



2016 International Catalogue



Fountains | Swimming Pools | Fire Features

Contact information

Aquashi United Kingdom

Unit 6, Eagle Trading Estate,
Brooker's Road, Billingshurst,
West Sussex, RH14 9RZ
Tel: +44 140 378 2279



Aquashi U.A.E

1704, Palace Tower
Silicon Oasis , Dubai,
UAE, PO Box: 232976
Tel: + 971 4 3208777
Fax:+ 971 4 3202244

For all general enquiries please email:

sales@aquashi.co.uk

Visit our website for the most up to date information and news.

www.aquashi.co.uk



stamped, engraved
or embossed

The Aquashi symbol is our manufacturers seal of approval. A sign of quality wherever you are in the world.

About us

Aquashi specialises in the design, manufacture, and supply of high quality fountain, swimming pool products and beautiful fire and water features for residential and commercial applications.

In 2010, Aquashi designed and created its own range of high quality products and equipment, utilising the most up to date technology in the market. We have offices in Sussex, UK that caters for the European and American Markets and in Dubai, UAE that caters for the Middle Eastern and African markets.

Our products have been designed for optimum performance, reliability and durability with the seal of Aquashi that represents the mark of quality.

We offer design services to architects, engineers and developers for the design and development of fountains, fire features, swimming pools and water parks. Our aim is to create innovative and sustainable water features utilising our technologically advanced line of products.

We also offer programming and start up assistance in particular for sequenced fountain features. Our experienced engineers program the sequenced nozzles and LED RGB lighting to create numerous patterns, shapes and lighting effects, resulting in a unique, exciting and memorable feature.

Musical fountains and fountain choreography is our speciality. Our highly experienced choreographers work closely with the fountain programmers to provide you with a spectacular musical show of nozzle and lighting effects in harmony with the music.

The success of Aquashi has resulted in the supply and installation of our products in more than 30 countries worldwide. We pride ourselves on providing quality products and services, available and accessible to clients worldwide.



OMEGA

EMIRATES CO

جسر آل مكتوم
Al Maktoum Bridge

27
0648



Welcome Pavilion, Ferrari World - Abu Dhabi

Contents

Services	8
Fountain Nozzles and Accessories	13
Lighting and Accessories	51
Controls	89
Drains and Inlets	99
Water Purification System	117
Water Screens	125
Floating Fountains and Aeration Systems	131
Fog System	135
Fire and Water Bowls	141
Bioethanol Fire Features	161
Water Feature Pots	175
Pedestals	179
Accessories	185
Engineering Data	189

Services

Conceptual Designs

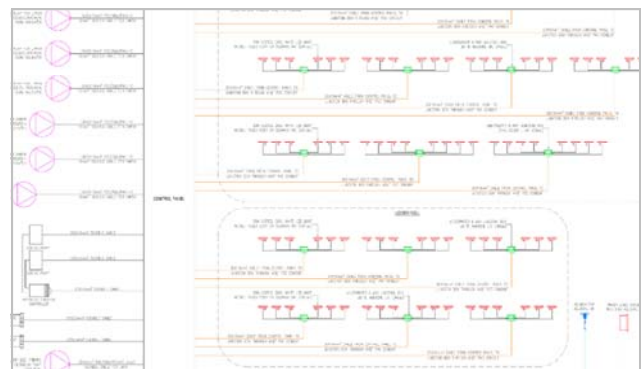
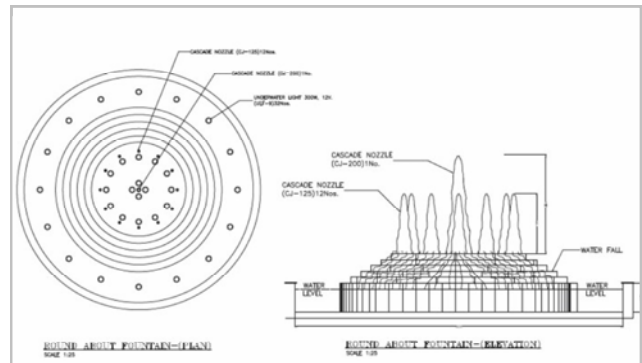
From basic water features to interactive and musical fountains, Aquashi can help turn a clients dream into a reality through our design process. The first step is to discuss the clients requirements, understanding what type of feature they want, where it will be located and what is the desired result. Factors such as sound, location, interaction, desirable effects, colour and finally budget, will determine the design of the water feature. The concept can be considered the most important part of the design process as it will be a reference point for the design down to the installation and commissioning. Once an understanding of the above is established, plan and section drawings are made as various options. Supporting imagery from our extensive library of pictures and videos can help bring a realisation to the concept, while autocad drawings illustrate the scale and details of the water features. To bring the water feature to life, 3D renders are made enabling the fountain to be viewed in a more realistic environment. Animations can be created showing how the fountain will perform.



Technical Designs

The next stage of the design is to incorporate the architectural details, process flow diagrams and component specifications. We work closely with the installer or MEP specialist to ensure the technical design fits in harmony with the surrounding area. A selection of equipment is made based on the approved concept and budget requirements. This includes type and quantity of equipment including type of water feature treatment system. Mechanical & Electrical schematic drawings detail the equipment selections and feature design with calculations and loads.

Aquashi offers design assistance to consultants and architects. Contact us for more information.



Services

R & D testing facilities

We believe innovation is important when creating beautiful water features which is why our testing facility allows our technicians to continually create and test custom products and effects.

All customized products are tested prior to shipment to ensure they perform as intended. Readings are taken to measure flow and pressure to ensure an appropriate pump has been selected. Our LED lights are run continuously with temperature readings evaluated.

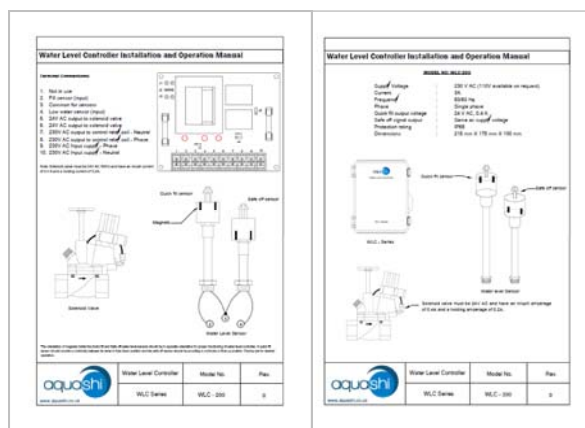
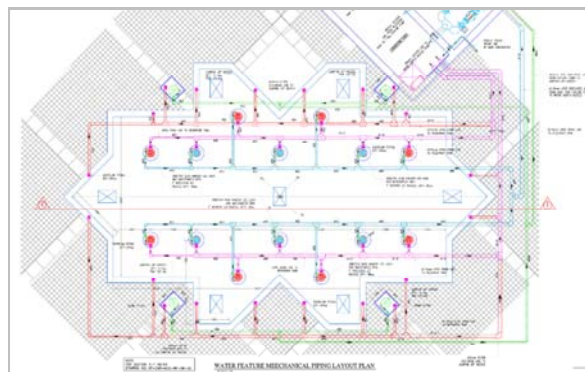
As part of our quality policy we are constantly testing, developing and improving our product range to ensure the highest standards are met.



Technical Assistance

All our products come with technical documentation for supply and installation. Our engineers are on hand to assist you with any questions or issues that may arise during or after construction. If any problems were to arise with one of our products, our after sales support team will be ready to resolve it as quickly as possible.

We also offer guidance in water feature construction and assistance in water management. If you are designing a water feature or swimming pool we would be happy to review your drawings to ensure our equipment is correctly incorporated into the design with accurate calculations and design considerations taken into account.



Services

Manufacture and supply of products

Aquashi produces and supplies a wide range of fountain and swimming pool equipment, from nozzles and LED lighting, to pool fittings, fire features and floating fountains. Our products are manufactured in accordance with our strict manufacturing guidelines and stringent quality control procedures. These are implemented throughout our design, production and supply stages. All our stainless steel products are tested by a 3rd party laboratory. Our lighting and electrical products are CE approved.

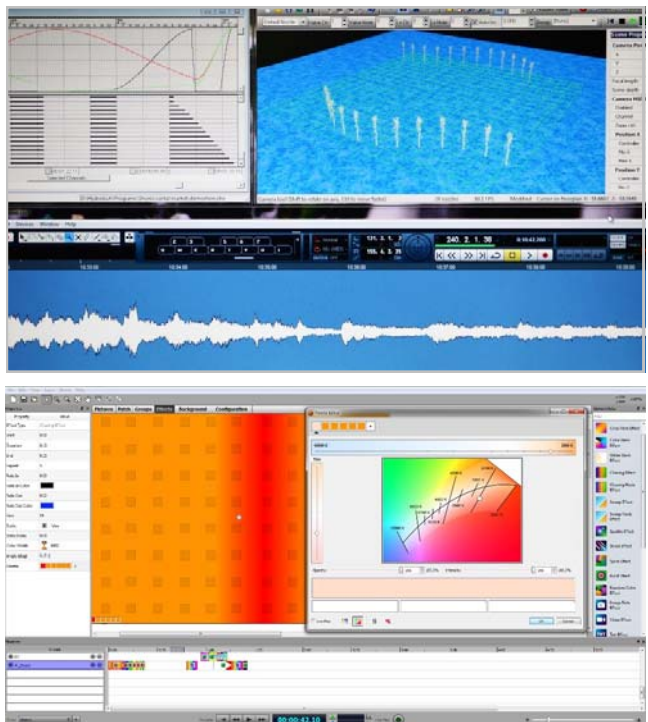
If it's not in our catalogue then contact us with your requirement. We can custom manufacture to your specification or design.



Programming

We offer programming services for sequenced and/ or musical fountains. Sequenced water jets, RGB lighting, fire features and variable frequency drives for pumps can be controlled to create spectacular fountain shows. Our programmers are well versed with common brands of PLC's and show controllers. We will design and build animation control panels based on your project requirements and program the water feature accordingly.

For existing water features we can re-program outdated fountain shows to bring new life to the fountain.

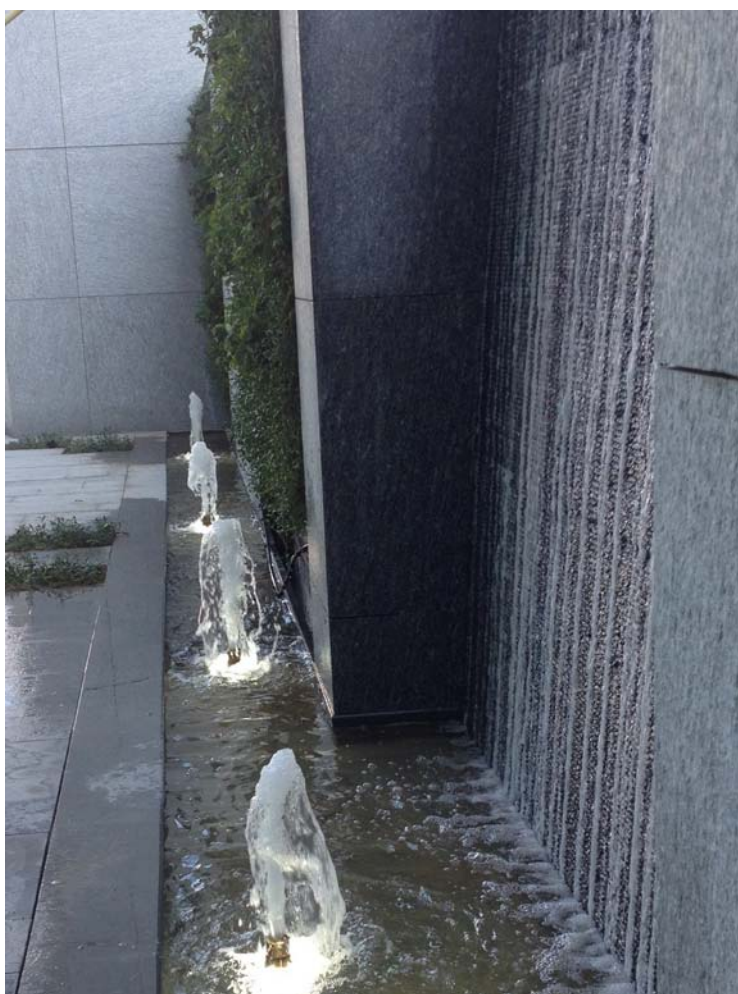
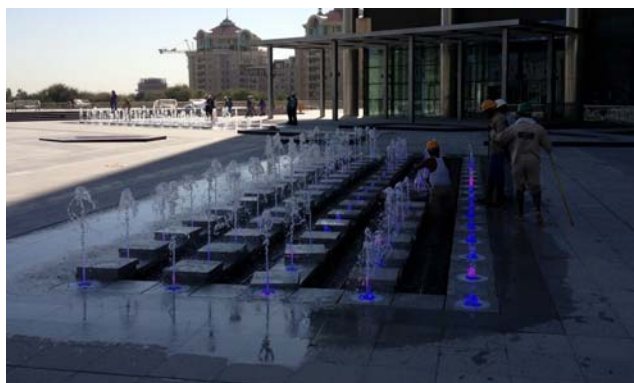


Services

Testing and Commissioning

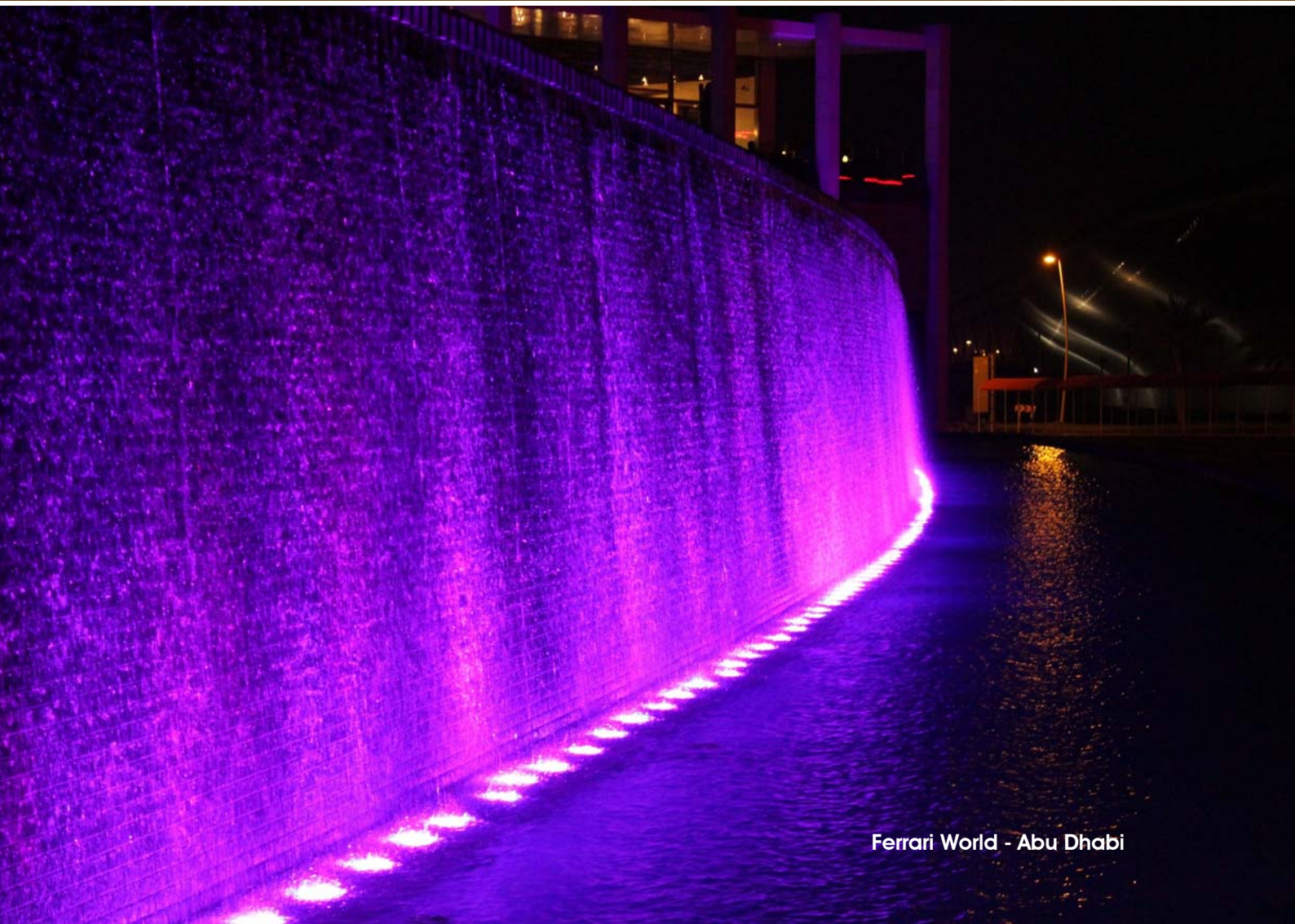
We offer testing and commissioning services to fountain installers for sequenced or musical fountain systems. Programming can be done off site while testing and final adjustments will be completed on location.

Experienced Aquashi technicians will enable you to test and commission the fountain quickly and successfully. We are happy to travel globally to commission your fountain.





LED lighting, Trade Centre Roundabout - Dubai



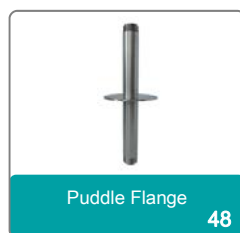
Ferrari World - Abu Dhabi

Fountain Nozzles & Accessories

Fountain Nozzles



Accessories



Fountain Nozzles & Accessories

Aquashi fountain nozzles and accessories are made from high grade materials chosen to ensure durability and superior quality. We have designed them for ease of use, rugged construction and ultimately to produce the aesthetic effect. Aquashi can also customise nozzles for particular designs or specifications. All connections are BSP as standard. NPT available on request.



Fountain Nozzles & Accessories

Fountain Nozzles

Cascade Jet - CJ Series	16
Aerator Jet Independent - AJI Series	20
Aerator Jet Dependent - AJ Series	21
Precision Jet Small- PJS Series	22
Precision Jet Large- PJJ Series	23
Foam Jet - FJI Series	24
Column Stream Jet - CSJ Series	25
Multi Jet Nozzle - MJN-150	26
Foam Bubbler Jet - FBJ Series	27
Bell Jet - BL Series	28
Dandelion Sphere - DS Series	29
Dandelion Hemisphere - DHS Series	30
Finger Jet - FIJ Series	31
Fan Jet - FNJ Series	32
Single Stream Jet - SSJ-100	33
Tri stream Jet - TSJ-100	34
Aqua Switch - SWJ-AJI	35
Aqua Switch - SWJ-PJS	35
Pop Jet - POP-100.....	38
Laminar Jet - LJ Series	40
Jumping Jet - JJ Series	42
Rain Curtain Nozzle - RC Series	44

Accessories

Screen Discharge Filter - SF Series	46
Swivel Ball Connector - SWB Series	47
Flange Connector - SWF Series	47
Puddle Flange - PF Series	48
Splash Mat	49

Cascade Jet - CJ Series

Function:

The Cascade Jet produces a massive geyser effect utilizing aerated water in a natural conical shape. This full-bodied effect is ideal for solitary or central water displays. Grouped together cascades form mountains of frothy white water. Cascades are highly visible from a distance and their distinct shape resists wind distortion. **Water level dependent.**

Specifications:

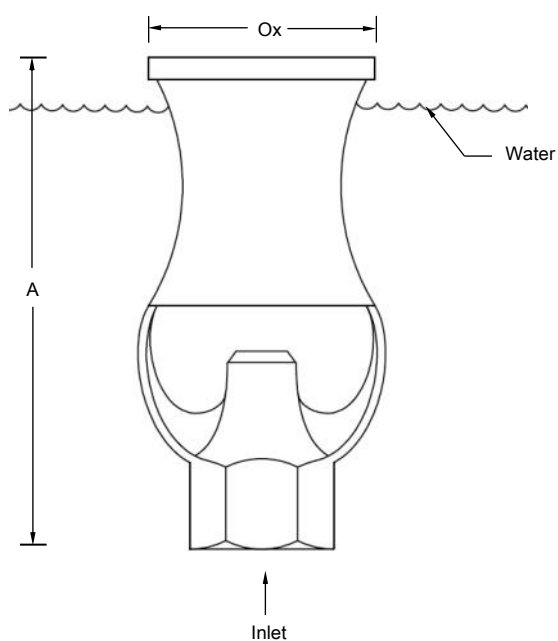
Material: Machined Cast Bronze
 Connection type: Female Thread



The cascade nozzle draws water from the surrounding pool, hence it is water level dependent and any variation in water level will produce a change in spray height and visual appearance. Care should be taken when utilizing Cascade nozzles in very shallow or small pools, and when centred in round pools. Surge action may produce large waves which can affect the performance of the nozzle.



Cascade Jet - CJ Series



Model No.	Inlet (BSP)	Nozzle Height A (mm)	Orifice Ox (mm)	W	Spray Height (m)	0.5	1	2	3	4	5	6	8	10	12
						LPM	Head (m)	LPM	Head (m)	LPM	Head (m)	LPM	Head (m)	LPM	Head (m)
CJ-050	1/2"	109	40	25	LPM	25	34	51							
					Head (m)	5	9	17							
CJ-075	3/4"	133	47	30	LPM	45	56	79	101	123	145	168			
					Head (m)	4	8	16	25	33	41	49			
CJ-125	1 1/4"	204	70	40	LPM	64	79	108	138	168	198	227			
					Head (m)	3	6	11	17	22	28	33			
CJ-150	1 1/2"	229	75	50	LPM	97	113	145	179	211	244	276			
					Head (m)	3	5	9	13	17	21	25			
CJ-200	2"	274	99	70	LPM	141	160	198	235	273	311	348	386	424	
					Head (m)	2	4	7	11	14	18	21	24	28	
CJ-300	3"	362	139	90	LPM	270	308	383	459	535	610	686	761	837	913
					Head (m)	6	8	11	15	19	22	26	29	33	36





Aerator Jet Independent- AJI Series

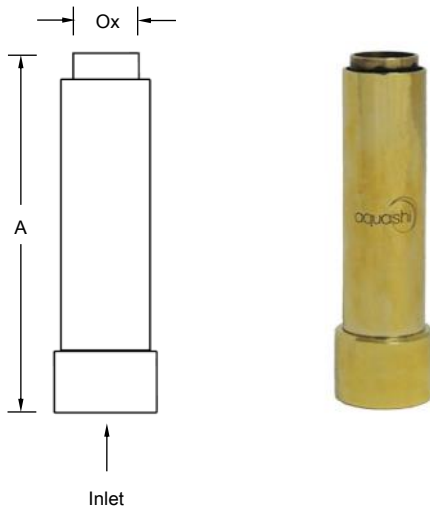
Function:

This Aerating Jet produces a column of frothy white water, capped with a pulsating “crown”. Aerators can be clustered to produce massive columns of water. Ideal for lake applications, shallow and small to medium size pools. Spectacular when illuminated at night.

Water level independent.

Specifications:

Material: Brass
 Connection type: Female thread



Model No.	Inlet (BSP)	Nozzle Height, A (mm)	Orifice Ox (mm)	Spray Height (m)	0.5	1	1.5	2	2.5	3	3.5
AJI-100	1"	147	25	LPM	36.2	47	56.8	64.5	72.2	79	
				Head (m)	0.7	2	3.4	4.9	6.1	7.6	
AJI-150	1 1/2"	210	40	LPM		49.5	58.3	66	72.6	80.3	
				Head (m)		2	2.4	3.4	4.2	5	
AJI-200	2"	230	50	LPM			110	114.3	159.5	168.3	168.3
				Head (m)			3.3	3.9	5.1	5.7	7

Aerator Jet Dependent- AJ Series

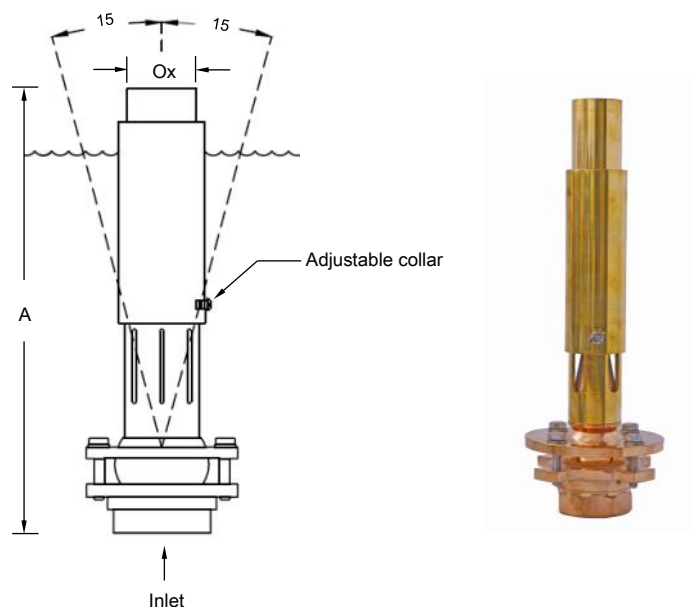
Function:

This Aerator jet produces a uniform column of highly aerated frothy white water. An integral swivel base permits angled installations of up to 15 degrees. The adjustable collar controls the air to water ratio. Beautiful when illuminated at night. **Water level dependent.**



Specifications:

Material: Cast Bronze, Brass and Copper
 Connection type: Female thread



Model No.	Inlet (BSP)	Nozzle Height A (mm)	W (mm)	Orifice Ox (mm)	Spray Height (m)	1	2	3	4	6	8	10	12	15
AJ-100	1"	252	38	32	LPM	30	40	50	58					
					Head (m)	4	8.5	11	14.5					
AJ-150	1 1/2"	343	50	52	LPM	40	60	80	88	110	125			
					Head (m)	3.2	5.5	7.2	8.8	12.5	16			
AJ-200	2"	394	50	65	LPM		125	150	170	225	240	260	280	300
					Head (m)		4	6	7.5	10.5	13	16	18.5	23
AJ-250	2 1/2"	455	60	76	LPM		220	270	325	390	450	525	575	640
					Head (m)		8.8	11	12	15	18	21	24	29
AJ-300	3"	547	76	90	LPM		325	390	425	525	585	630	680	765
					Head (m)		8.2	8.8	11	15	18.5	23	27	32

Precision Jet Small - PJS Series

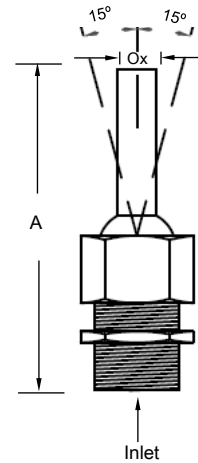
Function:

The precision jet produces a solid, non-aerated clear stream of water. It is an excellent choice for accenting sculpture, producing archway patterns or when mounted on spray rings or manifolds, creating distinct water features of precise definition and shape. **Water level independent.**



Specifications:

Material: Brass with integral swivel connection
 Connection type: Male Thread



Model no.	Inlet (BSP)	Nozzle Height A (mm)	Orifice Ox (mm)	Spray Height (m)	0.5	1	1.5	2	2.5	3	4	5	6
PJS-012	1/8"	43	3	LPM	0.7	1.2	2	2.8	3.7	4.3			
				Head (m)	0.9	1.8	2.5	3	3.8	4.7			
PJS-025	1/4"	53	4	LPM	1.5	3	5	5.6	6.5	7.2			
				Head (m)	1	1.7	3.1	4.2	5	5.1			
PJS-037	3/8"	53	4.75	LPM	4	6	7	8	9	10	12		
				Head (m)	1	1.7	2.3	3	3.7	4.5	5.6		
PJS-050	1/2"	87	6.5	LPM	8	11	14	15	18	20	25	30	
				Head (m)	0.8	1.5	2.2	2.9	3.6	4.2	5.3	6.5	
PJS-075	3/4"	91	9	LPM	15	20	25	30	32	35	38	48	
				Head (m)	0.9	1.5	2.1	3	3.5	4.5	5.5	6.5	
PJS-100	1"	114	14	LPM	35	45	55	60	70	75	95	115	
				Head (m)	1	1.5	2.2	2.8	3.5	4.6	6	7.6	
PJS-150	1 1/2"	165	20	LPM	60	88	110	135	150	155	185	210	240
				Head (m)	0.8	1.2	1.8	2.5	3	4	5.1	6.9	8

Precision Jet Large - PJJ Series

Function:

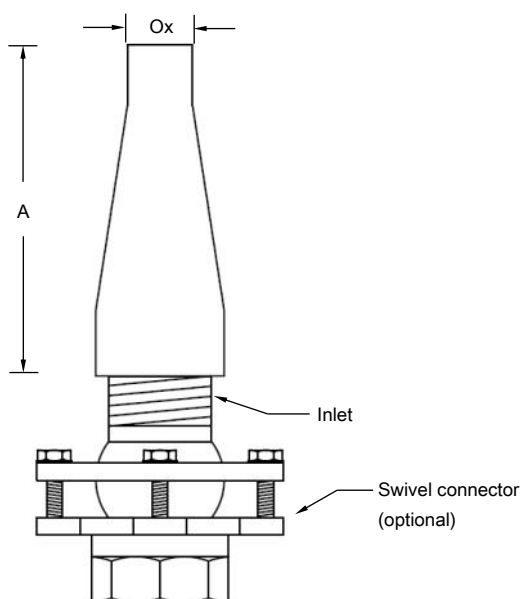
The large Precision Jet produces a solid, non-aerated stream of water. It is ideal for applications requiring extremely high spray heights and is capable of heights over 100 metres. When clustered, Precision Jets produce massive columns of water.

Water level independent.

Specifications:

Material: Cast Bronze and Machined Brass

Connection type: Female thread



PJJ-200



PJJ-150

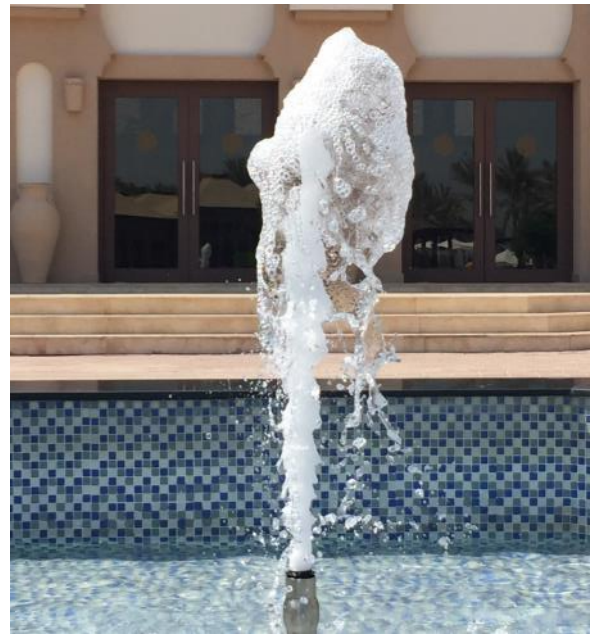
Model no.	Inlet (BSP)	Nozzle Height A (mm)	Orifice Ox (mm)	Spray Height (m)	2	3	4	6	8	10	15	20	30
PJJ-150	1 1/2"	150	19	Flow (LPM)	96	115	140	196	240	260			
				Head (m)	2.5	4	5.5	7.5	10	12.5			
PJJ-200	2"	205	30	Flow (LPM)	265	320	388	535	680	790	895		
				Head (m)	2.8	4.3	5.6	7.5	10	12.5	19		
PJJ-300	3"	256	45	Flow (LPM)	525	625	810	1150	1375	1535	1785	1995	2435
				Head (m)	3	4.5	5.8	7.6	10.5	12.8	19	25	38
PJJ-400	4"	353	56	Flow (LPM)	795	1015	1250	1825	2195	2450	2875	3250	4030
				Head (m)	3	4.6	6	7.5	10.5	12.75	19	25	38

Foam Jet - FJI Series

Function:

The Foam Jet produces a smoothly flowing aerated column of water. The relatively slow and smooth effect that the nozzle produces is suitable for indoor and outdoor water features.

