

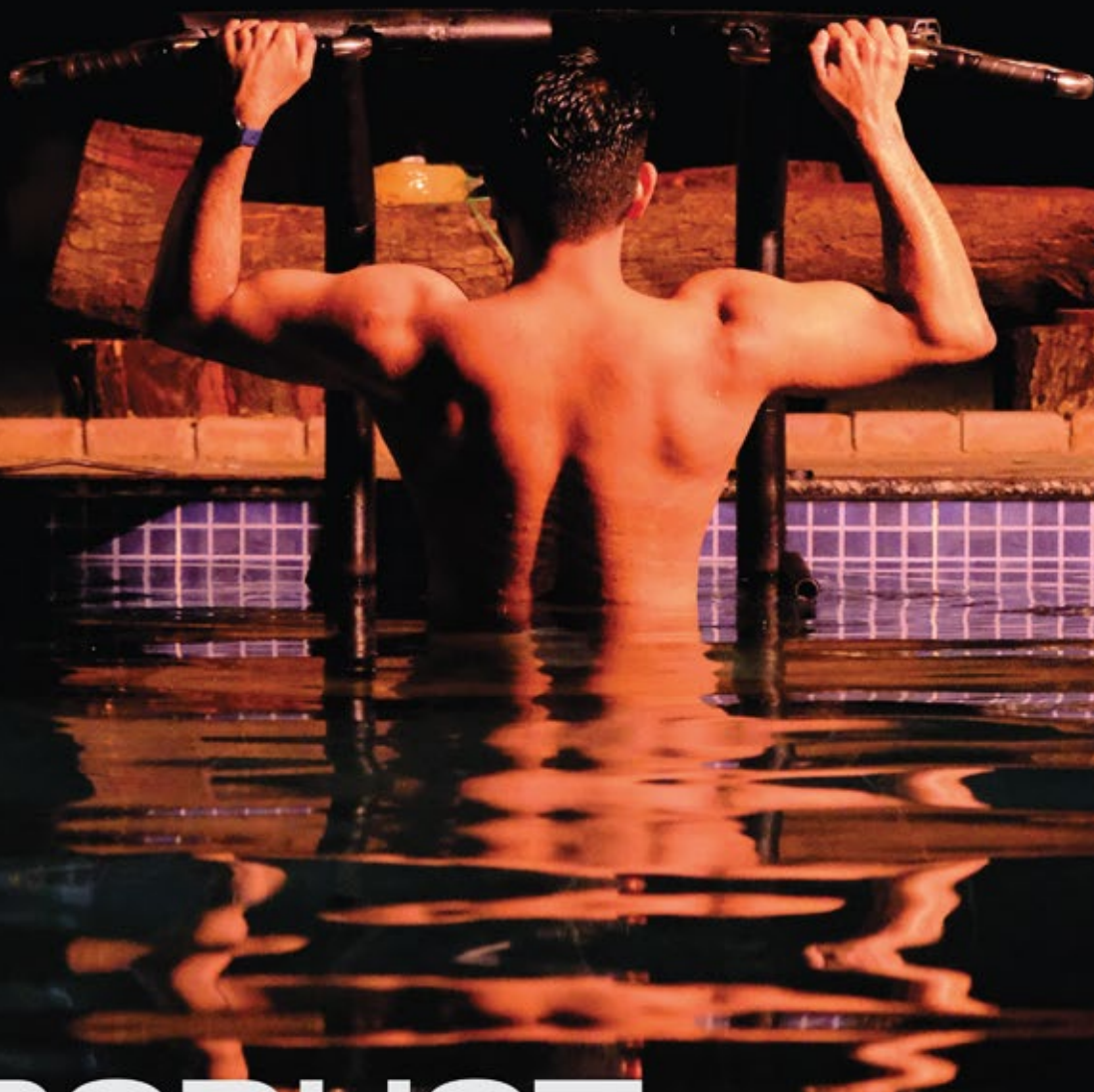


DIVE INTO

AQVASTAR

A COMPETENT PARTNER

REDEFINE FITNESS,
UNVEILING THIS YEAR



PRODUCT CATALOGUE 2025

10 years

ANNIVERSARY
CELEBRATION

A DECADE OF EXCELLENCE, INNOVATION, AND INTEGRITY

AQVASTAR – YOUR TRUSTED PARTNER IN SWIMMING POOLS, FOUNTAINS AND IRRIGATION

This year, we proudly celebrate 10 years of redefining the swimming pool industry in India. From humble beginnings to becoming a market leader, Aqvastar has been at the forefront of delivering quality, innovation and trust to our partners and customers.

EXCELLENCE IS BEST JUDGED BY THOSE WHO ACHIEVED IT.

At Aqvastar, we don't just build pools. We build long-term investments in quality and performance.

OUR JOURNEY SO FAR



DREAM BIG. DREAM POOLS.

With Aqvastar, your pool dreams become a reality. From creating breathtaking swimming pools to revolutionizing water treatment and management systems, we are your competent partner in excellence.

Here's to a future filled with innovation, trust and growth!

A DECADE OF EXCELLENCE IN LEADING INDIAN POOLS!

Mission

We strive to exceed our customer's expectations by identifying the right products and technology to build and maintain their dream pools and wellness.

Vision

As we achieve our vision of becoming 'The most trusted brand of India' by 2025, we aim to lead the industry by prioritizing quality and safety above all else.

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All European range with highest warranty

CONVERSION CHART

Length

	Into	Multiply by
Micron	Metres (m)	0.0001
Inches (in)	Millimetres (mm)	25.4
Millimetres (mm)	Inches (in)	0.02937
Inches (in)	Centimetres (cm)	2.54
Centimetres (cm)	Inches (in)	0.3937
Feet (ft)	Metres (m)	0.3048
Metres (m)	Feet (ft)	3.2808

Area

	Into	Multiply by
Square Inches	Square Centimetres (cm ²)	6.452
Square Centimetres (cm ²)	Square Inches (in ²)	0.155
Square Metres (m ²)	Square Feet (Ft ²)	10.764
Square Feet (ft ²)	Square Metres (m ²)	0.0929
Square Metres (m ²)	Feet (ft)	0.000247
Acres	Square Metres (m ²)	4046.86
Hectares	Square Metres (m ²)	10
Acres	Hectares	0.4047
Hectares	Acres	2.471

Weight /Mass

	Into	Multiply by
Pounds (lb)	Grams (g)	453.59237
Grams (g)	Pounds (lb)	0.0022046
Pounds (lb)	Kilograms (kg)	0.45359
Kilograms (kg)	Pounds (lb)	2.20462
Tons	Kilograms (kg)	1016.05

Pressure

	Into	Multiply by
Tons per Square Inch	Kg Per Square inch	1.575
Kg Per Square Millimetres	Tons per Square Inch	0.635
Bar	Psi	14.504
Psi	Bar	0.0689
Kg Per Square Centimeters	Meter of Head	10
Meter of Head	Kg Per Square Centimeters	0.1

Power

	Into	Multiply by
Horse Power (hp)	Watts (W)	746
Watts (W)	Horse Power (hp)	0.00134
Kilowatts (kW)	BTU	3412
BTU	Kilowatts (kW)	0.000293

CONVERSION CHART

Temperature

	Into	Multiply by
Centigrade (°C)	Fahrenheit (°F)	$(^{\circ}\text{C} \times 1.80 + 32)$
Fahrenheit (°F)	Centigrade (°C)	$(^{\circ}\text{F} - 32 \times 0.5555)$

Capacity/Volume

	Into	Multiply by
Cubic Inches	Cubic Centimetres (cm ³)	16.387
Cubic Centimetres (cm ³)	Cubic Inches	0.06102
Cubic Feet (ft ³)	Cubic Metres (m ³)	0.0283
Cubic Metres (m ³)	Cubic Feet (ft ³)	35.3147
US Gallons	Litres (L)	3.785
Litres (L)	US Gallons	0.2642
Cubic Inches	Litres (L)	0.01639
Litres (L)	Cubic Inches	61.013
Pounds of Water (lb)	Cubic Feet (ft ³)	0.016
Cubic feet of water (ft ³)	Pounds (lb)	62.72
Gallons of water (gal)	Pounds (lb)	10
Pounds of Water (lb)	Gallons (gal)	0.1
Cubic feet of water (ft ³)	Gallons (gal)	6.24
Gallons of water (gal)	Cubic Feet (ft ³)	0.1602
Cubic Metres of water (m ³)	Gallons (gal)	220

Speed

	Into	Multiply by
Feet Per Second	Meter Per Second	0.3048
Meter Per Second	Feet Per Second	3.2808

Pump Conversion Values

	Into	Multiply by
0.5 hp	3 amps	0.375 kW
0.75 hp	5 amps	0.56 kW
1 hp	6 amps	0.75 kW
1.5 hp	7 amps	1.12 kW
2 hp	10 amps	1.5 kW

Pool Capacity / Volume Calculation

Measure the Length (L), Width (W) and average water depth (D)

Square or Rectangular Pools:	Metric = $L \times W \times D \times 1 \text{ m}^3$
Round or Oval Pools:	Metric = $\emptyset \times \emptyset \times D \times 0.8 \text{ m}^3$

Maximum flow rates through pipe

	Suction	Return
1.00" Class C	14 GPM	23 GPM
1.50" Class C	34 GPM	57 GPM
2.00" Class C	54 GPM	90 GPM

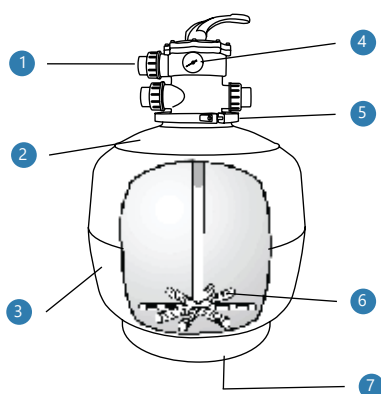
FILTRATION SYSTEM

High Performance Sand Filter - Top Mounted

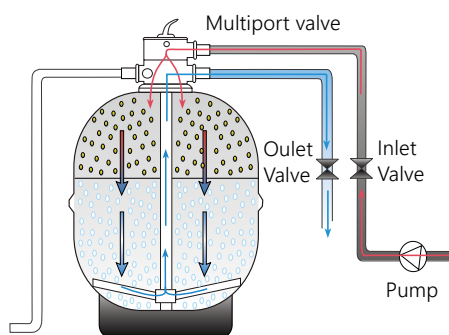
ACCESSORIES



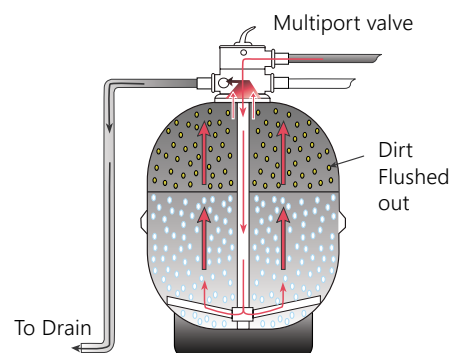
TANK



5 years warranty with Praher MPV
(price varies)



Filtration mode



Backwash mode

High performance top mounted sand filters are manufactured with polyester and glass fiber winding for dependable, durable and all weather operation.

They are economic, but with impressive performance for private pool and Jacuzzi.

FEATURES:

- UV and corrosion resistant.
- Shell thickness over 6mm.
- Hydraulically balanced umbrella - fold laterals for balanced flow, back washing and easy maintenance.
- Multi-port 6-way valve (clamps/bolts mounted) with lever-action handle comes with quick connect unions.
- Integral sight glass for watching backwash cycle.
- Manometer, air-bleed apparatus for monitoring and varying the pressure of filtration system.
- Sand/water drain for rapid winterizing or servicing.
- Maximum working pressure: 2.5 bar. (4.0 bar available on request)
- Test pressure : 4.0 bar (6.0 bar for 4.0 bar filter)
- Maximum working temperature: 50 degC
- Product with guarantee for structural integrity & the longevity.

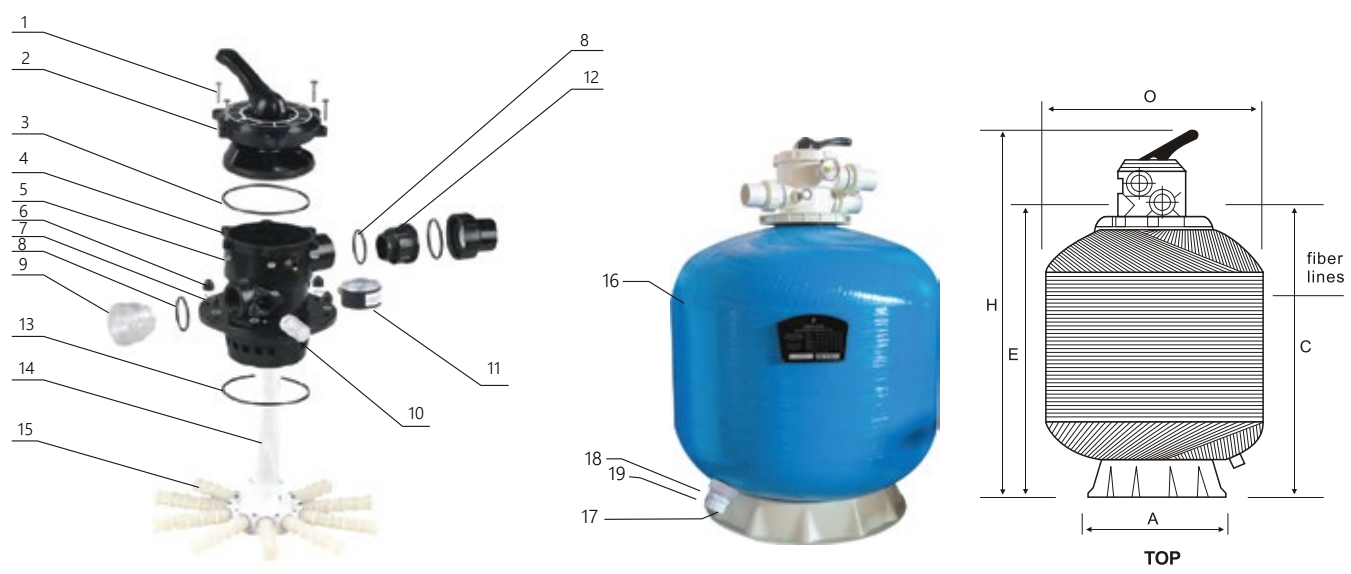
DIAGRAM

1. Multiport valve with quick connect barrel unions with BS/ASTM connections
2. Non-corrosive design
3. Special polymer construction
4. Clear Sightglass for backwash inspection
5. Multiport valve clamp ensures easy orientation of the Multiport valve and eliminates the risk of cross threading. (For model upto 700mm dia filter) (For larger filters, nut & bolt is provided)
6. Hydraulically balanced laterals to maximise water flow & filtration
7. Threaded base for easy maintenance

Functions of 6 way (Multi-port) valve

- | | | |
|-------------|-----------------|----------|
| 1. Filter | 2. Waste | 3. Close |
| 4. Backwash | 5. Re-circulate | 6. Rinse |

FILTRATION SYSTEM



TECHNICAL SPECIFICATION

Ref. Code	Diameter (O)	Connection	Flow	Surface Area	Gravel / Sand weight		Pressure	H	A	C	E
	mm	mm	m ³ /h	m ²	kg		kg/cm ²	mm	mm	mm	mm
AS400T	400	48/50	6.50	0.13	25	50	2.5	770	320	503	554
AS500T	500	48/50	10.00	0.20	25	75	2.5	860	390	600	654
AS650T	650	48/50	16.00	0.32	50	150	2.5	960	565	700	754
AS700T	700	48/50	19.00	0.38	50	200	2.5	1030	690	770	824
AS800T	800	50/63	25.00	0.50	75	250	2.5	1140	790	840	902
AS900T	900	50/63	32.00	0.64	100	325	2.5	1270	790	970	1032
AS1000T	1000	50/63	39.50	0.79	200	500	2.5	1370	790	1070	1032
AS1200T	1200	50/63	56.50	1.13	300	900	2.5	1540	980	1240	1302

Flow mentioned are at 50 m³/m²/hr velocity as per SPATA standards for Residential application.

DIAGRAM

No.	Description	No.	Description	No.	Description	No.	Description
1.	Screw	7.	Seal washer	13.	O Ring	19.	Drain Cap
2.	Valve Cover	8.	O Ring	14.	Piping Assembly		
3.	O Ring	9.	Transparent Nut	15.	Lateral		
4.	Valve Body	10.	Transparent Cover	16.	Assembled Tank		
5.	Nut	11.	Pressure Gauge	17.	Sand Drain		
6.	Nut	12.	Union Adapter	18.	Gasket		

FILTRATION SYSTEM

High Performance Sand Filter - Side Mounted

ACCESSORIES



TANK



5 years warranty with Praher MPV
(price varies)

High performance side mounted sand filters are manufactured with polyester and glass fiber winding for dependable, durable and all weather operation

They are economic, but with impressive performance for private pool and Jacuzzi.

FEATURES:

- UV and corrosion resistant.
- Shell thickness over 6mm.
- Hydraulically balanced umbrella - fold laterals for balanced flow, back washing and easy maintenance.
- Multi-port 6-way valve with lever-action handle comes with quick connect unions.
- Integral sight glass for watching backwash cycle.
- Manometer, air-bleed apparatus for monitoring and varying the pressure of filtration system.
- Sand/water drain for rapid winterizing or servicing.
- Maximum working pressure: 2.5 bar.
(4.0 bar available on request)
- Test pressure : 4.0 bar (6.0 bar for 4.0 bar filter)
- Maximum working temperature: 50 degC
- Product with guarantee for structural integrity & the longevity.

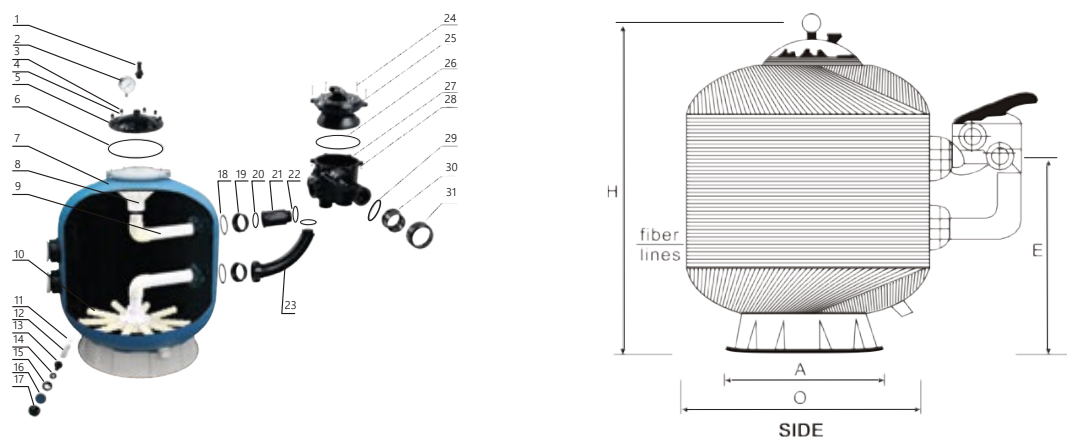
DIAGRAM

1. Clamp arrangement upto 700mm dia. Nut and bolt arrangement for larger filters.
2. Multiport valve with quick connect unions (BS / ASTM connections)
3. Hydraulically balanced laterals (Inside)
4. Extra strong threaded base

Functions of 6 way (Multi-port) valve

1. Filter	2. Waste	3. Close
4. Backwash	5. Re-circulate	6. Rinse

FILTRATION SYSTEM



Note: Picture shown for illustrative purpose only

TECHNICAL SPECIFICATION

Ref. Code	Diameter (O)	Connection	Flow	Surface Area	Gravel / Sand weight		Pressure	H	A	E
	mm	mm	m ³ /h	m ²	kg		kg/cm ²	mm	mm	mm
AS450S	450	48/50	8.00	0.16	25	60	2.5	665	390	385
AS500S	500	48/50	10.00	0.20	25	75	2.5	710	390	405
AS650S	650	48/50	16.00	0.32	50	140	2.5	810	565	435
AS700S	700	48/50	19.00	0.38	50	190	2.5	880	565	485
AS800S	800	50/63	24.90	0.50	70	250	2.5	1020	790	605
AS900S	900	50/63	32.00	0.64	100	310	2.5	1100	790	650
AS1000S	1000	50/63	39.50	0.79	200	475	2.5	1140	790	680
AS1100S	1100	50/63	47.50	0.95	250	850	2.5	1260	790	760
AS1200S	1200	50/63	56.50	1.13	300	875	2.5	1385	980	820

Filters with 75/90mm flange outlet also available in 1000, 1100, 1200mm diameter with same dimensions

75, 90mm multiport valve available as optional.(SL models)

Flow mentioned are at 50m³/m²/hr velocity as per SPATA standards for Residential application.

DIAGRAM

No.	Description	No.	Description	No.	Description	No.	Description
1.	Air Release Valve	9.	Piping Assembly	17.	Drain cap	25.	Valve Cover
2.	Pressure Gauge	10.	Lateral	18.	Sealed Ring	26.	O Ring
3.	Nut	11.	Cover	19.	Nut	27.	Valve Body
4.	Sealwasher	12.	Drain Lateral	20.	O Ring	28.	Nut
5.	Valve Cover	13.	Pipe	21.	Piping Assembly	29.	O Ring
6.	O Ring	14.	Sealed Ring	22.	O Ring	30.	Pipe
7.	Filter Tank	15.	Nut	23.	Piping Assembly	31.	Nut
8.	Filter	16.	Sealed Ring	24.	Screw		

FILTRATION SYSTEM

Fiberglass Commercial Sand Filter



FEATURES:

- Commercial filter is manufactured with special resins as anti corrosive coating to work against any chemicals. Also suitable for salted pools
- Fiberglass Bobbin wound tank, UV and corrosion resistant.
- Manual Air Release valve and air tube enables easy release of trapped air during operations and testing.
- Sight glass 3inch and manhole 300 x 400mm are available as options.
- Lateral configuration for maximum hydraulic performance.
- Nozzle plate system ensures uniform flow for both filtering and backwashing, ensuring maximum performance through the media bed. Save up to 25% of backwash water.
- Lateral and nozzle plate are available in option.
- Bed depth: 1 meter.
- Maximum working pressure: 2.5 bar (4.0 bar available on request).
- Factory testing pressure: 4.0 bar (6.0 bar available on request).
- Size of sand: 0.5 mm - 1.0 mm.
- Size of gravel: 3 mm - 6 mm.

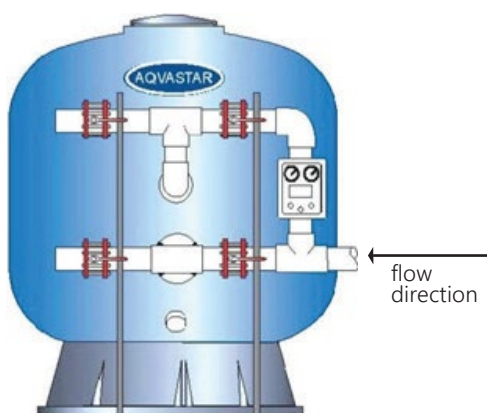
TECHNICAL SPECIFICATION

Ref. Code	Diameter (mm)	Height (mm)	Design Flow (m ³ /hr)	Surface Area (m ²)	Connection (mm)	Sand (kg)	Gravel (kg)
AS1400C	1400	1600	61	1.54	110	1760	500
AS1600C	1600	1750	80	2.01	110	2450	750
AS1800C	1800	1950	101	2.54	160	3150	750
AS2000C	2000	2140	125	3.14	160	3800	1150
AS2300C	2300	2350	166	4.15	200	5030	1600
AS2500C	2500	2450	196	4.90	200	5950	2200
AS3000C	3000	2650	282	7.07	200	8600	3300

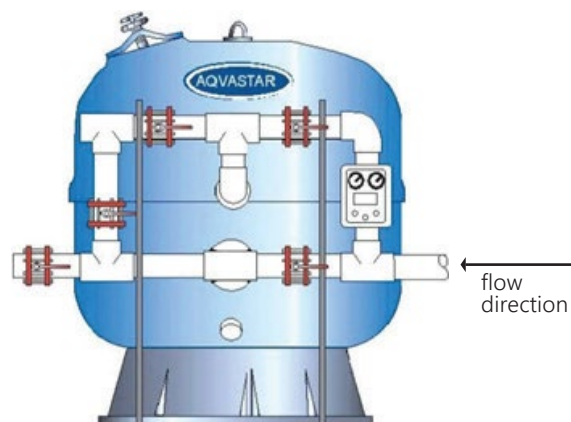
Flow mentioned are at 40m³/m²/hr velocity as per SPATA standards for Commercial application.

FILTRATION SYSTEM

Valve Batteries - Manual



4 VALVE BATTERY



5 VALVE BATTERY

Valve batteries supplied loose for site assembly and include PVC-U fittings, pipes, butterfly valves and 2 x supports with 4 x pipe clips.

Note:

- Pressure gauge panel not included.
- Butterfly valves have EPDM seals and ratchet locking lever arms.
- Pipe and fittings are PN 10 rated.

TECHNICAL SPECIFICATION

Ref. Code	Conn In (mm)	Filtration Velocity		
		11 -30 m ³ /m ² /hr	30-40 m ³ /m ² /hr	40-50 m ³ /m ² /hr
ASVB 90-5	90	1400	1200	1050
ASVB 110-5	110	1600	1400	1400
ASVB 125-5	125	2000	1800	1600
ASVB 140-5	140	2350	2000	1800
ASVB 160-5	160	2500	2350	2000
ASVB 200-5	200	3000	2500	2350

SHELL THICKNESS

Model No	Thickness(mm)		
	Top Position	Middle Position	Bottom Position
AS1200C	≥12	≥7	≥14
AS1400C	≥12	≥7	≥14
AS1600C	≥13	≥8	≥15
AS1800C	≥14	≥8	≥15
AS2000C	≥15	≥10	≥17
AS2300C	≥15	≥11	≥17
AS2500C	≥16	≥12	≥18
AS3000C	≥16	≥12	≥20

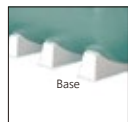
FILTRATION SYSTEM

Horizontal Filter

TANK



Product Details



Base



Sand Drain



Cover Lid



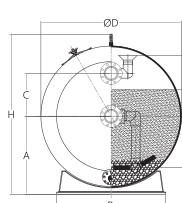
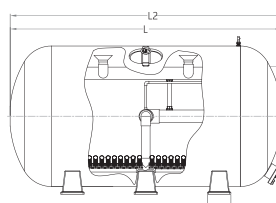
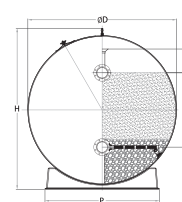
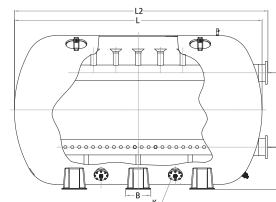
Pressure Control Manometer Panel



Flange



Lateral System



FEATURES:

- It is made of multiple layers of anti-corrosion materials. The outer layer is made of CNC multi-axis fiberglass.
- The internal piping system is uniform and reasonable structure.
- Strong fiberglass base can support the big filter body.
- 100% pressure testing before packing.
- Exclusive features for superior performance.
- Offering attractive and reasonable performance.
- Maximum Working Pressure:
250kpa / 36psi (2.5 bar)
400kpa / 58psi (4.0 bar)
- Factory Testing Pressure:
400kpa / 58psi (4.0 bar)
600kpa / 86psi (6.0 bar)
- Maximum Temperature: 50 °C (122 °F)
- Size of Gravel:
1mm ~ 2mm (Gravel Weight)
0.5mm ~ 0.8mm (Sand Weight)

DIMENSIONS

Ref.Code	ØD (mm)	H (mm)	A (mm)	B (mm)	C (mm)	K (mm)	P (mm)	L (mm)	L2 (mm)	T (mm)	W (mm)
HL161900	1600	1830	925	300	450	110	1230	1900	2100	950	250
HL162500	1600	1830	925	300	450	110	1230	2500	2700	950	250
HL163000	1600	1830	925	300	450	110	1230	3000	3200	950	250
HL182500	1800	2050	1040	300	550	160	1400	2500	2700	1000	300
HL183000	1800	2050	1040	300	550	160	1400	3000	3200	1000	300
HL183500	1800	2050	1040	300	550	160	1400	3500	3700	1000	300
HL184000	1800	2050	1040	300	550	160	1400	4000	4200	1000	300
HL202500	2000	2220	1090	330	550	160	1490	2500	2730	1100	400
HL203000	2000	2220	1090	330	550	160	1490	3000	3230	1100	400
HL203500	2000	2220	1090	330	550	160	1490	3500	3730	1100	400
HL204000	2000	2220	1090	330	550	160	1490	4000	4230	1100	400
HL204500	2000	2220	1090	330	550	160	1490	4500	4730	1100	400

FILTRATION SYSTEM

Horizontal Filter

TECHNICAL SPECIFICATION

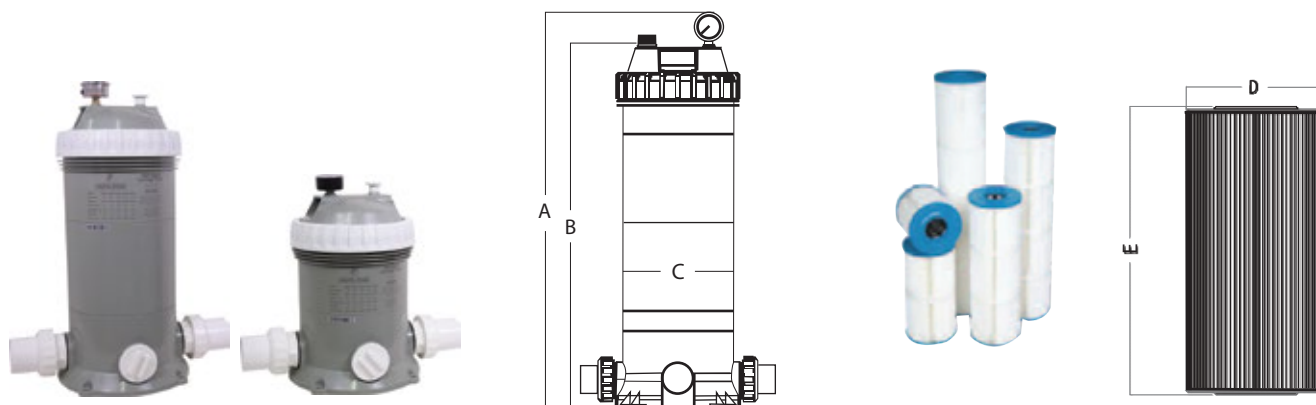
Ref.Code	Filter Diameter (mm)	Filter Height (mm)	Flow rate (m ³ /h/m ²)	Connections de(mm) inch		Design Flow (m ³ /h)	Filter Area (m ²)	Sand Weight (kg)	Gravel Weight (kg)
HL161900	1600	1830	20	110	4"	49	2.47	2800	600
			30	160	6"	74			
			40	160	6"	99			
HL162500	1600	1830	20	110	4"	67	3.36	3800	850
			30	160	6"	101			
			40	160	6"	134			
HL163000	1600	1830	20	160	6"	82	4.10	4700	1050
			30	160	6"	123			
			40	200	8"	164			
HL182500	1800	2050	20	160	6"	75	3.74	4850	980
			30	160	6"	112			
			40	160	6"	150			
HL183000	1800	2050	20	160	6"	92	4.58	5930	1230
			30	160	6"	137			
			40	200	8"	183			
HL183500	1800	2050	20	160	6"	108	5.41	7000	1480
			30	200	8"	162			
			40	200	8"	216			
HL184000	1800	2050	20	160	6"	125	6.25	8080	1700
			30	200	8"	187			
			40	250	10"	250			
HL202500	2000	2220	20	160	6"	87	4.34	6000	1050
			30	160	6"	130			
			40	200	8"	175			
HL203000	2000	2220	20	160	6"	106	5.30	7450	1300
			30	160	6"	159			
			40	200	8"	212			
HL203500	2000	2220	20	160	6"	125	6.25	8900	1550
			30	200	8"	187			
			40	200	8"	250			
HL204000	2000	2220	20	160	6"	144	7.21	10350	1800
			30	200	8"	216			
			40	250	10"	288			
HL204500	2000	2220	20	200	8"	163	8.16	11800	2080
			30	200	8"	245			
			40	250	10"	326			

Note:

Diameter of 1200, 1400, 2350, 2500, 3000 mm are available. Technical details & Prices are available on request.

FILTRATION SYSTEM

Cartridge Filters



CF - Series cartridge filters are quick and easy to install. Simply connect the piping and the filters are ready to provide you with crystal clear water. The heavy duty ring - lock lid allows easy cleaning and the replacement of the cartridge element. Ideal for confined spaces and they are compact and light weight.

FEATURES:

- 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.
- Suitable for all domestic swimming pool & spa.
- Quick connect barrel union with BS / ASTM connections.

Maximum Working pressure 2.5bar, Maximum Water temperature 40 °C (100 °F)

CARTRIDGE FILTER ELEMENT FOR AQVASTAR FILTERS

(Dimensions in mm)

TECHNICAL SPECIFICATION

Ref. Code	Filter area		Dimensions (mm)			Max flow rate		connection (mm)
	(m ²)	(ft ²)	A	B	C	lpm	m ³ /hr	
ASCF25	2.25	25	455	387	225	92	5.5	50/63
ASCF50	4.63	50	625	567	225	190	11.4	50/63
ASCF75	7.00	75	805	747	225	283	17.0	50/63
ASCF100	9.40	100	985	927	225	382	22.9	50/63
ASCF150	13.72	150	1165	1107	225	555	33.4	50/63

Ref. Code	Element Code	D	E	Micron*
		mm	mm	
ASCF25	RE012	Ø 183	184.5	≤ 20
ASCF50	RE016	Ø 183	364.5	≤ 20
ASCF75	RE126	Ø 183	544.5	≤ 20
ASCF100	RE144	Ø 183	724.5	≤ 20
ASCF150	RE168	Ø 183	904.5	≤ 20

Note: 5 micron cartridge filters are available on request.

FILTRATION SYSTEM

Trolley Mounted Filters



FEATURES:

- Aqvastar trolley mounted cartridge filters used as portable maintenance kit where vacuum points been installed or where the filtration system is not installed.
- Easy to maintain pools & water features.
- Recommended for smaller sizes of water volume. Periodic cleaning of equipment & safe handling is required.

It comes with DOL starter & along with 5 -meter 2.5 square mm 3 core incoming cable with 3 pin 15A plug

TECHNICAL SPECIFICATION

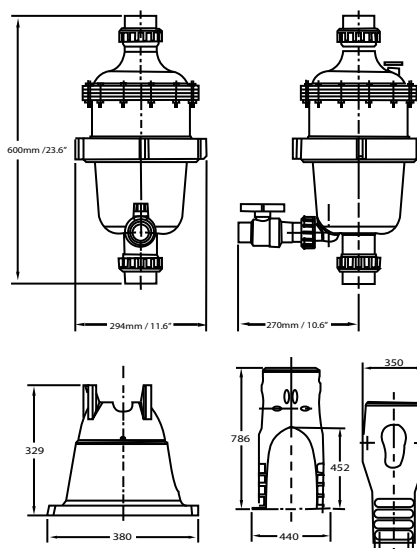
Ref.Code	Product Description
ASTMF25	Portable trolley mounted filter with 25 sq.ft cartridge, suitable for 5.5m ³ /hr flow, 50mm solvent connections with 0.5 HP pump
ASTMF50	Portable trolley mounted filter with 50 sq.ft cartridge, suitable for 11.4m ³ /hr flow, 50mm solvent connections with 0.75 HP pump
ASTMF75	Portable trolley mounted filter with 75 sq.ft cartridge, suitable for 17.0m ³ /hr flow, 50mm solvent connections with 1.0 HP pump
ASTMF100	Portable trolley mounted filter with 100 sq.ft cartridge, suitable for 22.9m ³ /hr flow, 63mm solvent connections with 1.5 HP pump
ASTMF150	Portable trolley mounted filter with 150 sq.ft cartridge, suitable for 33.4m ³ /hr flow, 63mm solvent connections with 2.0 HP pump

FILTRATION SYSTEM

Multicyclone Filter



Dimensions (mm/in)



MultiCyclone is a centrifugal filtration device that is capable of saving water and reducing filter maintenance.

The MultiCyclone works on the basis of centrifugal water filtration. There are no moving parts to wear and tear, and no filter media to clean or replace

FEATURES:

- No filter media to clean or replace
- No moving parts
- Cuts wasteful backwashing
- Reduces filter maintenance
- Suitable for both new and existing installations
- Supplied with both imperial and metric quick connect unions and purge valve
- Applicable to swimming pool, water treatment and aquaculture industries

HOW DOES IT WORK?

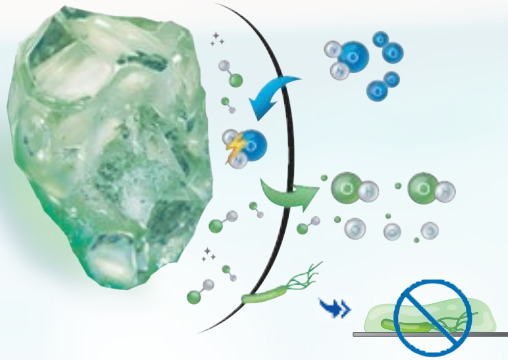
- Incoming water enters 16 hydro cyclones tangentially, generating a strong centrifugal effect.
- The sediment is spun out to the hydro cyclone's wall, and then spirals down to the sediment chamber.
- The filtered water migrates towards the center of the hydro cyclone where the flow reverses and spirals upwards through the outlet.
- Accumulation of sediment can be visibly monitored through the MultiCyclone's clear sediment chamber.
- The MultiCyclone is easily cleaned by opening its purge valve. Only 15 litres of water is discharged to cleanse the MultiCyclone.
- There is no filter media to clean or replace.

TECHNICAL SPECIFICATION

Ref. Code	Item Name	Connection	Flow Rate Range m ³ /h	Maximum Pool Volume m ³	Working Pressure BAR
ASMCF16	MultiCyclone 16	2" / 63 mm	3 - 30	80	3.5

AFM[®]
ACTIVATED FILTER MEDIA

THE BEST FILTRATION MEDIA



No bacterial growth

- ✓ No channeling
- ✓ No chlorine smell
- ✓ No loss of efficiency



Filtration to 1 micron

- ✓ Clean crystal clear water
- ✓ Less chemicals
- ✓ Reduced operating costs



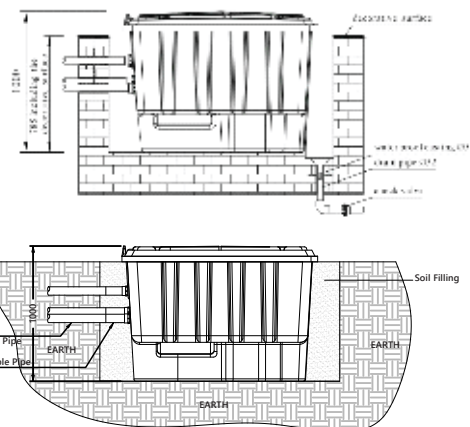
Hydrophobic surface

- ✓ Less organics in the water
- ✓ Up to 50% less THMs



FILTRATION SYSTEM

FRP Pump Room



FRP PUMP ROOM

Readymade pump made of FRP body and top cover for quick installation. Also useful for temporary water feature where replacement of location are there.

