	610	625	725	845	970
B(mm)	73	75	75	95	95	150	150
M(mm)	609	674	719	734	835	988	1113
N(mm)	550	615	660	676	776	908	1032
ΦP(mm)	390	390	390	565	565	790	790
T(mm)	160	220	260	300	400	500	550

Model	Pipe Size		Filter Area (m^2)	Design Flow		Sand Weight (kg)	Filter Diameter (mm)	Filter Height (mm)
	inches	mm		m^3/h	lpm			
WL-ICG450	1.5	50	0.16	8.0	133	45	450	660
WL-ICG500	1.5	50	0.20	10.0	166	80	500	745
WL-ICG650	1.5	50	0.32	15.0	250	130	635	805
WL-ICG700	1.5	50	0.38	19.0	317	190	700	885
WL-ICG750	2.0	63	0.44	22.0	367	230	750	1000
WL-ICG800	2.0	63	0.50	25.0	417	260	800	1000
WL-ICG900	2.0	63	0.64	32.0	533	400	900	1115

Model	Pipe Size		Filter Area (m^2)	Design Flow		Sand Weight (kg)	Filter Diameter (mm)	Filter Height (mm)
	inches	mm		m^3/h	lpm			
WL-IDG400	1.5	50	0.13	6.0	100	30	400	750
WL-IDG450	1.5	50	0.16	8.0	133	45	450	815
WL-IDG500	1.5	50	0.20	10.0	166	80	500	860
WL-IDG650	1.5	50	0.32	15.0	250	130	635	875
WL-IDG700	1.5	50	0.38	19.0	317	190	700	1000
WL-IDG800	2.0	63	0.50	25.0	417	300	800	1145
WL-IDG900	2.0	63	0.64	32.0	533	450	900	1270

STANDARD: MAXIMUM WORKING PRESSURE: 36psi/2.5kg/cm^2 MAXIMUM OPERATING WATER TEMPERATURE≤50℃ MAXIMUM TESTING PRESSURE:58psi/4.0kg/cm^2
OPTIONAL: MAXIMUM WORKING PRESSURE: 58psi/4.0kg/cm^2 MAXIMUM OPERATING WATER TEMPERATURE:≤50℃ MAXIMUM TESTING PRESSURE:86psi/6.0kg/cm^2

CARTRIDGE FILTER

POOL FILTERS



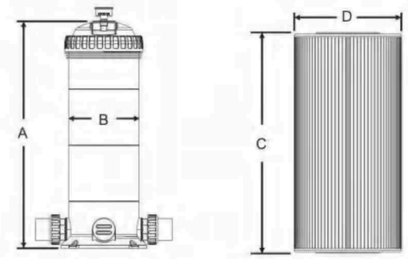
Features:

- Compact and light weight.
- UV resistant tank.
- Heavy duty ring-lock lid allows easy cleaning and replacement of the cartridge element.
- Screw type air bleeder for easy removal of trapped air inside the filter tank.
- High quality oil filled pressure gauge for easy inspection of the operation pressure.
- Application to swimming pool & spa.

- Maximum Working Pressure:250kpa/36psi/2.5bar
- Maximum Temperature:40°C (104F)



Cartridge Element



Model	WL-ZXG25	WL-ZXG50	WL-ZXG75	WL-ZXG100	WL-ZXG150	WL-ZXG200
A(mm)	368.3	548.3	728.3	908.3	1088.3	1268.3
B(mm)	225	225	225	225	225	225

Model	WL-ZXG25	WL-ZXG50	WL-ZXG75	WL-ZXG100	WL-ZXG150	WL-ZXG200
C(mm)	184.5	364.5	544.5	724.5	904.5	1091.0
D(mm)	183	183	183	183	183	183

Model	Pipe Size		Filter Area (m^2)	Design Flow		Micron (μm)	Tank Diameter (mm)	Tank Height (mm)
	inches	mm		m^3/h	lpm			
WL-ZXG25	1.5	50	2.25	5.50	92	≤20	225	368.3
WL-ZXG50	1.5	50	4.63	11.40	190	≤20	225	548.3
WL-ZXG75	1.5	50	7.00	17.00	283	≤20	225	728.3
WL-ZXG100	1.5	50	9.40	22.90	382	≤20	225	908.3
WL-ZXG150	2.0	63	13.72	33.40	556	≤20	225	1088.3
WL-ZXG200	2.0	63	16.82	40.90	681	≤20	225	1268.3

MAXIMUM WORKING PRESSURE:36psi/2.5bar/cm^2, MAXIMUM TEMPERATURE ≤40℃

"P-DYG" SERIES FILTERS

POOL FILTERS

Features:

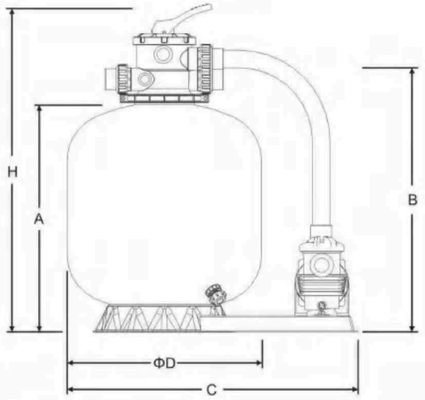
- Easy to install.
- **MILLIAN** filtration system is equipped with the most optimal combination of our filter and pump.
- Injection-molded mounting base makes filtration system work more stable.
- Unitized thermal plastic filter tank, tough, durable and suitable for many different weather condition.
- Circulation pump with good performance, corrosion-proof and quiet.





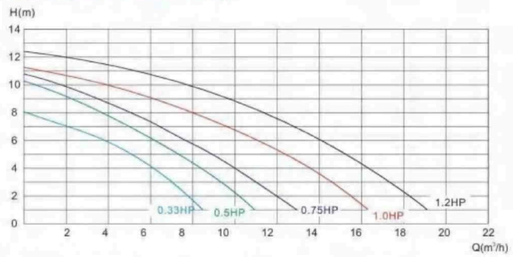
Standard: plastic clamp

Optional: stainless steel clamp



ΦD(mm)	350	410	450	535	635
H(mm)	750	770	830	870	970
A(mm)	495	515	575	615	715
B(mm)	545	565	625	665	765
C(mm)	570	570	770	770	770

QH.Curve of The Pump



Model	Pipe Size		Filter Area (m^2)	Design Flow		0.5-0.8mm Sand Weight (kg)	Tank Volume (m^3)	Tank Weight (kg)	Valve Weight (kg)	Matching Pump (HP)
	inches	mm		m^3/h	lpm					
P-DYG350	1.5	50	0.10	4.50	75	25	0.06	4.0	3	KP256/0.33HP
P-DYG400	1.5	50	0.13	6.50	108	34	0.09	5.0	3	KP256/0.33HP
P-DYG450	1.5	50	0.16	8.00	133	50	0.15	6.5	3	KP356/0.5HP
P-DYG500	1.5	50	0.23	11.50	192	80	0.20	9.2	3	KP756/1.0HP
P-DYG650	1.5	50	0.32	16.00	267	160	0.32	12.1	3	KP856/1.2HP

MAXIMUM WORKING PRESSURE: 36psi/2.5kg/cm^2(PLASTIC CLAMP) MAXIMUM OPERATING WATER TEMPERATURE≤50℃

"WL-P-DYG" SERIES FILTERS

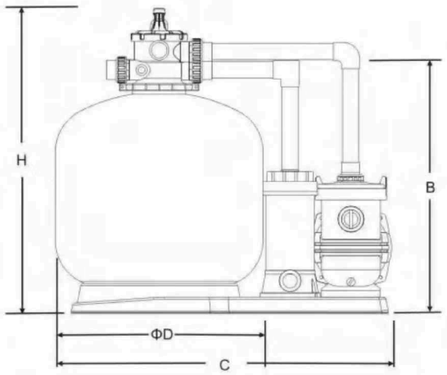
POOL FILTERS



The integrated circulation, filtration and sterilization unit is assembled with **MILLIAN** plastic sand filter, circulation pump and chemical feeder. The unit is a multifunctional system assembled with precision, simple to operate, easy to install. It's the optimal choice for filtering movable and inflated pools.

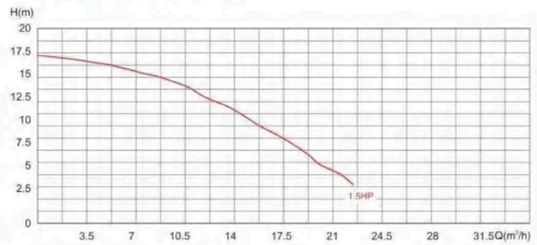
Features:

- Compact design for easy carriage and quick to install. Contains all the functions of circulation, filtration and sterilization, ready to use.
- The base uses singular forming which makes the base strong and durable. The operation of the unit is stable and reliable.
- The circulation pump has superior performance and extremely quiet during operation.
- The filter uses UV proof food-level PE material to produce that is safe, eco-friendly and anti-corrosive.
- The pill dispenser uses hard tube connection, it is easy to use.
- The whole unit is accurately assembled, it is easy to install and maintain, it is suitable for moving pools and private pools.



ΦD(mm)	635
H(mm)	970
A(mm)	715
B(mm)	765
C(mm)	1020

QH.Curve of The Pump



Model	Pipe Size		Filter Area (m^2)	Design Flow		0.5-0.8mm Sand Weight (kg)	Tank Volume (m^3)	Tank Weight (kg)	Valve Weight (kg)	Matching Pump (HP)	Chemical feeder
	inches	mm		m^3/h	lpm						
WL-P-DYG650YH	1.5	50	0.32	16	267	160	0.32	13	3	HLLF-150	CL-200

MAXIMUM WORKING PRESSURE: 36psi/2.5kg/cm^2(PLASTIC CLAMP) MAXIMUM OPERATING WATER TEMPERATURE ≤ 50℃

“RDG” SERIES FILTERS

POOL FILTERS

RDG300 series filtration system is specially designed for domestic swimming pool. The component design is easy to assemble, and the installation is simple to operate; A variety of connection sizes can meet different usage scenarios. The RDG300K is equipped with strainer basket , while the RDG300X is not, so you will have more choices.



RDG300K



RDG300X

Features:

- Simple installation and easy operation.
- The sand filter and the water pump are precisely matched, so that the performance of the unit is optimal and efficient.
- The combined base can meet the requirements of different scenarios.
- Unitized thermal plastic filter tank, tough, durable and suitable for many different weather conditions.
- Pump built-in heat protector makes the service life longer.
- The pump meets F insulation class and IPX5 protection requirement.
- The pump has good sealing and anti-corrosion performance, and runs extremely quiet.
- A variety of connection sizes, suitable for 32/38mm flexible hose, 1.5"/50mm pipe.
- The whole unit includes hoses and other necessary accessories.



RDG300K SERIES SAND FILTER SYSTEM

Includes:

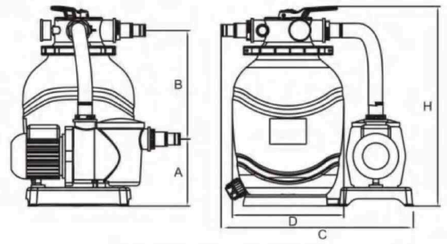
- 12”Durable top mount plastic filter tank
- Standard: 4-Way Multiport Valve (Optional: 6-Way Multiport Valve)
- 0.33HP Water Pump(With Strainer Basket)



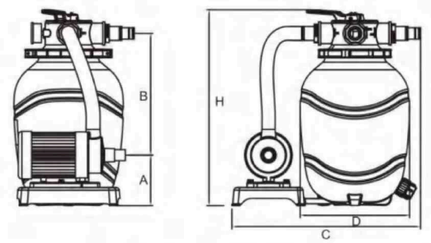
RDG300X SERIES SAND FILTER SYSTEM

Includes:

- 12”Durable top mount plastic filter tank
- Standard: 4-Way Multiport Valve (Optional: 6-Way Multiport Valve)
- 0.25HP Water Pump (Without Strainer Basket)



RDG300K

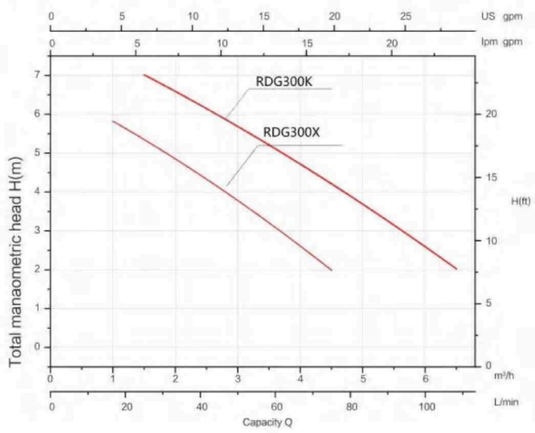


RDG300X

Product Dimensions

Model	RDG300K	RDG300X
A(mm)	183	140
B(mm)	297	340
C(mm)	525	525
D(mm)	305	305
H(mm)	546	546

QH.Curve of the pump



Optional:

6-way multiport valve



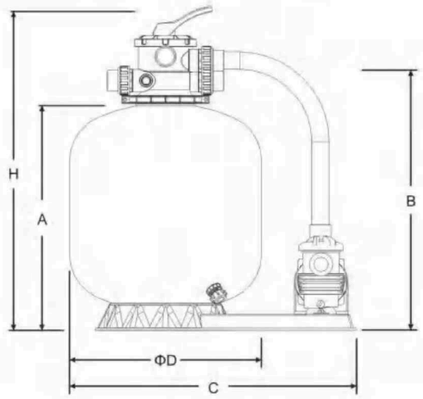
Model	Filter size	Pump Power (HP)	Filter Area (m^2)	Flow rate		Pump flow rate		Sand weight 0.5-0.8mm (kg)	Multiport valve	Pipe connection
				m^3/h	lpm	m^3/h	lpm			
RDG300K-4W	12"	0.33	0.073	3.65	60.8	8.2	136.67	20	4-way	32/38mm; 1.5"/50mm (optional)
RDG300X-4W	12"	0.25	0.073	3.65	60.8	6.5	108.33	20	4-way	
RDG300K-6W	12"	0.33	0.073	3.65	60.8	8.2	136.67	20	6-way	
RDG300X-6W	12"	0.25	0.073	3.65	60.8	6.5	108.33	20	6-way	

"WL-GB" SERIES FILTERS
POOL FILTERS

Features:

- Easy to install.
- **MILLIAN** filtration system is equipped with the most optimal combination of our filter and pump.
- Injection-molded mounting base makes filtration system work more stable.
- Unitized thermal plastic inner tank with fiberglass twining around outside, much more strong, durable and suitable for many different weather condition.
- Circulation pump with good performance, corrosion-proof and quiet.







Standard: plastic clamp

Optional: stainless steel clamp
maximum working pressure:50psi

ΦD(mm)	350	410	450	535	635
H(mm)	750	770	830	870	970
A(mm)	495	515	575	615	715
B(mm)	545	565	625	665	765
C(mm)	570	570	770	770	770

QH.Curve of The Pump



Model	Pipe Size		Filter Area (m^2)	Design Flow		0.5-0.8mm Sand Weight (kg)	Tank Volume (m^3)	Tank Weight (kg)	Valve Weight (kg)	Matching Pump (HP)
	inches	mm		m^3/h	lpm					
WL-GB350	1.5	50	0.10	4.50	75	25	0.06	4.5	3	KP256/0.33HP
WL-GB400	1.5	50	0.13	6.50	108	34	0.09	5.5	3	KP256/0.33HP
WL-GB450	1.5	50	0.16	8.00	133	50	0.15	7.0	3	KP356/0.5HP
WL-GB500	1.5	50	0.23	11.50	192	80	0.20	9.8	3	KP756/1.0HP
WL-GB650	1.5	50	0.32	16.00	267	160	0.32	13.0	3	KP856/1.2HP

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

DEPTH SAND FILTERS
POOL FILTERS



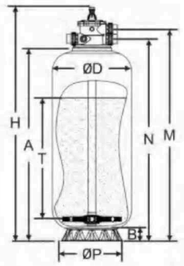
WL-DDG13400~WL-DDG15700



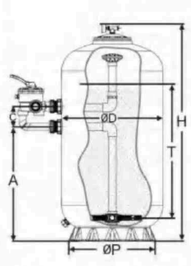
WL-BDG10400~WL-BDG13700

High quality and high performance are aesthetically designed for water treatment.

High density fiberglass sand filters are constructed by the latest engineering technology. The improvement of flow ability provides an ultra-pure water filtration. The fiberglass winding design allows the filter to have extra strength and resistance to chemical and corrosives. They're the most recommendable equipment for the application of water treatment.



WL-DDG13400~WL-DDG15900



WL-BDG10400~WL-BDG13700

WL-DDG13400~WL-DDG15700

ΦD (mm)	400	450	530	630	700	400	450	530	630	700
H (mm)	1300	1300	1300	1300	1300	1500	1500	1500	1500	1500
A (mm)	1062	1062	1062	1062	1062	1262	1262	1262	1262	1262
B (mm)	75	75	75	95	95	75	75	75	95	95
M (mm)	1174	1174	1174	1174	1174	1374	1374	1374	1374	1374
N (mm)	1115	1115	1115	1115	1115	1315	1315	1315	1315	1315
ΦP (mm)	390	390	390	565	565	390	390	390	565	565
T (mm)	650	650	650	630	630	850	850	850	830	830

WL-BDG10400~WL-BDG13700

ΦD (mm)	400	450	530	630	700	400	450	530	630	700
H (mm)	1160	1160	1160	1160	1160	1360	1360	1360	1360	1360
A (mm)	660	660	660	660	660	860	860	860	860	860
C (mm)	125	125	125	125	125	125	125	125	125	125
ΦP (mm)	390	390	390	565	565	390	390	390	565	565
T (mm)	650	650	650	650	650	850	850	850	850	850

Model	Pipe Size		Filter Area (m^2)	Design Flow		0.4-0.8mm Sand Weight (kg)	Tank Diameter (mm)	Tank Height (mm)
	inches	mm		m^3/h	lpm			
WL-DDG13400	1.5	50	0.13	4.5	75	120	400	1300
WL-DDG13450	1.5	50	0.16	5.6	93	150	450	1300
WL-DDG13500	1.5	50	0.20	7.0	117	185	530	1300
WL-DDG13600	1.5	50	0.32	11.2	187	245	630	1300
WL-DDG13700	1.5	50	0.37	13.0	217	345	700	1300
WL-DDG15400	1.5	50	0.13	3.9	65	150	400	1500
WL-DDG15450	1.5	50	0.16	4.8	80	195	450	1500
WL-DDG15500	1.5	50	0.20	6.0	100	240	530	1500
WL-DDG15600	1.5	50	0.32	9.6	160	325	630	1500
WL-DDG15700	1.5	50	0.37	11.0	183	400	700	1500
WL-DDG15800	2.0	63	0.50	15.0	250	500	800	1500
WL-DDG15900	2.0	63	0.64	19.2	320	590	900	1500

Model	Pipe Size		Filter Area (m^2)	Design Flow		0.4-0.8mm Sand Weight (kg)	Tank Diameter (mm)	Tank Height (mm)
	inches	mm		m^3/h	lpm			
WL-BDG10400	1.5	50	0.13	4.5	75	110	400	1160
WL-BDG10450	1.5	50	0.16	5.6	93	140	450	1160
WL-BDG10500	1.5	50	0.20	7.0	117	170	500	1160
WL-BDG10600	1.5	50	0.32	11.2	187	230	630	1160
WL-BDG10700	1.5	50	0.37	13.0	217	325	700	1160
WL-BDG13400	1.5	50	0.13	3.9	65	140	400	1360
WL-BDG13450	1.5	50	0.16	4.8	80	185	450	1360
WL-BDG13500	1.5	50	0.20	6.0	100	225	500	1360
WL-BDG13600	1.5	50	0.32	9.6	160	310	630	1360
WL-BDG13700	1.5	50	0.37	11.0	183	430	700	1360

MAXIMUM WORKING PRESSURE:58psi/4.0bar/cm², MAXIMUM TEMPERATURE ≤50°C, MAXIMUM TESTING PRESSURE: 86psi/6.0bar/cm²

DEPTH SAND FILTER

POOL FILTERS

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

Model	Connections		Filter Area (m^2)	Design Flow		Sand Weight 0.5-0.8mm(kg)	Grave Weight 1-2mm(kg)	Tank Diameter (mm)	Tank Height (mm)
	inches	mm		m^3/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

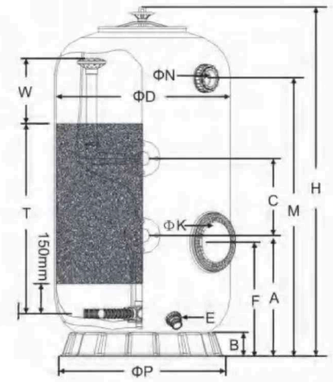
With Flange

Model	Connections		Filter Area (m^2)	Design Flow		Sand Weight 0.5-0.8mm(kg)	Grave Weight 1-2mm(kg)	Tank Diameter (mm)	Tank Height (mm)
	inches	mm		m^3/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

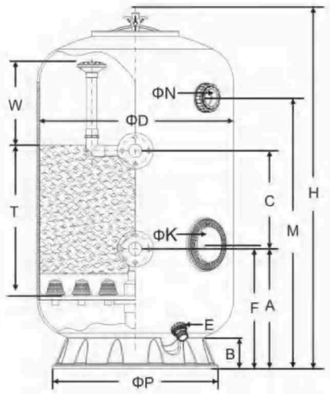
Model	Connections		Filter Area (m^2)	Design Flow		Sand Weight 0.5-0.8mm(kg)	Grave Weight 1-2mm(kg)	Tank Diameter (mm)	Tank Height (mm)
	inches	mm		m^3/h	lpm				
WL-ECG15800	2	63	0.50	20.0	333	455	110	800	1600
WL-ECG15900	2	63	0.64	25.6	426	585	145	900	1600
WL-ECG151000	2	63	0.79	31.6	526	720	175	1000	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/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



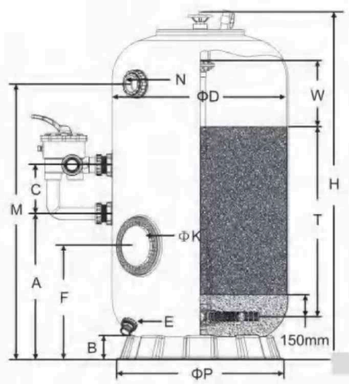
With Lateral

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



With Nozzle Plate

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



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)	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

COMMERCIAL HI-RATE SAND FILTERS

POOL 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.





Cover Lid



Collector Arms



Pressure Control Manometer Panel

Optional: Sight glass, manhole, nozzle plate.



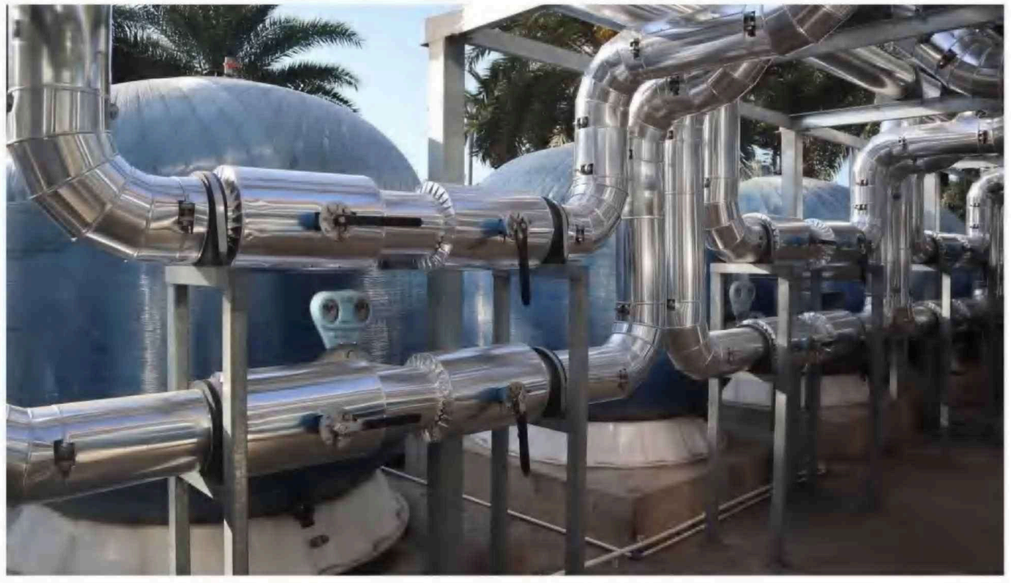
Sight Glass

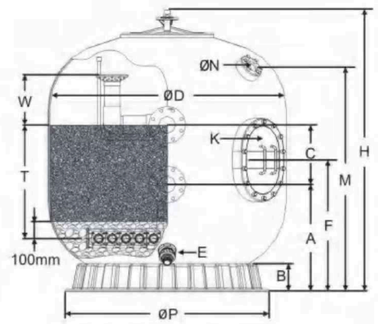


Manhole



Nozzle Plate

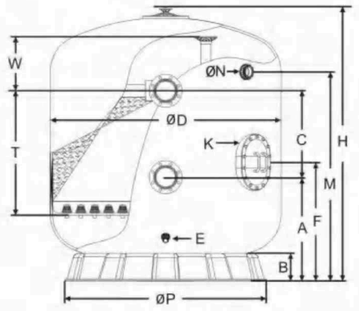




With Collector Arms

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

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



With Nozzle Plate

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	450X350	450x350
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	Flange Connections		Filter Area (m^2)	Design Flow		0.4-0.8mm Sand Weight (kg)	1-2mm Gravel Weight (kg)	Tank Diameter (mm)	Tank Height (mm)
	inches	mm		m^3/h	lpm				
WL-CCG1400	4	110	1.54	61	1016	1800	220	1420	1900
WL-CCG1600	4	110	2.01	80	1333	2300	300	1620	2000
WL-CCG1800	6	160	2.54	101	1683	2900	360	1830	2100
WL-CCG2000	6	160	3.14	125	2083	3600	440	2030	2200
WL-CCG2300	8	200	4.15	166	2766	4800	580	2300	2350
WL-CCG2500	8	200	4.90	196	3265	5700	680	2500	2400
WL-CCG3000	8	200	7.07	282	4698	8250	980	3000	2650

STANDARD: MAXIMUM WORKING PRESSURE: 36psi/2.5kg/cm^2 MAXIMUM OPERATING WATER TEMPERATURE≤50℃ MAXIMUM TESTING PRESSURE:58psi/4.0kg/cm^2
OPTIONAL: MAXIMUM WORKING PRESSURE: 58psi/4.0kg/cm^2 MAXIMUM OPERATING WATER TEMPERATURE≤50℃ MAXIMUM TESTING PRESSURE:86psi/6.0kg/cm^2

HORIZONTAL SAND FILTERS

POOL 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



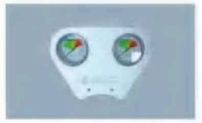
Top Diffuser



Cover Lid



Sand Drain



Pressure Control Manometer Panel



Φ1200mm

Model	L Length (mm)	Flange Connections		Filter Area (m^2)	Design Flow		0.4-0.8mm Sand Weight (kg)	1-2mm Gravel Weight (kg)	Tank Diameter (mm)	Tank Height (mm)
		inches	mm		m^3/h	lpm				
WL-HF121900	1900	4	110	1.96	59	983	1100	430	1200	1390
WL-HF122300	2300	6	160	2.42	73	1216	1430	550	1200	1390
WL-HF122500	2500	6	160	2.65	79	1316	1750	700	1200	1390
WL-HF122700	2700	6	160	2.87	86	1433	2080	830	1200	1390
WL-HF123000	3000	6	160	3.21	96	1599	2330	925	1200	1390

Φ1400mm

Model	L Length (mm)	Flange Connections		Filter Area (m^2)	Design Flow		0.4-0.8mm Sand Weight (kg)	1-2mm Gravel Weight (kg)	Tank Diameter (mm)	Tank Height (mm)
		inches	mm		m^3/h	lpm				
WL-HF141900	1900	4	110	2.23	67	1116	2000	580	1400	1600
WL-HF142500	2500	6	160	3.02	91	1516	2750	800	1400	1600
WL-HF143000	3000	6	160	3.67	110	1833	3375	1000	1400	1600

Φ1600mm

Model	L Length (mm)	Flange Connections		Filter Area (m^2)	Design Flow		0.4-0.8mm Sand Weight (kg)	1-2mm Gravel Weight (kg)	Tank Diameter (mm)	Tank Height (mm)
		inches	mm		m^3/h	lpm				
WL-HF161900	1900	6	160	2.47	74	1233	2800	600	1600	1830
WL-HF162500	2500	6	160	3.36	101	1683	3800	850	1600	1830
WL-HF163000	3000	6	160	4.10	123	2049	4700	1050	1600	1830

Φ1800mm

Model	L Length (mm)	Flange Connections		Filter Area (m^2)	Design Flow		0.4-0.8mm Sand Weight (kg)	1-2mm Gravel Weight (kg)	Tank Diameter (mm)	Tank Height (mm)
		inches	mm		m^3/h	lpm				
WL-HF182500	2500	6	160	3.74	112	1866	4850	980	1800	2050
WL-HF183000	3000	6	160	4.58	137	2282	5930	1230	1800	2050
WL-HF183500	3500	8	200	5.41	162	2699	7000	1480	1800	2050
WL-HF184000	4000	8	200	6.25	187	3115	8080	1700	1800	2050

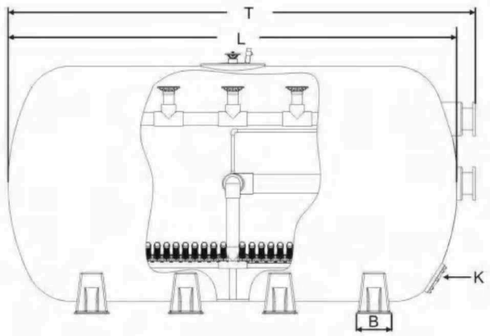
Φ2000mm

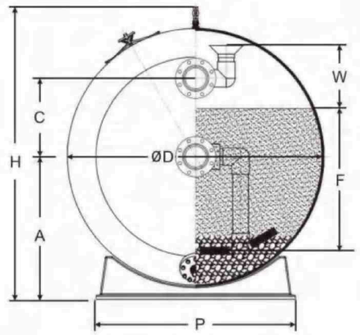
Model	L Length (mm)	Flange Connections		Filter Area (m^2)	Design Flow		0.4-0.8mm Sand Weight (kg)	1-2mm Gravel Weight (kg)	Tank Diameter (mm)	Tank Height (mm)
		inches	mm		m^3/h	lpm				
WL-HF202500	2500	6	160	4.34	130	2166	6000	1050	2000	2220
WL-HF203000	3000	6	160	5.30	159	2649	7450	1300	2000	2220
WL-HF203500	3500	8	200	6.25	187	3282	8900	1550	2000	2220
WL-HF204000	4000	8	200	7.21	216	3599	10350	1800	2000	2220
WL-HF204500	4500	8	200	8.16	245	4082	11800	2080	2000	2220

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

HORIZONTAL SAND FILTERS

POOL FILTERS





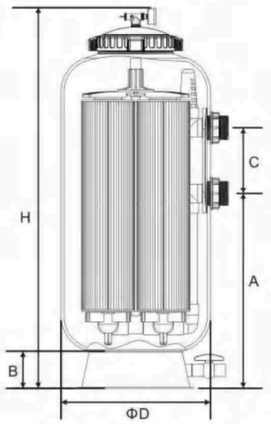
L (mm)	H (mm)	A (mm)	B (mm)	C (mm)	T (mm)	P (mm)	K(mm)	W(mm)	F(mm)
Φ1200mm									
1900	1390	725	250	340	2050	900	180	225	550
2300	1390	725	250	340	2450	900	180	225	550
2500	1390	725	250	340	2650	900	180	225	550
2700	1390	725	250	340	2850	900	180	225	550
3000	1390	725	250	340	3150	900	180	225	550
Φ1400mm									
1900	1600	810	300	400	2150	960	180	225	750
2500	1600	810	300	400	2650	960	180	225	750
3000	1600	810	300	400	3150	960	180	225	750
Φ1600mm									
1900	1830	925	300	450	2100	1230	180	250	910
2500	1830	925	300	450	2700	1230	180	250	910
3000	1830	925	300	450	3200	1230	180	250	910
Φ1800mm									
2500	2050	1040	300	550	2700	1380	180	300	1000
3000	2050	1040	300	550	3200	1380	180	300	1000
3500	2050	1040	300	550	3700	1380	180	300	1000
Φ2000mm									
2500	2220	1090	330	550	2730	1500	180	400	1000-1200
3000	2220	1090	330	550	3230	1500	180	400	1000-1200
3500	2220	1090	330	550	3730	1500	180	400	1000-1200
4000	2220	1090	330	550	4230	1500	180	400	1000-1200
4500	2220	1090	330	550	4730	1500	180	400	1000-1200

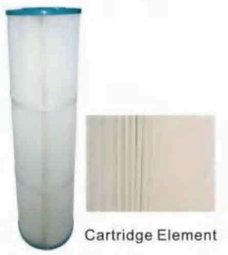
CONVERTIBLE CARTRIDGE & DIATOMACEOUS EARTH FILTER

POOL FILTERS



- 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^2 sizes, fully convertible to DE.
- DE elements in 3.25, 4.18, 6.97, 8.39 Sq.m^2.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.