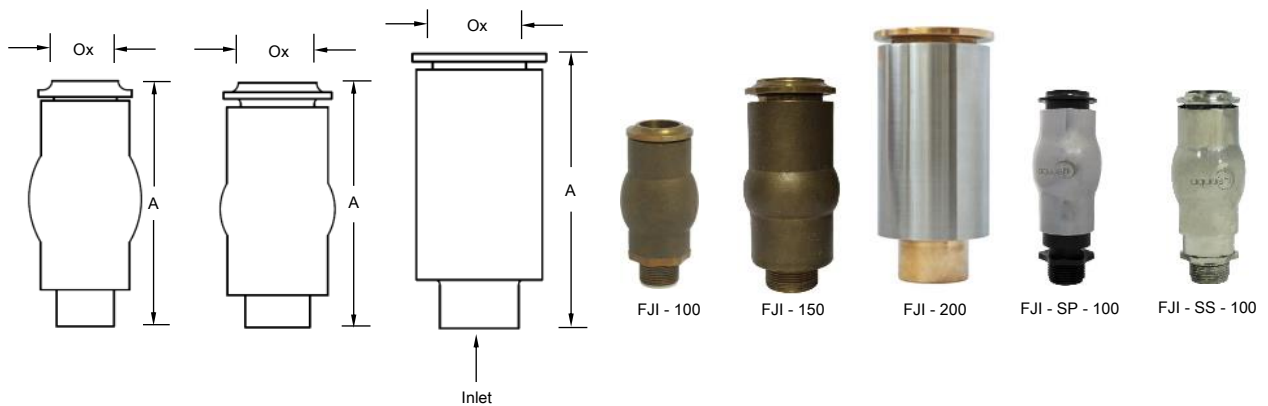
Water level independent.



Specifications:

Material: Cast Bronze and Brass, Stainless steel, Stainless steel & Plastic

Connection type: Male Thread / Female Thread



Model No.	Material	Inlet (BSP)	Nozzle Height A (mm)	Orifice Ox (mm)	Spray Height (m)	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
						LPM	Head (m)	LPM	Head (m)	LPM	Head (m)	LPM	Head (m)	LPM	Head (m)
FJI-100	Cast Bronze & Brass	1"	142	35	LPM	78	100	118	133	154	166				
					Head (m)	2.6	5.2	7.4	8.5	11	13				
FJI-150	Cast Bronze & Brass	1 1/2"	182	50	LPM	103	133	159	179	198	216	233	250	260	268
					Head (m)	1.2	2.5	3.9	5.1	6.4	7.7	9.2	10.7	11.2	12.7
FJI-200	Cast Bronze, Brass & SS	2"	249	70	LPM	205	267	313	345	377	411	428	468	498	529
					Head (m)	2	4.2	5.7	7.4	8.8	10.7	12.1	14	15.5	17.5

Model No.	Material	Inlet (BSP)	Nozzle Height A (mm)	Orifice Ox (mm)	Spray Height (m)	0.25	0.5	1	1.5	2	2.5	3
						LPM	Head (m)	LPM	Head (m)	LPM	Head (m)	LPM
FJI-SS-100	Stainless Steel	1"	160	32	LPM	45	69	96	121	137	145	157
					Head (m)	1.8	2.6	5.3	7.7	9.9	11.9	13.4
FJI-SP-100	Stainless Steel, Plastic	1"	160	32	LPM	40	67	90	108	125	136	145
					Head (m)	1.7	2.3	4.3	6.4	8.6	10.3	12.1

Column Stream Jet - CSJ Series

Function:

The Column stream jet produces a large vertical column of water from multiple clear stream nozzles. Very attractive and effective as a centrepiece in a fountain pool, pond or lake. It is excellent for viewing at great distances because of its massive column flow and spray height. Very beautiful when illuminated from all sides.

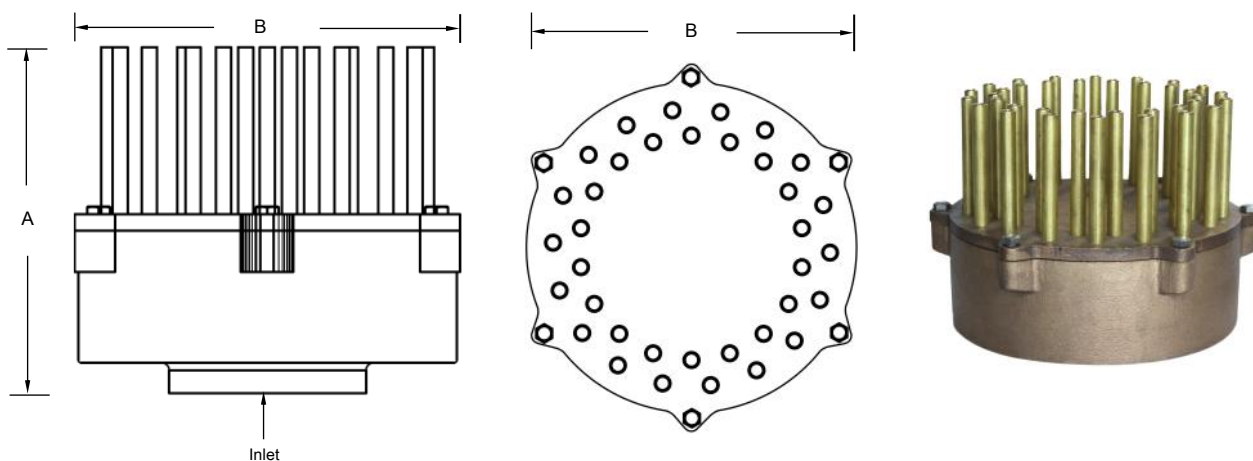
Water level independent.



Specifications:

Material: Cast Bronze and Brass,
Stainless steel fittings

Connection type: Female Thread



Model no.	Inlet (BSP)	Nozzle Height A (mm)	B (mm)	No. Of Jets	Spray Height (m)	2	4	6	8	10	12	14	16
CSJ-400	4"	220	250	36	Flow (LPM)	925	1325	1650	1975	2225			
					Head (m)	4.2	7	9.5	12.5	15			
CSJ-600	6"	220	250	36	Flow (LPM)	925	1325	1650	1975	2225	2475		
					Head (m)	4	6.6	9	12	14.5	17.5		

Multi Jet Nozzle - MJN-150

Function:

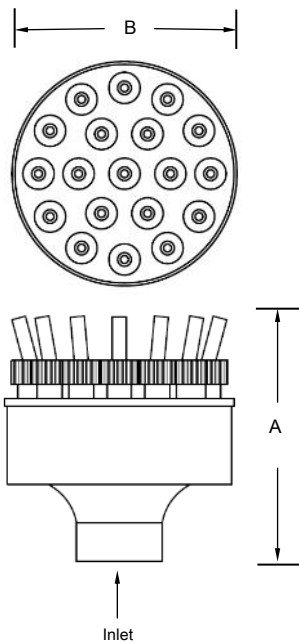
The Multi jet nozzle produces three tiered effect of clear stream nozzles. Ideal for small to medium size pools.

Water level independent.

Specifications:

Material: Machined Brass

Connection type: Female



Model no.	BSP conn.	Nozzle Height A (mm)	Nozzle Width B (mm)	No. Of Jets	Orifice (mm)	Spray Distance (m)	1	1.5	2	2.5	3
							MJN-150	1 1/2"	126	115	19
						Head (m)	2.6	3.2	4	6.8	7.5

Foam Bubbler Jet - FBJ Series

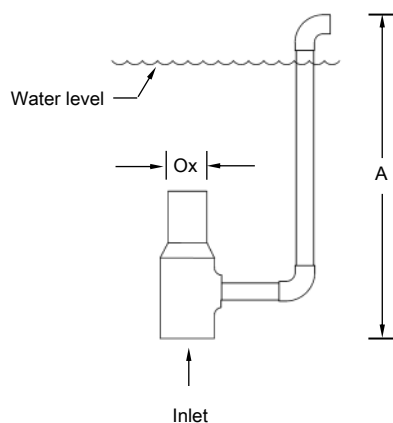
Function:

The foam bubbler jet uses the venturi effect to aerate the water creating a fluffy white spray pattern. Suitable for outdoor water features in medium and large displays. **Water Level Dependant.**



Specifications:

Material: Cast Bronze
 Connection type: Female Thread



Model No.	Inlet (BSP)	Nozzle Height A (mm)	Orifice Ox (mm)	W	Spray Height (m)	1	1.5	2	2.5	3	4	5	6	8
						LPM	Head (m)	LPM	Head (m)	LPM	Head (m)	LPM	Head (m)	LPM
FBJ-125	1 1/4"	349	32	100	LPM	125	150	175	190	200	230			
					Head (m)	5.0	7.0	8.0	8.36	10.8	15			
FBJ-150	1 1/2"	377	38	120	LPM	175	205	231	258	281	337	380		
					Head (m)	5	7	8.4	11.6	17	21.1	23.5		
FBJ-200	2"	428	51	75	LPM	265	305	337	364	383	432	473	515	1007
					Head (m)	3.9	5.2	6.3	7.4	8.2	10	11.6	13.2	21
FBJ-300	3"	527	89	90	LPM	517	574	632	690	747	862	977	1092	1322
					Head (m)	3	4	6	7	8	10	12	14	18

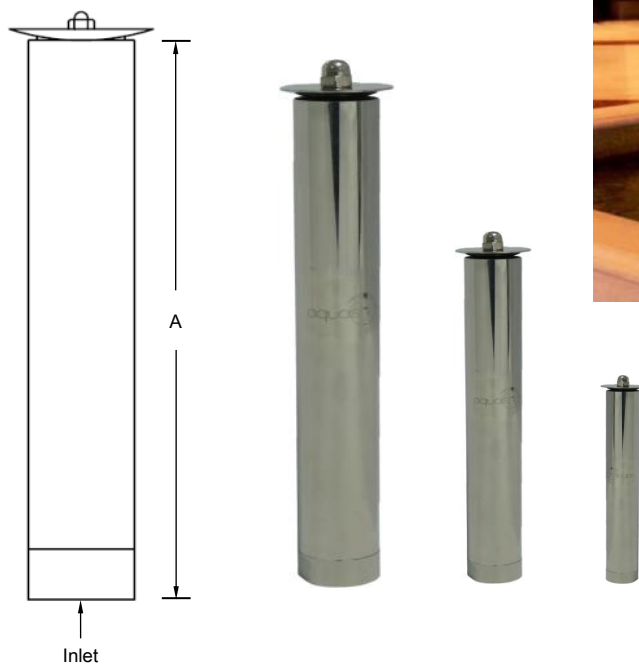
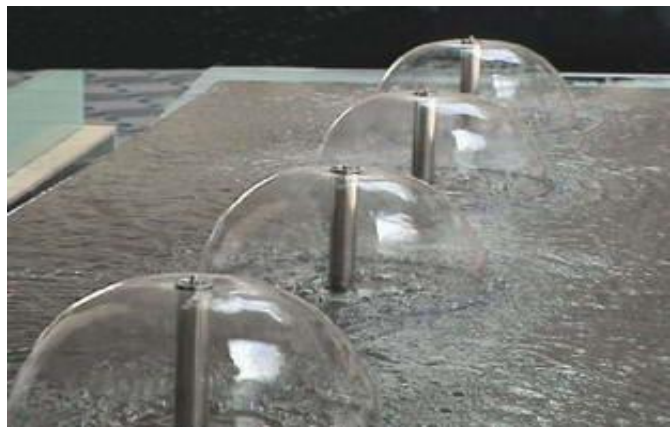
Bell Jet - BL Series

Function:

The bell jets produce a thin film of water which form a hemispherical shape resembling a bell. The nozzle is ideal for small and medium size fountains and can be used for interior or exterior applications.

Specifications:

Material: Stainless Steel 316
 Connection type: Female Thread



Model no.	Inlet (BSP)	Nozzle Height A (mm)	Head (m)	Flow (LPM)	Spray diameter (m)
BL-050	1/2"	250	0.8	16.5	0.30
BL-100	1"	400	1	33.5	0.60
BL-150	1 1/2"	500	1	50	1
BL-200	2"	600	1.5	83	1.2

Dandelion Sphere - DS Series

Function:

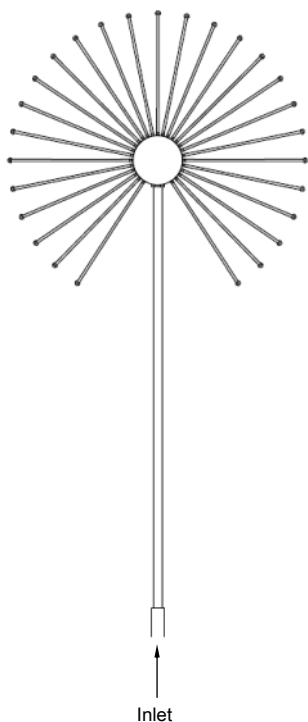
The Dandelion Sphere consists of multiple nozzles distributed around a central globe. Each nozzle creates a disc type spray effect of water which produces an effect similar to a dandelion flower. It is spectacular during the day and even more impressive when illuminated at night. When it is not in operation the Dandelion sphere appears as a sculpture with its unique shape.

The Dandelion sphere is suitable for indoor and outdoor displays. Individual disc nozzles can be adjusted to obtain the desired water thickness. Each nozzle pipe can be removed and easily cleaned.



Specifications:

Material: Brass & Stainless steel
 Connection type: Flange (DN)



Model no.	Inlet (BSP)	No of Arms	Height (m)	Head (m)	Flow (LPM)	Diameter (m)
DS-100	1"	30	1	10	166.6	0.60
DS-150	1 1/2"	40	1.5	10	250	1
DS-200	2"	65	1.8	10	333.3	1.2
DS-300	3"	105	2.3	10	833.3	1.8

Dandelion Hemisphere - DHS Series

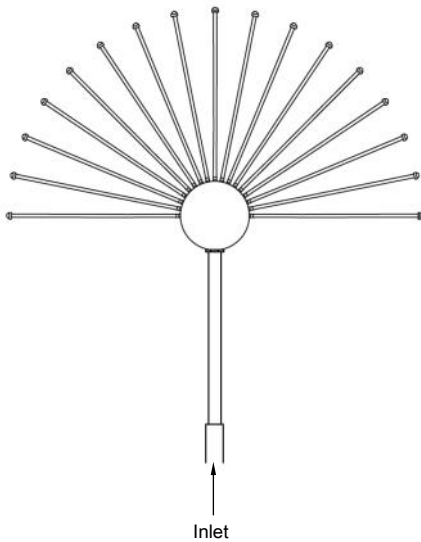
Function:

The Dandelion Hemisphere consists of multiple nozzles distributed in a semi circle around a central globe. Each nozzle creates a disc type spray effect of water which produces an effect similar to a dandelion flower. It is spectacular during the day and even more impressive when illuminated at night. When it is not in operation the Dandelion Hemisphere appears as a sculpture with its unique shape. The Dandelion Hemisphere is suitable for indoor and outdoor displays.



Specifications:

Material: Brass & Stainless steel
 Connection type: Flange (DN)



Model no.	Inlet (DN)	No of Arms	Height (m)	Head (m)	Flow (LPM)	Diameter (mm)
DHS-41	80	41	0.9	3.9	410	900
DHS-62	100	62	1.5	4.5	620	1500
DHS-84	100	84	1.8	4.8	840	1800
DHS-124	100	124	2.4	5.4	1240	2400
DHS-178	150	178	3.2	6.2	1780	3200

Finger Jet - FIJ Series

Function:

The Finger Jet nozzle produces a leafy pattern which originates from a single point and spreads to different directions as individual streams. Adjusting the nozzle to an angle can differ the shape it creates. Using the nozzles as collective groups can make the water feature more attractive and unique. **Water level Independent.**



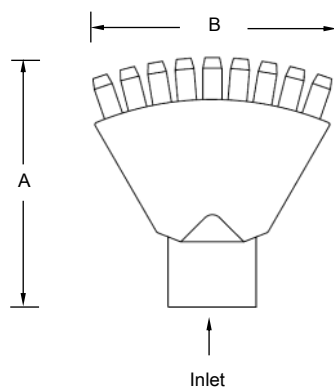
Specifications:

Material: Machined Cast Bronze

Connection type: Female Thread



FIJ -100



Model No.	Inlet (BSP)	Connection Type	Nozzle Height A (mm)	Nozzle Width B (mm)	Throw C (m)	Height D (m)	Spread E (m)	LPM	Head
FNJ-100	1"	Male	110	70	0.5	0.1	0.4	36	2
					1.75	0.15	0.5	48	3.5
					1	0.22	0.6	57	5
					1.5	0.38	0.8	73	7
FNJ-150	1 1/2"	Female	175	130	0.5	0.1	0.3	90	5
					1	0.15	0.6	120	8
					1.5	0.25	0.9	200	10
					2	0.4	1.5	250	12
					3	0.7	1.9	270	18

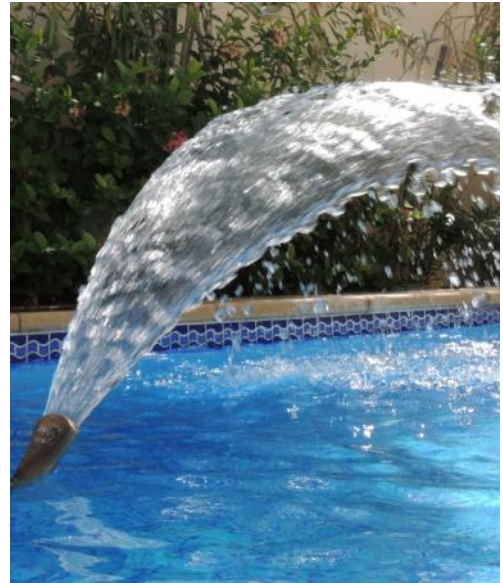
Fan Jet - FNJ Series

Function:

The Fan Jet can produce a thin film of water that forms a triangular leafy shape. Ideal for small and medium displays.
Water Level Independent.

Specifications:

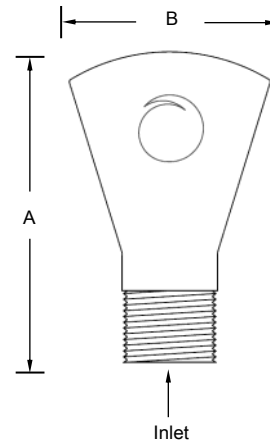
Material: Cast Bronze and Machined Brass
 Connection type: Male / Female thread



FNJ-150



FNJ-100



Model No.	Inlet (BSP)	Connection Type	Nozzle Height A (mm)	Nozzle Width B (mm)	Throw C (m)	Height D (m)	Spread E (m)	LPM	Head
FNJ-100	1"	Male	110	70	0.5	0.1	0.4	36	2
					1.75	0.15	0.5	48	3.5
					1	0.22	0.6	57	5
					1.5	0.38	0.8	73	7
FNJ-150	1 1/2"	Female	175	130	0.5	0.1	0.3	90	5
					1	0.15	0.6	120	8
					1.5	0.25	0.9	200	10
					2	0.4	1.5	250	12
					3	0.7	1.9	270	18

Single Stream Jet - SSJ-100

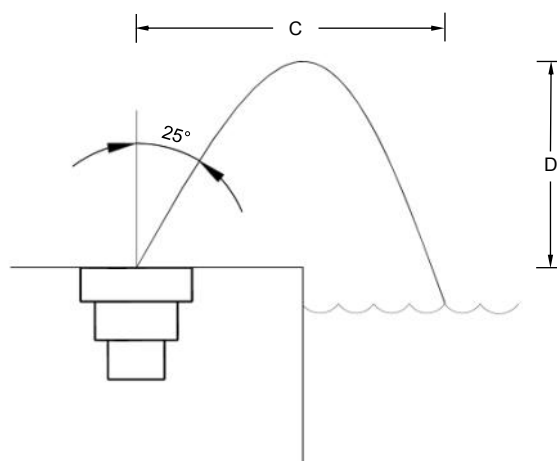
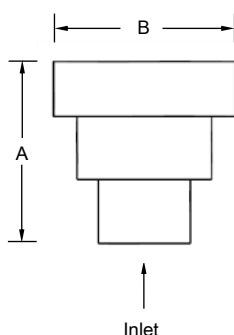
Function:

The Single Stream Jet nozzle is designed to be flush mounted either horizontally or vertically with jet angle adjustment of up to 25 degrees. For horizontal installations, it is ideal for deck level mounting around the swimming pool or children's water play areas. For vertical installations, it is fixed flush on the wall and used as a water spout. **Water Level Independent.**



Specifications:

Material: Brass
 Connection type: Male thread



Model No.	Inlet (BSP)	Nozzle Height A (mm)	Nozzle Width B (mm)	Throw C (m)	0.5	1.2	1.5	2.1	2.4	3
SSJ-100	1"	55	65	LPM	12.8	17.8	19.9	24.1	26.3	30.5
				Head (m)	0.6	1.4	1.7	2.4	2.7	3.4
				Spray Height D (cm)	30.4	74.6	93.6	131.6	150.5	188.5

Tri stream Jet - TSJ-100

Function:

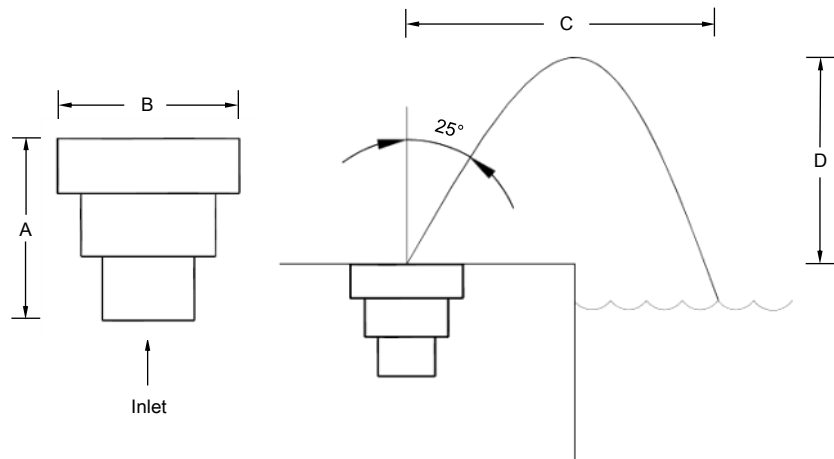
The Tri stream Jet is ideal for deck level mounting and is suitable for small displays, swimming pools and play areas. Three streams of water shoot out from the jet and can be directed to an angle of up to 25 degrees. Fine screening at the pump will provide a smoother flow on the stream jets.

Water Level Independent.



Specifications:

Material: Brass
 Connection type: Male thread



Model No.	Inlet (BSP)	Nozzle Height A (mm)	Nozzle Width B (mm)	Throw C (m)	0.5	1.2	1.5	2.1	2.4	3
TSJ-100	1"	55	65	LPM	9.6	13.3	14.8	17.9	19.5	22.6
				Head (m)	0.7	1.4	1.8	2.4	2.8	3.4
				Spray Height D (cm)	15.0	58.5	77.1	114.3	133.0	170.2
				Spread (cm)	15.2	58.5	77.1	114.2	132.8	170.0

Aquaswitch - AS Series

Function:

The Aquaswitch is a fast acting device that switches the flow of water supply from one outlet to another within a fraction of a second with no water hammer to the piping. Water level independent Aerated or Precision jets can be fixed on the Aquaswitch to provide the desired effects as required.

The Aquaswitch does not have any moving parts other than a solenoid which controls air intake to the activating ports in the device. Air is introduced via an air hose to two ports. The solenoid valve transfers air intake from one port to the other allowing the water flow inside the device to switch direction from one outlet to another through a process called the "Coanda effect".

Good quality filtered water is essential for the Aquaswitch performance and reliability. A screen discharge filter is recommend on the delivery line to avoid clogging of the device. A stainless steel stand provides angle and position adjustments during and after installation. Available in 24V AC or DC voltages and in 1" or 1.5" inlet connections. Can be used dry or submerged up to maximum water level as shown.



Specifications:

Material:	Plastic body with Stainless steel 316 fittings Brass Nozzle
Protection rating:	IP68
Voltage:	24V AC 50-60Hz (24V DC available on request)
Cable:	2 C - 1 mm ²
Standard cable length:	2.5m (custom length available on request)

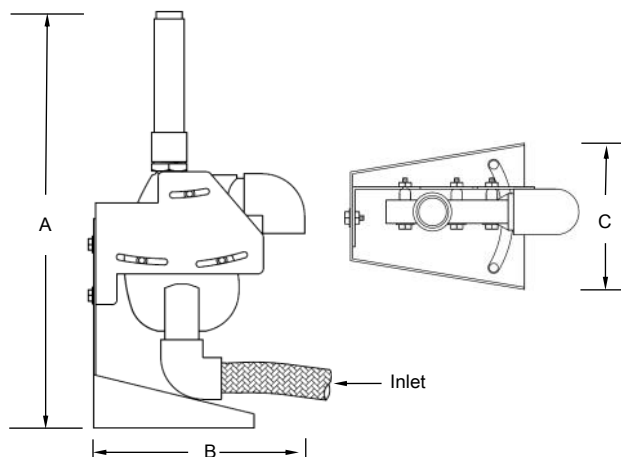


Aquaswitch - AS Series

Aerator Jet:



AS-AJI-100

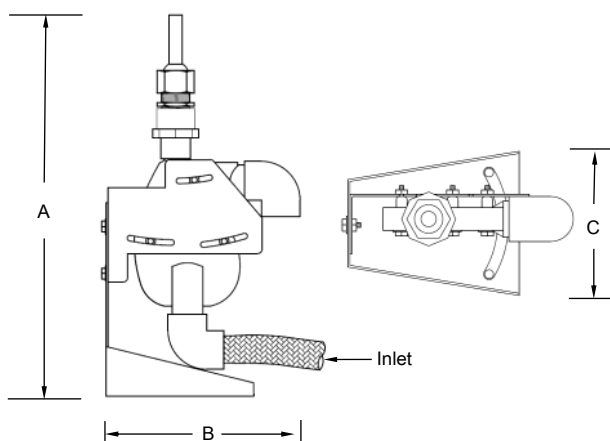


Model no.	Nozzle Type	Inlet (BSP)	Outlet (BSP)	A (mm)	B (mm)	C (mm)	Max water level (mm)	Spray Height (m)	0.5	1	1.5	2	2.5	3
								LPM	26	32	38	44	48	52
AS-AJI-100	1" Aerator Jet	1"	3/4"	423-453	211	123	420	Head (m)	2.8	5.1	7.4	9.7	12	14.3

Precision



AS-PJS-100

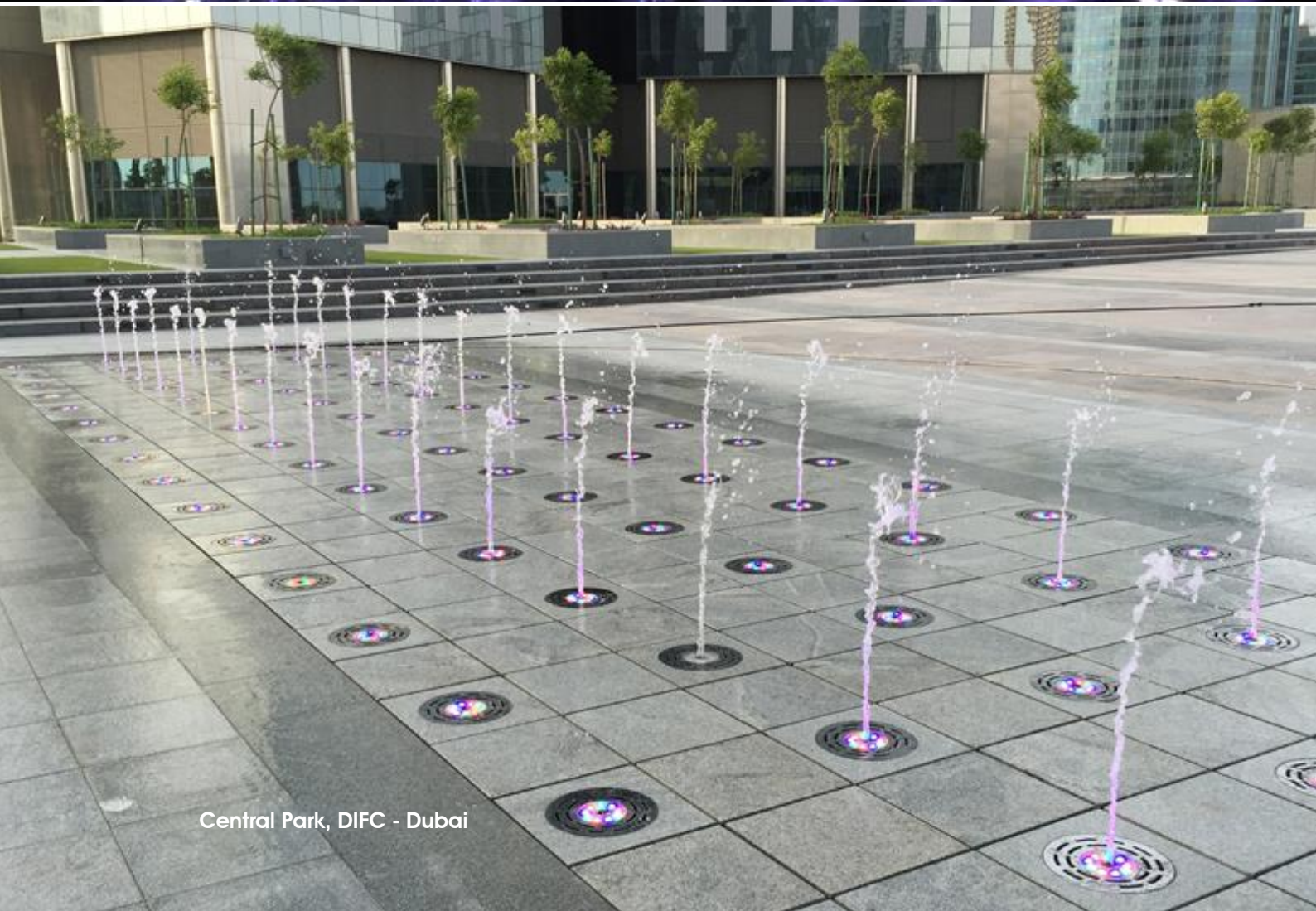


Model no.	Nozzle Type	Inlet (BSP)	Outlet (BSP)	A (mm)	B (mm)	C (mm)	Max water level (mm)	Spray Height (m)	1	1.5	2	2.5	3	3.5
								LPM	31.8	36.6	41.4	46.2	51	56
AS-PJS-100	1" Precision Jet	1"	3/4"	446-476	211	123	440	Head (m)	4.4	6.8	9.2	11.6	14	16.4

*Please note, there may be some changes to the design of nozzles in the future as Aquashi is consistently improving and developing new nozzles. Therefore we request you contact Aquashi to re-confirm actual performances of the Aquaswitch and nozzles at time of order.