FEATURES:

- Made of high quality acrylic with fiberglass reinforced.
- This includes sand filter, Circulation pump, Panel.
- Panel consists of timer to control pump, and light.
- Water discharge connection for back wash and drainage plug.
- Easy installation with pre-installed plumbing system
- Maximum working pressure: 36 psi/ 2.5 bar
- Maximum water temperature: 43°C (109°F)
- Suggested size of sand: 0.5-1.0 mm
- Suggested size of gravel: 3-6 mm
- Salt chlorinator/ UV can be added (as optional)
- Flexible connection pipes included

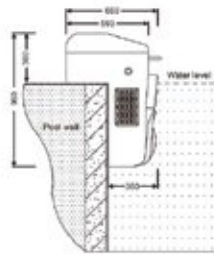


TECHNICAL SPECIFICATION

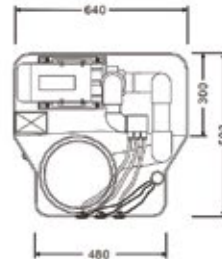
Ref.Code	Motor Power (HP)	Voltage (v)	Design Flow (m ³ /h)	Filter size (mm)	Filter Area (m ²)	Volume (m ³)	Dimensions L x W x H (mm)
ASRP- 8	0.75	220~240	8	450	0.16	≤64	1320*1340*985
ASRP- 12	1.0	220~240	12	500	0.23	≤92	1320*1340*985
ASRP- 16	1.5	220~240	16	650	0.32	≤128	1320*1340*985
ASRP- 20	2.0	220~240	20	700	0.40	≤160	1550*1560*1135
ASRP- 25	2.0	220~240	25	800	0.50	≤200	1550*1560*1135

FILTRATION SYSTEM

Pipeless Filter



Installation figure



Top view



Front view

Pipeless Filters are designed keeping small pools/ Residential pools installed where limitation to pump room space.

FEATURES:

- Made of high quality acrylic with fiberglass reinforced.
- Equipment to comply with the filter bag, massage jet, suction and lighting.
- Massage jet delivery design ensures more Air Mixture in to pool
- Comes with 12/18w warm white LED light.
- New feature as outside vacuum fitting for easy access and cleaning

TECHNICAL SPECIFICATION

Ref.Code	Motor Power (HP)	Voltage (v)	Design Flow (m ³ /h)	Filter Area (m ²)	Length (mm)	Width (mm)	Height (mm)
ASPF-N	1.2	220	10-13	0.26	640	660	960
ASPF	2.0	220	25	0.297	1120	680	1080

GLASS MEDIA

Waterco's Glass filter media is manufactured from recycled glass, it is an environmentally friendly and viable alternative to sand. Plus it offers finer filtration than sand.



HIGH PURITY

Whereas other filter media may contain a variety of contaminants, Waterco's Glass filter media is chemically inert for superior purity. In fact, it does not contain any crystalline free silica or heavy metals. Its high purity also greatly reduces its initial backwashing requirements, prior to commissioning a filter, enabling a rapid start up of media filters.



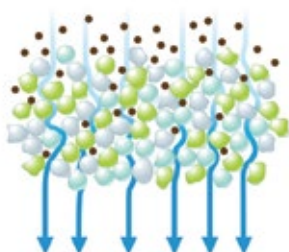
RECYCLED

Raw material is taken directly from household recycling schemes and is 100% recycled glass. This offers environmental savings when compared with alternative natural resources which would otherwise be used.



EFFICIENT

It removes more materials and pollutants than sand, saving on backwashing and resultant water, heating and chemical treatment costs.



DEPTH FILTRATION

Glass filter media operate on the basis of "depth filtration"; dirt is driven through the filter bed and trapped in minute spaces between the particles of filter media allowing the cleansed water to pass through.



CLEAN

It is less susceptible to bio-fouling. The heat-treated surfaces are smooth, requiring less remedial action and less chemical treatment to kill pollutants.



LONG LIFE

It has undergone specialised heat treatment process, which means that its degradation is slower and it therefore has a longer life span.



25 kg of sand = 21 kg of glass media

Grade 1 : 0.5 - 1.0mm
(equivalent to grade 16/30 sand)

CHEMICAL COMPOSITIONS

Silicon dioxide (SiO ₂)	72.2%
Sodium oxide (Na ₂ O)	13.3%
Calcium oxide (CaO)	10.9%
Magnesium oxide (MgO)	1.65%
Aluminium oxide (Al ₂ O ₃)	1.5%

Ref. Code	Product Description
ASGM1	Grade 1 Eco Glass Media 20kg in bags 0.5-1.0 mm size (equivalent to 16/30 sand)
ASGM3	Grade 3 Eco Glass Media 20kg in bags 3.0 - 6.0 mm size (equivalent to Pea gravel)

FREQUENCY INVERTER

What's a Frequency Inverter



Frequency Inverter is a device that converts alternating current of one frequency to another frequency, the result of this conversion leads to a motor speed change in pool pump application.

The majority of pool pumps installed in the market now are single speed, they are quite powerful for heavy duties like backwash, but this is not constantly needed as in pumping or filtration, changes of motor speed on a single speed pump can meet different application demand for the pump

- Classic touch control
- 4 timers program for 24 hours running
- User friendly interface with power consumption indication
- 35 running speeds from 1200 - 2900 RPM by increment of 50RPM

TIMER PROGRAM

4 timers for 24 hour operation, each with an individual speed for different pool features, filtration or heating, better take advantage of electricity tariff at different time of day

LONGER LIFESPAN

Lower running speed means a reduction in wear, particularly in mechanical seals

80% ENERGY SAVING

With an ASpower, pump speed can be set to adapt for different operations, running cost will be dramatically reduced.

BETTER FILTRATION

Small particles can be removed easier when the water moves more slowly

ECO - FRIENDLY

Tremendous greenhouse gas emission decreased due to 80% reduction in electricity consumption

25% QUIETER

Running at low speed promises a much more pleasant user experience, sound level can be reduced as much as 25%

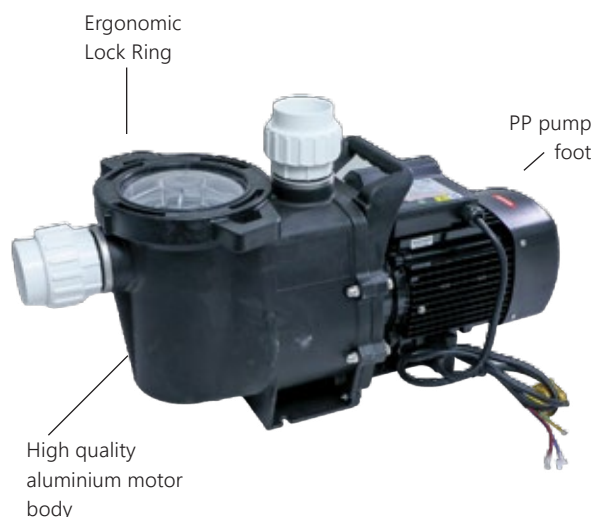


TECHNICAL SPECIFICATION

Model	ASpower 1100	ASpower 2200	ASpower 1100C	ASpower 2200C
Operation Condition	-10-40°C	-10-40°C	-10-40°C	-10-40°C
Input Power	1ph AC	1ph AC	1ph AC	1ph AC
Input Voltage	220V-240V	220V-240V	220V-240V	220V-240V
Frequency	50 Hz	50 Hz	50 Hz	50 Hz
Output Voltage	1ph, 0-240V	1ph, 0-240V	3ph, 0-240V	3ph, 0-240V
Output Power	Max 1.1kW	Max 2.2kW	Max 1.1kW	Max 2.2kW
Output Current	Max 6A	Max 12A	Max 4.5A	Max 8A
Pump Type	Single phase	Single phase	Three phase	Three phase
Speed Range	1200-2900rpm			

PUMPS

QR Series - Pumps For Private Pools



FEATURES:

- High efficiency self-priming centrifugal pumps with built-in extra large prefilter.
- Extremely quiet running and great reliability developed for water circulation.
- Pump body, prefilter & pump foot in PP.
- Strainer cover in see through polycarbonate to guarantee constant visibility and easy inspection.
- Pump body with easily removable ergonomic lock ring.
- Diffuser & Impeller in PPO.
- Mechanical seal in SIC.
- Motor casing in die cast aluminum L2521.
- Asynchronous continuous duty 2-pole motor with F class insulation motor and terminal box protection rating: IP55.
- Ball bearings-water-proof, sealed, resistant to water and humidity.
- Standard voltage: Single phase 220-240V 50Hz.
- Liquid temperature range: up to 50°C.
- Maximum ambient temperature: up to 50°C.
- Maximum operating pressure: 2,5 bar.
- Installation: fixed or portable in horizontal position.
- Union connectors with 63/63 mm BS pipe sockets. (ASTM socket available on request)

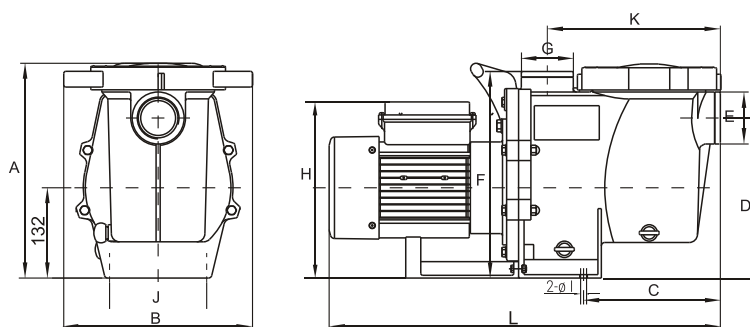
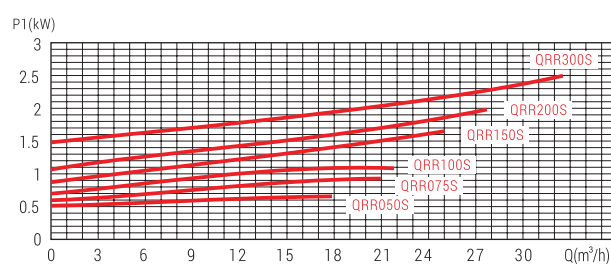
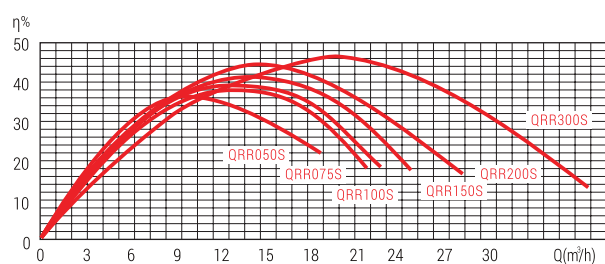
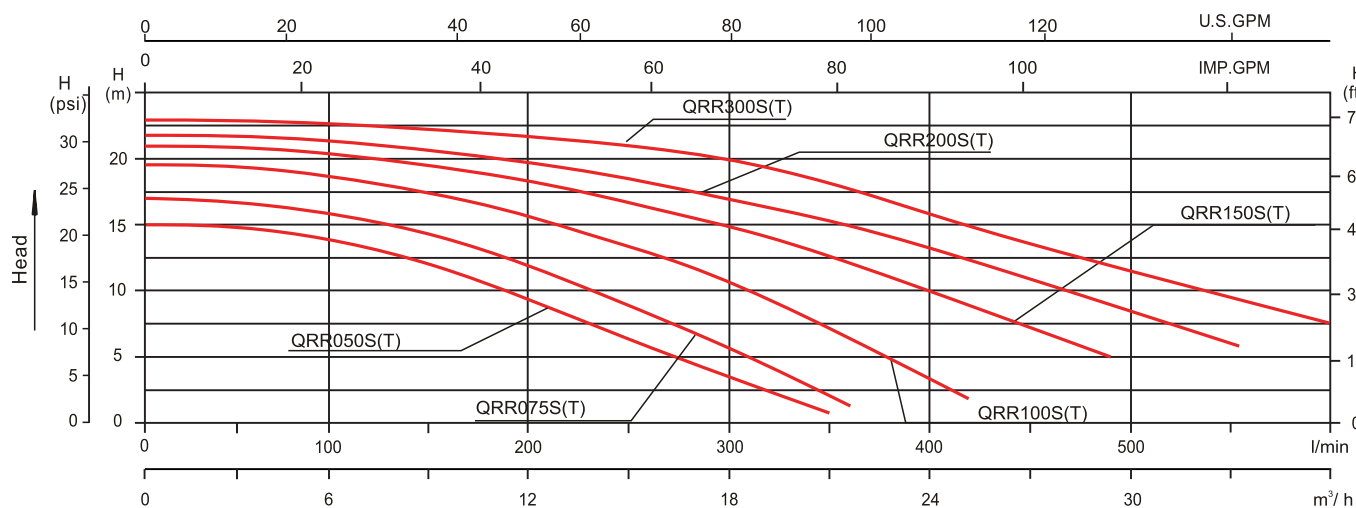
TECHNICAL SPECIFICATION

Ref. Code	HP	KW	V	A	P1(KW)	Q L/min M³/h	0	50	100	150	200	250	300	350	400	450	500	550
			1~	1~	1~		0	3	6	9	12	15	18	21	24	27	30	33
QRR050S	0.50	0.37	220	3.2	0.68	H(m)	12	11.5	11	8.5	7							
QRR075S	0.75	0.55	220	3.8	0.95		17	16.5	15.5	13.5	11.75	8.5						
QRR100S	1.00	0.75	220	5.4	1.15		19	18.5	17.5	16.5	15	13	10.5					
QRR150S	1.50	1.10	220	7.0	1.7		21	20.5	20	19.5	18.5	17	15	12.5	10			
QRR200S	2.00	1.50	220	8.6	2.1		22	21.5	21	20.5	20	19.5	17.5	16.5	14	12	9	
QRR300S	3.00	2.20	220	12	2.6						22	21.5	20	18.5	17	14.5	12.5	10
QRR300T	3.00	2.20	380	9	2.6						22	21.5	20	18.5	17	14.5	12.5	10

PUMPS

QR Series - Pumps For Private Pools

PERFORMANCE CURVES



DIMENSIONS (IN MM)

Ref. Code	A	B	C	D	E	F	G	H	I	J	K	L
QRR050S	314	276	200	234	63	302	63	243	11.5	142	253	572
QRR075S	314	276	200	234	63	302	63	243	11.5	142	253	572
QRR100S	314	276	200	234	63	302	63	243	11.5	142	253	572
QRR150S	314	276	200	234	63	302	63	246	11.5	142	253	572
QRR200S	314	276	200	234	63	302	63	270	11.5	142	253	605
QRR300S	314	276	200	234	63	302	63	270	11.5	142	253	605
QRR300T	314	276	200	234	63	302	63	270	11.5	142	253	605

PUMPS

Aqvastar Commercial Pump - Ultra (For Semi commercial pools)



SUPREME PERFORMANCE SELF-PRIMING PUMP

Aqvastar Commercial Pump - Ultra is a series of high-performance pumps designed to achieve the highest flows among similar pumps on the market. By utilizing state-of-the-art engineering, the one-piece molded pump body with a large capacity **8-liter strainer basket** makes it unique among all comparable pumps. Built with corrosion and chemical resistant glass-reinforced thermoplastic and superior seawater graded mechanical seal guarantee a long working life.

SPECIFICATION:

1. Waterproof: IPX5
2. Self Priming: 3 m
3. Flow rate: Up to 110 m³/h
4. Working Voltage: 380-400VAC
5. Premium Efficiency **IE3** Class Motor
6. Bearing: High temperature resistant up to 160°C



3" Union



8L Strainer Basket



IE3 Class TEFC Motor



One-piece Moulded Pump Body



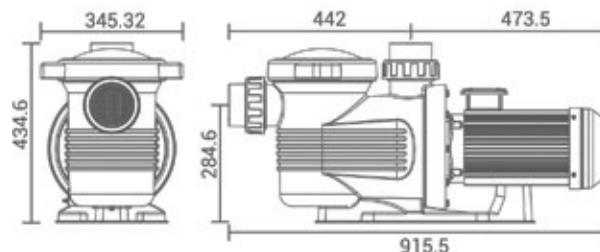
SS316+EPDM/ Ceramic/ Carbon Mechanical Seal

PUMPS

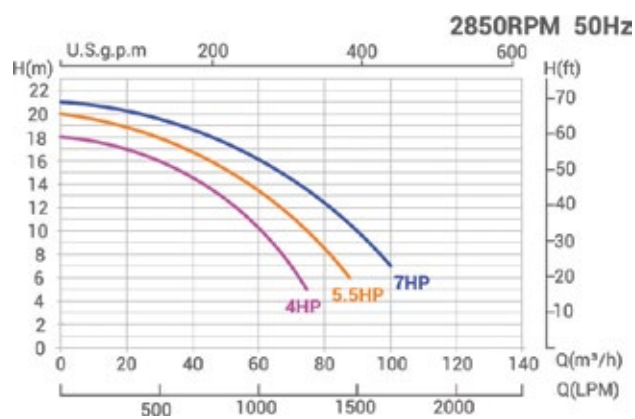
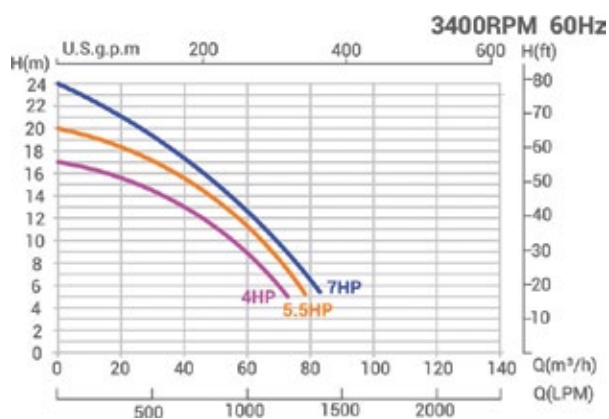
Aqvastar Commercial Pump - Ultra (For Semi commercial pools)

Outstanding Hydraulic Performance. Highest Efficiency up to 80%

The Aquvastar Commercial Pump - Ultra with a 3" union to achieve the hydraulic performance of more than 45 m³/h at 18m of head (7hp model). With a wide selection of power options (from 4, 5.5, 7hp) available in 3-phase motor, it becomes one of the most efficient and energy-saving solution.



PERFORMANCE CURVES



TECHNICAL SPECIFICATION

Ref. Code	Connection Size	Horsepower (hp)	Strainer Vol (L)	RPM	Input Power (kw)	Noise (dB)	Current (AMP)	Head (m)					
								8	10	12	14	16	18
ASUP400T	3"/90mm	4	8	2850	3	70	5.5	64	62	53	42	30	--
ASUP550T	3"/90mm	5.5	8	2850	4	72	8	82	75	66	58	43	28
ASUP700T	3"/90mm	7	8	2850	5	72	10	96	90	82	72	60	45

Ref. Code	Connection Size	Horsepower (hp)	Strainer Vol (L)	RPM	Input Power (kw)	Noise (dB)	Current (AMP)	Head (m)					
								8	10	12	14	16	18
ASUP400T	3"/90mm	4	8	3400	3	70	5.5	60	52	45	32	15	--
ASUP550T	3"/90mm	5.5	8	3400	4	72	8	70	65	58	50	38	22
ASUP700T	3"/90mm	7	8	3400	5	72	10	73	70	62	55	42	38

*Three phase

PUMPS

QR Series - Pumps For Commercial Pools



FEATURES:

- High efficiency self-priming centrifugal pumps with built-in extra large prefilter.
- Extremely quiet running and great reliability developed for water circulation.
- Pump body, prefilter & pump foot in PP.
- Strainer cover in see through polycarbonate to guarantee constant visibility and easy inspection.
- Pump prefilter body closed with knob system for easy accessibility.
- Diffuser & Impeller in PPO.
- Mechanical seal in SIC.
- Motor casing in die cast aluminum L2521.
- Asynchronous continuous duty 2-pole motor with F class insulation motor and terminal box protection rating: IP55.
- Ball bearings-water-proof, sealed, resistant to water and humidity.
- Standard voltage: three phase 230/400V 50Hz.
- Liquid temperature range: up to 50°C.
- Maximum ambient temperature: up to 50°C.
- Maximum operating pressure: 2,5 bar.
- Installation: fixed or portable in horizontal position.
- Union connectors with 110/90 mm BS pipe sockets. (ASTM socket available on request)

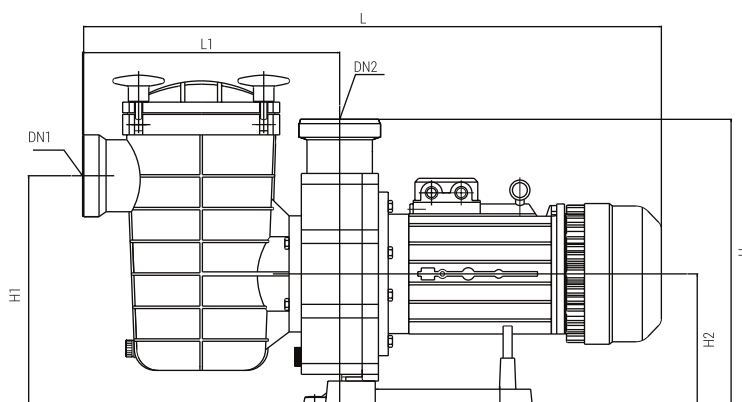
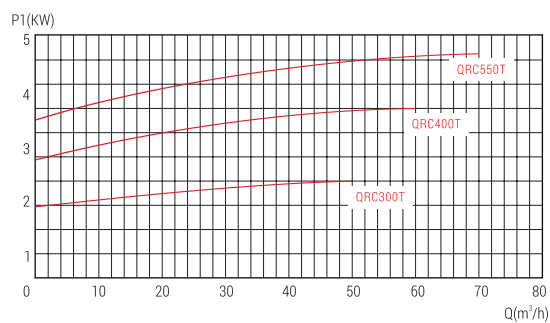
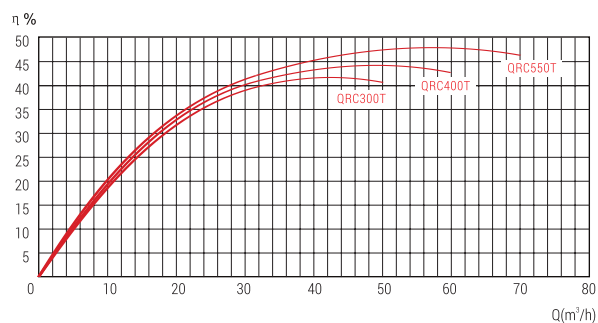
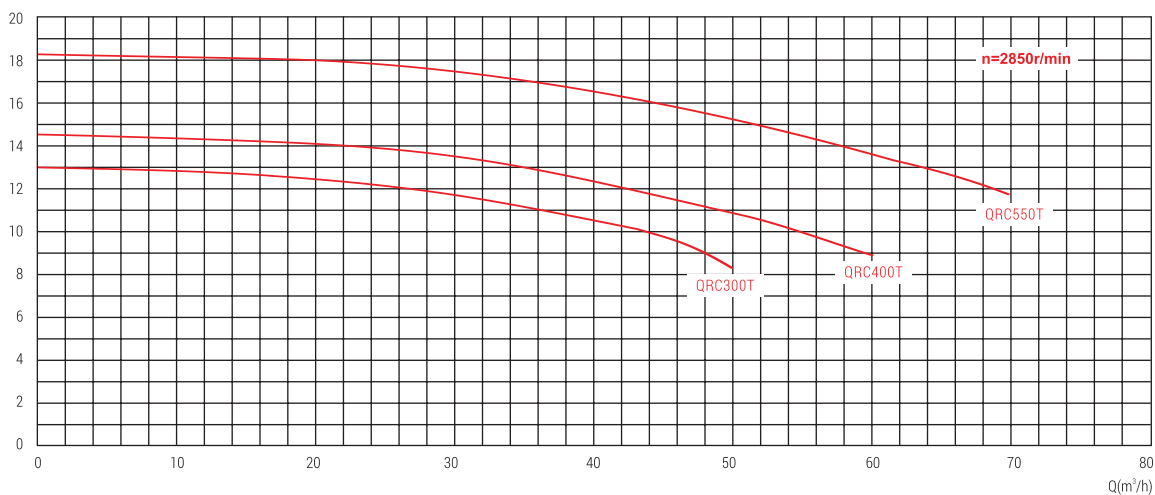
TECHNICAL SPECIFICATION

Ref. Code	HP	KW	V	A	P1(KW)	Q	L/min M³/h	0	333.3	500	666.7	833.3	1000	1166.3
			3~	3~				0	20	30	40	50	60	70
QRC300T	3.0	2.2	380	4.9	2.8	H(m)		13	12.6	11.8	10.6	9		
QRC400T	4.0	3.0	380	6.4	3.6			14.5	14.2	13.5	12.6	11	9.5	
QRC550T	5.5	4.0	380	8.3	4.7			18.2	17.8	17	16.3	16	13.8	12.2

PUMPS

QR series - Pumps for Commercial pools

PERFORMANCE CURVES



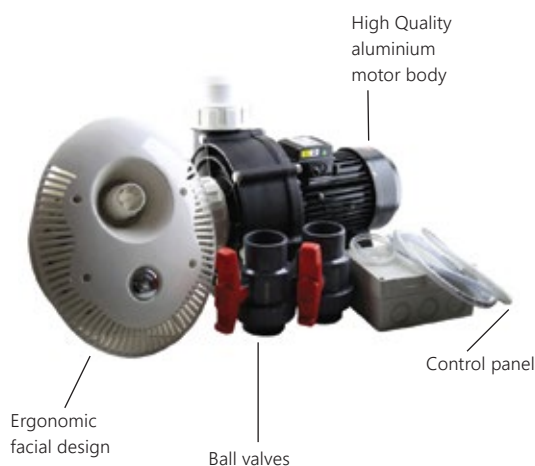
DIMENSIONS (IN MM)

Ref. Code	L	L1	H	H1	H2	DN1	DN2
QRC300T	833	310	319	286	156	110	90
QRC400T	833	310	319	286	156	110	90
QRC550T	850	310	319	286	156	110	90

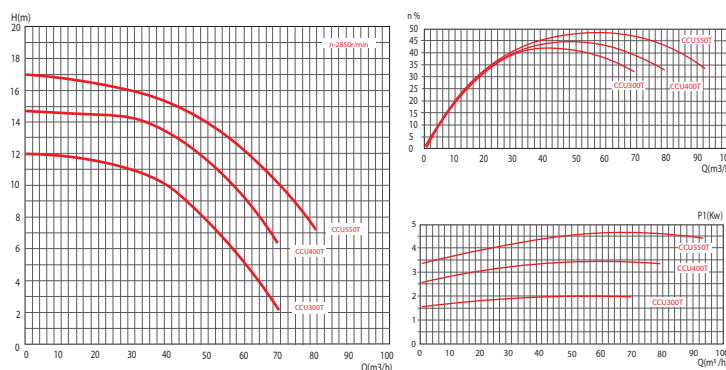
PUMPS

QR series - Counterflow systems

(Fitness, fun and treatment on demand)



PERFORMANCE CURVES



QR countercurrent swimming equipment makes it possible to customize therapeutic, training and fun activities in any kind of pool. The compact plastic design and its reduced size enable it to be fitted in the smallest of spaces and it is fully compatible with any kind of pool surfaces. The multi-directional nozzle makes the jet of water easily adjustable to suit different kinds of exercises.

FEATURES:

- Supplied in a kit that includes a front panel, nozzle set, wall housing and a pneumatic ON/OFF switch
- Pump body & pump foot in PP
- Pump body without strainer basket
- Asynchronous continuous duty 2-pole motor with F class insulation
- Union connectors with 90/90 mm BS pipe sockets. (ASTM socket available on request)
- Ball bearings- water-proof, sealed, resistant to water and humidity
- Standard Voltage: Three-phase 230/400V 50Hz
- Liquid temperature range: up to 50°C
- Maximum ambient temperature: up to 50°C
- Maximum operating pressure: 2,5 bar

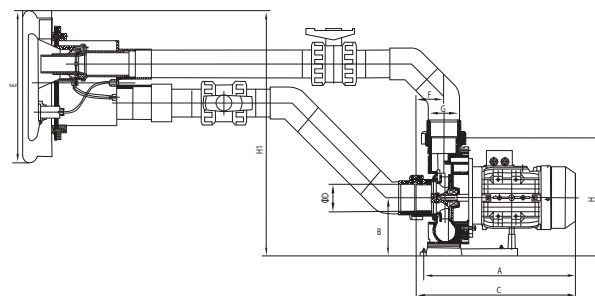
TECHNICAL SPECIFICATION

Model without CCU	Model with CCU	HP	KW	V	A	P1(KW)	Q	L/min	0	333.3	500	666.7	833.3	1000	1166	1333
				3~	3~			M³/h	0	20	30	40	50	60	70	80
QRCC300T	CCU300T	3.0	2.2	380	4.9	2.8		H(m)	12	11.7	10.5	9.8	7.9	5.8	2.1	
QRCC400T	CCU400T	4.0	3.0	380	6.4	3.6			14.5	14.2	14	13.4	11.5	9.5	6.7	
QRCC550T	CCU550T	5.5	4.0	380	8.3	4.7			18.2	16.2	16	15.3	13.8	12.5	9.5	7.5

DIMENSIONS (IN MM)

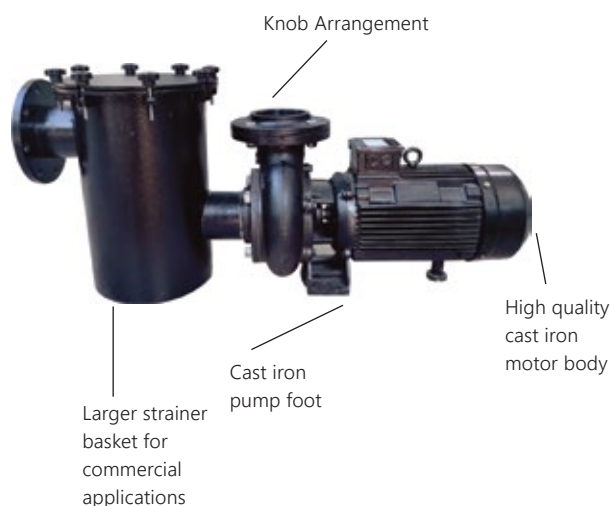
Ref.Code	A	B	C	D	E	F	G	H	H1
CCU300T	370	156	440	90	395	77	90	340	635
CCU400T	410	156	470	90	395	77	90	340	635
CCU550T	440	156	500	90	395	77	90	340	635

QRCC Models comes with suction and delivery union of 90 and 90 mm Dia



PUMPS

QR series - Pumps for Large Commercial pools



FEATURES:

- High efficiency self-priming centrifugal pumps with built-in extra large prefilter.
- Extremely quiet running and great reliability developed for water circulation.
- Pump body, prefilter & pump foot in specially coated cast iron
- Pump prefilter body closed with a knob system for easy accessibility.
- Diffuser & Impeller in cast iron.
- Mechanical seal in SIC.
- Motor casing in cast iron.
- Asynchronous continuous duty 2-pole motor with F class insulation motor and terminal box protection rating: IP55.
- Ball bearings - water - proof, sealed, resistant to water and humidity.
- Standard voltage: Three-phase 400V 50Hz.
- Liquid temperature range: up to 50°C.
- Maximum ambient temperature: up to 50°C.
- Maximum operating pressure: 2,5 bar
- Installation: fixed in horizontal position only.
- Flange connections (100 x 65 upto 10HP, 125 x 125 for 12.5HP & above).

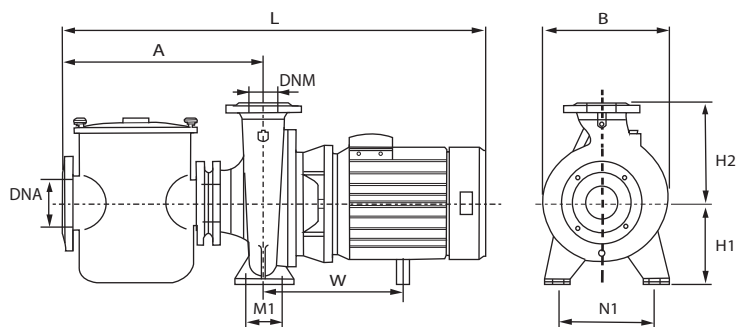
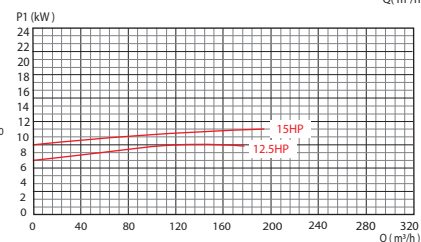
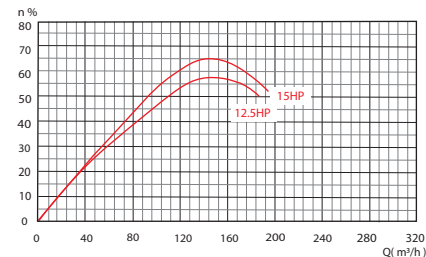
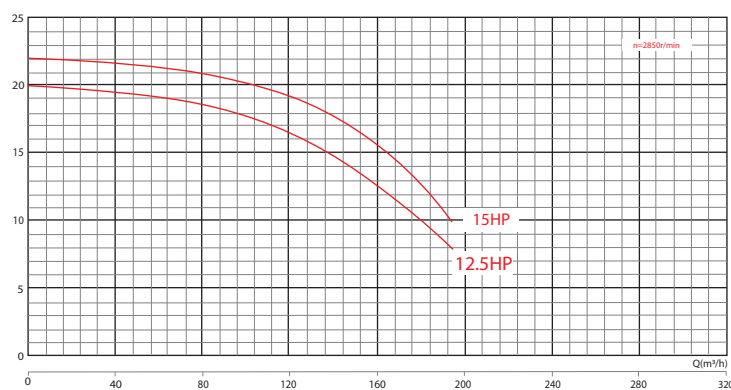
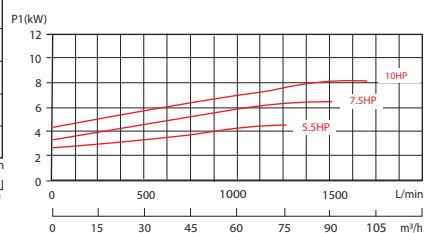
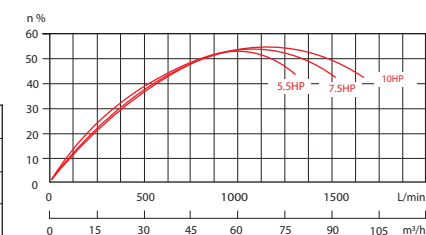
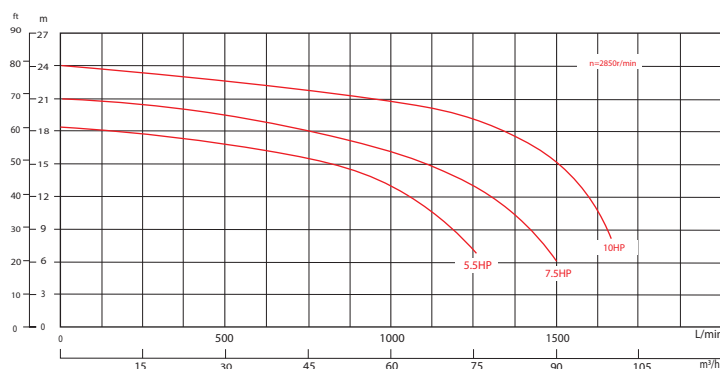
TECHNICAL SPECIFICATION

Ref. Code	HP	KW	V		A	P1(KW)		Q	L/min	0	500	750	1000	1250	1500	1916	2250	2483	2633	2750	3000	3250
			50Hz	50Hz		3~	3~				30	45	60	75	90	115	135	149	158	165	180	195
QRC550T	5.5	4	220	380	8.3	4.7	4.7	H(m)		18.5	17.5	16	14	10								
QRC750T	7.5	5.5	220	380	11.0	6.3	6.3			21	20.5	19.5	17.5	14	8							
QRC1000T	10	7.5	220	380	14.8	8.6	8.6			24	23.5	23	21.5	18	15							
QRC1250T	12.5	9.2		380	17.9		10.5			20					18	17	15	14	13	12	9	
QRC1550T	15	11		380	21.0		12.5			22					20.5	19.5	18	17	16	15	12	10

PUMPS

QR series - Pumps for Large Commercial pools

PERFORMANCE CURVES



DIMENSIONS IN (MM)

Ref. Code	A	B	M1	W	L	N1	H1	H2	DNA	DNM
QRC550T	495	310	95	292	970	212	162.5	180	Ø100	Ø65
QRC750T	495	310	95	310	995	212	162.5	180	Ø100	Ø65
QRC1000T	495	310	95	310	995	212	162.5	180	Ø100	Ø65
QRC1250T	489	322	95	262	990	187	160	236	Ø125	Ø125
QRC1550T	489	322	95	275	1016	187	160	236	Ø125	Ø125

POOL BASIN FITTINGS - ABS



Ref. Code	Product Description
ASCMD200	8" Main drain with anti entrapment grille – 18 m ³ /h – Concrete pools

Ref. Code	Product Description
ASMD225	Square Main Drain 225x225mm - Frame & Grille in ABS 20 m ³ /h
ASMD300	Square Main Drain 300x300mm - Frame & Grille in ABS 33 m ³ /h
ASMD450SF	Square Main Drain 450x450mm - Frame in SS & Grille in ABS 80 m ³ /h
ASMD600SF	Square Main Drain 600x600mm - Frame in SS & Grille in ABS 132 m ³ /h

MAIN DRAIN - FOR RESIDENTIAL POOLS

- Manufactured in ABS.
- Main drains available with flat drain grille.
- Recommendation - Main drains must be arranged Properly so that there is no risk of bathers being drawn towards them or trapped there.
- It is recommended that on all installations, a minimum of 2 main drains are installed 2 meters apart.
- 2" Threaded connection.
- Dimension : 8.5 W * 6.5 H mm

MAIN DRAIN - FOR COMMERCIAL POOLS

- Manufactured in ABS.
- Main drains available with flat drain grille.
- Recommendation - Main drains must be arranged Properly so that there is no risk of bathers being drawn towards them or trapped there.
- It is recommended that on all installations, a minimum of 2 main drains are installed 2 meters apart.