Cartridge Element



DE Element

Model	BZX225 / BDE35	BZX250 / BDE45	BZX350 / BDE75	BZX450 / BDE90	BZX520
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^2	Ft^2	m^3/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^2, MAXIMUM TEMPERATURE ≤50°C, MAXIMUM TESTING PRESSURE: 58psi/4.0bar/cm^2

DIATOMACEOUS EARTH FIBREGLASS FILTERS

POOL FILTERS

D.E. is historically the media of choice for the designers of some of the largest and most beautiful pools in the world, it is now more practical for all backyard pools as well. It brings you the proven performance of diatomaceousearth media in the world's safest and easiest-to-operate filter.

The greater cycle times and minimized maintenance of the filter, coupled with superior grid system, gives you the finest D.E.filter available.

- Good and crude media for filtration--Diatomaceous(D.E.)
- Hight Filter precision, can reach 2 ~ 3μm.
- Shorter time to backwash, save water and energy sources.
- "Deep bed" designed, save area.



DE650-DE700

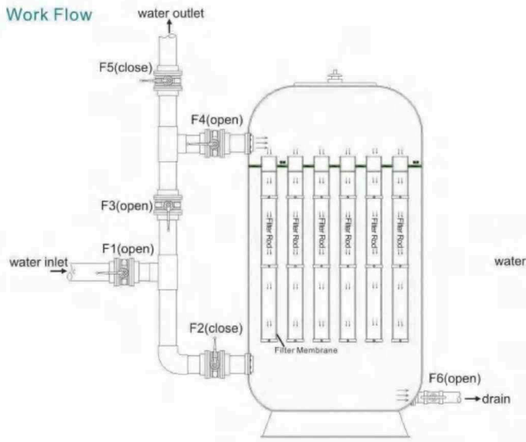
With Valve



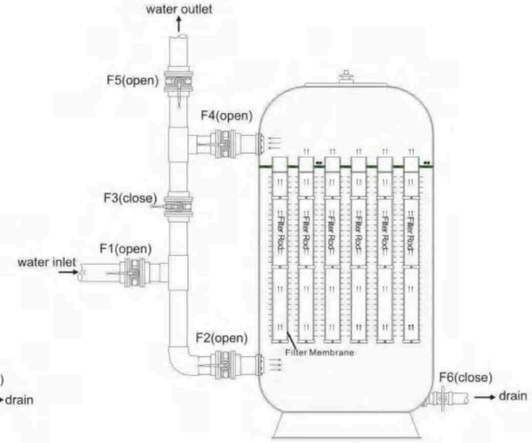
DE800-DE1800

With Flange

Work Flow

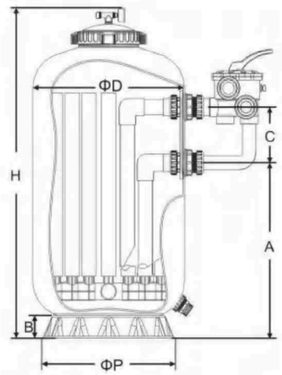


Backwash

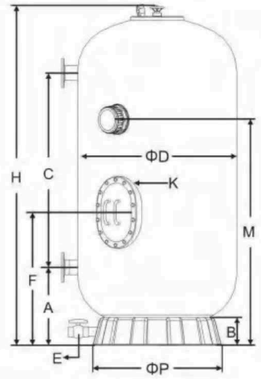


Filter

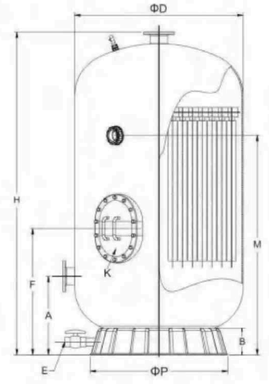
- Standard: Maximum Working Pressure 250kpa/36psi/2.5bar
- Optional: Maximum Working Pressure 400kpa/58psi/4.0bar
- Maximum Temperature 50℃



DE650-DE700



DE800-DE1800



DE1200-DE1800

ΦD(mm)	635	700	800	900	1000	1200	1400	1600	1800
H(mm)	1310	1340	2100	2100	2100	2300	2350	2350	2450
A(mm)	700	730	400	400	400	500	600	600	650
B(mm)	95	95	115	115	140	165	165	215	215
C(mm)	220	220	1300	1300	1300	—	—	—	—
E(mm)	—	—	50	50	50	50	63	63	63
F(mm)	—	—	900	900	900	900	900	900	1000
K(mm)	—	—	400X300	400X300	400X300	400X300	400X300	400X300	400X300
M(mm)	—	—	1350	1350	1350	1400	1400	1400	1450
ΦP(mm)	565	565	690	760	830	980	1215	1450	1610

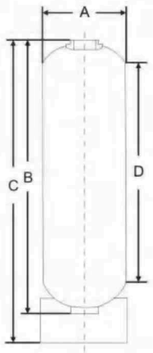
Model	Pipe Size		Filter Area		Design Flow		Required D.E (kg)	Tank Diameter (mm)	Tank Height (mm)
	inches	mm	m^2	Ft^2	m^3/h	lpm			
WL-DE650	2	63	3.64	39	18	300	2.2	635	1310
WL-DE700	2	63	5.07	55	25	417	3.0	700	1340

Model	Flange Connections	Filter Area		Design Flow		Required D.E (kg)	Tank Diameter (mm)	Tank Height (mm)
		m^2	Ft^2	m^3/h	lpm			
WL-DE800	90	9.40	101	47	783	5.0	800	2100
WL-DE900	90	11.00	118	55	916	6.0	900	2100
WL-DE1000	110	15.00	161	75	1250	8.0	1000	2100
WL-DE1200	110	23.40	252	117	1949	13.0	1200	2300
WL-DE1400	160	32.60	351	163	2716	19.0	1400	2350
WL-DE1600	160	40.60	437	203	3382	22.0	1600	2350
WL-DE1800	200	53.40	575	267	4448	30.0	1800	2450

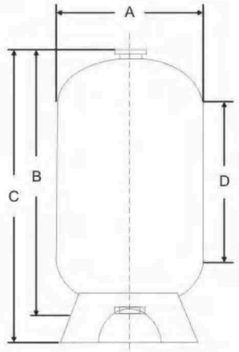
HIGH PRESSURE FIBERGLASS FILTERS

POOL FILTERS

- High-performance material satisfies customers'different application
- Apply to water feeding and sewage water treatment, chemical, electronic, petroleum, food etc.
- Φ150mm-Φ900mm filters are made of PE blow molding inner tank with fiberglass.
- Φ1000mm-Φ1500mm filters are made of PE rotational molding innertank with fiberglass.
- Above Φ700 filters are specially equipped with destruction of negative pressure device.
- Strong ability of pressure-bearing



Φ150~Φ450



Φ500~Φ1500



Model	Volume(L)	Top opening	Bottom opening	Diameter (mm)	Filter height (mm)	A(mm)	B(mm)	C(mm)
WL-HA2045	11.5	2.5"-8NPSM	/	200	450	200	430	450
WL-HA2090	24.8	2.5"-8NPSM	/	200	900	200	805	900
WL-HA2011	35	2.5"-8NPSM	/	200	1100	200	1070	1100
WL-HA2590	38.4	2.5"-8NPSM	/	250	900	250	855	900
WL-HA2514	50	2.5"-8NPSM	/	250	1400	250	1430	1400
WL-HA3014	70	2.5"-8NPSM	/	300	1450	300	1430	1450
WL-HA3016	100	2.5"-8NPSM	/	300	1650	300	1630	1650
WL-HA3516	130	2.5"-8NPSM	/	350	1650	350	1630	1650
WL-HA4016	180	4"-8UN	/	400	1650	400	1630	1650
WL-HA4516	185	4"-8UN	/	400	1650	450	1620	1650
WL-HA5018	280	4"-8UN	4"-8UN	500	1800	500	1650	1800
WL-HA6018	400	4"-8UN	4"-8UN	600	1850	600	1650	1850
WL-HA6020	460	4"-8UN	4"-8UN	600	2000	600	1850	2000
WL-HA7518	650	4"-8UN	4"-8UN	750	1850	750	1620	1850
WL-HA7520	700	4"-8UN	4"-8UN	750	2000	750	1850	2000
WL-HA9020	1040	4"-8UN	4"-8UN	900	2000	900	1950	2000
WL-HA9024	1170	4"-8UN	4"-8UN	900	2400	900	2030	2400
WL-HA10018	1040	4"-8UN	4"-8UN	1000	1850	1000	1650	1850
WL-HA10024	1332	4"-8UN	4"-8UN	1000	2400	1000	2030	2400
WL-HA12024	1909	6" Flange	6" Flange	1200	2400	1200	2000	2400
WL-HA15024	2588	6" Flange	6" Flange	1500	2400	1500	2000	2400

Maximum Working Pressure: 600kpa/87psi/6.0bar Factory Testing Pressure: 900kpa/130psi/9.0bar Maximum Temperature: ≤49℃
Max Vacuum: 127mmHg Filtration Media: silica sand, activated carbon, etc

WPSB SERIES PROTEIN SKIMMER

LIFE SUPPORT SYSTEM

Features:

- Environment friendly and high efficient, low energy consumption.
- High performance venturi injection system to produce sufficient air bubble.
- Remove the suspended solids while increasing oxygen in the water.
- The body is made from FRP (polyester reinforced with fiberglass) , anti-corrosion and anti-UV.
- Reduce the load imposed on bio-filtration system and stabilize water's pH value.
- Trouble-free design, for easy installation and maintenance.
- With collecting tank, easy for disassembling and cleaning.







Technical parameters

Model	Reaction chamber diameter (mm)	Height of water column (mm)	Flow rate (m^3/h)	Water inlet (mm)	Water outlet (mm)	Foam outlet (mm)	Venturi quantity (pcs)	Pump power (kW)
WL-WPSB400	400	2500	10/7.5	63	90	50	1X1"	0. 75X1
WL-WPSB600	600	2700	22/16	90	110	50	1X1.5"	1. 1X1
WL-WPSB800	800	3100	45/34	90	110	50	1X1.5"	1. 5X1
WL-WPSB900	900	3100	55/42	90	140	50	1X2"	2. 2X1
WL-WPSB1000	1000	3600	85/65	110	160	63	2X1.5"	1. 1X2

LLDPE PROTEIN SKIMMER

LIFE SUPPORT SYSTEM

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



Freshwater models

Saltwater models

Features:

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

Application



Seawater venturi pump

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



Technical parameters

Model	Flow rate (@120S) m^3/h	Flow rate (@90S) m^3/h	Diameter of reaction chamber(mm)	Total height (mm)	Total volume (L)	Venturi quantity	Water inlet (mm)	Water outlet (mm)
WL-LLDPE25	7	9	420	2134	226	1	Φ50	Φ90
WL-LLDPE50	14	18	550	2515	452	1	Φ63	Φ110
WL-LLDPE75	24	32	730	2591	797	1	Φ63	Φ110
WL-LLDPE150	40	54	950	2565	1350	1	Φ90	Φ140
WL-LLDPE300	84	112	1350	2794	2800	1	2XΦ90	Φ160
WL-LLDPE600	166	222	1650	3658	5540	2	2XΦ110	Φ225
WL-LLDPE1000	282	376	2134	3658	9407	4	2XΦ160	Φ315
WL-LLDPE2000	344	458	2134	4267	11445	4	2XΦ225	Φ400

BIOLOGICAL FILTER

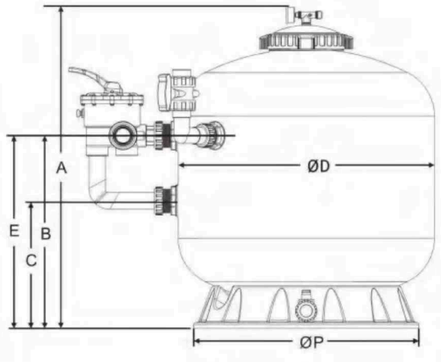
LIFE SUPPORT SYSTEM

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^3)	Fish Load (kg)	Blower (watt)	Media (kg)	Filter Diameter (mm)	Filter Height (mm)
	m^3/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	700	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

MULTIPORT VALVES

6-WAY MULTIPORT 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 func-tions : 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

4-WAY MULTIPORT VALVE



1.5" Multiport valve for top mount filter

BUTTERFLY VALVE FOR COMMERCIAL FILTERS



4-Way Valve Manifold

Size: 3"- 8"



5-Way Valve Manifold

Size: 3"- 8"

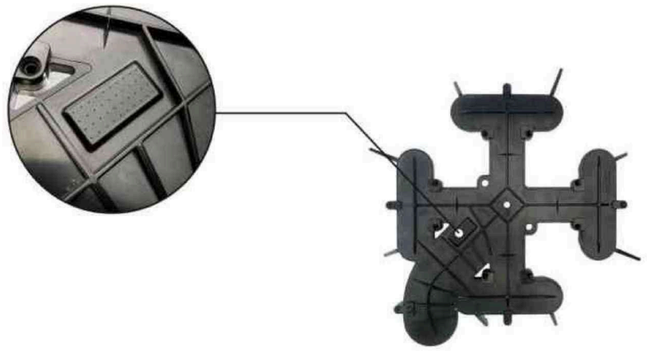
MANIFOLD

DE FILTER TOP MANIFOLD WITH BUILT IN AIR RELIEF VENT

- Heavy-duty materials
- Top manifold with built in air relief vent
- Manufactured to the highest standards to provide you with a quality product
- Suitable to use with only one rod

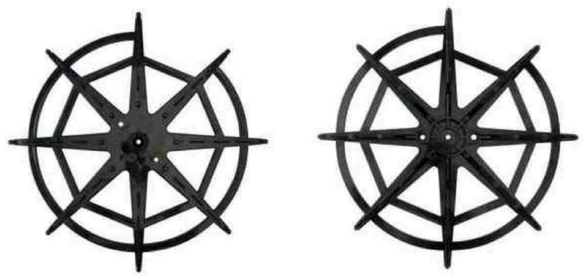


DKC2021



DE FILTER SPIDER BOTTOM MANIFOLD

- Heavy-duty materials
- Manufactured to the highest standards to provide you with a quality product



DKC2021B

Millian
MILLION GOALS, MILLION SOLUTIONS

Underwater Lights



UNDERWATER LIGHTS

The light source is the core part of the underwater light, and its technical characteristics determine the performance and structure of the underwater light. At present, the light source of MILLIAN underwater light application has silicon filled LED panel, variable voltage LED, DIP LED, SMD LED, halogen and incandescent. In order to make it easier for you to understand our products, we will introduce you to the characteristics of the light source so that you can select underwater light products more conveniently.

1.RESIN FILLED LED LAMP

By full enclosing resin, the LED lamp and the interior of the lamp body are fully packaged, so as to achieve complete waterproof and moisture proof.

Features:

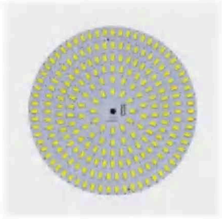
- Resin-filled LED panel allows 100% water proofing with special epoxy, even if only the led panel still keeps working.
- High efficient, supper bright, low heat LED board and control board, low power consumption.
- Color: cool white, warm white, RGB and single blue.
- RGB mode features 19 pre-programmed lighting patterns.





2.Variable voltage LED light:

Variable voltage AC12V-20V led light would be provided you much better and reliable quality even though your pool power supply with voltage fluctuation. Your pool lights would be ensured their working performance and prolonged their lifespan.



Features:

- Safe low voltage: AC12V-20V.
- Can be applied to the voltage fluctuation range of occasion.
- No flicker, high purity, soft light, no glare.
- High brightness (high lumen), strong light transmission.
- Low power consumption, low heat while working.

3.DIP LED light

DIP LED using potting form for packaging. Potting process is injected liquid epoxy resin in LED the molding cavity at first, and then insert the pressure LED bracket welding good put them into the oven for epoxy resin after curing in order to make the LED molded from the mold cavity. Due to the simple fabrication process, low cost, it have a higher market share. In large volume, can be used to artificial insert or AI machine operation, because of the DIP LED high brightness, easy to waterproof processing, so this kind light source widely using in general pool lights, and high power available as well.



Features:

- High brightness, high efficient, low power consumption.
- Safety voltage: AC 12V.
- RGB mode features 19 pre-programmed lighting patterns.

UNDERWATER LIGHTS

4.SMD LED light

SMD LED is attached on the surface of PCB, suitable for SMT processing, can be reflow, solves the brightness, angle of view, flatness, consistency, reliability and other issues, the lighter PCB plate and a reflecting layer material, improvement of removing heavier carbon steel pin of DIP LED , the display epoxy resin less reflective layer to fill, to reduce the size, reduce weight. Thus, surface mount LED can easily integrate product weight by half; eventually make the application more perfect.



Features:

- High efficient SMD LED, power saving up to 80% consumption than halogen lamp and incandescent lamp.
- Beam angle: 120°.
- Safety low voltage: AC 12V.

5.Halogen / Incandescent bead/Lamp cup:

The halogen light bulb or lamp is a type of incandescent lamp which uses a halogen gas in order to increase both light output and rated life. They are known for moderately high efficiency, quality of light, and high rated life compared to regular incandescent lamps.

Features:

- Super brightness, high efficient.
- Safe low voltage: AC12V.
- Competitive cost.


lamp beads

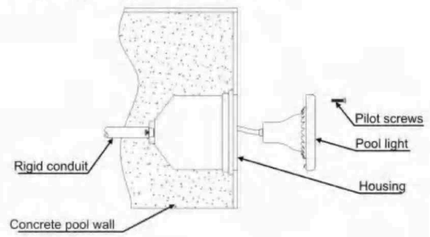

lamp cup


lamp bulb

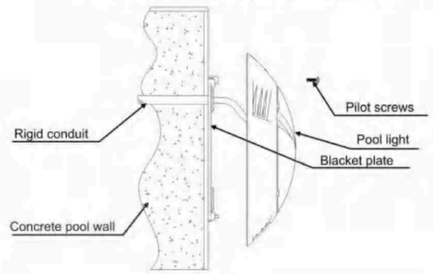

PAR56

LASWIM lights installation modes:

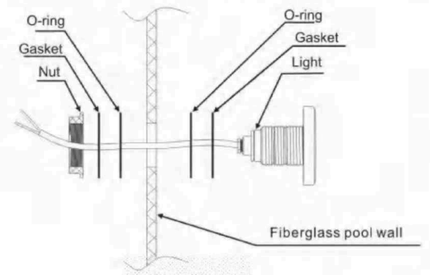
Recessed pool light installation mode



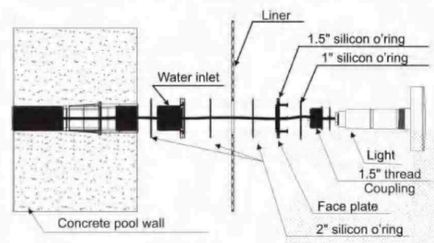
Wall-mounted pool light installation mode



Panel pool light installation mode



Liner pool light installation mode



WL-MAG/WL-MBG/WL-MCG



WL-MAG

Compatible to be with niche and bracket plate, you're able to choose recessed or wall mount installation mode much more flexible. MAG/MBG/MCG lights full filled resin allows 100% water proofing with special epoxy, even if only the led panel still keeps working.

With the best technology, the heat radiation is wasted fast when producing brightness, preventing from reducing in attenuation of and extend lamp life.



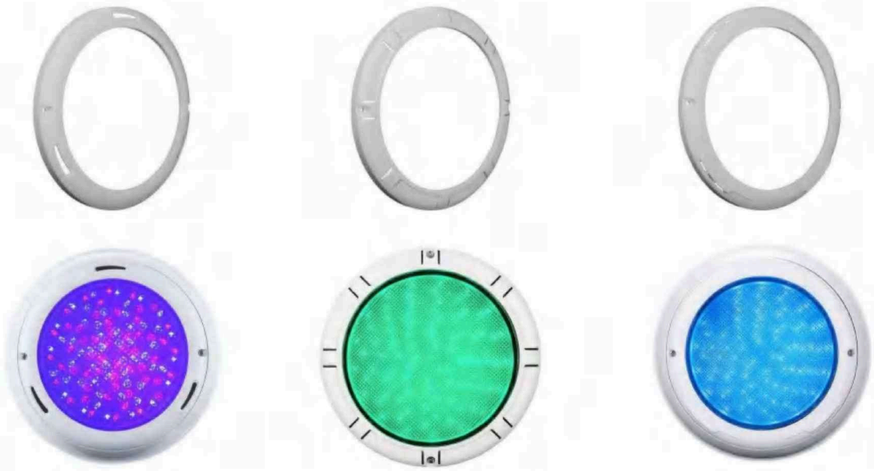
Colour Change



PC board with resin to protect from water penetration, convenient wiring

Main features:

- Fully resin enclosing the light cable connection, to achieve complete waterproof and moisture proof.
- High efficient, supper bright, big lumen.
- Waterproof standard: IP68.
- Color: cool white, warm white, RGB and single color.
- RGB mode features 19 pre-programmed patterns.
- Installation mode: compatible to housing type with niche and wall-mounted with bracket plate.
- Color temperature: cool white 6000K, warm white: 3000K.



MAG led light　　MBG led light　　MCG led light

This series lights are available to choose different face ring

WL-MAG/WL-MBG/WL-MCG



Recessed light with niche





Wall mounted light with bracket plate



WL-MAG.1

Model	Power (W)	Voltage (V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-MAG-LED072TB	6W	12V	72	Resin filled	White color	255	Housing type & wall-mounted type
WL-MAG-LED072TC	6W	12V	72	Resin filled	RGB	90	Housing type & wall-mounted type
WL-MAG-LED144TB	12W	12V	144	Resin filled	White color	455	Housing type & wall-mounted type
WL-MAG-LED144TC	12W	12V	144	Resin filled	RGB	110	Housing type & wall-mounted type
WL-MAG-LED252TB	18W	12V	252	Resin filled	White color	731	Housing type & wall-mounted type
WL-MAG-LED252TC	18W	12V	252	Resin filled	RGB	255	Housing type & wall-mounted type
WL-MAG-LED324TB	24W	12V	324	Resin filled	White color	1075	Housing type & wall-mounted type
WL-MAG-LED324TC	24W	12V	324	Resin filled	RGB	355	Housing type & wall-mounted type
WL-MAG-LED126JTB	18W	12-20V	126	Resin filled	White color	1250	Housing type & wall-mounted type
WL-MAG-LED126JTC	18W	12-20V	126	Resin filled	RGB	780	Housing type & wall-mounted type
WL-MAG-LED162JTB	18W	12-20V	162	Resin filled	White color	1370	Housing type & wall-mounted type
WL-MAG-LED162JTC	18W	12-20V	162	Resin filled	RGB	880	Housing type & wall-mounted type
WL-MAG-LED216JTB	24W	12-20V	216	Resin filled	White color	1950	Housing type & wall-mounted type
WL-MAG-LED216JTC	24W	12-20V	216	Resin filled	RGB	1300	Housing type & wall-mounted type

WL-MAG.2 Non-resin filled LED

Model	Power (W)	Voltage (V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-MAG.2-LED162JTB	18W	12-20V	162	High brightness	White color	1500	Housing type & wall-mounted type
WL-MAG.2-LED162JTC	18W	12-20V	162	High brightness	RGB	970	Housing type & wall-mounted type
WL-MAG.2-LED216JTB	24W	12-20V	216	High brightness	White color	2150	Housing type & wall-mounted type
WL-MAG.2-LED216JTC	24W	12-20V	216	High brightness	RGB	1500	Housing type & wall-mounted type

UNDERWATER LIGHTS



MILLIAN series flat light is elegant in design, ultra-thin lamp againsts to the pool wall much more closely. It not only provides super brightness and high efficiency, but also very convenient installation to mount to the pool with bracket plate directly.



MDA face ring MDB face ring

- Code 3040930059 bracket for concrete pool (non-niche).
- Code 3040930061 Mounting set for panel pool.
- Code 1219800009 retrofit plate for light with European or American Niche.