Musical Fountain - Nowruze Park



Central Park, DIFC - Dubai

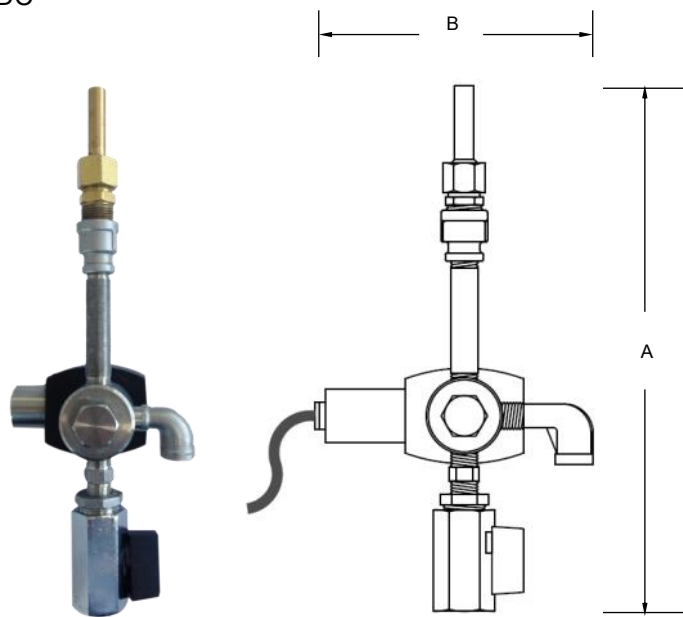
Pop Jet - POP-100

Function:

The Pop jet is an interactive nozzle which can be controlled to create short streams or small balls of water that appear to 'pop' out of the water feature. The length and shape of the water ejected can be adjusted by increasing or decreasing the activation timing of the jet. When grouped together the Pop jets can create dynamic fountains with its sequencing technology. Suitable for both indoor and outdoor applications. **Water level independent.**

Specifications:

Material:	Brass, stainless steel and plastic
Protection Rating:	IP 68
Connection Size:	1/4"
Voltage:	24V DC
Current:	0.5A



Model no.	Description	Nozzle Type	Inlet (BSP)	A (mm)	B (mm)	C (mm)	Spray Height (m)	Submerged (W1=3mm)			Non Submerged		
								0.5	1	1.5	0.5	1	1.5
POP-100-4	250mm height Pop jet	3/8" Precision Jet	1/2"	238-263	133	105	LPM	4.2	5.6	8	2	3.2	4.3
							Head (m)	4.5	7.5	10	3	6	8
POP-100-6	300mm height Pop jet	3/8" Precision Jet	1/2"	288-313	133	105	LPM	4.2	5.6	8	2	3.2	4.3
							Head (m)	4.5	7.5	10	3	6	8
POP-100-8	350mm height Pop jet	3/8" Precision Jet	1/2"	338-363	133	105	LPM	4.2	5.6	8	2	3.2	4.3
							Head (m)	4.5	7.5	10	3	6	8



Laminar Jet - LJ Series

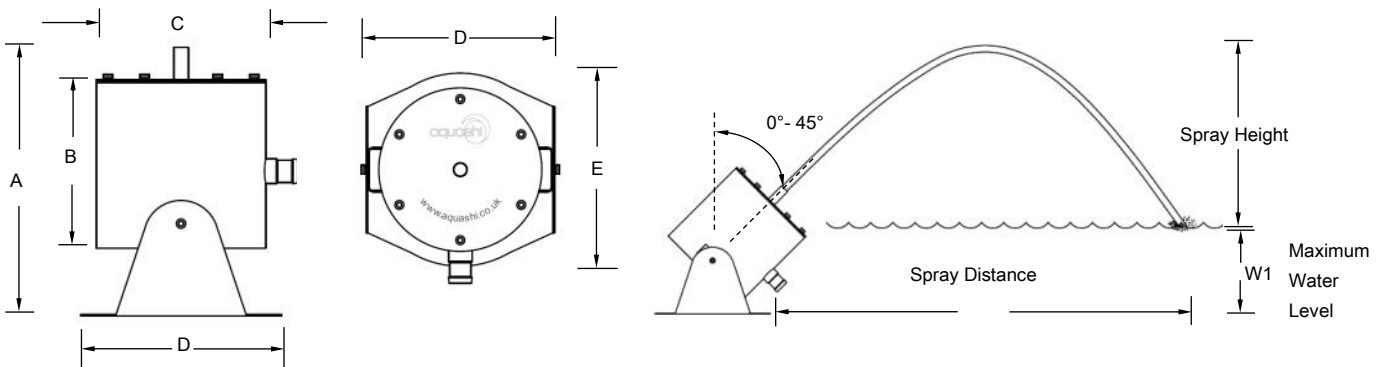
Function:

The laminar jet produces a parabolic water rod which is a clear and continuous tube of water until it falls down. The Laminar jet is equipped with an LED light and when illuminated at night becomes a striking attraction for pools and water features. Available in LED white or RGB colour changing. The unit can be installed out of water or submerged to maximum water level shown. Proper filtration is a key requirement for this kind of water feature. Recommended to use with screen discharge filter (SF series).



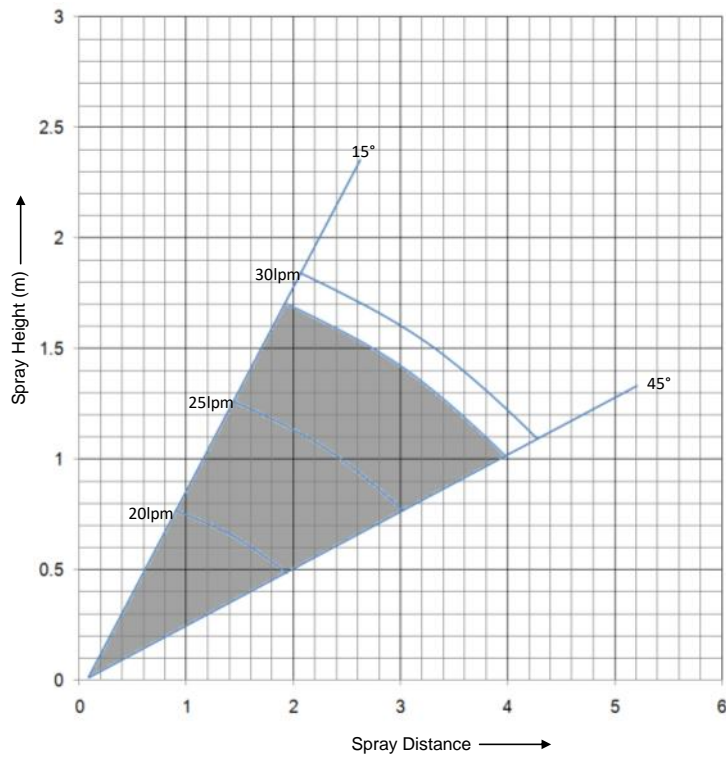
Specifications:

Material:	Stainless steel
Protection Rating:	IP 68
Voltage (LED):	12V AC
Power:	9W
Colour:	LED RGB or White
Connection type:	1" Inlet
Standard Cable Size:	2C, 0.75mm ²



Model No.	Description	Inlet (BSP)	Colour	Control	Power (W)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	W1 (mm)
LJ - 100	Laminar Jet RGBW LED	1"	RGBW	DMX	8	306	233	219	247	259	185
LJ - 101	Laminar Jet Cool white LED	1"	Cool White	On/off	5	306	233	219	247	259	185
LJ - 102	Laminar Jet Warm white LED	1"	Warm White	On/off	5	306	233	219	247	259	185

Laminar Jet - LJ Series



Jumping Jet - JJ Series

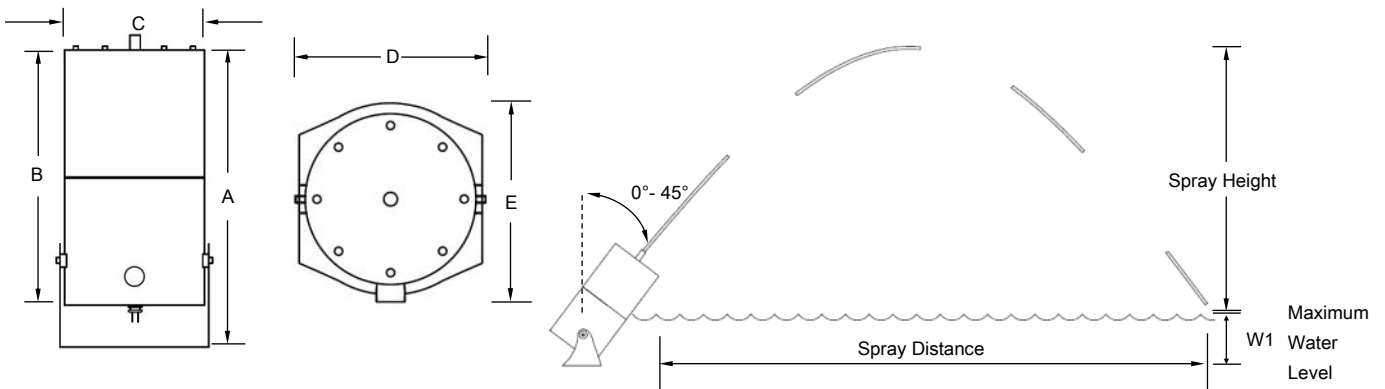
Function:

The jumping jets produces a parabolic water rod which is a clear and continuous tube of water until it falls down. The advanced technology used in this device allows the water rod to be cut at programmed intervals. The water rods are instantaneously cut so that the shape and illumination is retained. Jumping Jets are equipped with an LED light and when illuminated at night becomes an amazing attraction as the light travels along the stream of water. Proper filtration is a key requirement for this kind of water feature. Recommended to use with screen discharge filter (SF series).



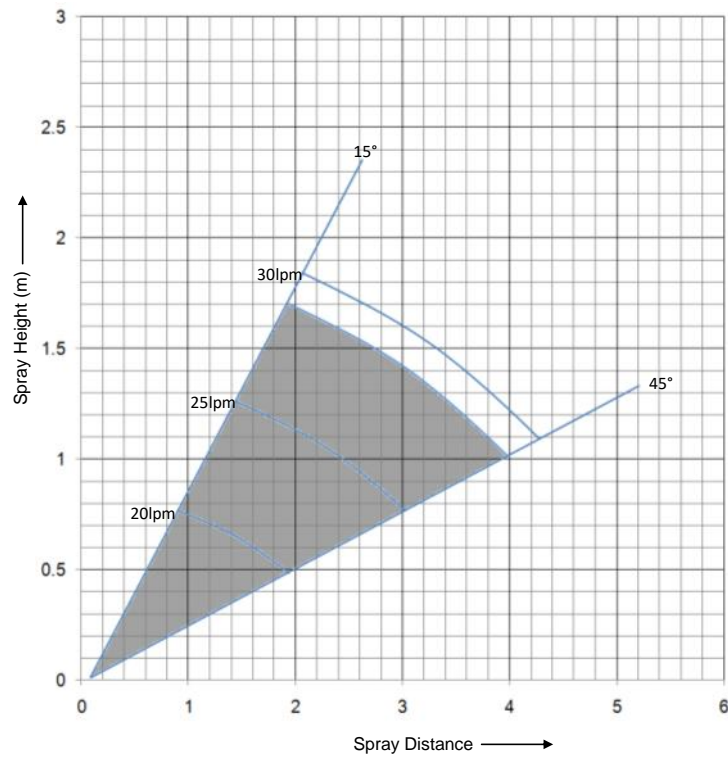
Specifications:

Material:	Stainless Steel
Protection Rating:	IP 68
Voltage (LED):	12V AC
Power:	9W
Colour:	LED RGB or White
Connection type:	1" Inlet



Model No.	Description	Inlet (BSP)	Light Colour	Light Control	Light Power (W)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	W1 (mm)
JJ-100	Jumping Jet RGBW LED	1"	RGBW	DMX	8	468	413	219	247	259	185
JJ-101	Jumping Jet Cool white LED	1"	Cool white	On/off	5	468	413	219	247	259	185
JJ-102	Jumping Jet Warm white LED	1"	Warm white	On/off	5	468	413	219	247	259	185

Jumping Jet - JJ Series



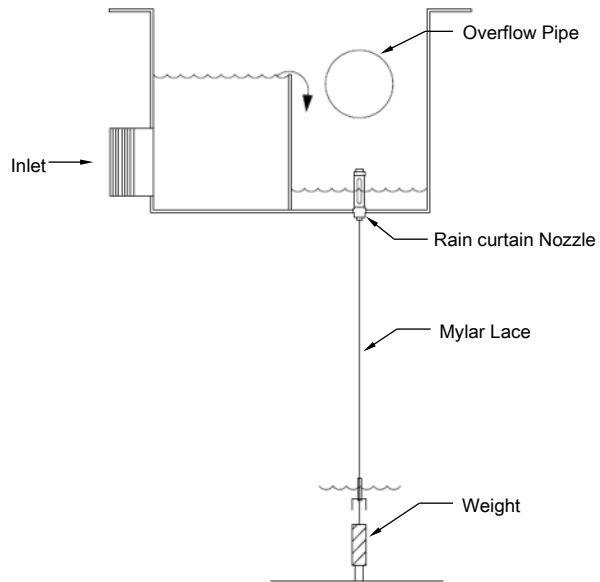
Rain Curtain Nozzle - RC Series

Function:

The rain curtain creates a mesmerizing effect with slow falling water droplets from a height along a mylar lace. Suitable for indoor water features. The curtain produces very little noise due to its unique design. The rain curtain can be customized by shape and height. For best effect, the flow rate per nozzle should be 0.5 LPM.

Specifications:

Material: Brass and Stainless Steel



Model No.	Description	Dimensions
RC-N	Rain curtain nozzle	A: Ø17mm, B: 33mm
RC-L	Mylar Lace	C: 4mm
RC-S	Splash suppressor	D: Ø15mm E: 50mm
RC-W	Weight	F: 35mm, G: Ø25mm



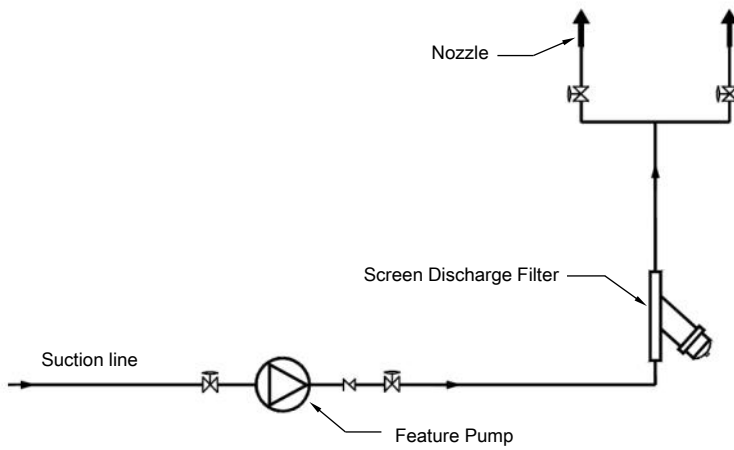
Screen Discharge Filter - SF Series

Function:

The screen filter is used to protect nozzles with small passages from clogging. Made of poly-propylene body with internal stainless steel screen mesh. The screen filter is easy to install and requires low maintenance.

Specifications:

Material: Stainless Steel/ Poly-propylene
 Mesh Size: 120 mesh/ 130 micron, Available in 80 mesh and 150 mesh
 Connection type: Male thread



Model no.	Inlet/Outlet (BSP)	Maximum Pressure (bar)	Flow Rate (m ³ /hr)	Pressure Drop (bar)	Filter Area (cm ²)	Cartridge Diameter (mm)	Cartridge Height (mm)	Weight (Kg)	Nominal flow (m ³ /hr)
SF-100	1"	6	4-6	0.3	120	48	150	0.23	5
SF-150	1 1/2"	6	12-16	0.18	295	69	222	0.85	15
SF-200	2"	8	15-27	0.2	492	104	286	1.85	25
SF-300	3"	9.8	35-45	0.22	831	118	372	4.3	40

Swivel Ball Connector - SWB Series

Function:

Swivel Connectors enable the nozzle to adjust to a maximum of 15 degrees from the central axis rotating on a ball joint.

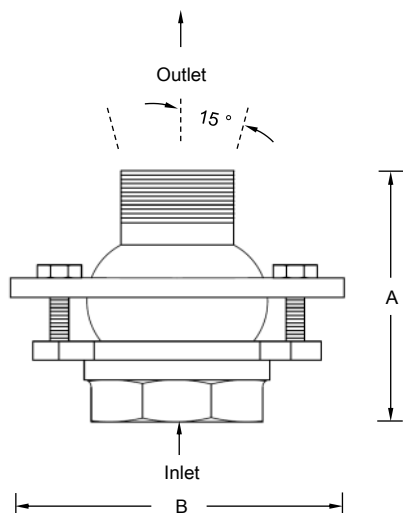


Specifications:

Material: Cast Bronze / Brass

Inlet connection type: Female thread

Outlet connection type: Male thread



Model no.	Description	Inlet / Outlet (BSP)	A (mm)	B (mm)
SWB-100	1 inch Swing ball connector	1"	62	100
SWB-150	1.5 inch Swing ball connector	1 1/2"	75	116
SWB-200	2 inch Swing ball connector	2"	90	135
SWB-300	3 inch Swing ball connector	3"	111	190
SWB-400	4 inch Swing ball connector	4"	140	220

Swivel Flange Connector - SWF Series

Function:

Swivel Flange Connectors enable the nozzle to adjust to a maximum of 5 degrees from the central axis.

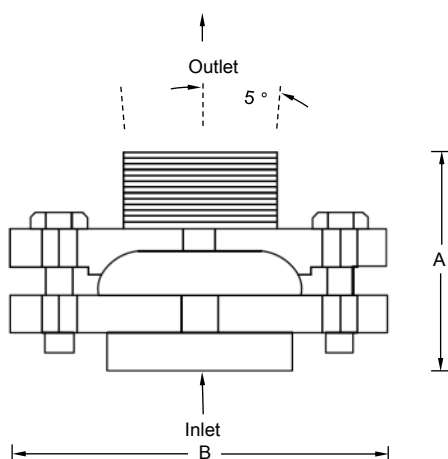


Specifications:

Material: Cast Bronze / Brass

Inlet connection type: Female thread

Outlet connection type: Male thread



Model no.	Description	Inlet / Outlet (BSP)	A (mm)	B (mm)
SWF-100	1 inch Swing flange connector	1"	62	84
SWF-150	1.5 inch Swing flange connector	1 1/2"	70	110
SWF-200	2 inch Swing flange connector	2"	80	120
SWF-250	2.5 inch Swing flange connector	2 1/2"	79	130
SWF-300	3 inch Swing flange connector	3"	90	162
SWF-400	4 inch Swing flange connector	4"	96	170

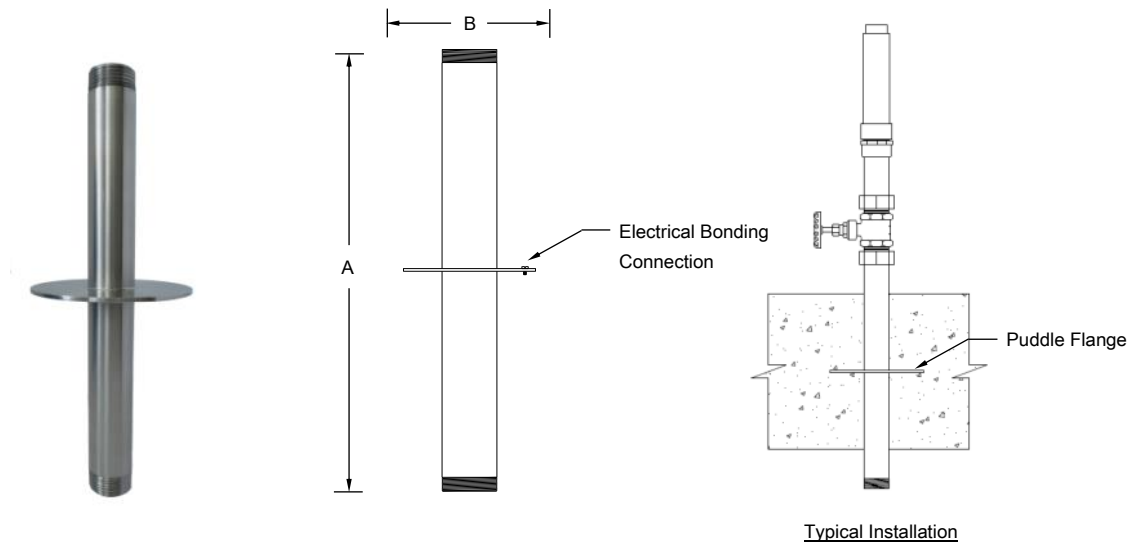
Puddle Flange - PF Series

Function:

The Stainless steel puddle flanges provide a strong, durable and water tight connection for water pipe penetrations. To be installed in concrete pool floors or walls, the puddle flanges are provided with a BSP connection on either side. Can be customised on request.

Specifications:

Material: Stainless steel 316
 Connection type: Male thread



Typical Installation

Model No.	Inlet/Outlet (BSP)	A (mm)	B (mm)
PF-50	1/2"	400	120
PF-75	3/4"	400	120
PF-100	1"	400	120
PF-125	1 1/4"	400	120
PF-150	1 1/2"	400	120
PF-200	2"	400	150
PF-300	3"	400	150

Splash Mat

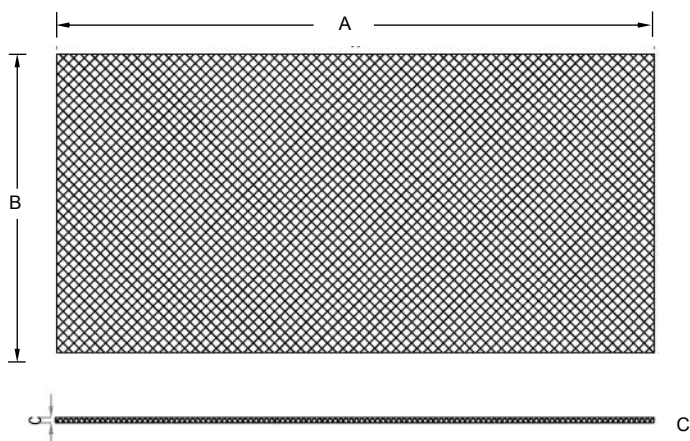
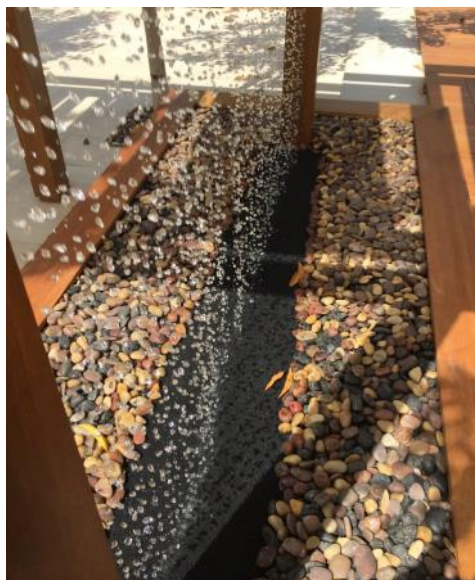
Function:

The splash mat is designed to reduce excess splash in small pools while also reducing noise level. Ideal for indoor applications where noise and splash are common issues. Can be cut to desired shape or size.

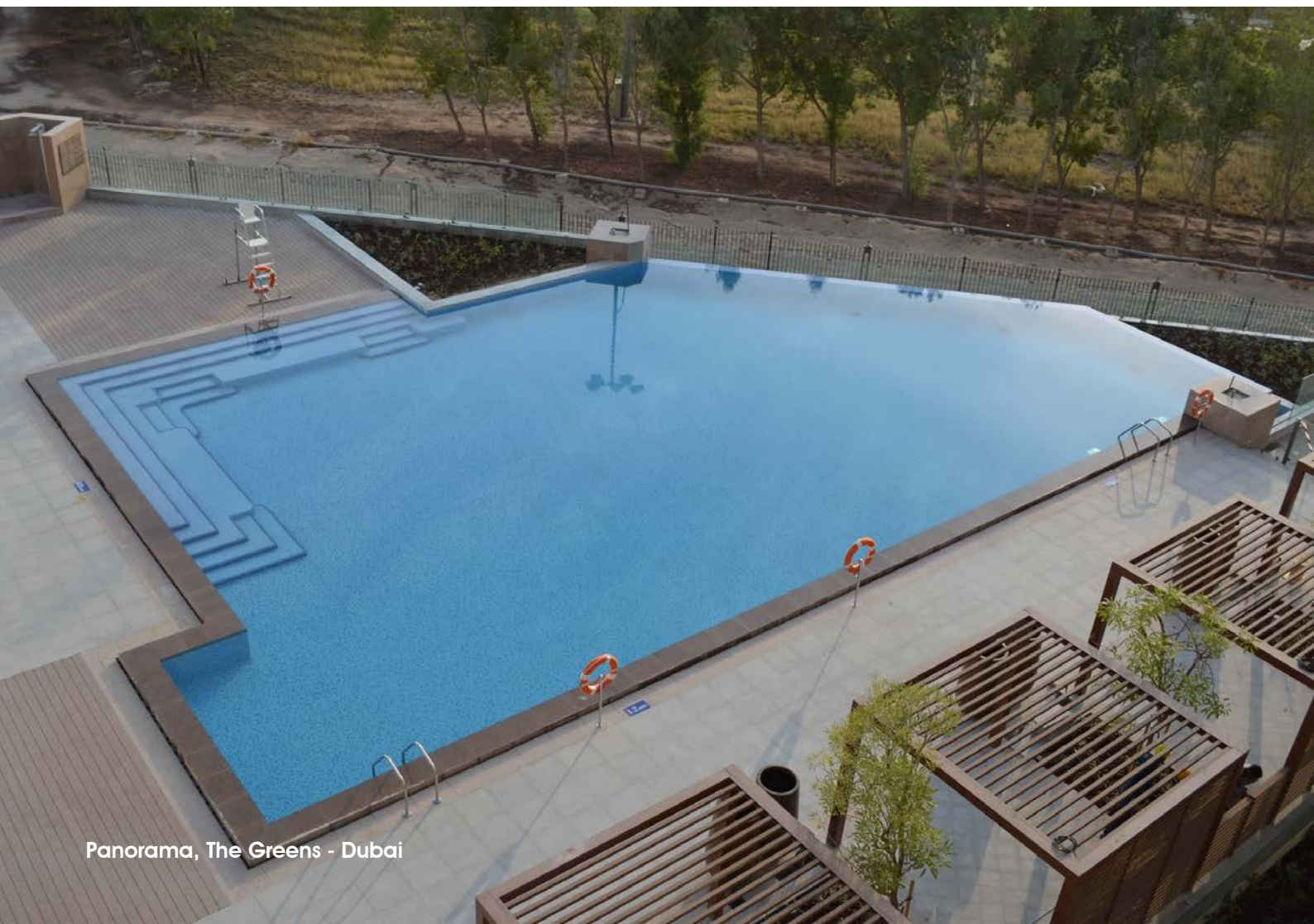
Specifications:

Material: Coarse Polyester

Dimension: 1.4m width x custom length























Model No.	A (mm)	B (mm)	C (mm)
Splash Mat	Custom	1400	30



Panorama, The Greens - Dubai

Lighting & Accessories

Fountain Lighting & Accessories

 FSLED Series 54	 FSLED Series 54	 RGLED Series 57	 RGLED Series 60	 SHLED Series 62
 Linear Light 65	 FSC-S Series 66	 FSCLED Series 67	 FMC Series 68	 FMCLED Series 69
 LEDPS Series 71	 LEDPS-60/ 120 72	 LEDPS 240/ 480 73	 DMX -C200 74	 DMX -C100 74
 JB Series 75	 JBF Series 76	 JBM Series 77	 CS Series 78	 SUE Series 79

Swimming Pool Lighting & Accessories

 LSP S-Series 80	 LSP Series 81	 PAR 56 LED 83	 PL Series 84	 RF Remote 86
 Deck Box 87	 Transformer 88			

Lighting & Accessories

Aquashi provides a wide range of lighting solutions to suit your needs. Whether it's a residential pool or a commercial fountain, our products have been designed & manufactured to the highest standard. For custom applications please contact us with your requirements and our technical team can work together with you to achieve your desired effect.



Lighting & Accessories

Fountain Lighting

LED 30W Free Standing Light Fixture - FSLED Series	54
LED 30W Ring Light Fixture - RGLLED 30 Series	57
LED 36W Ring Light Fixture - RGLLED 40 Series	60
LED 30W Light Fixture with Slab Hanger - SHLED Series	62
Linear LED light - LINLED Series	65
Free standing Compact Halogen Light Fixture - FSC-S Series	66
Free Standing Compact LED Light Fixture - FSCLED Series	67
Flush Mounted Compact Halogen Light Fixture - FMC Series	68
Flush Mounted Compact LED Light Fixture - FMCLED Series	69

Fountain Accessories

LED Power and Data Supply Panel - LEDPDS Series	71
LED Power Supply Panel - LEDPS-60/ 120	72
LED Power Supply Panel - LEDPS-240/ 480	73
DMX Lighting Controller - DMX-C200.....	74
DMX Lighting Controller - DMX-C100.....	74
Underwater Junction Box - JB Series	75
Flush Mounted Junction Box - JBF Series	76
Moveable Junction Box - JBM Series	77
Cord Seals - CS Series	78
Stub up - Electrical - SUE Series	79

Swimming Pool Lighting

Swimming Pool Halogen Light - Concrete	80
Underwater LED Light - Concrete - LSP Series	81
PAR 56 LED Lamp	83
Ultra Flat Lamp - PL Series	84

Swimming Pool Accessories

RF Remote	86
Deck Box	87
Transformer - TFR Series	88

LED 30W Free Standing Light Fixture - FSLED Series

Function:

The free standing underwater LED lights can be used with a variety of fountain nozzles to give spectacular colours to water with its white or RGB colour changing technology. Ideal for sequenced fountains as the DMX controllability provides additional control for choreographed sequencing effects and virtual effects with water. Available in white LED as on/off control for non-sequencing fountains. Optional rock guard is available on request.

Benefits:

- User controllable by any DMX controller with USITT DMX512-A standard output.
- LED Lights are energy efficient; consuming less power while providing the same illumination as the halogen lights.