Ref. Code	Product Description
ASWIT	Adjustable Wall inlet 2" threaded
ASWIS	Adjustable Wall inlet 63mm - Solvent
ASWIS-A	Adjustable Wall inlet 2" - Solvent-ASTM

Ref. Code	Product Description
ASFIT	Adjustable floor inlet Standard 2" Threaded
ASFIS	Adjustable floor inlet Standard 63mm Solvent
ASFIS-A	Adjustable floor inlet Standard 2" Solvent-ASTM
ASFIDT	Adjustable floor inlet Diffuser 2" Threaded
ASFIDS	Adjustable floor inlet Diffuser 63mm Solvent
ASFIDS-A	Adjustable floor inlet Diffuser 2" Solvent-ASTM

WALL INLETS

- Manufactured in ABS.
- Wall inlet allows easy control of flow into the pool by adjusting the angle of the ball.
- Recommended Flow 5 m³/h - 9 m³/h.
- Solvent /threaded type.
- Dimension: Ø 105 x 58 H mm

Note: Solvent fittings suitable for UPVC 10kg/6kg grey colour pipe/ SCH40 pipe

FLOOR INLETS

- Manufactured in ABS.
- Adjustable floor inlet allows easy control of flow into the pool by adjusting the screw available.
- Recommended flow 9 m³ /h - 12 m³ /h.
- Solvent /threaded type.
- Dimension: Ø 107 x 65 H mm

Note: Solvent fittings suitable for UPVC 10kg/6kg grey colour pipe/ SCH40 pipe

POOL BASIN FITTINGS - ABS



Ref. Code	Product Description
ASVPT	Vacuum point & Plug 2" Threaded
ASVPS	Vacuum point & Plug 63mm Solvent
ASVPS-A	Vacuum point 2" Solvent-ASTM

VACUUM POINT

- Manufactured in ABS.
- Vacuum point is installed where an automatic pool cleaner or vacuum hose is to be fitted.
- These fittings are supplied with removable plug.
- Solvent / Threaded type.
- Dimension: Ø 105 x 58 H mm

NOTE: Solvent fittings suitable for UPVC 10kg/6kg grey colour pipe/ SCH40 pipe



Ref. Code	Product Description
ASWC	Wall conduit for 2" threaded fitting

WALL CONDUIT

- Manufactured in ABS/PP.
- 300mm Long conduit, can be easily cut to required lengths
- Depending on pool shell thickness, have puddles for positioning within the pool shell.
- Solvent end - Back side to suit pipe of 50mm.
- Threaded end - Front side to suit pools fittings 2"



Ref. Code	Product Description
ASOFF	Gutter drain 50mm

OVERFLOW FITTING

- Manufactured in ABS
- Suitable for overflow channels required to drain out water to balancing tank.
- Recommended flow 7 m³/h.
- Solvent type.
- Dimension: 110 x 97 H mm



Ref. Code	Product Description
ASOFF250	Overflow gratings 250mm Wide
ASOFF300	Overflow gratings 300mm Wide

OVERFLOW GRATING

- Manufactured in ABS/PP with UV Protection.
- Comes in 250/300mm Wide.
- Single spine connection.
- Anti slip surface.

POOL BASIN FITTINGS - ABS



Ref. Code	Product Description
ASCMD150G	Circular Main Drain- Antivortex Frame & Grille in ABS 18 cu mtr/hr
ASCMD150F	Circular Main Drain- Flat Frame & Grille in ABS 18 cu mtr/hr

MAIN DRAIN GRILLE

- Manufactured in ABS
- Available for Concrete & pre fabricated pools
- Grille cover diameter is 150mm

NOTE: White & Half white available | All colours made available against orders | Granite & Marble finish fittings available against orders

Ref. Code	Product Description
ASCG250	Corner gratings 250mm PPG
ASCG300	Corner gratings 300mm PPG

CORNER GRATING

- This Corner Grating is used to ensure pool corners finished safely matching over flow gratings.
- 90° overflow corner gratings made in PP, matching grating colour of half white.
- This comes with non slip finish.



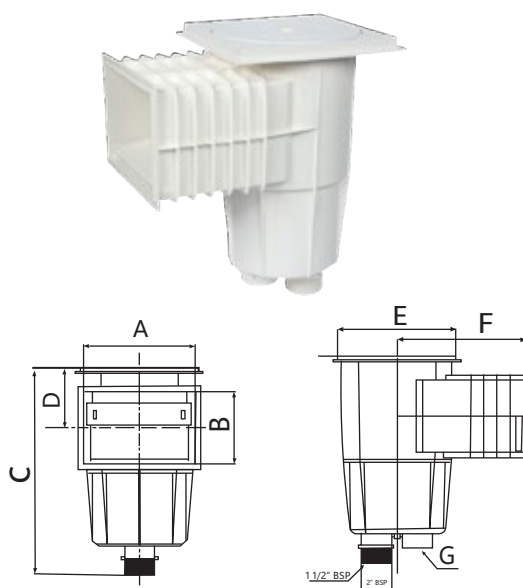
Ref. Code	Product Description
ASGP	Grating Profile - 1.5 metre Long

OVERFLOW GRATING PROFILE

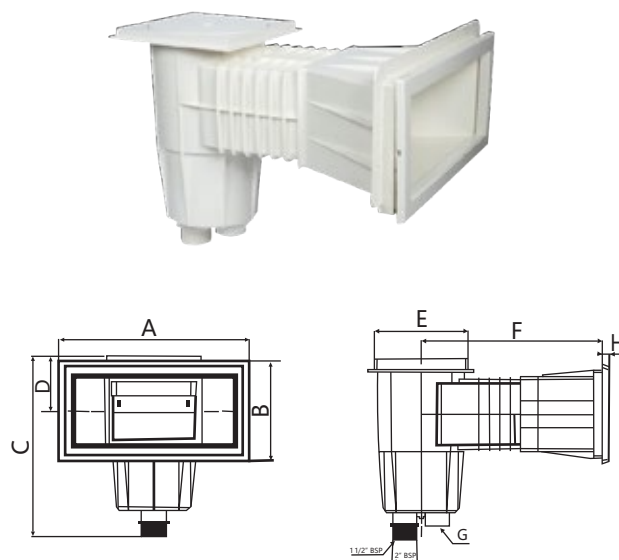
- This Profile is used to ensure the grating is inline with deck area.
- Suitable for 22, 24, and 35 mm high gratings.
- Made in PP.
- Supplied in 1.5 mtr lengths.

SKIMMER

Skimmer Standard - Concrete Pools



Standard skimmer



Wide mouth skimmer

Skimmer is ideally suited for pools where a full-size, residential performance, ABS Skimmer is desired. The corrosion proof series, Skimmer features a self-adjusting weir, large debris basket, flow control slide valve and auxiliary overflow port, multiple plumbing options allow for 50mm slip, 1-1/2" MTA and 2" FTA includes a vacuum plate for manual vacuuming of the pool with debris collected in the basket.

Maximum flow rate of 5 cu mtr/hr

LOCATION OF SKIMMER

To obtain the most effective Skimming action over the entire surface, locate the Skimmer relative to the prevailing wind and drift, shape of pool and water circulation pattern with water level at mid-point of Skimmer opening.

ADJUSTABLE COLLAR

1" Vertical adjustment to accommodate construction variances.

AUXILIARY PORTS

To remove the auxiliary ports drill a small pilot hole in the center of the knock out. Then using a drill up to, but not exceeding, 3/4" remove the remaining material.

FLOW CONTROL SLIDE PLATE

For full flow adjustment move flow control slide plate to full open. To reduce flow, move slide plate across pump outlet as needed.

MATERIALS

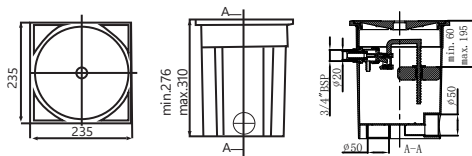
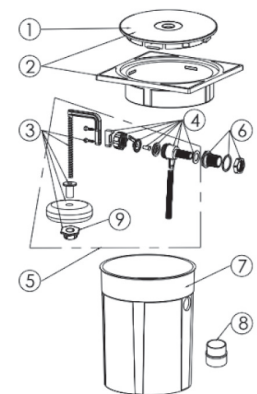
1. Lid
2. Skimmer Collar
3. Vac Plate
4. Skimmer Body
5. Weir Assembly
6. Basket Assembly
7. Flow Control Slide Plate

DIMENSIONS (IN MM)

Ref. Code	A	B	C	D	E	F	G	H
ASSK15	201	140	416	111	230x230	243	50	-
ASSKW	494	228	416	122	230x230	439	50	17

Note: Mini skimmer available on request.

Water Level Regulator / Pool Filler



www.aqvastar.in | www.aqvastar.sg

WATER HAS THE ABILITY TO BRING LIFE AND MOVEMENT TO A SPACE AND TO CONTINUALLY CHANGE ITS MOOD

Team Aqvastar compliments with its knowledge in your projects as water consultant

DESIGN

Preparing technical design intend in relation with reference Drawings

DETAILING

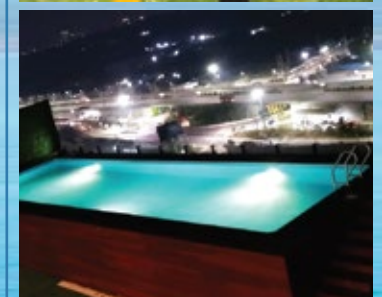
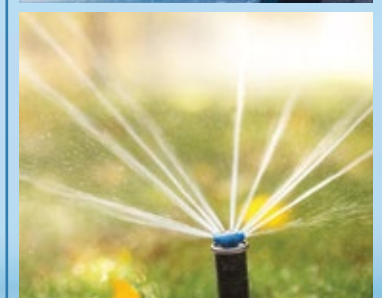
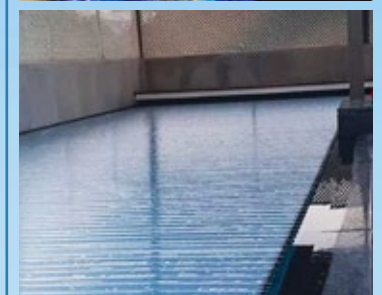
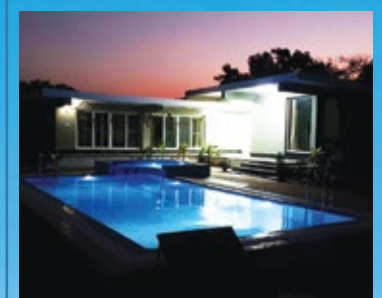
Detailed technical design and specification services for MEP consultants, Architects & Builders

SUPPLY

High quality product supply to compliments the design intend & detailing to achieve the desired effect of Architect & client.

INDUSTRY

Swimming pool/ Water feature/ Irrigation



POOL BASIN FITTINGS - SS



Ref. Code	Product Description
ASCMD150SS	Circular Main Drain- Frame in ABS & Grille in SS-18 m ³ /h

MAIN DRAIN - FOR RESIDENTIAL POOLS

- Manufactured in SS.
- Main drains available with Flat grille and a frame.
- Recommendation - Main drains must be arranged properly so that there is no risk of bathers being drawn towards them or trapped there.
- It is recommended that on all installations, a minimum of 2 main drains are installed 2 meters apart.



Ref. Code	Product Description
ASCMD200SS	8" Main drain with anti entrapment grille – 18 m ³ /h – Concrete pools

MAIN DRAIN - FOR RESIDENTIAL POOLS

- Manufactured in SS top cover and ABS bottom
- Main drains available with flat drain grille.
- Recommendation - Main drains must be arranged Properly so that there is no risk of bathers being drawn towards them or trapped there.
- It is recommended that on all installations, a minimum of 2 main drains are installed 2 meters apart.
- Threaded type.



Ref. Code	Product Description
ASMD200SS	Square Main Drain box 200x200 mm in SS

MAIN DRAIN - BOX

- Wall and bottom outlet
- Made of acid proof stainless steel.
- Polished front grating
- For deeper swimming pools it is a good idea to install a bottom outlet to prevent stagnant water at the bottom of the pool.
- Can also be used as outlet for water curtain or massage nozzle.
- Can be mounted in the wall or in the bottom of the pool.
- Recommended flow capacity max 20 m³/h.
- Suitable for all types of pools



Ref. Code	Product Description
ASMD225SS	Square Main Drain 225 x 225mm- Frame in ABS & Grille in SS 20 m ³ /h
ASMD300SS	Square Main Drain 300 x 300mm - Frame in ABS & Grille in SS 33 m ³ /h
ASMD500SS	Square Main Drain 500 x 500mm - Frame & Grille in SS 100 m ³ /h
ASMD600SS	Square Main Drain 600 x 600mm - Frame & Grille in SS 132 m ³ /h

MAIN DRAIN - FOR COMMERCIAL POOLS

- Manufactured in SS.
- Main drains available with Flat grille and a frame.
- Recommendation - Main drains must be arranged properly so that there is no risk of bathers being drawn towards them or trapped there.
- It is recommended that on all installations, a minimum of 2 main drains are installed 2 meters apart.

POOL BASIN FITTINGS - SS



Ref. Code	Product Description
ASWISCT	SS Adjustable Wall inlet Circle 2" threaded
ASWISCP	SS Adjustable Wall inlet Circle pushfit connection
ASWISCP-A	SS Adjustable Wall inlet Circle pushfit connection-ASTM

WALL INLETS

- Manufactured in SS.
- Recommended flow 9 m³/hr.
- Threaded type.
- Dimension: Ø 78 x 40 H mm



Ref. Code	Product Description
ASVPST	SS Vacuum point & plug circle 2" threaded
ASVPSCP	SS Vacuum point & plug circle pushfit connection
ASVPSCP-A	SS Vacuum point & plug circle pushfit connection-ASTM

VACUUM POINT

- Manufactured in SS.
- Vacuum Point is installed where an automatic pool cleaner or vacuum hose is to be fitted. These fittings are supplied with movable plug.
- Dimension: Ø 78 x 40 H mm



Ref. Code	Product Description
ASFISCT	SS Adjustable floor inlet circle 2" outer threaded
ASFISCP	SS Adjustable floor inlet circle pushfit connection
ASFISCP-A	SS Adjustable floor inlet circle pushfit connection-ASTM

FLOOR INLET

- Manufactured in SS.
- Floor inlet allows easy control of flow into the pool by adjusting the centre screw.
- Recommended flow 12 m³/h.
- Threaded type.
- Dimension: Ø 78 x 40 H mm.



Ref. Code	Product Description
ASOFFSS	SS Gutter drain Top 50 mm - UPVC 10kg pipe/ 40mm - SCH 40

OVERFLOW FITTING

- Manufactured in SS Top cover available with flat grille.
- Recommended flow 7 m³/h.
- Solvent type.

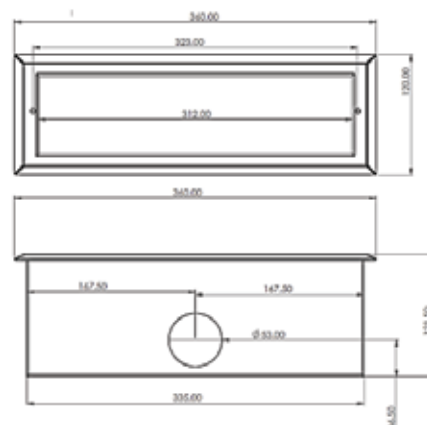
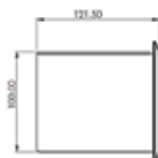
OVERFLOW GRATING

- Overflow gratings are available in SS316 with single spine connection
- Suitable for straight/curved pool channels.
- Available in 200, 250, 300 mm as standard.
- Non standard sizes available on request.



Ref. Code	Product Description
ASOFF250SS	Overflow gratings 250mm in SS - in metre
ASOFF300SS	Overflow gratings 300mm in SS - in metre

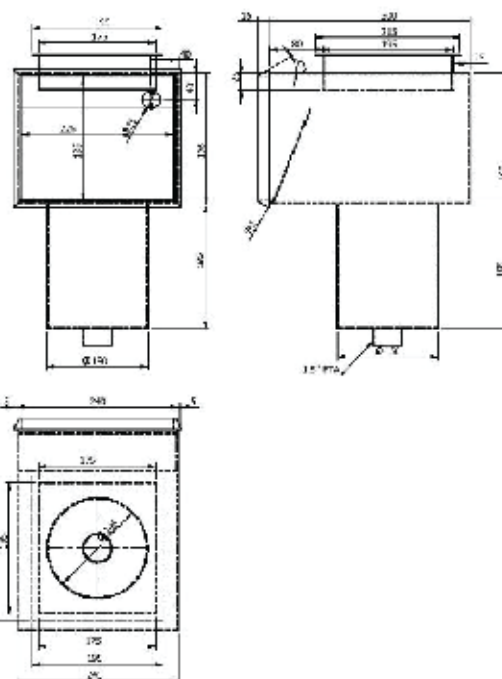
SS SKIMMER



Ref. Code	Product Description
ASSKSL	Sleek skimmer in SS with wall side access (3 m ³ /hr flow), 1.5" connection

SS SLEEK SKIMMER

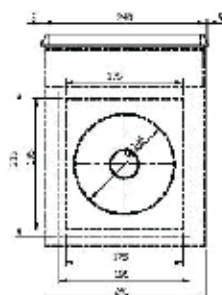
- Smart high water level sleek skimmer for concrete pools with frontal removable basket in stainless steel (316)
- Connection size: 1.5"
- Flow: 3 m³/hr
- Surface area covered: 15-20 m²



Ref. Code	Product Description
ASSK15SS	Standard Skimmer in SS, 1.5" FTA connection (5 m ³ /hr flow)

CLASSIC POOL SKIMMER (MADE IN SS316)

- Water leaves the pool through the skimmer which increases the surface flow rate and moves surface debris into the skimmer.
- The debris are collected in a filter basket and the water flows on to the sand filter for particle cleaning.
- Flow capacity max 5 m³/h.
- Vertically adjustable collar
- Equipped with large, high-capacity filter basket
- Connection for water level control
- Connection size: 1.5"



SPA FITTINGS - ABS



Ref. Code	Product Description
ASJN5032	Spa nozzles with a flow rate of 4.5 cu.mtr. water connection 50mm & air connection 32mm

Ref. Code	Product Description
ASSPD	Antivortex suction in ABS with 1.5" / 2" connections
ASCPSPD	Antivortex suction Chrome Plated with 1.5" / 2" connections

JACUZZI NOZZLE

- Manufactured in ABS.
- These high performance spa jets shall allow clients to have complete control of pressure and direction. Jets turn on/off by rotating the nozzle or jet face. Jets can be easily removed from inside the tub for servicing or cleaning.
- Flow 4.5 cu mtr/h @ 0.8 BAR.
- Connection size of 50 x 32 mm.
- Nozzle suitable for BS & ASTM pipes (Pls refer while ordering)

WALL MOUNTED DRAIN

- Manufactured in ABS & top cover chrome plated.
- Wall mounted installations.
- Hi-Flow rating of 128 GPM.
- Available in ABS/ CP FACIA- 1 1/2" sizes.
- Total open Area: 4.01 sq. in.



Ref. Code	Product Description
ASBLN	Air Bubbler nozzle with 20 mm Connection

Ref. Code	Product Description
ASAVC	Air volume controller to regulate the air flow in the nozzle

AIR BUBBLER NOZZLE

- Manufactured in ABS.
- Bubbler nozzle allows air into pool with air pipe network.
- Comes with tube/ solvent/ threaded connections so that it is easy to connect with pipe network.

AIR CONTROLLER

- Manufactured in ABS.
- Air controller capable of allowing air into the pipe network with the venturi arrangement available in jacuzzi nozzles.
- Comes with solvent/ threaded connections so that it is easy to connect with pipe work.
- Top Portion is adjustable enabling quantity of air movement in to pipe network

SPA FITTINGS - ABS



Ref. Code	Product Description
ASPB	Push button ABS with 1" threaded connections.

PUSH BUTTON

- Manufactured in ABS.
- These air buttons push air to your controller to operate the blower.
- Air buttons are located at spa-side and are used to control the air switches which are connected to your spa equipment.
- It comes with Threaded connection / Check nut
- 3-4 mm Air tube connection.



Ref. Code	Product Description
ASPNS	Pneumatic switch for pump control panel to connect the push button.

PNEUMATIC SWITCH

- Manufactured in ABS.
- Single function control switches provide safe actuation of electrical devices from remote locations.
- Connected with 3-4 air tube on one side & other side connected with pump control panel.

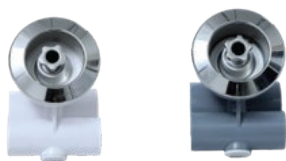


Ref. Code	Product Description
ASAT	Air Tube Per Meter.

AIR TUBE

- Manufactured in PP.
- Coil of Air tube is 15 mtr length.

SPA FITTINGS - SS



Ref. Code	Product Description
ASJN5032SS	Spa nozzles with a flow rate of 4.5 cu.mtr. Water connections: 50mm & air connections: 32mm (Facia & Adjustable knob in SS316)

JACUZZI NOZZLE

- Body in ABS. Facia & Adjustable knob in SS316
- These high performance spa jets shall allow clients to have complete control of pressure and direction. Jets turn on/off by rotating the nozzle or jet face. Jets can be easily removed from inside the tub for servicing or cleaning.
- Flow 4.5 cu mtr/h @ 0.8 BAR.
- Connection size of 50 x 32 mm.
- Nozzle suitable for BS & ASTM pipes (Pls refer while ordering)



Ref. Code	Product Description
ASBLNSS	Air Bubbler Nozzle in SS316, Top dia 38mm, Bottom connection 1/2" threaded/ pushfit 20mm dia

AIR BUBBLER NOZZLE

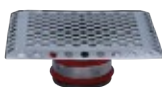
- Manufactured in SS316.
- Bubbler nozzle allows air into pool with air pipe network.
- Comes with tube/ solvent/ threaded connections so that it is easy to connect with pipe network.



Ref. Code	Product Description
ASAVCSS	Air volume controller in SS to regulate the air flow in the nozzle (Bottom portion in ABS)

AIR CONTROLLER

- Bottom portion in ABS. Adjustable ring in SS316.
- Air controller capable of allowing air into the pipe network with the venturi arrangement available in jacuzzi nozzles.
- Comes with solvent/ threaded connections so that it is easy to connect with pipe work.
- Top Portion is adjustable enabling quantity of air movement in to pipe network



Ref. Code	Product Description
ASSPDSS	Spa suction drain 110x110 mm in SS with 1.5" / 2" Straight / pushfit connection

WALL MOUNTED DRAIN

- Manufactured in SS316.
- Wall mounted installations.
- Hi-Flow rating of 128 GPM.
- Available in ABS/ CP FACIA- 1 1/2" sizes.
- Total open Area: 4.01 sq. in.



Ref. Code	Product Description
ASPBSS1	Pneumatic Push Button in SS 316 Box
ASPBSS2	Pneumatic Push Button & Air controller in SS 316 Box

PUSH BUTTON

- Manufactured in SS316.
- These air buttons push air to your controller to operate the blower.
- Air buttons are located at spa-side and are used to control the air switches which are connected to your spa equipment.
- It comes with Threaded connection.
- 3-4 mm Air tube connection

HARVIA



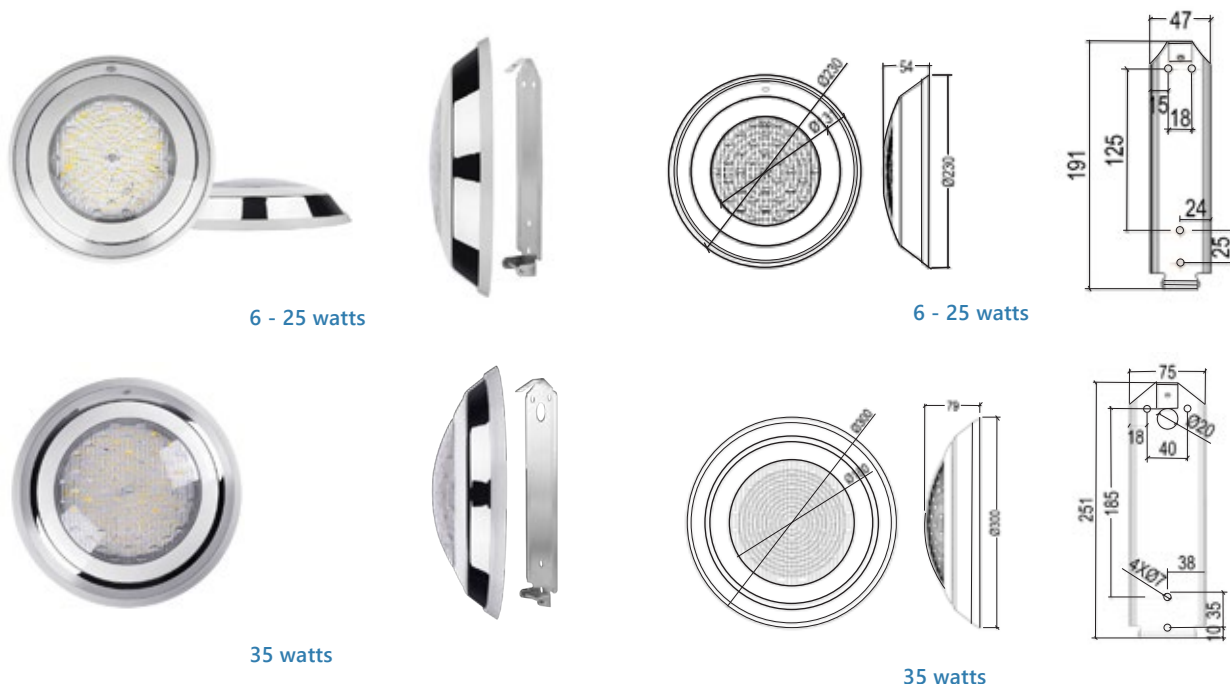
Your relaxation is our business
**WHEN IT COMES TO WET LEISURE,
WE ARE THE EXPERTS.**

Pleasure all your senses with the Harvia spa experience. Harvia knows how the perfect experience is created - the experience that will raise your spa a touch above the others. The best-known sauna heaters, steam generators, and infrared radiators in the world create a pleasing sensation, the soundscape from the loudspeakers soothes the mind, the lighting creates the right mood, the beautiful design and natural wooden materials please the eye and the sauna fragrances complete the experience. As a sauna and spa professional, Harvia can offer you everything that you need to create the perfect spa experience.



LED LIGHTS

Wall Mounted SS Lights with ABS ring



Wall mounted niche less lights are built of stable, heat-resistant plastic materials. This flood lamp has been designed to be used fully submerged it is a class III electric part with low safety voltage & complies with IP68 degree protection at a normal depth of 2 meters. Cross head mount with screws are supplied as part of light to fix in the wall. This light comes with high quality LED bulb, GEL filled for long life of product.

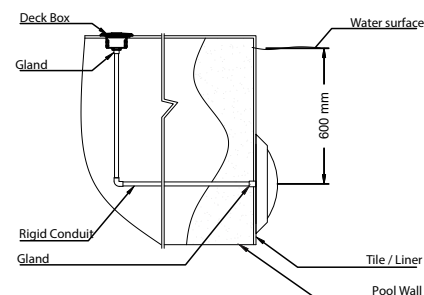
FEATURES:

- Colour - Warm white | Cool white | RGB
- 120 deg Beam angle LED.
- 115 lumens per watt highest in industry (only for single color)
- Uniform Illumination.
- Long life LEDs up to 50000 working hours.
- 100% Epoxy filled complete sealing.
- Easy installation - these lights can be mounted on all sorts of swimming pool.
- Transformer/driver 230 input/ 12 Volt

NOTE: Single color light goes with driver
RGB color light goes with Transformer

MATERIALS

Housing - SS body with ABS plastic/ SS facia ring
Gasket - Silicon washer.
Diffuser - Polycarbonate.
Power - 6 / 12 / 18 / 25 / 35 watts



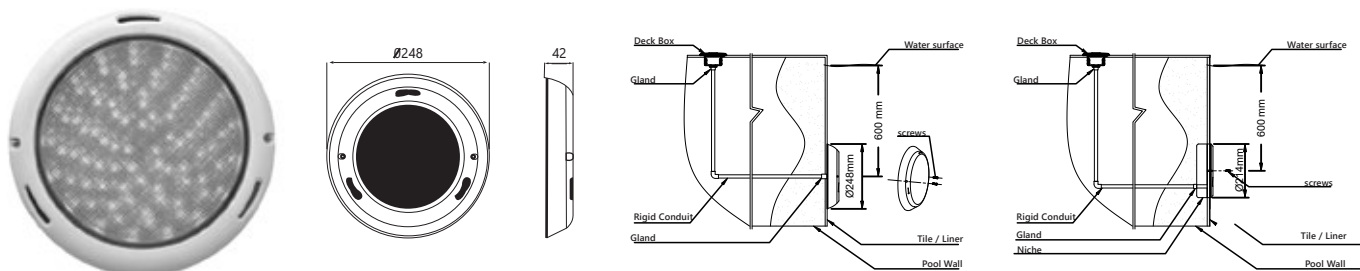
TECHNICAL SPECIFICATION

Type	Ref. Code	Wattage	Volt	Box Dimensions (mm)	Product dimensions (mm)
Wall mounted light with SS Facia Ring - WW	ASWML6WWSS	6	12	250 x 250 x 60	Ø 230 x 54
Wall mounted light with SS Facia Ring - CW	ASWML6CWSS	6	12	250 x 250 x 60	Ø 230 x 54
Wall mounted light with SS Facia Ring - WW	ASWML12WWSS	12	12	250 x 250 x 60	Ø 230 x 54
Wall mounted light with SS Facia Ring - CW	ASWML12CWSS	12	12	250 x 250 x 60	Ø 230 x 54
Wall mounted light with SS Facia Ring - WW	ASWML18WWSS	18	12	250 x 250 x 60	Ø 230 x 54
Wall mounted light with SS Facia Ring - CW	ASWML18CWSS	18	12	250 x 250 x 60	Ø 230 x 54
Wall mounted light with SS Facia Ring - WW	ASWML25WWSS	25	12	250 x 250 x 60	Ø 230 x 54
Wall mounted light with SS Facia Ring - WW	ASWML35WWSS	35	12	300 x 300 x 75	Ø 300 x 79
Wall mounted light with SS Facia Ring - RGB	ASWML6RSS	6	12	250 x 250 x 60	Ø 230 x 54
Wall mounted light with SS Facia Ring - RGB	ASWML12RSS	12	12	250 x 250 x 60	Ø 230 x 54
Wall mounted light with SS Facia Ring - RGB	ASWML18RSS	18	12	250 x 250 x 60	Ø 230 x 54

Note: Suitable size (3 core) of cable use is vital for the performance of the product (For larger pool, pls speak to Aqvastar for technical assistance)

LED LIGHTS

Wall Mounted ABS light



Wall mounted niche less lights are built of stable, heat-resistant plastic materials. This flood lamp has been designed to be used fully submerged. It is a class III electric part with low safety voltage & complies with IP68 degree protection at a normal depth of 2 meters. Cross head mount with screws are supplied as part of light to fix in the wall. This light comes with high quality LED bulb, GEL filled for long life of product.

FEATURES:

- Colour - Warm white I Cool white I RGB
- 163 deg Beam angle LED.
- 115 lumens per watt highest in industry. (only for single color)
- Uniform Illumination.
- Long life LEDs up to 50000 working hours.
- 100% Epoxy filled complete sealing.
- Easy installation - these lights can be mounted on all sorts of swimming pool.
- Transformer/ driver 230 input/ 12 Volt output.

MATERIALS

Housing - ABS plastic with ABS facia
Gasket - Silicon washer.
Diffuser - Polycarbonate.
Power - 6 / 18 watts

NOTE: Single color light goes with driver
RGB color light goes with Transformer

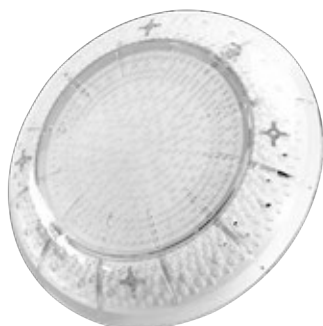
TECHNICAL SPECIFICATION

Type	Ref. Code	Wattage	Volt	Box Dimensions (mm)	Product Dimensions (mm)
Wall & Niche mounted light - WW	ASWML18WW	18	12	275 x 275 x 85	Ø 248 x 42
Wall & Niche mounted light - CW	ASWML18CW	18	12	275 x 275 x 85	Ø 248 x 42
Wall & Niche mounted light - RGB	ASWML18R	18	12	275 x 275 x 85	Ø 248 x 42
Wall & Niche mounted light - WW	ASWML6WW	6	12	275 x 275 x 85	Ø 248 x 42
Wall & Niche mounted light - CW	ASWML6CW	6	12	275 x 275 x 85	Ø 248 x 42
Wall & Niche mounted light - RGB	ASWML6R	6	12	275 x 275 x 85	Ø 248 x 42

Note: Suitable size (2 core) of cable use is vital for the performance of the product (For larger pool, pls speak to Aqvastar for technical assistance)

LED LIGHTS

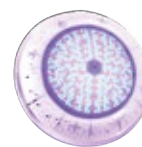
Wall mounted light



Light Color



Cool White (10000K)



RGB (14 modes)



Warm White (4000K)

FEATURES:

- With the best LED technology, Nicheless E-Lumen mounts directly on the wall for simply installation.
- Concrete & Vinyl Pool Compatible
- Light-duty of power usage works well with standard 12V transformer

FACE RING COLOR OPTIONS



White



Blue



Grey



Stainless Steel



Transparent

PRODUCT DETAILS:

Waterproof Standard

IP68

Cable

2.5m

Material

ABS+ UV Stabilizer

Installation

Wall Mounted (Flat Type)

Color



RGB



LED Warm White



LED Cool White

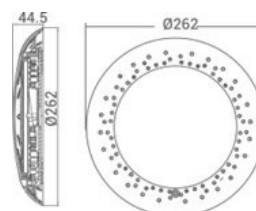
Simple installation



Mounting Bracket
(concrete pool)



Mounting Plate
(vinyl pool)



TECHNICAL SPECIFICATION

Ref.Code	LED Bulb	Watt/ Voltage	Illuminance (lux)	Color
ASWML20WW	252 LEDs Bulb	20W/12V	415	Warm White (4000k)
ASWML20CW	252 LEDs Bulb	20W/12V	346	Cool White (10000K)
ASWML20R	252 LEDs Bulb	20W/12V	166	RGB
ASWML35WW	441 LEDs Bulb	35W/12V	613	Warm White (4000k)
ASWML35CW	441 LEDs Bulb	35W/12V	550	Cool White (10000K)
ASWML35R	441 LEDs Bulb	35W/12V	273	RGB



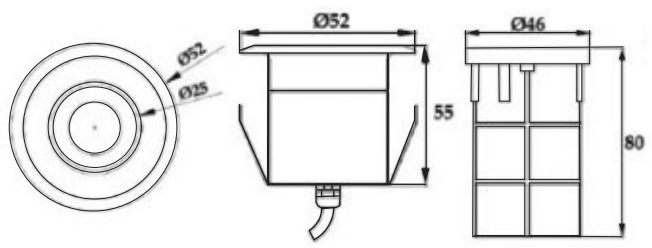
With SS facia for Niche mount installation

(Can match any manufacturer's niche)

Note: Suitable size (2 core) of cable use is vital for the performance of the product (For larger pool, pls speak to Aqvastar for technical assistance)

LED LIGHTS

Niche Mounted Lights



FEATURES:

- Colour - Warm white | Cool white | RGB
- 120 deg Beam angle LED.
- 115 lumens per watt highest in industry (Only for single color)
- Uniform Illumination.
- Long life LEDs up to 50000 working hours.
- 100% Epoxy filled complete sealing.
- Easy installation: Designed to be installed in steps or kids pool with conduit
- Transformer/driver 230 input/ 12 Volt output.

NOTE: Single color light goes with driver
RGB color light goes with transformer

PRODUCT DETAILS

-  IP Rating
IP 68
-  Lens Material
6mm thickness Tempered glass
-  Color Temperature
2800K 4000K 6000K
-  Optional Dimmer
DALI 0/1-10V
-  Body Material
Stainless Steel 316
-  Light Source
CREE
-  Emitting Color
RGB

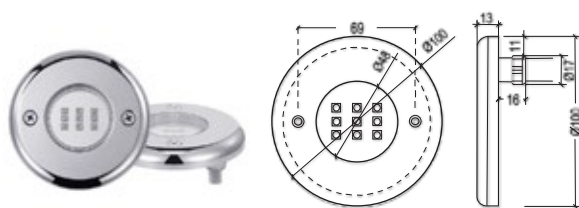
TECHNICAL SPECIFICATION

Ref. Code	LED Brand	Power Options	Control Options	Voltage	Beam Angle
ASNSM1SS	CREE	3W	RGB/RGBW	12V/24V AC/DC	15°
					30°
					45°
					60°

Note: Suitable size (2 core) of cable use is vital for the performance of the product (For larger pool, pls speak to Aqvastar for technical assistance)

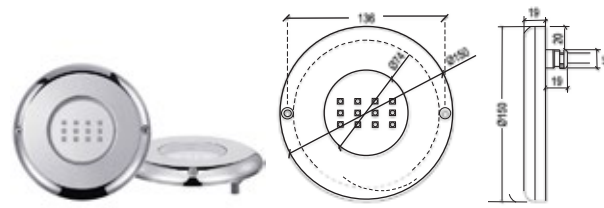
SMART LED LIGHTS

Wall Mounted Lights with sleek niche

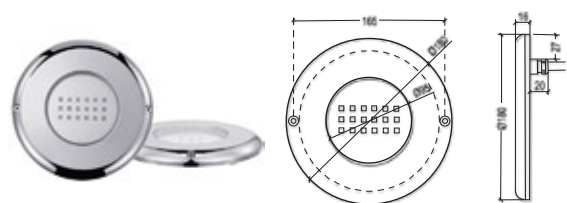


ASWM3SS, ASWM6SS, ASWM10SS, ASWM18SS

Note: Product picture shown here is 18w light. Other wattages might vary.



ASWM25SS, ASWM35SS



ASWM60SS



NICHE

AQVASTAR - All stainless steel sleek design flat wall mounted lights are unique in design with unparalleled finish and quality

PRODUCT DETAILS

-  **Body Material**
Stainless steel 316
-  **Lifespan**
≥50,000 Hours
-  **Wire**
VDE Certification
-  **Lens Material**
PC
-  **Working Temperature**
-20°C ~ 40°C
-  **Light Source**
CREE
-  **IP Rating**
IP 68

TECHNICAL SPECIFICATION

Ref. Code	LED Brand	Power Options	Control Options	Voltage	Beam Angle
ASWM3SS ASWM6SS	CREE	3W 6W	Single Color RGB/RGBW (4 Wires)	12V/24V DC	120°
ASWM10SS ASWM18SS	CREE	10W 18W 35W	Single Color RGB/RGBW(4 Wires) Single Color	12V/24V DC	120°
ASWM25SS ASWM35SS ASWM60SS	CREE	18W 25W 35W 60W 25W(RGBW)	Single Color RGB/RGBW RGB/RGBW (4 Wires) Single Color RGBW (5 Wires)	12V/24V AC/DC 12V/24V AC 12V/24V DC 12V/24V AC/DC 12V/24V DC	120°

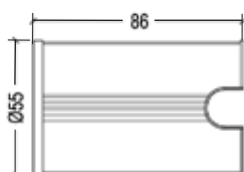
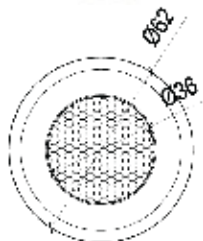
Note: Standard Angle is 120°

This model requires niche. Other details like lumen output available on request.