3040930059

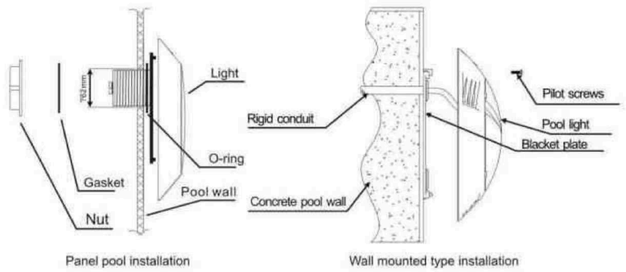


3040930061



1219800009

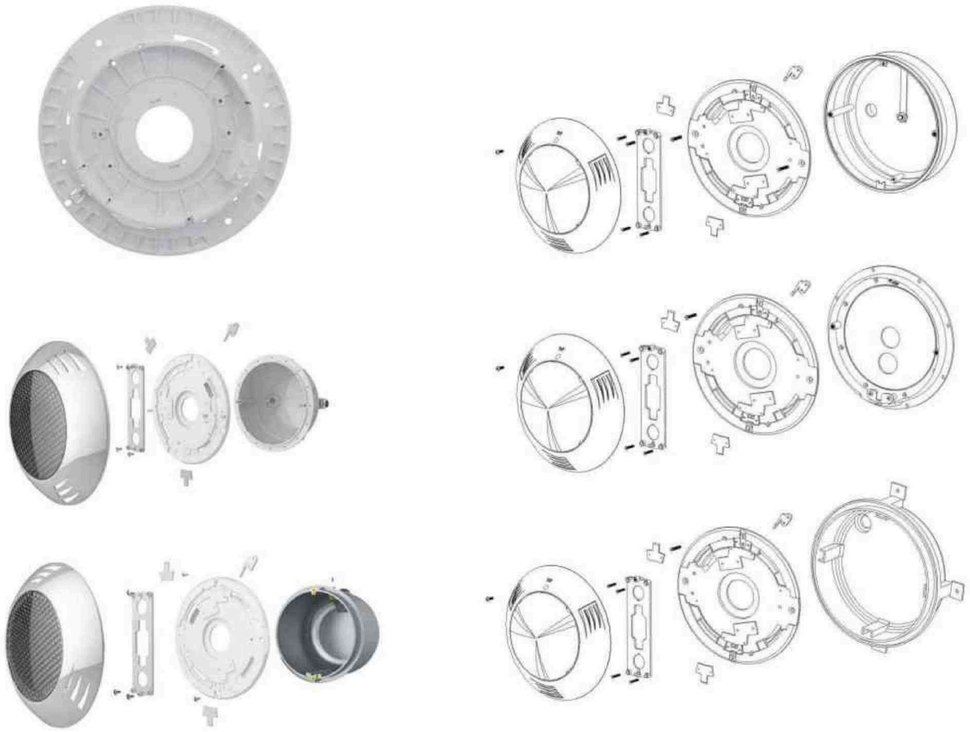
INSTALLATION DRAWING



Panel pool installation Wall mounted type installation

RETROFIT PLATE

Universal Retrofit Bracker for Niche Lights,fit for most type of niches all over the world.



TECHNICAL DATA

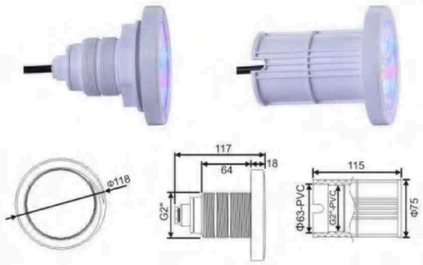
Model	Power (W)	Voltage (V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-MD-LED162JTB	18W	AC 12-20V	162	Wide voltage	White color	1500	Wall mounted type
WL-MD-LED162JTC	18W	AC 12-20V	162	Wide voltage	RGB	970	Wall mounted type
WL-MD-LED216JTB	24W	AC 12-20V	216	Wide voltage	White color	2150	Wall mounted type
WL-MD-LED216JTC	24W	AC 12-20V	216	Wide voltage	RGB	1500	Wall mounted type
WL-MD-LED018JTB	18W	AC 12V	54	SMD LED	White color	1185	Wall mounted type
WL-MD-LED018JTC	18W	AC 12V	54	SMD LED	RGB	245	Wall mounted type
WL-MD-LED16PC	18W	DC12V	16	SMD LED	RGB+cool white+warm white	1380	Wall mounted type
WL-MD-LED24PC	24W	DC12V	16	SMD LED	RGB+cool white+warm white	1650	Wall mounted type
WL-MD-LED024JTB	24W	AC12V	72	SMD LED	White color	----	Wall mounted type
WL-MD-LED024JTC	24W	AC12V	72	SMD LED	RGB	----	Wall mounted type

WL-ME



MILLIAN light with 2" thread coupling is compatible to 2" int.thread wall conduit and pvc pipe. This series light is widely used in different kind pool, spa and water features. Its crystal PC lens improves its corrosion resistance and transparency to a new level.

- Code 3040930063 kits for panel pool installation.
- ME light is able to connect to 2" wall conduit directly.
- Code 3040930062 kits for concrete pool with 2" or 63mm pvc pipe.

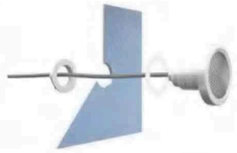


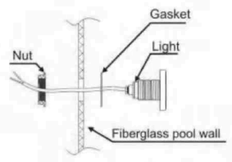


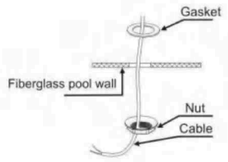
3040930063

3040930062

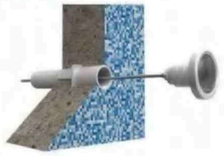
Panel pool installation

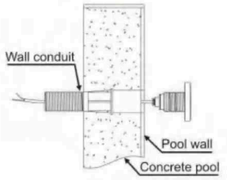


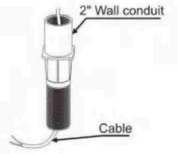




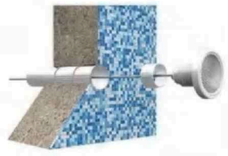
Concrete pool installation with wall conduit:

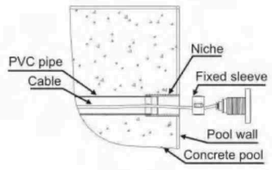


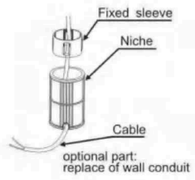




Concrete pool installation to 2"/63mm pipe







TECHNICAL DATA

Model	Power(W)	Voltage(V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-ME-LED054JTB	6W	12-20V	54	Wide voltage	White color	485	√ for fiberglass pool √ for panel pool √ for concrete pool
WL-ME-LED054JTC	6W	12-20V	54	Wide voltage	RGB	120	
WL-ME-LED081JTB	9W	12-20V	81	Wide voltage	White color	760	
WL-ME-LED081JTC	9W	12-20V	81	Wide voltage	RGB	200	
WL-ME-LED108JTB	12W	12-20V	108	Wide voltage	White color	1000	
WL-ME-LED108JTC	12W	12-20V	108	Wide voltage	RGB	300	

WL-MF

MILLIAN TORCH LED LIGHT

MF series torch led light is with an unique designed and new technology, featuring an innovation, energy efficient and fast cooling. Just need to slip into a standard 1.5" pvc pipe or return fitting, easy and simple operation.



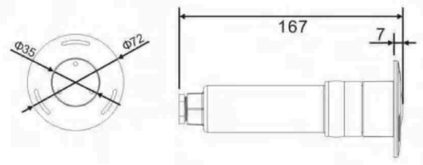
Main features:

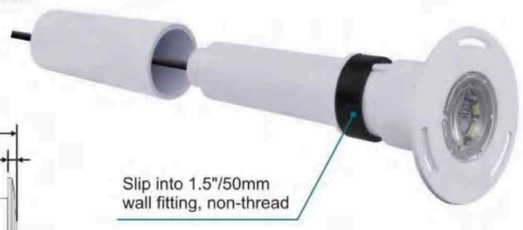
- Low wattages but brilliant illumination.
- Low energy consumption.
- Variable voltage range AC12-20V.
- No flicker, high purity, soft light, no glare.
- Multi-color and white color available.
- High brightness (high lumen), strong light transmission.
- IP68 waterproof standard.
- Suitable to small space installation, such as pool step, spa, etc.
- Installation mode: Housing type, slip into 1.5"/50mm wall fitting or pvc pipe.
- Color: cool white, warm white, RGB and single color.



INSTALLATION GUIDANCE

- Slip into 1.5"/50mm pvc rigid hose or socket, non-thread.
- Slip into 1.5"/50mm wall fitting non-thread.





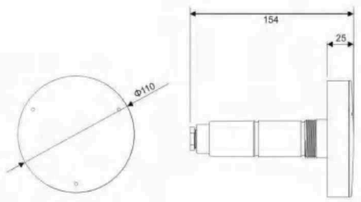
TECHNICAL DATA

Model	Power(W)	Voltage(V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-MF-LED003PB-C	3W	12-20V	1	Wide voltage	Cool white	180	Directly slip into 1.5" PVC pipe
WL-MF-LED003PB-W	3W	12-20V	1	Wide voltage	Warm white	180	
WL-MF-LED003PC	3W	12-20V	1	Wide voltage	RGB	150	

WL-MG



With distinctive design lens, MG light performances extraordinary and gorgeous lighting effect. Its thread is compatible to connect to 1.5" and 2" int. thread wall fitting or wall conduit, very convenient and widely used in all kinds of pools and spas, especial different liner pools.



Main features:

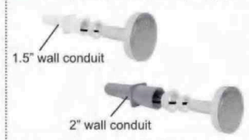
- High quality silicon gasket, it's not easy to age, seepage and leak.
- Variable voltage range AC 12-20V.
- No flicker, high purity, soft light, no glare.
- High brightness (high lumen), strong light transmission.
- Low power consumption, low heat while working.
- IP68 waterproof standard.
- Color: cool white, warm white, RGB & single blue.

Selection guidance

1 Screw to 1.5" wall fitting directly.



2 Adapt to 1.5" or 2" interior thread wall conduit or pvc pipe.



3 With niche part, the light can be connected to 2"/63mm slippy pvc pipe.

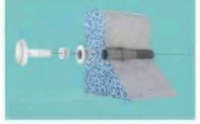


4 Adapt to 2" wall fitting special for different liner pools.



Suitable for all kinds of pools

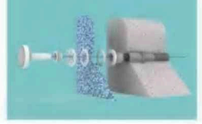
1 Concrete pool installation with wall conduit.



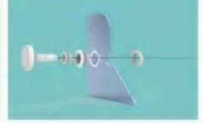
2 Concrete pool installation with niche.



3 Concrete pool + liner installation.



4 Fiberglass pool installation.



5 Panel pool + liner installation



TECHNICAL DATA

Model	Power (W)	Voltage (V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-MG-LED054JTB	6W	12-20V	54	Wide voltage	White color	485	√ For fiberglass pool √ For panel pool+liner √ For concrete pool+tile √ For concrete pool+liner
WL-MG-LED054JTC	6W	12-20V	54	Wide voltage	RGB	120	
WL-MG-LED081JTB	9W	12-20V	81	Wide voltage	White color	760	
WL-MG-LED081JTC	9W	12-20V	81	Wide voltage	RGB	200	
WL-MG-LED108JTB	12W	12-20V	108	Wide voltage	White color	1000	
WL-MG-LED108JTC	12W	12-20V	108	Wide voltage	RGB	300	

WL-MH

The combination of high power led bulbs and wide angle led bulbs improves the brightness space and illumination range, very suitable to medium and large swimming pool.

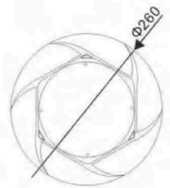
It is threaded for universal 1.5" female inlet and wall conduit, very easy to install and widely used in various swimming pools and spas, especial liner pools.

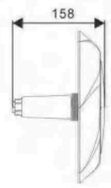


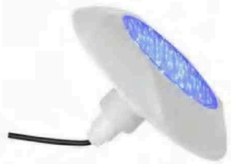
Combination light source brings super brightness

Main features:

- Durable ABS structure.
- Safety low voltage: AC12V, AC12-20V.
- Great compatibility: A variety installation methods bring you convenience for different pool installations: concrete pool, fiberglass pool, liner pool.









Compatible with universal 1.5" wall fitting/wall conduit



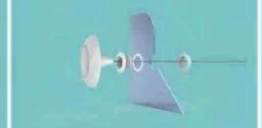
Liner pool kits

Suitable for all kinds of pools

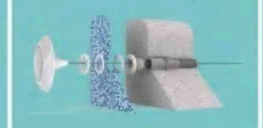
1 Concrete pool installation with 1.5" interior thread wall conduit or pvc pipe.



2 Fiberglass pool installation.



3 Concrete pool + liner installation, adapt to 2" interior thread pipe or wall conduit.



4 Panel pool + liner installation.



TECHNICAL DATA

Model	Power(W)	Voltage(V)	LED QTY	Color	Installation type
WL-MH-LED072JTB	24W	12V	72	White color	√ For fiberglass pool √ For panel pool+liner √ For concrete pool+tile √ For concrete pool+liner
WL-MH-LED072JTC	24W	12V	72	RGB	
WL-MH-LED126JTB	24W	12-20V	126	White color	
WL-MH-LED126JTC	24W	12-20V	126	RGB	
WL-MH-LED162JTB	30W	12-20V	162	White color	
WL-MH-LED162JTC	30W	12-20V	162	RGB	

TECHNICAL DATA

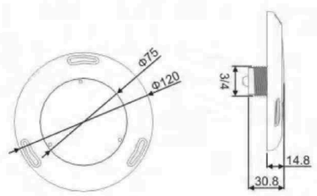
Model	Power(W)	Voltage(V)	LED QTY
WL-MH-LED168JTBW	24W	12-20V	162pcs SMD leds white color+6pcs high power leds white color
WL-MH-LED168JTCW	24W	12-20V	162pcs SMD leds RGB color+6pcs high power leds white color

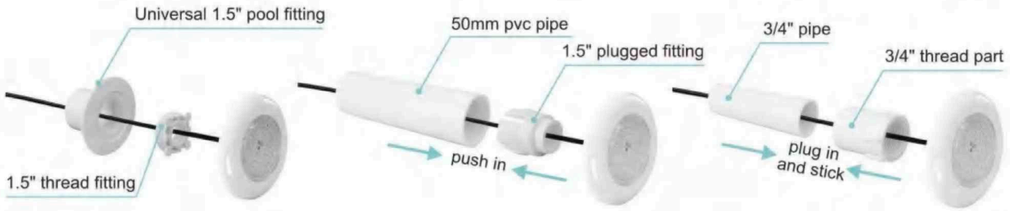
WL-LA



Main features:

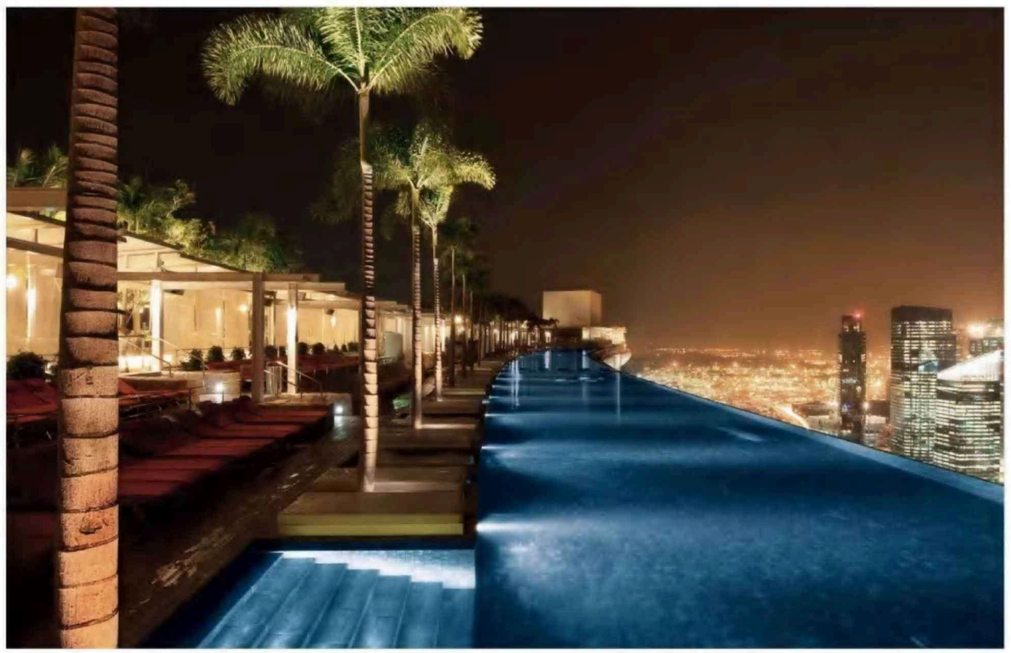
- Ultra-thin design, perfectly integrated with the pool wall.
- Very convenient installation, directly insert into 3/4" pipe or 1.5" water inlet.
- Four-core wire stepless dimming remote control technology can achieve hundreds of color changes.
- Suitable for all kinds pools using.





TECHNICAL DATA

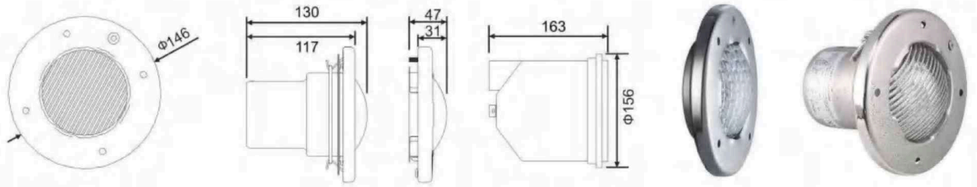
Model	Power (W)	Voltage (V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-LA-LED063JTB	6W	AC/DC 12V	63	SMD LED	Cool white	483	Wall mounted & Wall Recessed
WL-LA-LED063JTW	6W	AC/DC 12V	63	SMD LED	Warm white	483	
WL-LA-LED063JTC	6W	AC/DC 12V	63	SMD LED	RGB	155	



WL-QB

QB series features stainless steel material, non-corrosive and well cooling operation, tempered glass lens increase transparency and compatible to American and European niches. It's very simple to install in concrete pool.





TECHNICAL DATA

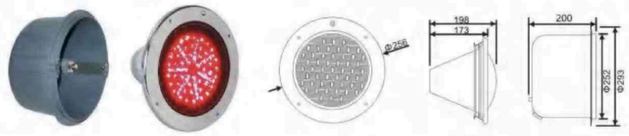
Model	Power (W)	Voltage (V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-QB-LED108JTB	12W	12-20V	108	Wide voltage	White color	2150	Housing type
WL-QB-LED108JTC	12W	12-20V	108	Wide voltage	RGB	1500	Housing type
WL-QBG-LED012PB	12W	12V	12	Resin filled	White color	885	Housing type
WL-QBG-LED012PC	12W	12V	12	Resin filled	RGB	200	Housing type
WL-QBG-LED072TB	6W	12V	72	Resin filled	White color	255	Housing type
WL-QBG-LED072TC	6W	12V	72	Resin filled	RGB	90	Housing type
WL-QBG-LED144TB	12W	12V	144	Resin filled	White color	455	Housing type
WL-QBG-LED144TC	12W	12V	144	Resin filled	RGB	110	Housing type
WL-QB-LED072BB	6W	12V	72	Standard DIP LED	White color	150	Housing type
WL-QB-LED072BC	6W	12V	72	Standard DIP LED	RGB	88	Housing type
WL-QB-LED009PB	9W	12V	9	High power	White color	580	Housing type
WL-QB-LED009PC	9W	12V	9	High power	RGB	130	Housing type
WL-QB-LED012PB	12W	12V	12	High power	White color	885	Housing type
WL-QB-LED012PC	12W	12V	12	High power	RGB	200	Housing type
WL-QBP100	100W	12V	E27 light bulb, tempered glass lens		----	----	Housing type
WL-QBC100	100W	12V	Lamp cup, tempered glass lens		----	----	Housing type

WL-QD



Main features:

- Material: stainless steel, non-corrosive.
- Tempered glass lens increases transparency.
- High efficient, low heat LED board and control board, low power consumption.
- Compatible to American and European niches.
- Different lamp available: LED lamp and E27 bulb.



TECHNICAL DATA

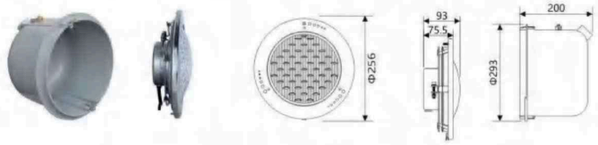
Model	Power(W)	Voltage(V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-QD-LED144BB	12W	12V	144	Standard DIP LED	White color	302	Housing type
WL-QD-LED144BC	12W	12V	144	Standard DIP LED	RGB	168	Housing type
WL-QD-LED252BB	18W	12V	252	Standard DIP LED	White color	530	Housing type
WL-QD-LED252BC	18W	12V	252	Standard DIP LED	RGB	257	Housing type
WL-QDP300	300W	12V	E27 bulb, toughened glass		----	----	Housing type

WL-QG



MILLIAN QG series light is a high power series light, and features stainless steel material with good heat dissipation and tempered glass lens to increase transparency and super brightness. There are different lamp sources available: variable voltage LED lamp, DIP LED lamp and SMD led lamp.

Compatible to American and European niches.



TECHNICAL DATA

Model	Power(W)	Voltage(V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-QGB-LED216JTB	24W	12-20V	216	Wide voltage	White color	1420	Housing type
WL-QGB-LED216JTC	24W	12-20V	216	Wide voltage	RGB	522	Housing type
WL-QGB-LED012PB	12W	12V	12	High power	White color	885	Housing type
WL-QGB-LED012PC	12W	12V	12	High power	RGB	200	Housing type
WL-QGB-LED024PB	24W	12V	24	High power	White color	1300	Housing type
WL-QGB-LED024PC	24W	12V	24	High power	RGB	352	Housing type
WL-QGB-LED036PB	36W	12V	36	High power	White color	1395	Housing type
WL-QGB-LED036PC	36W	12V	36	High power	RGB	410	Housing type
WL-QGB-LED024JTB	24W	12V	72	SMD LED	White color	1240	Housing type
WL-QGB-LED024JTC	24W	12V	72	SMD LED	RGB	375	Housing type

WL-QH/QI



WL-QH



WL-QI

Main features:

- Safety low voltage: AC12V.
- Standard cable: 2.0meter.
- Waterproof standard: IP68.
- Color: cool white, warm white, RGB and single blue.
- RGB mode features 19 pre-programmed lighting patterns.
- QHB/QIB: for concrete pool with housing.
- QHT/QIT: for fiberglass pool, stainless steel pool.

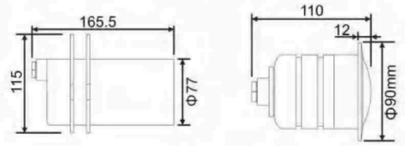




Concrete Niche



Fibreglass Niche



TECHNICAL DATA

Model	Power(W)	Voltage(V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-QHB-LED036HB	3W	12V	36	High quality DIP LED	White color	95	Concrete pool
WL-QHB-LED036HC	3W	12V	36	High quality DIP LED	RGB	42	Concrete pool
WL-QHT-LED036HB	3W	12V	36	High quality DIP LED	White color	95	Fiberglass pool
WL-QHT-LED036HC	3W	12V	36	High quality DIP LED	RGB	42	Fiberglass pool

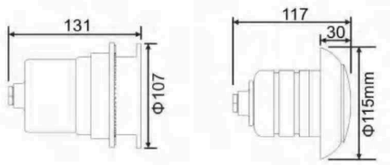




Concrete Niche



Fibreglass Niche



TECHNICAL DATA

Model	Power(W)	Voltage(V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-QIB-LED072HB	6W	12V	72	High quality DIP LED	White color	188	Concrete pool
WL-QIB-LED072HC	6W	12V	72	High quality DIP LED	RGB	70	Concrete pool
WL-QIT-LED072HB	6W	12V	72	High quality DIP LED	White color	188	Fiberglass pool
WL-QIT-LED072HC	6W	12V	72	High quality DIP LED	RGB	70	Fiberglass pool

WL-QJ

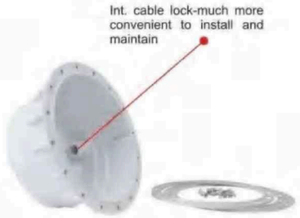




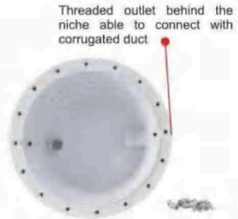
Built-in remote control system let you to manage your pool more convenient and easily.
(Optional)

Main features:

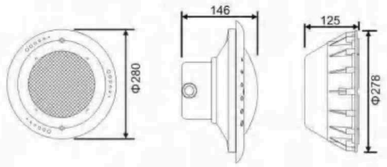
- Standard PAR56 lamp install into standard PAR56 niche of QJ series underwater light, with high brightness and strong luminosity.
- Curved PC lens expands the light refraction, and the crystal lens brings high brightness.
- Different LED lamps in option.
- Compatible with all pools



for liner pool



for concrete pool



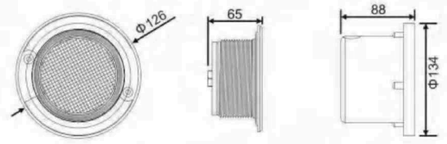
TECHNICAL DATA

Model	Power (W)	Voltage (V)	LED QTY	Light source	Color	Lumination (lux)	Installation type	Optional remote control
WL-QJ-LED144BB	12W	12V	144	Standard DIP LED	White color	302	√ Housing type for concrete pool with niche √ For fiberglass pool installation √ For different liner pool installation	×
WL-QJ-LED144BC	12W	12V	144	Standard DIP LED	RGB	168		√
WL-QJ-LED252BB	18W	12V	252	Standard DIP LED	White color	530		×
WL-QJ-LED252BC	18W	12V	252	Standard DIP LED	RGB	257		√
WL-QJ-LED018JTB	18W	12V	54	SMD LED	White color	1185		×
WL-QJ-LED018JTC	18W	12V	54	SMD LED	RGB	245		√
WL-QJ-LED024JTB	24W	12V	72	SMD LED	White color	1240		×
WL-QJ-LED024JTC	24W	12V	72	SMD LED	RGB	375		√
WL-QJ-LED162JTB	18W	12-20V	162	Wide voltage	White color	1500		×
WL-QJ-LED162JTC	18W	12-20V	162	Wide voltage	RGB	970		×
WL-QJ-LED216JTB	24W	12-20V	216	Wide voltage	White color	2150		×
WL-QJ-LED216JTC	24W	12-20V	216	Wide voltage	RGB	1500		×
WL-QJ-LED216HTB	35W	12-20V	216	Wide voltage	White color	2580		×
WL-QJ-LED216HTC	35W	12-20V	216	Wide voltage	RGB	1800		×
WL-QJ-LED16PC	18W	DC12V	16	SMD LED	RGBW	1380		×
WL-QJP300	300W	12V	----	PAR56 halogen lamp	----	----		×

WL-QMC/QNV

Main features:

- Safety low voltage: AC12V.
- Standard cable: 2.0meter.
- Waterproof standard: IP68.
- Color: cool white, warm white, RGB and single blue.
- RGB mode features 19 pre-programmed lighting patterns.
- Installation mode: Housing type and above ground pool.





WL-QMC

Concrete pool light



WL-QNV

Fiberglass pool

TECHNICAL DATA

Model	Power(W)	Voltage(V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-QMC-LED036HB	3W	12V	36	High quality DIP LED	White color	95	Concrete pool
WL-QMC-LED036HC	3W	12V	36	High quality DIP LED	RGB	42	Concrete pool
WL-QMC-LED072HB	6W	12V	72	High quality DIP LED	White color	188	Concrete pool
WL-QMC-LED072HC	6W	12V	72	High quality DIP LED	RGB	70	Concrete pool
WL-QNV-LED036HB	3W	12V	36	High quality DIP LED	White color	95	Fiberglass pool
WL-QNV-LED036HC	3W	12V	36	High quality DIP LED	RGB	42	Fiberglass pool
WL-QNV-LED072HB	6W	12V	72	High quality DIP LED	White color	188	Fiberglass pool
WL-QNV-LED072HC	6W	12V	72	High quality DIP LED	RGB	70	Fiberglass pool

WL-QQC

QQC mode light is an ultra-thin series light with niche for concrete pool installation. Its smooth front plate provides simplicity yet elegant.

Main features:

- Material: ABS body+stainless steel base.
- Standard cable: 2.0meters.
- Waterproof: IP68.
- Installation mode: Housing type for concrete pool.
- Color: cool white, warm white, RGB and single blue.
- RGB mode features 19 pre-programmed lighting patterns.
- Color temperature: cool white 6000K, warm white 3000K.



TECHNICAL DATA

Model	Power(W)	Voltage(V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-QQC-LED012PB	12W	12V	12	High power	White color	885	Housing type
WL-QQC-LED012PC	12W	12V	12	High power	RGB	200	Housing type
WL-QQC-LED024PB	24W	12V	24	High power	White color	1300	Housing type
WL-QQC-LED024PC	24W	12V	24	High power	RGB	352	Housing type
WL-QQC-LED036PB	36W	12V	36	High power	White color	1395	Housing type
WL-QQC-LED036PC	36W	12V	36	High power	RGB	410	Housing type

WL-QSG

QSG series is stainless steel LED light with simplicity and elegant design, anti-corrosive and well cooling operation. This ultra thin niche is designed to fit any pool structure with a thin concrete wall.





Very convenient wiring

Features:

- Low voltage: AC12V & AC12-20V(variable voltage).
- Low power consumption, low heat while working.
- High brightness, strong light transmission.
- IP 68 waterproof standard.

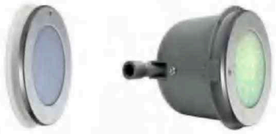
Classic and ultra niches are available to mount QSG light.