Specifications:

Power:	30W
Voltage:	12-24V DC
Colours:	RGB - DMX / White DMX/ White
Cable:	4 C - 0.75 mm ² (DMX light) 2 C - 1.5 mm ² (White light)
Standard Cable Length:	2 m (Custom length available on request)
Max. Height (with stand):	405 mm
Min. Height (with stand):	295 mm
LED:	9 numbers
Beam Angle:	30 ° as standard (Optional 15 or 45 ° lens available on request)
Material:	Brass or Stainless steel 316
Front Cover:	Polycarbonate clear cover / Optional brass or stainless steel rock guard
Protection Rating:	IP 68



FSLED - B030-RG

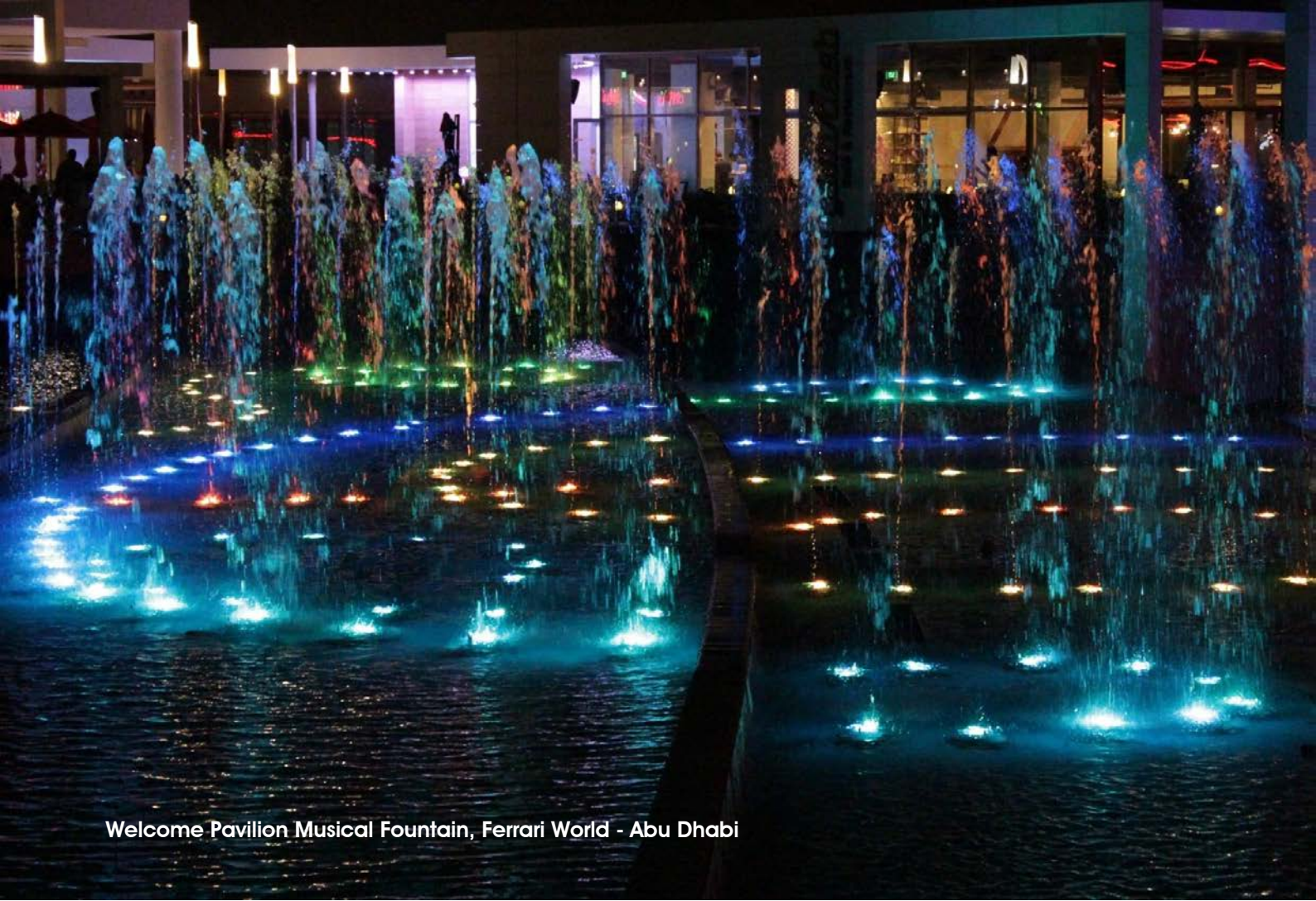
Controller:

The RGB coloured light is controlled through three DMX channels for R, G & B. It can be supplied as preaddressed or with a standard pre-programmed sequence. White LED lights are controlled by switching On/Off or via DMX controlled white lights. For DMX controllers see page 74.

Model No.	Description	Material	Supply Voltage	Colour	Control
FSLED-B030	DMX controlled 30 W LED light	Brass	12-24V DC	RGB	DMX
FSLED-S030	DMX controlled 30 W LED light	SS 316	12-24V DC	RGB	DMX
FSLED-B031	Free standing Cool White LED light 30W	Brass	12-24V DC	Cool White	On/Off
FSLED-S031	Free standing Cool White LED light 30W	SS 316	12-24V DC	Cool White	On/Off
FSLED-B032	Free standing Warm White LED light 30W	Brass	12-24V DC	Warm White	On/Off
FSLED-S032	Free standing Warm White LED light 30W	SS 316	12-24V DC	Warm White	On/Off

*Add Suffix RG to model number to order optional rock guard. i.e. FSLED-B030-RG

*Add Suffix DMX to model number to order DMX controlled white light i.e. FSLED-S031-DMX

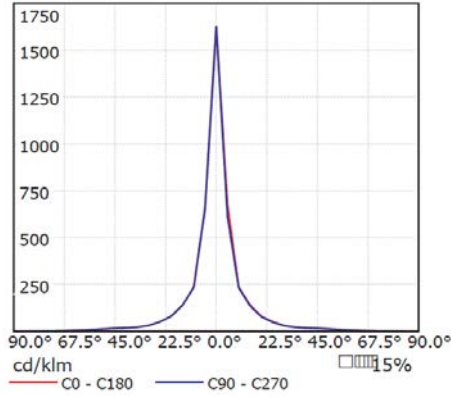
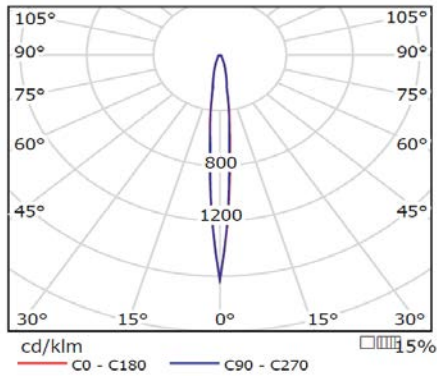


Welcome Pavilion Musical Fountain, Ferrari World - Abu Dhabi



LED 30W Free Standing Light Fixture - FSLED Series

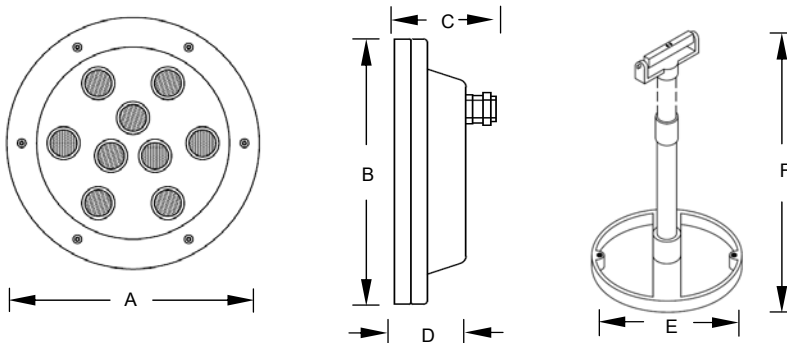
Light Distribution Curve:



Illuminance at Distance :

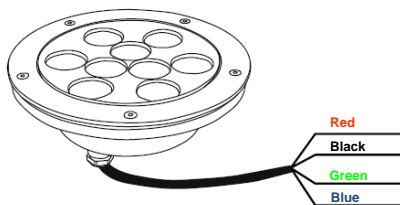
Distance	Centre Brightness	Beam Width
1m	3117 lux	26 cm
2m	780 lux	54 cm
3m	346 lux	80 cm
4m	194 lux	107 cm
5m	124 lux	134 cm

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
169	169	68	49	178	295-405

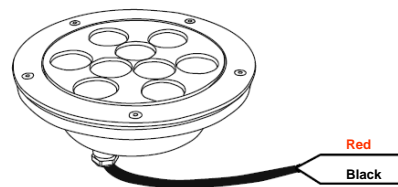


Connection Diagrams:

The DMX lights require 4 cables to function correctly, two for power and two for data. If using with the pre-programmed mode for RGB DMX light, only the 24V DC power has to be provided. White LED lights only require 24V DC power supply (unless they are supplied with DMX control).



Cable connection for RGB DMX light



Cable connection for White light

LED 30W Ring Light Fixture - RGLED 30 Series

Function:

The underwater LED Ring lights can be used with a variety of fountain nozzles to give spectacular colours to water with its white or RGB colour changing technology. Ideal for sequenced fountains as the DMX controllability provides additional control for choreographed sequencing effects and virtual effects with water.



Specifications:

Power:	30W
Voltage:	12-24V DC
Colours:	RGB - DMX / White DMX/ White
Cable:	4 C - 0.75 mm ² (DMX light) 2 C - 1.5 mm ² (White light)
Standard Cable Length:	2 m (Custom length available on request)
LED:	9 numbers
Beam Angle:	30 ° as standard (Optional 15 or 45 ° lens available on request)
Diameter/ Centre hole:	169/36 mm
Material:	Brass or Stainless steel 316
Front Cover:	Polycarbonate clear cover
Protection Rating:	IP 68

Controller:

The RGB coloured light is controlled through three DMX channels for R, G & B. It can be supplied as preaddressed or with a standard pre-programmed sequence. White LED lights are controlled by On/Off.

Model No.	Description	Material	Supply Voltage	Colour	Control
RGLED-B030	DMX controlled 30W LED light	Brass	12-24V DC	RGB	DMX
RGLED-S030	DMX controlled 30W LED light	SS 316	12-24V DC	RGB	DMX
RGLED-B031	Cool White LED light 30W	Brass	12-24V DC	Cool White	On/Off
RGLED-S031	Cool White LED light 30W	SS 316	12-24V DC	Cool White	On/Off
RGLED-B032	Warm White LED light 30W	Brass	12-24V DC	Warm White	On/Off
RGLED-S032	Warm White LED light 30W	SS 316	12-24V DC	Warm White	On/Off

*Add Suffix DMX to model number to order DMX controlled white light i.e RGLED-S031-DMX

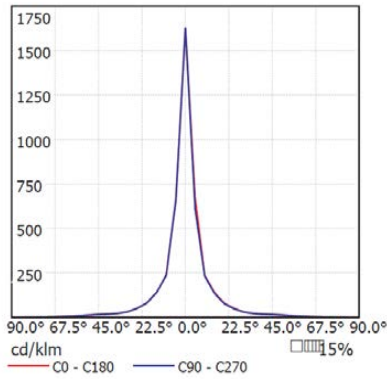
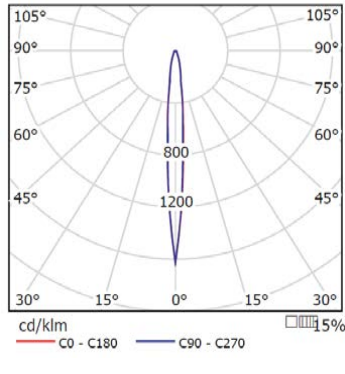
Accessory



Plastic adaptor is used to attach nozzles onto the light. To be installed into the central hole of the ring light fixture. 1" male threaded connection for nozzle, 1" female threaded connection for water inlet. Can be installed directly onto Paddle Flange (PF-100).

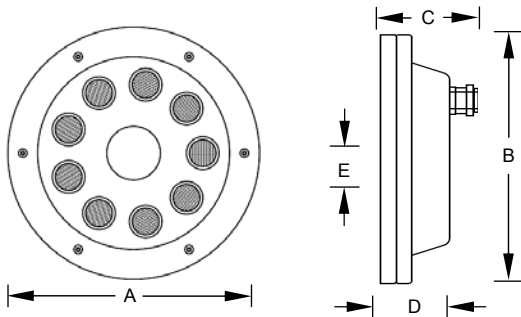
LED 30W Ring Light Fixture - RGLED Series

Light Distribution Curve:



Illuminance at Distance:

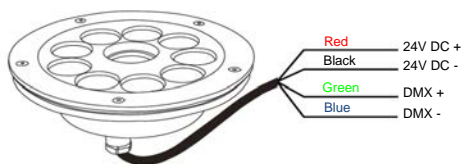
Distance	Centre Brightness	Beam Width
1m	3117 lux	26 cm
2m	780 lux	54 cm
3m	346 lux	80 cm
4m	194 lux	107 cm
5m	124 lux	134 cm



A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
169	169	68	49	36

Connection Diagrams:

The DMX lights require 4 cables to function correctly, two for power and two for data. If using with the pre-programmed mode for RGB DMX light, only the 24V DC power has to be provided. White LED lights only require 24V DC power supply (unless they are supplied with DMX control).

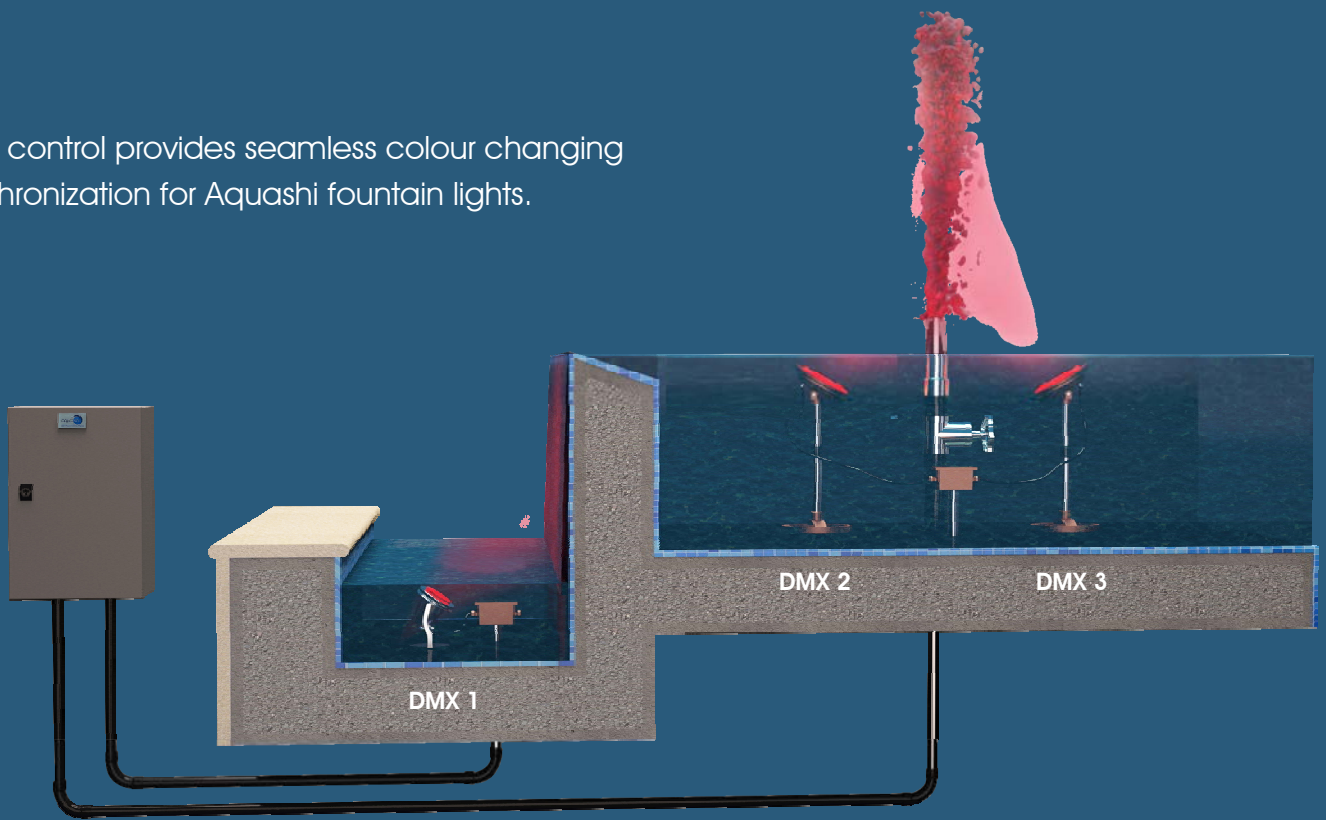


Cable connection for RGB DMX light

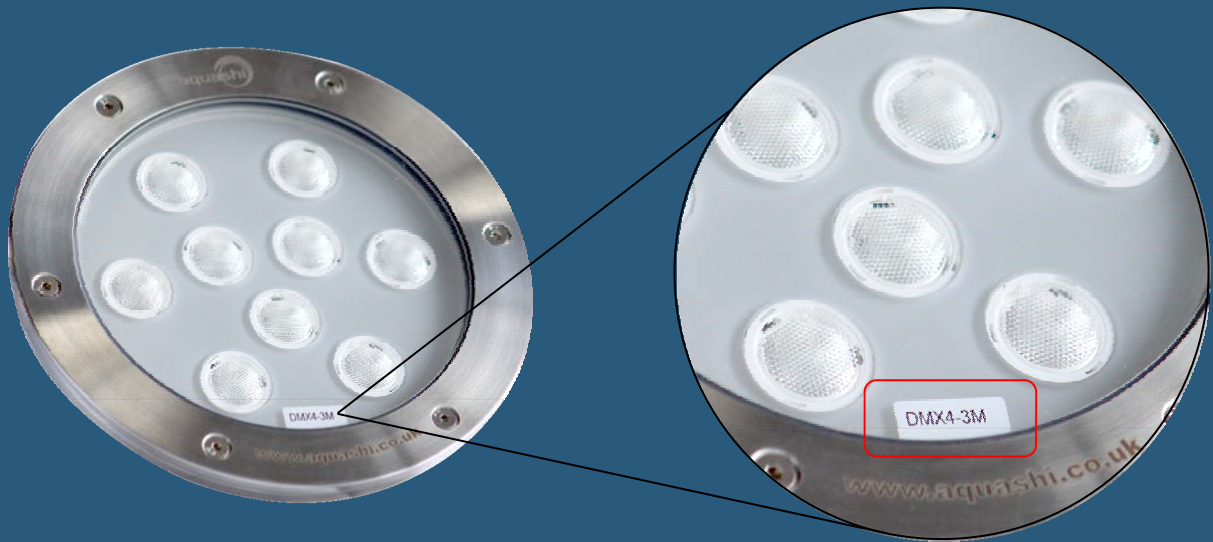


Cable connection for White

DMX control provides seamless colour changing synchronization for Aquashi fountain lights.



All our LED fountain lights are DMX controlled with a unique address.



The unique address allows the user to control each light individually, turning them on/off or changing colour. Lights can be addressed on request or supplied factory set.

LED 36W Ring Light Fixture - RGLLED 40 Series

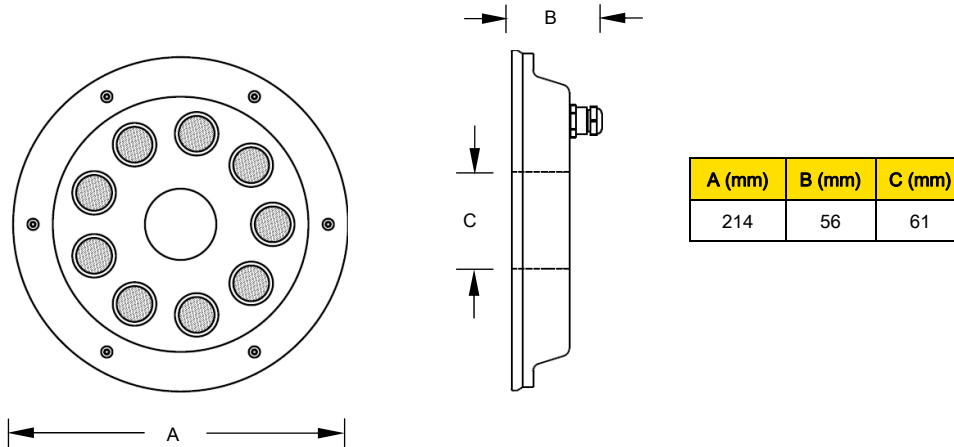
Function:

The underwater LED Ring lights can be used with a variety of fountain nozzles with its large central opening of 61mm. As the nozzle sits centrally within the light, the water jet is completely illuminated providing spectacular colours to the water jet with its RGBW colour changing technology. Ideal for sequenced fountains as the DMX controllability provides additional control for choreographed sequencing effects and virtual effects with water.



Specifications:

Power:	36W
Voltage:	24V DC
Colours:	RGBW (RGB & cool white)
Cable:	4 C - 0.75 mm ²
Standard Cable Length:	2 m (Custom length available on request)
LED:	12 numbers
Beam Angle:	30 ° as standard/ Optional 15/45 ° lens
Diameter/ Centre hole:	214 / 61 mm
Material:	Stainless steel 316/ Brass
Front Cover:	Clear Polycarbonate
Protection Rating:	IP 68



Model No.	Description	Material	Supply Voltage	Colour	Control
RGLLED-S040-24	DMX controlled 36W LED light	SS316	24V DC	RGBW	DMX
RGLLED-B040-24	DMX controlled 36W LED light	Brass	24V DC	RGBW	DMX



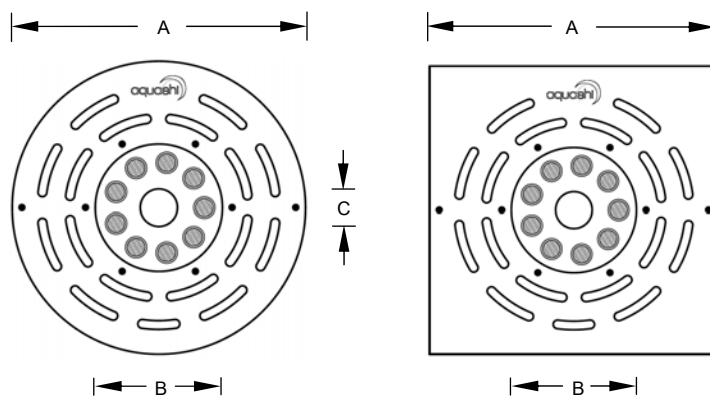
LED 30W Light fixture with slab hanger - SHLED Series

Function:

The Aquashi Slab Hangers are designed for dry deck fountain features. The slab hangers can be used with a variety of fountain nozzles including sequencing nozzles. They come complete with a 30 watt LED colour changing ring light giving spectacular colours to the water jets at night. The lights can be DMX controlled to operate in sequence with the nozzle. The robust design allows the end user to safely interact with the fountain.

Specifications:

Power:	30W
Voltage:	12-24V DC
Colours:	RGB - DMX / White DMX/ White
Cable:	4 C - 0.75 mm ² (DMX light) 2 C - 1.5 mm ² (White light)
Standard Cable Length:	2 m (Custom length available on request)
LED:	9 numbers
Beam Angle:	30 ° as standard (Optional 15 or 45 ° lens available on request)
Diameter/ Centre hole:	169/36 mm
Material:	Brass or Stainless steel 316
Front Cover:	Polycarbonate clear cover
Protection Rating:	IP 68
Finish:	Matte finish (mirror finish steel available on request)

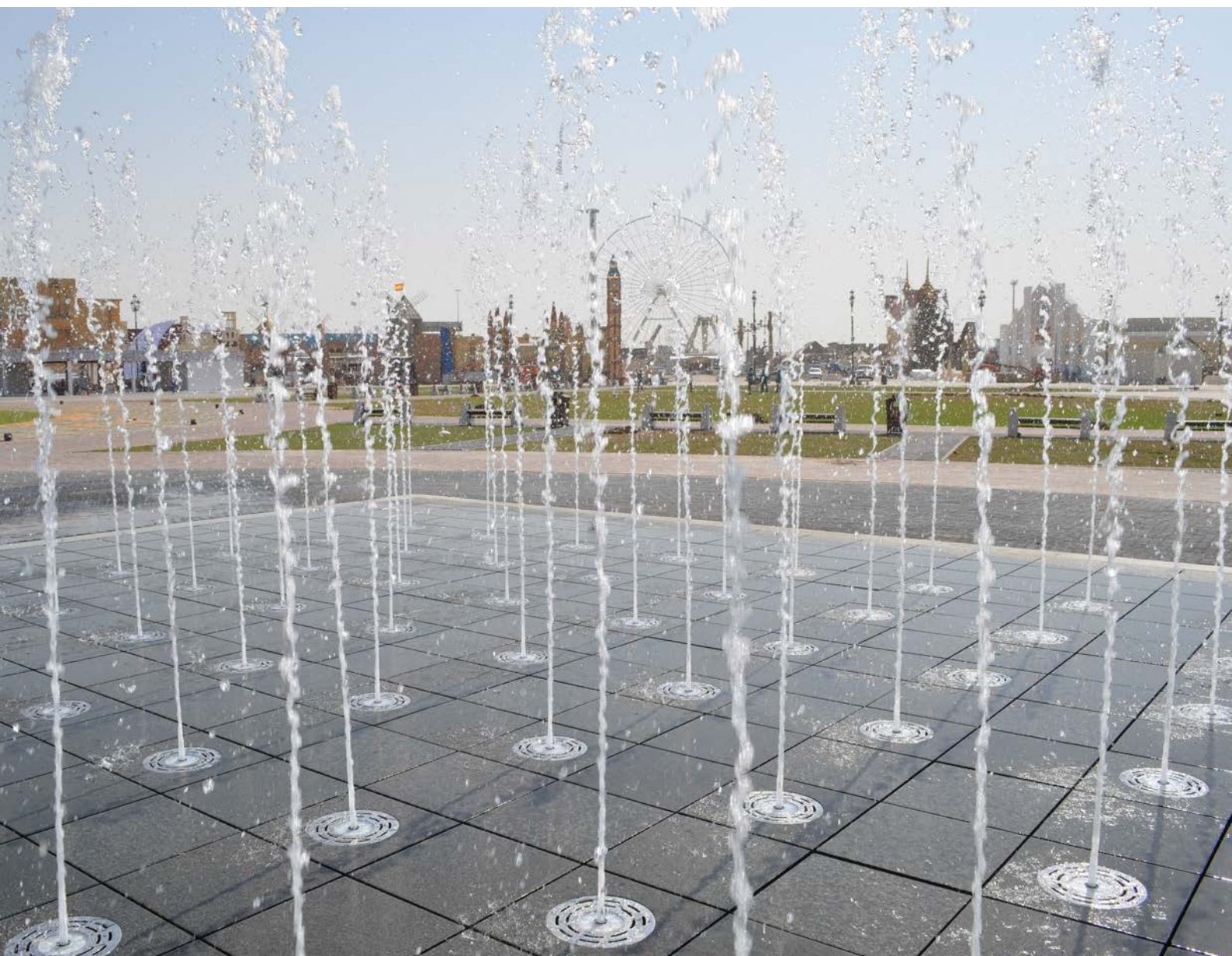


Model no.	Description	Shape	Material	A (mm)	B (mm)	C (mm)	Colour	Control
SHLED-S030S	Stainless steel LED light fixture with slab hanger	Square	SS 316	300	130	36	RGB	DMX
SHLED-S030R	Stainless steel LED light fixture with slab hanger	Round	SS 316	300	130	36	RGB	DMX
SHLED-B030S	Brass LED light fixture with slab hanger	Square	Brass	300	130	36	RGB	DMX
SHLED-B030R	Brass LED light fixture with slab hanger	Round	Brass	300	130	36	RGB	DMX

LED 30W Light fixture with slab hanger - SHLED Series

Model no.	Description	Shape	Material	A (mm)	B (mm)	C (mm)	Colour	Control
SHLED-S031S	Stainless steel LED light fixture with slab hanger	Square	SS 316	300	130	36	Cool White	On/off
SHLED-S031R	Stainless steel LED light fixture with slab hanger	Round	SS 316	300	130	36	Cool White	On/off
SHLED-B031S	Brass LED light fixture with slab hanger	Square	Brass	300	130	36	Cool White	On/off
SHLED-B031R	Brass LED light fixture with slab hanger	Round	Brass	300	130	36	Cool White	On/off
SHLED-S032S	Stainless steel LED light fixture with slab hanger	Square	SS 316	300	130	36	Warm White	On/off
SHLED-S032R	Stainless steel LED light fixture with slab hanger	Round	SS 316	300	130	36	Warm White	On/off
SHLED-B032S	Brass LED light fixture with slab hanger	Square	Brass	300	130	36	Warm White	On/off
SHLED-B032R	Brass LED light fixture with slab hanger	Round	Brass	300	130	36	Warm White	On/off

*Add Suffix DMX to model number to order DMX controlled white light i.e RGLLED-S031-DMX





Global Village - Dubai



Al Jalila Cultural Centre - Dubai

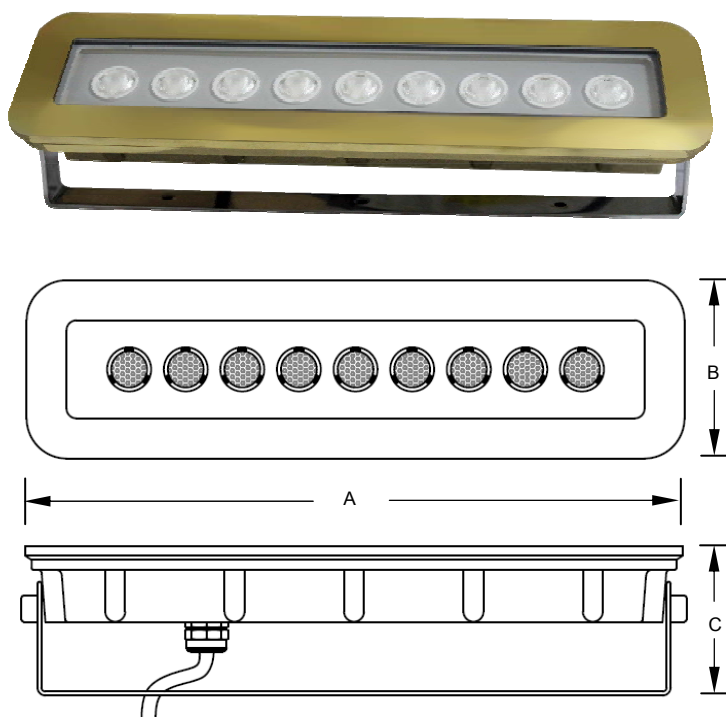
Linear LED light - LINLED Series

Function:

The Linear LED light is designed for up-lighting water walls & waterfalls. The slim design of the light and 180° angle adjustment enables it to be installed in small pools as well as larger features. DMX controlled for sequencing colour effects. The linear array of LEDs provides an even distribution of light when illuminating water walls thus reducing the 'hot spot' effect which is common with standard spot lighting.

Specifications:

Power:	30W
Voltage:	24V DC
Colours:	RGB - DMX / White DMX/ White
Cable:	4 C - 0.75 mm ² (DMX light) 2 C - 1.5 mm ² (White light)
Standard Cable Length:	2 m (Custom length available on request)
LED:	9 numbers
Material:	Cast Bronze, Brass and Stainless steel



Model no.	Description	A (mm)	B (mm)	C (mm)	Colour	Control
LINLED-030	DMX Controlled Linear RGB LED light	330	89	75	RGB	DMX
LINLED-031	Cool White Linear LED light	330	89	75	Cool White	On/off
LINLED-032	Warm White Linear LED light	330	89	75	Warm White	On/off

*Add Suffix 'DMX' to model number to order DMX controlled white light i.e LINLED-031-DMX

Free Standing Compact Halogen Light Fixture - FSC-S Series

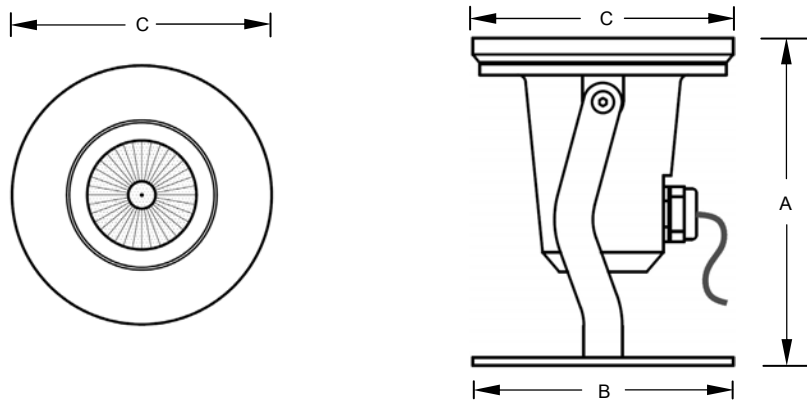
Function:

Free standing compact halogen light fixture in stainless steel 316, available in 35W, 50W and 75W MR16 dichroic lamp. Its attractive design and compact size makes it ideal for use in shallow pools and in tight surroundings where space is limited. The compact light fixtures comes with a solid stainless steel 316 base and allows angle adjustment. Fixture must be submerged while in operation.