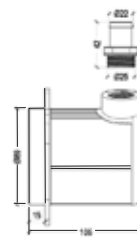
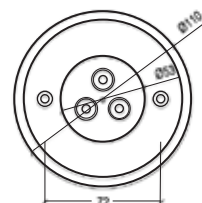
Suitable size (2 core) of cable use is vital for the performance of the product (For larger pool, pls speak to Aqvastar for technical assistance)

SMART LED LIGHTS

Niche / Stand Mounted Light



ASNSM3SS

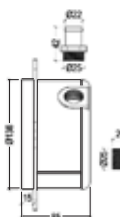
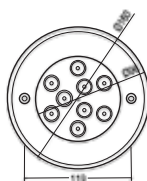


ASNSM6SS

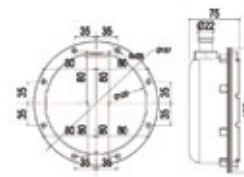
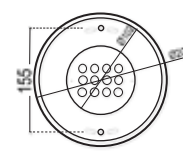
AQVASTAR - All Stainless Steel Pool / Fountain, Niche/ Stand mounted lights are unique in design with unparalleled finish & quality

PRODUCT DETAILS

- Body Material**
Stainless steel 316
- Lifespan**
≥50,000 Hours
- Wire**
VDE Certification
- Lens Material**
8mm thickness tempered glass
- Working Temperature**
-20°C ~ 40°C
- Light Source**
CREE
- IP Rating**
IP 68



ASNSM12SS



ASNSM35SS

Note: Lights shown here are for illustrative purpose only. Other wattages might vary.

TECHNICAL SPECIFICATION

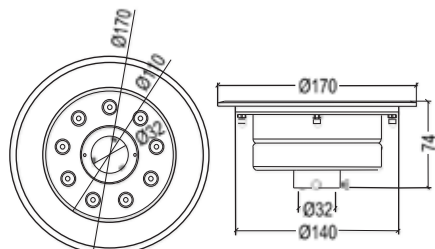
Ref. Code	Led Brand	Power Options	Control Options	Voltage	Beam Angle	Light Description
ASNSM3SS ASNSM6SS	CREE	3W	Single Color	12V/24V AC/DC	15°	Long irradiation distance Concentration effect
		6W	RGB/RGBW	12V/24V AC	30°	
			RGB/RGBW(4 Wires)	12V/24V DC	45°	
		6W(RGBW)	RGBW(5 Wires)	12V/24V DC	60° 90°	
ASNSM9SS ASNSM12SS ASNSM18SS ASNSM30SS ASNSM35SS ASNSM45SS ASNSM60SS	CREE	6W 9W	Single Color	12V/24V AC/DC	15° 30° 45° 60° 90°	Long irradiation distance Concentration effect
12W		RGB/RGBW	12V/24V AC			
30W		RGB/RGBW (4 Wires)	12V/24V DC			
35W						
45W		DMX512	12V/24V DC			
60W		RGB/RGBW	12V/24V AC			
12W(RGBW)		RGBW (5 Wires)	12V/24V DC			

Note: Standard Angle is 120° for stand and niche mounted lights. Other details like lumen output available on request.

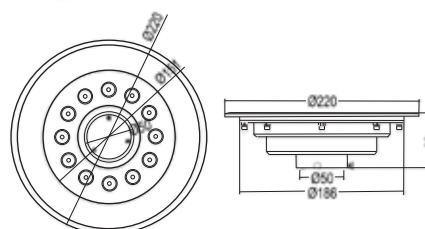
Suitable size (3 core) of cable use is vital for the performance of the product (For larger pool, pls speak to Aqvastar for technical assistance)

SMART LED LIGHTS

Nozzle Mounted Light



ASRL9SS1



ASRL12SS2

Note: Lights shown here are for illustrative purpose only. Other wattages might vary.

AQVASTAR - All Stainless Steel Pool /Fountain, Nozzle mounted lights are unique in design with unparalleled finish & quality

PRODUCT DETAILS



Body Material
Stainless steel 316



Lifespan
≥50,000 Hours



Wire
VDE Certification



Lens Material
8mm thickness tempered glass



Working Temperature
-20°C ~40°C



Light Source
CREE



IP Rating
IP 68

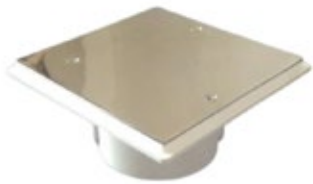
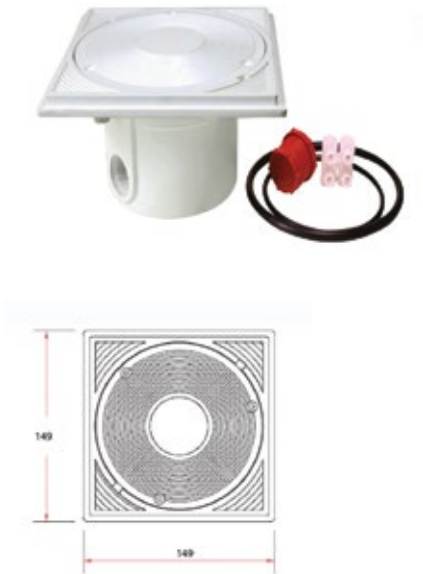
TECHNICAL SPECIFICATION

Ref. Code	LED Brand	Power Options	Control Options	Voltage	Beam Angle
ASRL3SS1	CREE	3W	Single Color	12V/24V AC/DC	15° 30° 45° 60° 90°
ASRL6SS1		6W	RGB/RGBW	12V/24V AC	
ASRL9SS1		9W	RGB/RGBW(4Wires)	12V/24V DC	
ASRL12SS1		12W	DMX 512	12V/24V DC	
		12W(RGBW)	RGB/RGBW	12V/24V AC	
			RGBW(5Wires)	12V/24V DC	
ASRL9SS2	CREE	9W	Single Color	12V/24V AC/DC	
ASRL12SS2		12W	RGB/RGBW	12V/24V AC	
ASRL18SS2		18W	RGB/RGBW(4Wires)	12V/24V DC	
		18W(RGBW)	DMX 512	12V/24V DC	
			RGB/RGBW	12V/24V AC	
			RGBW(5Wires)	12V/24V DC	

Note: Standard Angle is 45° for ring lights. Other details like lumen output available on request.

Suitable size (3 core) of cable use is vital for the performance of the product (For larger pool, pls speak to Aqvastar for technical assistance)

DECK BOX



- Deck mounted junction box for connecting the power cable between the light and the power source. Power source could be a driver/ Transformer or SMPS. The ASDB deck box has a square frame to make tiling easier and its double O'ring sealing system makes it IP65 - jet proof and water tight.
- This deck box allows the pool side connection around 12V /24 V cables from the source to join cables in an IP65 waterproof enclosure.
- Typically your power cable will be connected into one of the side sockets & the plastic conduit pipe which runs down to the light which connects into the bottom of the deck box and gets cable from light.
- The Junction Boxes are the best way to ensure watertight connections between cable inside the pool.
- Made from white ABS. IP65 weather protection has 3 threaded outlets of 3/4" Supplied with set of electrical connectors and threaded couplers. Size of the square lid: 149 x 149mm. Height: 79mm

Ref.Code	Product Description
ASDB	Deck box (Suitable for use for Lights) IP65
ASDBS	Deck box (Suitable for use with Lights) IP65 with SS Top cover

As an option we shall offer top cover with SS316

POOL LADDERS

LADDER -

- Aqvastar 1.7"/43mm ladders are now supplied with stainless steel anti - slip threads as standard as well as the new Aqvastar 1.7"/43mm pinch anchor provides a secure sturdy installation on all types of pool surround. All 1.7"/43mm ladders are now manufactured in 304 grade stainless steel as standard, 316 grade stainless steel model are available on request with long lead time.
- Suitable for concrete & liner pools
- Ladders comes with Double top threaded steps on overflow & under cover ladder
- Also double thread available as spare for other ladders at extra cost



CLUB LADDER

Ref. Code	Product Description
ASCL2	2 STEP SS 304 CLUB LADDER
ASCL3	3 STEP SS 304 CLUB LADDER
ASCL4	4 STEP SS 304 CLUB LADDER
ASCL5	5 STEP SS 304 CLUB LADDER



OVERFLOW LADDER (FIRST STEP WITH DOUBLE THREADS-OPTIONAL)

Ref. Code	Product Description
ASOFF2	2 STEP SS 304 OVERFLOW LADDER
ASOFF3	3 STEP SS 304 OVERFLOW LADDER
ASOFF4	4 STEP SS 304 OVERFLOW LADDER
ASOFF5	5 STEP SS 304 OVERFLOW LADDER



STANDARD LADDER

Ref. Code	Product Description
ASSTD2	2 STEP SS 304 STANDARD LADDER
ASSTD3	3 STEP SS 304 STANDARD LADDER
ASSTD4	4 STEP SS 304 STANDARD LADDER
ASSTD5	5 STEP SS 304 STANDARD LADDER



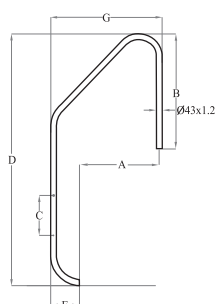
UNDERCOVER LADDER (FIRST STEP WITH DOUBLE THREADS-OPTIONAL)

Ref. Code	Product Description
ASUCL2	2 STEP SS 304 UNDER COVER LADDER
ASUCL3	3 STEP SS 304 UNDER COVER LADDER
ASUCL4	4 STEP SS 304 UNDER COVER LADDER
ASUCL5	5 STEP SS 304 UNDER COVER LADDER

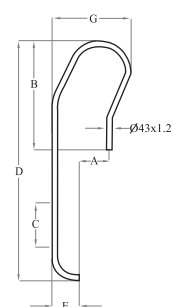
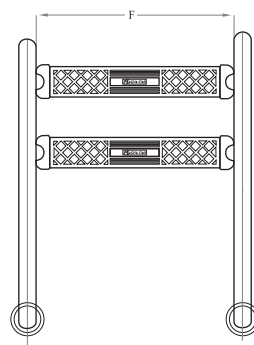
WHERE TO USE

- Standard Ladder : Pool with skimmers
- Overflow Ladder : Pool with Overflow channels
- Club Ladder : For both skimmer & overflow channels pools (Placed in pool wall)
- Under cover Ladder : For Pool with pool cover comes with a flange connection (To allow pool cover movement smoothly)

POOL LADDERS

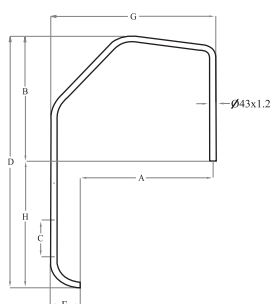


LADDER STEPS



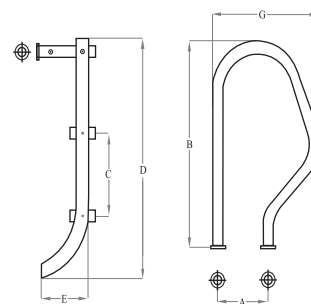
STANDARD LADDER

Ref. Code	Steps	A	B	C	D	E	F	G
ASSTD2	2	510	720	250	1320	200	500	700
ASSTD3	3	510	720	250	1570	200	500	700
ASSTD4	4	510	720	250	1820	200	500	700
ASSTD5	5	510	720	250	2070	200	500	700



CLUB LADDER

Ref. Code	Steps	A	B	C	D	E	F	G
ASCL2	2	160	640	250	1330	200	500	525
ASCL3	3	160	640	250	1580	200	500	525
ASCL4	4	160	640	250	1830	200	500	525
ASCL5	5	160	640	250	2080	200	500	525



OVERFLOW LADDER

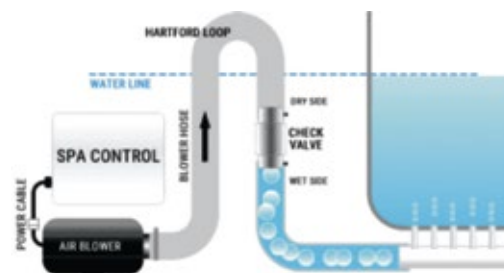
Ref. Code	Steps	A	B	C	D	E	F	G	H
ASOFF2	2	842	750	250	1460	200	500	1042	710
ASOFF3	3	842	750	250	1710	200	500	1042	960
ASOFF4	4	842	750	250	1960	200	500	1042	1210
ASOFF5	5	842	750	250	2210	200	500	1042	1460

UNDERCOVER LADDER

Ref. Code	Steps	A	B	C	D	E	F	G
ASUCL2	2	260	800	250	450	200	500	470
ASUCL3	3	260	800	250	710	200	500	470
ASUCL4	4	260	800	250	960	200	500	470
ASUCL5	5	260	800	250	1210	200	500	470

Dimensions (in mm)

AIR BLOWER



All AQVASTAR units are manufactured in die-cast aluminium alloy, which ensures consistent high quality and productivity. Production costs are minimised due to modular construction.

Standard models are directly coupled to electric motors which also manufactured for AQVASTAR. Standard motors are two pole, totally enclosed air cooled, continuous duty rated, IP 55 protected, class F insulation, and meet the CEI 2/3 1988 specification.

AQVASTAR is convinced that minimum cost of ownership is of paramount importance. This is achieved by :

- Using the latest technology in design, manufacturing and testing to achieve maximum performance with minimum energy input.
- Operating a formal quality system to ISO 9001.
- Continuously monitoring prices.
- Never compromising on performance and price.

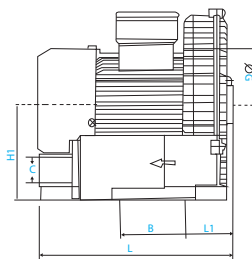
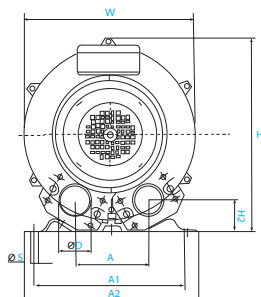
AIR LOOP

- Setting up air loop is critically important to protect air blower.
- Air loop is extending a section of the air system's plumbing line above the water line (as per picture)
- Technically position of air loop to be as close as the fixture inside the pool (above 300mm water level)

TECHNICAL SPECIFICATION

Ref. Code	Voltage V	Current A	Max Pressure Kpa	Max Flow m ³ /h	Max vacuum Kpa	Power kW	Rotational Speed r/min	Noise@ 1mtr dB(A)	N.W kg	G.W kg	Packing Size (cm)
ASAB-250	220	2.5(3.0)	12(14)	48(57)	8.5(10)	0.25(0.30)	2800(3400)	<56	10.6	11.2	31*28*28
ASAB-370	220	3.5(4.2)	16(19)	60(70)	11(13)	0.37(0.44)	2800(3400)	<56	11	11.7	31*28*28
ASAB-550	220	4.8(5.76)	20(24)	110(132)	16(19)	0.55(0.66)	2800(3400)	<60	12.6	14.1	32*31*30
ASAB-750	220	6.3(7.56)	22(25)	145(170)	18(20)	0.75(0.90)	2800(3400)	<60	16.5	18.0	35*32*33
ASAB-1100	220	8.7(10.44)	25(30)	210(245)	20(24)	1.1(1.3)	2800(3400)	<60	23	24.7	37*37*38
ASAB-1500	220	11.8(14.16)	26(31)	220(255)	21(25)	1.5(1.8)	2800(3400)	<60	23.4	28	37*37*38
ASAB-2200	220/380	8.52(10.22) 4.92(5.91)	36(43)	325(365)	28(33)	2.2(2.6)	2800(3400)	<70	29	31.5	42*42*42
ASAB-3000S	220/380	11.07(13.29) 6.39(7.67)	37(44)	390(430)	30(35)	3.0(3.6)	2800(3400)	<70	38	43.5	43*44*44
ASAB-7500S	220/380	25.98(34.19) 15(19.74)	45(52)	550(640)	35(42)	7.5(9.0)	2800(3400)	<70	65	74	48*50*52
ASAB-11000S	380	28(38)	75(85)	1050(1200)	40(52)	11(12.5)	2800(3400)	<70	120	135	69*58*61

AIR BLOWER



HOW IT WORKS

An impeller directly coupled to the extended shaft of an electric motor has a large number of short radial blades that are enclosed in a die cast aluminium casing.

- When the impeller rotates, the air between the blades is radially and circumferentially accelerated and forced where it is again radially and circumferentially accelerated.
- The air is transported along a spiral path through the impeller and the side channel until it reaches the discharge port.
- The unit has only one moving part; a carefully balanced rotating impeller.
- There is no contact between the impeller and the housing thus eliminating abrasion and wear.
- The unit is completely oil free and the suction and discharge ports have built in silencers that reduce noise levels to a minimum.
- The pressure and flow rates have a tolerance of $\pm 10\%$.
- Sound-pressure data in accordance to ISO 3746-1979 (E) norms.
- The vacuum curves are valid for pumping air, with a temperature of 30°C at the inlet flange and with a pressure of 1013 mbar at the discharge port.
- The pressure curves are valid for pumping air, with an average temperature of 30°C , a density of $1,23 \text{ kg/m}^3$ and 1013mbar at the inlet flange.

DIMENSIONS (IN MM)

Size	L	w	H	H1	H2	A	A1	A2	L1	B	G	D	S	C
Ref.Code											$\varnothing$	$\varnothing$	$\varnothing$	
ASAB-250	260	246	247	120	37	90	205	235	62	83	140	49	8.5	M41
ASAB-370	260	246	247	130	38	90	205	235	62	83	140	49	10	M41
ASAB-550	277	268	272	155	47	93	205	265	66	83	162	49	12	M41
ASAB-750	300	286	302	165	58	111	225	265	80	95	173	50	12	M47
ASAB-1100	325	335	340	190	61.5	115	270	300	30	140	200	60	14	M60
ASAB-1500	325	335	340	190	61.5	115	270	300	30	140	200	60	14	M60
ASAB-2200	377	382	385	192	56	125	290	326	103	140	256	60	14	M60
ASAB-3000	402	408	410	210	56	140	313	345	103	140	256	60	14	M60
ASAB-4000	435	418	470	237	110	143	315	330	113	185	280	76	14	G2.5
ASAB-5500	475	446	480	250	118	148	360	415	100	170	288	76	15	G2.5
ASAB-7500	475	446	480	250	118	148	360	415	100	170	288	76	15	G2.5
ASAB-11000	660	550	570	300	92	207	360	415	89		490	110		G4



ALL TITANIUM

EVOLUTION 2

The most popular heater
on the market for spas and
residential pools.



FEATURES

- Ten power options ranging from 1-kW to 24-kW
- Easy installation, fully equipped and pre-wired
- Robust, durable construction
- Ultra-reliable flow switch for safe operation
- Fitted with temperature thermostat and overheating sensor
- Analogue control with 1.2°C differential or digital control with 0.5°C differential and selectable multi-lingual display
- Titanium flow tube and titanium heating element
- Can be floor or vertically wall mounted
- Vortex, long life, stay clean heating element technology
- 100% efficiency throughout the product life
- Silent operation

ELECRO
ENGINEERING

Improving water heating and
sanitisation globally since 1997

For more details, please visit

elecro.co.uk



PROGRAMMABLE POOL HEATER

OPTIMA COMPACT

**The energy saving pool
heater that operates in
complete silence.**



FEATURES

- 11 power options ranging from 1-kW to 24-kW
- Easy installation, fully equipped and pre-wired
- Ultra-reliable flow switch for safe operation
- Fitted with temperature thermostat and overheating sensor
- Titanium flow tube and titanium heating elements
- Touchscreen control with soft-start for power supply protection
- 100% efficiency throughout the product life
- For above ground pools, spas and residential pools

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ENGINEERING

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sanitisation globally since 1997

For more details, please visit

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HEAT PUMP

Domestic Heat Pump



21-31 kw units



Upto 17 kw units

- Patented high-performance titanium exchanger has more stable performance and greatly resist erosion of chlorine ion water, solid and durable
- Exterior is powder coated mild steel, corrosion resistant casing material
- By using high-heat exchanger technology, 65-80% of running cost can be saved compared with other heating machines. It consumes 1kw to produce about 5.5kw heating capacity, possessing high COP
- Remote and intelligent controller design with Celsius or Fahrenheit temperature display for options
- LCD or colorful LED controller for options
- Super power failure memory
- Flow switch built-in to avoid the low level water or devoid of water
- Advanced technology to mute noise from compressors and fans
- Heating and cooling with reversible defrosting
- Gauges installed to read pressure of refrigerant, which is an added advantage to monitor compressors
- Wi-fi enabled system
- Gas: R410A
- A provision is available for synchronizing the pool filter pump using a separate cable.

Note: 1. Heat pump sizing is influenced by ambient day temperature, humidity, presence of pool cover, night temperature, water features in pool & hours of operation of pool, pool location, wind movement.
 2. Performance of heatpump directly proportionate to the location of installation, Please allow 1 meter in all sides for side fans heatpump.
 3. We suggest suitable stabilizer to ensure constant power supply for longer life.

SIZING CHART TO HEAT YOUR POOL TO 28 DEG C (HEAT PUMP MODEL NO'S GIVEN)

Pool Size		Temperate Zone		Warm Zone		Cold Zone	
		8-12 hrs / Day		8-12 hrs / Day		8-12 hrs / Day	
in Mtrs	in Ltrs	with Pool cover	without Pool Cover	with Pool cover	without Pool Cover	with Pool cover	without Pool Cover
3 x 7	Up to 30000	14	26	14	26	17	31
4 x 8	Up to 40000	17	31	14	26	26	2x26
5 x 10	Up to 60000	26	2x26	17	31	31	2x31
6 x 12	Up to 90000	31	2x31	26	2x26	2x26	2x 45
6 x 15	Up to 112000	2x26	2x 45	31	2x31	45	2x 45
6 x 18	Up to 130000	45	2x 45	2x26	2x 45	55	2x 55
6 x 21	Up to 160000	55	2x 55	45	2x 45	55	2x 55
6 x 25	Up to 200000	55	2x 55	55	2x 55	2x 45	2x 90

Temperate Zone: where minimum average day temperature between October to March are not less than 18 deg C

Warm Zone: where minimum average day temperature between October to March are not less than 25 deg C

Cold Zone: where minimum average day temperature between October to March are not less than 10 deg C

HEAT PUMP

TECHNICAL SPECIFICATION

Ref. Code			HPD5.5	HPD9.5	HPD12.5	HPD17	HPD21	HPD26	HPD31
Operating temp. range		°C	-7~43						
Measuring conditions A 24°C W 27°C	Heating Capacity	KW	5.3	9.5	12.5	17	21	26	31
	Input Power	KW	1.1	1.73	2.36	2.83	3.5	4.56	5.64
	Running Current	A	4.86	7.85	10.72	12.88	5.83	7.6	9.39
		COP	5.0	5.5	5.3	6	6	5.7	5.5
Measuring conditions A 15°C W 27°C	Heating Capacity	KW	4.6	7.6	10	13.6	16.8	21	26.5
	Input Power	KW	1.04	1.65	2.27	2.83	3.36	4.57	5.76
	Running Current	A	4.72	7.51	10.33	12.88	5.6	7.61	9.6
		COP	4.4	4.6	4.4	4.8	5	4.6	4.6
Measuring conditions A 7°C W 27°C	Heating Capacity	KW	3.5	6.5	8.6	11.5	14.5	17	23.3
	Input Power	KW	0.88	1.71	2.39	3.03	3.63	4.47	6.13
	Running Current	A	4.01	7.78	10.86	13.76	6.04	7.46	10.22
		COP	3.0	3.8	3.6	3.8	4	3.8	3.8
Power Supply		V/PH/HZ	220-240V/1PH/50HZ			380-400V/3PH/50HZ			
Max Heating Input		KW	1.06	2.16	2.95	3.54	4.38	5.7	7.05
Max Heating Current		A	4.82	9.81	13.4	16.1	7.29	9.5	11.74
Max Cooling Input		KW	1.29	2.51	3.44	4.58	5.88	6.82	8.93
Max Cooling Current		A	5.87	11.4	15.65	20.83	9.8	11.37	14.89
Controller			LED/LCD						
Condenser			Titanium Coil						
Quantity of Compressor			1	1	1	1	1	1	1
Compressor			Rotary			scroll			
Quantity of Fan			1	1	1	1	2	2	2
Input Power of Fan		W	71	122	122	122	230	230x2	230x2
Fan Speed		RPM	850	830	830	830	850	850	850
Noise		dB(A) (1mtr)	50	54	55	56	56	57	58
Water Connection		inch	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
Water Flow Rate		m³/h	3	6	7	10	12	15	18
Water Pressure Drop		kpa	10	12	12	14	16	16	18
Net Dimension	L	mm	935	1010	1115	1115	1115	1115	1115
	W	mm	360	370	470	470	470	470	470
	H	mm	520	585	685	935	1250	1250	1250
Weight	Net Weight	kg	48	60	84	114	120	135	140
	Gross Weight	kg	52	67	96	132	138	149	152
Function			Heating & cooling with reversible defrosting						

Ref. Code	Cable size recommended	Stabilizer Capacity recommended
HPD5.5	2.5 Sq mm 3 Core	5 kva - 1 Phase
HPD9.5	2.5 Sq mm 3 Core	5 kva - 1 Phase
HPD12.5	2.5 Sq mm 3 Core	5 kva - 1 Phase
HPD17	4 Sq mm 5 Core	5 kva - 3 Phase
HPD21	4 Sq mm 5 Core	5 kva - 3 Phase
HPD26	4 Sq mm 5 Core	5 kva - 3 Phase
HPD31	4 Sq mm 5 Core	7 kva - 3 Phase

A - Air temperature outside

W - Water temperature in pool

Note: These Heat pumps are axial fan pumps designed for outdoor installation only.
Cooling capacity details can be provided on request.

HEAT PUMP

Commercial Heat Pump



- Patented high-performance titanium exchanger has more stable performance and greatly resist erosion of chlorine ion water, solid and durable.
- Exterior is powder coated mild steel corrosion resistant casing material
- By using high-heat exchanger technology, 65-80% of running cost can be saved compared with other heating machines. It consumes 1kw to produce about 5.5kw heating capacity, possessing high COP
- Remote and intelligent controller design with Celsius or Fahrenheit temperature display for options
- LCD or colorful LED controller for options
- Super power failure memory
- Flow switch built-in to avoid the low level water or devoid of water
- Advanced technology to mute noise from compressors and fans
- Heating and cooling with reversible defrosting
- Gauges installed to read pressure of refrigerant, which is an added advantage to monitor compressors
- Wi-Fi enabled system.
- Gas : R410A
- A provision is available for synchronizing the pool filter pump using a separate cable.

Note: 1. Heat pump sizing is influenced by ambient day temperature, humidity, presence of pool cover, night temperature, water features in pool & hours of operation of pool, pool location, wind movement.
 2. Performance of heatpump directly proportionate to the location of installation. For top mount fan heat pumps, space of 2 meters above machine to be provided.
 3. We suggest suitable stabilizer to ensure constant power supply for longer life.

Sizing chart to heat your pool to 28 deg C (Heat pump model no's given)

Pool Size		Temperate Zone		Warm Zone		Cold Zone	
		8-12 hrs / Day		8-12 hrs / Day		8-12 hrs / Day	
in Mtrs	in Ltrs	with Pool cover	without Pool Cover	with Pool cover	without Pool Cover	with Pool cover	without Pool Cover
3 x 7	Up to 30000	14	26	14	26	17	31
4 x 8	Up to 40000	17	31	14	26	26	2x26
5 x 10	Up to 60000	26	2x26	17	31	31	2x31
6 x 12	Up to 90000	31	2x31	26	2x26	2x26	2x 45
6 x 15	Up to 112000	2x26	2x 45	31	2x31	45	2x 45
6 x 18	Up to 130000	45	2x 45	2x26	2x 45	55	2x 55
6 x 21	Up to 160000	55	2x 55	45	2x 45	55	2x 55
6 x 25	Up to 200000	55	2x 55	55	2x 55	2x 45	2x 90

Temperate Zone: where minimum average day temperature between October to March are not less than 18 deg C

Warm Zone: where minimum average day temperature between October to March are not less than 25 deg C

Cold Zone: where minimum average day temperature between October to March are not less than 10 deg C

HEAT PUMP

TECHNICAL SPECIFICATION

Ref.Code			HPC35	HPC45	HPC55	HPC70	HPC90
Operating temp. range		°C	-7~43				
Measuring conditions A26 deg C W 27 deg C @ 80% RH	Heating capacity	KW	38	48	55	82	95
	Input power	KW	6.90	8.70	9.82	16.07	17.00
	Running Current	A	14.5*3	15.2*3	16.8*3	29.7*3	34.0*3
		COP	5.50	5.45	5.60	5.10	5.86
Measuring conditions A15 deg C W 27 deg C @ 80% RH	Heating capacity	KW	28.81	38	42	66.5	73.8
	Input power	KW	6.26	8.00	8.75	13.85	16.20
	Running Current	A	12.9*3	14.2*3	15.6*3	27.7*3	31.1*3
		COP	4.60	4.75	4.80	4.80	4.55
Measuring conditions A 7 deg C W 27 deg C @ 80% RH	Heating capacity	KW	20.65	28.12	30.82	44.40	60.00
	Input power	KW	5.90	7.60	8.40	12.00	15.80
	Running Current	A	12.0*3	13.3*3	14.9*3	24.5*3	29.1*3
		COP	3.50	3.70	3.67	3.70	3.80
Max Heating Input		KW	9.0	11.4	14.0	18.0	20.0
Max Heating Current		A	15.7*3	21.2*3	26.1*3	30.3*3	40.5*3
Power supply		V/PH/HZ	380-400V /3PH/50HZ				
Controller			LED/LCD				
Condenser			Titanium Coil				
Quantity of compressor			2		3		
Compressor			Scroll				
Noise level		Db (A) (1 meter)	60				62
Water connection		inch	2		2-1/2		2-1/2
Water flow rate		Cu mtr /hr (min -max)	13-19	14-21		25-30	30-36
Net dimension	L	mm	1450		1450	2037	
	W	mm	710		710	1037	
	H	mm	1060		1141	1360	
Weight	Net weight	kg	235	260	260	452	452
	Gross weight	kg	265	290	290	550	550
Function	Heating & cooling with reversible defrosting						

Ref. Code	Cable size recommended	Stabilizer Capacity recommended
HPC35	6 Sq mm 5 Core	12 kva - 3 Phase
HPC45	6 Sq mm 5 Core	15 kva - 3 Phase
HPC55	10 Sq mm 5 Core	15 kva - 3 Phase
HPC70	10 Sq mm 5 Core	30 kva - 3 Phase
HPC90	16 Sq mm 5 Core	35 kva - 3 Phase
HPC105	25 Sq mm 5 Core	40 kva - 3 Phase
HPC135	25 Sq mm 5 Core	40 kva - 3 Phase

Note: Please reach Aqvastar office for above details for higher models

A - Air temperature outside

W - Water temperature in pool

Note: These Heat pumps are axial fan pumps designed for outdoor installation only.

Cooling capacity details can be provided on request.

HEAT PUMP

TECHNICAL SPECIFICATION

Ref.Code			HPC105	HPC120	HPC135	HPC160	HPC210	HPC210P
Operating temp. range		°C	-7~43					
Measuring conditions A26 deg C W 27 deg C @ 80% RH	Heating capacity	KW	108	122	140	170	210	210
	Input power	KW	20.5	21.5	25.45	28.6	37.6	40.7
	Running Current	A	40*3	43*3	52*3	58*3	63.76*3	70*3
		COP	5.79	5.98	5.5	5.95	5.85	5.15
Measuring conditions A15 deg C W 27 deg C @ 80% RH	Heating capacity	KW	86.2	100	112.5	140	185	180
	Input power	KW	18.9	20.4	24.1	28.9	38.6	36
	Running Current	A	38*3	40*3	48.5*3	53*3	60*3	62*3
		COP	4.56	4.89	4.6	4.85	4.79	5.0
Measuring conditions A 7 deg C W 27 deg C @ 80% RH	Heating capacity	KW	70	85	88	120	135	142
	Input power	KW	17.94	18.95	23.2	26.6	32.1	29.5
	Running Current	A	35*3	38*3	44.5*3	48*3	57*3	59*3
		COP	3.9	3.8	3.8	4.5	4.1	4.8
Max Heating Input		KW	25	29.1	34.5	48.5	67.2	60.0
Max Heating Current		A	45.8*3	52.2*3	61.5*3	87*3	121.1*3	130*3
Power supply		V/PH/HZ	380-400V /3PH/50HZ					
Controller			LED/LCD					
Condenser			Titanium Coil					
Quantity of compressor			3	3	4	4	2	4
Compressor			Scroll					
Noise level		Db (A) (1 meter)	63	≤66	65	≤66	≤70	72
Water connection		inch	3	3	3	3	4	3
Water flow rate		Cu mtr /hr (min -max)	45-50	50-55	70-77	75-85	85	65-80
Net dimension	L	mm	2000	2000	2000	2150	2150	2100
	W	mm	1100	1100	1100	1078	1078	2100
	H	mm	2080	2080	2080	2258	2258	2000
Weight	Net weight	kg	540	540	540	900	1200	1850
	Gross weight	kg	587	587	587	940	1250	1900
Function			Heating & cooling with reversible defrosting					

A - Air temperature outside

W - Water temperature in pool

Note: These Heat pumps are axial fan pumps designed for outdoor installation only.

Cooling capacity details can be provided on request.

HEAT PUMP

Inverter Heat Pump

THE MOST STABLE DC INVERTER

With Aquark's own-developed stable DC Inverter technology and reliable components, Mr. Eco is possibly the most stable DC inverter pool heat pump.



Mr.Eco



POWERFUL

Provides sustainable powerful heating capacity before it reach the setpoint. It runs at maximum capacity as soon as it turns on, so set temperature can be reached more quickly.



COMFORTABLE

Faster response to variable heating load, with less temperature fluctuation and more quiet running, it will bring you a comfortable extended pool season.



MORE ENERGY SAVING

Once the pool temperature is getting close to the setpoint, the compressor starts to run at middle and lower speed to save more energy.

SOFT START AND WIDE VOLTAGE APPLICATION

With DC inverter compressor, Mr. Eco starts from 0 amps and increase steadily. There is no strike to the house electricity system.

ECO-FRIENDLY R32 REFRIGERANT

R32 is a new generation refrigerant for pool heat pump which is more efficient and has lower environmental impact.

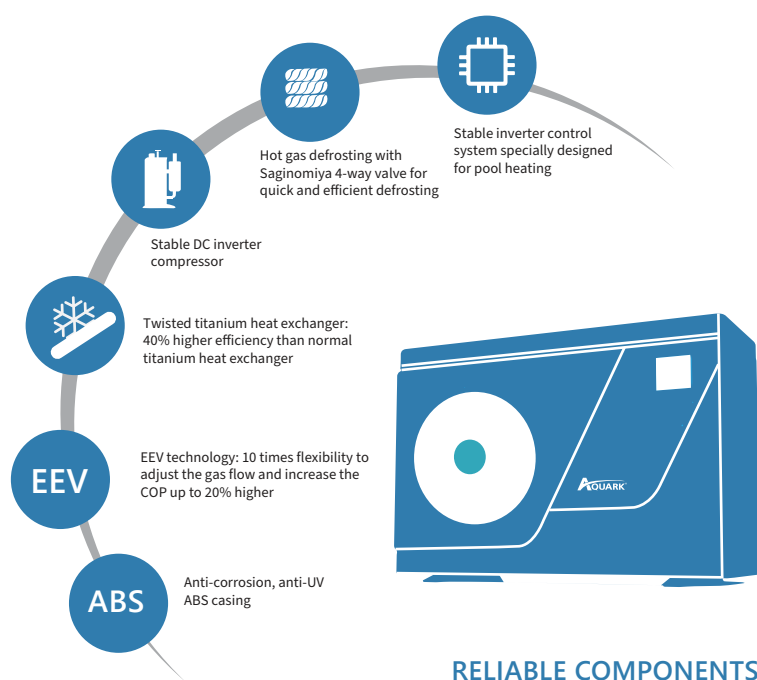
Comparing with R410A refrigerant, its global warming potential (GWP) is 32%, CO2 emission and Gas quota cost is only 25%.

SMART WI-FI APP (OPTIONAL)

With smart Wi-Fi app, you can see or control Mr. Eco anywhere anytime

HEAT PUMP

Inverter Heat Pump



MATURE DC INVERTER TECHNOLOGY

Mr. Eco adopts mature and stable DC Inverter technology developed by our professional engineers of more than 20 years experience in heat pump industry.

It varies the heating capacity by adjusting the frequency of compressor and speed of fan motor. Via optimal adjustment of inverter system to control the refrigerant (gas) flow rate, it consumes less current and power. Mr. Eco inverter has precise temperature control. When pool temperature is getting close to setpoint, it heats up the pools at lower speed to offer higher efficiency (C.O.P) and quieter operation.

Therefore, Mr. Eco DC inverter is more energy saving and quiet than traditional On/Off pool heat pump.

SAVING 45% MORE ENERGY THAN ON/OFF

COP up to 11 (Air27°C/Water27°C/Humid.80%)

Mr. Eco will adjust the heating capacity according to the pool temperature. When running at 20%-25% speed, it reaches the highest COP of 11. The average COP at 50% speed is 8.8 at Air 27°C/Water 27°C, 6.1 at Air 15°C/Water 26°C.

HEAT PUMP

Inverter Heat Pump



Model	ASE130	ASE160	ASE200	ASE240
PERFORMANCE CONDITION: Air 27°C/ Water 27°C/ Humid. 80%				
Heating capacity (kW)	13.0	16.0	20.2	24.2
COP Range	10.8~6.3	10.7~6.2	10.8~6.2	10.8~6.3
Average COP at 50% speed	9.2	9.1	9.1	9.2
PERFORMANCE CONDITION: Air 15°C/ Water 26°C/ Humid. 70%				
Heating capacity (kW)	9.0	11.0	14.0	16.0
COP Range	6.2~4.5	6.6~4.3	6.5~4.2	6.6~4.5
Average COP at 50% speed	6.0	6.1	6.1	6.2
TECHNICAL SPECIFICATIONS				
Advised pool volume (m ³) *	35~65	40~75	50~90	60~110
Operating air temperature (°C)	0°C ~ 43°C			
Casing	ABS Casing			
Heat exchanger	Twisted Titanium Heat Exchanger			
Power supply	230V/1 Ph/50Hz			
Rated input power (kW)	0.41~2.01	0.50~2.56	0.60~3.26	0.72~3.81
Input power at 50% speed (kW)	0.75	0.90	1.15	1.29
Rated input current (A)	1.76~8.70	2.17~11.12	2.61~14.16	3.13~16.56
Maximum input current (A)	12.5	17.0	19.5	20.0
Power cord (mm ²)	3×2.5	3×4	3×6	3×6
Sound level at 1m dB(A)	43.9~54.0	46.2~57.3	46.3~58.1	46.9~58.7
Sound level at 50% speed at 1m dB(A)	49.5	49.7	50.6	51.1
Sound level at 10m dB(A)	23.9~34	26.2~37.3	26.3~38.1	26.9~38.7
Advised water flux (m ³ /h)	4~6	6~8	7~10	10~12
Water connection (mm)	50			
Net weight (kg)	49	60	68	68
Net dimension LxWxH (mm)	903*349*654	991*349*654	991*349*754	991*420*757

Remarks: * Advised pool volume applies to a private pool with isothermal cover.