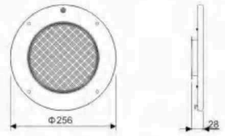


Ultra thin niche (standard)



Classic niche (Optional)





TECHNICAL DATA

Model	Power(W)	Voltage(V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-QSG-LED072TB	6W	12V	72	Resin filled	White color	255	Housing type
WL-QSG-LED072TC	6W	12V	72	Resin filled	RGB	90	Housing type
WL-QSG-LED144TB	12W	12V	144	Resin filled	White color	455	Housing type
WL-QSG-LED144TC	12W	12V	144	Resin filled	RGB	110	Housing type
WL-QSG-LED252TB	18W	12V	252	Resin filled	White	885	Housing type
WL-QSG-LED252TC	18W	12V	252	Resin filled	RGB	255	Housing type
WL-QSG-LED324TB	24W	12V	324	Resin filled	White	1075	Housing type
WL-QSG-LED324TC	24W	12V	324	Resin filled	RGB	355	Housing type
WL-QSG-LED162JTB	18W	12-20V	162	Resin filled	White color	1370	Housing type
WL-QSG-LED162JTC	18W	12-20V	162	Resin filled	RGB	880	Housing type
WL-QSG-LED216JTB	24W	12-20V	216	Resin filled	White color	1950	Housing type
WL-QSG-LED216JTC	24W	12-20V	216	Resin filled	RGB	1300	Housing type

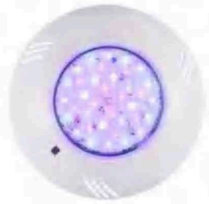
WL-QSG.2 Non-resin filled LED

Model	Power(W)	Voltage(V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-QSG.2-LED162JTB	18W	12-20V	162	Wide voltage	White color	1500	Housing type
WL-QSG.2-LED162JTC	18W	12-20V	162	Wide voltage	RGB	970	Housing type
WL-QSG.2-LED216JTB	24W	12-20V	216	Wide voltage	White color	2150	Housing type
WL-QSG.2-LED216JTC	24W	12-20V	216	Wide voltage	RGB	1500	Housing type
WL-QSG.2-LED216HTB	35W	12-20V	216	Wide voltage	White color	2580	Housing type
WL-QSG.2-LED216HTC	35W	12-20V	216	Wide voltage	RGB	1800	Housing type

WL-BPB/BPC



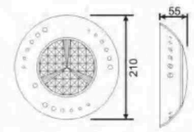
WL-BPB

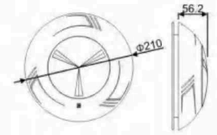


WL-BPC

Main features:

- Material: anti-UV ABS.
- Safety low voltage: AC12V.
- Installation mode: wall-mounted type.
- Color: cool white, warm white, RGB and single blue.
- Color temperature: cool white 6000K, warm white: 3000K.





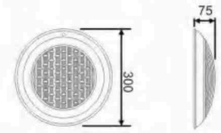
TECHNICAL DATA

Model	Power(W)	Voltage(V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-BPB-LED072BB	6W	12V	72	Standard DIP LED	White color	150	Wall mounted type
WL-BPB-LED072BC	6W	12V	72	Standard DIP LED	RGB	88	Wall mounted type
WL-BPC-LED006JTB	6W	12V	18	SMD LED	White color	485	Wall mounted type
WL-BPC-LED006JTC	6W	12V	18	SMD LED	RGB	85	Wall mounted type
WL-BPC-LED012JTB	12W	12V	36	SMD LED	White color	903	Wall mounted type
WL-BPC-LED012JTC	12W	12V	36	SMD LED	RGB	215	Wall mounted type



WL-PA

Millian PA series lights features stainless steel material with gliding and elegant design and good heat radiation. Nicheless flat light directly to mount to pool wall with bracket plate, simple and convenient. PC and tempered glass lens are available to select in this series lights.



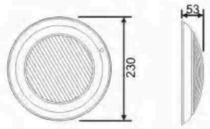
TECHNICAL DATA

Model	Power(W)	Voltage(V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-PA-LED252BB	18W	12V	252	Standard DIP LED	White color	530	Wall mounted type
WL-PA-LED252BC	18W	12V	252	Standard DIP LED	RGB	257	Wall mounted type
WL-PA-LED012PB	12W	12V	12	High power	White color	885	Wall mounted type
WL-PA-LED012PC	12W	12V	12	High power	RGB	200	Wall mounted type
WL-PA-LED024PB	24W	12V	24	High power	White color	1300	Wall mounted type
WL-PA-LED024PC	24W	12V	24	High power	RGB	352	Wall mounted type
WL-PA-LED036PB	36W	12V	36	High power	White color	1395	Wall mounted type
WL-PA-LED036PC	36W	12V	36	High power	RGB	410	Wall mounted type
WL-BPA100	100W	12V	Lamp bead and toughened glass lens		----	----	Wall mounted type
WL-BPA150	150W	12V	Lamp bead and toughened glass lens		----	----	Wall mounted type
WL-BPC150	150W	12V	Lamp bead and pc lens		----	----	Wall mounted type

WL-PE

Main features:

- Material: Stainless steel.
- Lens: PC.
- Safety low voltge: AC12V.
- Installation mode: wall-mounted type.
- Color: cool white, warm white, RGB and single blue.
- Cable: 2.0meters.





TECHNICAL DATA

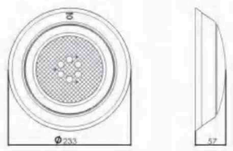
Model	Power(W)	Voltage(V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-PE-LED072BB	6W	12V	72	Standard DIP LED	White color	150	Wall mounted type
WL-PE-LED072BC	6W	12V	72	Standard DIP LED	RGB	88	Wall mounted type
WL-PE-LED144BB	12W	12V	144	Standard DIP LED	White color	302	Wall mounted type
WL-PE-LED144BC	12W	12V	144	Standard DIP LED	RGB	168	Wall mounted type
WL-PE-LED252BB	18W	12V	252	Standard DIP LED	White color	500	Wall mounted type
WL-PE-LED252BC	18W	12V	252	Standard DIP LED	RGB	245	Wall mounted type
WL-PE-LED006JTB	6W	12V	18	SMD LED	White color	485	Wall mounted type
WL-PE-LED006JTC	6W	12V	18	SMD LED	RGB	85	Wall mounted type
WL-PE-LED012JTB	12W	12V	36	SMD LED	White color	903	Wall mounted type
WL-PE-LED012JTC	12W	12V	36	SMD LED	RGB	215	Wall mounted type
WL-BPE075	75W	12V	Lamp bead and PC lens		----	----	Wall mounted type
WL-BPE100	100W	12V	Lamp bead and PC lens		----	----	Wall mounted type

WL-PE

Main features:

- Stainless steel, non-corrosion and well cooling operation.
- Light source: 12W SMD led light+ 6W high power LED light.
- No flicker, high purify, soft light, no glare.
- High brightness (high lumen), strong light transmission.
- Low power consumption, low heat while working.
- Wall-mounted type, easy to install.
- Safety low voltage: AC 12-20V.
- IP68 waterproof standard.
- Color: cool white, warm white, RGB mixing





TECHNICAL DATA

Model	Power(W)	Voltage(V)	LED QTY	Light source	Color	Lumination (lux)
WL-PE-LED87JTBW	18W	12-20V	87	81pcs SMD leds white color, 6pcs high power leds white color	White color	1500
WL-PE-LED87JTCW	18W	12-20V	87	81pcs SMD leds RGB color, 6pcs high power leds white color	RGB+white	900

WL-PS/PSC



Remote control
(optional)



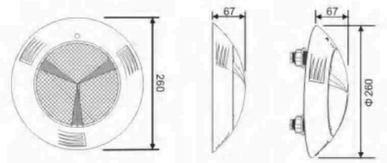
WL-PS



WL-PSC

Main feature:

- Flat LED light, wall-mounted, easy to install.
- With mounting accessories able to install in above ground pool.
- Safety low voltage: AC12V/AC12-20V.
- Different lamp source bring you different effect.
- The built-in remote control allows you to manage your swimming pool more conveniently and easily.
- Waterproof standard: IP68.





mounting part for above ground pool

TECHNICAL DATA

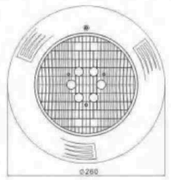
Model	Power (W)	Voltage (V)	LED QTY	Light source	Color	Lumination (lux)	Installation type	Optional remote control
WL-PS-LED216JTB	24W	12V-20V	216	Wide voltage	White color	2150	Wall mounted type & Above ground pool	×
WL-PS-LED216JTC	24W	12V-20V	216	Wide voltage	RGB	1500	Wall mounted type & Above ground pool	×
WL-PSC-LED216JTB	24W	12V-20V	216	Wide voltage	White color	2150	Wall mounted type & Above ground pool	×
WL-PSC-LED216JTC	24W	12V-20V	216	Wide voltage	RGB	1500	Wall mounted type & Above ground pool	×
WL-PS-LED072BB	6W	12V	72	Standard DIP LED	White color	150	Wall mounted type & Above ground pool	×
WL-PS-LED072BC	6W	12V	72	Standard DIP LED	RGB	88	Wall mounted type & Above ground pool	√
WL-PS-LED144BB	12W	12V	144	Standard DIP LED	White color	302	Wall mounted type & Above ground pool	×
WL-PS-LED144BC	12W	12V	144	Standard DIP LED	RGB	168	Wall mounted type & Above ground pool	√
WL-PS-LED252BB	18W	12V	252	Standard DIP LED	White color	530	Wall mounted type & Above ground pool	×
WL-PS-LED252BC	18W	12V	252	Standard DIP LED	RGB	257	Wall mounted type & Above ground pool	√
WL-PS-LED018JTB	18W	12V	54	SMD LED	White color	1185	Wall mounted type & Above ground pool	×
WL-PS-LED018JTC	18W	12V	54	SMD LED	RGB	245	Wall mounted type & Above ground pool	√
WL-PSC-LED018JTB	18W	12V	54	SMD LED	White color	1185	Wall mounted type & Above ground pool	×
WL-PSC-LED018JTC	18W	12V	54	SMD LED	RGB	245	Wall mounted type & Above ground pool	√
WL-BPS075	75W	12V	Lamp bead		----	----	Wall mounted type & Above ground pool	----
WL-BPS100	100W	12V	Lamp bead		----	----	Wall mounted type & Above ground pool	----

WL-PS

Main feature:

- Light source: 18W SMD led light+ 6W high power LED light.
- No flicker, high purify, soft light, no glare.
- High brightness (high lumen), strong light transmission.
- Low power consumption, low heat while working.
- Wall-mounted type, easy to install.
- Safety low voltage: AC 12-20V.
- IP68 waterproof standard.
- Color: cool white, warm white, RGB mixing







TECHNICAL DATA

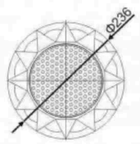
Model	Power(W)	Voltage(V)	LED QTY	Light source	Color	Lumination (lux)
WL-PS-LED168JTBW	24W	12-20V	168	162pcs SMD leds white color, 6pcs high power leds white color	White color	2100
WL-PS-LED168JTCW	24W	12-20V	168	162pcs SMD leds RGB color, 6pcs high power leds white color	RGB+white	1400

WL-PQ

Main features:

- Material: ABS face ring+stainless steel base.(It's special made of stainless steel base much better heat radiation for high power lamp than other models.)
- Lamp source: big power led lamp.
- Installation mode: wall-mounted type .
- Color: cool white, warm white, RGB and single blue.
- RGB mode features 19 pre-programmed lighting patterns.
- Color temperature: cool white 6000K, warm white: 3000K.







"PQ" SERIES LED FLAT UNDERWATER LIGHTS

Model	Power(W)	Voltage(V)	LED QTY	Light source	Color	Lumination (lux)	Installation type
WL-PQ-LED012PB	12W	12V	12	High power	White color	885	Wall mounted type
WL-PQ-LED012PC	12W	12V	12	High power	RGB	200	Wall mounted type
WL-PQ-LED024PB	24W	12V	24	High power	White color	1300	Wall mounted type
WL-PQ-LED024PC	24W	12V	24	High power	RGB	352	Wall mounted type
WL-PQ-LED036PB	36W	12V	36	High power	White color	1395	Wall mounted type
WL-PQ-LED036PC	36W	12V	36	High power	RGB	410	Wall mounted type

WL-PX

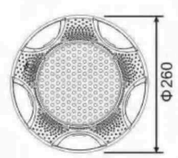


Main feature:

- Flat LED light, wall-mounted, easy to install.
- With mounting accessories able to install in above ground pool.
- Safety low voltage: AC12V/AC12-20V.
- Different lamp source bring you different effect.
- The built-in remote control allows you to manage your swimming pool more conveniently and easily.
- Waterproof standard: IP68.



Built-in remote control system let you to manage your pool more convenient and easily.





TECHNICAL DATA

Model	Power (W)	Voltage(V)	LED QTY	Light source	Color	Lumination (lux)	Installation type	Optional remote control
WL-PX-LED216JTB	24W	12V-20V	216	Wide voltage	White color	2150	Wall mounted type	×
WL-PX-LED216JTC	24W	12V-20V	216	Wide voltage	RGB	1500	Wall mounted type	×
WL-PX-LED072BB	6W	12V	72	Standard DIP LED	White color	150	Wall mounted type	×
WL-PX-LED072BC	6W	12V	72	Standard DIP LED	RGB	88	Wall mounted type	×
WL-PX-LED144BB	12W	12V	144	Standard DIP LED	White color	302	Wall mounted type	×
WL-PX-LED144BC	12W	12V	144	Standard DIP LED	RGB	168	Wall mounted type	×
WL-PX-LED252BB	18W	12V	252	Standard DIP LED	White color	530	Wall mounted type	×
WL-PX-LED252BC	18W	12V	252	Standard DIP LED	RGB	257	Wall mounted type	×
WL-PX-LED018JTB	18W	12V	54	SMD LED	White color	1185	Wall mounted type	×
WL-PX-LED018JTC	18W	12V	54	SMD LED	RGB	245	Wall mounted type	√

WL-PAR56

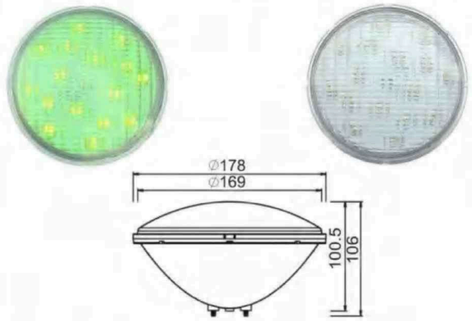
Main features:

- Standard PAR56 lamp install into standard PAR56 niche.
- Curved PC lens expands the light refraction, and the crystal lens brings high brightness.
- Different LED lamps in option.
- Monochrome and multicolor are available.





Remote control (optional)



RGB and RGBW

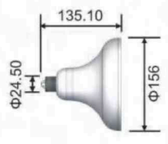
- Common RGB LED bulbs are made by three colours of red, green and blue and create gradients, blinks and blending modes.
- RGBW contains four colors of red, green, blue and white, and expands to milions colours and changing modes to create natural cool white, warm white and infinity other colours

LED PAR56 BULBS

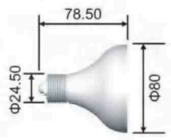
Model	Power (W)	Voltage (V)	LED QTY	Light source	Color	Lumination (lux)	Optional: remote control
WL-PAR-LED252BB	18W	12V	252	Standard DIP LED	White color	530	×
WL-PAR-LED252BC	18W	12V	252	Standard DIP LED	RGB	257	√
WL-PAR-LED012PB	12W	12V	12	High power LED	White color	885	×
WL-PAR-LED012PC	12W	12V	12	High power LED	RGB	200	×
WL-PAR-LED024PB	24W	12V	24	High power LED	White color	1300	×
WL-PAR-LED024PC	24W	12V	24	High power LED	RGB	352	×
WL-PAR-LED018JTB	18W	12V	54	SMD LED	White color	1185	×
WL-PAR-LED018JTC	18W	12V	54	SMD LED	RGB	245	√
WL-PAR-LED024JTB	24W	12V	72	SMD LED	White color	1240	×
WL-PAR-LED024JTC	24W	12V	72	SMD LED	RGB	375	√
WL-PAR-LED162JTB	18W	12V-20V	162	Wide voltage	White color	1500	×
WL-PAR-LED162JTC	18W	12V-20V	162	Wide voltage	RGB	970	×
WL-PAR-LED216JTB	24W	12V-20V	216	Wide voltage	White color	2150	×
WL-PAR-LED216JTC	24W	12V-20V	216	Wide voltage	RGB	1500	×
WL-PAR-LED216HTB	35W	12V-20V	216	Wide voltage	White color	2580	×
WL-PAR-LED216HTC	35W	12V-20V	216	Wide voltage	RGB	1800	×
WL-PAR-LED16PC	18W	DC12V	16	SMD LED	RGBW	1380	×

E27 LED LIGHT BULBS









E27 LED LIGHT BULBS

Model	Description	Power (W)	Voltage (V)	Lumination (lux)	Installation type
WL-LED072	Standard size E27 lamp with 72 leds, able to replace traditional 100W/300W incandescent lamp of light with niche	6W	12V	150 (Cool/warm white) 88 (RGB)	Housing type
WL-LED144	Standard size E27 lamp with 144 leds, able to replace traditional 100W/300W incandescent lamp of light with niche	12W	12V	302 (Cool/warm white) 168 (RGB)	Housing type
WL-LED252	Standard size E27 lamp with 252 leds, able to replace traditional 100W/300W incandescent lamp of light with niche	18W	12V	530 (Cool/warm white) 257 (RGB)	Housing type

TRANSFORMER







WATER-PROOF TRANSFORMER FOR POOL LIGHTS

Model	Description	Power (W)	Waterproof standard
WL-FSBY50	Transformer 50W, input AC110V/220V, output AC12V	50W	IP44/IP68
WL-FSBY100	Transformer 100W, input AC110V/220V, output AC12V	100W	IP44/IP68
WL-FSBY150	Transformer 150W, input AC110V/220V, output AC12V	150W	IP44/IP68
WL-FSBY200	Transformer 200W, input AC110V/220V, output AC12V	200W	IP44/IP68
WL-FSBY250	Transformer 250W, input AC110V/220V, output AC12V	250W	IP44/IP68
WL-FSBY300	Transformer 300W, input AC110V/220V, output AC12V	300W	IP44/IP68
WL-FSBY400	Transformer 400W, input AC110V/220V, output AC12V	400W	IP44/IP68
WL-FSBY600	Transformer 600W, input AC110V/220V, output AC12V	600W	IP44/IP68

LIGHT CONTROL BOX

Features:

- All of the AC12V and AC12-20V input LED lights can be controlled by this system.
- If the system is installed out-of-doors, a housing must be provided to prevent rain and sunlight .
- It is also better to keep the system away from electromagnetism radicalization.
- One system can control the LED lights with total power not more than 100W.
- Electrical overload & leakage protection.
- Easy and simple operation with 4 keys.



Remote Control System



WL-LED-YAQ01(With Transformer)



WL-LED-YAQ02(No Transformer)

LIGHT CONTROL BOX

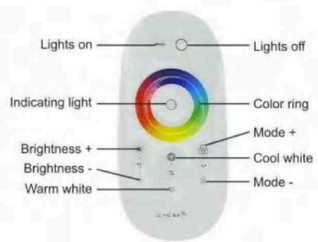
Model	Description	Remote controller	Remote control area
WL-LED-YAQ01	Control box with transformer 100W, input 110-220V, output AC12V	With	100 meters
WL-LED-YAQ02	Control box without transformer, input AC12V, output AC12V	With	100 meters

RGBW TOUCH CONTROLLER

This control system uses the advanced microcomputer technology to easily control the LED underwater lights, with thousands colors and 12 automatic change modes to choose from. With 2.4G wireless high frequency remote control technology, it has the characteristics of lower power consumption, long distance transmission, and strong anti-interference capability, high speed telecommunication, etc. All buttons are with sensitive touch function to achieve color changing and brightness dimming.



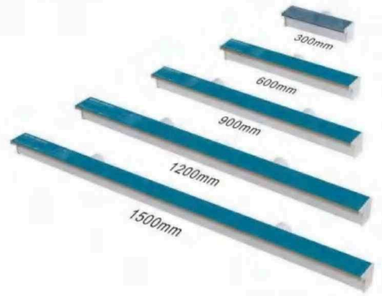
- Model: WL-LED-YAQ06.
- Input power: AC100-230V/47-63Hz/1200mA.
- Output power: DC12V/5A/60W.
- Effective control of distance : 30 meters.
- Programs: 12 modes.



WL-WDA

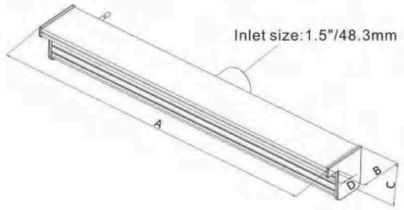


The water descent are suitable for installation on finished walls and new construction walls.
Product design unique, novel, beautiful; with the optional RGB LED strip, the unit provides you colourful waterfall, which will bring elegance and visual interest to your life; Efficient to hide outlet, to a 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



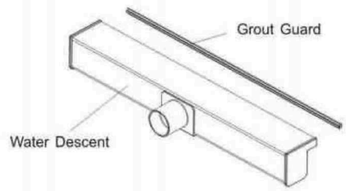
Control system with transformer

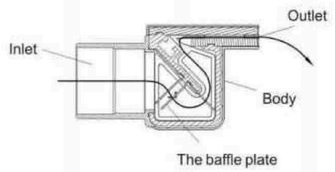

Transformer


Control board+controller

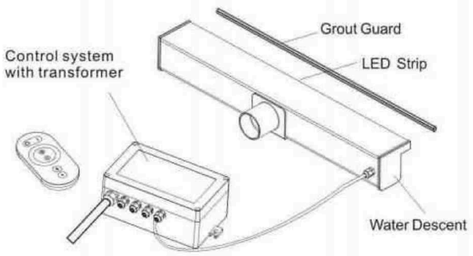
Specification:

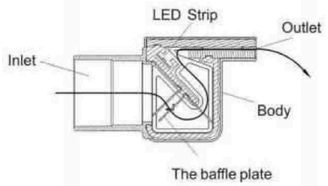
- Water descent



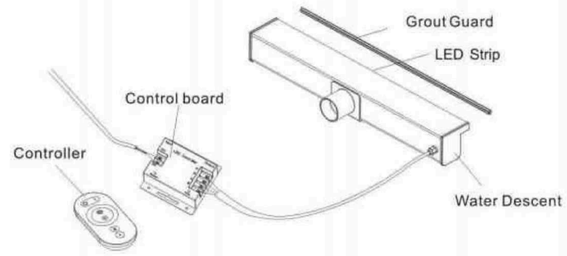


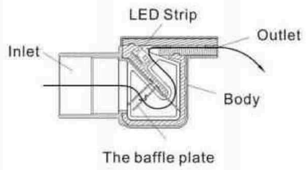
- Water descent with control system & transformer





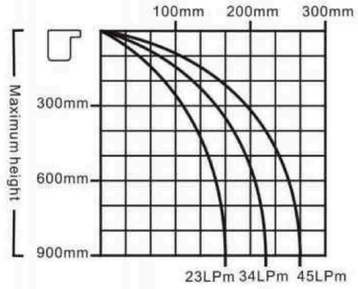
- Water descent with control board+controller



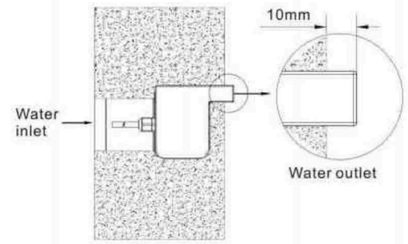


Note: Must be mounted in a waterproof enclosure.

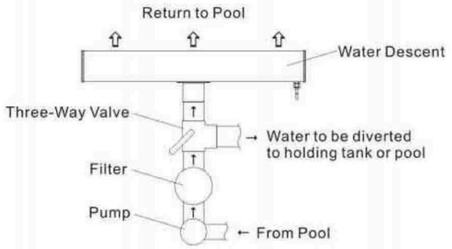
Approximate projection of sheet of water per 300mm of waterfall length

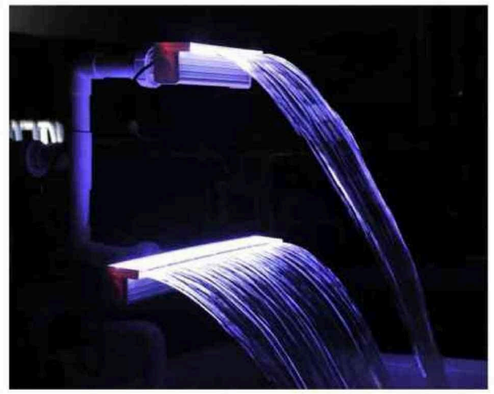


Waterfall installation icon applies to existing wall styles

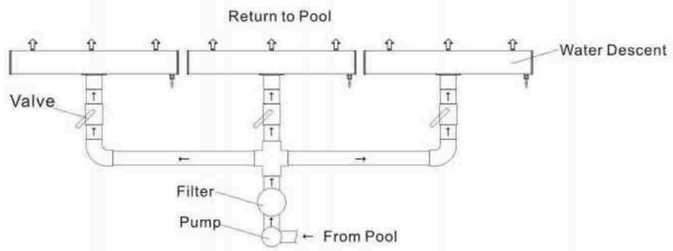


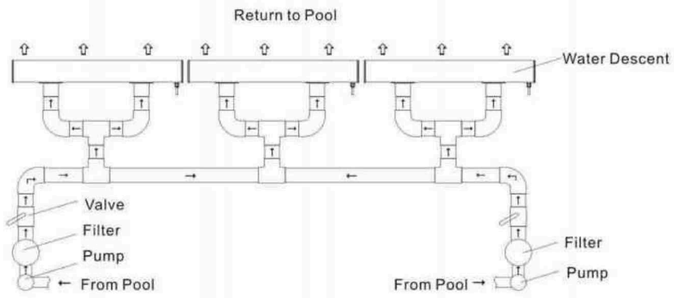
Installation for piping single unit with ball valve





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

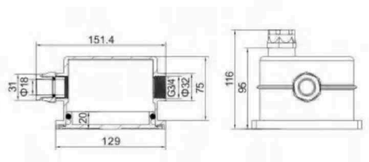




UNDERWATER LIGHTS

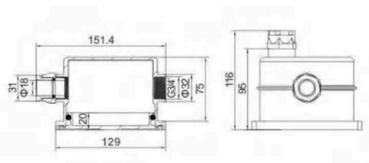
JUNCTION BOX & FLEXIBLE HOSE





Products	Junction Box
Model	PA15861
Colour	White color
Material	ABS





Products	Junction Box
Model	PA30825
Colour	White color
Material	ABS







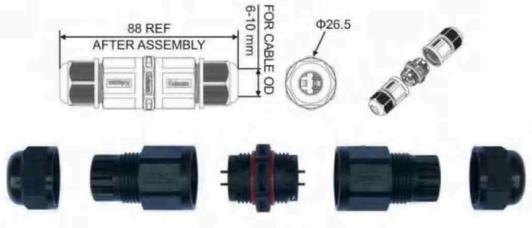
Products	Flexible hose
Model	PA00394
Colour	Gray
Material	ABS
Length	1meter
Connection	3/4" ext. thread

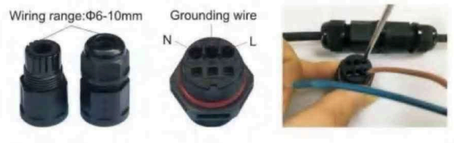
WATERPROOF WIRE CONNECTORS

- Model: LS-M20-10
- Description: 2-ways 3-pole wire connector, Cage spring type.
- Cable size: Ø6-10mm, including live wire, neutral wire and earth wire.
- Rated voltage: 300V.
- Rated current: 10A.
- Overvoltage category: III.
- Insulation resistance: ≥ 100MΩ.
- Operating temperature: -40℃-125℃.
- IP degree protection: IP67/IP68.

Wide Usability: Suitable for fast connection to the outdoor lighting, underwater lighting, underfloor heating, etc. Can be used to repair and extend power cables.







WATERPROOF WIRE CONNECTORS

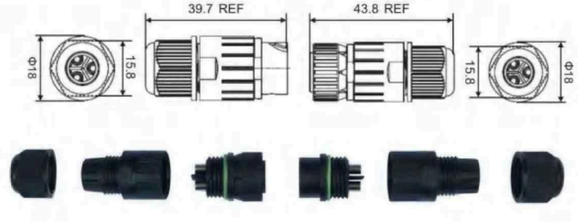
- Model: LS-YN1200WN-P.
- Description: 2-ways 2-pin wire connector, plug and play.
- Cable size: Ø3.5-5.5mm, including live wire, neutral wire and earth wire.
- Rated voltage: 230V/AC/DC.
- Rated current: 13A.
- IP degree protection: IP67.

Wide Usability: Suitable for fast connection to the outdoor lighting, underwater lighting, underfloor heating, etc. Can be used to repair and extend power cables.