Specifications:

- Colours: Warm white
- Material: Stainless steel 316
- Protection Rating: IP 68
- Voltage: 12V AC
- Power: 35W/ 50W/ 75W
- Cable: 2 C - 1.5mm²
- Standard cable length: 1.5 m (custom length available on request)



Model no.	Material	Power (W)	A (mm)	B (mm)	C (mm)
FSC-S035	Stainless Steel 316	35	120	95	95
FSC-S050	Stainless Steel 316	50	120	95	95
FSC-S075	Stainless Steel 316	75	120	95	95

Free Standing Compact LED Light Fixture - FSCLED Series

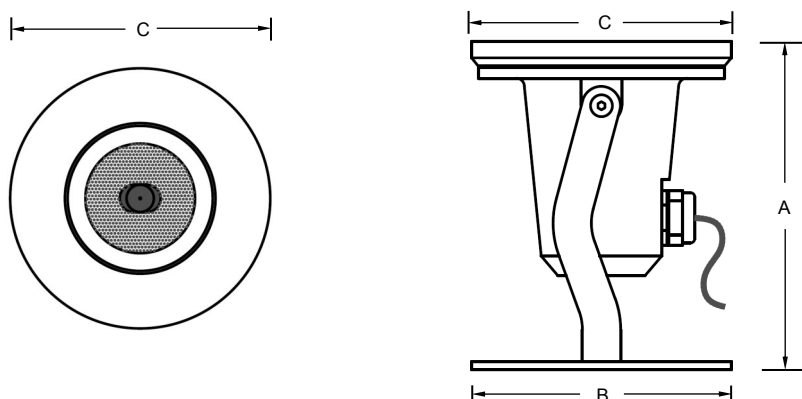
Function:

Free standing compact LED Light fixture in stainless steel 316, available in 5W white or 7.5W RGB DMX controlled. Each RGB light is supplied with an individual DMX address making it ideal for use with sequenced fountain systems providing spectacular colours to the water jets and pools at night. Its attractive design and compact size makes it ideal for use in shallow pools and in tight surroundings where space is limited. The compact light fixture comes with a solid stainless steel 316 base and allows angle adjustment.



Specifications:

Colours:	White/ RGB
Material:	Stainless steel 316
Protection Rating:	IP 68
Voltage:	24V DC
Power:	5W White 7.5W RGB (DMX controlled)
Cable size:	2C, 1.5mm ² (White light) 4C - 0.75mm ² (RGB - DMX Light)
Standard cable length:	1.5 m (custom length available on request)



Model No	Material	Colour	Power (W)	A (mm)	B (mm)	C (mm)	Control
FSCLED-S005	Stainless Steel 316	RGB	7.5	120	95	95	DMX
FSCLED-S010	Stainless Steel 316	Cool White	5	120	95	95	On/off
FSCLED-S011	Stainless Steel 316	Warm White	5	120	95	95	On/off

*Add Suffix DMX to model number to order DMX controlled white light i.e FSCLED-S010-DMX

Flush Mounted Compact Halogen Light Fixture - FMC Series

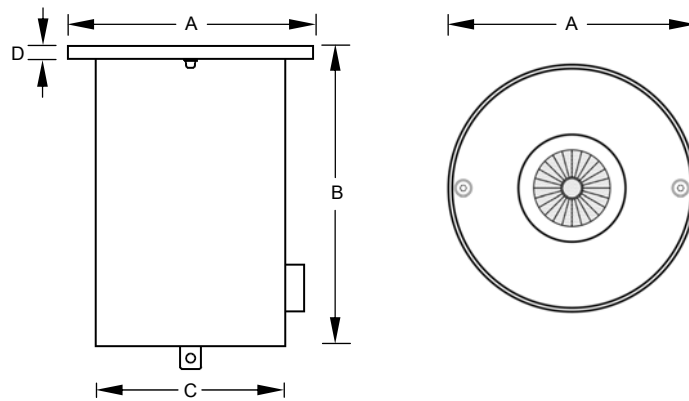
Function:

Flush Mounted Compact Halogen Light fixture in stainless steel 316, available in 35W, 50W and 75W MR16 dichroic lamp, ideal for use in fountains with shallow pools, Jacuzzis and swimming pools. Its attractive design and compact size makes it ideal for use in pools and fountains where cables and fittings should not be visible. Shallow pools with integral floor designs can be illuminated allowing clear visibility of the pool floor.



Specifications:

- Material: Face plate & light body stainless steel 316
Niche - stainless steel 304
- Protection Rating: IP 68
- Voltage : 12V AC
- Power: 35W/ 50W/ 75W
- Colour: Warm White
- Cable: 2 C - 1mm²
- Standard cable length: 1.5 m (custom length available on request)



Model no.	Material	Power (W)	A (mm)	B (mm)	C (mm)	D (mm)
FMC - S035	Stainless Steel 316	35	129	158	100	7
FMC - S050	Stainless Steel 316	50	129	158	100	7
FMC - S075	Stainless Steel 316	75	129	158	100	7

Flush Mounted Compact LED Light Fixture - FMCLED Series

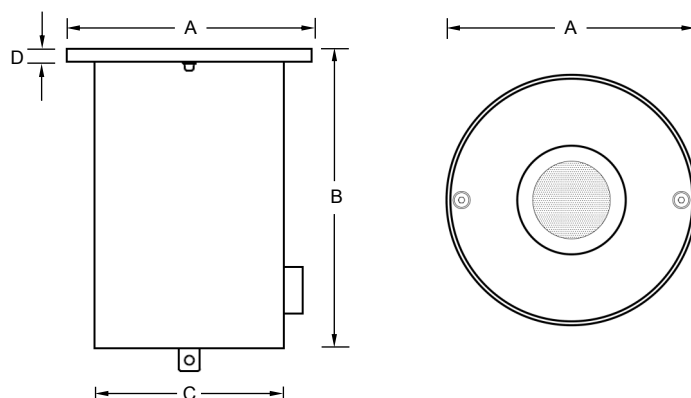
Function:

Flush mounted compact LED light fixture in stainless steel 316, available in 5W white or 7.5W RGB DMX controlled. Ideal for use in fountains with shallow pools. Jacuzzis and swimming pools. Each RGB light is supplied with an individual DMX address making it ideal for use with sequenced fountain systems providing spectacular colours to the water jets and pools at night. Its attractive design and compact size makes it ideal for use in pools and fountains where cables and fittings should not be visible. Shallow pools with integral floor designs can be illuminated allowing clear visibility of the pool floor.



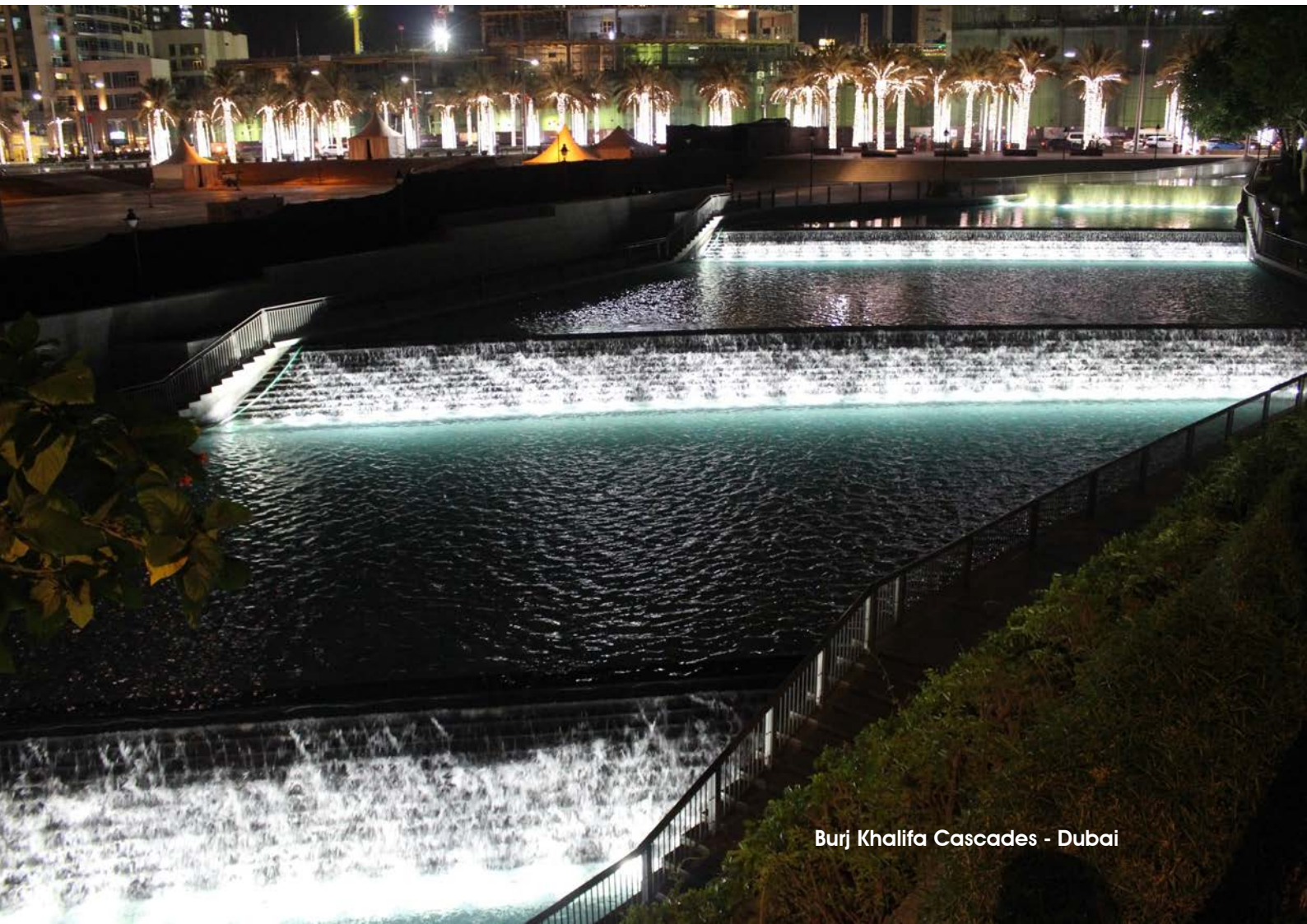
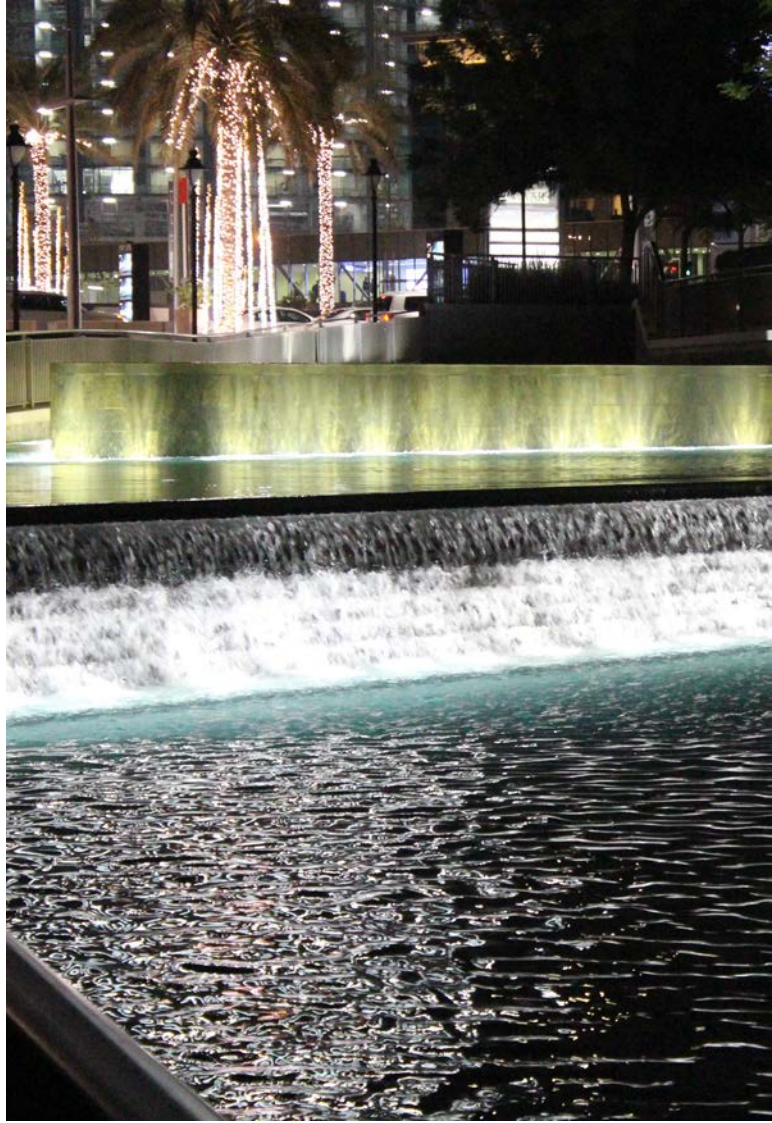
Specifications:

Colours:	White/ RGB
Material:	Face plate & light body stainless steel 316 Niche - stainless steel 304
Protection Rating:	IP 68
Voltage:	24V DC
Power:	5W White 7.5W RGB (DMX controlled)
Cable size:	2C, 1.5mm ² (White light) 4C - 0.75mm ² (RGB - DMX Light)
Standard cable length:	1.5 m (custom length available on request)



Model no.	Material	Colour	Power (W)	A (mm)	B (mm)	C (mm)	D (mm)	Control
FMCLED-S005	Stainless Steel 316	RGB	7.5	129	158	100	7	DMX
FMCLED-S010	Stainless Steel 316	Cool White	5	129	158	100	7	On/off
FMCLED-S011	Stainless Steel 316	Warm White	5	129	158	100	7	On/off

*Add Suffix DMX to model number to order DMX controlled white light i.e FMCLED-S010-DMX



Burj Khalifa Cascades - Dubai

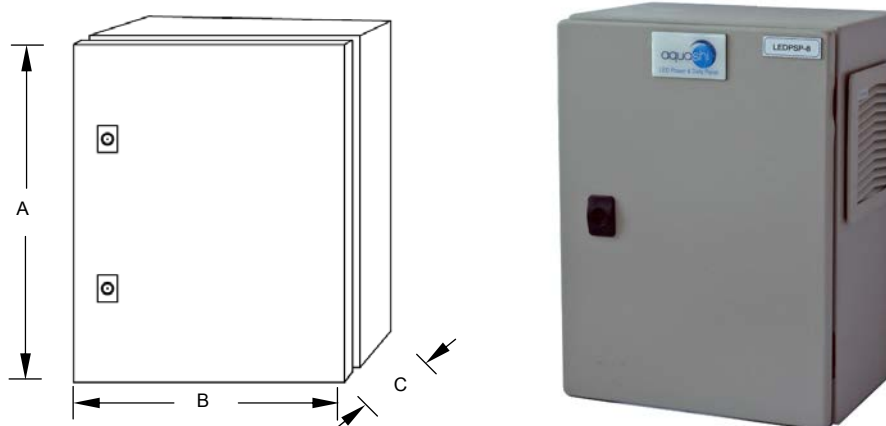
LED Power and Data Supply Panel - LEDPDS Series

Function:

LED Power and Data supply panel is used to supply power and data for Aquashi DMX controlled lights. A DMX splitter incorporated into the panel divides the power and data for each light. Pre-wired for easy installation. The LEDPDS should be used with a DMX Controller for controlling the lights. Available as 12V DC or 24V DC power supply.

Specifications:

Enclosure:	Galvanised Steel
Supply Voltage:	230V AC (110V Available on request)
Output Voltage:	12V DC/ 24V DC
Power:	240W/ 480W
Protection rating:	IP 55



Model no.	Output voltage	Power (W)	A (mm)	B (mm)	C (mm)
LEDPDS-240-12	12V DC	240	500	400	200
LEDPDS-480-12	12V DC	480	600	400	200

LEDPDS-240-24	24V DC	240	400	300	200
LEDPDS-480-24	24V DC	480	500	400	200

For use with LED light models:

- FSLED series
- RGLED series
- SHLED series
- LINLED series

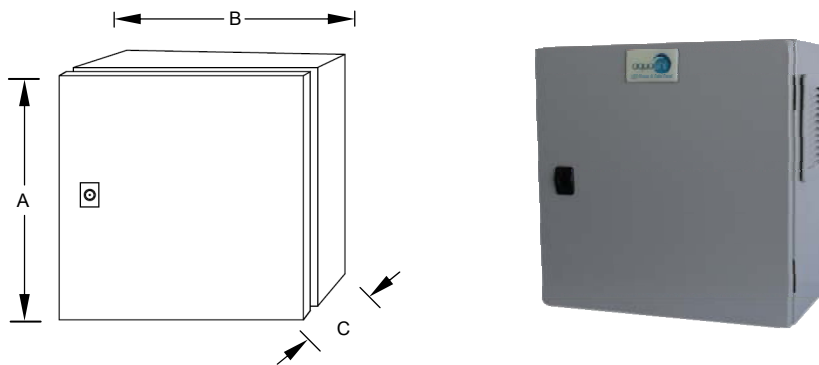
LED Power Supply Panel - LEDPS-60/ 120

Function:

The LEDPS-60/ 120 series power supply panels are used to supply power of up to 5 amps for 24VDC LED white or non-DMX controlled lights. Ideal for lower wattage lights such as the FSCLED or FMCLED series.

Specifications:

Enclosure: Galvanised Steel
 Supply Voltage: 230V AC (110V Available on request)
 Output Voltage: 24V DC
 Power: 60W/ 120W
 Protection rating: IP55



Model no.	Output voltage	Power (w)	A (mm)	B (mm)	C (mm)
LEDPS-60	24V DC	60	300	250	150
LEDPS-120	24V DC	120	300	300	150

For use with LED light models:

- FSCLED series
- FMCLED series

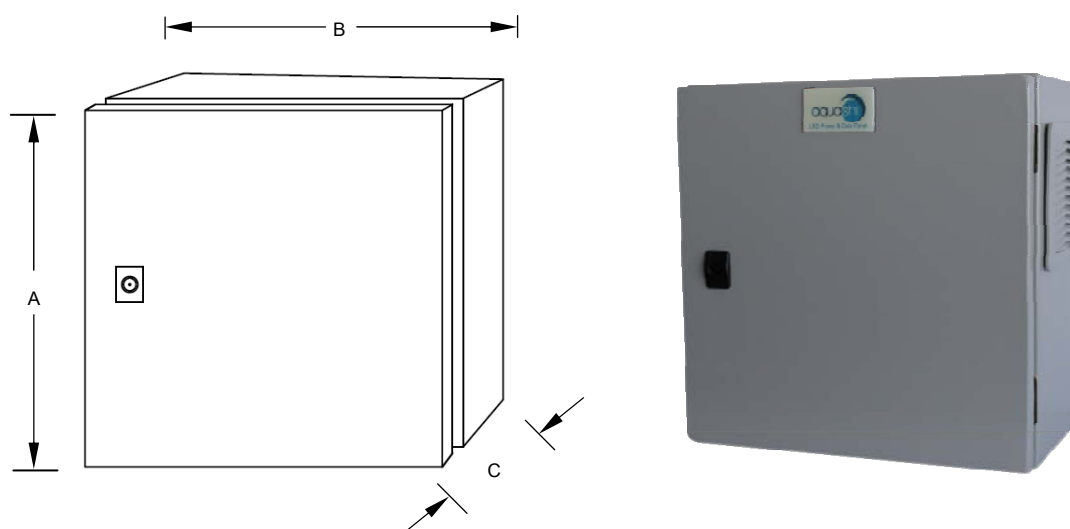
LED Power Supply Panel - LEDPS-240/ 480

Function:

The LEDPS-240/ 480 series power supply panels are used to supply 12V DC or 24V DC power up to 40 amps for LED white or non-DMX controlled lights. Each panel can supply power for up to 8 or 16 numbers of the 30W series lights.

Specifications:

Enclosure: Galvanised Steel
 Supply Voltage: 230V AC (110V Available on request)
 Output Voltage: 12V DC/ 24V DC
 Power: 240W/ 480W
 Protection rating: IP55



Model no.	Output voltage	Power (w)	A (mm)	B (mm)	C (mm)
LEDPS-240-12	12V DC	240	400	400	200
LEDPS-480-12	12V DC	480	500	400	200

LEDPS-240-24	24V DC	240	300	300	200
LEDPS-480-24	24V DC	480	400	400	200

For use with LED light models:

- FSLED series
- RGLLED series
- SHLED series
- LINLED series

DMX Lighting Controller - DMX-C200

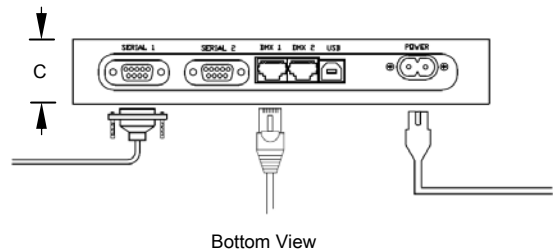
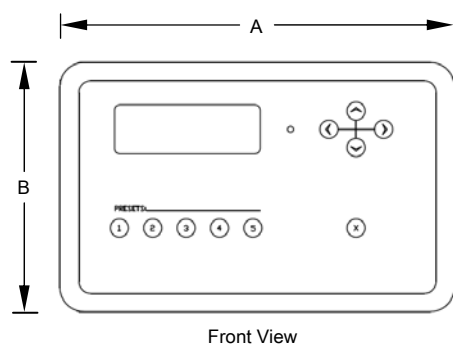
Function:

The DMX-C200 Lighting Controller is used for advanced LED lighting systems. It's programmable to create light shows for up to 340 RGB LED lights with individual addresses (see pg 59). The controller comes with an easy to use software for creating LED light effects*. An intuitive LED interface and push button keypad enables easy selection of up to eight light shows. A removable SD card storage allows the user to update lighting shows remotely.



Specifications:

Input Voltage: 100 - 240V AC
 DMX Channels: 512 X 2 (two DMX universes)



Model no.	A (mm)	B (mm)	C (mm)
DMX-C200	209	137	33

DMX Lighting Controller - DMX-C100

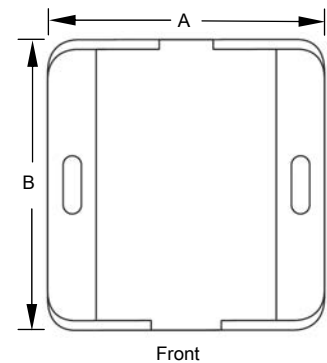
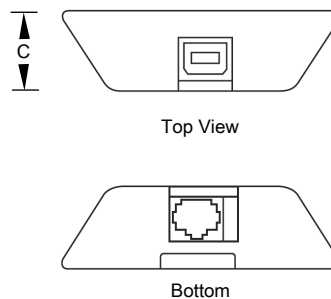
Function:

The DMX-C100 is used for smaller lighting applications to create light shows for up to 170 RGB LED lights with individual addresses. It is a standalone playback controller with a single program being looped indefinitely. The controller can be programmed with the easy to use software provided and can be configured for various colours and patterns for desired duration.



Specifications:

Input Voltage: 100 - 240V AC, 50 / 60Hz
 DMX Channels: 512 (one DMX universe)



Model no.	A (mm)	B (mm)	C (mm)
DMX-C100	89	79	25

*For customised light shows please contact Aquashi

Underwater Junction Box - JB Series

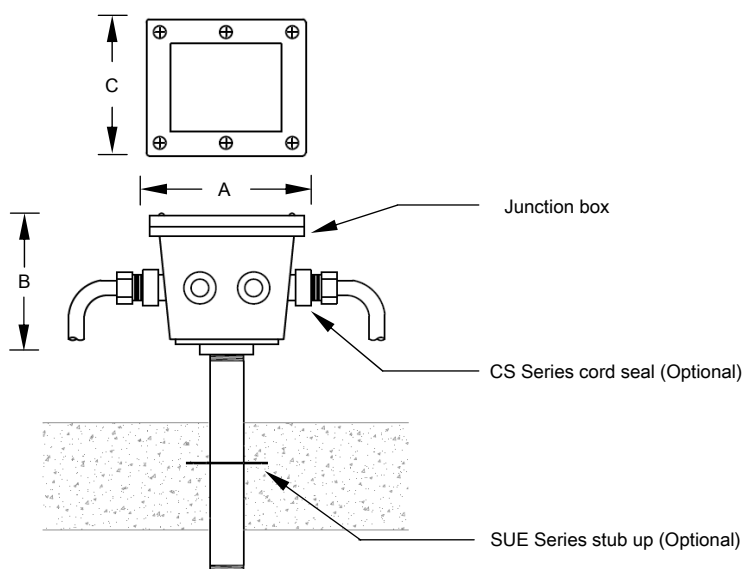
Function:

The cast bronze underwater junction boxes come in various sizes and are designed to accept naval brass compression cord seals (CS Series) providing water tight connections for flexible cords from under water light fixtures. The conduit mounted junction box comes complete with rubber gaskets and integrated earthing leg. All threaded connections must be installed with an approved water-sealing thread seal. Recommended to insulate with junction box sealant (PCR Series). Made of cast bronze with stainless steel fasteners.



Specifications:

Material:	Cast Bronze with stainless steel fasteners
Protection rating:	IP68
Connection Size (sides) :	1/2"
Connection Size (bottom):	3/4" to 1 1/2" (see table below)



Model no.	No. of ways	Bottom Inlet (BSP)	A (mm)	B (mm)	C (mm)
JB-2	2	3/4"	104	70	82
JB-4	4	3/4" - 1"	112	80	112
JB-8	8	1" - 1 1/2"	139	85	139
JB-12	12	1 1/2"	139	120	139

Flush Mounted Junction Box - JBF Series

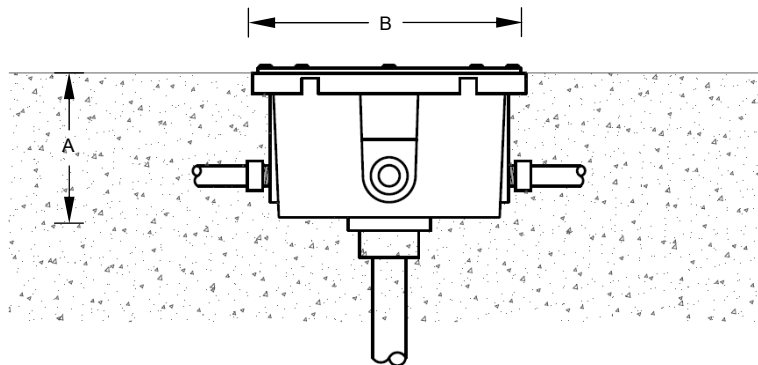
Function:

The Flush mounted junction boxes are designed to be installed flush with the finished floor level. Its deep base allows sufficient cover over the conduits for screed and tiling works. Complete with rubber gaskets and integrated earthing leg the junction box is IP68 rated for underwater or deck level installation. All threaded connections must be installed with an approved water-sealing thread seal. Recommended to insulate with junction box sealant (PCR Series) for underwater installations. Made of cast bronze with stainless steel fasteners.



Specifications:

Material:	Cast Bronze with stainless steel fasteners
Protection rating	IP68
Connection Size (sides):	1/2"
Connections Size (bottom):	3/4" to 1" (see table below)



Model no.	No. of ways	Bottom Inlet (BSP)	A (mm)	B (mm)
JBF-4	4	3/4"	90	166
JBF-8	8	1"	90	166

Moveable Junction Box - JBM Series

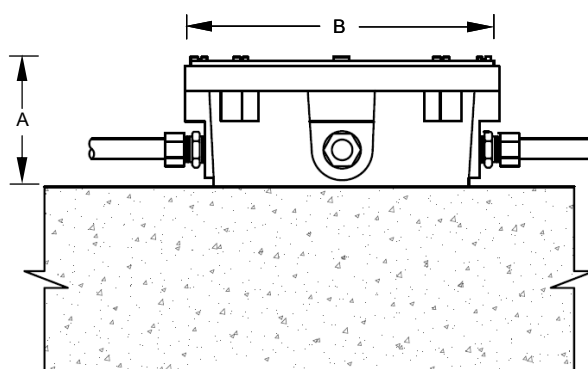
Function:

The Moveable junction box is designed to be portable depending on the installation requirement. Its flat bottom base allows the user to move the junction box along the pool floor to the desired location. Complete with rubber gaskets and integrated earthing leg the junction box is IP68 rated for underwater or deck level installation. All threaded connections must be installed with an approved water-sealing thread seal. Recommended to insulate with junction box sealant (PCR Series) for underwater installations. Made of cast bronze with stainless steel fasteners.



Specifications:

Material:	Cast Bronze with stainless steel fasteners
Protection rating:	IP 68
Connection Size (sides):	1/2" to 3/4"



Model no.	No. of ways	A (mm)	B (mm)
JBM-4	4	65	166
JBM-8	8	90	166

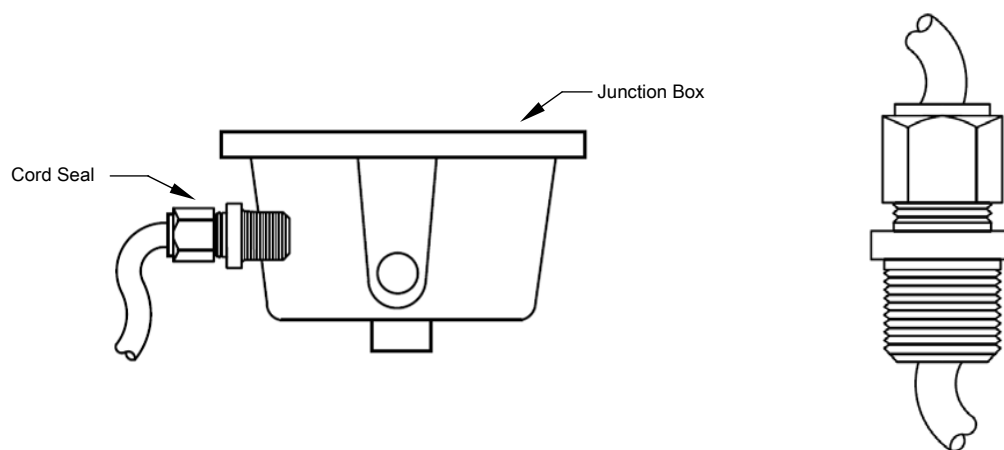
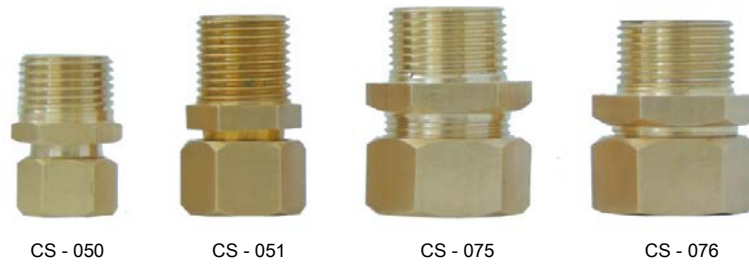
Cord Seals - CS Series

Function:

Brass compression cord seals are used to provide a water tight connection of underwater cables connecting to junction boxes.