** The data above is only a reference, for specific data, please refer to the nameplate on the unit.

ELECTRIC HEATERS

Evolution-2 All Titanium



SUITABLE FOR:



Above-Ground Pools



Spas



Residential Pools

Our most popular electric pool heater worldwide, the Evolution 2, is available in analogue or multi-lingual digital display. This corrosion resistant, all titanium heater, provides high performance, safe, silent operation and complete reliability to effortlessly heat any residential pool or spa to its desired temperature.

FEATURES:

- 23 models available, ranging from 1-kW to 24-kW
- Easy installation, fully equipped and pre-wired
- Robust, durable construction and compact design
- Ultra-reliable flow switch for safe operation
- Fitted with temperature thermostat and overheating sensor
- Analogue control with 1.2°C differential or digital control with 0.5°C differential and selectable multi-lingual display
- Titanium flow tube and titanium heating element
- Vortex, long life, stay clean heating element technology
- 100% efficiency throughout the product life
- Sea and salt chlorinated water compatible
- Can be floor or vertically wall mounted
- Silent operation

ELECTRIC HEATERS

Evolution-2 All Titanium

SPECIFICATION

Power supply:	Single phase or 3-phase
Min. flow rate:	Up to 3-kW: 1m ³ /hr, 4-kW to 6-kW: 1.5m ³ /hr, 8.4-kW & greater: 4m ³ /hr
Max. flow rate:	17m ³ /h
Heating element:	Grade 1 titanium
Flow tube:	Grade 1 titanium
Control thermostat:	Analogue: 0>45°C (1.2°C differential). Digital: 0>45°C (0.5°C differential)
Safety thermal cut out:	60°C (manual reset)
Flow switch:	Gold tipped reed switch with titanium fulcrum pin
Contactors:	Siemens 3RT2023 or 3RT2027
Seals:	High temperature special formula EPDM ferrules. TPE end fitting gaskets
Water connections:	1 1/2" BSP female thread supplied with 1 1/2" /50mm stepped ABS unions for rigid pipe and 1 1/2" / 1 1/4" stepped hose tails for flexible pipe
Ingress protection rating:	IP44
Frequency:	50/60 Hz
Working pressure:	4 bar maximum
Mounting:	Floor or Wall mounting

TECHNICAL DATA

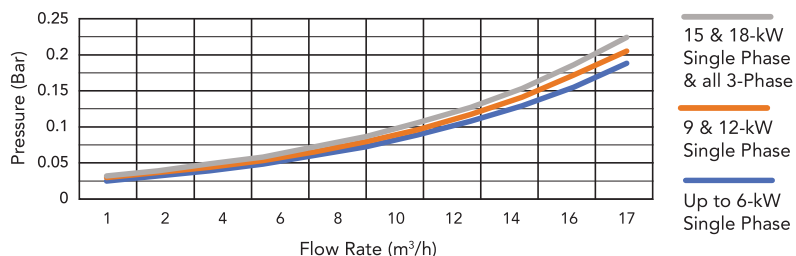
Model	Power Output	Load (amp)	Length (mm)	Net# weight(kg)	Gross# weight(kg)	Volume (m ³)	Product code	
							Analogue	Digital
220~240V 1-Phase	1-kW	4.5	462	3.9300	5.5300	0.0571	E2-1-1	E2D-1-1
	2-kW	8.5	462	3.9300	5.5300	0.0571	E2-1-2	E2D-1-2
	3-kW	13	462	3.9300	5.5300	0.0571	E2-1-3	E2D-1-3
	4.5-kW	20	462	3.9300	5.5300	0.0571	E2-1-4	E2D-1-4
	6-kW	26	462	3.9300	5.5300	0.0571	E2-1-6	E2D-1-6
	9-kW	40	462	4.2300	5.8300	0.0571	E2-1-9	E2D-1-9
	12-kW	53	462	4.2300	5.8300	0.0571	E2-1-12	E2D-1-12
	15-kW	66	462	4.5500	6.1500	0.0571	E2-1-15	E2D-1-15
	18-kW	79	462	4.5500	6.1500	0.0571	E2-1-18	E2D-1-18
230/400V Versatile	6-kW	26/8.5	592	4.7700	6.3700	0.0571	E2-V-6	E2D-V-6
	9-kW	40/13	592	4.7700	6.3700	0.0571	E2-V-9	E2D-V-9
	12-kW	53/18	592	4.7700	6.3700	0.0571	E2-V-12	E2D-V-12
400V 3-Phase	15-kW	22	592	4.5500	6.1500	0.0571	E2-3-15	E2D-3-15
	18-kW	26	592	4.5500	6.1500	0.0571	E2-3-18	E2D-3-18
	24-kW	34	592	4.5500	6.1500	0.0571	E2-3-24	E2D-3-24
220~240V 3-Phase	6-kW	15	592	4.5500	6.1500	0.0571	E2-3-6-D	E2D-3-6-D
	9-kW	23	592	4.5500	6.1500	0.0571	E2-3-9-D	E2D-3-9-D
	12-kW	30	592	4.5500	6.1500	0.0571	E2-3-12-D	E2D-3-12-D
	15-kW	38	592	4.5500	6.1500	0.0571	E2-3-15-D	E2D-3-15-D
	18-kW	46	592	4.5500	6.1500	0.0571	E2-3-18-D	E2D-3-18-D
120V 1-Phase	1-kW	8.5	462	3.9300	5.5300	0.0571	E2-1-1-120	E2D-1-1-120
	1.5-kW	12.5	462	3.9300	5.5300	0.0571	E2-1-1.5-120	
	2-kW	17	462	3.9300	5.5300	0.0571	E2-1-2-120	

Weights stated above are for analogue models only. #Please subtract 0.17kg for digital models.

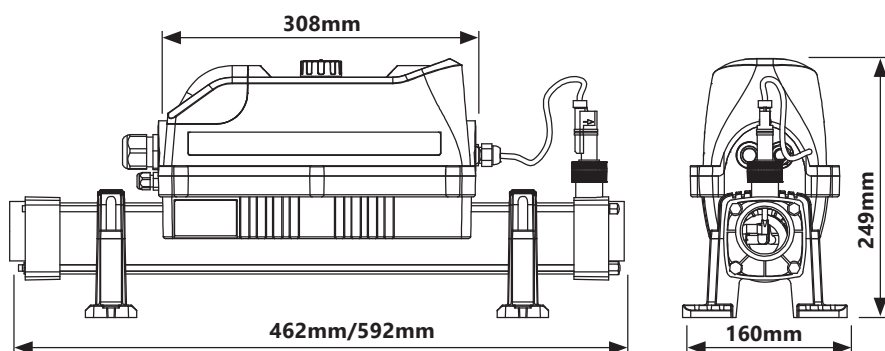
ELECTRIC HEATERS

Evolution-2 All Titanium

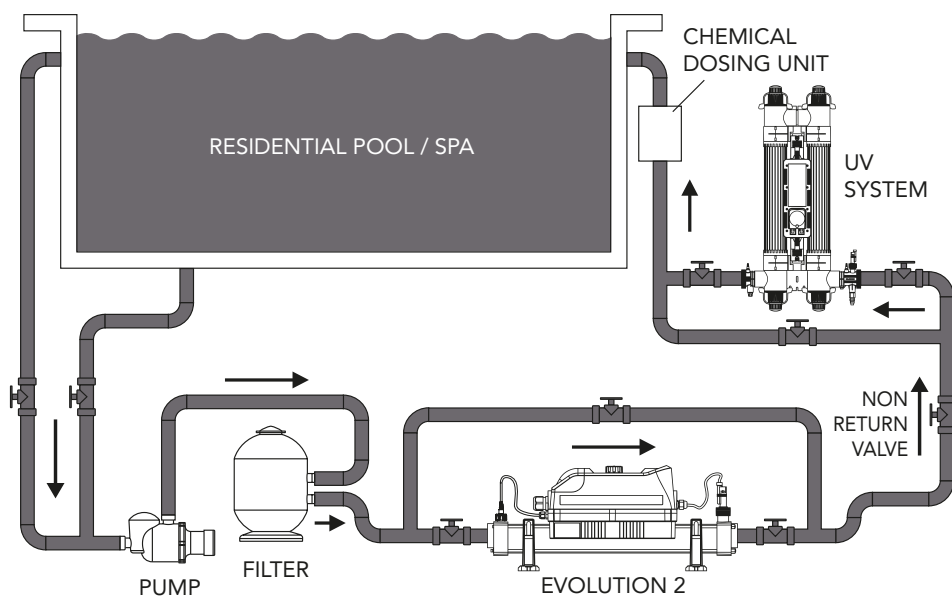
PRESSURE DROP



TECHNICAL DRAWINGS

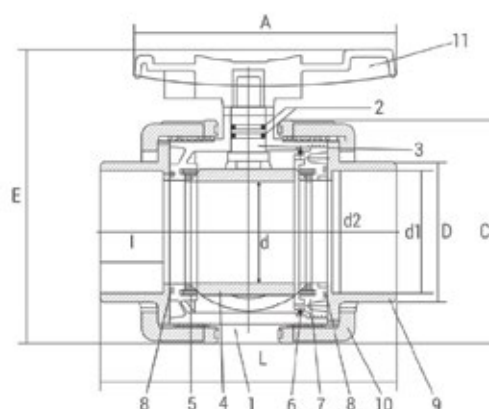


SYSTEM SETUP



FLOW CONTROL

Double Union Ball valve



- UPVC and ABS construction.
- 316 grade stainless steel components.
- Up to 10 BAR pressure rated.
- PVC-U body.
- Light body weight & compact double union structure.
- Handle can be used as tool to adjust threaded seal carrier.
- Ball seat in HDPE.
- O-Rings in EPDM.
- Teflon seals.
- Quick installation.
- Metric series.
- Female solvent socket.

NO.	PART	MATERIAL	QUANTITY
1	BODY	UPVC	1
2	STEM O-RING	EPDM	2
3	STEM	UPVC	1
4	BALL	UPVC	1
5	SEAT SEAL	TPE, TPV, TPO	2
6	CARRIER O-RING	EPDM	1
7	SEALCARRIER	UPVC	1
8	UNION O-RING	EPDM	2
9	END CONNECTOR	UPVC	2
10	UNION NUT	UPVC	2
11	HANDLE	PVC, ABS	1

Ref. Code	Product Details
ASDUS050B	Double union ball valve, socketed end, 20 mm 1/2" size, BS Std
ASDUS075B	Double union ball valve, socketed end, 25 mm 3/4" size, BS Std
ASDUS100B	Double union ball valve, socketed end, 32 mm 1" size, BS Std
ASDUS125B	Double union ball valve, socketed end, 40 mm 1 1/4" size, BS Std
ASDUS150B	Double union ball valve, socketed end, 50 mm 1 1/2" size, BS Std
ASDUS200B	Double union ball valve, socketed end, 63 mm 2" size, BS Std
ASDUS250B	Double union ball valve, socketed end, 75 mm 2 1/2" size, BS Std
ASDUS300B	Double union ball valve, socketed end, 90 mm 3" size, BS Std

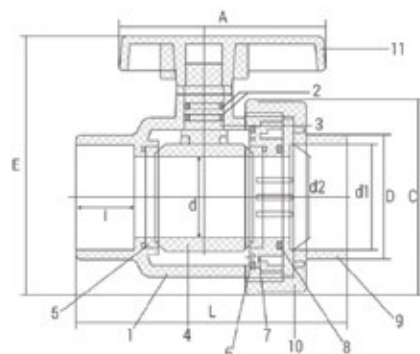
ASTM std valves are also available

DIMENSIONS (IN MM)

SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
I	16.10	18.50	21.00	26.50	31.30	38.00	41.00	51.50	61.00
d1	20.30	25.30	32.30	40.30	50.30	63.30	75.30	90.30	110.40
d2	20.00	25.00	32.00	40.00	50.00	63.00	75.00	90.00	110.00
d	15.00	20.00	25.00	30.00	38.00	48.00	59.00	72.00	96.00
C	56.00	60.00	69.00	80.00	95.00	116.00	139.00	170.00	210.00
E	79.00	90.00	103.00	122.00	139.00	166.00	190.00	235.00	277.00
A	67.00	78.00	87.00	102.00	120.00	146.00	178.00	210.00	250.00
L	83.00	94.00	107.00	122.00	146.00	171.00	210.00	246.00	283.00
D	28.80	35.00	43.00	52.00	62.00	75.50	88.50	106.00	131.00

FLOW CONTROL

Single Union Ball valve



- UPVC and ABS construction.
- 316 grade stainless steel components.
- Up to 10 BAR pressure rated.
- PVC-U body.
- Light body weight & single union structure.
- Handle can be used as tool to adjust threaded seal carrier.
- Female solvent socket.
- Metric series.
- Ball seat in HDPE.
- O-Rings in EPDM.
- Teflon seals.
- Quick installation.

NO.	PART	MATERIAL	QUANTITY
1	BODY	UPVC	1
2	STEM O-RING	EPDM	2
3	STEM	UPVC	1
4	BALL	UPVC	1
5	SEAT SEAL	TPE, TPV, TPO	2
6	CARRIER O-RING	EPDM	1
7	SEALCARRIER	UPVC	1
8	UNION O-RING	EPDM	1
9	END CONNECTOR	UPVC	1
10	UNION NUT	UPVC	1
11	HANDLE	PVC	1

Ref. Code	Product Details
ASSUS050B	Single union ball valve, socketed end, 20 mm 1/2" size, BS Std
ASSUS075B	Single union ball valve, socketed end, 25 mm 3/4" size, BS Std
ASSUS100B	Single union ball valve, socketed end, 32 mm 1" size, BS Std
ASSUS125B	Single union ball valve, socketed end, 40 mm 1 1/4" size, BS Std
ASSUS150B	Single union ball valve, socketed end, 50 mm 1 1/2" size, BS Std
ASSUS200B	Single union ball valve, socketed end, 63 mm 2" size, BS Std
ASSUS250B	Single union ball valve, socketed end, 75 mm 2 1/2" size, BS Std
ASSUS300B	Single union ball valve, socketed end, 90 mm 3" size, BS Std

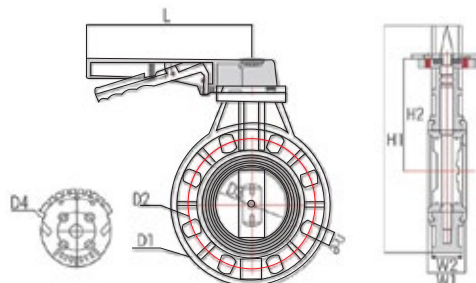
ASTM std valves are also available

DIMENSIONS (IN MM)

SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
I	16.10	18.50	21.00	26.50	31.30	38.00	41.00	51.50	61.00
d1	20.30	25.30	32.30	40.30	50.30	63.30	75.30	90.30	110.40
d2	20.00	25.00	32.00	40.00	50.00	63.00	75.00	90.00	110.00
d	15.00	20.00	25.00	30.00	38.00	48.00	59.00	72.00	96.00
C	56.00	60.00	69.00	80.00	95.00	116.00	139.00	170.00	210.00
E	79.00	90.00	103.00	122.00	139.00	166.00	192.00	235.00	277.00
A	63.00	72.00	75.00	85.00	95.00	110.00	128.00	139.00	160.00
L	76.00	87.00	101.00	114.00	137.00	163.00	198.00	230.00	274.00
D	28.80	35.00	43.00	52.00	62.00	75.50	88.50	106.00	131.00

FLOW CONTROL

Butterfly valve



- Disc available in different materials (PVC-U, CPVC, PP-H).
- Up to 10 BAR Pressure rated.
- Ideally suited for flow control using minimal piping space.
- 100% factory tested.
- Minimal pressure drop.
- Built in lockout feature to prevent undesired operations.
- Stainless steel shaft (AISI 630).
- Sleek PP handle.
- Low maintenance.
- Resistance to many inorganic chemicals.
- Excellent flow characteristics.
- Good mechanical strength.
- One piece PP - GF body.

PARTS LIST

1. Operator (Lever or Gear).
2. Bezel (Screw).
3. SSTL Stem.
4. Throttle Plate with Screws
5. Disc.
6. Body.
7. Liner

DIMENSIONS (IN MM)

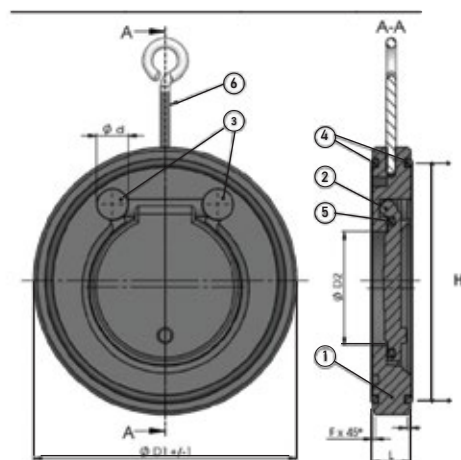
SIZE	2"	2-1/2"	3"	4"	6"	8"
D1	160	180	195	228	286	344
D2	100-122	138-143	138-158	150-184	238-242	292-300
D3	56	70	84	103	150	198
D4	100	100	100	100	140	140
L	190	190	240	240	310	310
W1	44	49	52	55	75	93
H1	224	247	284	320	400	475
H2	100	115	135	157	190	230
n-Øe	4-20	4-20	8-20	8-20	8-24	8-24



Ref. Code	Product Details
BFT200F	Butterfly valve, flanged end, 63 mm 2" size, BS Std
BFT250F	Butterfly valve, flanged end, 75 mm 2 1/2" size, BS Std
BFT300F	Butterfly valve, flanged end, 90 mm 3" size, BS Std
BFT400F	Butterfly valve, flanged end, 110 mm 4" size, BS Std
BFT600F	Butterfly valve, flanged end, 160 mm 6" size, BS Std
BFT800F	Butterfly valve, flanged end, 200 mm 8" size, BS Std

FLOW CONTROL

Wafer check valve



- Disc available in different materials (PVC-U, CPVC, PP-H).
- Up to 10 BAR Pressure rated.
- Ideally suited for flow control using minimal piping space.
- 100% factory tested.
- Minimal pressure drop.
- UPVC grey clip.
- Low maintenance.
- Resistance to many inorganic chemicals.
- Excellent flow characteristics.
- Good mechanical strength.
- One piece PP - GF body.

PARTS LIST

1. Body.
2. Disc.
3. Clip.
4. O-ring body.
5. O-ring disc.
6. Ring bolt.

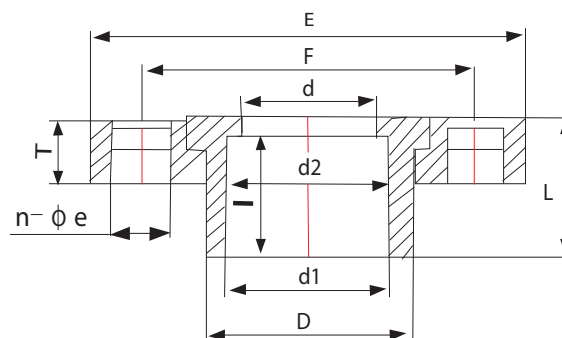
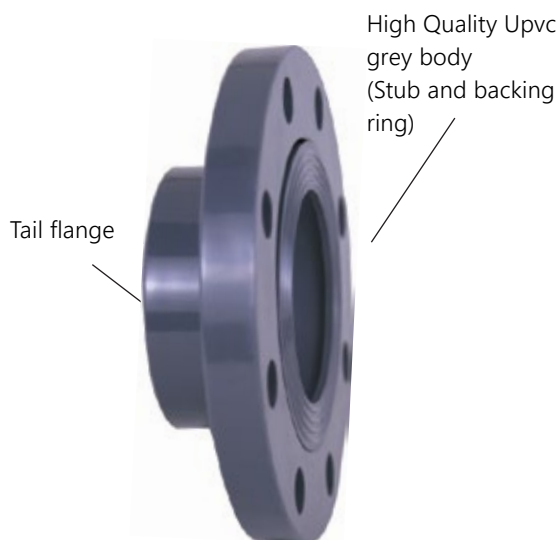
DIMENSIONS (IN MM)

Ref. Code	Product Details
FCV200	Wafer check valve flanged end 63mm 2" size, BS Std
FCV250	Wafer check valve flanged end 75mm 2 1/2" size, BS Std
FCV300	Wafer check valve flanged end 90mm 3" size, BS Std
FCV400	Wafer check valve flanged end 110mm 4" size, BS Std
FCV600	Wafer check valve flanged end 160mm 6" size, BS Std
FCV800	Wafer check valve flanged end 200mm 8" size, BS Std

SIZE	2"	2 1/2"	3"	4"	6"	8"
$\phi D1 \pm 1$	109	129	144	164	220	275
$\phi D2 \pm 1$	32	40	55	70	110	149
ϕd	12	12	14	20	20	20
$L \pm 1$	20	20	21	23	26	34
H	99	99	114	143	197	197

FLOW CONTROL

Flange Adaptor



DIMENSIONS (IN MM)

Ref. Code	Product Details
FLT200	Flange Adaptor (Stub & Backing Ring) 63mm 2" size, BS Std
FLT250	Flange Adaptor (Stub & Backing Ring) 75mm 2 1/2" size, BS Std
FLT300	Flange Adaptor (Stub & Backing Ring) 90mm 3" size, BS Std
FLT400	Flange Adaptor (Stub & Backing Ring) 110mm 4" size, BS Std
FLT600	Flange Adaptor (Stub & Backing Ring) 160mm 6" size, BS Std
FLT800	Flange Adaptor (Stub & Backing Ring) 200mm 8" size, BS Std

SIZE	2"	2 1/2"	3"	4"	6"	8"
D	72	87.5	104.5	131.5	191	246
F	125	145	160	180	241	298
E	165	185	200	220	280	343
n-øe	4-18	4-18	8-18	8-18	8-18	8-23
l	37	45	50	57	78	104
D	53	61	74	100	145	189
L	42.5	48	53	63	84	110
T	20	21	22	26.5	30	35

FLOW CONTROL



Ref. Code	Product Details
SUCV150B	Single union check valve, socketed end, 50 mm 1 1/2" size, BS Std
SUCV200B	Single union check valve, socketed end, 63 mm 2" size, BS Std

SINGLE UNION CHECK VALVE

- UPVC and ABS construction.
- 316 grade stainless steel components.
- Up to 10 BAR pressure rated.
- PVC-U body.
- Light body weight & single union structure.
- Female solvent socket.
- Metric series.
- O-Rings in EPDM.
- Teflon seals.
- Quick installation.



Ref. Code	Product Details
ASDCV100B	Double union check valve, socketed end, 32 mm 1" size, BS Std
ASDCV150B	Double union check valve, socketed end, 50 mm 1 1/2" size, BS Std
ASDCV200B	Double union check valve, socketed end, 63 mm 2" size, BS Std
ASDCV250B	Double union check valve, socketed end, 75 mm 2 1/2" size, BS Std
ASDCV300B	Double union check valve, socketed end, 90 mm 3" size, BS Std

DOUBLE UNION CHECK VALVE

- UPVC and ABS construction.
- 316 grade stainless steel components.
- Up to 10 BAR pressure rated.
- PVC-U body.
- Light body weight & compact double union structure.
- Ball seat in HDPE.
- O-Rings in EPDM.
- Teflon seals.
- Quick installation.
- Metric series.
- Female solvent socket.

NO.	PART	MATERIAL	QUANTITY
1	BODY	UPVC	1
2	SPRING	SS	1
3	SEAT SEAL	TPE, TPV, TPO	2
4	CARRIER O-RING	EPDM	1
5	SEALCARRIER	UPVC	1
6	UNION O-RING	EPDM	1
7	END CONNECTOR	UPVC	1
8	UNION NUT	UPVC	1

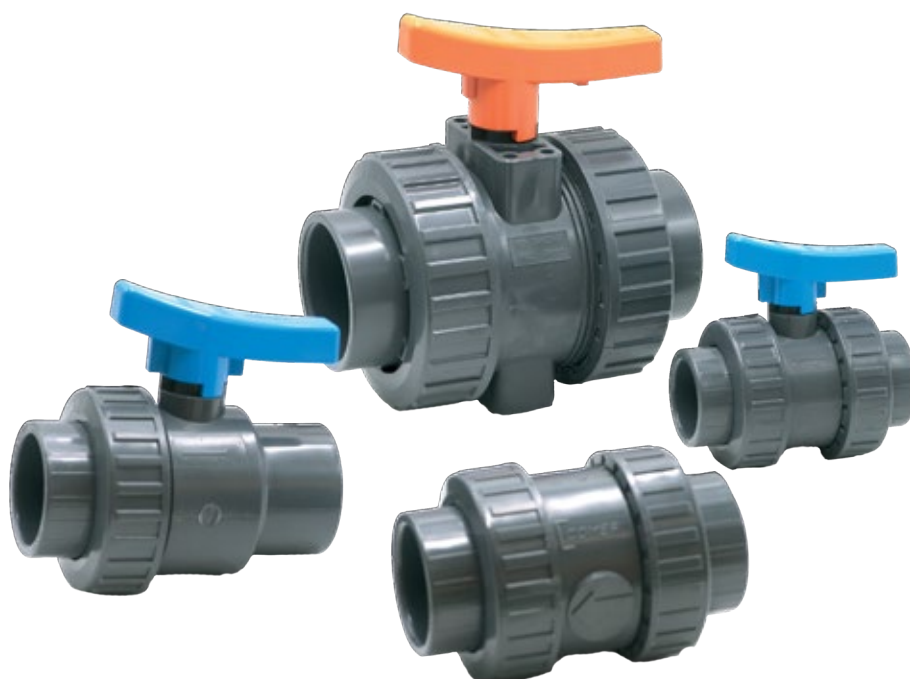
ASTM std valves are also available

NO.	PART	MATERIAL	QUANTITY
1	BODY	UPVC	1
2	SPRING	SS	1
3	SEAT SEAL	TPE, TPV, TPO	2
4	CARRIER O-RING	EPDM	1
5	SEALCARRIER	UPVC	1
6	UNION O-RING	EPDM	2
7	END CONNECTOR	UPVC	2
8	UNION NUT	UPVC	2

ASTM std valves are also available



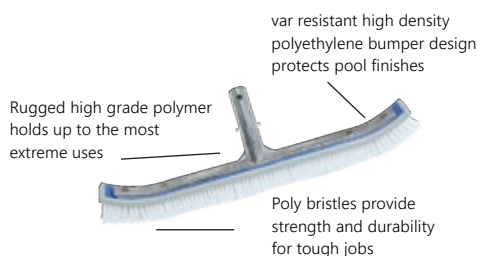
Italian passion



High quality PVC British Standard valves
made in Italy

www.comeritaly.com

MAINTENANCE EQUIPMENTS



Ref. Code	Product Details
ASWBH	18" (450mm) Heavy duty wall brush with poly bristle, Dark blue colour

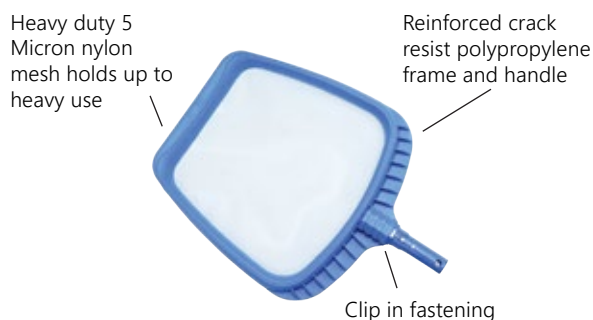
Ref. Code	Product Details
ASABH10	10" (250mm) Algae brush with SS bristles, Dark blue in colour
ASABH5	5" (125mm) Algae brush with SS bristles, Dark blue in colour
ASABH18	18" (450mm) Algae brush with SS bristles, Dark blue in colour

OVERSIZED POOL BRUSH

- 450mm long heavy duty, long lasting poly bristles
- Rugged high grade polymer handle
- Effortlessly cleans concrete, fiberglass and vinyl pool walls and cover larger areas
- Var resistant bumper design prevents scratches on pool or liner walls
- Works with any standard 1 1/4" (32mm) diameter pole

ALGAE BRUSH

- Heavy duty stainless steel bristles provide scouring might to eliminate algae growth on the bottom of concrete pools eliminating unnecessary chemical activities
- Durable polymer with clip in fastening
- Works with any standard 1 1/4" (32mm) diameter pole



Ref. Code	Product Details
ASFNH	Heavy duty flat net with 5 Micron mesh, Dark blue color

CONTOURED LEAF SKIMMER

- Lightweight contoured design effortlessly skims leaves and debris floating on water's surface
- Reinforced corrosion resist plastic frame prevents scratches on pool walls
- Durable pocket screening made of close netting (5 microns)
- Works with any standard 1 1/4" (32mm) diameter pole

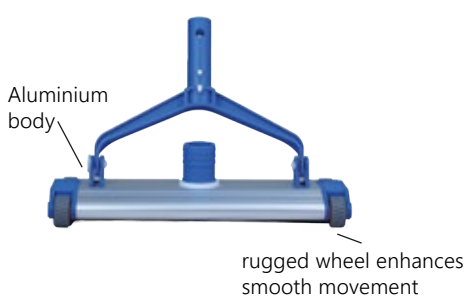
MAINTENANCE EQUIPMENTS



Ref. Code	Product Details
ASDNH	15" deep net with 5 micron mesh, Dark blue color

CONTOURED LEAF RAKE

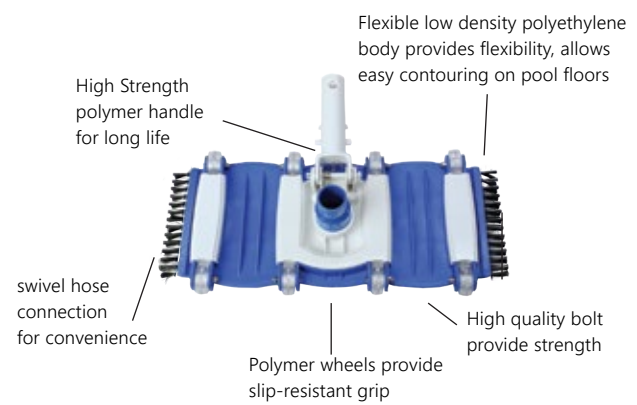
- Lightweight contoured design effortlessly skims leaves and debris from the bottom of the pool
- Reinforced corrosion resist plastic frame prevents scratches on pool walls
- Durable pocket screening made of close netting (5 microns)
- Works with any standard 1 1/4" (32mm) diameter pole



Ref. Code	Product Details
ASALVH350	350mm Long anodised aluminium vacuum head with swivel hose connection, Silver colour
ASALVH450	450mm Long anodised aluminium vacuum head with swivel hose connection, Silver colour

ALUMINIUM VACUUM HEAD

- Heavy duty aluminium body for semi commercial applications
- High quality rugged wheels make the body movement smoothly
- Works with any standard 1 1/4" (32m) diameter pole

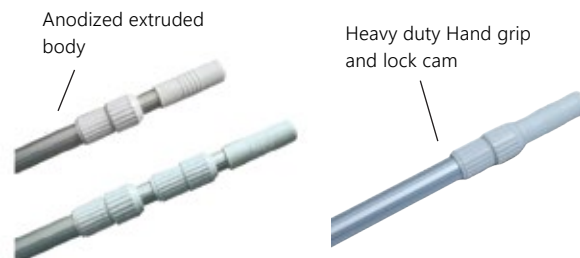
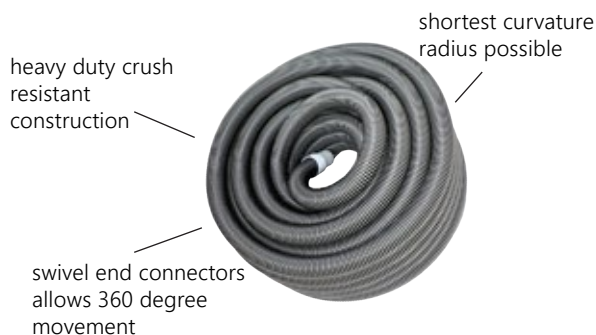


Ref. Code	Product Details
ASFVH350P	350mm Long flexible vacuum head with swivel hose connection, clip in fastening, Dark blue color

FLEX VACUUM HEAD

- Designed for hard-surface pools, weighted flexible body resists floating
- High strength polymer quick change handle fits standard 1- 1/4" (32mm) diameter pole and swivel vacuum connector fits 1-1/2" (38mm) diameter hose

MAINTENANCE EQUIPMENTS



Ref. Code	Product Details	Ref. Code	Product Details
ASHS06	6 Mtr hose pipe	ASHS18	18 Mtr hose pipe
ASHS09	9 Mtr hose pipe	ASHS20	20 Mtr hose pipe
ASHS12	12 Mtr hose pipe	ASHS25	25 Mtr hose pipe
ASHS15	15 Mtr hose pipe	ASHS30	30 Mtr hose pipe

Ref. Code	Product Details
AS412	4 - 12' Pole corrugated, Silver color
AS816	8 - 16' Pole corrugated, Silver color
AS1030	9 - 27' Pole corrugated, Silver color

BICOLOR POOL HOSE

- Transparent hose piping with a spiral reinforcement in blue, Grey black highly flexible, manufactured from EVA (Ethyl Vinyl Acetate)
- Hoses manufactured with corrugated structure and rounded profile for greater floatability during service work
- Smooth spiral inner wall design for superior water flow
- Swivel cuff provides flexibility and kink - free operation
- UV and Chemical resistant
- H₂O Suction vacuum 8m.

TELESCOPIC POLE

- Features 1 mm thick heavy duty weight anodized extruded aluminium corrugated/ ribbed style poles.
- Durable fast lock telescopic pole with smooth grips and external locking cams.
- Length adjusts easily.
- Pole features standard 1 1/4" (32mm) diameter.
- To fit any standard international style rake, skimmer, brush & vacuum head.



POOL TESTING ACCESSORIES

Ref. Code	Product Details
AS - TK	3 way test kit (PH /CL/ BR)
AS - TKS	Test kit spare
AS - TS	3 way test strips (50 strips)

GIANT SERIES HIGH EFFICIENCY

The evolution of a classic: innovative technology
with the best performance in the market



- Patented technology: logarithmic volute shaped body with one-piece helicoidal impeller.
- Suitable for all kinds of water.
- Superior resistance to corrosion and cavitation
- High hydraulic efficiency.
- Lower Maintenance Costs.



GIANT



GREAT GIANT

2900rpm 50Hz · Available also at 60Hz

From 4HP up to 12.5HP

Flow rate: up to 180m³/h

Plastic or bronze impeller

Best solution for aquariums (plastic series)

1450rpm 50Hz · Available also 60Hz

From 4HP up to 15HP

Flow rate: up to 260m³/h

Bronze impeller

Complement your pool pumps with our GIANT PSH pre-filters series

RESIDENTIAL SERIES



MINI 0.33-1.5 HP

MAXI 1.5-4 HP



SMALL GIANT



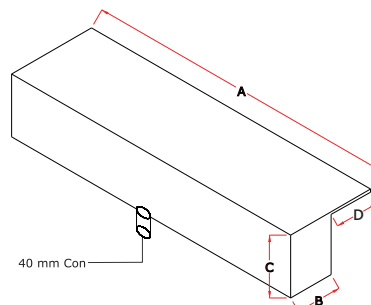
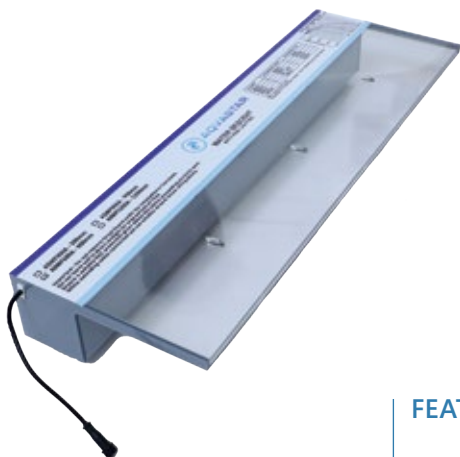
GIANT



GREAT GIANT

PVC/ ACRYLIC WATERFALL

PVC/Acrylic Waterfall



Perhaps our best selling water feature types because of their sheer visual impact and flexibility. Typically a hidden feature, our waterfalls and their variations come in virtually any length by adding each other.

FEATURES:

- Classic look and design
- Standard sheeting fall looks amazing
- 300,600,900,1200,1500mm wide, 200mm extended lip
- Material - PVC/ACRYLIC
- Maximum installation height as recommended below
- Extra 40mm FTA and solvent connection with the unit

Water fall comes with removable /replaceable LED strip light. It comes with a remote control capable to control lighting type & pattern.

- It is possible to change light colour between even fixed colours
- Seven fixed colours blinking
- Different speed of colour changing
- Brightness adjustment.

The colours available are, White, Red, Light green, Blue / purple, Yellow, Dark green & Pink. Once you set desired effect the system comes with same colour and effect, Whenever you switch on/off till you change the programme.

WIRING & DRIVER

It comes with 5 mtr standard wiring with LED driver AC adaptor. For more length you may please cut cable appropriately & extend cable & connect with same adaptors. These adaptors are not water proof so please protect accordingly.

TECHNICAL SPECIFICATION

Effect	Ref Code	PVC Threaded / Solvent Connection	Flow details in LPM	MAX Recommended height in mm	Dimensions in mm			
					A	B	C	D
	ASWF300A	40mm	50	300	300	70	80	130
	ASWF600A	40mm	100	750	600	70	80	130
	ASWF900A	2x40mm	150	1000	900	70	80	130
	ASWF1200A	2x40mm	200	1200	1200	70	80	130

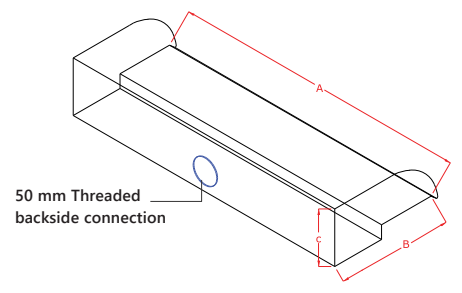
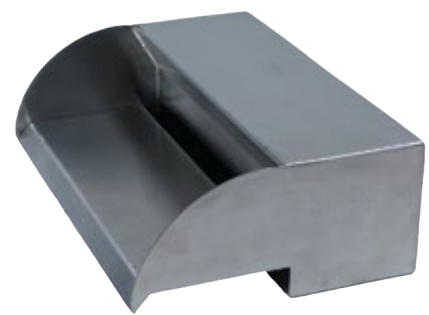
Note:

1. Please change the battery if system is not allowing you to change the desired pattern.
2. You shall install more than recommended height but please expect an unclear sheet fall in the bottom portion.

SS WATERFALL



Front View



SS WATERFALL

More bathing pleasure with a water curtain or a water cannon made of acid proof stainless steel (316) with polished surface comes with internal diverter to ensure smooth water flow without turbulence.