Disinfecting Equipment



HQ/SQ
SALT CHLORINATOR

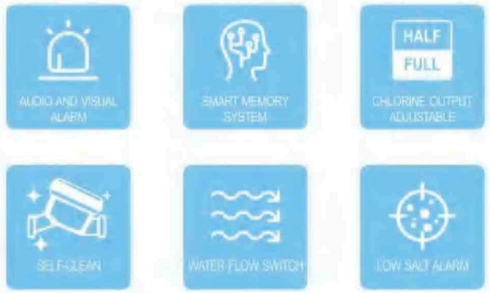
SR SALT CHLORINATOR

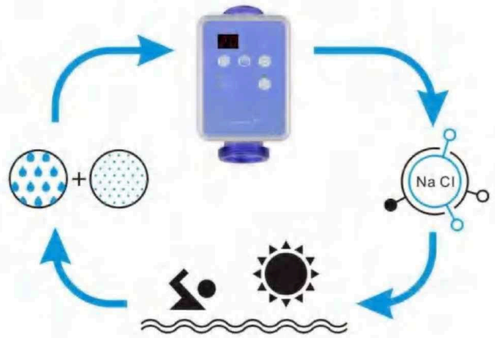
DISINFECTING EQUIPMENT

SR series salt chlorinator is specially designed for small pools. It can't be easier to realize chlorine disinfecting and micro ozone disinfecting by adding salt to swimming pools which can turn into active chlorine and active oxygen. What's more, this salt chlorinator is easy to maintain with the titanium cells' self-cleaning function and easy-control panel. Easily running a safe and clean swimming pool with SR series salt chlorinator. You will never have trouble of traditional chlorine disinfection.



IPX4









Feature:

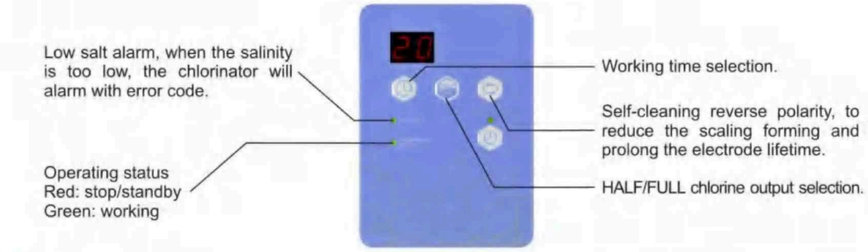
- 2 types connections available: 50mm/1.5" unions must be sealed with PVC cement or 32/38mm flexible hose locked with stainless steel collars. (stainless steel collar is optional)
- Integrated water flow switch, water temperature sensor and salinity monitor, which is easy to monitor the water quality.
- Preset multiple intelligent operation modes, one-button switching, simple operation, time and worry saving.
- It is easy to maintain and alerts abnormalities with the built-in warning function.
- The unique housing design with transparent material is easy to observe the operation.



D50mm/1.5"connection



32/38mm connection



Advantages:

Self-cleaning
Self-cleaning can prevent calcium from accumulating and can be set to reverse polarity every 4, 8, or 12 hours ,which can extend the life of the titanium plates.

Water Temperature Monitoring
It warns if the water temperature is more than 45℃(113°F)or lower than 10°C(50°F). It will shut down while more than 45℃.

Salinity Monitoring
It warns if the salinity is too low to maintain effective disinfection.

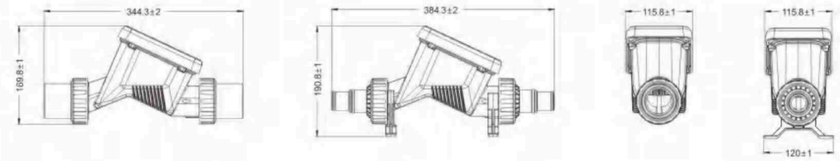
Chlorine Production
One key to chose HALF/FULL chlorine output.

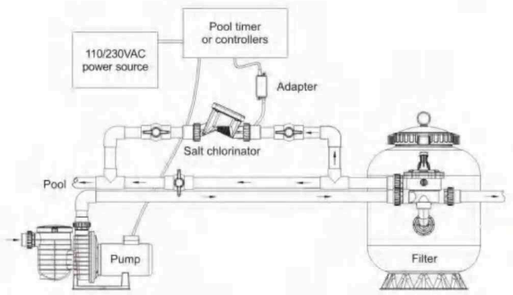
Memory
The salt chlorinator turns on automatically and reverses the polarity after powering on. At the same time, it can revert to the settings of the last operation.

Operation Time Setting
You can set the operation time according to different pools to save energy. Working time can be set by manual.

Restore Default Settings
Back to default setting by pressing the restore button.

Error Alarm For Troubleshooting
The salt chlorinator automatically shuts down in case of abnormalities due to the protection function of voltage, current and water flow. It extends the life of the salt chlorinators.







Model	Power input	Power output	Chlorine production	Ideal salinity	Recommended pool volume(m^3)
SR050	AC100-240V 50Hz/60Hz	DC24V	5g/h	2700-4500PPM	⩽22m^3
SR075	AC100-240V 50Hz/60Hz	DC24V	7.5g/h	2700-4500PPM	⩽34m^3
SR100	AC100-240V 50Hz/60Hz	DC24V	10g/h	2700-4500PPM	⩽45m^3

Note: • In practice,the local pool standards and professional habits should be considered,and the adjusting allowance of 20-30% should be reserved.
• For outdoor pool,cyanuric acid(stabilizer) should be added to pool water,the ideal range for cyanuric acid is 25-50ppm when used.

HQ/SQ SALT CHLORINATOR

DISINFECTING EQUIPMENT

HQ/SQ salt chlorinator improves your pool water quality by using harmless table salt, instead of using harsh chemicals. It is reliable,low maintenance, much more safety to health. Easy and simple programming and fully automatic operation lets you enjoy a relaxed swimming time.

Salt chlorinators are an alternative means of sanitizing your pool with chlorine by electrolysis process. The electrolysis process is achieved by passing the salty water through an electrolytic cell, sodium chlorine in the water is converted into chlorine to achieve pool water disinfection.



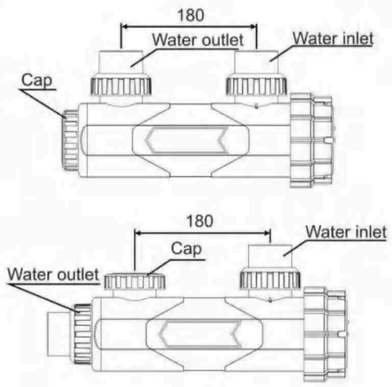
Features:

- Self clean function: by reverse the polarity automatically, which prevents calcium from accumulating and therefore prolong the cell's lifetime.
- Six different chlorine output control: easy adjustment of chlorine level, to meet demand of different time, this will save energy and environment friendly.
- HQ salt chlorinators are equipped with timer for pump and timer for underwater light.
- Smart cooling: the cooling intensity can be adjustment according to the temperature inside the control box.
- Protect from no adequate water causing the generator or cell destroyed.
- Overheat protection: prolong the control system life span.
- Alarm system: automatic protection for your system and pool if salt level is too low.
- Temperature sensor could be changed separately, reduce the maintenance cost.



HQ salt chlorinator control panel

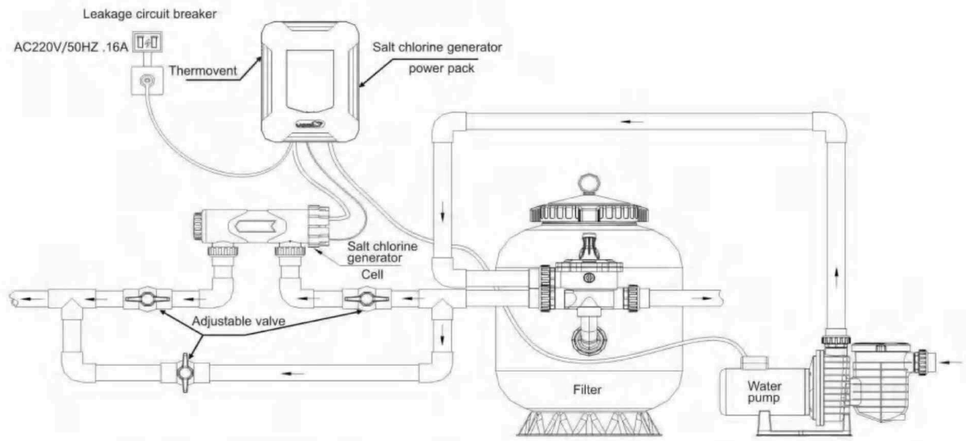
Humanized design of two outlets





Titanium panels with fast, efficient and stable chlorine output

- Titanium panels with coating enable to generate chlorine fast, efficiently and stably.
- Cell housing is made of high strength and Corrosion-resistant PC, which prolong the life time.
- Detachable titanium panels are easy to install, clean and daily maintain.
- Two optional outlets make installation more convenient.



HQ salt chlorinators are equipped with timers for pump and underwater light.

Model	Electrolytic cell dimensions LxWxH (mm)	Max Chlorine production (g/h)	Voltage (V)	Total power (W)	Pump power (Max)	Light power (Max)	Max Pool Volume (m^3)
HQ 20	365x260x140	16	AC220~240V	1.70kW	1.5kW/6.8A	AC12V/100W	68
HQ 30	365x260x140	25	AC220~240V	1.75kW	1.5kW/6.8A	AC12V/100W	105
HQ 40	365x260x140	33	AC220~240V	1.80kW	1.5kW/6.8A	AC12V/100W	140
HQ 50	365x260x140	42	AC220~240V	1.85kW	1.5kW/6.8A	AC12V/100W	175
SQ 20	365x260x140	16	AC220~240V	0.25kW	----	----	68
SQ 30	365x260x140	25	AC220~240V	0.25kW	----	----	105
SQ 40	365x260x140	33	AC220~240V	0.25kW	----	----	140
SQ 50	365x260x140	42	AC220~240V	0.25kW	----	----	175

Note:

- In practice,the local pool standards and professional habits should be considered, and the adjusting allowance of 20-30% should be reserved.
- For outdoor pool, cyanuric acid(stabilizer) should be added to pool water, the ideal range for cyanuric acid is 25-50ppm when used.

EC SALT CHLORINE GENERATORS

DISINFECTING EQUIPMENT

The **MILLIAN** EC Series Salt Chlorinator applied advanced micro-computer technology and customer oriented design, to provide the most energy saving and environmental friendly method to sanitize small and medium pools. To achieve this simple, smart and safe chlorine production, all the chlorinator require is only salt.





Featured Highlights:

•Simple

Easy installation, simple operation and maintenance.

•Smart

Smart adjustment

Chlorine output is adjustable from 20% to 100% by simply pressing two buttons, satisfying different needs for different pools.

Smart cleaning

Self-cleaning function by reversing the polarity automatically, which prevents calcium from accumulating and therefore prolong the cell's lifetime.

Smart alarm

Fault auto alarm with error code, which is easy to find corresponding solutions.

Smart protection

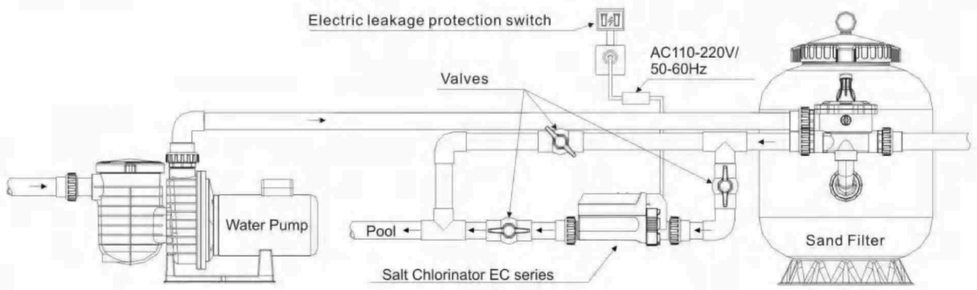
When the water temperature is too high or too low, the chlorinator will automatically stop running, in order to protect the unit and prolong the cell's life. The integrated sensors in the cell also ensure that water is adequate for safe operation.

Smart memory system

Each time the chlorinator restarts, it can automatically initiate the last work status,with this smart memory function.

•Safe

Safe disinfection,safe water quality,and safe working voltage



Model	Size (mm)	Working Voltage (V)	Working Current (A)	Max Chlorine production(g/h)	Dia. of Water Inlet and Outlet	Max Pool Volume (m^3)
EC 8	387x122x152	DC 24	4	8	1.5"/50mm	35
EC 12	387x122x152	DC 24	4	12	1.5"/50mm	50
EC 16	387x122x152	DC 24	4	16	1.5"/50mm	68
EC 20	387x122x152	DC 24	4	20	1.5"/50mm	85

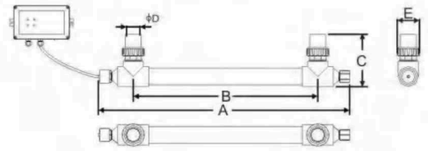
Note:• In practice,the local pool standards and professional habits should be considered,and the adjusting allowance of 20-30% should be reserved.
• For outdoor pool,cyanuric acid(stabilizer) should be added to pool water,the ideal range for cyanuric acid is 25-50ppm when used.

UV STERILIZER

DISINFECTING EQUIPMENT

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

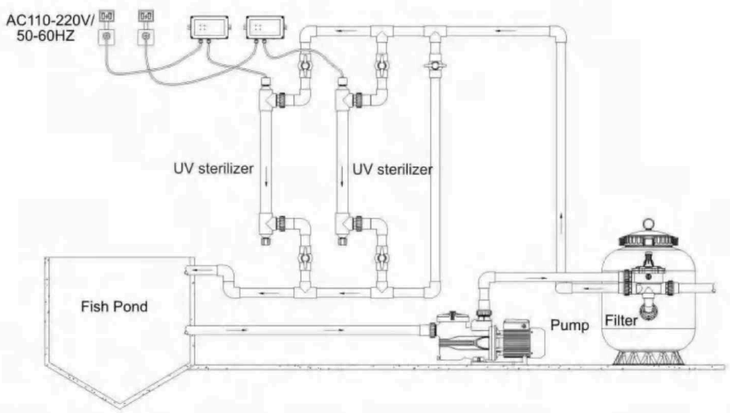




A(mm)	900	900	1055	1200
B(mm)	662	662	817	962
C(mm)	235	235	235	235
E(mm)	101	101	101	101

Features:

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



Model	Power (W)	Flow rate (m^3/h)	Voltage (V)	Lamp quantity	Pipe size (inch/mm)	Fish pond volume (m^3)	Pool volume (m^3)
WL-UVD40	40	5	220	1	1.5" 50mm	15	30
WL-UVD80	80	8	220	1	1.5" 50mm	24	48
WL-UVD100	100	10	220	1	1.5" 50mm	30	60
WL-UVD120	120	12	220	1	1.5" 50mm	36	72

UV STERILIZER
DISINFECTING EQUIPMENT

Features:

- Special safe design for public swimming pool and private pool. No risk to swimmer because of safety voltage of 12V.
- Different from the normal revolving design, it adopts particular buckle for UV tube to avoid its damage during installation.
- It uses purely physical method to sterilize the pool water, no chemical residue, non-corrosive, non-toxic side effect after sterilizing by UV sterilizer. No health hazards to human skin and body.
- Compared with CH and ozone generator, UV sterilizer is easy to install, economical and low maintenance too.
- A humanistic design to caution the working situation of UV sterilizer by LED light, and this make the repair and maintenance so easy.
- The sterilization rate of bacteria and virus could reach 99% to 99.9% within 2s, includes flu, hepatitis virus, coli, staphylococci, bacillus subtilis, etc.



WL-UV14×2





WL-UV14×18



Model	Size (mm)	Power (W)	Design Flow (m^3/h)	Voltage (V)	Lamp Quantity	Inlet /Outlet (Inch)	Life	Ballast
WL-UV14×2	460×125×320	28	1.5 ~ 2	12	14W×2	1.5"	8000 ~ 10000	Inductance / Electron
WL-UV14×4	L700×Φ170	56	3 ~ 4	12	14W×4	1.5"	8000 ~ 10000	Inductance / Electron
WL-UV14×6	L700×Φ170	84	5 ~ 6	12	14W×6	1.5"	8000 ~ 10000	Inductance / Electron
WL-UV14×8	L700×Φ170	112	7 ~ 8	12	14W×8	1.5"	8000 ~ 10000	Inductance / Electron
WL-UV14×10	L700×Φ170	140	9 ~ 10	12	14W×10	1.5"	8000 ~ 10000	Inductance / Electron
WL-UV14×12	L700×Φ170	168	11 ~ 12	12	14W×12	2.0"	8000 ~ 10000	Inductance / Electron
WL-UV14×14	L700×Φ170	196	13 ~ 14	12	14W×14	2.0"	8000 ~ 10000	Inductance / Electron
WL-UV14×16	L700×Φ170	224	15 ~ 16	12	14W×16	2.0"	8000 ~ 10000	Inductance / Electron
WL-UV14×18	L700×Φ170	252	17 ~ 18	12	14W×18	2.0"	8000 ~ 10000	Inductance / Electron
WL-UV14×20	L700×Φ170	280	18 ~ 20	12	14W×20	2.0"	8000 ~ 10000	Inductance / Electron

UV STERILIZER
DISINFECTING EQUIPMENT



Thread 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.



Flange connection

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^3/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.



UVX SERIES UV STERILIZER FOR SEAWATER

DISINFECTING EQUIPMENT

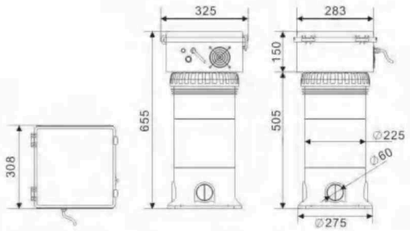


Specially designed for sea water environment. The housing is made of high quality PVC, which is anti-corrosion and durable. Equipped with UV-C lamp and high purity quartz sleeves for high efficient and long term sterilization. The disinfection process is fully closed, with sound and light alarm device,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

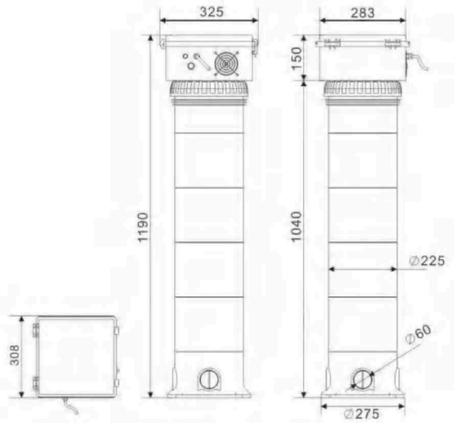
Advantages:

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

Model	Flow rate (m^3/h)	Total power (W)	Voltage (V)	Connection size (mm)
WL-UVX46	5	46	220/50Hz	DN63
WL-UVX92	8	92	220/50Hz	DN63
WL-UVX160	15	160	220/50Hz	DN63
WL-UVX320	25	320	220/50Hz	DN63



WL-UVX46, WL-UVX92



WL-UVX160, WL-UVX320

HIGH CONCENTRATION OZONE WATER GENERATOR

DISINFECTING EQUIPMENT

DN-OWS high concentration ozone water generator offers the unique advance oxidation treatment of commercial pool water. The process combines the disinfection and oxidation properties of ozone and UV making the most advanced pool water purification system available.

Widely used in swimming pool and pond.



Benefits：

- It integrates power supply protection, current indication and Low water flow alarm functions
- Effective disinfection and safely lower free chlorine residual including chlorine resistant micro-organisms.
- Chloramines destruction reducing "red eye" and irritation of skin and respiratory system.
- Trihalomethane (THM) levels are minimised.
- Compact unit footprint suitable for small plant rooms.
- Designed for maximum operator and bather safety.
- Low installation cost-minimal connections required.
- Air-cooled design.
- The low water flow alarm and automatically power shutdown can effectively protect the equipment.
- Ozone water has high concentration and good sterilization efficiency.
- With UV germicidal lamp, double sterilization, better effect.
- With a concentration regulator, which can adjust the ozone output concentration according to needs.
- The Ozone generator has high conversion efficiency, low energy consumption, continuous operation and long service life.
- PSA technology to prepare oxygen.
- High intensity long life low pressure 8,000 hour UV lamps.

Model	DN-OWS-10G	DN-OWS-20G	DN-OWS-30G
Ozone Output	10g/h	20g/h	30g/h
Power Supply	220v/50Hz	220v/50Hz	220v/50Hz
Power Consumption	0.75kW	1.2kW	1.55kW
L x W x H	70*60*170cm	70*60*170cm	70*60*170cm
Weight	124.7kg	160kg	180kg
Flow Rate	2t/h	4.5t/h	7.5t/h
Ozone Water concentrtion	1-3ppm	1-3ppm	1-3ppm
Water Inlet	1"Male	1.5"Male	1.5"Male
Water Outlet	1.5"Male	1.5"Male	1.5"Male
Cooling	Fan	Fan	Fan
Feed Gas	Built-in Oxygen Generator	Built-in Oxygen Generator	Built-in Oxygen Generator
Material	Epoxy Coated Mild Steel	Epoxy Coated Mild Steel	Epoxy Coated Mild Steel

Notes: with the product update, the parameters are slightly deviated without notice. Please take the physical parameters as the standard.

WALL-MOUNTED OZONE GENERATOR

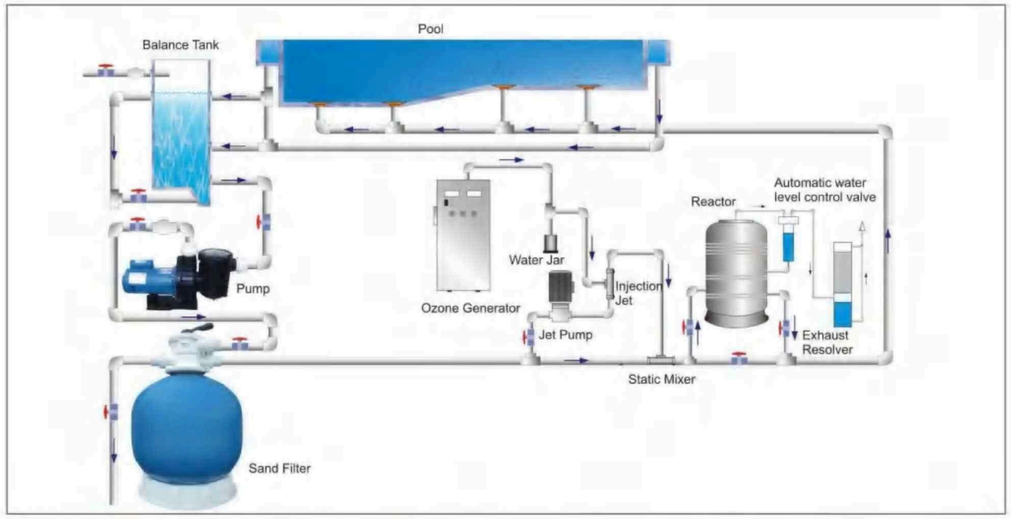
DISINFECTING EQUIPMENT



The wall-mounted ozone generator is suitable for disinfection and sterilization ofindividual space.Wall mount design is easier for ozone gas to reach anywhere for disinfection. It can be widely used in swimming pool and pond.

Advantages:

- Air cooling design.
- Microcomputer timer, the working time can be preset according to needs.
- The shell is designed with stainless steel, which is durable.
- The ozone generating tube has high conversion efficiency, low energy consumption, can work continuously, and has a long service life.
- Built-in anti-backwater solenoid valve.



Model	DNA-3G	DNA-5G	DNA-7G	DNA-10G	DNA-15G	DNA-20G
Ozone Output	3g/h	5g/h	7g/h	10g/h	15g/h	20g/h
Power	60 W	80 W	120 W	140 W	250 W	270 W
Cooling Method	Air Cooled	Air Cooled	Air Cooled	Air Cooled	Air Cooled	Air Cooled
Outlet Diameter	4mm	4mm	4mm	4mm	10mm	10mm
Unit Weight	4kg	4.2kg	7.8kg	8.4kg	13.2kg	14.6kg
Disinfection Area	0-30m²	0-50m²	0-70m²	0-100m²	0-150m²	0-200m²
Dimension(L*W*H)	23*18*46cm	23*18*46cm	32*25*52.5cm	32*25*52.5cm	40*30*62cm	40*30*62cm
Feed gas	Clean And Dry Air(inner air pump)					
Voltage	110V/60Hz;220-240V/50Hz;220V/60Hz					

TOUCH INTELLIGENT WATER QUALITY MONITOR

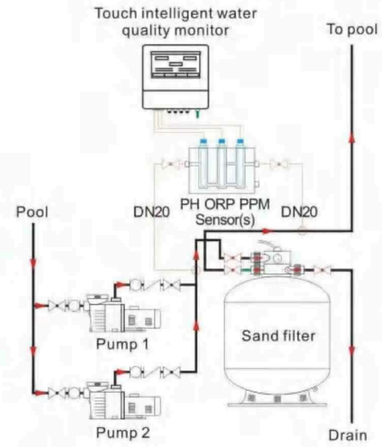
DISINFECTING EQUIPMENT



- Electrode plug and play, no conversion module is needed, three-point probe calibration, more precise data. Water quality parameter standards include European, Chinese and other national standards;
- Switch free between Chinese and English interfaces, more convenient to operate by full touch screen;
- Less failure, high accuracy, low maintenance.
- Can control 3 sets of dosing pump;

Installation Guide：

- Close the water valves at the front and back of the installation site to keep the installation section free of water, so as to avoid accidents.
- The water intake point shall be located behind the water pump and in front of the filter in the return water pipeline of the swimming pool. There is a certain pressure difference between the water inlet and the outlet to make the water flow through the flow trough. Use tools to drill a DN15 hole at this main pipeline or change it to DN15 through tee, and fix the DN15 ball valve at the water intake;
- Install the acrylic flow trough and the water quality monitor. Use the wall mounting method to connect the flow trough with the DN15 ball valve of the water intake through 6x4mm hose;
- The water outlet of the flow trough is directly discharged by pressure relief through 6x4mm hose (discharged to the water collecting well or returned to the equalization tank);
- Open the water valve to confirm whether there is water flow through the flow trough and the water flow is enough.



Technical Parameter

Product Model	WL-SZI202
PH measurement	Electrode method，measurement range：0 -14PH，measurement accuracy：<0.01PH，suitable temperature：0-80 ℃
ORP measurement	Electrode method, measurement range：0~+1200mv， measurement accuracy：<2mv，suitable temperature：0-80 ℃
Input power	220-250V，50/60Hz
Output	3 sets of dosing pump output（5A，220V-240V）
Display	4.3-inch LCD screen
Operation	Touch
Dimensions	200(height) x 235(width) x70 (depth) mm
Weight	1.7kg
Installation method	Wall-mounted
Housing material	Plastic
Protection grade	IP65
Working environment	Normal temperature and keep dry
Others	Built-in water quality standards. Support Chinese and English bilingual

Notes：Each machine corresponds to a pair of probes, not to be mixed up.
Clean and calibrate the probe every 3 months.

METERING PUMP

DISINFECTING EQUIPMENT



The metering pump is designed to inject chemicals into piping systems.All models are equipped with a side mounted mechanical flow rate adjustment knob.Optional on/off cycling timers are available.

Model	Strokes Per Minute	Maximum Chemical Flow (ml/m)	Maximum Pressure (kpa)	Power source
WL-AYB660P	60	290	420	220V/50Hz

CHEMICAL FEEDER



WL-AYJ01

Features:

- No special venting required.
- Completely sealed,no escape of gase.
- Positive external, no-clog control valve.
- Feeder is designed to automatically lower the water level so tablets are not soaking during off period of pump.This allow more efficient use of tablets.
- No equipment damage. Feeds sanitizer directly to pool or spa.
- To prevent over feeding during use, completely close the control valve and the built in check valve will prevent chemical from being fed into pool or spa.
- All parts replaceable.
- Never connect with brass pipe.



PCF01

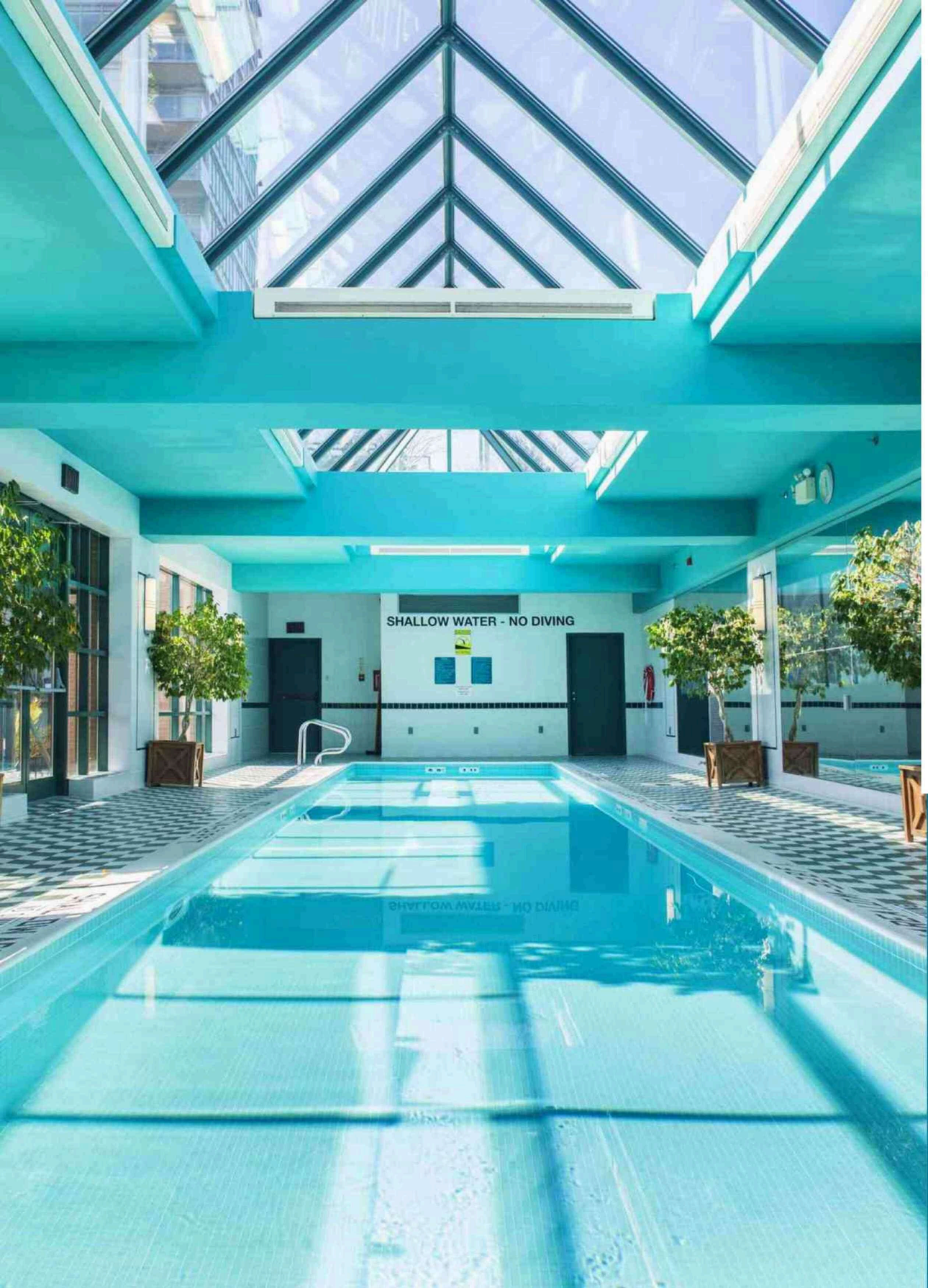
4.2lbs（1.9kgs） Inline Chlorine Feeder Body



CL-200

Features:

- 9lb inline chlorine feeder.
- Chlorine feeder rate is adjustable by regulating the valve setting.
- Easy-lock cover for total tightness.