Specifications:

Material: Brass
 Connection type: Male Thread



Model no.	Connection (BSP)	Suitable Cables
CS-050	1/2"	2C X 1mm ² , 2C X 1.5mm ² , 4C X 0.75 mm ²
CS-051	1/2"	3 Core X 2.50 mm ²
CS-075	3/4"	4 Core X 4 mm ²
CS-076	3/4"	3 Core X 6 mm ²

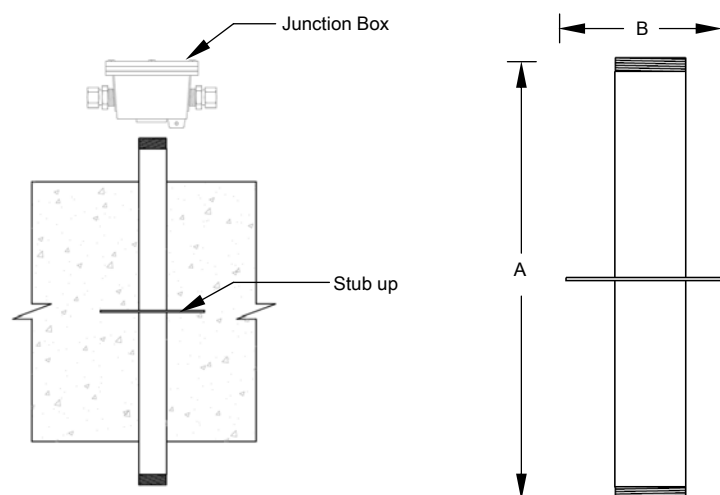
Stub up - Electrical - SUE Series

Function:

Stainless steel conduit stub ups provide a water tight, secure and strong penetration through concrete into fountain pool floors or walls. Provided with a threaded connection on either side, the cast bronze junction boxes are threaded down securely on top. Works with JB series bronze underwater junction boxes.

Specifications:

Material: Stainless steel 316
 Connection type: Male Thread



Model No.	Inlet / Outlet (BSP)	A (mm)	B (mm)
SUE-050	1/2"	400	120
SUE-075	3/4"	400	120
SUE-100	1"	400	120
SUE-125	1 1/4"	400	120
SUE-150	1 1/2"	400	120
SUE-200	2"	400	150

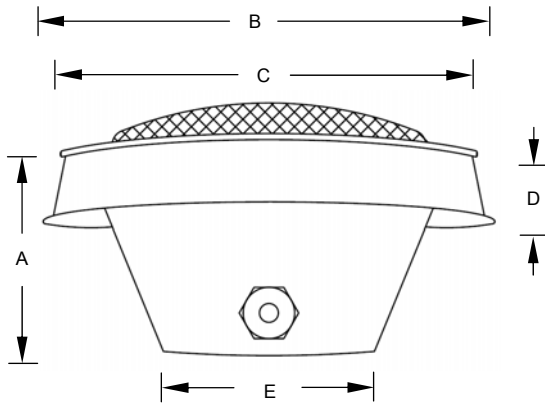
Swimming Pool Halogen Light - Concrete

Function:

Fitted with a PAR 56 300W halogen bulb, the stainless steel swimming pool light provides illumination for your pools while being an attractive feature with its mirror finished body. The material is corrosion proof and chemical resistant.

Specifications:

- Power: 300 W
- Voltage: 12V AC
- Colour: Warm white
- Lamp Life: 1000 + Hrs
- Material: Stainless Steel 316
- Protection rating: IP 68
- Cable: 2C, 4mm²
- Standard Cable length: 2.5m



Model no.	Power (W)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
LSP-S300	300	140	325	300	45	152

Underwater LED Light - Concrete - LSP Series

Function:

Niche mounted underwater LED light suitable for concrete pools. Available in white or colour changing LED, the light consists of a stainless steel 316 face plate and stainless steel or ABS niche. The LED lamp is fully sealed so water cannot penetrate or damage the fixture. The light fitting is corrosion and chemical resistant. Fitted with a 35W or 50W LED bulb.

Specifications:

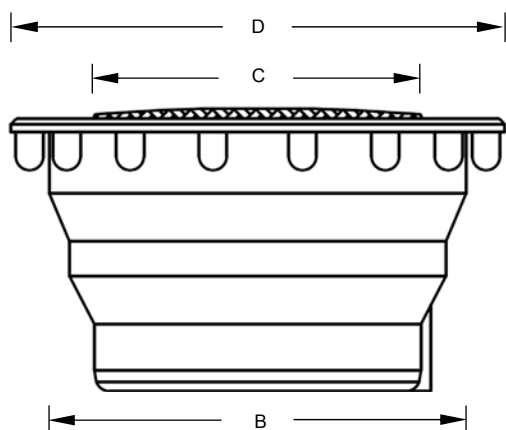
Power: 35/ 50W
 Voltage: 12V AC
 Colour: RGB/White
 Lamp Life: 30,000 + Hrs
 Material: 316 Stainless Steel face plate and ABS/ Stainless Steel niche
 Protection rating: IP 68
 Cable: 2C, 1mm²
 Standard cable length: 4m



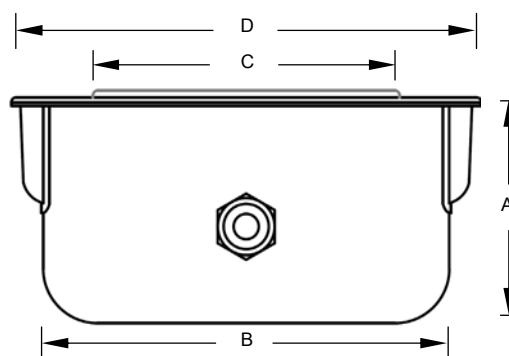
ABS Niche



Stainless Steel Niche



ABS Niche



Stainless Steel Niche

Model no.	Colour	Niche Type	Power (W)	Voltage (V AC)	Lumens (lm)	A (mm)	B (mm)	C (mm)	D (mm)
LSP-PLW-400B-ABS	Cool White	ABS	35	12	1766	137	216	170	260
LSP-PLW-700B-ABS	Cool White	ABS	50	12	2921				
LSP-PLS-400B-ABS	RGB	ABS	35	12	627				
LSP-PLS-700B-ABS	RGB	ABS	50	12	1028				

Model no.	Colour	Niche Type	Power (W)	Voltage (V AC)	Lumens (lm)	A (mm)	B (mm)	C (mm)	D (mm)
LSP-PLW-400B-SS	Cool White	SS	35	12	1766	125	225	170	260
LSP-PLW-700B-SS	Cool White	SS	50	12	2921				
LSP-PLS-400B-SS	RGB	SS	35	12	627				
LSP-PLS-700B-SS	RGB	SS	50	12	1028				



Al Barrari Villas - Dubai

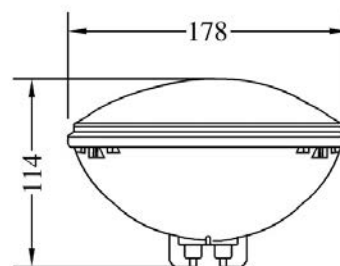
PAR 56 LED Lamp

Function:

PAR 56 LED Lamps are suitable for swimming Pools, fountains, decorative or display lighting. The LED lamps come in single or multicolour (RGB) providing a range of colours and effects which can create a special ambience to the pool depending on the users mood or special occasions. The LED lamps are eco friendly and are big power savers when compared to traditional halogen lamps. PAR 56 LED Lamps can be installed in existing light fixtures without the need to replace them.

Benefits:

- Long life span. The life span of Par 56 LED lamp is between 30,000 to 50,000 hours when compared to the traditional halogen lamps of only 1,000-2,000 hours.
- LED Lights are energy efficient; consuming less power while providing the same illumination as the traditional halogen lights. The LED Par 56 lamp consumes only 40 watt of power when compared to the Halogen 300 watt Par 56 lamp. A saving of 7.5 times the electrical consumption and costs.
- Set the colour to suit your mood. With the hand held remote control operation, you can change the colour of the pool to suit the occasion.



RM-100

Specifications:

Power:	40W
Voltage:	12V AC
Colour:	Available in Red/Green/Blue/RGB/Warm White/ Cool White
Lamp Life:	30,000 + Hrs
LED:	558 numbers

Item	Model Number
RGB Lamp	LEDP56-40RGB
Warm white 2700-3500K	LEDP56-40WW
Cool white 5500-6500K	LEDP56-40CW
Remote with receiver	RM-100

Lamps are also available in power ratings of 18W/25W/35W/54W upon request.

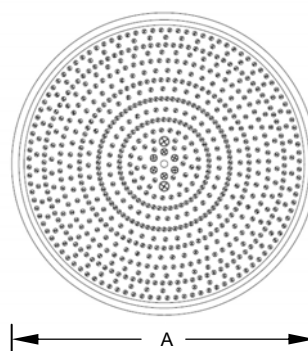
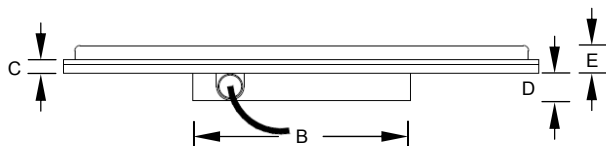
Ultra Flat LED Lamps - PL Series

Function:

The Ultra flat LED lamps are suitable for swimming Pools, fountains, decorative or display lighting. The LED lamps come in single or multicolour (RGB) providing a range of colours and effects which can create a special ambience to the pool depending on the users mood or special occasions. The LED lamp is fully sealed so water cannot penetrate or damage the fixture. The Ultra flat LED lamps can be installed in existing PAR 56 light fixtures without the need to replace them.

Specifications:

Supply Voltage:	12V AC
Power:	35W / 50W
Colour:	RGB / White
Protection rating:	IP 68
Cable:	2C, 1mm ²
Standard cable length:	4m



Benefits:

- Long life span. The life span of ultra flat LED lamp is between 30,000 to 50,000 hours when compared to the traditional halogen lamps of only 1,000-2,000 hours.
- LED Lights are energy efficient; consuming less power while providing the same illumination as the traditional halogen lights. The ultra flat LED lamp consumes only 35 watt of power when compared to the 300 watt Par 56 Halogen lamp. A saving of 8.5 times the electrical consumption and costs.
- Set the colour to suit your mood. With the hand held remote control operation, you can change the colour of the pool to suit the occasion.
- Fully sealed so that water cannot penetrate or damage the fixture.

Controllers:

The colour LED lights can be controlled by turning off and on. The RF remote is designed to work with this product.

Model no.	Colour	Power (W)	Voltage (V)	Lumens (lm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
PLW-400B	Cool White	35	12	1766	175	80	5	10	10
PLW-700B	Cool White	50	12	2921	175	80	5	10	10
PLS-400B	RGB	35	12	627	175	80	5	10	10
PLS-700B	RGB	50	12	1028	175	80	5	10	10

Ultra Flat LED Lamps - PL Series

Colour effects:



RF Remote

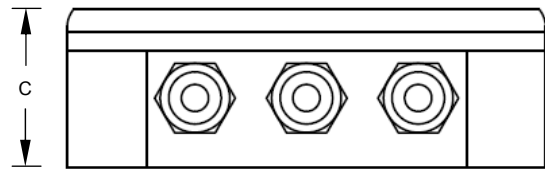
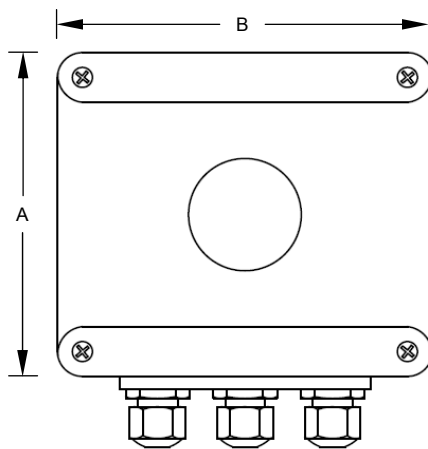
Function:

The RF Remote wirelessly controls LED lights via a handheld remote and receiver. The remote has a range of up to 85 meters. There are two additional outputs available on the receiver which can be used for other equipment that can be electronically controlled.



Specifications:

Voltage: 230V AC
 Number of outputs: 3
 Protection rating: IP 65



Model No.	A (mm)	B (mm)	C (mm)
RM-200	130	150	50

Compatible Products:

- Par56 LED Lamp
- Ultra Flat LED Lamp
- Fire bowls (Automatic)

Deck Box

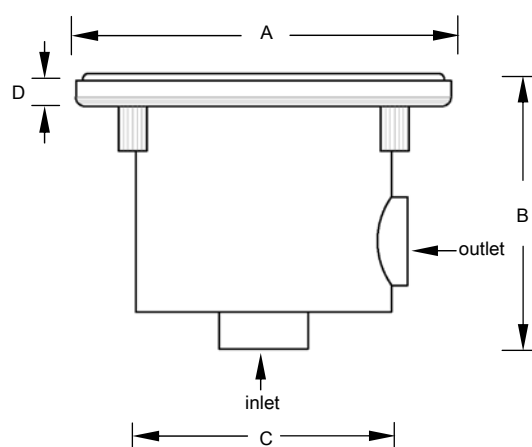
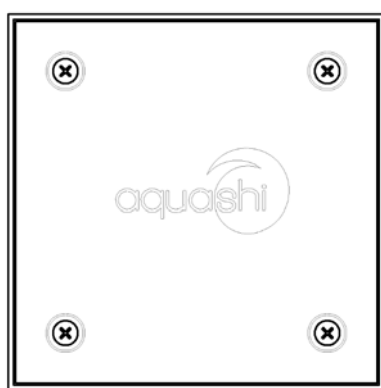
Function:

Stainless steel electrical box with o-ring seal for water tight electrical connections. Designed for deck level installation in wet or dry locations.



Specifications:

Material:	SS316
Protection rating:	IP67
Connection Size (sides) :	1/2"
Connection Size (bottom):	1"



Model No.	No of Outlets	A (mm)	B (mm)	C (mm)	D (mm)
DEB-1	1	132	94	90	9
DEB-2	2	132	94	90	9
DEB-3	3	132	94	90	9
DEB-4	4	132	94	90	9

Transformer - TFR Series

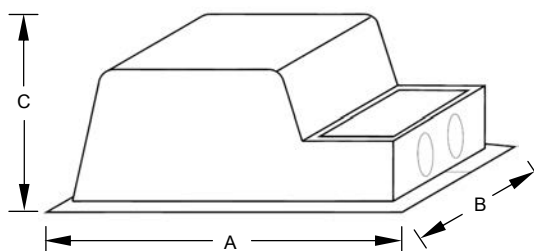
Function:

The special protected transformers are suitable for water features or swimming pools where there is a requirement for 12V AC or 24V AC voltages for lighting or any other applications. The output power ranges from 150VA to 800VA. The transformer is encapsulated in cast resin material protected by a plastic box. The special protection cover isolates the transformer from any water splashes or other extreme conditions.



Specifications:

Power:	150VA, 300VA, 350VA, 800VA
Input Voltage:	220 - 240V AC
Output Voltage:	12V, 24V, 13/14/15/16V AC
Protection Rating:	IP 65



Model No.	Output Voltage (V) AC	Power (VA)	A (mm)	B (mm)	C (mm)
TFR-151	12	150	225	180	110
TFR-152	24	150	225	180	110
TFR-301	12	300	225	180	110
TFR-302	24	300	225	180	110
TFR-303	13/14/15/16	300	225	180	110
TFR-801	12	800	278	203	92
TFR-802	24	800	278	203	92
TFR-803	13/14/15/16	800	278	203	92

Controls



Water Level Controller - WLC Series	90
Hydraulic Water Level Controller - HLC Series	91
Water Level Sensor - WLS Series	92
Compact Water Level Sensor - WLS - C Series	93
Floor Water Level Sensor - FLS Series	94
Solenoid Valve - SVP Series	95
Solenoid Valve - SVB Series	96
Wind level Controller with Anemometer- WCA Series	97

Water Level Controller - WLC Series

Function:

The water level control panel is used in conjunction with solenoid fill valves and water level sensors to monitor water levels in a fountain or pool. It can monitor up to three water level operations depending on model selected. Operates on 220 volts (110V model available on request). Compatible with WLS & FLS series water level sensors.

Quick-Fill Operation:

Fills or replenishes pool water loss by opening fresh water supply to pool.

Safe-off Operation:

Shuts off in-pool electrical (lighting/pumps) during low water level situations.

Max. Level Control:

With the inclusion of a third level sensor, applications are expanded i.e,

- To signal a high water level in traditional fountains
- Regulate start-up and shut down water volumes on water fall applications
- More precision control of high and low water volumes

Specifications:

Supply voltage:	220V AC (110V available on request)
Protection rating:	IP 65
Quick fill output voltage:	24V AC
Safe off signal output:	Same as supply voltage



Model no.	A (mm)	B (mm)	C (mm)	No. Of Sensors
WLC-100	215	175	100	1
WLC-200	215	175	100	2
WLC-300	300	250	160	3

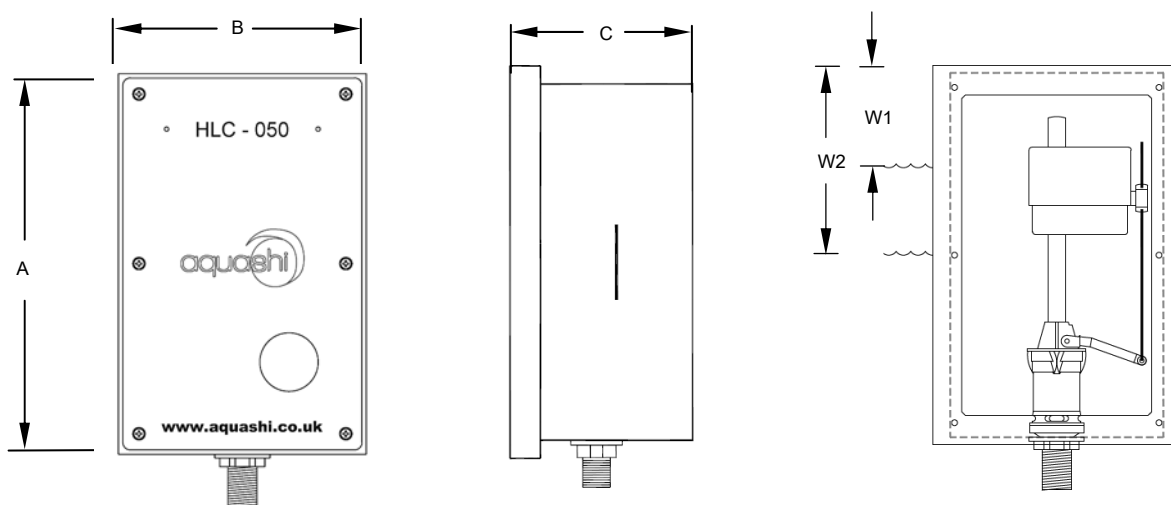
Hydraulic Water Level Controller - HLC Series

Function:

The hydraulic water level controller consist of a hydraulic float switch and an automatic fill valve which is activated when the water goes below the set point. This particular water level controller does not require electric power supply.

Specifications:

Material: Stainless Steel 316
 Connection type: Male thread



Model no.	Inlet (BSP)	A (mm)	B (mm)	C (mm)	Highest Maximum W1 (mm)	Lowest Maximum W2 (mm)
HLC-050	1/2"	260	160	150	50	115

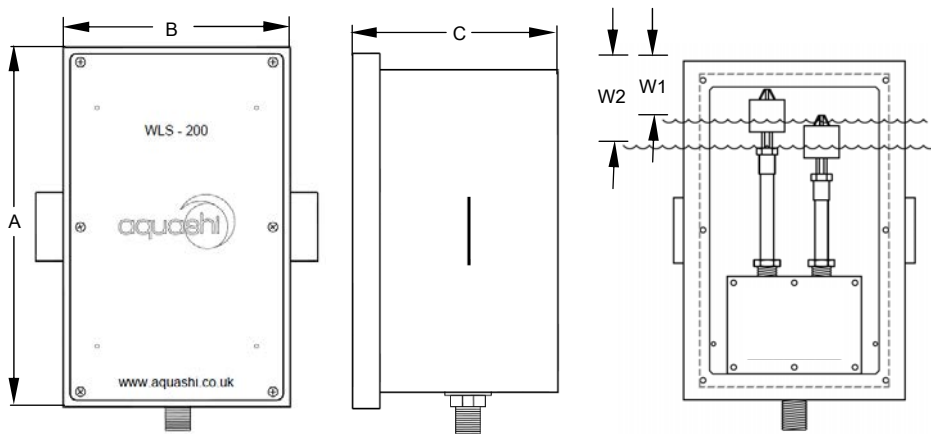
Water Level Sensor - WLS Series

Function:

Wall mounted electronic water level sensor automatically monitors quick fill and safe off functions. Low Voltage for safety. To be used in conjunction with the WLC series Water level controller for controlling solenoid valves or any other requirement. Available in two models with 1 or 2 adjustable sensors for quick fill and/or safe-off functions.

Specifications:

Material: Stainless steel 316 body, Bronze junction box and brass stubs
 Connection Type: Male thread



Model no.	Inlet (BSP)	No. of Sensors	A (mm)	B (mm)	C (mm)	W1 (mm)	W2 (mm)
WLS-100	1/2"	1	260	160	150	45	65
WLS-200	1/2"	2	260	160	150	45	65

Compact Water Level Sensor - WLS-C Series

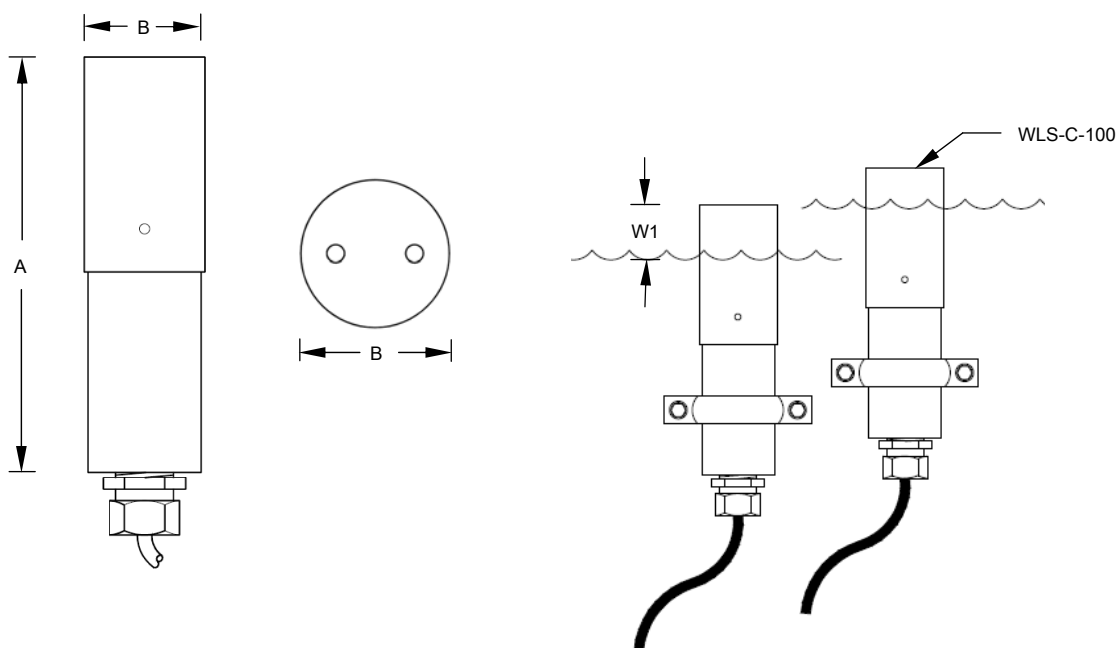
Function:

The compact electronic water level sensor automatically monitors quick fill or safe off functions. To be used in conjunction with the WLC series Water level controller for controlling solenoid valves or other equipment. The compact sensor is supplied as an individual module with a single sensor. Its ergonomic design helps to retain the aesthetic appearance of fountain feature. Multiple modules can be used together with WLC series water level controllers for desired water level control application. The modular design allows multiple water level sensors to be mounted at varying heights as per site requirements. Low Voltage for safety.



Specifications:

Material:	Stainless steel 316 body with brass cord seal
Cable:	2 core, 1.5 mm ²
Standard cable length:	2m
Protection rating:	IP 68



Model no.	No. of Sensors	A (mm)	B (mm)	W1 (mm)
WLS-C-100	1	145	42	38

Floor Water Level Sensor - FLS Series

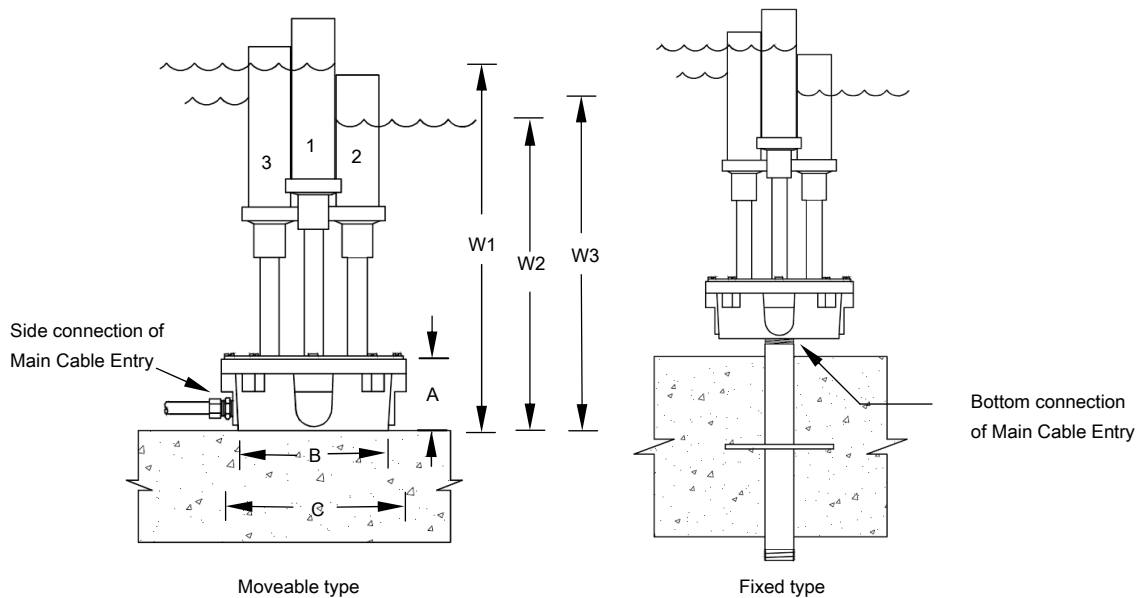
Function:

The Floor water level sensor can be installed as a fixed or movable sensor. The fixed type can be installed on a electrical stub up while the moveable type is connected with a flexible cable on the side enabling it to be moved within the reach of the cable. The electronic sensor(s) automatically monitor quick fill and safe off functions. The sensors are adjustable in height. Low Voltage for safety. To be used in conjunction with Water level controller for controlling solenoid valves or other requirement. Available in three types with 1, 2 or 3 sensors for quick fill, safe-off or maximum level control.



Specifications:

Material: Cast Bronze, Brass and Stainless steel
 Connection type: Male Thread
 Protection rating: IP 68



Model no.	Inlet (BSP)	No. of Sensors	A (mm)	B (mm)	C (mm)	W1 (mm)	W2 (mm)	W3 (mm)	Type
FLS-F-100	1/2"	1	63	133	155	325			Fixed
FLS-F-200	1/2"	2	63	133	155	325	303		Fixed
FLS-F-300	3/4"	3	63	133	155	325	303	314	Fixed
FLS-M-100	1/2"	1	63	133	155	325			Moveable
FLS-M-200	1/2"	2	63	133	155	325	303		Moveable
FLS-M-300	3/4"	3	63	133	155	325	303	314	Moveable

Solenoid Valve - SVP Series

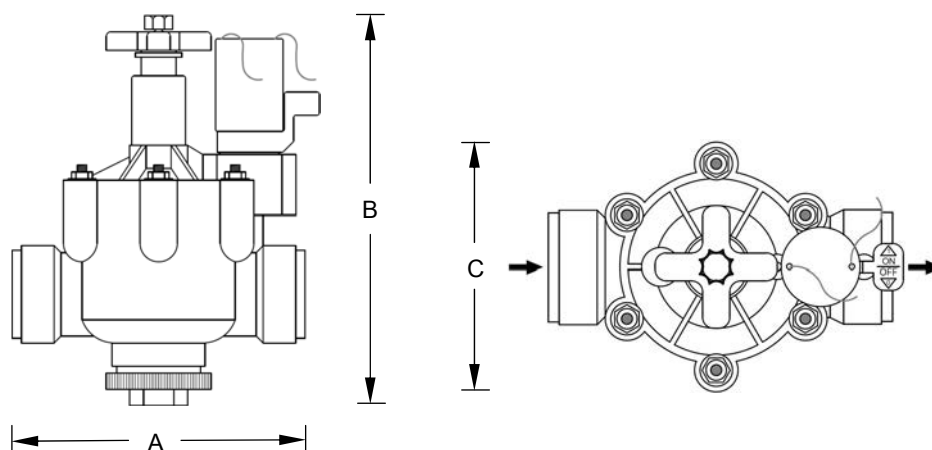
Function:

PVC Solenoid fill valve to be used in conjunction with Water level controller to automatically maintain the water level inside the pool. Facilitates manual shut off and slow closure and opening to avoid water hammer.



Specifications:

Trigger voltage:	24V AC, 50/60Hz
Inrush Current:	0.4A
Holding Current:	0.2A
Material:	PVC
Pressure:	0.7 to 14 Bar
Flow:	19 to 1135 LPM
Connection type:	Female thread



Model no.	Inlet/Outlet (BSP)	A (mm)	B (mm)	C (mm)
SVP-100	1"	114	152	121
SVP-150	1 1/2"	140	165	121
SVP-200	2"	171	178	197

Solenoid Valve - SVB Series

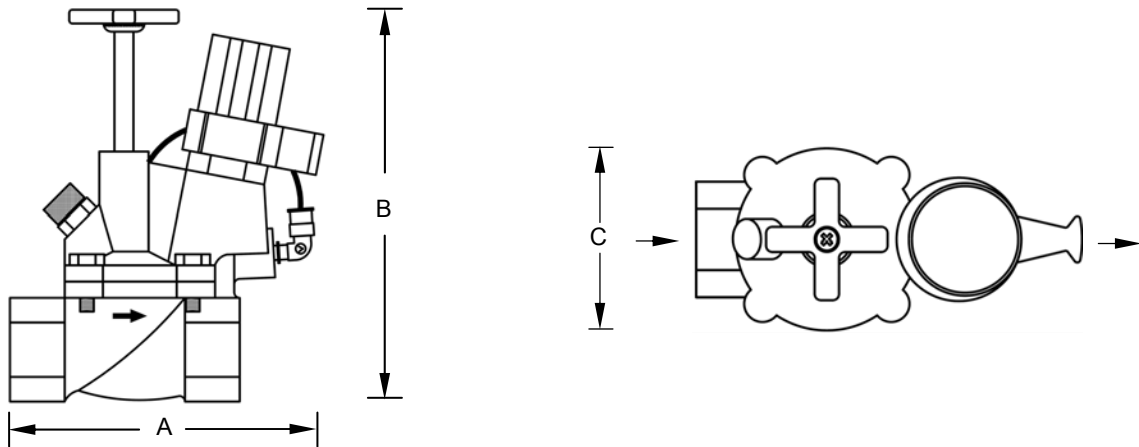
Function:

Brass Solenoid fill valve to be used in conjunction with Water level controller to automatically maintain the water level inside the pool. Facilitates manual shut off and slow closure and opening to avoid water hammer.