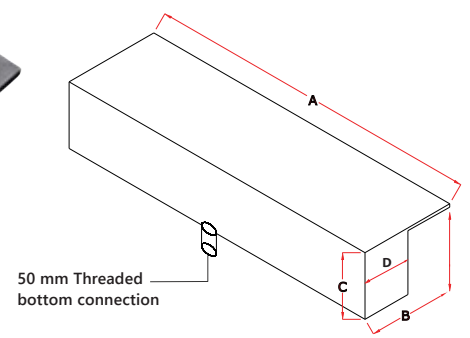
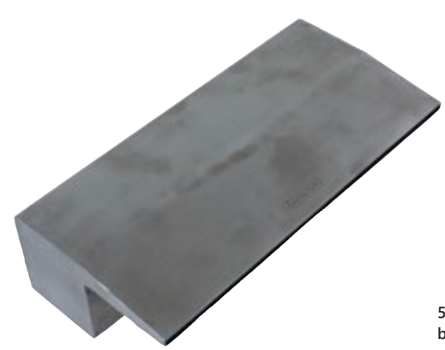
Ref Code	Threaded Connection	Flow details in LPM	MAX Recommended height in mm	Dimensions in mm		
				A	B	C
ASWF300SS	50mm	50	300	300	195	100
ASWF600SS	50mm	100	750	600	195	100
ASWF900SS	2x50mm	150	1000	900	195	100
ASWF1200SS	2x50mm	200	1200	1200	195	100

Note: Any other sizes available on request.

SS WATERFALL LIP TYPE



Front View



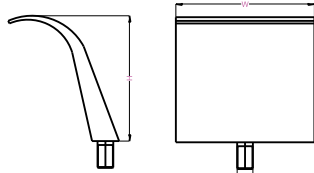
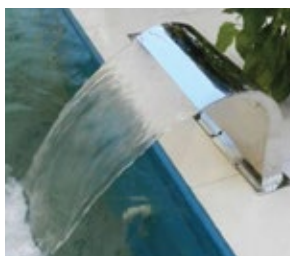
Ref Code	Threaded Connection	Flow details in LPM	MAX Recommended height in mm	Dimensions in mm			
				A	B	C	D
ASWF300SL	50mm	50	300	300	140	80	70
ASWF600SL	50mm	100	750	600	140	80	70
ASWF900SL	2x50mm	150	1000	900	140	80	70
ASWF1200SL	2x50mm	200	1200	1200	140	80	70

Note:

1. Above waterfall can also be supplied with lights on request (Shape similar to acrylic water fall).
2. Any other sizes can also be arranged on request.

SS WATER CURTAIN

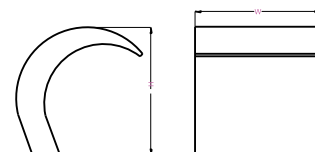
SS Water Cannon



WATER CANNON - MINI 300

ASCANMINI300

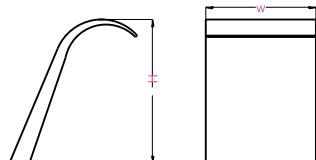
- Flow - 7 m³/hr
- Height - 300mm
- Width - 300mm
- Inlet connection - 1" (50mm)



WATER CANNON - MINI 500

ASCANMINI500

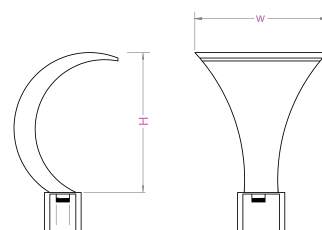
- Flow - 16 m³/hr
- Height - 500mm
- Width - 500mm
- Inlet connection - 2" (63mm)



WATER CANNON - MAXI 500

ASCANMAXI500

- Flow - 16 m³/hr
- Height - 500mm
- Width - 500mm
- Inlet connection - 2" (63mm)



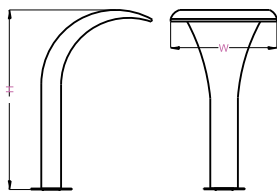
COBRA WATER FALL - MINI 500

ASCOBMINI500

- Flow - 16 m³/hr
- Height - 500mm
- Width - 500mm
- Inlet connection - 2" (63mm)

SS WATER CURTAIN

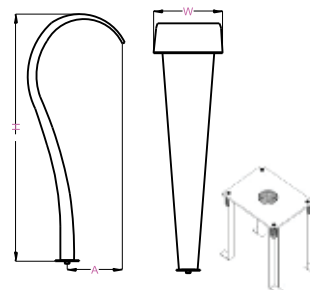
SS Water Cannon



COBRA WATER FALL - MAXI 500

ASCOBMAXI500

- Flow - 16 m³/hr
- Height - 500mm
- Width - 500mm
- Inlet connection - 2" (63mm)



COBRA WATER FALL - ULTRA 400

ASCOBUL400

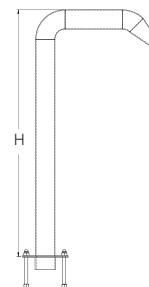
- Flow - 11 m³/hr
- Height - 1000mm
- Width - 400mm
- Inlet connection - 2" (63mm)



WATER SPOUT (38/42 mm)

ASSPT100/101

- Flow - 7 m³/hr
- Height - 757mm
- Inlet connection - 1.5"
- Dia - 38/42 mm



WATER SPOUT (63 mm)

ASSPT200

- Flow - 15 m³/hr
- Height - 810mm
- Inlet connection - 2"
- Dia - 63 mm

Note :

All SS water cannon comes with installation kit as standard. This makes installation very easy at site
All SS Water Cannon are made of SS316

WATER ATTRACTIONS

JET SWIM COUNTERFLOW

With a motor power of 2.2Kw (motion) or 4Kw (athlete) and with jet streams of 46 m³/h (motion) or 68 m³/h (athlete), you can easily exercise your strength and physical fitness. Jet Swim Motion is started by pressing a pushbutton on the front. The air mixture in the jet streams are adjusted seamlessly in order to suit your personal needs. In its modern minimalistic design, a discreet handle is hidden and integrated in the front. Jet Swim Motion is available in both Classic and Marine design and meets the requirements for the pool standard EN 16582



TECHNICAL SPECIFICATION

Motor Power	2.2 Kw	Pump capacity	46 m ³ /h
Motor Voltage	3~230/400 V	Pipe connection	2"
Ampere 230/400	8,0/4,6 A	Materials	PC/stainless steel

JET SWIM MOTION

FEATURES

- New flow technology with two oval nozzles
- Adjustable air mixture
- Modern and minimalistic design
- Integrated handle
- Pneumatic starting button
- Meets the requirements for pool standards
- High-class motor



TECHNICAL SPECIFICATION

Motor Power	4 Kw	Pump capacity	68 m ³ /h
Motor Voltage	3~230/400 V	Pipe connection	2 1/2"
Ampere 230/400	13,9/8,0 A	Materials	PC/stainless steel

JET SWIM ATHLETE

FEATURES

- Stainless steel front AISI 316L / 14A
- New flow technology with two oval nozzles
- Adjustable water flow
- Modern and minimalistic design
- Pneumatic start button
- Meets the requirements of pool standard
- EN 16713
- Bronze pump with highly efficient pump (class IE3)



TECHNICAL SPECIFICATION

Type	2000	Pump capacity	71 m ³ /h
Motor	4.0 kW	Pipe connection	2 1/2"
Voltage, 50Hz	230/400 V	Materials	Bronze/stainless steel
Power, 230/400	13.9/8.0 A		

JET SWIM 2000

FEATURES

- Bronze and acid proof stainless steel
- Pump capacity at 71 m³/h
- Adjustable water flow
- Adjustable jet streams
- Adjustable setting of the air mixture
- Polished stainless steel front
- High-class motor
- Meets requirements of pool standard EN13451, EN16582, EN16713

WATER ATTRACTIONS

JET SWIM COUNTERFLOW

OTHER COUNTER-CURRENT UNIT



JET SWIM



REVOLUTIONARY NATURAL SWIMMING SENSATION!

Jet Swim Motion is made of acid-proof stainless steel AISI 316L and has a completely new flow technique with two oval nozzles, of which the lower is directed downward for a more even distribution of the streams. This provides a much more natural swimming technique compared to most counter-current units found on the market.

*PAHLEN A - Consists of 1302100 + 1312130

For complete Jet Swim Athlete consists of a Jet unit, assembly kit, pump and control box **(Pumps and valves are not included!)**

For options to fiberglass/PP-plastic pools contact AQVASTAR for more information

*PAHLEN M - Consists of 33030 + 1302010

A complete Jet Swim Motion consists of jet unit, assembly kit, pump and control box.

**Mounting kit suitable for mono-block pools made in fibreglass, PP or stainless steel with zero degree wall angle and thickness 6-20mm

*For floating pool cover.

**For fiberglass/PP pool a complementary set of screws is needed.

Item no.	Jet Swim Athlete*
1302100	Jet Swim Athlete
1302130	Assembly Kit Jet Swim Athlete concrete
1302185	Jet Swim Athlete Pump 50Hz
1302185HZ	Jet Swim Athlete Pump 60Hz
1302090	Jet Swim 2000 Athlete Control box 400/3~
33045	Jet Swim Athlete steel / liner complete unit
33046	Jet Swim Athlete concrete / liner complete unit

Jet Swim Motion	
Item no.	Type
33041	Complete unit - Classic
33042	Complete unit - Classic
33043	Complete unit - Marine
33044	Complete unit - Marine
1301300	Motion Classic unit
1301305	Motion Marine unit
1301310	Assembly kit
1301320	Assembly kit
1301285	Jet Swim Pump 2.2kw 50Hz
1301390	Control box 400/3~
1301315	**Mounting kit fibreglass

Jet Swim 2000		Type of pool
Item no.	Type	Concrete pool without liner
33029	Complete unit - concrete	
33028	Complete unit - liner	
1302000	Jet Swim unit	x
1302005*	Jet Swim unit for pool cover	x
1302010	Assembly kit	
1302020	Assembly kit	x
1302015**	Screw kit	
1302080	Pump	x
1302090	Control box 400/3~	x

Stunning water effects right at your fingertips!

AQVASTAR is the leading product supplier of Fountain Nozzles,
waterfalls and water feature effects.



FOUNTAIN NOZZLES



FINGER JET NOZZLE

- Creates a fan shaped spray of solid streams of water.
- Water level independent.
- Moderate level of noise level.
- Stainless steel finish, female threaded connection.

Ref. Code	Product Description
ASFJN25SS	Finger Jet Nozzle with 9 Jets 1" in SS
ASFJN40SS	Finger Jet Nozzle with 9 Jets 1 1/2" in SS

TECHNICAL SPECIFICATION

MODEL	ASFJN25SS		ASFJN40SS	
CONNECTION				
IN INCH	1"		1 1/2"	
ORIFICE IN mm	2		5	
FLOW DETAILS	Flow (LPM)	Head (Mtr)	Flow (LPM)	Head (Mtr)
Spray Height in Meter				
1	25.8	0.9	126.2	0.7
1.5	31.8	1.3	158.7	1
2	36.1	1.6	183.7	1.3
2.5			212.5	1.8
3			227.5	2.1
3.5			250	2.4
4			281.2	2.9

Noise: ●●●●● Visibility: ●●●●● Splash/Mist: ●●●●● Wind Stability: ●●●●● Aeration effect: ●●●●●

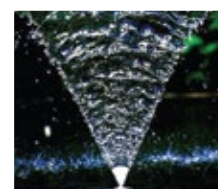
FAN JET NOZZLE

- Creates a fan shaped spray like sheet of water.
- Water level independent.
- Moderate level of noise level.
- Stainless steel finish, male threaded connection.

Ref. Code	Product Description
ASFAN25SS	1" Fan Jet Nozzle in SS
ASFAN40SS	1 1/2" Fan Jet Nozzle in SS

TECHNICAL SPECIFICATION

MODEL	ASFAN25SS		ASFAN40SS	
CONNECTION				
IN INCH	1"		1 1/2"	
ORIFICE IN mm	4		6	
FLOW DETAILS	Flow (LPM)	Head (Mtr)	Flow (LPM)	Head (Mtr)
Spray Height in Meter				
0.5	50.7	0.4	89.1	0.5
1	80.3	1	133.1	0.8
1.5	104.5	1.6	171.7	1.2
2	112.5	2.2	202.8	1.6
2.5	137.2	2.8	232.8	2
3	154.1	3.4	258.8	2.5
3.5			287	2.9
4			460.3	3.3



Noise: ●●●●● Visibility: ●●●●● Splash/Mist: ●●●●● Wind Stability: ●●●●● Aeration effect: ●●●●●

FOUNTAIN NOZZLES

CLEAR STREAM NOZZLE

- Creates a fine solid stream of water with angle adjustability smaller orifice nozzles are more subject to wind & clogging.
- Water level independent.
- Very Low noise level.
- Adjustable by 15° off center axis
- Stainless steel finish, comes with adjustable ball joint up to 1 1/2" Ø



Ref. Code	Product Description
ASCSN12SS	1/2" Clear Stream Nozzle in SS
ASCSN20SS	3/4" Clear Stream Nozzle in SS
ASCSN25SS	1" Clear Stream Nozzle in SS
ASCSN40SS	1 1/2" Clear Stream Nozzle in SS
ASCSN50SS	2" Clear Stream Nozzle in SS

TECHNICAL SPECIFICATION

MODEL	ASCSN6SS		ASCSN10SS		ASCSN12SS		ASCSN25SS		ASCSN40SS	
CONNECTION IN INCH	1/4"		3/8"		1/2"		1"		1 1/2"	
ORIFICE IN mm	4		6		10		14		20	
FLOW DETAILS	Flow (LPM)	Head (Mtr)	Flow (LPM)	Head (Mtr)	Flow (LPM)	Head (Mtr)	Flow (LPM)	Head (Mtr)	Flow (LPM)	Head (Mtr)
Spray Height in Meter										
0.5	2.8	0.6	6.7	0.7	19.3	0.8	39.7	0.7	73.7	0.7
0.75	3.5	1	8.2	1	23.5	1.2	47.7	1		
1	4.1	1.2	9.3	1.3	27.2	1.4	54.2	1.3	102.5	1.1
1.5							66.5	1.9	130	1.9
2							75.8	2.4	148.7	2.4
2.5							86.6	3.1	168.7	3.1
3							94	3.7	183.7	3.6
3.5									198.7	4.2
4									212.5	4.8

Noise: ●●●●● Visibility: ●●●●● Splash/Mist: ●●●●● Wind Stability: ●●●●● Aeration effect: ●●●●●

FOAM NOZZLE – OA

- Creates foamy stream of water.
- Water level independent.
- A column of frothy aerated water recommended for small & medium display.
- Plastic body with SS cover, male threaded connection



Ref. Code	Product Description
ASFN25	Foam Nozzle 1" OA design

TECHNICAL SPECIFICATION

MODEL	ASFN25	
CONNECTION IN INCH	1"	
ORIFICE IN mm	32	
FLOW DETAILS	Flow (LPM)	Head (Mtr)
Spray Height in Meter		
0.25	47	1.00
0.50	55	1.30
0.75	71	2.10
1.00	80	2.70
1.25	89	3.30
1.50	97	3.90
1.75	104	4.60
2.00	111	5.20
2.50	123	6.40

Noise: ●●●●● Visibility: ●●●●● Splash/Mist: ●●●●● Wind Resistance: ●●●●● Aeration effect: ●●●●●

FOUNTAIN NOZZLES



Ref. Code	Product Description
ASFN40	Foam Nozzle 1 1/2" OA Design
ASFN50	Foam Nozzle 2" OA Design

FOAM NOZZLE

- Foam Nozzles generate a thick, wind resistant display that uses little water.
- Foamy white water offers a strong contrast to surroundings while enriching oxygen content.
- These Nozzles are water level independent.

TECHNICAL SPECIFICATION

MODEL	ASFN40		ASFN50	
CONNECTION				
IN INCH	1 1/2"		2"	
ORIFICE IN mm	75		75	
FLOW DETAILS	Flow (LPM)	Head (Mtr)	Flow (LPM)	Head (Mtr)
Stream Height in Meter				
0.3	125	3.7		
0.6	150	5.0		
1	175	6.3	327	6.7
1.5	235	11	432	11.3
2	250	12.7	462	13
2.5	282	16	516	16.3

ROTATING NOZZLE

- This rotating nozzle offers an impressive dancing display with low water use.
- Rotation is by the angled smooth bore jets rotating around the centre jet or jets, height & speed can be adjusted by arm arc or valve in line The Peacock includes a Finger Jet
- Water level independent.

Ref. Code	Product Description
ASRN25	Rotating Nozzle 1"



TECHNICAL SPECIFICATION

MODEL	ASRN12		ASRN25		ASRN40		ASRN50		ASRN75		ASRN100	
CONNECTION												
IN INCH	1/2"		1"		1 1/2"		2"		3"		4"	
FLOW DETAILS	Flow (LPM)	Head (Mtr)	Flow (LPM)	Head (Mtr)	Flow (LPM)	Head (Mtr)	Flow (LPM)	Head (Mtr)	Flow (LPM)	Head (Mtr)	Flow (LPM)	Head (Mtr)
Spray Height in Meter												
1.0	10.6	1.4	54	1.6	99	1.6						
1.5	14.3	2.3	67	2.3	149	2.3	358	2.2				
2.0	16.8	3.0	79	3.2	182	2.8	423	2.8	495	2.9	593	3.2
3.0	21.5	4.8	95	4.5	221	4.9	528	4.9	603	4.9	830	5.3
4.0			110	6.0	261	6.8	631	6.9	709	6.4	906	6.8
5.0			125	7.1	288	7.8	702	7.7	785	7.7	972	8.3
6.0					334	8.9	778	9.3	855	9.1	1025	10.1
7.0							829	10.6	921	4.8	1136	12.2
8.0							901	12.8	985	13.9	1238	14.3
10.0									1085	18.3	1410	17.8
12.0											1540	19.8

Noise: ●●●●● Visibility: ●●●●● Splash/Mist: ●●●●● Wind Resistance: ●●●●● Aeration effect: ●●●●●

FOUNTAIN NOZZLES



TECHNICAL SPECIFICATION

Ref. Code	Product Description
ASBN25SS	1" Bell Nozzle in SS
ASBN40SS	1 1/2" Bell Nozzle in SS

BELL NOZZLE

- Creates bell or crystal dome effect.
- Clear dome subject to wind distortion.
- Recommended for indoor application.
- Stainless steel finish, female threaded connection.

Noise: ●●●●● Visibility: ●●●●● Splash/Mist: ●●●●● Wind Stability: ●●●●● Aeration effect: ●●●●●

MODEL	ASBN25SS		ASBN40SS	
CONNECTION IN INCH	1"		1 1/2"	
FLOW DETAILS	Flow (LPM)	Head (Mtr)	Flow (LPM)	Head (Mtr)
Spray Dia in mm				
250	35	0.3	75	1
500	45	0.1	85	1.2
750	55	1	90	1.5
1000	70	1.5	110	1.8

CASCADE NOZZLE

- Creates a highly aerated Pin Tree shaped geyser effect at water.
- Water level dependent.
- Baffle wall recommended when used in symmetrical pools.
- Very good against wind, with high noise level & low clogging possibility.
- Stainless steel finish, female threaded connection.

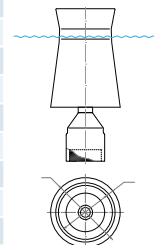
Ref. Code	Product Description
ASCN25SS	1" Cascade Nozzle In SS
ASCN40SS	1 1/2" Cascade Nozzle in SS
ASCN50SS	2" Cascade Nozzle In SS
ASCN75SS	3" Cascade Nozzle in SS



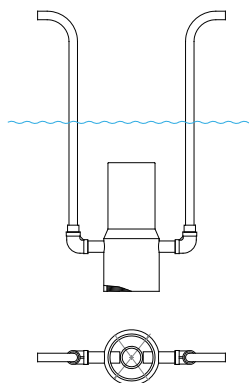
TECHNICAL SPECIFICATION

MODEL	ASCN25SS		ASCN40SS		ASCN50SS		ASCN75SS	
CONNECTION IN INCH	1"		1 1/2"		2"		3"	
ORIFICE IN mm	4		6		8		10	
FLOW DETAILS	Flow (LPM)	Head (Mtr)	Flow (LPM)	Head (Mtr)	Flow (LPM)	Head (Mtr)	Flow (LPM)	Head (Mtr)
Spray Height in Meter								
0.5	48.7	1.6	78.7	2				
1			111.2	4.3	181.2	4	388.7	2.9
1.5			137.5	6.7	211.2	5.2	476.2	4.2
2					243.7	6.9	550	5.5
2.5					268.7	8.3	620	6.8
3							662.5	7.9
4							757.5	10.2
5							841.2	12.4
6							917.5	14.8

Noise: ●●●●● Visibility: ●●●●● Splash/Mist: ●●●●● Wind Stability: ●●●●● Aeration effect: ●●●●●



FOUNTAIN NOZZLES



BUBBLER NOZZLE

- Creates a highly aerated mound of water.
- Comes with Snorkel pipe which has to be above water level.
- Water level dependent.
- Baffle wall recommended when used in symmetrical pools.
- Very good against wind, with moderate noise level & low clogging possibility.
- Stainless steel finish, female threaded connection.

Ref. Code	Product Description
ASBU25SS	1" Bubbler Nozzle in SS
ASBU40SS	1 1/2" Bubbler Nozzle in SS
ASBU50SS	2" Bubbler Nozzle in SS

TECHNICAL SPECIFICATION

MODEL	ASBU25SS		ASBU40SS		ASBU50SS	
CONNECTION IN INCH	1"		1 1/2"		2"	
ORIFICE IN mm	3		5		6	
FLOW DETAILS	Flow (LPM)	Head (Mtr)	Flow (LPM)	Head (Mtr)	Flow (LPM)	Head (Mtr)
Spray Height in Meter						
0.5	80	1	158.7	2		
1			206.2	3.3	296.2	2.7
1.5			243.7	4.5	350	3.7
2					395	4.6
2.5					445	5.8
3						
3.5						
4						

Noise: ●●●●● Visibility: ●●●●● Splash/Mist: ●●●●● Wind Stability: ●●●●● Aeration effect: ●●●●●

ADJUSTABLE FLANGE



FEATURES:

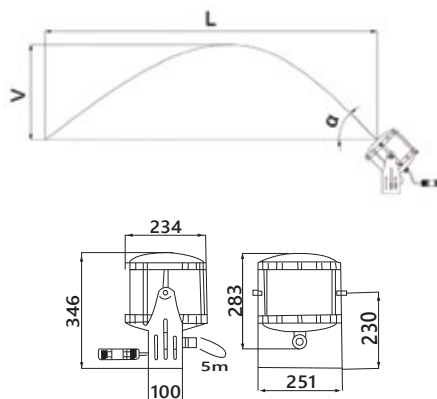
- Adjustable flanges are used to align those jets and nozzles that do not have a swivel base incorporated.
- Required directional adjustment beyond 5 to 15 off centerline for 1"
- Maximum 5 degree of adjustment from center line is possible for other models
- To adjust, loosen bolts on opposite side to intended direction of adjustment and tighten bolt in line of intended adjustment then lock all bolts
- Material of construction is Stainless steel 316

TECHNICAL SPECIFICATION

Ref. Code	BSP
ASAJF25SS	1"
ASAJF40SS	1 1/2"
ASAJF50SS	2"
ASAJF75SS	3"

Ref. Code	Product Description
ASAJF25SS	Adjustable Flange 1"-Threaded (all SS316)
ASAJF40SS	Adjustable Flange 1 1/2"- Flanged (all SS316)
ASAJF50SS	Adjustable Flange 2"- Flanged (all SS316)
ASAJF75SS	Adjustable Flange 3"- Flanged (all SS316)

FOUNTAIN NOZZLES



Dimensions (in mm)



COMPACT RAINBOW JET

The COMPACT RAINBOW JET is a nozzle that develops an illuminated laminar water jet, giving the water a unique aspect, producing a striking visual aspect for the viewer. In its compact design we have incorporated a high power RGBW LED that dramatically illuminates the water parabola in its entirety.

Due to its compact design and small dimensions, it is easy to use in any installation that combined with its low splash and low level of noise, makes it ideal for small gardens, and a complementary element of any source.

TECHNICAL SPECIFICATION

* Rainbow Jet use is recommended with low environmental light.
Maximun 180 lx

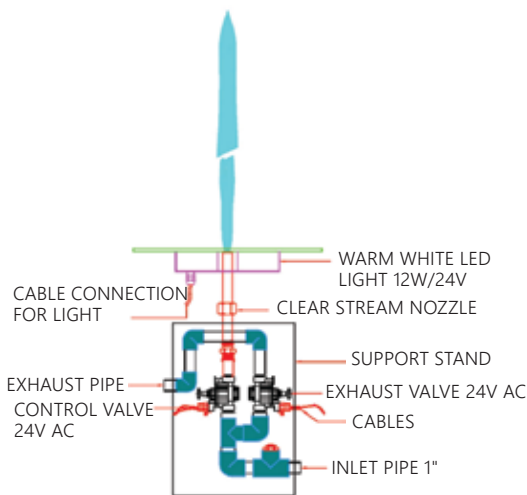
Lights used: 18W/12V RGB

Dimensions								Performance				
Ref.Code	Connection	Outlet	Weight	Power	Voltage	Elec. Connection	Jet angle	Horizontal range	1	2	3	4
	BSP-NPT	(mm)	(kg)				α	(m) L				
ASLJ	G1" F/H(*)	Ø14	17,0	10W	24V DC	0,5m cable with IP68 connector	30°	l/min	18,00	25,00	30,00	34,00
								m.c.a*	0,90	1,60	2,40	3,00
								Height (m) V	0,19	0,32	0,47	0,56
							45°	l/min	17,20	23,50	30,00	35,00
								m.c.a*	0,90	1,50	2,20	2,80
								Height (m) V	0,33	0,54	0,80	1,06
							60°	l/min	19,00	26,00	32,00	36,60
								m.c.a*	1,00	1,80	2,40	3,20
								Height (m) V	0,53	0,97	1,38	1,83
							75°	l/min	24,40	35,50		
								m.c.a*	1,60	3,00		
								Height (m) V	1,10	2,00		

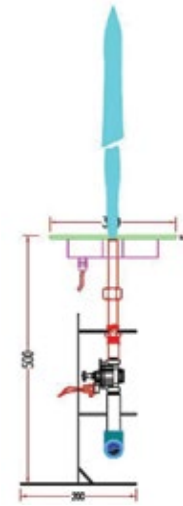
*m.c.a - meters water column.

Noise: ●●●●● Visibility: ●●●●● Splash/Mist: ●●●●● Wind Appearance: ●●●●● Wind Resistance: ●●●●●

INTERACTIVE JET



FRONT VIEW



SIDE VIEW

FEATURES:

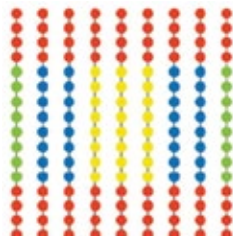
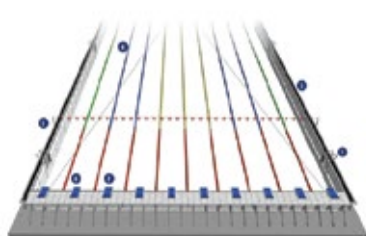
The water switch 601 series was born to create a choreographic display of water. Thanks to the twin solenoid valve technology a perfect of water is formed. To reach the perfect water movement, the solenoid valve can open up to 60 times in a minute. The water Switch 601 is completely made of stainless steel. It can operate with the least possibility to control systems of all kinds of fountains; it needs only one output device to the fountain's main computer. Use a pump with frequency controlled motor to reach the perfect display of water.

SPECIFICATIONS

- All made of 316 SS
- Vertical or horizontal valve installation
- Max. Flow: 100Liters/Min.
- Operating voltage: 24V AC
- Height: 5500mm Standard. Different variation possible.
- Width: 200mm.
- Max. Pressure: 10.3bar.
- Programmable dry deck kit.
- Includes with Round/ Square Top cover
- Flush mounted/Trip safe.
- Twin 9W RGB or 12W Ring light options available
- Inlet connection 1"
- No water hammer fault possibility

COMPETITION EQUIPMENTS

Competition Pool Layout



Colors according to
FINA rules

1. Ladder
2. Starting block
3. Overflow grate
4. Lane ropes
5. Backstroke flags
6. Turning panel with supports



STARTING BLOCK

Starting block that usually consists of two blocks mounted on either side with a frame and that provides a runner with a rigid surface against which to brace the feet at the start of a race.

- Electropolished 316 stainless steel stand.
- Height 355 mm/ 700mm (Other sizes on request).
- 700mm height starting block comes with additional back step.
- Supplied with fixed backstroke starting handle.
- Supplied with 50x50 cm. FRP, anti-slip platform.
- Supplied with stainless steel screw fittings and adhesive numbers (Optional).
- Complies with FINA facility rules.

ADJUSTABLE STARTING BLOCK

These starting blocks are of adjustable type so that swimmers could able to adjust the position in relation to the opening line.

There is a lever in side of starting block by which adjustment is possible. Position also marked in side of starting block so the swimmers could adjust before getting in block.

- Electropolished 316 stainless steel stand.
- Height 385 mm / 750 mm (Other sizes on request)
- 750mm height starting block comes with additional back step.
- Supplied with fixed backstroke starting handle.
- Supplied with 50x50 cm. FRP, anti-slip platform.
- Supplied with stainless steel screw fittings and adhesive numbers (Optional).
- Top platform can be adjustable to 60 mm (Front & back)

COMPETITION EQUIPMENTS



FLOAT LANE

Float Lane Rope : Segregates competition lanes and to eliminates any turbulence (by the rotation of individual floats) which may pass from one lane to another when swimmers are racing.

- High-Quality PP disks with additives resistant to chemicals and weather agents.
- Disk diameter 100 mm. (10 per metre).
- Disks designed to reduce turbulence.
- Assembled on SS316 wire rope, dia 6 mm (Plastic Rope as optional).
- 4 colours: blue, red, yellow and green according to FINA rules.
- Supplied with stainless steel spring and tensioner.



BACK STROKE TURN INDICATORS

Situated 5m from each end of the pool, are a line of flags crossing the water to warn backstroke swimmers that they are nearing the end of the pool so that they can prepare for their turn. Made with a pole of 48.3mm dia.

- 2 x SS316 Back Stroke poles of FINA regulation height 2 m.
- 1 x Back Stroke flags & ropes.
- 2 x Deck pole anchors.
- Three sizes available to suit 12.5m, 15m & 25m wide pool. Custom sizes also available with adequate notice.
- Custom flag printing available to suit your pool or club with adequate notice.



CUP ANCHOR

Anchor cup in stainless steel with hinged hook retaining arm lane rope has been connected with this cup. Flat above deck option also available (as per picture).

- Electropolished 316 stainless steel.
- Square flange 80x80 mm.
- Plate for securing the lane.
- Supplied with brackets for improved installation



FALSE START INDICATORS

Situated 5 metres from one end of the pool, are a line of floats crossing the water to inform swimmers that the race is abandoned. Made with a pole of 48.3 mm dia and supplied with hooks on the ends for attaching ropes or snap-hooks.

- 2 x SS316 false start poles of FINA regulation height 2 Mtr.
- 1 x false start rope & fittings.
- 2 x deck pole anchors.
- Three sizes available to suit 12.5m, 15m & 25m wide pool. Custom sizes also available with adequate notice.

COMPETITION EQUIPMENTS



FLOAT LANE ROLLER

- XL Capacity float lane roller made from SS316 pipes comes with heavy duty, non-marking and locking casters can swivel 360° and easy to maneuver.
- Capable to hold 6 float lane of 25mtr long or 3 float lane rope of 50mtr long
- Mini type Capable to hold 2 float lane of 25mtr long or 1 float lane rope of 50mtr long.



LIFE GUARD CHAIR

- Frame made of SS316, with a 43mm / 38mm dia tubing.
- The threads, seats are made of plastic.
- Base from SS316 with wheels.



LIFE HOOK

This sturdy anodized aluminum swimming pool safety hook, or "shepherd's crook," fits a standard straight pole (do not attach to telescopic poles). It is helpful in emergencies and ideal as a teaching device.

- Constructed from non-conductive fiberglass.
- The life hook is recommended for safety and strength.
- Heavy duty grip for superior control
- Color: Blue



LIFEBUOY

Aqvastar Lifebuoys are manufactured with high density UV grade Polyethylene and Polyurethane foam filled. It comes fitted with Retro reflective tape and grab line of 9.5 mm dia with breaking strength not less than 5 Kilo Newton. The Buoy is manufactured in Orange and durable UV resistant.

- Highly Durable
- Moisture Proof
- UV Resistant
- Non-Inflammable
- Zero Maintenance

POOL COVER

GeoBubble™ is an innovative pool cover material using a bubble profile that has been scientifically designed to increase the expected lifespan of the swimming pool cover material by 25%+

Traditional bubble design:

- Developed and adapted from high-volume, low quality packaging bubble material with a short lifespan.
- Thin points and high residual stress areas, creating weak points quickly broken down by UV rays and chemical attack.

Features

- Unique patented design of two bubbles joined together by a structural reinforcing centre section.
- No sharp corners that could result in thin or weak points in the design.
- No stress points due to the bubble's smooth interconnected curves.
- 30% thicker than a traditional bubble material at its thinnest point.
- Increased resistance against UV rays and chemical attack.

Unique GeoBubble™

- Large footprint to withstand air expansion.
- Also withstands UV effects.
- 30% thicker in comparison to a traditional bubble material.
- Smooth design with no stress points.

Our unique bubble design spent over five years in the research and development stage, in collaboration with London Metropolitan University and the University of Brighton. This synergy between academia and industry expertise has resulted in the development of a unique, patented bubble design. GeoBubble™ has marked a new era in high performance pool covers that offer both improved product longevity and maximum savings.

- Eliminates water evaporation by 98%+
- Reduce debris contamination
- Increase pool temperature
- Reduce chemical consumption
- Reduce energy consumption
- Save money and shrink your carbon footprint
- With GeoBubble™ Technology
- 500 Micron covers available
- 4, 5, 6 and 6.5 meter wide Dark Blue Silver Jumbo rolls are available

INSULATING PROPERTIES

The material is comprised of two layers laminated together, the bottom layer makes up two thirds of the total thickness of the material and is formed into buoyant air cells that allow the cover to float on the water. The large footprint of the GeoBubble™ profile also acts as an insulator, retaining energy gained throughout the day mitigating heat loss from the pool.

PREVENTS EVAPORATION

Our materials reduce water losses through evaporation by working as a barrier between the water's surface and the atmosphere. By simply covering the pool with the material, evaporation is reduced by over 98% resulting in the preservation of the water resources and increased temperatures within the swimming pool.

LIFE SPAN

The unique GeoBubble™ design has been scientifically developed to provide performance and longevity of the blended LDPE 4 polyethylene cover material, providing a sustainable 100% recyclable, energy and cost saving product.

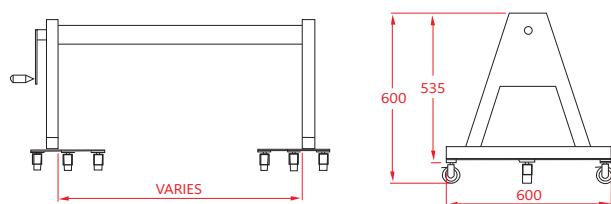
Material	Blended LDPE/LLDPE	
Weights	500 µm	460 gm ²
Weld edges	30 mm	Bespoke (0-50 mm)
Widths	Roll – 2m, 2.5m	Jumbo rolls (4, 5, 6, 6.5 mtr)
Roll Lengths +/- 2%	102m & 51m	Jumbo rolls 50m
Roll Diameter +/- 1% (varies with thickness)	0.58m Ø for 51m	
Bubble Design	GeoBubble™ 15 x 30 mm x 5.5 mm (H)	
Bubbles per m ²	1943	
UV Protection	Standard 0.6% additive	

Ref. Code	Product Description
ASPBG4M	4 Mtr Wide Geo Bubble cover - 500 micron
ASPBG5M	5 Mtr Wide Geo Bubble Cover- 500 micron
ASPBG6M	6 Mtr Wide Geo Bubble Cover- 500 micron
ASPBG65M	6.5 Mtr Wide Geo Bubble Cover- 500 micron

Note : Availability of 6.5 meter cover to be checked with Aqvastar office

Manufactured by Plastipak, UK

COVER ROLLER



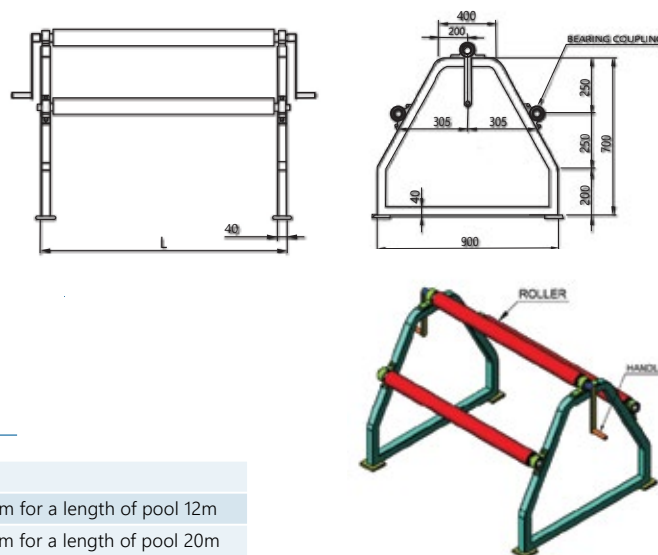
The Stationary Pool Roller is made from high grade, 316 stainless steel and is ideal for medium pools from 4m wide by 12m long to large pools upto 6.5m wide by 30m long.

Features

- A frame for stability and ruggedness.
- SS shaft of 63mm dia to hold long length pool cover without deforming.
- Manual single handle with bearing makes the roller handling easy.
- Adjustable screw/ flange to position roller intact.
- 10 heavy duty wheel with lock for easy mobility.
- Ropes & connection kit included.
- SKF bearing for long life & rust free.
- Rugged design ensures no bending or sagging of roller possible due to weight of cover with or without water
- Bottom locking tubes further enhances the quality against sagging.
- Crank Handle allows cover and uncover the pool



Different model with different ability in providing strength when the length & width increases.



Ref. Code	Product Description
ASPCR 412	Aqvastar SS316 Pool Cover Roller suitable for cover sizes upto 4m for a length of pool 12m
ASPCR 520	Aqvastar SS316 Pool Cover Roller suitable for cover sizes upto 5m for a length of pool 20m
ASPCR 630	Aqvastar SS316 Pool Cover Roller suitable for cover sizes upto 6m for a length of pool 30m
ASPCR 6530	Aqvastar SS316 Pool Cover Roller suitable for cover sizes upto 6.5m for a length of pool 30m
ASPCR 630T	Aqvastar SS316 Twin Pool Cover Roller suitable for cover sizes upto 6m for a length of pool 30m (Capable to hold 2 rolls)
ASPCR 630M	Aqvastar SS316 Multi Pool Cover Roller suitable for cover sizes upto 6m for a length of pool 30m (Capable to hold 3 rolls)

COVER ROLLER

Eco Model

The Eco Pool Roller is made from combination of high grade, 316 stainless steel support and aluminium shaft, and is ideal for medium pools from 4m wide by 12m long to large pools upto 7.5m wide by 30m long.