Millian
MILLION GOALS, MILLION SOLUTIONS

Heat Pump



SWIMMING POOL
HEAT PUMP

FULL INVERTER SWIMMING POOL HEAT PUMP

PREMIUM SERIES

MILLIAN Premium series swimming pool heat pump is powered by mature stepless DC inverter technology, which helps to greatly reduce the energy consumption while running silently, enabling the unit to reach extremely high COP up to 14. By smart conversion of compressor speed, fan motor speed and system pressure, this Premium series heat pump can provide amazing energy saving and silent performance.



Full inverter | R32

Stepless DC Inverter

MILLIAN full inverter series core technology is stepless DC inverter. It adopts stepless inverter compressor and DC brushless fan motor. The speed can be adjusted as low as one hertz and one round, which provides amazing energy saving and super silence performance.

Intelligent protection

Can adapt to wide voltage of 180V ~ 260V and adjusts the system in different tough condition. For example, if there is electricity fluctuation or during electricity peak period, the system can slow down intelligently for comfortable operation. Thus, it brings longer service life than normal on/off heat pump.

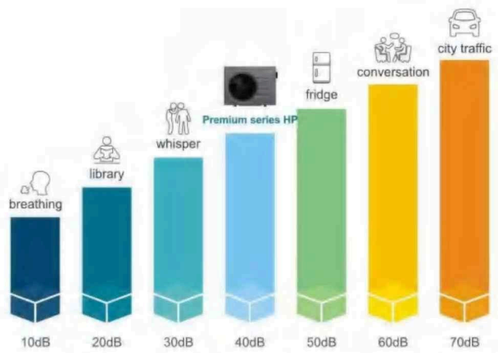
Specially designed inverter control system

The control system is specially designed for pool heating.It can adjust the heating capacity precisely according to different heating loss in the swimming season.The design philosophy is to achieve fast heating at high speed in the begining of the season, and slow down at middle & low speed when the pool water reaches the target temperature,for better energy saving and silent performance in the rest of the season.



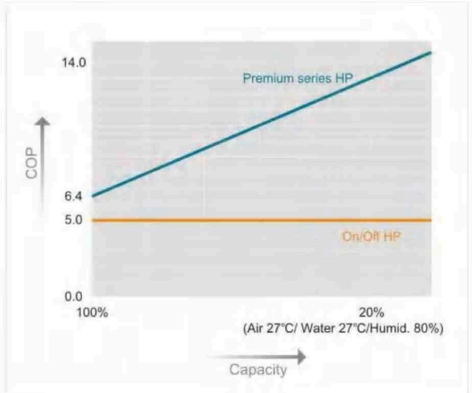
Super silent running

- Thanks to the full inverter technology, this Premium series pool heat pump can bring you much quieter swimming environment than a normal on/off pool heat pump, which is more friendly to your neighborhood.



COP up to 14

- When maintaining pool temperature at 95% of pool season, the COP of this Premium series heat pump can be up to 14 when running at middle & low speed, which leads to the best energy saving performance and most silent pool environment.



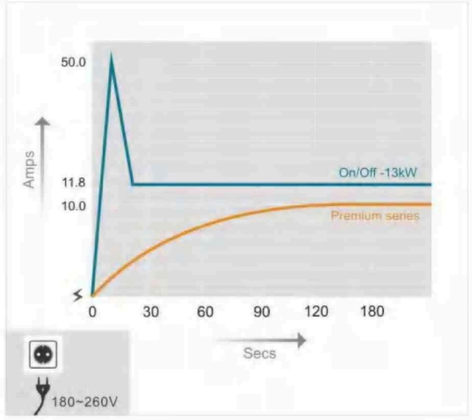
Energy saving

- Adjusting the operating frequency of its compressor and fan motor automatically according to the heating or cooling demand, Premium series heat pump runs at middle & low speed most of the time, it is nearly double energy saving than On/Off heat pump.



Soft start & wide voltage application

- By using stepless DC inverter compressor, the input current will start from 0 Amps to rated Amps steadily, to better protect the house electricity system. With its smart conversion, this premium series heat pump can be also adapted to wide voltage from 180~260V.



FULL INVERTER SWIMMING POOL HEAT PUMP

PREMIUM SERIES

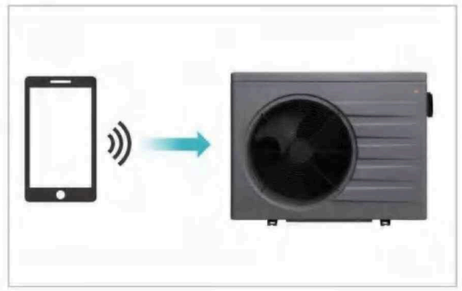
Eco-friendly refrigerant R32

- Compared to other refrigerants widely used today, R32 is remarkable for its small environment impact and has a global warming potential(GWP) of 675, which is two-third lower than R410A, cuts 75% carbon emission and 75% F-gas quota cost.



Built-in Wi-Fi function

- With Wi-Fi function, you can control your heat pump through a smart APP on the phone easily anywhere and anytime.



Other features

DC — Twin-rotary DC inverter compressor

Reverse cycle defrosting with 4-way valve for quick & efficient defrosting

-10℃ — Design for operating air temperature as low as -10℃

EEV — EEV technology: 10 times flexibility to adjust the gas flow and increase the COP by up to 20%.

Spiral titanium heat exchanger: 40% higher efficiency than normal titanium heat exchanger.

Can be used for swimming pool heating or cooling.

Customizable Appearance

In order to choose your most preferable color or appearance of the heat pumps, customized appearances service is available .


Grey


Black


Dark grey


Silver white


Royal blue


Brown

Technical parameters

Model	LS07-IFP1-S2C1	LS09-IFP1-S2C1	LS13-IFP1-S2C1	LS16-IFP1-S2C1	LS20-IFP1-S2C1	LS24-IFP1-S2C1
Performance condition: Air: 27℃ / Water: 27℃ / Humidity: 80%						
Heating capacity (kW)	1.4-7.2	1.9-9.3	2.6-13	3.2-16	4.1-20.5	4.8-24.4
Heating capacity (BTU)	4800-24600	6500-31700	8900-44400	10900-54600	14000-70000	16400-83300
COP Range	14.8-6.4	14.8-6.7	14.9-6.4	14.5-6.4	14.6-6.4	14.8-6.0
Average COP at 50% Speed	9.8	9.7	9.8	9.6	9.7	9.8
Performance condition: Air: 15℃ / Water: 26℃ / Humidity: 70%						
Heating capacity (kW)	1.0-5.0	1.3-6.5	1.8-9.1	2.3-11.5	2.9-14.4	3.4-17.1
Heating capacity (BTU)	3400-17000	4400-22200	6100-31000	7850-39200	9600-47800	11600-57300
COP Range	8.6-4.1	8.7-4.2	8.4-4.0	8.7-4.2	8.8-4.1	8.6-4.1
Average COP at 50% Speed	6.9	6.8	6.9	6.7	6.8	6.9
Technical specific						
Advised pool volume (m^3) *	15~30	20~45	35~65	40~75	50~90	60~110
Operating air temperature (℃)	-10℃~43℃					
Power supply	220-240V / 1Ph / 50-60Hz					
Heat exchanger	Spiral titanium tube in PVC					
Refrigerant	R32					
Casing	ABS(Galvanized steel is available)					
Compressor	Twin-rotary					
Rated input power (kW)	0.1-1.13	0.13-1.39	0.17-2.03	0.22-2.5	0.28-3.2	0.32-4.1
Input power at 50% Speed (kW)	0.4	0.5	0.7	0.9	1.2	1.3
Rated input current (A)	0.40-4.9	0.52-6.0	0.8-8.8	1.0-10.9	1.2-14.0	1.4-17.7
Maximum input current (A)	5.8	7.2	10.6	13.1	16.7	21
Power cord (mm^2)	3*1.5	3*1.5	3*2.5	3*2.5	3*4.0	3*4.0
Sound level at 1m dB(A)	36.8~50.2	38.6~52.5	42.5~52.0	42.5~52.0	44.3~57.0	44.9~58.7
Sound level by 50% speed 1m dB(A)	42.5	45.8	47.5	47.5	48.6	48
Sound level at 10m dB(A)	17.9~30.2	19.6~31.4	22~32.5	24.2~35.4	24.3~36.2	25.9~37.6
Advised water flow (m^3/h)	2~4	3~5	4~6	6~8	7~10	10~12
Water connection (mm)	50					
R32 Net weight (g)	450	600	750	1500	1500	1750
Gross weight (kg)	50	52	53	65	68.5	79.5
Net weight (kg)	42	44	45	56	59	70
Net dimension LxWxH (mm)	891x370x665	891x370x665	891x370x665	981x370x665	981x440x765	981x440x765
Packing Size (mm)	936x385x695	936x385x695	936x385x695	1026x385x695	1026x455x800	1026x455x800
Qty per 20'FT / 40'HQ (sets)	102/216	102/216	102/216	90/198	50/165	50/165

Remarks:

- The above data will be subject to change without further notice, please refer to the nameplate on the unit.
- Advised pool volume applies to a private pool with an isothermal cover, from April to September.

SUPER SILENT FULL INVERTER SWIMMING POOL HEAT PUMP

INFINITY SERIES

MILLIAN super silent full inverter swimming pool heat pump Infinity series is specially designed for silent and comfortable user experience, with COP up to 15 while sound level is down to 42dB. Thanks to the DC inverter compressor, stepless inverter control system and brushless fan motor, the speed can be adjusted Hz by Hz and round by round, to achieve energy saving and super silence.



Stepless DC Inverter | COP up to 15

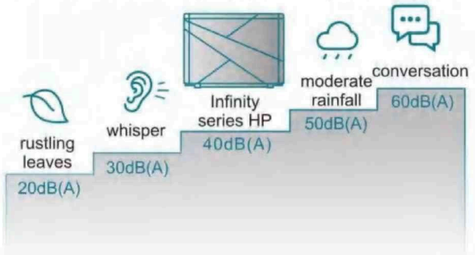
42dB(A) at 1m | Comfort Silence

WIFI

CE

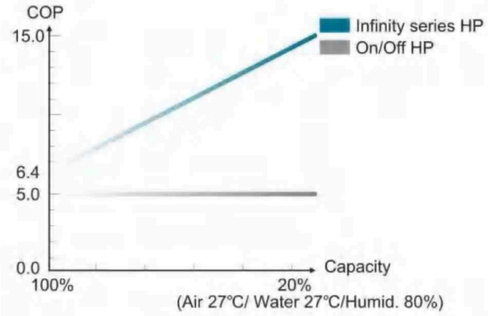
Super silence

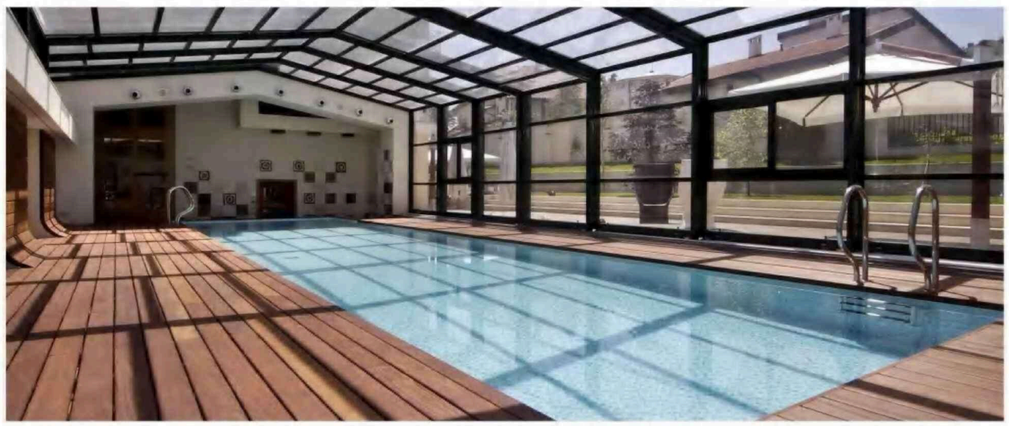
- Unique backward airflow helps to provide comfort silence swimming experience. It adopts invisible fan to draw air from two sides and bottom side, and exhaust out from back side to eliminate every possible noise to realize silence and comfort, and achieve a sound level down to 42dB(A) at 1m, 10dB(A) lower than On/Off heat pump, you'll hardly notice it's there.



COP up to 15

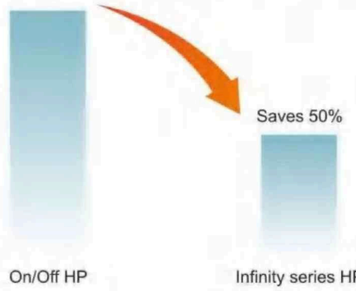
- Infinity series heat pump runs at middle & low speed to maintain pool temperature for 95% of swimming season, COP can be up to 15.





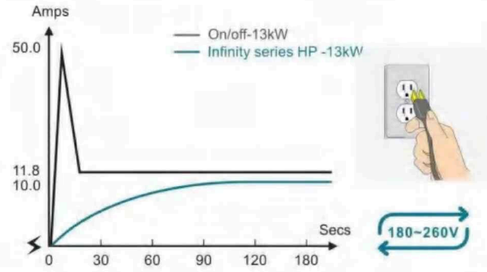
Energy saving

- With low-speed running most of the time, Infinity series heat pump is double energy saving than On/Off heat pump, as it will adjust the operating speed of its compressors and fan motors automatically according to the heating or cooling demand.



Soft start & wide voltage application

- The input current will start from 0 Amps to rated Amps steadily. More friendly to house electricity system. Infinity series heat pump can be also adapted to wide voltage from 180~260V.



Built-in Wi-Fi function

- With Wi-Fi function, you can control your heat pump with a smart APP on the phone easily at anywhere and anytime.



Other features

EEV technology
10 times flexibility to adjust the gas flow and increase the COP by up to 20%.

Twisted titanium heat exchanger
40% higher efficiency than normal titanium heat exchanger.

-10℃ Designed for down to Air -10 ℃ Operation.

ECO-Friendly refrigerant
32% GWP comparing to R410A, 25% CO_2 carbon consumption and 25% quota cost

DC Twin-Rotary DC Inverter compressor.

Reverse cycle defrosting
With Saginomiya 4-way valve for quick and efficient defrosting.

SUPER SILENT FULL INVERTER SWIMMING POOL HEAT PUMP

INFINITY SERIES

Technical parameters

Model	LAS13-IFPQ1-S4C2	LAS16-IFPQ1-S4C2	LAS20-IFPQ1-S4C2	LAS24-IFPQ1-S4C2
Performance condition: Air 27°C/ Water 27°C/ Humid. 80%				
Heating capacity (kW)	2.6-13.2	3.2-16.0	4.1-20.8	4.5-24.0
Heating capacity (BTU)	8900-45100	11000-54600	14000-71000	15400-81900
COP Range	14.9-6.0	14.5-5.9	15.2-6.1	15.0-5.7
Average COP at 50% Speed	9.8	9.6	9.7	9.8
Performance condition: Air 15°C/ Water 26°C/ Humid. 70%				
Heating capacity (kW)	1.8-9.1	2.3-11.5	2.9-14.4	3.4-15.9
Heating capacity (BTU)	6200-31100	7900-39300	9900-49200	11600-54300
COP Range	8.4-4.0	8.7-4.2	8.8-4.1	8.7-4.2
Average COP at 50% Speed	7.4	7.1	7.3	7.2
Technical specifications				
Advised pool volume (m^3) *	20~45	35~65	50~90	60~110
Operating air temperature (℃)	-10℃~43℃			
Compressor	Twin-rotary Compressor			
Heat exchanger	Titanium			
Power supply	220-240V / 1Ph / 50-60Hz			
Refrigerant	R32			
Material	ABS+Galvanized Sheet			
Rated input power (kW)	0.17~2.03	0.2~2.3	0.28~3.2	0.30~4.2
Input power at 50% Speed (kW)	0.7	0.8	1.2	1.3
Rated input current (A)	0.8~8.8	0.9~10.0	1.2~14.0	1.3~18.2
Maximum input current (A)	10.6	12.0	16.7	22.0
breaker rated current (A)	15.0	20.5	23.5	25.0
Power cord (mm^2)	3×2.5	3×2.5	3×4.0	3×4.0
Sound level at 1m dB(A)	42.2~52.8	42.5~54.0	43.8~54.5	42.9~56.7
Sound level by 50% speed 1m dB(A)	45.8	45.5	47.1	48
Sound level at 10m dB(A)	22.2~31.8	22~34.5	23.6~34.2	21.9~37.6
Advised water flux (m^3/h)	4~6	6~8	7~10	10~12
Water connection (mm)	50			
R32 Net weight (g)	900	1100	1300	1400
Net weight / Gross weight (kg)	53/67	58/72	70/86	76/92
Net dimension LxWxH (mm)	900x430x670	900x430x670	1060x430x780	1060x430x780
Packing size LxWxH (mm)	960x450x700	960x450x700	1150x450x810	1150x450x810
Qty per 20'FT / 40'HQ (sets)	95/180	95/180	50/150	50/150

Remarks:

- The above data will be subject to change without further notice, please refer to the nameplate on the unit.
- Advised pool volume applies to a private pool with an isothermal cover, from April to September.

HIGH EFFICIENT SWIMMING POOL HEAT PUMP

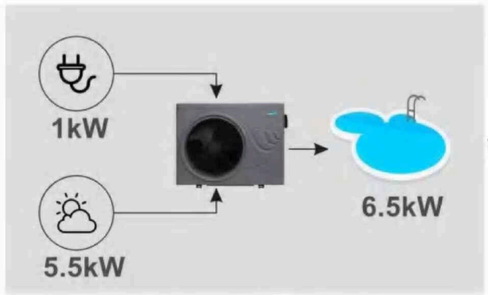
COMFORT SERIES

MILLIAN high efficient Comfort series swimming pool heat pump is specially developed for energy saving and fast pool heating. With a COP as high as 6.5, it helps to extend the swimming season in a high cost-effective way. This Comfort series pool heat pump offers over 6 times heat power than electrical power input, it is your best choice for enjoying pool fun.



COP up to 6.5, over 6 times energy saving

- At the condition of Air 27℃/Water 27℃/Humid.80%, the COP can be as high as 6.5, this comfort series heat pump offers over 6 times heat power than electric power input, giving you exceptional performance at a high cost-effective way.



High efficient on/off heat pump
COP 6.5

Electrical heater
COP 1

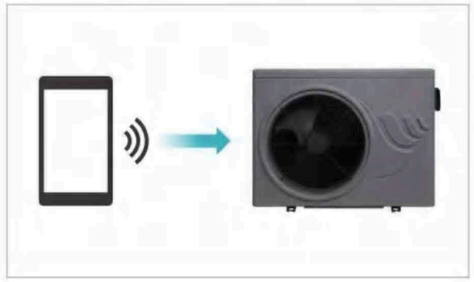
Spiral titanium heat exchanger

- Spiral titanium heat exchanger enlarges the area of heat exchanging by at least 30%.



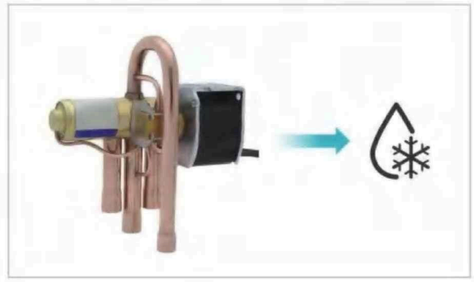
Built-in Wi-Fi function

- With Wi-Fi function, you can control the heat pump with a smart APP on the phone easily anywhere and anytime.



Intelligent defrost

- With a 4-way valve for quick and efficient reverse cycle defrosting, ensuring the unit is running in high efficiency.



Other features

Down to -5℃ running, help to extend the swimming season

ECO-friendly refrigerant
Compared to R410A, only 32% GWP, 25% CO2 carbon emission and 25% quota cost

Quiet operation, comfortable swimming environment

Simple LED digital controller

Silver welding for reliable refrigerant system

ABS casing
Anti-UV and anti-corrosion



HIGH EFFICIENT SWIMMING POOL HEAT PUMP
COMFORT SERIES

Technical parameters

Model	LS06-CFP1-S1C1	LS10-CFP1-S1C1	LS12-CFP1-S1C1	LS14-CFP1-S1C1	LS17-CFP1-S1C1
Performance condition: Air 27°C/ Water 27°C/ Humid. 80%					
Heating capacity (kW)	6.0	10.2	12.0	14.0	17.0
Heating capacity (BTU)	20500	34800	40960	47800	58000
COP Range	5.8	6.3	6.5	6.5	6.4
Performance condition: Air 15°C/ Water 26°C/ Humid. 70%					
Heating capacity (kW)	4.2	7.1	8.4	9.8	11.9
Heating capacity (BTU)	14300	24200	28700	33400	40600
COP Range	4.3	4.4	4.6	4.6	4.5
Technical specifications					
Advised pool volume (m^3)	0~30	25~45	35~55	40~65	45~75
Operating air temperature (℃)	-5℃~43℃				
Power supply	220-240V/ 1Ph / 50Hz				
Heat exchanger	Spiral titanium tube in PVC				
Refrigerant	R32				
Casing	ABS				
Compressor	Rotary				
Rated input power (kW)	1.0	1.6	1.8	2.2	2.6
Rated input current (A)	4.5	7.0	8.0	9.4	11.3
Max input current (A)	6.5	10.2	11.6	13.6	16.0
Breaker (A)	8.0	13.0	15.0	16.5	20.0
Power cord (mm^2)	3*1.5	3*2.5	3*2.5	3*4.0	3*4.0
Sound level at 1m dB(A)	46.5	46.5	47.5	47.5	48.5
Sound level at 10m dB(A)	27.5	27.5	29.5	29.5	30.5
Advised water flow (m^3/h)	2.5-3.5	4.0-6.0	4.0-6.0	5.0-7.0	6.0-8.0
Water connection (mm)	50				
Net dimension LxWxH (mm)	891x370x665	891x370x665	981x370x665	981x370x665	981x370x665
Packing Size (mm)	936x385x695	936x385x695	1026x385x695	1026x385x695	1026x385x695
Loading quantity of 20ft/40HQ (Sets)	102/216	102/216	90/198	90/198	90/198

Remarks:

- The above data will be subject to change without further notice, please refer to the nameplate on the unit.
- Advised pool volume applies to a private pool with an isothermal cover, from April to September.

INVERTER MINI SWIMMING POOL HEAT PUMP

IMN SERIES

MILLIAN inverter mini swimming pool heat pump IMN series is the best choice for various small above ground pools. You can easily enjoy a comfortable heated swimming pool in your backyard, even on not-so-beautiful summer days. Thanks to the inverter technology, it absorbs free heat from the environment and passes it into the water for reduced and controlled energy consumption.

INVER TECH | CE | R32



Features:

- Ideal for above-ground pools, spas and splash pools
- Operating air temperature 5 ℃-43 ℃
- Easy installation (quick connection)
- Simple and intuitive control panel
- Low noise operation
- Filled with environmentally friendly R32 gas
- Titanium heat exchanger
- 1.5m wire cable&plug with RCD protection
- Suitable for 32mm or 38mm water connections



Application :







Save 80% energy

COP is up to 13, over 80% free energy from the ambient air



Just plug&play

Simple plug and play saves valuable installation time



Technical Parameters

Model	LS03-IMN1-S4C6	LS04-IMN1-S4C6	LS05-IMN1-S4C6
Performance condition: Air: 27℃ / Water: 27℃ / Humidity: 80%			
Heating capacity (kW)	1.3-3.5	1.5-4.5	2.0-5.6
Heating capacity (BTU)	11740	15360	18780
COP	13.2-5.4	13.1-5.2	13.1-6.0
Average COP at 50% Speed	8.1	8.6	9.5
Performance condition: Air: 15℃ / Water: 26℃ / Humidity: 70%			
Heating capacity (kW)	0.9-2.4	1.1-3.2	1.5-3.9
Heating capacity (BTU)	8220	10750	13450
COP	7.6-4.1	7.7-4.2	7.4-4.0
Average COP at 50% Speed	5.7	6.0	6.7
Technical specifications			
Advised pool volume (m^3) *	0~15	5~20	8~25
Operating air temperature (℃)		5℃-43℃	
Power supply		220-240V / 1Ph / 50Hz	
Heat exchanger		Spiral titanium tube in PVC	
Compressor		Twin-rotary DC inverter	
Refrigerant		R32	
Casing		Galvanized steel	
Rated input power (kW)	0.09-0.65	0.12-0.87	0.15-0.93
Input power at 50% Speed (kW)	0.2	0.3	0.35
Rated input current (A)	0.4-2.8	0.5-3.8	0.6-4.1
Maximum input current (A)	3.6	5	5.4
Power cord (mm^2)		3x1.0	
Fan speed (rpm)		850-900	
Sound level at 1m dB(A)		48~52.5	
Sound level by 50% speed 1m dB(A)		50	
Sound level at 10m dB(A)	21~32.5	22~32.5	22~33.5
Advised water flow (m^3/h)	1~2	1~2.5	2~3.5
Protection level		IPX4	
Water connection (mm)		32/38	
Water pressure drop (kPa)		15	
R32 Net weight (g)	320	350	400
Gross weight (kg)	26	27	28
Net weight (kg)	24	25	26
Net dimension LxWxH (mm)		440x330x486	
Packing Size (mm)		520x350x490	
Qty per 20'FT / 40'HQ (sets)		264/660	

Remarks:

- The above data will be subject to change without further notice, please refer to the nameplate on the unit.
- Advised pool volume applies to a private pool with an isothermal cover, from April to September.

HEAT PUMP

NORMAL TEMPERATURE
POOL HEAT PUMP

MILLIAN 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℃).
- Wide working air temperature range: -5℃ to 43℃.
- 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.



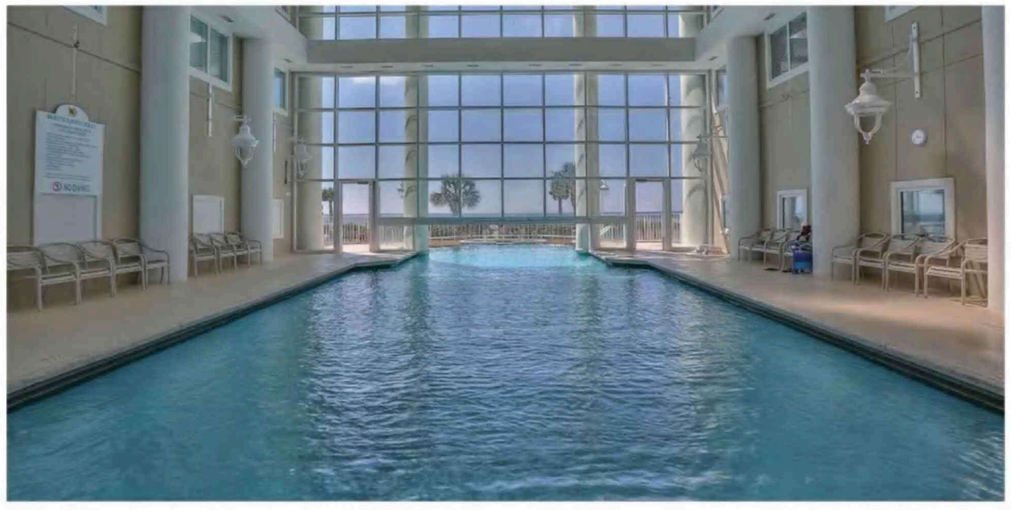
LAS70-KP - LAS105-KP



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.