Specifications:

- Trigger voltage: 24V AC, 50/60Hz
- Inrush Current: 0.41A
- Holding Current: 0.28A
- Material: Brass
- Pressure: 1 to 14 Bar
- Flow: 19 to 757 LPM
- Connection type: Female thread



Model no.	Inlet/Outlet (BSP)	A (mm)	B (mm)	C (mm)
SVB-100	1"	114	152	83
SVB-150	1 1/2"	140	165	114
SVB-200	2"	171	178	146

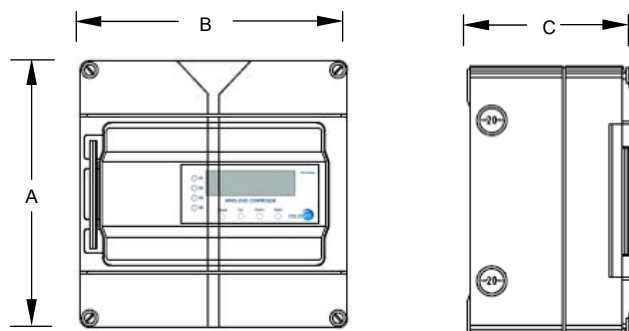
Wind level Controller with Anemometer - WCA Series

Function:

The WCA series anemometer and wind level controller accurately monitors wind speeds from 0-49 m/s. The wind controller will adjust the fountain controls with up to 4 outputs in high/ low wind conditions to enable a continuous and smooth running of the fountain. The wind sensitivity can be adjusted according to fountain design and specification using the digital wind controller set points. These can be set to high and low wind level set points in which the system can be shut down or controlled as per requirement. The WCA series controller comes complete with anemometer, wind level controller, power supply unit and weather proof enclosure.

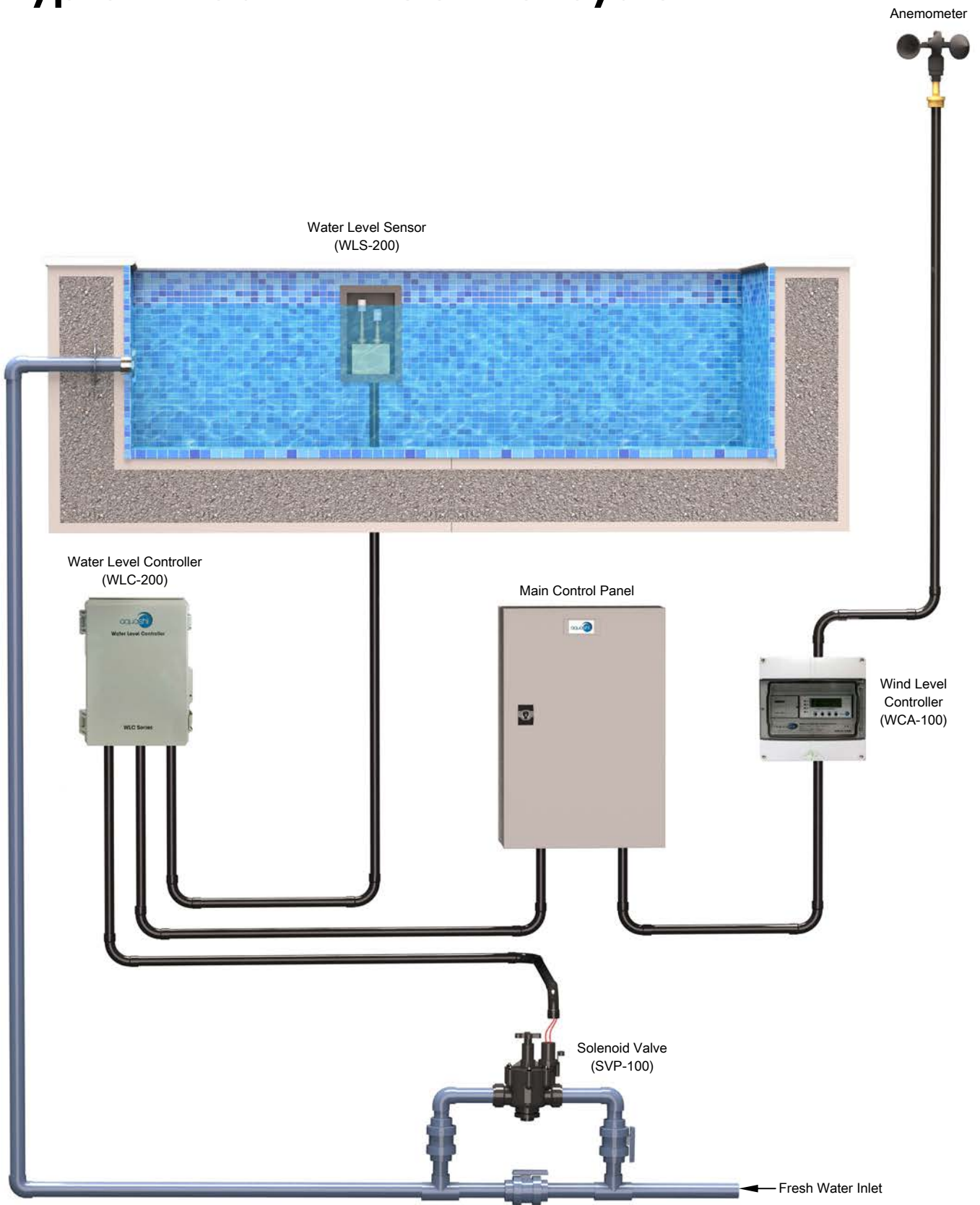
Specifications:

Voltage: 110 - 230V AC
 Measuring range : 0 to 49m/s
 Enclosure Material: Polycarbonate
 IP Rating (Enclosure): IP65
 Standard Cable Length: 30m
 Anemometer Type: Reed Switch
 Configurable Outputs: 4 Nos.
 System Units: m/s, Kmph, Mph



Model no.	Description	A (mm)	B (mm)	C (mm)
WCA-100	Wind level controller with Anemometer and 30m cable.	198	198	120

Typical Fountain Control System



Drains and Inlets



Drains and Inlets

Overflow Drain - ODF Series	101
Overflow Drain - ODW-150	102
Overflow/ Gutter Drain - ODG Series	103
Overflow Drain - ODW-S200	104
Overflow Drain - ODW-300 / 400	105
Cast Bronze Gutter Drain - GDB Series	106
Suction Drain - SDF Series	107
Inlet Fitting - IFF Series	108
Plug Drain - DP Series	109
Eyeball Return Inlet - ERI-S150	110
Adjustable concrete return inlet - ARI-S200	111
Inlet Fitting with adjustable diffuser plate - IFS-200	112
Suction Vacuum Point - VP-S150	113
Suction Vacuum Point Threaded - VP-S200	114
Frame and Grate Drain - DFG Series	115

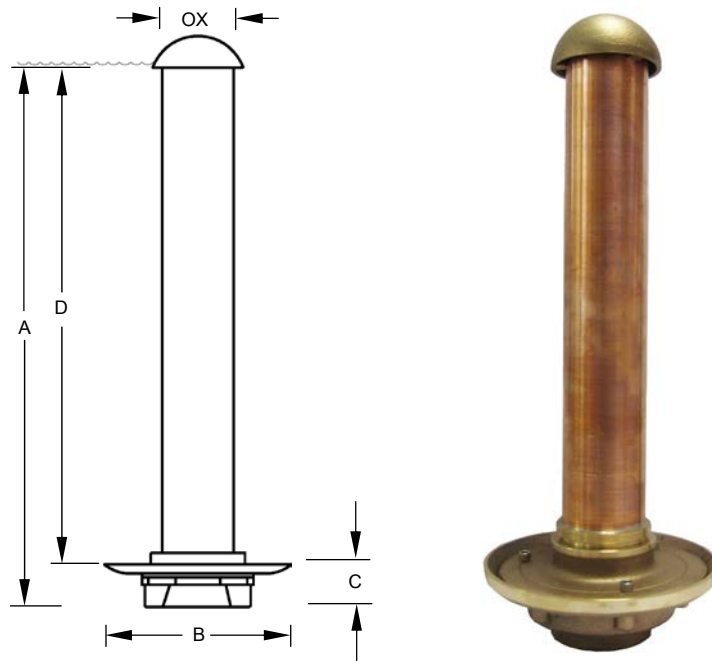
Overflow Drain - ODF Series

Function:

Overflow Drain for use in pools and fountains. Excess water overflows into stand pipe drain during high water level conditions. The standpipe also has a threaded connection which allows it to be removed easily for draining of pool and maintenance. Height can be customised upon request.

Specifications:

Material: Cast Bronze with Copper stand pipe
 Connection type: Female thread



Model No.	Inlet (BSP)	A (mm)	B (mm)	C (mm)	D (mm)	Ox (mm)
ODF-200	2"	540	155	60	480	51
ODF-300	3"	540	180	60	480	76
ODF-400	4"	540	180	60	480	102

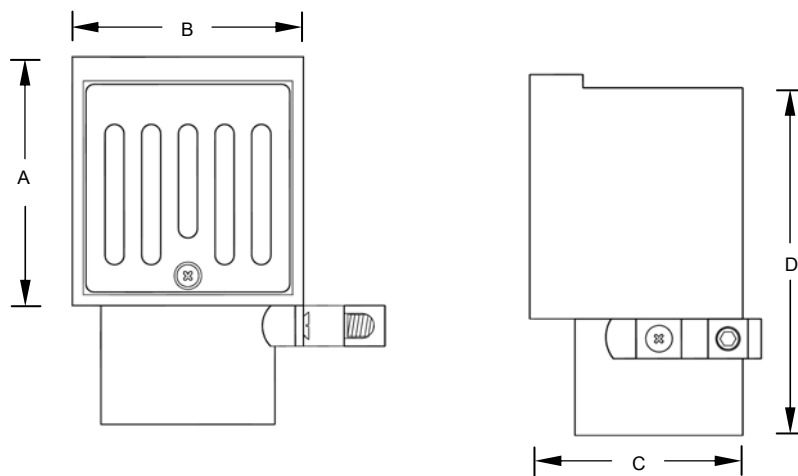
Overflow Drain - ODW-150

Function:

The Aquashi ODW-150 Series is a light duty wall mounted overflow drain with a 1 1/2" inlet specifically designed to protect the pool from over flowing. Must be located in the lowest pool of the fountain system.

Specifications:

Material: Cast Bronze with Stainless Steel fasteners
 Connection type: Female Thread



Model No.	Inlet (BSP)	A (mm)	B (mm)	C (mm)	D (mm)
ODW-150	1 1/2"	92	85	80	131

Overflow/ Gutter Drain - ODG Series

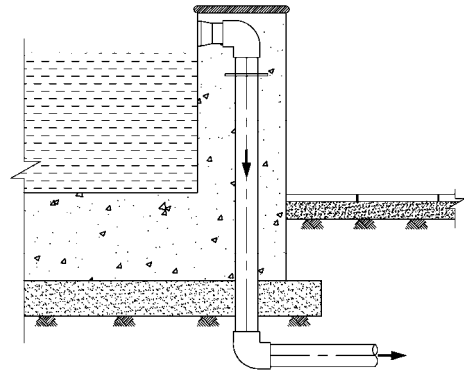
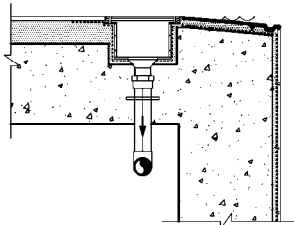
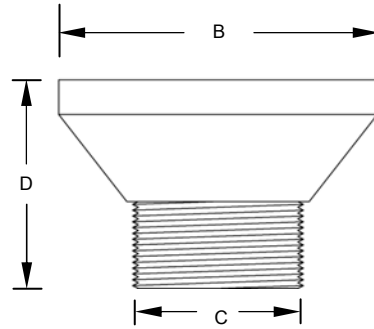
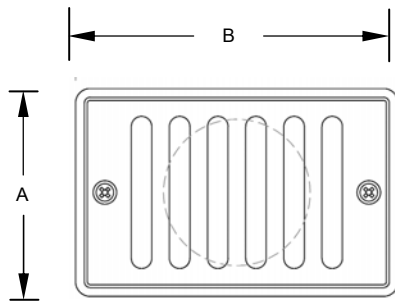
Function:

Overflow/ Gutter drain for pools with a 2" male threaded connection. Made of stainless steel 316.

Specifications:

Material: Stainless Steel 316

Connection type: Male Thread



Model No.	Inlet (BSP)	A (mm)	B (mm)	C (mm)	D (mm)
ODG-S200	2"	71	110	59	72

Overflow Drain - ODW-S200

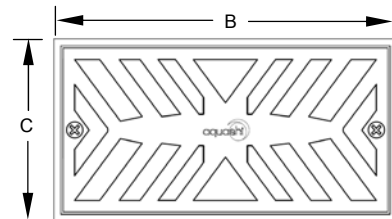
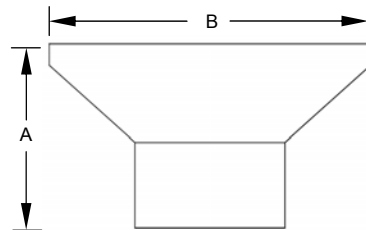
Function:

Overflow channel drain for pools with a 2" female threaded connection. Made of stainless steel 316.

Specifications:

Material: Stainless Steel 316 (Polished)

Connection type: Female Thread



Model No.	Inlet (BSP)	A (mm)	B (mm)	C (mm)
ODW-S200	2"	84	179	79

Overflow Drain - ODW-300 / 400

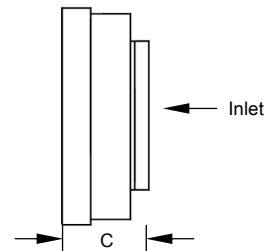
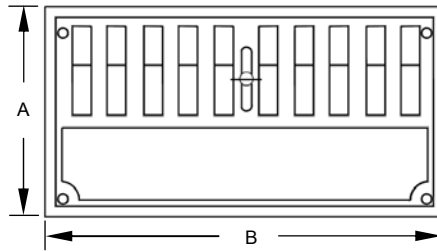
Function:

The Aquashi ODW-300/ 400 are heavy duty wall mounted overflow drains specifically designed to protect the pool from over flowing and must be located in the lowest pool of the fountain system. An adjustable stainless steel plate on the front of the drain regulates the water level to desired height after installation.



Specifications:

Material: Cast bronze with stainless steel fasteners and adjustable stainless steel plate
 Connection type: Female Thread



Model no.	Inlet (BSP)	A (mm)	B (mm)	C (mm)
ODW-300	3"	157	305	56
ODW-400	4"	157	305	56

Cast Bronze Gutter Drain - GDB Series

Function:

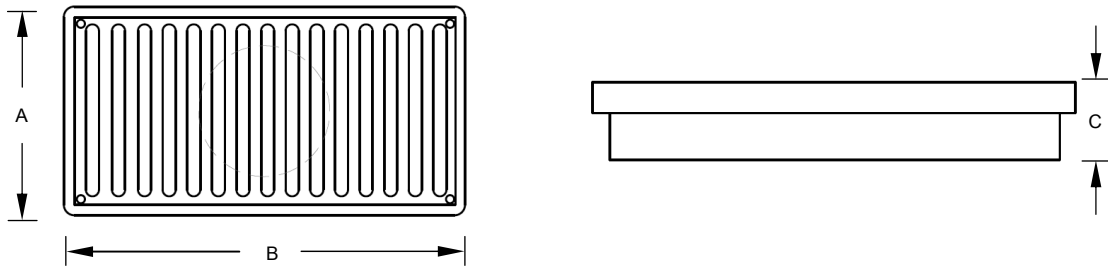
The Aquashi GDB 300/ 400 are heavy duty drains designed for installation in wall or floor.



Specifications:

Material: Cast bronze with stainless steel fasteners.

Connection type: Female Thread



Model no.	Inlet (BSP)	A (mm)	B (mm)	C (mm)
GDB-300	3"	154	293	60
GDB-400	4"	154	293	60

Suction Drain - SDF Series

Function:

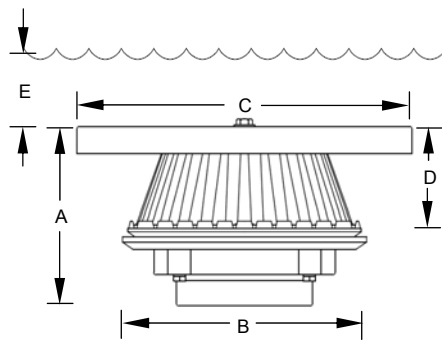
Cast bronze heavy duty floor mounted suction drains designed for concrete pools. The strainer intercepts debris and the bronze anti vortex plate prevents air entrainment.



Specifications:

Material: Cast Bronze body, Bronze Anti-Vortex plate with stainless steel fasteners

Connection type: Female thread



Model no.	Inlet (BSP)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Max. flow (LPM)
SDF-200	2"	128	163	200	75	80	250
SDF-300	3"	145	220	310	80	100	650
SDF-400	4"	145	220	310	80	200	650
SDF-600	6"	150	280	400	100	250	1240
SDF-800	8"	230	345	400	185	260	2530

Inlet Fitting - IFF Series

Function:

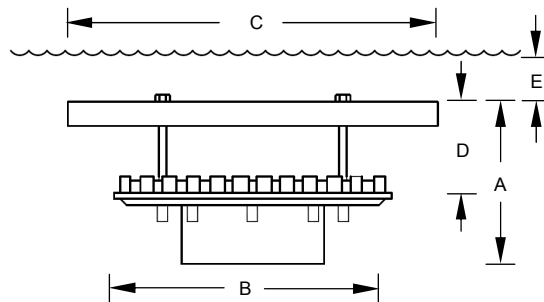
Cast bronze heavy duty floor mounted inlet fitting designed for concrete pools. The cast bronze diffuser plate disperses flow and reduces surface turbulence. Ideal for water falls and cascading water features.



Specifications:

Material: Cast Bronze body, Bronze Anti-Vortex plate with stainless steel fasteners

Connection type: Female thread



Model no.	Inlet (BSP)	A (mm)	B (mm)	C (mm)	D (mm)	Min. Water Level E (mm)	Max. Flow (LPM)
IFF-200	2"	133	160	200	80	80	300
IFF-300	3"	150	215	310	80	100	600
IFF-400	4"	150	215	310	80	200	945
IFF-600	6"	150	280	400	87	254	1745
IFF-800	8"	225	340	400	155	260	2650

Plug Drain - DP Series

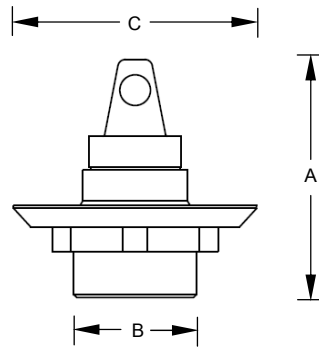
Function:

Plug drains are ideal for draining fountain pools. They are supplied with a threaded connection to ensure a water tight fitting and provide easy installation and removal of the drain plug.



Specifications:

Material: Cast Bronze
 Connection type: Female thread



Model no.	Inlet (BSP)	A (mm)	B (mm)	C (mm)
DP-200	2"	89	89	166
DP-300	3"	127	102	166
DP-400	4"	134	127	166

Eyeball Return Inlet - ERI-S150

Function:

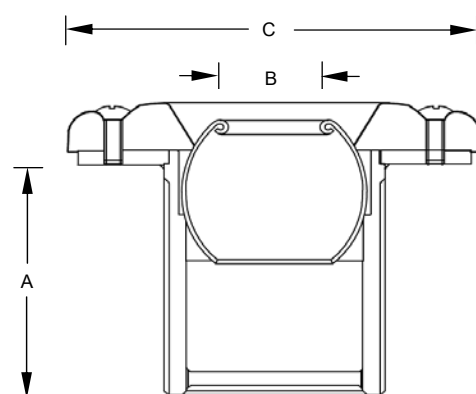
Eye ball type return Inlet can be used to provide a directive flow of water in swimming pools. Recommended maximum flow 4.5m³/Hr.



Specifications:

Material: Stainless Steel 316

Connection type: Male thread



Model No.	Inlet (BSP)	A (mm)	B (mm)	C (mm)
ERI-S150	1 1/2"	50	20	90

Adjustable concrete return inlet - ARI-S200

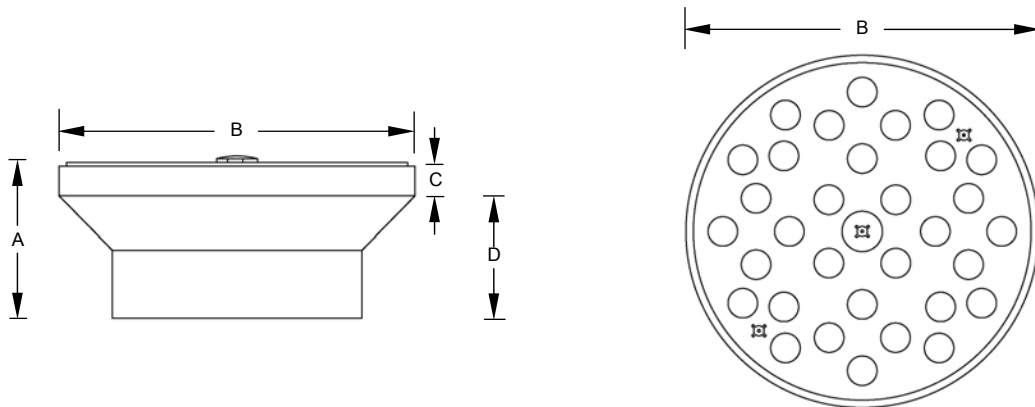
Function:

Adjustable Return inlet in stainless steel 316 for use in pools and fountain features. Top plate can be rotated to increase and decrease flow. Recommended maximum flow 20m³/Hr.



Specifications:

Material: Stainless Steel 316
 Connection type: Female thread



Model no.	Inlet (BSP)	A (mm)	B (mm)	C (mm)	D (mm)
ARI-S200	2"	40	96	8	32

Inlet Fitting with adjustable diffuser plate - IFS-200

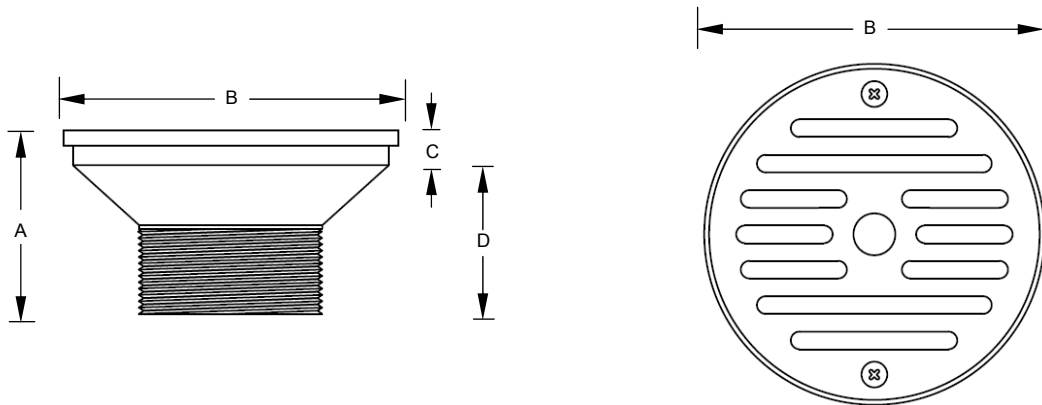
Function:

Inlet fitting with adjustable diffuser plate in stainless steel 316. Designed for floor mounted installation in concrete pools and fountain features. Recommended maximum flow 20m³/Hr.



Specifications:

Material: Stainless Steel 316
 Connection type: Male thread



Model No.	Inlet (BSP)	A (mm)	B (mm)	C (mm)	D (mm)
IFS-200	2"	60	107	11	49

Suction Vacuum Point - VP-S150

Function:

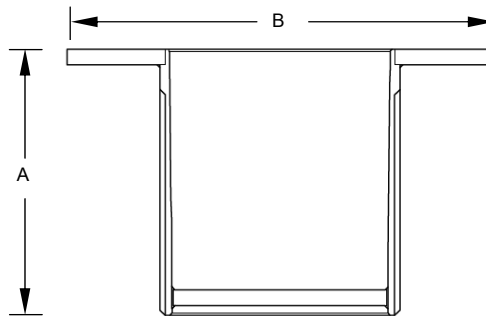
Suction vacuum points can be used to provide inlets for pool cleaning and maintenance purposes. Supplied with sliding cover.



Specifications:

Material: Stainless Steel 316

Connection type: Male thread



Model No.	Inlet (BSP)	A (mm)	B (mm)
VP-S150	1 1/2"	50	85

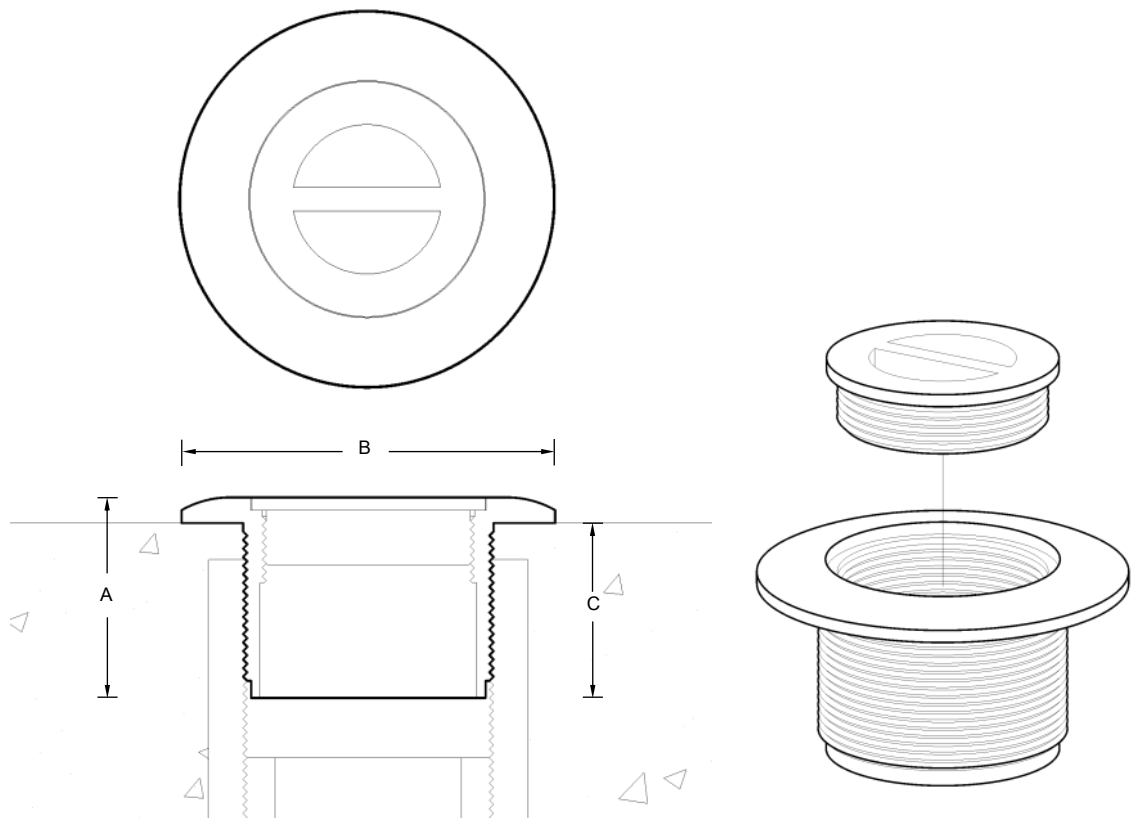
Suction Vacuum Point Threaded - VP-S200

Function:

Suction vacuum points can be used to provide inlets for pool cleaning and maintenance purposes. Threaded Suction Vacuum points provide a more stable threaded lid for opening. Can also be used as a plug drain.

Specifications:

Material: Stainless Steel 316
 Connection type: Male thread



Model No.	Inlet (BSP)	A (mm)	B (mm)	C (mm)
VP-S200	2"	47	88	41

Frame and Grate Drain - DFG Series

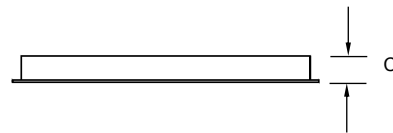
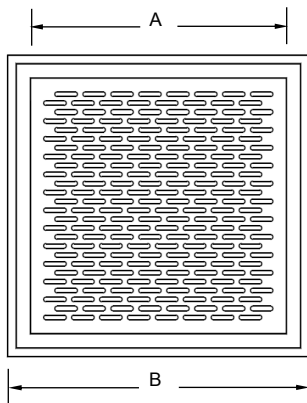
Function:

Square shaped frame and grate suitable for swimming pools and fountains. Made of 316 grade stainless steel.

Specifications:

Material: Stainless Steel 316

Shape: Square



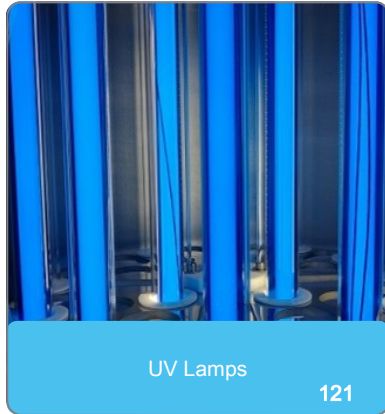
Model No.	A (mm)	B (mm)	C (mm)	Recommended (m3/hr)
DFG-009	229	270	26	15
DFG-012	305	360	26	42
DFG-016	406	460	26	84
DFG-020	508	560	26	135

Cascades Dining, Ferrari World - Abu Dhabi



Emirates Hills - Dubai

Water Purification System



Ultra violet (UV)	119
UV Lamps	121
Multiray system	122
UV Cabinets	124

Ultra violet (UV) System

UV systems are designed and optimized for advanced photo oxidation processes as well as general disinfection. They are ideal for chloramine reduction in swimming pools.

The biggest problem in chlorinated swimming pool water is that chlorine reacts extremely rapidly with nitrogen compounds in the water to give rise to problematic disinfection by-products (DBP) such mono-, di-, and trichloramine. Especially, trichloramine, NCl_3 , has a very strong irritating effect on the eyes, nose, throat and bronchial tubes.

The key components of the UV treatment series are special UV lamps and adapted electronic lamp drivers. Gas filling and synthetic quartz composition results in UV emission spectrum optimal for the degradation of chloramine fractions.

Furthermore, reactor geometries and electronic control systems have been designed to reduce operating costs to a minimum. Large flanged connections and body geometry results in very low head loss even at max flow rate. Intelligent PLC control enables both automatic stepless lamp dimming and diurnal power variation. Both features add positively to ensure energy efficient operation.

Material selection and components of high industrial quality guarantees long term trouble-free operation in the often very hot, humid and corrosive pool environments.