FEATURES

- Eco frame for stability and ruggedness.
- Aluminium shaft of 100-108mm dia and 250cm/300cm long to hold long length pool covers without deforming.
- Manual wheel with bearing makes the roller handling easy.
- Adjustable screw/ flange to position roller intact.
- Heavy duty wheel with lock for easy mobility.
- Ropes & connection kit included.
- SKF bearing for long life & rust free.
- Rugged design ensures no bending or sagging of roller possible due to weight of cover with or without water
- Bottom locking tubes further enhances the quality against sagging.



Ref. Code	Product Description
AS PCR 550 ECO	Aqvastar ECO roller with SS316 stand & Aluminium shaft of 100 - 108mm dia and 250cm long, suitable for 4-5.9 mtr covers
AS PCR 750 ECO	Aqvastar ECO roller with SS316 stand & Aluminium shaft of 100 - 108mm dia and 300cm long, suitable for 6-7.5 mtr covers



AUTOMATIC POOL COVERS

Having installed 1,12,000 slatted covers, Abridblue at Hydra Systems have acquired unrivalled experience in the design and manufacturing of pool slatted covers:

- From the simplest models (MANU) to the most complex models (DIVER)
- From conventional configurations (rectangular pools) to non-standard shapes (lazy, egg-shaped, etc.)
- From the smallest dimensions to the boldest designs (Olympic pools)
- From the most familiar to the most extreme (from the national market to Sweden, to Canada, but also Africa and Japan, etc.)

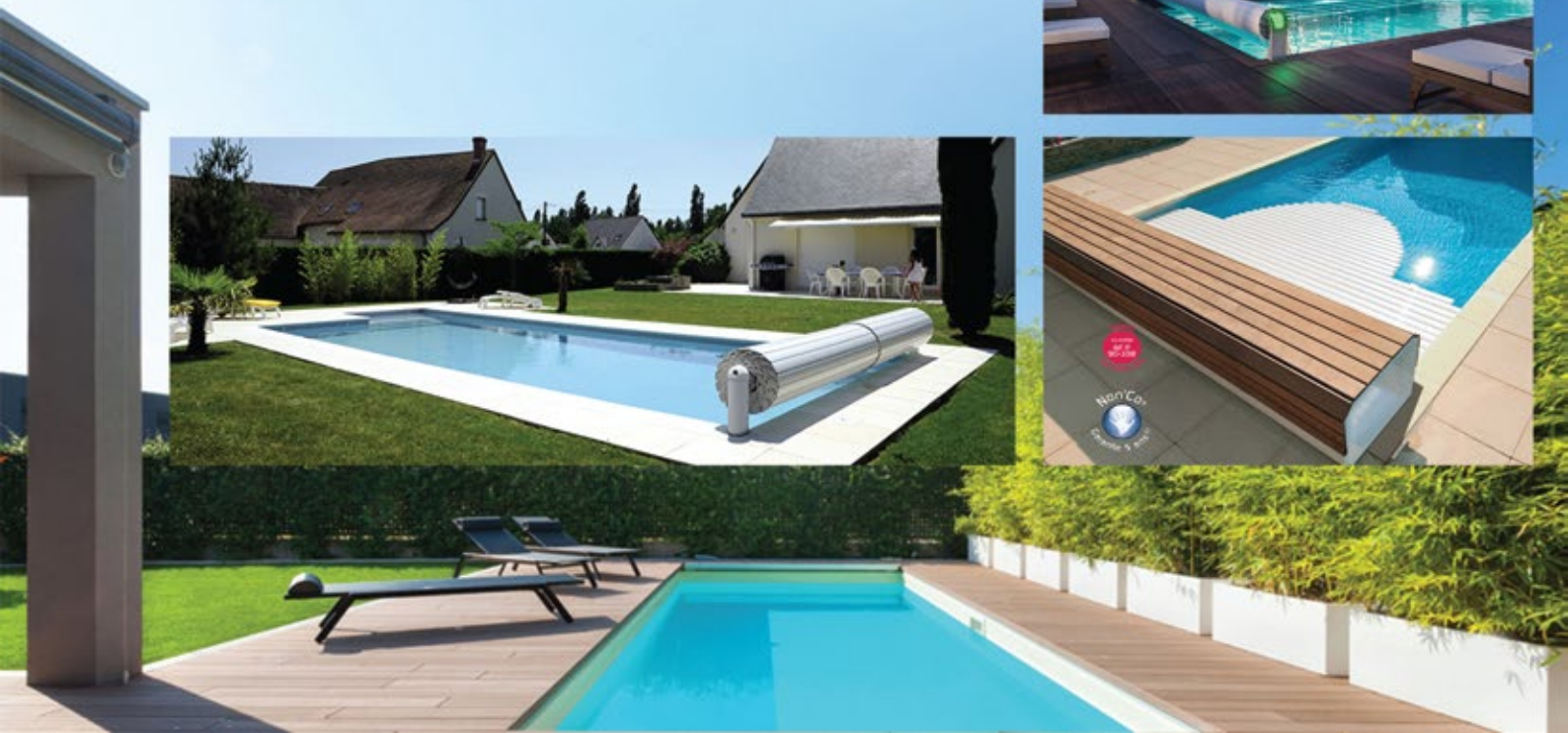
A team of technicians and engineers work continuously on innovative solutions to better meet your requirements. Supported by validations by specialised firms, the solutions retained are tried and tested, reliable and provide true added value to the products. Whether this concerns easy installations and use, improving performances or the aesthetics.

Experts in exceptional slatted covers due to their dimensions (up to 25 x 50 m) or their configurations (pool bottom, displaced slatted covers), our team of technicians is at your side to study solutions adapted to your requirements and assist you at every stage of the project.

TWO MAJOR MODELS

Above water

- For Existing Pools & New Pools.
- Installed above water & in deck area.
- Visible Outside.
- Once rolled, the rolled portion comes inside pool for 200 mm.
- Comes with wooden covers(BANC model) for covering the entire arrangement (optional).



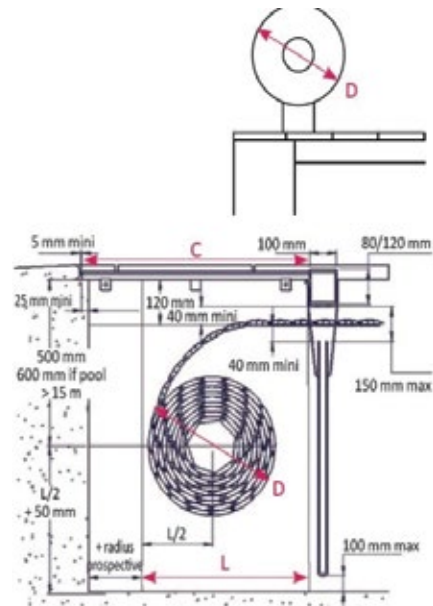
SUBMERGED

- For new pools or replacement only
- Installed under the water (Submerged)
- Non visible from outside.
- 3 Models.

Comes with horizontal and vertical walls to protect cover arrangement. Different installation options available.

Diameter of the slat roll according to the swimming pool length
Dimensions of the submerged technical pit(DIVER, see specific focus)

(Diameter 200 mm roller shafts)	D (mm)	Pit		Decking	
		L (mm)	P (mm)	C (mm)	CP (mm)
4	420	500	775	505	Standard 800 (for 775 pit)
5	440	500		525	
6	460	520		545	
7	480	540		565	
8	500	560		585	
9	530	590		615	
10	560	620		645	
11	580	640		665	
12	590	650	900	675	Standard 925 (for 900 pit)
13	620	680		705	
14	640	700		725	
15	660	720		745	
16	680	740	975	765	Made-to-measure 1000 (for 975 pit)
17	700	760		785	
18	720	780		805	
19	740	800		850	
20	790	850		875	
25	830	890		925	



D = Roller diameter including the shaft.

L = Minimum technical pit width for functional gap.

P = Abriblue recommendation for standard pit width.

C = Minimum duckboard length over the technical pit with sharp angles, for non-standard production.

CP = Standard duckboards according to recommendations "P" with Abriblue partition wall.



CHEMICAL FEEDER

Automatic Chlorinator Brominated In-Line Model

The chemical dosing unit has been designed for installation in the pool's return line for use with slow dissolving Tri-chlorine or Bromine tablets. The quantity of sanitizer is quickly adjusted to give the required residual by way of the easy to use inlet valve.

To avoid the build-up of gasses being trapped inside the feeder when the pump is shut off, it must be installed above water level and below the filter outlet. The manufacturer strongly recommends the installation of a non-return valve to protect the plant room from chemical attack, should the situation arise where water siphons back through the system.



ASCF9

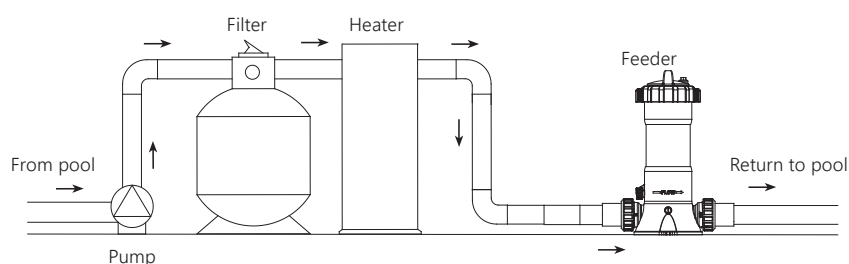
TECHNICAL SPECIFICATION

- Connection: 1.5" Screw thread
- Max pressure: 4kg/cm²
- Max capacity: 4.5kg
- Max dosage: Chlorine - 35gr/hr
Bromine - 2gr/hr
- Recommended pool size: Chlorine - 20-80m³
Bromine - 4-50m³

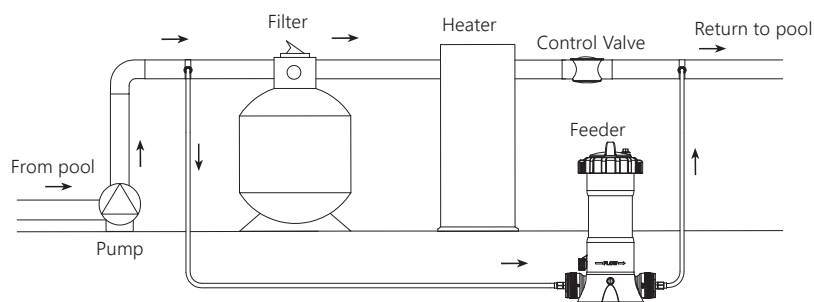
IN - LINE AND OFF - LINE CONFIGURATIONS

To accommodate most capacity, plumbing and space considerations

Direct In-line



Bypass arrangement



Note: Chemical feeder to be installed as a last equipment before water entering the pool

DOSING PUMP

Chemical Dosing is of fundamental importance to keep pool water clean & hygiene. Dosing pumps are low-volume pumps with controllable discharge rates that are used to inject additives or difficult-to-mix fluids into mixing, pumping, or batch/tank systems.

Ref.Code	ASCDP505	ASCDP2007
Voltage	230V, 50HZ	230V, 50HZ
Capacity	0-6 LPH	0-20 LPH
Pressure	4 kg/cm ²	7 kg/cm ²

FEATURES:

- Electronic Dosing Pump
- Electronically operated mechanically actuated Diaphragm
- Adjustable injection frequency (15 to 100 SPM)
- Compact size, light weight, more robust structure
- Unique double ball check. NRVs for better dosing accuracy
- Solenoid drive with minimum moving parts
- 1 MWC max suction lift

ACCESSORIES

- Suction & Discharge Tubing of LDPE Material 2.5 mtrs in length
- Strainer cum Foot valve
- Antisiphon valve in PP



Model - ASCDT60, ASCDT100, ASCDT220, ASCDT300, ASCDT500

DOSING TANK

Dosing tanks are made to efficiently store and dose chemicals. These tanks are built in semi-transparent polyethylene (PE) capable to handle harsh chemicals storage. Capacities are 60, 100, 200, 500 Ltrs.

Also available with side graduations to check levels easy for competition pool (on request).

Note: Dosing System to be installed as a last equipment before water entering the pool



MATERIAL OF CONSTRUCTION OF WETTED PARTS

- Stainless 316, 304, 316L, 304L
- Monel
- Hastalloy B, C
- Alloy 20
- PP, PTFE, GFT
- Diaphragm – PTFE backed by Hypalon

APPLICATIONS

- Water & Waste Water Treatment Chemicals
- Laboratory Chemicals



Model - ASSTR600, ASSTR900

STIRRER

PVC Stirrers are compact & lightweight, for easy handling comes with handle and unions to fix in top of dosing tank. Sizes available are 600 mm & 900 mm long.



NEW
110W

evoUV

ULTRAVIOLET CLARIFIERS FOR PONDS

Eradicates green water in garden ponds

Features highly efficient ballasts

IP Rating of IPX5, IP64 (evo 110)

Easy to maintain, easy to install

Ballast located in a fully water-tight cover

Connects to flexi-hose or rigid pipework

6 models; 15W, 25W, 30W, 55W, 75W & 110W

UV

EVO UV

UV-C DISINFECTION SYSTEM

Manufactured in the UK, the UV-C range has been specifically designed to deliver exceptional performance, great water clarity, all the while being economical to run. The range of UVs come in seven options, 15 Watt, 25 Watt, 30 Watt, 55 Watt, 75 Watt, 110 Watt, and 220 Watt. The range has been designed with cost and practicality in mind, adding value to our customers.

FEATURES & BENEFITS

- High output, energy efficient electronic ballast
- Fully serviceable for easy maintenance
- Easy to install
- UV bulbs deliver high output (T8 type)
- No dead spots in the filament
- Longer lasting UVC bulb lifespan
- Average lamp life expectancy: 2 years / 9000 hours
- 2 year warranty (excluding bulb & quartz sleeve)
- Compatible with salt chlorinators
- Electrical rating: 240V, 50 Hz
- BS/ASTM sockets available



TECHNICAL SPECIFICATION

MODEL	EVO15	EVO16	EVO17
For swimming pools up to (litres)	15,000	25,000	30,000
Max flow rate (litres/hour)	7,500	10,000	15,000
No of bulbs	1 x 15W	1 x 25W	1 x 30W
Electronic ballast	✓	✓	✓
Inlet /outlet	2 x 1.5" socket/50mm socket	2 x 1.5" socket/50mm socket	2 x 1.5" socket/50mm socket
Dimensions L x H x D (mm)	525 x 167 x 88	525 x 167 x 88	995 x 167 x 88

MODEL	EVO18	EVO19	EVO20	EVO21
For swimming pools up to (litres)	55,000	75,000	110,000	150,000
Max flow rate (litres/hour)	20,000	25,000	25,000	25,000
No of bulbs	1 x 55W	1 x 75W	2 x 55W	4 x 55W
Electronic ballast	✓	✓	✓	✓
Inlet /outlet	2 x 1.5"socket/50mm socket	2 x 1.5"socket/50mm socket	2 x 2"socket/63mm socket	2 x 2"socket/63mm socket
Dimensions L x H x D (mm)	995 x 187 x 88	1297 x 167 x 88	1040 x 285 x 170	1091 x 756 x 170

UV

VGE Pro UV INOX System

REACTORS

INOX

The high quality 316L stainless steel reactor of the VGE Pro INOX series have been designed to perform. After the high quality welding process the units are leak tested. After this process they get a pickling and passivation treatment which drastically improves the corrosion resistance and lifetime of the unit. Another last treatment with glass pearls (shot peening) gives the units a nice, matt grey surface.

FEATURES

- Prevents the release of harmful UV-C radiation
- Changing the UV-C lamp with water in the system
- Resistant to corrosion
- Splash proof
- Visual inspection for operation of the lamp
- Clamping system for optimal seal function
- Lamp replacement without tools

VGE PRO UV-C CONTROL UNITS

Each VGE Pro UV-C disinfection system is equipped with a control cabinet. There are several control units which can be combined with a suitable VGE Pro unit and several other options like a temperature sensor and a flow switch.

UV-C & TEMPERATURE SENSOR

VGE Pro UV-C units can be equipped with a UV-C & temperature sensor. These digital sensors can be delivered in teflon (only the UV-C sensor) or stainless steel. The VGE Pro control monitors are designed to work with these UV-C & temperature sensor

VGE PRO INOX

Model	Reactor shape	Max. pressure	Connection	Capacity (1)	Quality water (2)		
		[bar]		[m ³ /h]	Good	Medium	Bad
400-54	Z	6	1"	18		✓	✓
40-76	L	6	3/4"	3	✓	✓	
75-76	L	6	3/4"	6			
140-76	U	6	1 1/2"	12	✓	✓	
200-76	U	6	2"	17	✓	✓	
75-114	U	6	2"	10	✓	✓	
140-114	U	6	2"	20	✓	✓	
200-154	U	6	DN80	38	✓		
420-168	U	6	3"	78	✓	✓	
400-204	U	6	DN100	92	✓		
600-219	U	6	DN125	140	✓		
975-306	L	6	DN250	306	✓		
1950-306	L	6	DN250	600	✓		



SMART PIN TECHNOLOGY

The VGE Pro UV-C disinfection systems are equipped with the unique Smart Pin Technology (SPT). This innovative system is a reliable way to integrate the UV-C lamp(s) in a safe, efficient and smart way in a reactor. The SPT makes it possible to replace the lamp safely, although the system is filled with water and pressurized.

ADVANCED OXIDATION PROCESSES

Advanced Oxidation Processes (AOP): are chemical treatments to reduce organic and inorganic components from water via oxidation. AOP's use the oxidative power of the hydroxyl radical ($\bullet\text{OH}$), which has the second best oxidation potential and is the strongest oxidiser that can be used in water. The process converts the contaminant materials to a large extent in stable compounds such as water, carbon dioxide and salts, i.e. they are mineralized. In general, when used in the correct way, AOP's can significantly reduce the COD and TOC levels in your water. In general it is advised to apply the AOP as final treatment step in a water treatment system so that all natural present scavengers of the hydroxyl radical are reduced as much as possible, especially bicarbonate ions (HCO_3)

PRO-UV-C CONTROL UNITS

For the VGE Pro UV-C systems 4 different control units are available, knowing: Basic, control timer, control monitor and control monitor Plus. The Basic version is suited with an electronic ballast to drive the lamp(s). The control timer has additionally a LED display for showing the operational lamp hours. The control monitor has a colour display and an optional UV sensor can be connected for monitoring the treatment process. The most complete control panel is the control monitor Plus. A UV sensor, temperature sensor and a flowswitch can be connected and the control unit has alarm and warning functions built-in.

Note: Manufactured by Blue Lagoon, Netherlands

UV

HDPE Low Pressure
UV Lamp Systems



BENEFITS HDPE UV

The high quality HDPE treatment chamber. of VGE Pro HDPE series have been designed to treat highly corrosive water. Besides that, HDPE is resistant to UV radiation. They are suited for all kinds of disinfection and UV-C treatment applications and can even be used for the production of ultrapure water, semiconductor-, pharmaceutical- and cosmetic industry.



- UV radiation resistant
- Suitable for corrosive water
- Easy to install
- Optional digital teflon UV-C sensor and HDPE water temperature sensor

SMART PIN TECHNOLOGY (SPT)

The VGE Pro UV-C Disinfection systems are equipped with the unique Smart Pin Technology (SPT). This innovative system is a reliable way to integrate the UV-C lamp(s) in a safe, efficient and smart way in a reactor. The SPT makes it possible to replace the lamp safely, although the system is filled with water and pressurized.

- Prevents the release of harmful UV-C radiation
- Changing the UV-C lamp with water in the system
- Splash proof
- Visual inspection for operation of the lamp
- Clamping system for optimal seal function
- Lamp replacement without tools

TECHNICAL SPECIFICATION

Model	Connection	Capacity* [m³/h]	Number of lamps	Power (kW)
75-110	2"	10	1 x 75 W	0.08
140-110	2"	17	1 x 140 W	0.16
200-110	2"	23	1 x 200 W	0.23
200-160	DN65	35	1 x 200 W	0.23
400-200	DN100	83	2 x 200 W	0.45
600-225	DN125	124	3 x 200 W	0.68
975-315	DN250	278	3 x 325 W	1.11
1950-315	DN250	544	6 x 325 W	2.21

*Capacity based on 400 J/m², T10 mm @ 254 nm = 98 %, MPSSM-average intensity (max. flow speed of 3 m/s not included)

UV

UV-C TECH

In the Blue Lagoon UV-C, a UV-C radiation with a wavelength of 253.7 nm is generated, ensuring a lethal effect on bacteria (including Legionella bacteria). This lamp has been specially developed by Philips and is ideal for water temperatures up to 40 degrees Celsius. The Blue Lagoon UV-C will ensure that your pool or spa water is clean, fresh and clear in an efficient and environmentally friendly manner. The water is fed through the UV-C device via a pump. The UV-C radiation neutralises bacteria, viruses and other primitive organisms and stops them from multiplying. This UV system can reduce the use of chlorine and other chemicals by up to 80% !

TECHNICAL SPECIFICATION

Model No	UVC TECH 16W	UVC TECH 40W	UVC TECH 75W	UVC TECH 130W
Type	15.000 / 16 W	40.000 / 40 W	75.000 / 75 W	150.000 / 130 W
Max Pool Capacity (L)	15.000 L	40.000 L	75.000 L	150.000 L
Rec. flow for 30 mJ/cm ²	5 m ³ /h	11 m ³ /h	16 m ³ /h	22 m ³ /h
Max Pressure	2.5 bar	2.5 bar	2.5 bar	2.5 bar
Max Flow	23m ³ /h	23m ³ /h	23m ³ /h	23m ³ /h
Diameter unit Ø	70 mm	70 mm	70 mm	70 mm
Length unit	56cm	100cm	100cm	100cm
Diameter in-outlet Ø	63mm / 50mm / 1 1/2"	63mm / 50mm / 1 1/2"	63mm / 50mm / 1 1/2"	63mm / 50mm / 1 1/2"
Housing Material	1.4404 (SS 316 L)	1.4404 (SS 316 L)	1.4404 (SS 316 L)	1.4404 (SS 316 L)
Electronic Ballast	230V AC 50Hz	230V AC 50Hz	230V AC 50Hz	230V AC 50Hz
Lamp power	16W	40W	75W	130W
Lamp	VGE T5 16 W 4P	VGE T5 40 W 4P	VGE T5 75 W 4P	Philips 130 W Amalgam
Lifespan lamp	9.000 hours	9.000 hours	9.000 hours	12.000 hours
Flow switch	-	-	-	✓



UV-C TIMER

FEATURES

- Timer function that indicates the remaining lifetime of the lamp
- A built-in electronic ballast to ensure a smooth power supply
- Up to 35% more UV-C yield as a result of reflection by the Stainless Steel interior
- 316L stainless steel housing
- Easy to install and easy to maintain

TECHNICAL SPECIFICATION

Model No	UVC TIMER 40W	UVC TIMER 75W	UVC TIMER 130W
Type	40.000 / 40 W	75.000 / 75 W	150.000 / 130 W
Rec. flow for 30 mJ/cm ²	11 m ³ /h	16 m ³ /h	22 m ³ /h
Max Pressure	2 bar	2 bar	2 bar
Max Flow	23m ³ /h	23m ³ /h	23m ³ /h
Diameter unit Ø	70 mm	70 mm	70 mm
Length unit	100cm	100cm	100cm
Diameter in-outlet Ø	63mm / 50mm / 1 1/2"	63mm / 50mm / 1 1/2"	63mm / 50mm / 1 1/2"
Housing Material	1.4404 (SS 316 L)	1.4404 (SS 316 L)	1.4404 (SS 316 L)
Electronic Ballast	230V AC 50Hz	230V AC 50Hz	230V AC 50Hz
Lamp power	40W	75W	130W
Lamp	Philips TUV 36T5 4P-SE (40 W)	Philips TUV 36T5 HO 4P-SE (75 W)	Philips TUV 130 W 4P-SE Amalgam
Lifespan lamp	9.000 hours	9.000 hours	12.000 hours
Timer	✓	✓	✓
Replace lamp alert	✓	✓	✓
Flow switch	-	-	✓



UV



UV-C OZONATOR

ADVANTAGES

- Ensures fresh, clean and crystal clear water
- Less maintenance and more carefree use of your swimming pool
- Suntan lotion, cosmetics, urine and perspiration are broken down by ozone
- Bound chlorine is broken down by UV-C light
- Disinfects water efficiently and safely
- Protects your pool from germs
- Alleviates the formation of bacteria, algae and mould
- Can reduce the use of chlorine by up to 90% immediately after the installation
- UV Sterilization is user-friendly and safe
- More environmentally-friendly than traditional methods
- Cost-saving

FEATURES

- Up to 35% more UV-C yield as a result of reflection
- 100% efficient and constant operation
- 316L stainless steel interior
- The Blue Lagoon Ozone UV-C is earthed
- Ozone UV-C lamp operates for 4,500 hours (± 2 swimming seasons)
- The device indicates when the lamp needs replacing
- Easy installation and maintenance

TECHNICAL SPECIFICATION

Model No	UVC OZONE 75W
Type	75.000/75W
Rec.flow for 30 mJ/cm ²	18 m ³ /h
Max.pressure	2.5 bar
Max.flow	23 m ³ /h
Diameter unit Ø	70 mm
Length unit	100 cm
Diameter in-outlet Ø	63mm / 50mm / 1 1/2"
Housing material	DUPLEX
Electronic ballast	230V AC 50 Hz
Lamp power	75W
Lamp	VEGE T5 75W Ozone
Lifespan lamp	9.000 hours ozone - 9.000 hours UV-C
Ozone	0.6 gr/h
Timer	✓
Replace lamp alert	✓



UV-C IONIZER

ADVANTAGES

- Ensures fresh, clean and clear water
- Disinfects water efficiently and safely
- Protects your pool from germs
- Alleviates the formation of bacteria, algae and mould
- Reduces the need for chlorine and other chemicals
- More environmentally-friendly than traditional methods

FEATURES

- Enables swimming without the use of chlorine
- Up to 80% disinfection by UV-C
- Up to 20% disinfection by copper electrolysis
- 316L stainless steel housing
- Yields up to 35% more UV-C as a result of reflection
- UV-C lamp and copper unit are typically sufficient for 2 swimming seasons
- Easy installation and maintenance
- The Blue Lagoon UV-C Ionizer is earthed

TECHNICAL SPECIFICATION

Model No	UVC COP ION 40 W	UVC COP ION 75 W
Type	40.000/ 40W	75.000/ 75W
Rec.flow for 30 mJ/cm ²	11 m ³ /h	16 m ³ /h
Max.pressure	2 bar	2 bar
Max.flow	23 m ³ /h	23 m ³ /h
Diameter unit Ø	70 mm	70 mm
Length unit	100 cm	100 cm
Diameter in-outlet Ø	63mm / 50mm / 1 1/2"	63mm / 50mm / 1 1/2"
Housing material	1.4404 (SS 316 L)	1.4404 (SS 316 L)
Electronic ballast	230V AC 50 Hz	230V AC 50 Hz
Lamp power	40W	75W
Lamp	Blue Lagoon T5 40 W Ionizer	Blue Lagoon T5 75 W Ionizer
Lifespan lamp	9.000 hours	9.000 hours
Copper ionizer	0.7 ppm	0.7 ppm
Replace lamp alert	✓	✓

UV

Xpert Buster UV-C



BLUE LAGOON XPERT BUSTER UV-C

The Buster UV-C is made out of 316L stainless steel and comes in the types: 80 W, 140 W amalgam or 420 W (3x140 W) amalgam.

The cable between the timer box and the unit is extra long for optimal flexibility.

ADVANTAGES

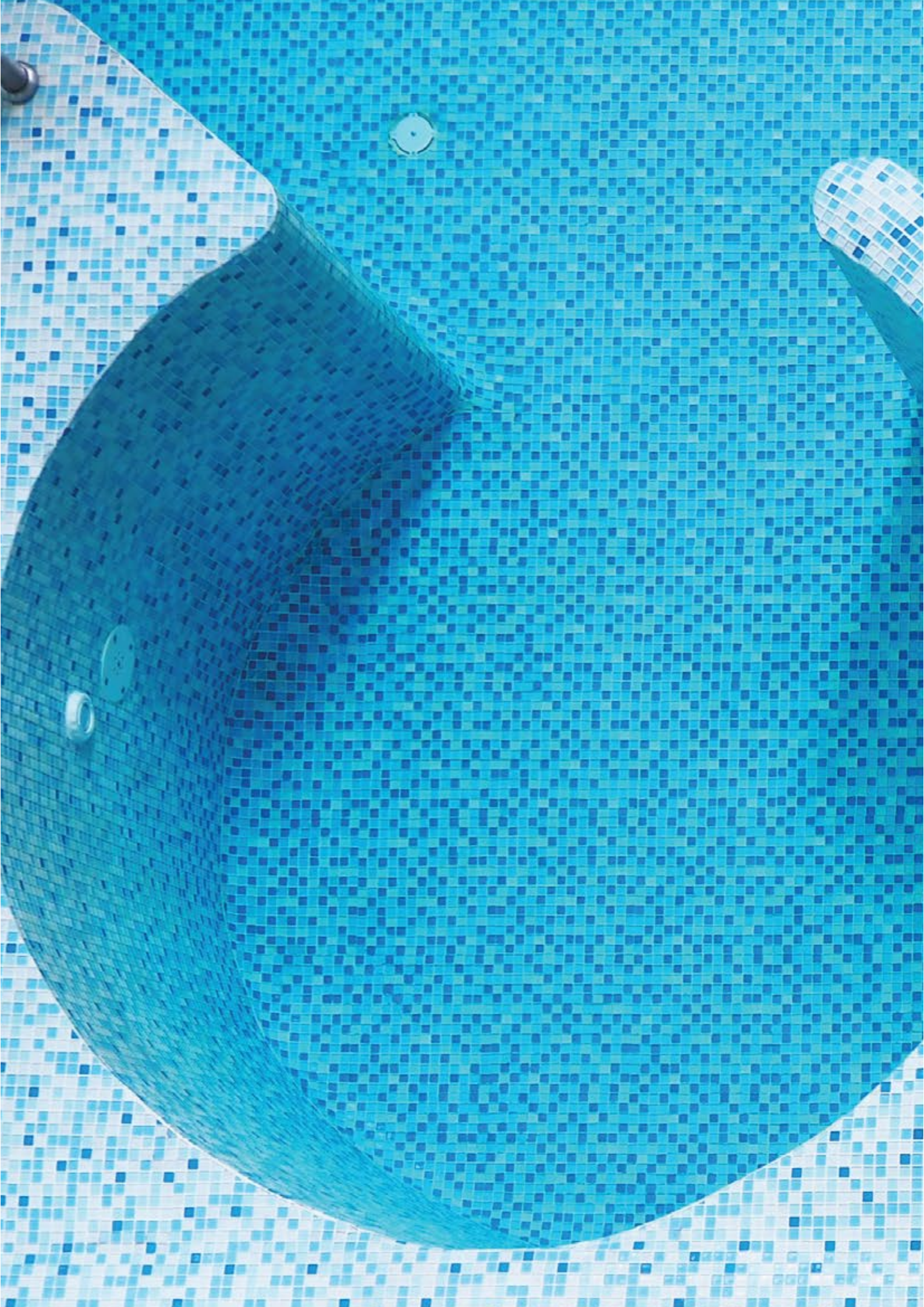
- Up to 35% higher UV-C yield
- Crystal clear water guaranteed
- Long lamp life (up to 16.000 hours)
- Easy to maintain
- Can be placed both horizontally and vertically
- Made in the Netherlands
- The Buster units are equipped with interchangeable supports for easy installation horizontally and vertically

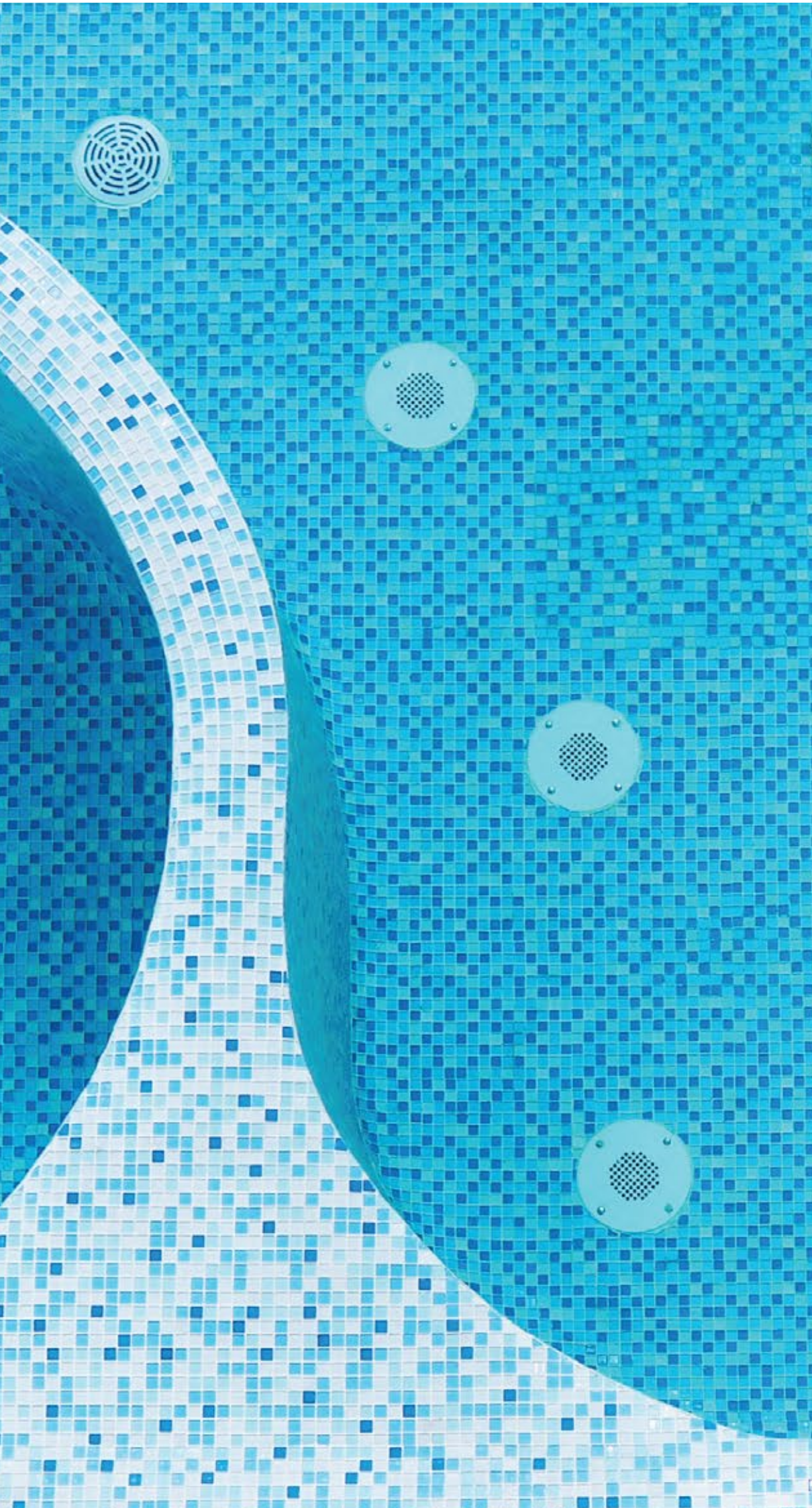
AMALGAM LAMP

The amalgam version includes a flow switch that will turn off the lamp when the flow is too low. The UV-C amalgam lamp is less affected by temperature fluctuations in the water and generates a constant, powerful radiation. Amalgam UV-C radiation is known as being the most powerful UV-C radiation available on the UV-C market.