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℃)	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 (℃)		40						
Grade of waterproof		IPX4						
Anti-shock type		I						
Operating air temperature (℃)		-5℃~43℃						
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 (m^3/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℃ DB, 19℃ WB, inlet water temperature 26℃;
- A20/W26 Standard heating condition: 20℃ DB, 15℃ WB, inlet water temperature 26℃;
- A7/W26 condition: 7℃ DB, 6℃ WB, inlet water temperature 26℃;
- Cooling condition: 35℃ DB, 27℃ WB, inlet water temperature 28℃;
- Due to the continuous improvement of products, the actual data will be subject to change without prior notice, please refer to the nameplate.

Millian
MILLION GOALS, MILLION SOLUTIONS

Competition Pool Equipment



STARTING PLATFORMS

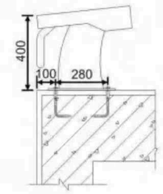
STARTING PLATFORMS

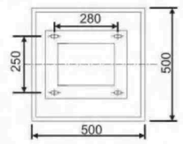
COMPETITION POOL EQUIPMENT

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



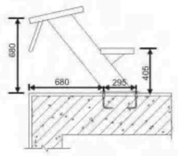
WL-ACF01 Standard Starting Platform

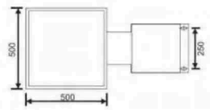






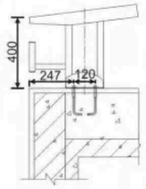
WL-ACF02 SS Two Steps Starting Platform

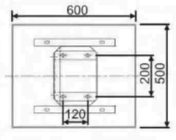






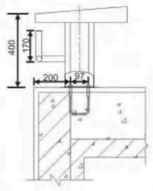
WL-BCF01 Standard Starting Platform

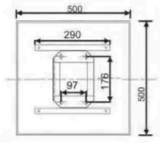






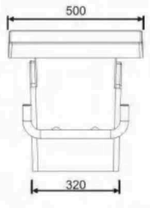
WL-BCF02 Standard Starting Platform

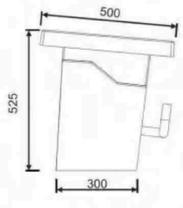






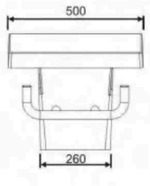
WL-ACF05 Standard Starting Platform

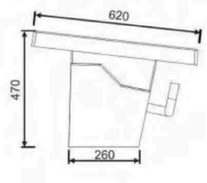






WL-ACF06 Standard Starting Platform

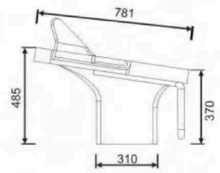






WL-ACF07 Standard Starting Platform





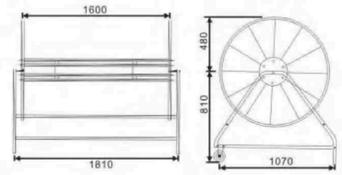


WL-AJX01

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 isvery strong and durable. Holds one 50m or two 25m lanes. Maintenance free . IT is ideal lane reel for commercial and institutional pools.



RACING LANE LINE



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

Each lane consists of a series of ϕ 120 or ϕ 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.



Model	Specification
WL-BYD101	Φ150×25m
WL-BYD102	Φ150×50m
WL-BYD201	Φ120×25m
WL-BYD202	Φ120×50m

HYDROTHERAPY EQUIPMENT



SPA BED

COPPER JETS
HYDROTHERAPY EQUIPMENT



Round 3 Holes Jet
Diameter :Φ50.8 MM
Rate : 15 M^3/HR
Model : WL-C001



Round 5 Holes Jet
Diameter :Φ50.8 MM
Rate : 20 M^3 /HR
Model : WL-C002



Round 6 Holes Jet
Diameter :Φ50.8 MM
Rate : 20 M^3/HR
Model : WL-C003



Round Ring Jet
Diameter :Φ50.8 MM
Rate : 22 M^3 /HR
Model : WL-C004



Flat - Round 4 Holes
Radiate Jet
Diameter :Φ50.8 MM
Rate : 20 M^3/HR
Model : WL-C005



Flat - Round 4 Holes
Sector Jet
Diameter :Φ50.8 MM
Rate : 20 M^3/HR
Model : WL-C006



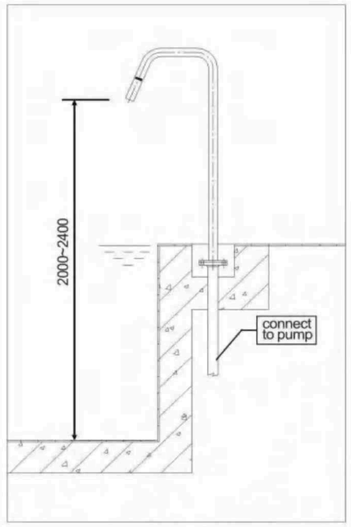
Flat - Round Radiate Jet
Diameter :Φ50.8 MM
Rate : 20 M^3/HR
Model : WL-C007

STAINLESS STEEL SUPPORT FOR JET

HYDROTHERAPY EQUIPMENT







(Φ51mm O.Dx1.5mm Wall)

Model	Dia.	Height (mm)
WT-S01	Φ51	1430
WT-S02	Φ51	1630
WT-S03	Φ51	1830
WT-S04	Φ51	2030







Model	Material	Length(mm)	Width(mm)
WL-WQ101	Stainless steel	980	220
WL-WQ201	Stainless steel	2000	200

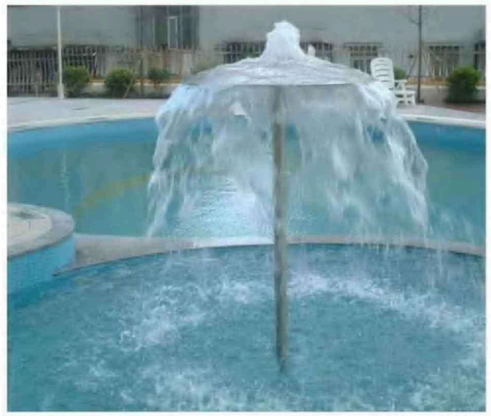
UMBRELLA

HYDROTHERAPY EQUIPMENT



MUSHROOM

Name	Model	Material	Diameter (mm)	Knighthead Height (mm)
Model I	WL-C401	Stainless steel	1200	2000



UMBRELLA

Name	Model	Material	Diameter (mm)	Height (mm)
Umbrella	WL-C501	Stainless steel	1200	2000



GOBLET

Name	Model	Diameter (mm)	(H/Knighthead) (mm)
Goblet	WL-C601	1400	2000



Model I



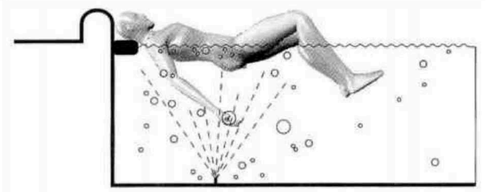
Model II

WATERFALL

Name	Model	Material	Width (mm)	Height (mm)
Model I	WL-C301	Stainless steel	500	1100
Model II	WL-C302	Stainless steel	500	900

HYDROTHERAPY EQUIPMENT

FLOAT
HYDROTHERAPY EQUIPMENT





Float box

Name	Model	Material	length x width (mm)	Height (mm)
Float box	WL-B301	Stainless steel	400x400	70



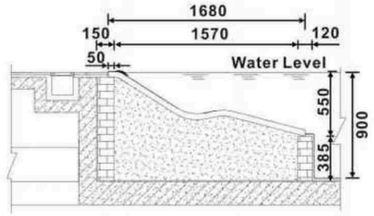


Air bubble box

Name	Model	Material	Diameter (mm)	Height (mm)
Air bubble box	WL-B201	Stainless steel	280	100
	WL-B202	Stainless steel	350	80

SPA BED





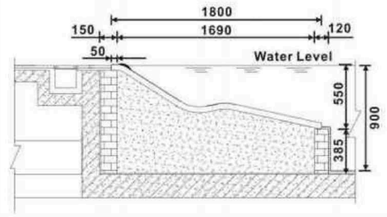
Model	Material	Length(mm)	Width(mm)
WL-SC101	Acryl	1680	600



WL-SC101

SPA BED
HYDROTHERAPY EQUIPMENT



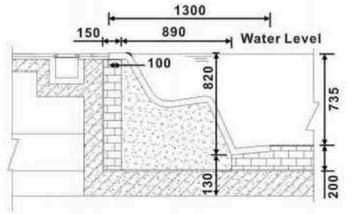




Model	Material	Length(mm)	Width(mm)
WL-SC201	Acryl	1800	750

WL-SC201



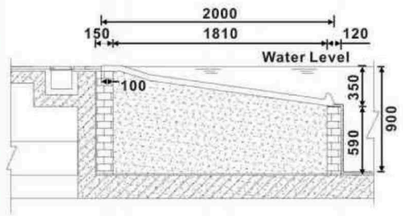




Model	Material	Length(mm)	Width(mm)
WL-SC301	Acryl	1300	700

WL-SC301



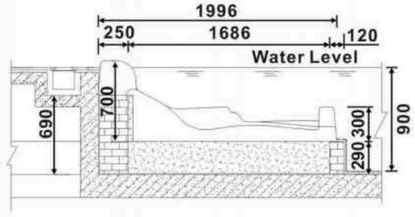




Model	Material	Length(mm)	Width(mm)
WL-SC401	Acryl	2000	725

WL-SC401







Model	Material	Length(mm)	Width(mm)
WL-SC501	Acryl	1996	880

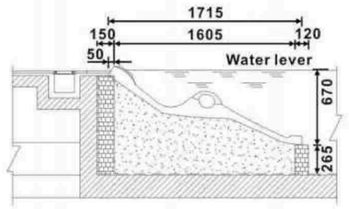
WL-SC501

SPA BED

HYDROTHERAPY EQUIPMENT



WL-SC601

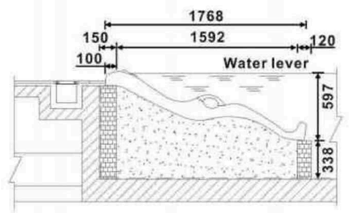




Model	Material	Length(mm)	Width(mm)
WL-SC601	Acryl	1770	710



WL-SC701

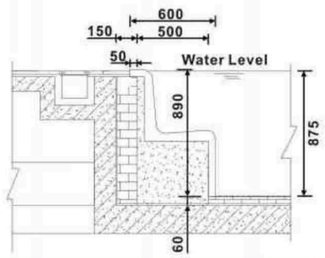




Model	Material	Length(mm)	Width(mm)
WL-SC701	Acryl	1800	750



WL-ZY101

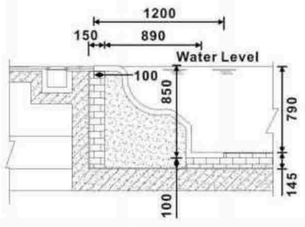




Model	Material	Length(mm)	Width(mm)
WL-ZY101	Acryl	890	550



WL-ZY201





Model	Material	Length(mm)	Width(mm)
WL-ZY201	Acryl	850	750

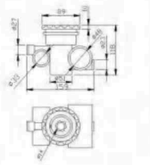
HYDROTHERAPY EQUIPMENT

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MILLION GOALS, MILLION SOLUTIONS

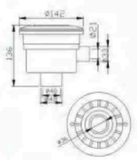
Pool fittings & Cleaners



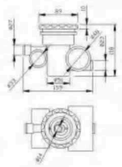
POOL FITTINGS

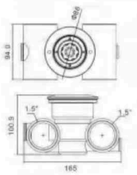
Products	Jet
Model	WL-APH02
Colour	White
Material	ABS

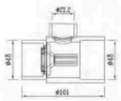
Products	Jet
Model	WL-APH03
Colour	White
Material	ABS

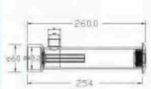
Products	Jet
Model	WL-AXP01
Colour	White
Material	ABS

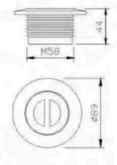
Products	Jet
Model	WL-BPH02
Colour	White
Material	ABS

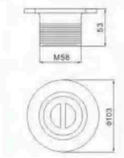
Products	Jet
Model	WL-ASL01
Colour	White
Material	ABS

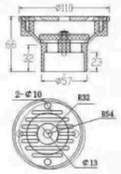
Products	Jet
Model	WL-ASL02
Colour	White
Material	ABS

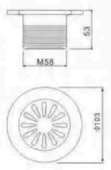
Products	Suction Head
Model	WL-ACW01
Colour	White
Material	ABS

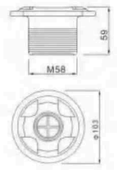
Products	Suction Head
Model	WL-ACW02
Colour	White
Material	ABS

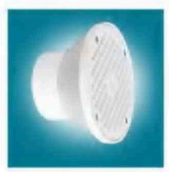
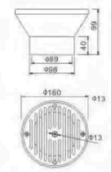
Products	Adjustable Inlet (1.5")
Model	WL-AJH01
Colour	White
Material	ABS

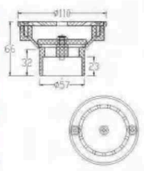
Products	Adjustable Inlet
Model	WL-AJH02
Colour	White
Material	ABS

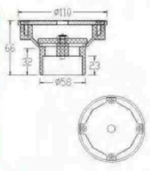
Products	Adjustable Inlet
Model	WL-AJH03
Colour	White
Material	ABS

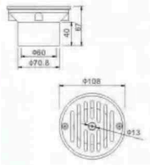
Products	Adjustable Inlet (3")
Model	WL-AJH31
Colour	White
Material	ABS

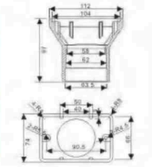
Products	Adjustable Inlet
Model	WL-AJH04
Colour	White
Material	ABS

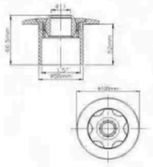
Products	Adjustable Inlet
Model	WL-AJH05
Colour	White
Material	ABS

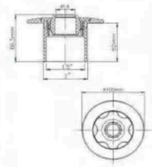
Products	Adjustable Inlet(2")
Model	WL-AJH21
Colour	White
Material	ABS

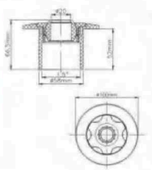
Products	Gutter Drain
Model	WL-AYK01
Colour	White
Material	ABS

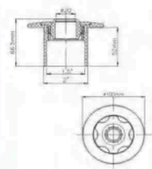
Products	Eyeball Inlet For Concrete Pool
Model	WL-EJH14C
Colour	White
Material	ABS

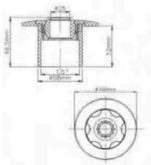
Products	Eyeball Inlet
Model	WL-EJH14V
Colour	White
Material	ABS

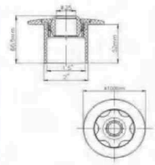
Products	Eyeball Inlet For Concrete Pool
Model	WL-EJH20C
Colour	White
Material	ABS

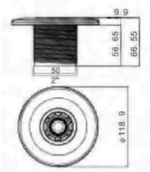
Products	Eyeball Inlet
Model	WL-EJH20V
Colour	White
Material	ABS

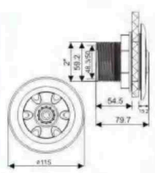
Products	Eyeball Inlet For Concrete Pool
Model	WL-EJH25C
Colour	White
Material	ABS

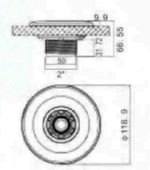
Products	Eyeball Inlet
Model	WL-EJH25V
Colour	White
Material	ABS

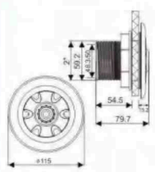
Products	Multiflow Wall Inlets
Model	PA00295C
Colour	White
Material	ABS

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

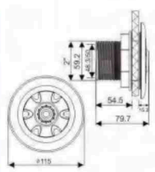
Products	Multiflow Wall Inlets
Model	PA00295V
Colour	White
Material	ABS

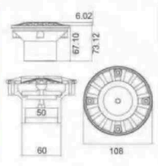
Products	Multiflow Wall Inlets
Model	WL-PJH20V
Colour	White
Material	ABS



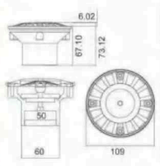

Products	Multiflow Wall Inlets for liner pool
Model	PA00330
Colour	White
Material	ABS

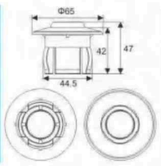
Products	Multiflow Wall Inlets
Model	WL-PJH25V
Colour	White
Material	ABS

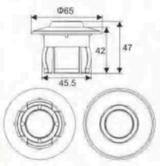
Products	Floor inlet
Model	PADF2825C
Colour	White
Material	ABS

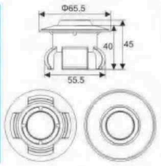
Products	Floor inlet
Model	PADF2825V
Colour	White
Material	ABS

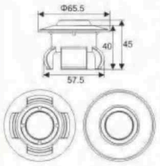
Products	Eyeball Jet
Model	ES25A
Colour	White
Material	ABS

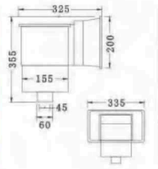
Products	Eyeball Jet
Model	ES25B
Colour	White
Material	ABS

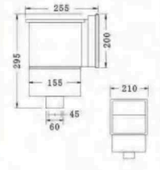
Products	Eyeball Jet
Model	ES25C
Colour	White
Material	ABS

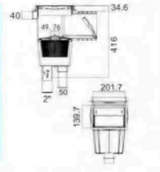
Products	Eyeball Jet
Model	ES25D
Colour	White
Material	ABS

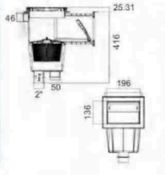
Products	Wide Mouth Wall Skimmer
Model	WL-APZ01
Colour	White
Material	ABS

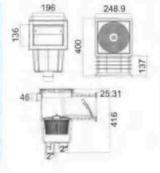
Products	Standard Wall Skimmer
Model	WL-APZ02
Colour	White
Material	ABS

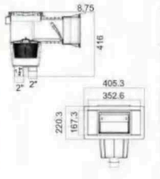
Products	Standard Skimmer
Model	PA00249C
Colour	White
Material	ABS

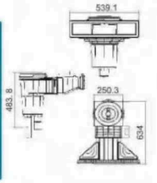
Products	Standard Skimmer
Model	PA00249V
Colour	White
Material	ABS

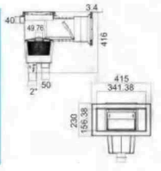
Products	Standard Skimmer
Model	PA00249.1V
Colour	White
Material	ABS

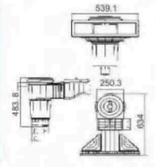
Products	Wide Mouth Skimmer
Model	PA00250C
Colour	White
Material	ABS

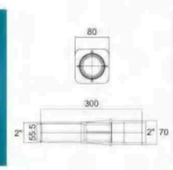
Products	Wide Mouth Skimmer
Model	PA00252C
Colour	White
Material	ABS

Products	Wide Mouth Skimmers
Model	PA00250V
Colour	White
Material	ABS

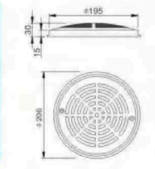
Products	Wide Mouth Skimmer
Model	PA00252.1V
Colour	White
Material	ABS

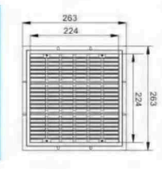
Products	Wall Conduit
Model	PA00324
Colour	Gray
Material	ABS

MAIN DRAINS

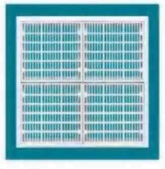
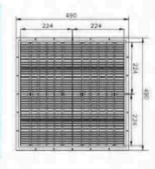
The main drains are available in a wide range of styles and sizes to satisfy any installation requirement of any concrete residential or commercial pools.These main drains are injection-molded of ABS, which resists chemical attack.

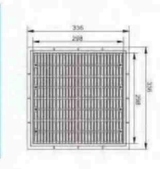
Products	Round Main Drain
Model	WL-ADP197
Colour	White
Material	ABS

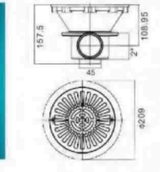
Model	WL-ADP263
Size	263X263mm
Colour	White
Thickness	35mm

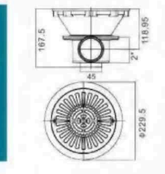
Model	WL-ADP490
Size	490X490mm
Colour	White
Thickness	66mm

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

Products	Drains
Model	PADF1467C
Colour	White
Material	ABS

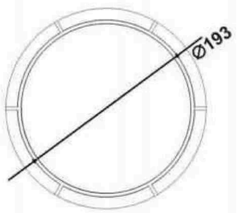



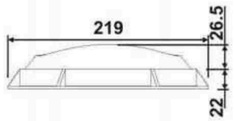
Products	Drains
Model	PADF1467V
Colour	White
Material	ABS

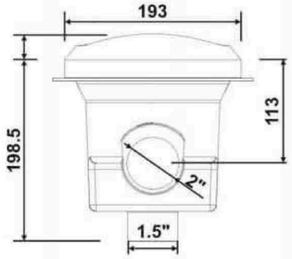
ANTI-SUCTION MAIN DRAINS
POOL FITTINGS & CLEANERS

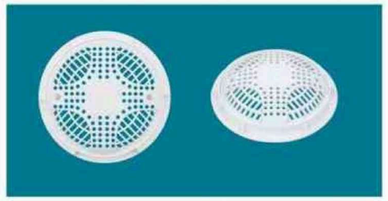
Features:

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

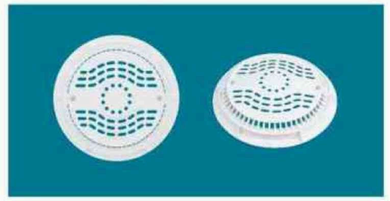








WL-JDP200AL



WL-JDP200BL



WL-JDP200AH



WL-JDP200BH

Model	Specification	Outlet	Cover Dia. (mm)	Height	Material	Max Flow Rate (m^3/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"

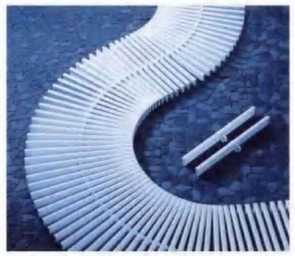


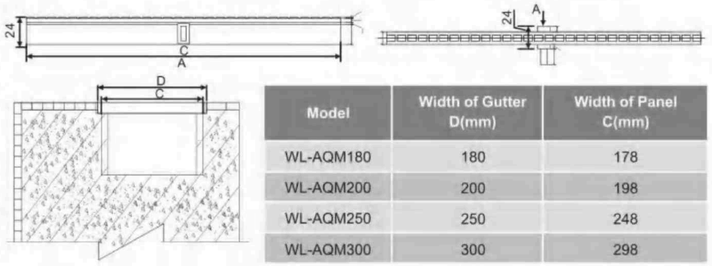
WL-FDP18"

Model	Size (inch/ mm)	Thickness (mm)	Material	Design Flow (m^3/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

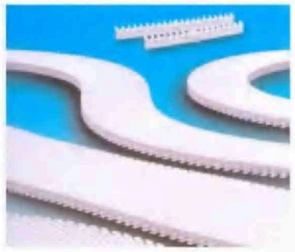
POOL FITTINGS & CLEANERS

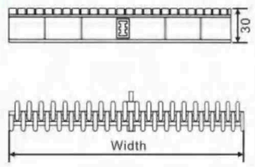
Gutter grating is molded in white UV resistant ABS. Top of grating features an anti-slip finish and it is composed of individual units connecting along a central spine. This design allows for easier installation without the need for cutting also allowing the grating to curve as necessary.



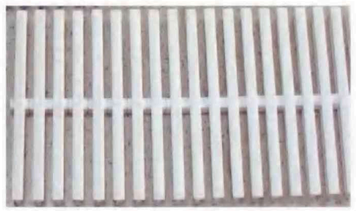


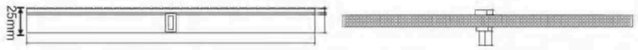
Model	Width of Gutter D(mm)	Width of Panel C(mm)
WL-AQM180	180	178
WL-AQM200	200	198
WL-AQM250	250	248
WL-AQM300	300	298



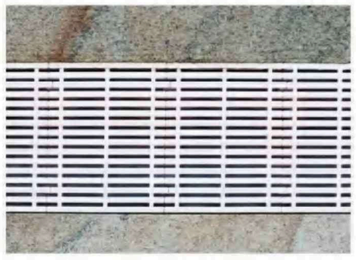


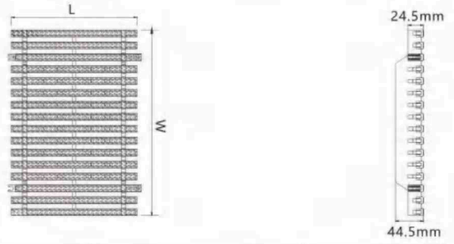
Model	Width of Gutter D(mm)	Material
WL-BQM180	180	ABS
WL-BQM250	250	ABS
WL-BQM300	300	ABS





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

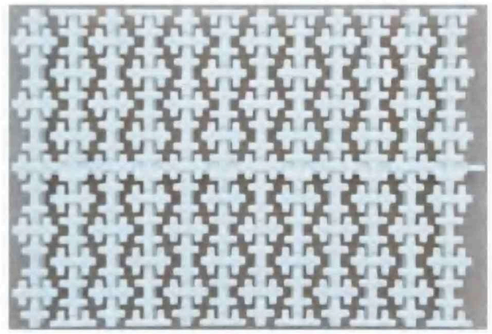


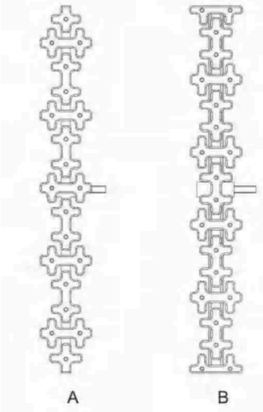


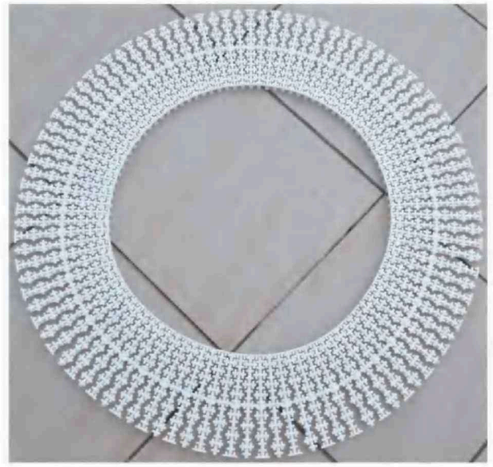
Model	Width×Length(mm)	Material
WL-DQM300	300×200	ABS
WL-DQM350	350×250	ABS
WL-DQM375	375×250	ABS

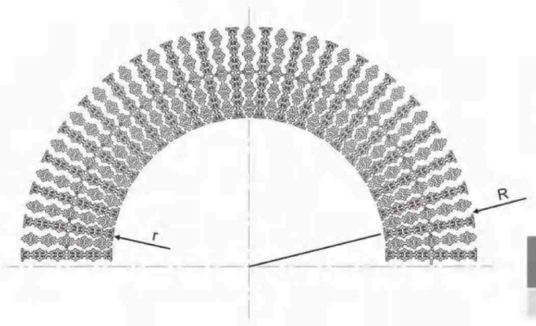
Features:

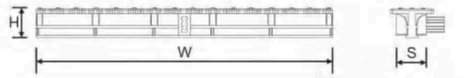
- Comply with the standard of EN-13451 and CJJ122-2008.
- Anti-slip, safe, supper strong, durable.
- UV-resistant, not easy to fade or break, longer using life.
- To be easy to install and flexible to meet a variety of different swimming pool specifications.
- Composed of Part A and Part B as below drawing, 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
POOL FITTINGS & CLEANERS



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

MILLIAN 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.

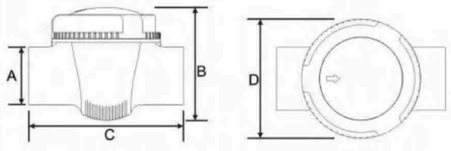
Features:

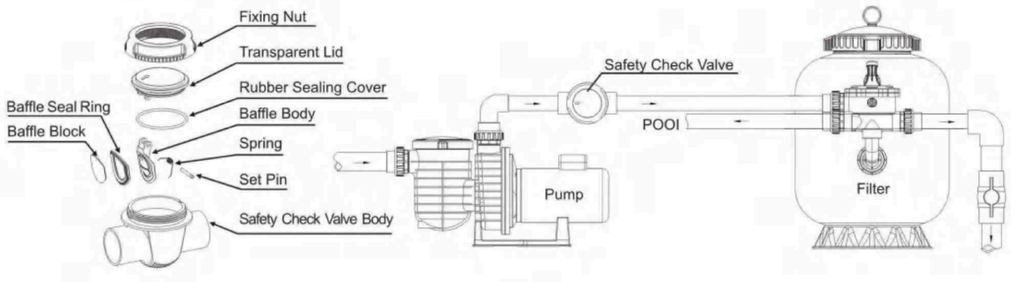
- Transparent lid, convenient to watch flow direction of water.
- Seal baffle and stainless steel spring with numerous tests ensure high performance and reliable quality.
- Being made of high quality engineering plastics, our Safety check valve is in high temperature resistance and corrosion resistance, which can adapt to acidic or alkaline fluid in temperature 5-50℃.
- Safety check valve in metric or imperial is optional, facilitating the installation.

WL-DZF50A/B

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



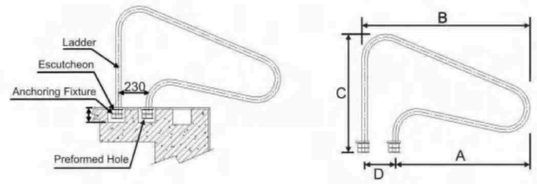


WL-DZF Series Exploded Drawing And Installation Diagram

LADDERS
POOL FITTINGS & CLEANERS

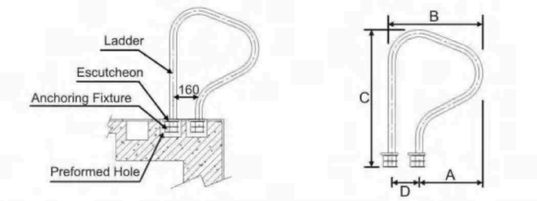
1. Grab Rails and Anchor Sockets
Closed rail design and constructed with polished Stainless Steel and Anchor Socket .





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

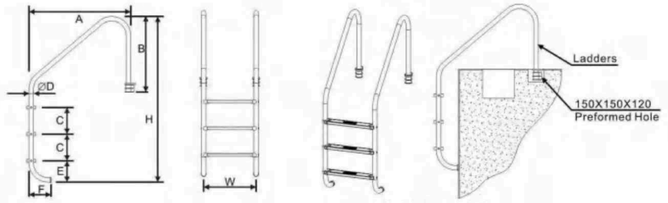




Model	A(mm)	B(mm)	C(mm)	D(mm)	Specification
WL-SRB	375	555	805	160	Φ42

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

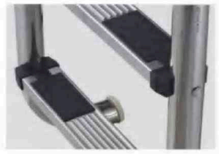
LADDERS

POOL FITTINGS & CLEANERS

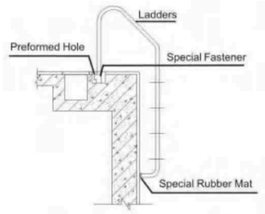
3. Ladders for embedded pools. Handrails in hand polished stainless steel pipe. Steps in stainless steel and anti-slip. Complete with anchoring fixtures and earth connection. Easy installation (with diameter 42mm) .

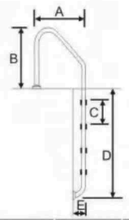


Anti-Slip Steps



Anti-Slip Steps

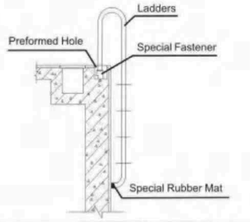


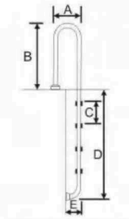






Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	Specification
WL-SL202	592	700	250	600	180	500	Φ42
WL-SL203	592	700	250	850	180	500	
WL-SL204	592	700	250	1100	180	500	
WL-SL205	592	700	250	1350	180	500	

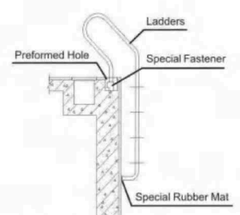


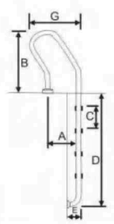






Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	Specification
WL-MC202	314	700	250	600	180	500	Φ42
WL-MC203	314	700	250	850	180	500	
WL-MC204	314	700	250	1100	180	500	
WL-MC205	314	700	250	1350	180	500	









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	

POOL FITTINGS & CLEANERS

VACUUM HEADS. & JET VACS.



Model: 1002
Economy liner Vac Head



Model: 1005
Deluxe large vac.
Head cast iron weighted w/side brush



Model: 1001
Deluxe liner Vac.
Head with bumper(cast iron weighted)



Model: 1003
Triangular liner vac head w/ swivel



Model: 1004
Deluxe triangular transparent cast iron weighted vac head



Model: 1007
Flexible vacuum head for in- ground pool



Model: 1008
Flexible vacuum head w/ side brush for in- ground pool



Model: 1010
Flexible Vac head with Pressure release and EZ-Clip



Model: 1011
Vac head with 4 wheels ,Alu body , plastic handle(34.5*13cm)



Model: 1012
Deluxe large Vac head ,4 wheels , Alu body,plastic handle(44.5*13cm)



Model: 1101
Economy jet vacuum w/brush for small above group pool



Model: 1103
Jet vac kit w/ 5 section pole of 48"/120cm



Model: 1105
Deluxe large Jet vac with brush for spa &splasher



Model: 1104
Jet vac kit w/3 section pole of 52"/135cm

BRUSHES.



Model: 1404
10"/26cm Hi-grade Stainless steel algae brush



Model: 1405
18"/45cm Deluxe wall brush with aluminum back



Model: 1403
18"/45cm Deluxe stainless steel algae brush w/ Alu back



Model: 1401
18"/45cm standard curved polybristle wall brush



Model: 1402
10"/26cm polybristle wall brush



Model: 1409
Scrubber pad brush



Model: 1410
Finger brush



Model: 1408
Flexible brush w/ Alu handle EZ-clip and extra bristle



Model: 1407
Water line scrub pad with detergent tank and EZ-clip

CHEMICAL DISPENSERS & TEST KITS.



Model: 1503
Chemical dispenser for 3" tablets



Model: 1501
Deluxe large chemical dispenser for 3" tablets



Model: 1505
Chemical dispenser for 1 1/2" tablets



Model: 1907
Basic PH &CL test kit



Model: 1908
Test kit refill bottle (20 C.C.)

POOL FITTINGS & CLEANERS

LEAF SKIMMERS.



Model: 1301
Standard leaf skimmer



Model: 1302
Heavy duty Plastic leaf skimmer w/ long wearing mesh



Model: 1303
Aluminum leaf skimmer (blue anodized handle)



Model: 1305
Professional heavy duty aluminum leaf skimmer



Model: 1306
Leaf skimmer with aluminum frame and plastic handle



Model: 1201
Economy deep dag skimmer



Model: 1202
Economy deep bag skimmer with aluminum handle



Model: 1203
Aluminum frame deep rake(Bule anodized handle)



Model: 1204
Heavy duty plastic leaf rake with long wearing mesh



Model: 1205
Professional heavy duty deep rake w/aluminum frame



Model: 1307
Leaf skimmer w/aluminum pole of 48"-122cm in 5 section



Model: 1310
Leaf skimmer w/ 60"- 150cm aluminum pole



Model: 1309
Leaf skimmer w/ 48"- 122cm aluminum pole



Model: 1308
Leaf skimmer with 3X14"-35cm telescopic pole

HOSE

HOSE



Model	Description
WL-BXG01	Extruded PE. ∮ 1 1/ 2 " - 7M
WL-BXG02	Extruded PE. ∮ 1 1/ 2 " - 9M
WL-BXG04	Extruded PE. ∮ 1 1/ 2 " - 13M
WL-BXG05	Extruded PE. ∮ 1 1/ 2 " - 15M
WL-BXG06	Extruded PE. ∮ 1 1/ 2 " - 30M
WL-BXG07	Extruded PE. ∮ 1 1/ 2 " - 50M

HOSE



Model	Description
3203	Vacuumhose ∮ 1/4 ", 1m persection-36m
3803	Vacuumhose ∮ 1/2 ", 1m persection-36m
3204	Vacuumhose ∮ 1/4 ", 1m persection-50m
3804	Vacuumhose ∮ 1/2 ", 1m persection-50m

HOSE



Model	Description
3206	Spiralwound EVA. ∮ 11/ 4 " -6M
3209	Spiralwound EVA. ∮ 11/ 4 " -9M
3212	Spiralwound EVA. ∮ 11/ 4 " -12M
3809	Spiralwound EVA. ∮ 11/ 2 " -9M
3811	Spiralwound EVA. ∮ 11/ 2 " -11M
3813	Spiralwound EVA. ∮ 11/ 2 " -13M
3815	Spiralwound EVA. ∮ 11/ 2 " -15M

Telescopic Poles.



Model	Description
2212	2X120 cm Ribbed pole-0.8mm thick
2224A	2X240 cm Ribbed pole-0.8mm thick
2312	3X120 cm Ribbed pole-0.8mm thick
2330A	3X300 cm Ribbed pole-0.8mm thick
2224B	2X240 cm Ribbed pole-1.1mm thick
2230	2X300 cm Ribbed pole-1.1mm thick
2330B	3X300 cm Ribbed pole-1.1mm thick

THERMOMETERS.



Model: 2908
Swivel Cuff for vacuum hose(1pc)



Model: 1601
Economy thermometer



Model: 1602
Large thermometer



Model: 1603
Jim Buoy thermometer



Model: 1605
Deluxe round thermometer



Model: 1604
Deluxe floating thermometer with string attachment



Model: 1607
Jumbo easy read thermometer



Model: 1610
Floatling animal thermometer in 4 styles



Model: 1611
Floatling cool pool animal thermometer in 3 styles

FOUNTAINS & SPARE PARTS



Model: 1708
Waterfall fountain



Model: 1709
Flower waterfall fountain



Model: 1725
Plastic pole hanger (2pcs) w/screws



Model: 2902
Quick snap butterfly clips (4PCS)



Model: 2021
Complete return inlet



Model: 2901
Standard vacuum head handle



Model: 2904
Replacement bag for Jet Vac head



Model: 3861
Hose Reel-carries vacuum hose up to 13m in length



Model: 1809
Automatic pool cleaner 10pcs*100 cm/pchose included(standard)



Model: 1811
Automatic pool cleaner 10pcs*100 cm/pc hoseincluded(standard)



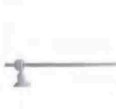
Model: 2903
Long lock pin for vacuum handle (4PCS)



Model: 2905
NPT tie-in for American standard (2PCS)



Model: 2906
BSPT tie-in for European standard (2PCS)



Model	Description
1717	Above ground pool cover reel W/ABS frame for ∅ 3-1/4 " &1-1/2 " tubes(not include AL pole)
2321	Pole for 8341, 3*2.1m (hexagonal)
2327	Pole for 8341, 3*2.7m (hexagonal)
2335	Pole for 8341, 3*3.55m (hexagonal)



Model	Description
1718	Above ground pool Solar Reel System(not include AL pole)
2321	Pole for 8342, 3X2.1M
2324	Pole for 8342, 3X2.44M

SWIM CURRENT MACHINE & FILTRATION UNITS



WL-MPU12

Millian
MILLION GOALS, MILLION SOLUTIONS

WL-MPU

MILLIAN SWIM CURRENT MACHINE

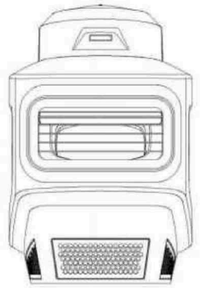


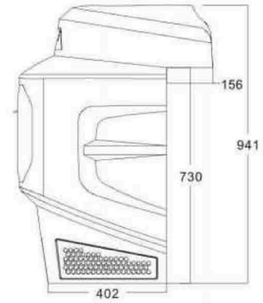
Adopting a number of high-tech technologies in pool water treatment and spa projects, **MILLIAN** swim current machine is integrated the advanced and practical water environment equipment, making the construction of private swimming pools easier and faster, and making swimming and fitness experience more professional and perfect.

Main features:

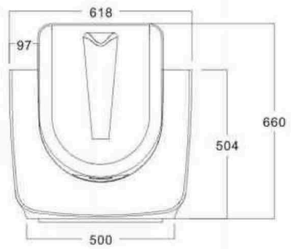
- Unlimited swimming
- 99-speed shift mode
- Laminar flow technology
- Waterproof remote control
- DC36V safe voltage
- Wall mounted installation
- Fashion, smart , compact
- High quality acrylic shell











Model	Power supply (V)	Working voltage (V)	Input power (kW)	Rated power (kW)	Laminar outlet (mm)	Max flow (m^3/h)	Max speed (m/min)	Dimension (mm)
MPU12	220V	DC36	2	1.2	460×215	719	150	660×618×941

WL-RPU

WALL MOUNTED UNLIMITED SWIMMING MACHINE

Having accumulated many years of advanced technology and practical experience in the field of pool industry, to improve the swimmers' swimming experience and life quality, **MILLIAN** creatively has developed wall mounted unlimited swimming machine which is suitable for different sizes of pools.

Infinite variable speeds could be adjusted according to swimmers' demand by controller or WeChat applet.

Main features:

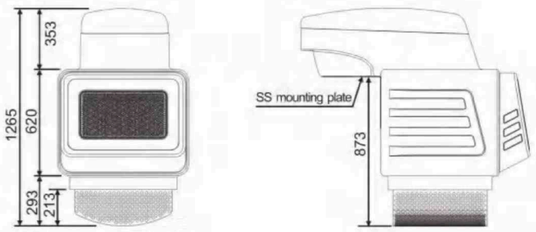
- Easy to install. Just hung on pool wall with 4pcs fixed screws.
- Safety performance. Work with low-voltage as DC36V.
- Operate with low noise, no vibration.
- Can be installed in the pool with a depth of 0.9m.
- Innovative and fashionable design, pretty and compact.
- Manufactured by environmental, UV-resistance, corrosion resistant materials.
- Suitable for reconstructive old pools or new pools in different sizes.

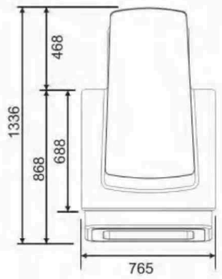


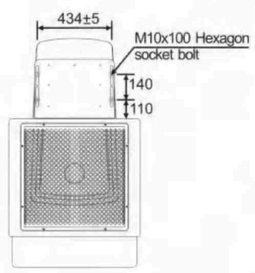
Standard

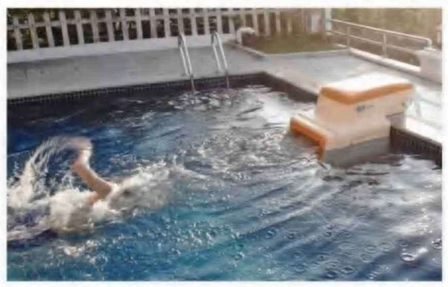


Optional









Model	Power supply (V)	Working voltage (V)	Input power (kW)	Rated power (kW)	Laminar outlet (mm)	Max flow (m^3/h)	Max speed (m/min)	Dimension (mm)
RPU20	220V	DC36	3.0	2.0	500 x 280	1000	186	1336 x 765 x 1265
RPU25	220V	DC36	4.0	2.5	500 x 280	1300	240	1336 x 765 x 1265

WL-AYT25Y

WALL-HUNG FILTRATION UNIT



WL-AYT25Y

The housing is made of high quality acryl , the unit is easy to install and contains all the equipment for filtration, circulation, disinfection, drainage and lighting in one compact unit. It is also equipped with a multifunctional jet which not only makes the pool water circulate, but also has functions for swimming training, massage and fun in the water.

Installation:

- Clear away any debris from the installation area, and make a datum mark before installation.
- Place the unit in a proper position according to the installation detail drawing. Adjust the unit with a level to make sure the tolerance is less than 2mm. Use the filler pieces to pack the unit level, fix the packing pieces, then fill in the vacant area with grout.
- Connect drainpipe and cable pipe as shown in the installation detail drawing. The control box must be damp-proofed. Electrical installation and testing must be done by a licensed or certified electrician.
- Fill in the joint between the unit and pool wall with grout when installing, and seal it with sealant.
- After installation, fill with sand around the unit board.Spread stones on the side of pool to match the pool structure, record the installation notes.



Pool Light



Swim Jet



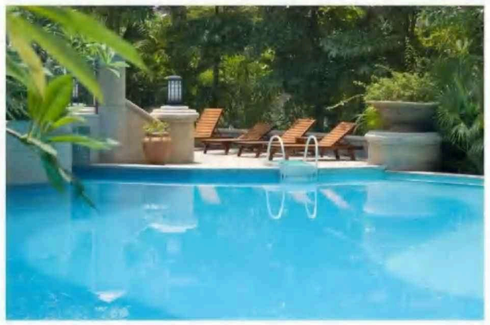
Filter Bag



Filter basket



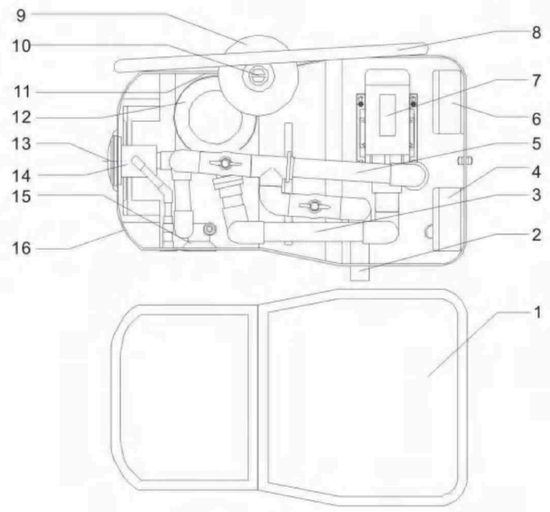
Electronic control system (Optional)





Pump(HP)	Voltage(V)	Flow Rate	Filter Precision	Filter Area	Noises	Outline Size
2.0HP	220V	25m^3/h	≤5μ	0.297m^2	≤40dB	1120×684×1080mm

Installation process

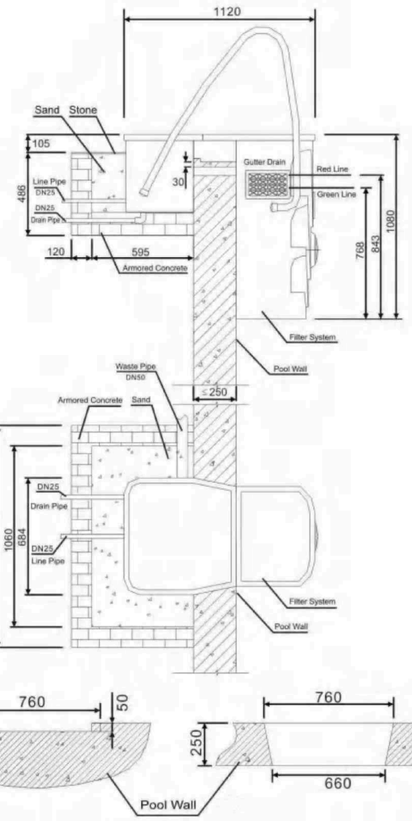


Fabrication Diagram

1) Cover
2) Drain Pipe
3) Water Inlets
4) Ozone Generator (optional)
5) Water Outlets
6) Junction Box
7) Pump
8) Stainless Steel Armrest
9) Vacuum System
10) Vacuum Point
11) Inlet
12) Filter
13) Underwater Light
14) Swim Jet
15) Air and Water Hydro Jet Assembly
16) Housing

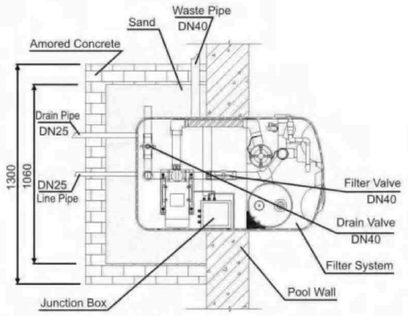


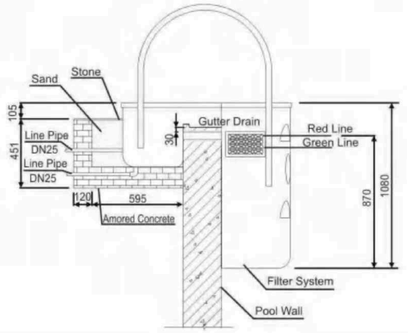






PM-GL25Y



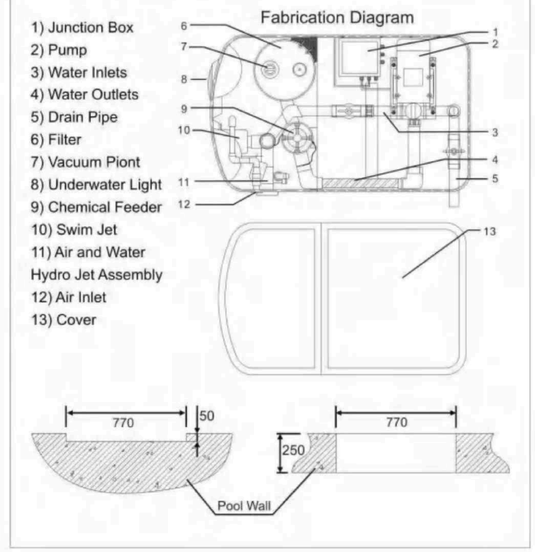


PM-GL25Y

WALL-HUNG FILTRATION UNIT

The housing is made of high quality acryl , the unit is easy to install and contains all the equipment for filtration, circulation, disinfection, drainage and lighting in one compact unit. It is also equipped with a multifunctional jet which not only makes the pool water circulate, but also has functions for swimming training, massage and fun in the water.

1) Junction Box
2) Pump
3) Water Inlets
4) Water Outlets
5) Drain Pipe
6) Filter
7) Vacuum Piont
8) Underwater Light
9) Chemical Feeder
10) Swim Jet
11) Air and Water Hydro Jet Assembly
12) Air Inlet
13) Cover





Pump(HP)	Flow Rate	Filter Precision	Filter Area	Noises	Outline Size
2.0HP	22m³/h	≤5μ	0.297m²	≤50dB	1725×1112×684mm

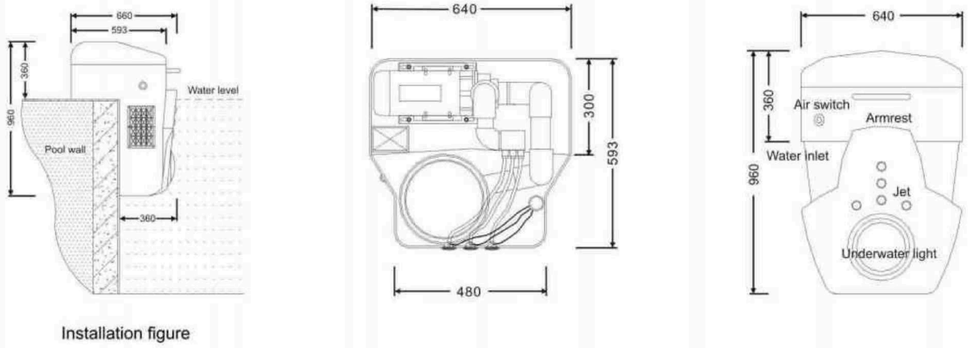
WL-GYT10Y

WALL-HUNG FILTRATION UNIT

The housing is made of high quality acryl, the unit is easy for installation and assembles all the equipment of filtration, circulation, drainage and lighting in one compact unit. It is also equipped with multifunctional jet which not only makes the pool water circulate, but also has functions of swimming training, massage and fun in water. Extra fit for children pools.



WL-GYT10Y



Installation figure





Pump(HP)	Voltage(V)	Flow Rate	Filter Precision	Filter Area	Noises	Outline Size
1.2HP	220V	10~13m³/h	≤5μ	0.26m²	≤40dB	640x660x960mm

WL-GMT/ WL-MMT/ WL-DMT

FILTRATION UNITS



WL-GMT /MMT/DMT

Filtration unit is one of the best choices for swimming pool. It is in good appearance, easy to operate and long-time use. Different models could be chosen according to different size of swimming pools and actual demand.

WL-DMT

- Easy to operate, no need the equipment room and special maintenance.
- Adopts high precious of sand filter.
- With good performance pump.
- More economical because of simple disinfecting equipment-chemical feeder.

WL-DMT parameter

Model	Horsepower (HP)	Voltage (V)	Flow Rate (m³/h)	Filter area (m²)	Pool volume (m³)	Outline size (mm)
WL-DMT-8	0.75	220~240	8	0.16	≤64	1320×1340×985
WL-DMT-12	1		12	0.23	≤92	
WL-DMT-16	1.5		16	0.32	≤128	
WL-DMT-20	2.0		20	0.4	≤160	1550×1560×1135
WL-DMT-25			25	0.5	≤200	

WL-DMT Specification

Model	Main parts
WL-DMT-8	BCG450 sand filter + 0.75HP pump + chemical feeder
WL-DMT-12	BCG500 sand filter + 1HP pump + chemical feeder
WL-DMT-16	BCG650 sand filter + 1.5HP pump + chemical feeder
WL-DMT-20	BCG700 sand filter + 2HP pump + chemical feeder
WL-DMT-25	BCG800 sand filter + 2HP pump + chemical feeder





WL-GMT /MMT/DMT

WL-MMT

- The progressive filtration unit adopts professional sand filter, high efficiency pump and salt-chlorine generator, 3HP massage pump and submersible pump.
- 3HP massage pump makes the filtration unit more powerful.
- Equipped with submersible pump, avoiding the security risk that caused by accumulated water in tank.
- Equipped with salt-chlorine generator, the most effective and high-tech equipments.

WL-MMT parameter

Model	Horsepower (HP)	Voltage (V)	Flow Rate (m^3/h)	Filter area (m^2)	Pool volume (m^3)	Outline size (mm)
WL-MMT-8	0.75	220~240	8	0.16	≤64	1320×1340×985
WL-MMT-12	1		12	0.23	≤92	
WL-MMT-16	1.5		16	0.32	≤128	
WL-MMT-20	2.0		20	0.4	≤160	1550×1560×1135
WL-MMT-25			25	0.5	≤200	

WL-MMT Specification

Model	Main parts
WL-MMT-8	BCG450 sand filter + HLLF075M circulation pump + HLLF300M Massage pump + submersible pump + EC8 salt chlorinator
WL-MMT-12	BCG500 sand filter + HLLF100M circulation pump + HLLF300M Massage pump+ submersible pump + EC12 salt chlorinator
WL-MMT-16	BCG650 sand filter + HLLF150M circulation pump+ HLLF300M Massage pump + submersible pump + EC16 salt chlorinator
WL-MMT-20	BBCG700 sand filter + HLLF200M circulation pump+ HLLF300M Massage pump + submersible pump + SQ30 salt-chlorinator
WL-MMT-25	BCG800 sand filter + HLLF200M circulation pump+ HLLF300M Massage pump + submersible pump + SQ40 salt chlorinator

WL-GMT/ WL-MMT/ WL-DMT
FILTRATION UNITS

WL-GMT

- Adopts **MILLIAN** pump with high performance and low noise.
- With submersible pump to avoid the hazardous of flood in filtration box.
- Adopts high-tech disinfecting equipment, such as salt chlorine generator and UVsterilizer.
- Could be used for swimming pool, hot spring and SPA in different sizes and various shapes.

WL-GMT parameter

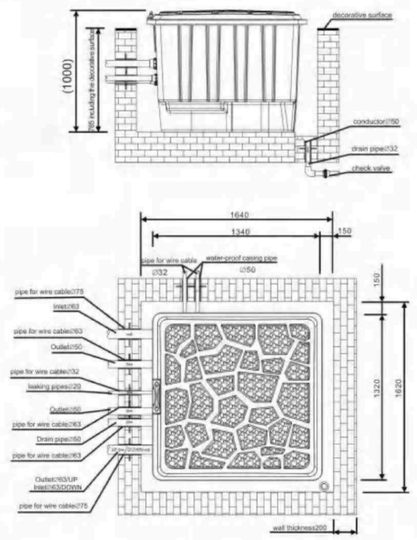
Model	Horsepower (HP)	Voltage (V)	Flow Rate (m^3/h)	Filter area (m^2)	Pool volume (m^3)	Outline size (mm)
WL-GMT-8	1.5	220~240	8	0.16	≤64	1320×1340×985
WL-GMT-12			12	0.23	≤92	
WL-GMT-16			16	0.32	≤128	
WL-GMT-20	2.0		20	0.4	≤160	1550×1560×1135
WL-GMT-25			25	0.5	≤200	

WL-GMT Specification

Model	Main parts
WL-GMT-8	BCG450 sand filter+0.75HP Circulation pump+ 3HP massage pump+ EC8 salt chlorinator + 28W UV Sterilizer+ submersible pump
WL-GMT-12	BCG500 sand filter+1.0HP Circulation pump+ 3HP massage pump+ EC12 salt chlorinator + 28W UV Sterilizer+ submersible pump
WL-GMT-16	BCG650 sand filter+1.5HP Circulation pump+ 3HP massage pump+ EC16 salt chlorinator + 28W UV Sterilizer+ submersible pump
WL-GMT-20	BCG700 sand filter+2HP Circulation pump+ 3HP massage pump+ SQ30 salt chlorinator + 28W UV Sterilizer+ submersible pump
WL-GMT-25	BCG800 sand filter+2HP Circulation pump+ 3HP massage pump+ SQ40 salt chlorinator + 28W UV Sterilizer+ submersible pump

Remark: Please refer to the relevant page of this information for details and performance of the product in the above table.

1、WL-GMT-8/12/16 INSTALLATION DIAGRAM



2、WL-GMT-20/25 INSTALLATION DIAGRAM