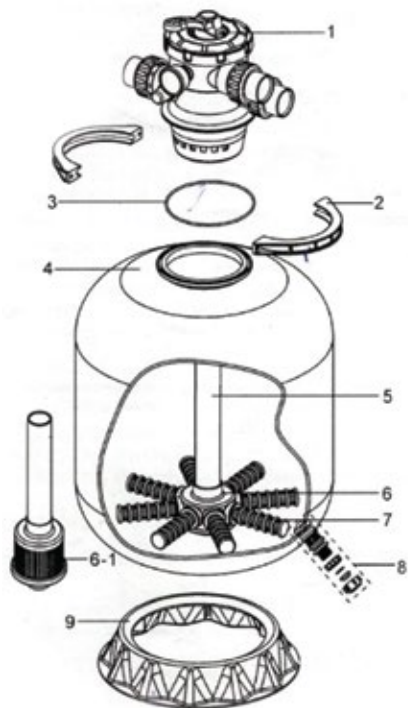
TECHNICAL SPECIFICATION

MODEL NO.	UVC XPERT BUSTER 80	UVC XPERT BUSTER 140	UVC XPERT BUSTER 420
Type	80 W	140 W	420 W
Rec. flow for 30 mJ/cm ²	15 m ³ /h	23 m ³ /h	49 m ³ /h (for 40 mJ/cm ²)
Max. pressure	4 bar	4 bar	4 bar
Max. flow	20 m ³ /h	28 m ³ /h	49 m ³ /h
Diameter unit Ø	114 mm	154 mm	219 mm
Length unit	93 cm	93 cm	93 cm
Diameter in-outlet Ø	2" male threaded	2,5" male threaded	3" male threaded
Housing material	316 L	316 L	316 L
Electronic ballast	230 V AC 50 Hz	230 V AC 50 Hz	230 V AC 50 Hz
Lamp power	80 W	140 W	3 x 140 W
Lamp	VGE T5 80 W	VGE T6 140 W Amalgam 4P	3x T6 140 W Amalgam 4P
Operating environment ballast temperature	1-40 °C	1-40 °C	1-40 °C
Lifespan lamp	9.000 h UV-C	16.000 h UV-C	16.000 h UV-C
Indicator	✓	✓	✓
Replace lamp alert	✓	✓	✓
Flow switch	-	✓	✓



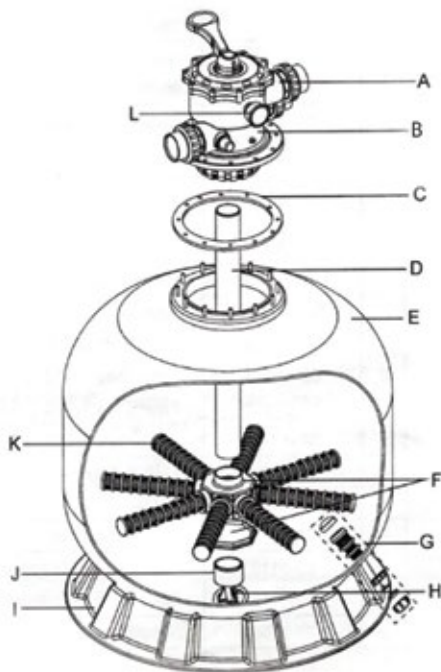


SPARE PARTS



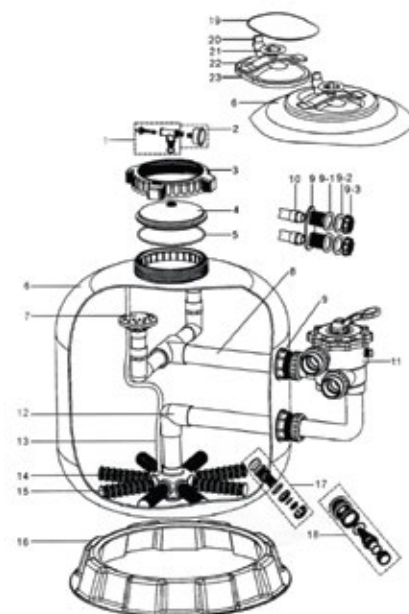
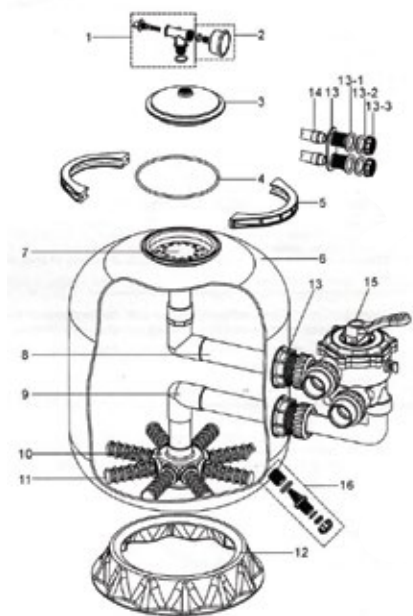
TOP FILTER Ø400~Ø750 SPARES

Id	Code	Description
1	01-05	Clamp Lock Multiport Valve 1.5"
2	01-0505	Clamp
	01-0507	Nut Lid
	01-0112	Shim
3	02-0901	O'-ring, Lid
4	02-14011	Filter Body Ø350
	02-14012	Filter Body Ø400
	02-14013	Filter Body Ø450
	02-14014	Filter Body Ø500
	02-14015	Filter Body Ø650
	02-14016	Filter Body Ø700
5	02-09046	1.5" Center Pipe Ø350
	02-09041	1.5" Center Pipe Ø400
	02-09042	1.5" Center Pipe Ø450
	02-09043	1.5" Center Pipe Ø500
	02-09044	1.5" Center Pipe Ø650
	02-09045	1.5" Center Pipe Ø700
6	02-0107	Lateral Assembly
6-1	02-1402	Filter Pipe
7	02-0108	Lateral Ø350~Ø500
	02-0108-1	Lateral Ø650~Ø700
8	02-1403	Drain
9	02-1404	Filter Support Stand Ø350~Ø400
	02-0113B	Filter Support Stand Ø450~Ø500
	02-0110B	Filter Support Stand Ø650~Ø700



TOP FILTER Ø800~Ø1400 SPARES

Id	Code	Description
A	01-02	Multiport Valve 2"
B	02-0101	Nut lid
	02-0102	Shim
C	02-0201	Gasket of Flange
D	02-02021	Center Pipe Ø800
	02-02022	Center Pipe Ø900
	02-02023	Center Pipe Ø1000
	02-02024	Center Pipe Ø1100
	02-02025	Center Pipe Ø1200
	02-02026	Center Pipe Ø1400
E	02-02041	Filter body Ø800
	02-02042	Filter body Ø900
	02-02043	Filter body Ø1000
	02-02044	Filter body Ø1100
	02-02045	Filter body Ø1200
	02-02046	Filter body Ø1400
F	02-0205	Lateral Assembly
G	02-0111	Drain
H	02-0112	Positioning pillar
I	02-0208	Filter Support Stand Ø800~Ø900
	02-0209	Filter Support Stand Ø1000~Ø1100
	02-0210	Filter Support Stand Ø1200
	02-0211	Filter Support Stand Ø1400
J	02-0207	Support pipe
K	02-0206	Lateral Ø800~Ø900
	02-0212	Lateral Ø1000~Ø1400
L	01-0126	O-ring
	01-0127	Pressure Gauge

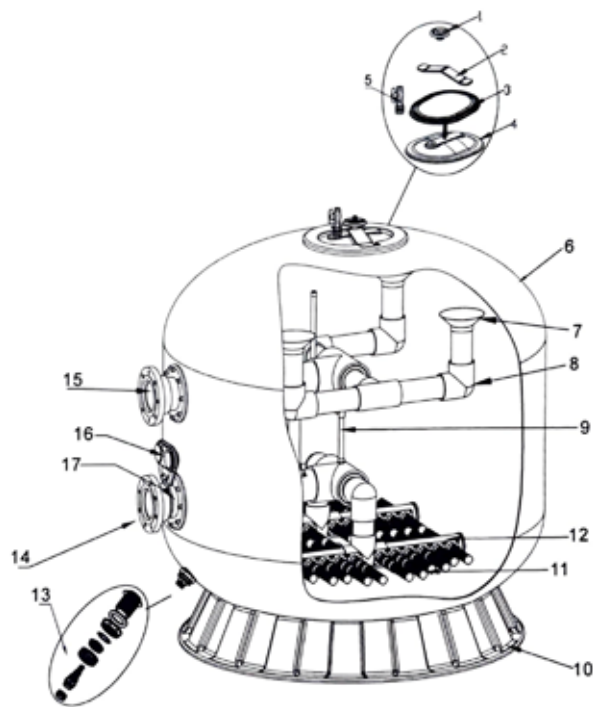


SIDE FILTER Ø400~Ø750 SPARES

Id	Code	Description
1	02-0501	Release air for top cover valve
2	01-0127	Pressure Gauge
3	02-1001	Top Cover
4	02-0901	O'-ring
5	01-0505	Clamp
6	01-0507	Nut Lid
7	01-0112	Shim
8	02-18011	Filter Body Ø450
9	02-18012	Filter Body Ø500
10	02-18013	Filter Body Ø650
11	02-18014	Filter Body Ø700
12	02-0514	Water Distributor
13	02-0513	Top Elbow Assembly
14	02-508	Bottom Elbow Assembly
15	02-0107	Lateral Assembly
16	02-0108	Lateral Ø450~Ø500
17	02-0108-1	Lateral Ø650~Ø700
18	02-0113B	Filter Support Stand Ø450~Ø500
19	02-0110B	Filter Support Stand Ø650~Ø700
20	02-0510	1.5" In/Outlet Union
21	02-05101	Lid
22	02-05102	PP Gasket
23	02-0511	Nut
24	02-0361	Adaptor
25	01-03	Side Mount Multiport Valve 1.5"
26	02-1403	Drain

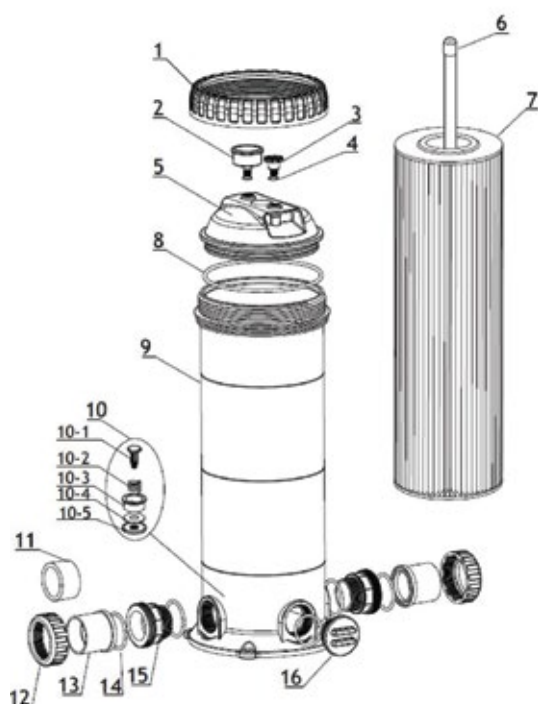
SIDE FILTER Ø800~Ø1400 SPARES

Id	Code	Description
1	02-0501	Release air for top cover valve
2	01-0127	Pressure Gauge
3	02-0502	Ring Lock
4	02-0503	Top Cover
5	02-0504	O'-ring
6	02-06011	Filter Body Ø800
7	02-06012	Filter Body Ø900
8	02-06013	Filter Body Ø1000
9	02-06014	Filter Body Ø1100
10	02-06015	Filter Body Ø1200
11	02-06016	Filter Body Ø1400
12	02-0514	Water Distributor
13	02-0604	Top Elbow Assembly
14	02-0612	2" In/Outlet Union
15	02-0608	Gasket
16	02-0626	PP Gasket
17	02-0606	Nut
18	02-0625	2" Adaptor
19	01-04	Multiport Valve 2"
20	02-0610	Bottom Elbow Assembly
21	02-0624	Transparent Tube
22	02-0205	Lateral Assembly
23	02-0206	Lateral Ø800-Ø900
24	02-0212	Lateral Ø1000- Ø1100
25	02-0350	Lateral Ø1200- Ø1400
26	02-0208	Filter Support Stand Ø800
27	02-02081	Filter Support Stand Ø900
28	02-0209	Filter Support Stand Ø1000
29	02-0210	Filter Support Stand Ø1100- Ø1200
30	02-0211	Filter Support Stand Ø1400
31	02-0111	Drain
32	02-0623	New Drain
33	02-0618	O'-ring
34	02-0374	Air Release Valve
35	02-0619	Lid's Closing Wheel
36	02-0620	Lid's Fixing Bridge
37	02-0621	Polyester-glassfiber Lid



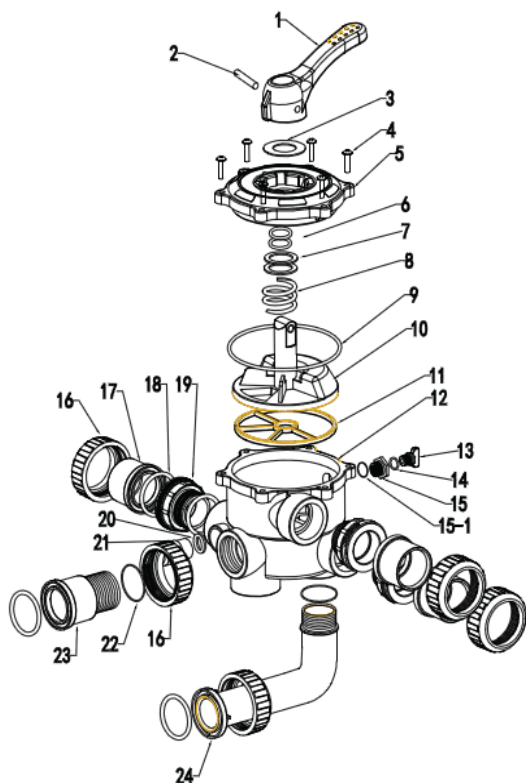
COMMERCIAL FILTER Ø1400~Ø2000 SPARES

Id	Code	Description
1	02-0301	Lid's closing wheel
2	02-0302	Lid's fixing bridge
3	02-0303	O-Ring
4	02-0304	Polyester-glassfiber lid.
5	02-0374	Release air
6	02-03061	Filter body Ø1200
	02-03062	Filter body Ø1400
	02-03063	Filter body Ø1600
	02-03064	Filter body Ø1800
	02-03065	Filter body Ø2000
	02-03066	Filter body Ø2300
	02-03067	Filter body Ø2500
7	02-0308	Top diffuser
8	02-03001	Top Elbow Assembly.
9	02-0316	Vent tube
10	02-0210	Filter Support Stand Ø1200
	02-0211	Filter Support Stand Ø1400
	02-0363	Filter Support Stand Ø1600
	02-0364	Filter Support Stand Ø1800
	02-0365	Filter Support Stand Ø2000
	02-0366	Filter Support Stand Ø2300
	02-0367	Filter Support Stand Ø2500
11	02-03002	Lateral
12	02-0348	Bottom Elbow Assembly
13	02-03003	Drainage hole for sand
14/15	02-03004	Filtered water in/outlet
16	02-03005	Pressure gauge.
	02-03006	Pressure Control manometer panel(for 1.2-3m)
17	02-0327	Transparent tube
	02-0328	Copper fitting
	02-0329	Copper unions



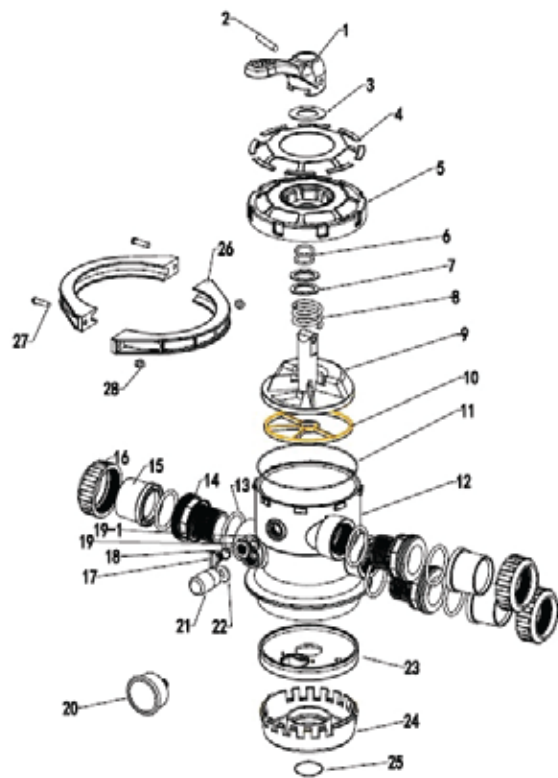
CARTRIDGE FILTER SPARES

Id	Code	Description
1	02-2101	Ring Lock
2	01-0127	Pressure gauge
3	02-2102	Air release valve
4	01-0126	O'ring
5	02-2103	Cartridge filter lid
6	02-2105-1	4" pvc air vent pipe #25
	02-2105-2	4" pvc air vent pipe #50
	02-2105-3	4" pvc air vent pipe #75
	02-2105-4	4" pvc air vent pipe #100
	02-2105-5	4" pvc air vent pipe #150
7	02-2106-1	Cartridge element #25
	02-2106-2	Cartridge element #50
	02-2106-3	Cartridge element #75
	02-2106-4	Cartridge element #100
	02-2106-5	Cartridge element #150
8	02-2107	O'ring for lid
9	02-21-2001	Tank body #25
	02-21-2002	Tank body #50
	02-21-2003	Tank body #75
	02-21-2004	Tank body #100
	02-21-2005	Tank body #150
	02-21-2006	Tank body #200
10	02-2112	Pressure release vlave
10-1	02-2112-1	Screw
10-2	02-2112-2	Spring
10-3	02-2112-3	Valve body
10-4	02-2112-4	Gasket
10-5	02-2112-5	Cover lid
11	02-2113	60*50 reducer
12	01-0210	Nut
13	01-0209	Adaptor
14	01-0207	O'ring
15	01-0208	Bulkhead Fitting
16	02-2114	Plug



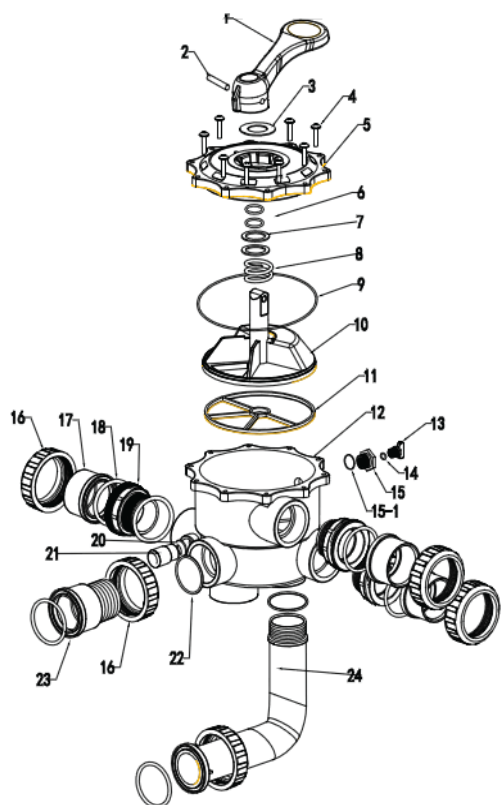
1.5" SIDE MOUNT VALVE SPARES

Item	Code	Description
1	01-0101	Handle
2	01-0104	Pin, handle
3	01-0102	Washer
4	01-0103	Bolt
	01-0112	Nut
5	01-0105	Lid
6	01-0108	O'ring of Rotor
7	01-0106	Washer
8	01-0107	Spring
9	01-0125	O'ring of Lid
10	01-0109	Rotor
11	01-0110	Spider Gasket
12	01-0301	Valve Body
13	01-0119	Plug
14	01-0118	Plug o'ring
15	01-0117	Nut, Plug
15-1	01-0128	O'ring
16	01-0116	Nut
17	01-0115	Adaptor
18	01-0113	O'ring
19	01-0114	Bulkhead Fitting
20	01-0121	Sight glass o'ring
21	01-0120	Sight glass
22	01-0302	O'ring
23	01-0303	Bulkhead Fitting
24	01-0304	Elbow pipe



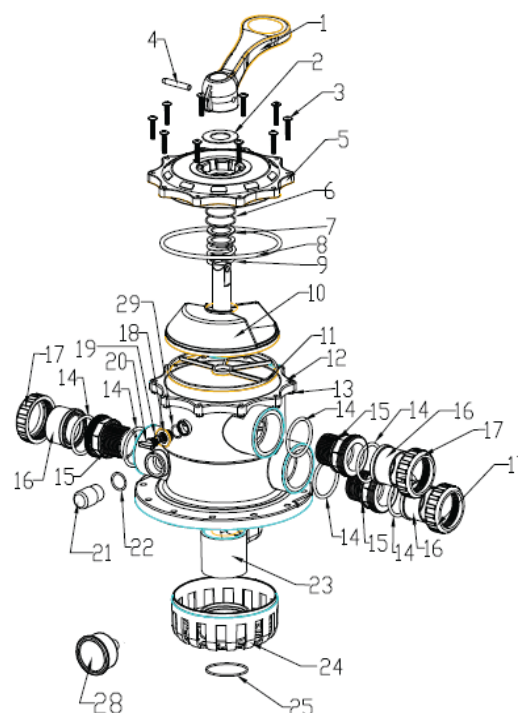
1.5" TOP MOUNT CLAMP TYPE VALVE SPARES

Item	Code	Description
1	01-0101	Handle
2	01-0104	Pin, handle
3	01-0102	Washer
4	01-0501	Decorative cover
5	01-0502	Lid assy
6	01-0108	O'ring of Rotor
7	01-0106	Washer
8	01-0107	Spring
9	01-0109	Rotor
10	01-0110	Spider Gasket
11	01-0128	O'ring of lid
12	01-0503	Valve Body/body-diffuser assy
13	01-0113	O'ring
14	01-0114	Bulkhead Fitting
15	01-0115	Adaptor
16	01-0116	Nut
17	01-0117	Plug
18	01-0118	O'ring
19	01-0117	Nut, Plug
19-1	01-0129	O'ring
20	01-0127	Pressure Gauge
21	01-0120	Sight glass
22	01-0121	Sight glass o'ring
23	01-0122	Rotor
24	01-0123	Over drain, diffuser
25	01-0124	O'ring
26	01-0505	Clamp
27	01-0507	Bolt
28	01-0112	Screw



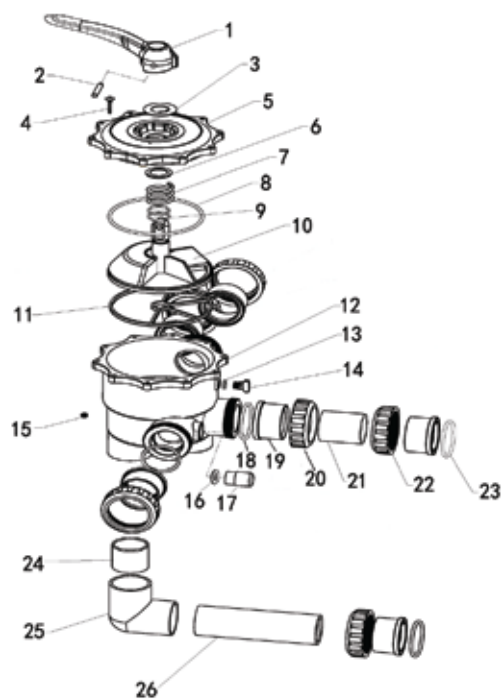
2" SIDE MOUNT VALVE SPARES

Item	Code	Description
1	01-0201	Handle
2	01-0104	Pin, handle
3	01-0102	Washer
4	01-0103	Bolt
	01-0112	Nut
5	01-0202	Lid
6	01-0108	O'ring of Rotor
7	01-0106	Washer
8	01-0107	Spring
9	01-0203	O'ring of Lid
10	01-0204	Rotor
11	01-0205	Spider Gasket
12	01-0401	Valve Body
13	01-0119	Plug
14	01-0118	Plug o'ring
15	01-0117	Nut, Plug
15-1	01-0128	O'ring
16	01-0210	Nut /90°
17	01-0209	Adaptor
18	01-0207	O'ring
19	01-0208	Bulkhead Fitting
20	01-0121	Sight glass o'ring
21	01-0120	Sight glass
22	01-0402	O'ring
23	01-0403	Bulkhead Fitting
24	01-0404	Elbow pipe



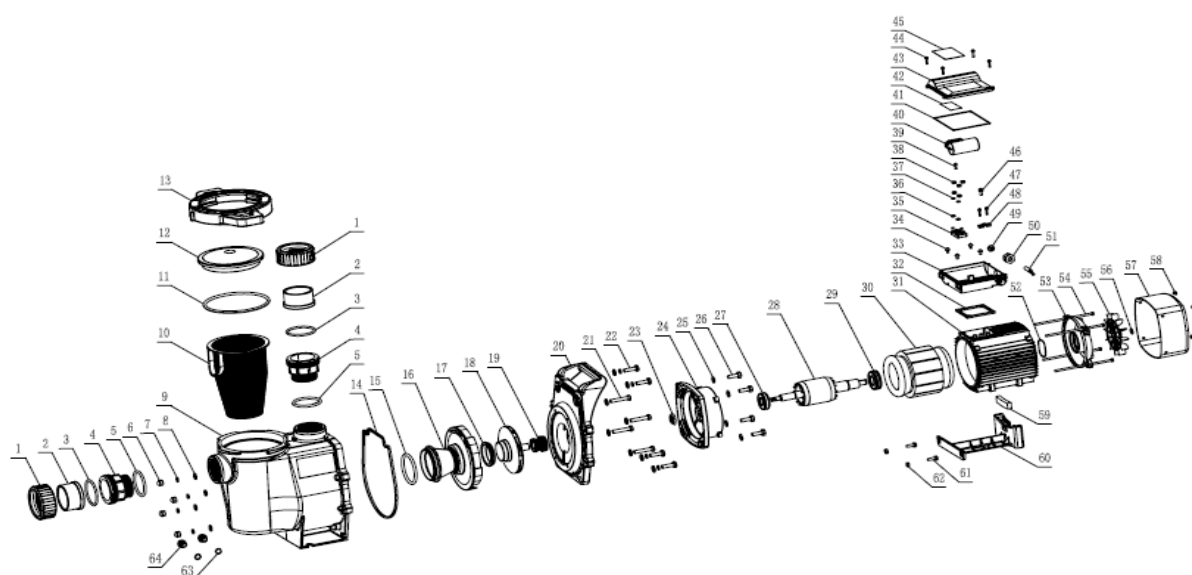
2" TOP MOUNT VALVE SPARES

Item	Code	Description
1	01-0201	Handle
2	01-0102	Washer
3	01-0103	Bolt
4	01-0104	Pin, handle
5	01-0202	Lid
6	01-0108	O'ring of Rotor
7	01-0106	Washer
8	01-0203	O'ring of Lid
9	01-0107	Spring
10	01-0204	Rotor
11	01-0205	Spider Gasket
12	01-0206	Valve Body
13	01-0112	Nut
14	01-0207	O'ring
15	01-0208	Bulkhead Fitting
16	01-0209	Adaptor
17	01-0210	Nut
18	01-0117	Nut, Plug
19	01-0118	Plug O'ring
20	01-0119	Plug
21	01-0120	Sight glass
22	01-0121	Sight glass o'ring
23	01-0211	Rotor
24	01-0212	Over drain, diffuser
25	01-0213	O'ring ,filter
28	01-0127	Pressure gauge
29	01-0129	O'ring



2.5" SIDE MOUNT VALVE SPARES

Item	Code	Description
1	01-0601	Handle
2	01-0602	Pin, handle
3	01-0603	Larger washer
4	01-0614	M6 SS304 bolt
5	01-0604	Top cover
6	01-0606	Small washer
7	01-0607	Spring
8	01-0605	Top cover o-ring
9	01-0608	O-ring
10	01-0609	Rotor
11	01-0610	Spider gasket
12	01-0616	Valve body
13	01-0611	O-ring for plug
14	01-0612	Plug
15	01-0613	Nut for M6 bolt
16	01-0620	Washer
17	01-0621	Sight glass washer
18	01-0519	2.5"O'ring
19	01-0518	2.5"Adaptor
20	01-0517	2.5"Nut
21	01-0615	PVC pipe 80mm
22	02-0709	Connection Nut
23	02-0707	O'ring
24	01-0622	PVC pipe 80mm/250mm
25	01-0623	2.5"Elbow
26	01-0624	PVC pipe 255mm



QRR SERIES PUMP SPARES

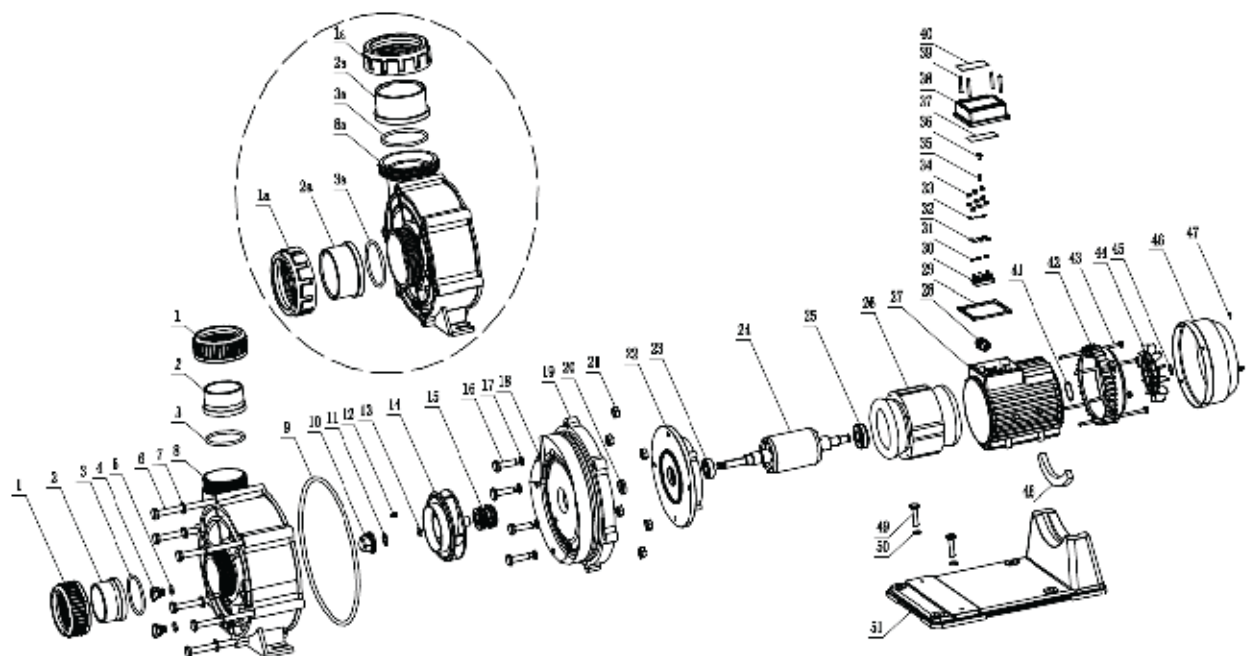
Sl No	Description	Code	Specification	Material
1	Tie in nut	A31020001	G2	PVC
2	Tie in	A26090009	Ø60.3	PVC
3	O Ring	F02010093	d62 x 4.5	NBR
4	Transition Union	A26090052	Ø60	PVC
5	O Ring	F02010077	d 54 x 3,5	NBR
6	Acorn nut	J43010007	M8	SS 304
7	Spring Washer	J51010015	Ø8	SS304
8	Washer	J53010014	Ø8	SS304
9	Pump casing	A01210137		P+GF30
10	Filter	A34080038		PP
11	O Ring	F02010110	d 147 X 6	NBR
12	Transparent Cover	A13120013		PC
13	Gland Cover of transparent cover	A13170012		PC + GF 25
14	Gasket	F03010109		NBR
15	O Ring	F02010078	d 85 x3.5	NBR
16	Guide van assembly	A09150013		PP + GF30
17	Impeller Activity ring	A25060002		SANTOPRENE
18	Impeller*			PA66+GF31
19	Mechanical Seal	F01160132	LX-16	CARBON/CERAMIC/NBR
20	Pump Cover	A02220110		PP+GF30
21	Hexagon Screw	J21020047	M45	SS304
22	Hexagon Screw	J21020043	M35	SS304
23	Shaft Seal ring	F04010005	Ø20	NBR
24	Front Cover			ADC12
25	Washer	J53010017	Ø10	SS201
26	Hexagon Bolt	J21020050	M10 X20	SS201
27	Bearing	J11010008	6204-ZZ/C3	
28	Rotor Assembly	B08200213		
29	Bearing	J11010006	6203-ZZ/C3	
30	Stator Assembly + 31. Motor Base	B01200161		

QRR SERIES PUMP SPARES

Sl no	Description	Code	Specification	Material
32	Terminal Box Pad	F03010009		NBR
33	Bottom Part Of Terminal Box	N07000026		FLAME RESISTANT ABS
34	Cross Recessed Pan Head Screw And Washer Assemblies	J71050004	M4 x10	A3
35	Connection Pole	E10000006		A3 MELAMINE A3
36	Serrated Lock washer External Teeth	J57010002	Ø4	A3
37	Washer	J53010004	Ø5	A3
38	Hexgonal Bolt	J41010002	M4	A3
39	Cross Recessed Pan Head Tapping Screw	J32010008		A3
40	Capacitor*			
41	O Ring	F02010017	132 X 2	NBR
42	Wiring Diagram	H30000010		STICKER
43	Upper Part Of Terminal Box			FLAME RESISTANT ABS
44	Cross Recessed Pan Head Tapping Screw	J32010021	ST3.5*16(F)	SS201
45	Name Plate	H10413595		STICKER
46	Cross Recessed Pan Head Screw And Washer Assemblies	J71050004	M5 X 2	S201
47	Cross Recessed Pan Head Tapping Screw	J32010008	ST3.5 x12	A3
48	Cable Pressing Block			NBR
49	Nut Plug For Terminal Box			
50	Terminal Box NUT			FLAME RESISTANT ABS
51	Cable			
52	The Three Wave	J52010005	D52	65Mn
53	Back Cover	B14010045		ADC12
54	Hexgonal Bolt		M5x185	A3
55	Fan*			PP
56	External Circlip		D14	65Mn
57	Fan Cover*			ABS+PC
58	Cross Recessed Pan Head Screw And Washer Assemblies	J71040007	M4 X8	SS304
59	Plastic Strip	G05020033		NBR
60	Base	G01170021		PP+GF30
61	Combination Of Hexgon Head Screw And Washer	J71040049	M6 x20	SS304
62	Hexgonal Bolt		M6	SS305
63	O Ring	F02010021	d11.2 x2.4	NBR
64	Drainage Plug	A29210004		PA66 GF30

*For codes, contact Aqvastar office

QRC / QRCC / CCU SERIES PUMP SPARES



Sl No	Description	Code	Specification	Material
1	Tie-in Nut		G2¾"	PVC
1a	Tie-in Nut	A31020016	3"	PVC
2	Tie-in		Ø60.3/Ø63	PVC
2a	Tie-in	A26090032	Ø75/Ø90	PVC
3	O-Ring		d62x4.5	NBR
3a	O-Ring	F02010108	d94x5.7	NBR
4	Drainage Plug	A29070003		PA66 - GF
5	O-Ring	F02010021	d11.2x2.4	NBR
6	Hexagon Bolt		M10 x 130	SS304
7	Washer		Ø 10	SS304
8	Pump Casing		G2¾"	PP - GF30
8a	Pump Casing	A01210082	G4½"	PP - GF31
9	O-Ring	F02010111	d208x6	NBR
10	Impeller Nut	A31110005	M12	H59
11	Spring Pad		d12	SS304
12	O-Ring		A4x12	SS304
13	O-Ring		D25 x2.4	NBR
14	Impeller*			PA66-GF30
15	Mechanical Seal	F01200013	SB-20/LV2PF	CARBON / CERAMIC/NBR
16	Hexagon bolt		M8x 35	SS304
17	Seal Gasket			PA6
18	O-Ring		d6x2	NBR
19	Pump Cover	A02220056		PP'-GF30
20	Seal Gasket		d20	NBR
21	TYPE 1 Hexagonal Nut		M10	SS304

QRC / QRCC / CCU SERIES PUMP SPARES

SI No	Description	Code	Specification	Material
22	Front Cover			ADC12
23	Bearing		6205	
24	Rotor Assembling			
25	Bearing		AC6204	
26	Stator Assembly			
27	Engine base			ADC12
28	Cable Head		M18 x1.5	Flame resistant PA6
29	Terminal Box Pad			NBR
30	Connection Pole			Melamine+A3
31	Serrated Lock Washer External Teeth		Ø 4	A3
32	Connection Strip			H62
33	Washer		Ø 4	A3
34	Type 1 Hexagonal Nut		M4	A3
35	Cross Recessed Pan Head Tapping Screw		M4x 12	A3
36	Cross Recessed Pan Screw ,Spring Washer,Plain Washer Assemblies		M5x 12	SS304
37	Wiring Diagram			Sticker
38	Terminal box			Flame Resistant ABS
39	Cross Recessed Pan Head Screw		M4x30	SS304
40	Name Plate			Sticker
41	The Three Wave		D47	65Mn
42	Back Cover			HT200
43	Hexgonal Bolt		M5x180	A3
44	Fan	B15010015		PP
45	Shaft spring pad	J56020011	d14	65Mn
46	Fan Cover	B17010025		ABS+PC
47	Cross Recessed Pan head Screw and Washer Assemblies		M4x8	SS304
48	Block Gine	G05020011		NBR
49	Hexgonal Bolt		M8x16	SS304
50	Washer		Ø 8	SS304
51	Bracket	G01030008		PA6+GF30

*For codes, contact Aqvastar office

PREFILTER SPARES

SI No	Description
1	Transparent lid
2	Union Nut
3	Adaptor
4	Nob
5	O ring for transparent lid
6	O ring for Adaptor

HPD / HPC SERIES HEAT PUMP SPARES

Suitable model	Code	Description
HPD5.5	010301130204	Compressor
	010202000208	Fan motor--YDK-25M-6H
	010603010003	Compressor capacitor--35uf
	010603030004	Fan capacitor--2uf/450v
	010404020201	Fan blade
	010804070007	4 way valve
	010804000008	Coil of 4 way valve-18B-1000
HPD12.5	010301130303	Compressor--PA330X3CS-4UM1
	010202001311	Fan motor--YDK-50-6H
	010804070001+010804000008	4 way valve+ coil
	010804070005+010804000008	4 way valve+ coil (SANHUA)
	010603010010	Compressor capacitor-60UF/450V
	010404021303	Fan blade
	010603030014	Fan capacitor--4UF/450V
	010606001310	AC contactor--TXAC1-25/220V
HPD17	010301130411	Compressor--ZW51KWP-PFZ
	010606001307	AC Contactor--CJX9B-25S/D
	010602030504	Starter
	010202001401	Fan motor--YDK-90-6
	010603010018	Compressor capacitor
	010404021302	Fan blade
	010603030019	Fan capacitor
	010804070003	4 way valve
	010804000008	Coil of 4 way valve-18B-1000
HPD26/31	010804070003+010804000008	4 way valve+ coil
	010301140601	Compressor--C-SBN453H8D
	010202001401	Fan motor--YDK-90-6
	010404020502	Fan blade
	010603030019	Fan capacitor
	010600016112	Sensor 4-water inlet temp
HPC35/45/50	010202001506	Fan motor
	10404026101	Fan blade
	010301140601	compressor
	010301140603	Copelnd compressor
	010600020035	Air switch
	010606001507	AC contactor
	010606006001	AC contactor
	010804000008	coil of 4 way valve 1
	010804000021	coil of 4 way valve 2
	010804070003	4 way valve
	010603030020	Fan capacitor

HPD / HPC SERIES HEAT PUMP SPARES

Suitable model	Code	Description
HPC70/90	10301140601	compressor
	010804070003	4 way valve
	010804000022	coil of 4 way valve
	010804000021	coil of 4 way valve
	010603030018	fan capacitor
	011200000015	water flow switch(2m line length)
	010600016112	5k Coil sensor (2m line length)
	10600016188	5k ambient sensor (3m line length)
	10600016197	50k inlet/outlet temp sensor 3m line length)
	010600020035	Air switch
	010606001507	AC contactor 1
	010202035601	Fan motor 1
	010202035602	Fan motor 2
	10504021502	Fan blade
	010602031505	phase protect board
Same from 5kw to 26kw	011200000013	Water flow switch (6")
All model same	010601030105	SWS LCD controller
All model same	010602020096	sws PCB
	10601030135	wifi controller for 5.3 & 12.5 kw
	10601030136	wifi controller for 17 to 70 kw
	10602020128	wifi pcb for 26 kw
	10602020126	wifi pcb for 45 - 70 kw
	10602020124	wifi pcb for 5.5 - 12 kw
	10600070008	Power PCB
	10605000038	TRANSFORMER IN PCB
All model same	010900000089/010900000171	R410a /r32Pressure gauge
All model same	10401990017	Water proof cover
All model same	10401992312	Drain hole φ20
Same from 5-26kw	10600016101	5k coil sensor (1.2m length)
Same from 5kw to 26kw	10600016103	50k inlet/outlet temp sensor (1.2m length)
Same from 5kw to 26kw	10600010035	5k ambient sensor (1.2m length)
Same from 35kw to 55kw	10600016112	5k Coil sensor (2m line length)
Same from 35kw to 55kw	10600016110	5k ambient sensor (2m line length)
Same from 35kw to 55kw	10600016114	50k inlet/outlet temp sensor (2m line length)
Same from 5kw to 26kw	10600040016	low pressure switch
same from 5kw to 26kw	10600040015	high pressuer switch
All model same	10900000170	black rubber ring
For 70 kw	11100000321	water connections φ75
For 35kw to 55 kw	11100000320	water connections φ63
For 5 kw to 26 kw	11500000010	water connections φ50 blue
	10600016116	Sensor
	10600016134	Sensor
	10600016205	Sensor
	10600016206	Sensor
	10602030506	Sensor
	10606001516	Sensor
	10600016117	Sensor
	10600016105	Sensor
	10600016152	Sensor
	10600016188	Sensor
	10600016115	Sensor T63
	10804000033	Coil of 4 way valve
	10804000035	Coil of 4 way valve