Ultra violet (UV) - MR Series

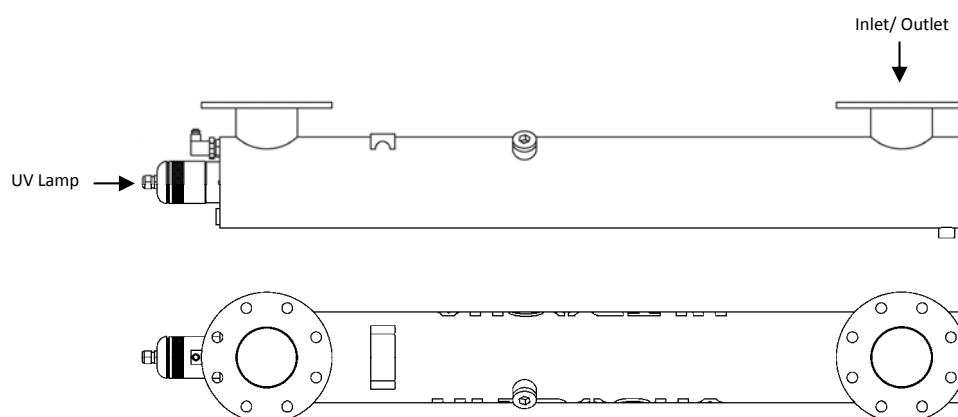
Function:

State of the art UV system optimised for efficient and trouble free operation. The SS series are built from high grade stainless steel 316 and are suitable for most water disinfection applications. UV sensor and automatic mechanical cleaning systems are available. Operating pressure up to 10 bar. Contact Aquashi for detailed information.



Benefits:

- Special long life internal coating ensures 16,000H guaranteed life time.
- Corrosion resistant electropolished stainless steel 316 construction
- Simple installation, operation and maintenance.
- System optimised for a wide range of water temperatures.
- Energy efficient.



Model No.	Inlet/ outlet (BSP)	Power (kW)	Max flow m3/h	Nos. of Lamps
MR1-75SS	1 1/2"	0.08	8	1
MR1-220SS	4"	0.25	37	1
MR4-220SS	6"	1.0	150	4
MR6-220SS	8"	1.5	225	6
MR8-220SS	8"	2.0	340	8
MR12-220SS	10"	3.0	490	12
MR16-220SS	10"	4.0	620	16

Ultra violet (UV)

Model No.	Inlet/ outlet (BSP)	Power (kW)	Max flow m3/h	Nos. of Lamps
MR1-350SS	4"	0.4	58	1
MR4-350SS	6"	1.5	240	4
MR6-350SS	8"	2.2	360	6
MR8-350SS	10"	3.0	540	8
MR12-350SS	12"	4.5	780	12
MR16-350SS	12"	6.0	950	16

Model No,	Inlet/ outlet (BSP)	Power (kW)	Max flow m3/h	Nos. of Lamps
MR1-440SS	4"	0.5	60	1
MR4-440SS	8"	1.9	240	4
MR6-440SS	12"	2.8	420	6
MR10-440SS	12"	4.7	690	10
MR14-440SS	16"	6.6	990	14

Easy access to lamps and inspection
No tools needed

Internal digital temperature sensor

DIN or ANSI flanges

Optional digital Önorm UV sensor

Corrosion-resistant electropolished
AISI 316L construction



Low Pressure UV Lamps

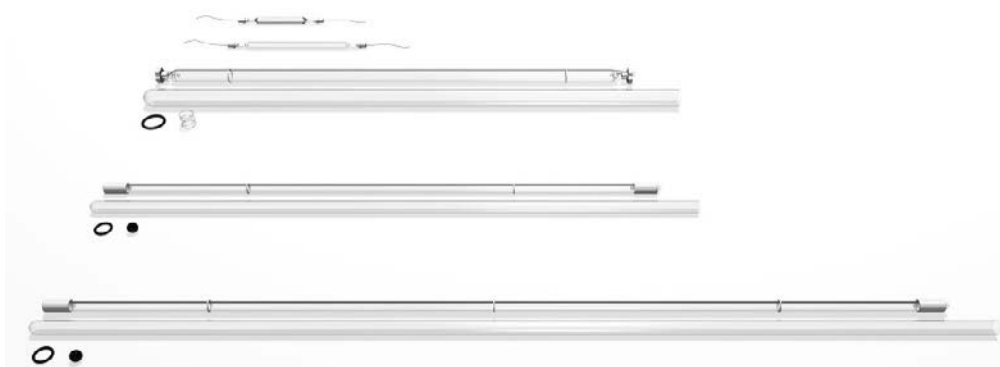
Function:

The low pressure UV lamps for water disinfection and advanced oxidation processes. Designed for use with the SS series reactors. Lamp replacement and quartz sleeve inspections are done in two simple steps without the need for tools. Contact Aquashi for detailed information.



Specifications:

Standard Cable: 3.5m as standard (Custom length available up to 30m)



Model No.	Lamp Input (W)	Power Input (W)	Dia (mm)	Lamp Voltage (V)	Arc Length (mm)	Life Time (Hr)*	Mains Current (A)	Driver Type
UV-75	85	75	19.3	90	765	8000	0.4	Ultratherm compact controller 75W
UV-220	185	210	19	90	1100	16000	0.95	Ultratherm ballast 4x220W
UV-350	335	394	19	172	1605	16000	1.65	Ultratherm ballast 2x350W
UV-440	415	475	32	88	1060	12000	2.1	Ultratherm ballast 2x440W

* Only when operated with Ultratherm lamp driver.

Lamp replacement:

- Remove lamp plug by hand
- Retrieve and replace lamp



Quartz sleeve inspection:

- Remove quartz nut by hand
- Retrieve washer, O-ring and quartz sleeve



Medium Pressure - Multiray Series

Function:

The Multiray system is designed and optimised for advanced photo oxidation processes as well as general disinfection. For use in medium to large pools. Operating pressure up to 10 bar. Note, max flows are strongly dependant upon water UVT* and target UV-dose. Contact Aquashi for detailed information.



Benefits:

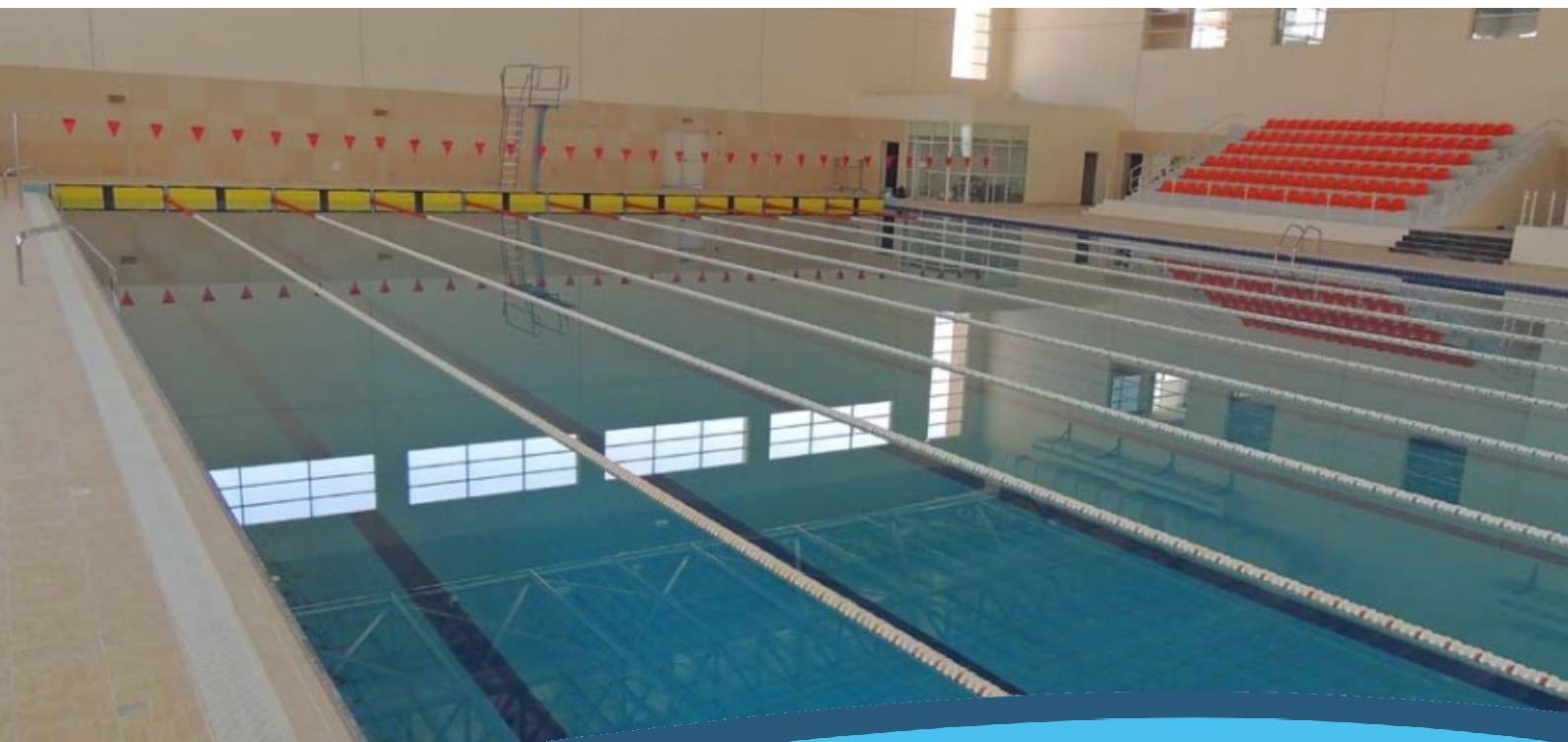
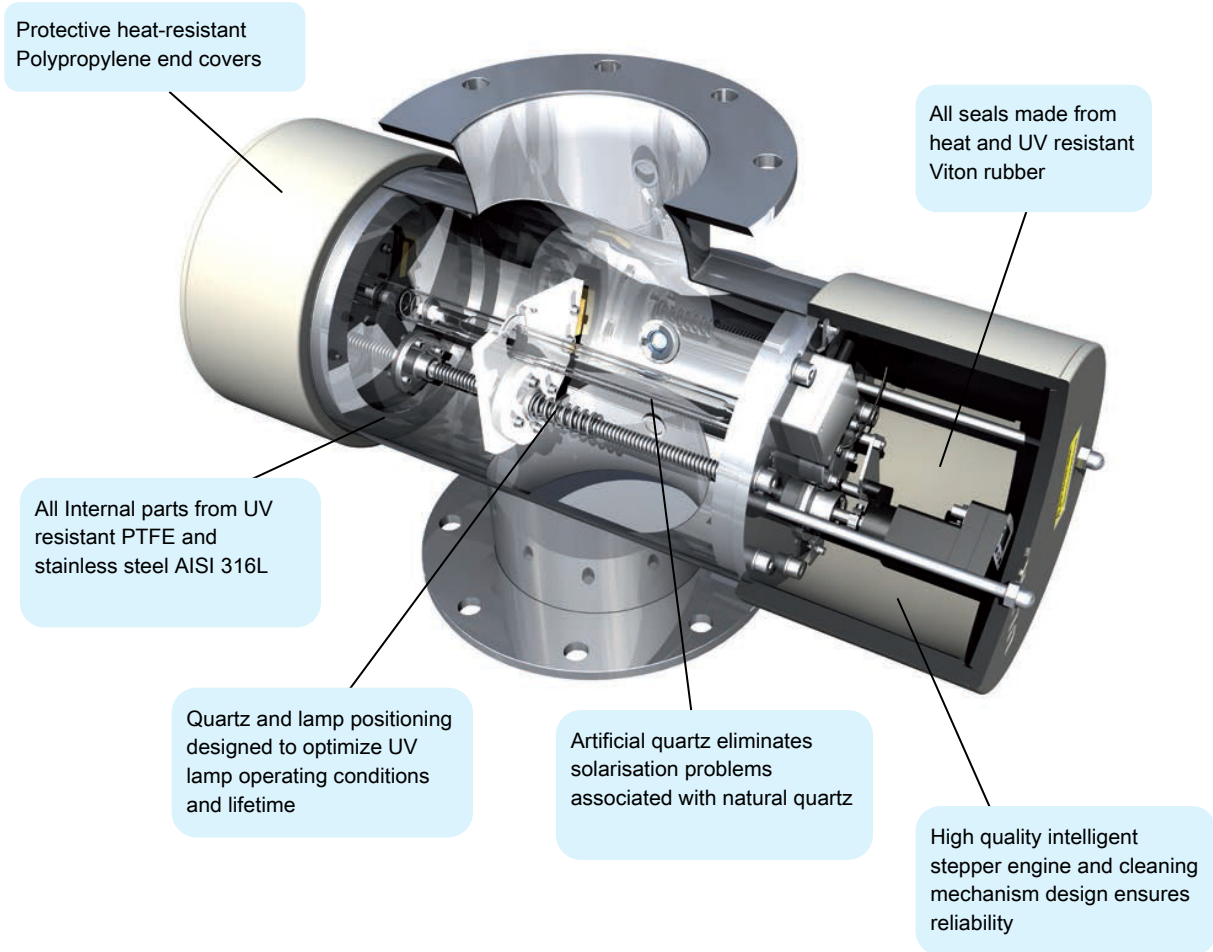
- Electro polished stainless steel 316 construction
- Simple installation, operation and maintenance
- Insignificant head loss
- PLC module with touch screen
- Manual or fully automatic cleaning mechanism



Model No.	Inlet/ outlet (BSP)	Power (kW)	Max flow m3/h
MP1000	4"	1.1	90
MP2000	4"	2.1	175
MP3000	8"	3.2	270
MP6000	12"	6.5	520
MP9000	12"	10.0	760
MP12000	12"	14.0	1000

*Ultra Violet Transmittance describes how well UV light penetrates the water. In relation to UV system sizing this parameter is as decisive as water flow rate. In General, the higher the water quality, the higher UVT. However, water that looks very clear can still have low UVT if it contains certain dissolved substances such as iron, manganese, etc.

Medium Pressure Multiray Series



UV Cabinets

Function:

The control units are built to be durable and easy to operate. Behind the simple appearance, our advanced PLC control system is constantly monitoring and adjusting the electrical parameters of each individual lamp to ensure their optimal performance. To combat harsh and corrosive environments the MR220, MR350 and MR440 one lamp systems are produced with carbon fibre reinforced plastic (CFRP) controlled cabinets. These cabinets are air water tight up to IP66, ensuring a dry and safe environment for the electric

- Touchscreens with intuitive menus.
- Rigid corrosion resistant stainless steel construction.
- High quality digital lamp drivers with dynamic lamp control for optimum lamp performance.
- Advanced cabinets for all low pressure UV systems.
- Installation voltage range for multi-lamp systems from 180V to 306V.

Control Cabinet

- 3.5" multi colour touchscreen.
- Individual lamp status indicators.
- Manual dimming of lamps.
- Remote or manual control.
- System state outputs.
- Lamp performance and lifetime monitoring.
- Cabinet and reactor overheat protection.
- Up to IP 66 protection rating.
- Operating temperature up to 50°C.
- CE approved.

Options

- Önorm approved UV sensor.
- Intelligent fully automatic cleaning system.
- 6 -12" touchscreen.
- Automatic lamp dimming (Power saving mode).
- Flow control/ pacing.
- Performance and event log.
- Individual lamp on/off switching.
- SCADA via Modbus.
- UL approved cabinets.



Compact SS



CFRP - 220 Series



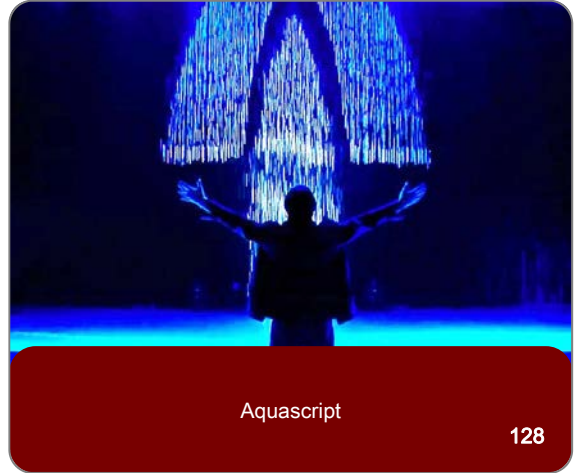
CFRP - 350/ 440 Series

Water Screens



Aquascreen

126



Aquascript

128

Available for rental or permanent installation. The water screens provide captivating effect whether installed in your spa, home, office or event.

Aquascreen	126
Aquascript	128

Aquascreen

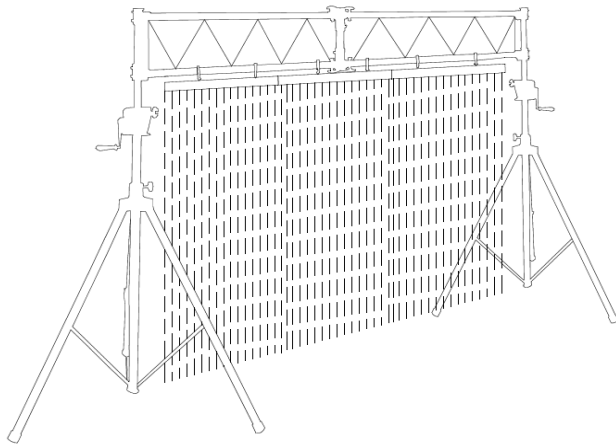
Function:

The Aquascreen is a modular system designed for displaying motion graphic or static images on water. The free-falling water droplets create a high resolution rear projection screen engineered for use with lasers, lighting and multimedia projection. The length is customizable and can be extended using additional inlets and displays to suit your requirements. Ideal for events, weddings or any other special occasions, the screen can be installed as a temporary or permanent installation. The display can be enhanced with an audio system and sound effects if required.

Designed for easy installation, maintenance and dismantling. The Aquascreen is engineered to avoid noise and splash from water.

Specifications:

Minimum Length: 1.20 m
Maximum Length: Customisable as per requirement.



Benefits:

- Option for stand alone or integrated design to mount trussing
- Quick-Connect System makes set-up easy, fast and secure
- Mini-Clamps Mount to truss or pipe up to 2" (50mm) diameter
- Triple Filtration for clean & reliable operation



Aquascript

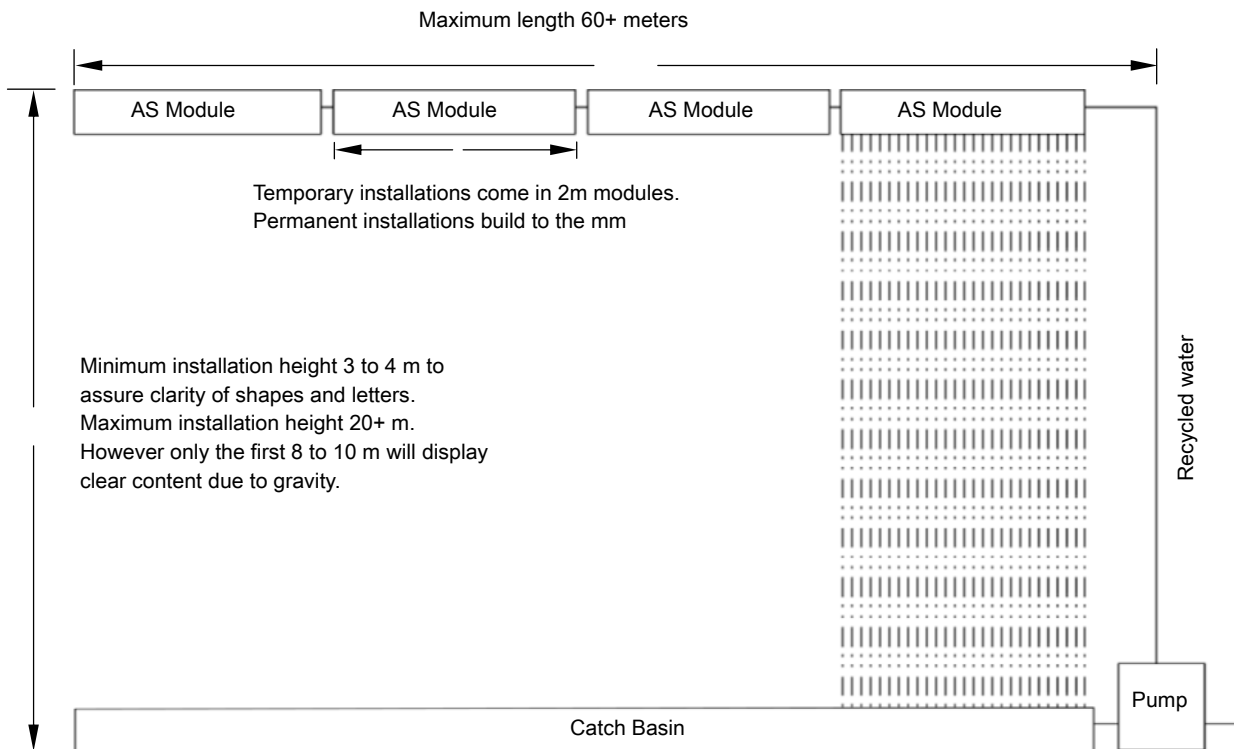
Function:

The Aquascript is fascinating technology where water can take shapes of anything imaginable. The system consists of a linear array of nozzles that are digitally controlled by a computer system and software application. The nozzles are synchronized expelling single drops of water on demand creating text, logos, images or shapes.

The Aquascript is ideal for marketing purposes/ product launches or even to add an element of surprise for any event. It can be installed as a temporary or permanent installation.

Specifications:

Bespoke Shapes: Straight/ Rectangle/ Curved/ Circular/ Bespoke







Floating Fountains

Aeration and fountain systems for ponds and lakes are very important in helping control the problems of algae build up, aquatic weeds, bottom sludge and aquatic odours.



Aquashi floating fountains are designed for medium to large ponds and lakes. Constructed of stainless steel 316 for high durability and coated in black epoxy paint to blend into the water. The fountains are designed and supplied as a complete unit with Grundfos stainless steel submersible pumps and stainless steel 316 LED underwater lighting. A range of nozzles can be selected for the desired effect. LED lighting is available in RGB or White. All floating fountains are customizable from 1m to 100m spray height.

The floating fountains are designed and supplied as a complete unit consisting of the following:

- Black Epoxy coated Stainless steel 316 ballast ring.
- Black epoxy coated Stainless steel 316 frame.
- Grundfos stainless steel submersible pumps
- Stainless 316 LED underwater lighting. RGB or White colour
- Underwater cables for pumps and lights.
- Weather proof electrical control panel with 24 hour timer.
- Nozzle, selected for the desired effect
- Optional Wind level controller with anemometer.

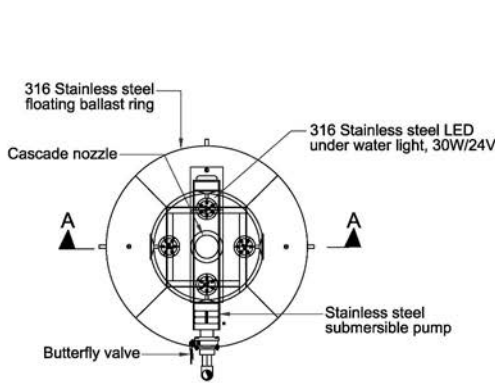
Floating Fountains

Aquashi Floating Fountains are custom designed to suit each project requirement.

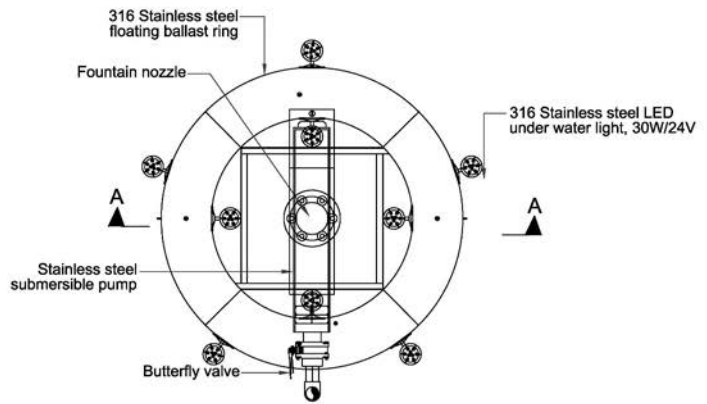
There are many fountain nozzles to choose from, and choosing the right fountain nozzle will depend on whether you are looking for a more aesthetically pleasing feature or a highly aerated feature. Also whether you are looking for a floating fountain with low spray height or very high spray height, either way we will advise you on the right nozzle and fountain size to meet your requirements.

Aerating jets, foam jets and cascade jets are the most common fountain jets used for floating fountains in pond and lakes because they produce highly aerated water effects while at the same time are very pleasing to look at.

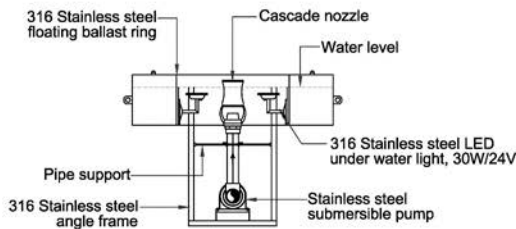
Precision jets are commonly used for achieving greater spray heights. Flow straighteners must be used for high spray effects in order to reduce the turbulence and inflow twisting created.



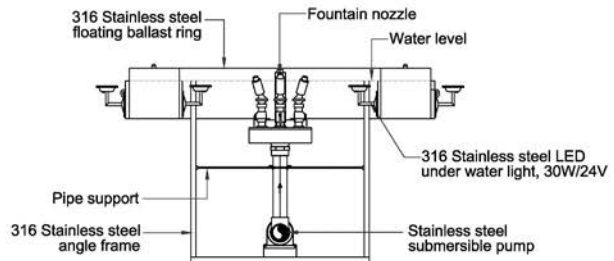
SMALL FLOATING FOUNTAIN-PLAN



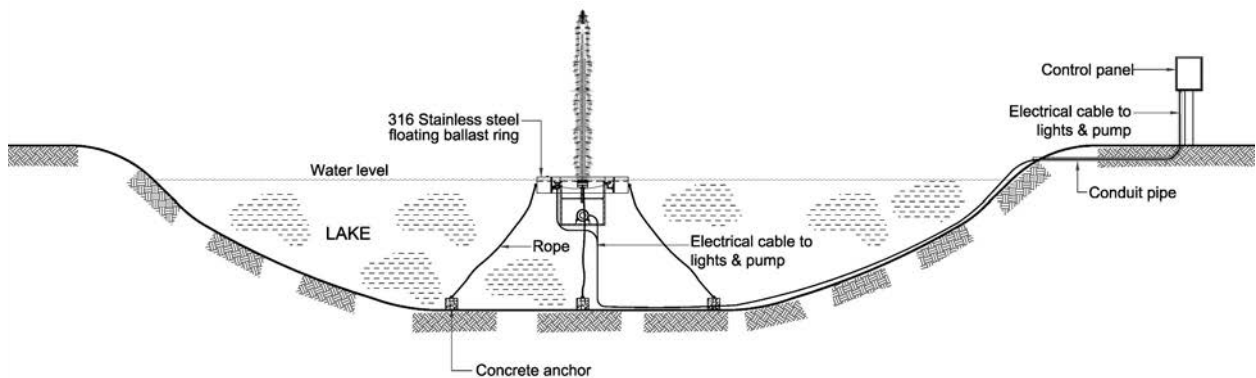
LARGE FLOATING FOUNTAIN-PLAN



SECTION A-A



SECTION A-A







Fog Misting System

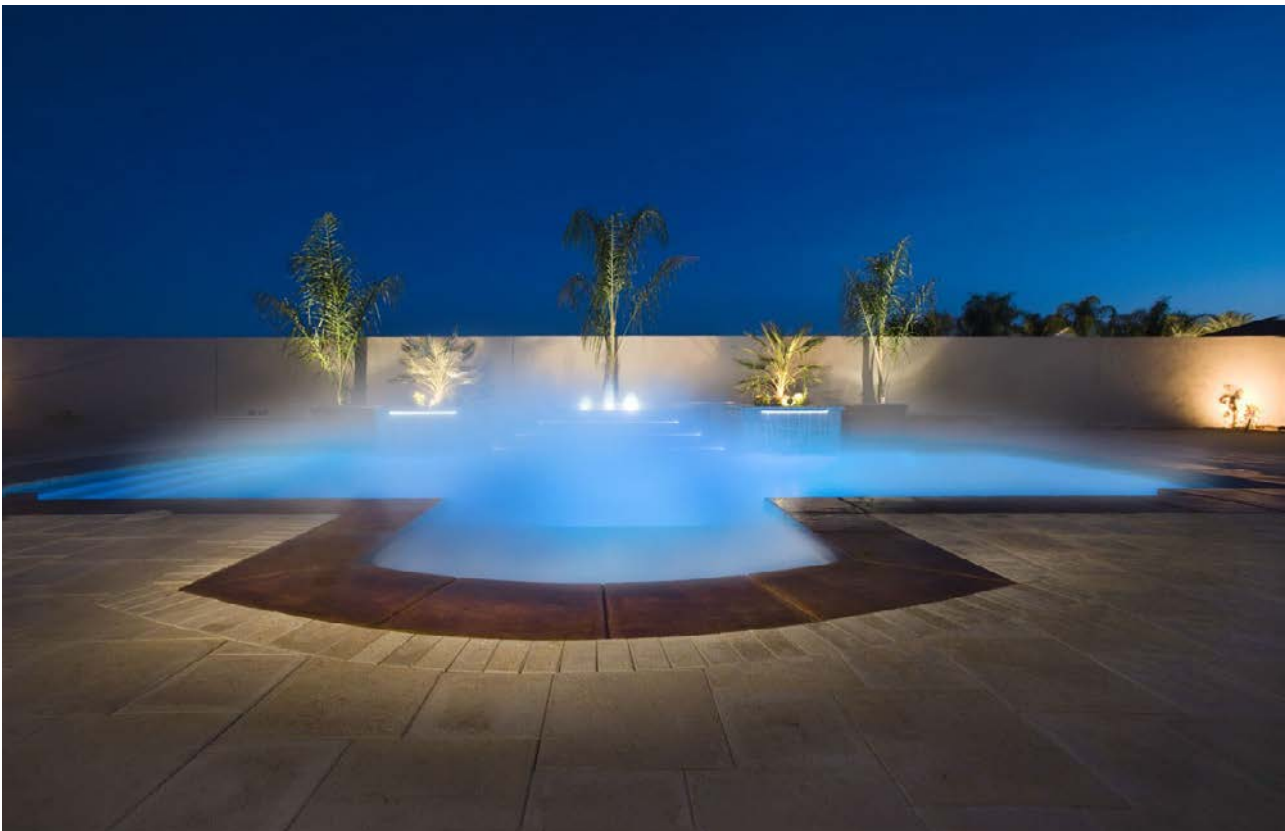
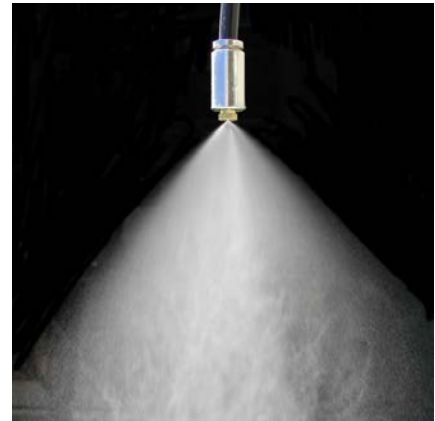
Aquashi have teamed up with Fogco USA to provide you with one of the best mist and fog systems available in the market today. Fogco is a manufacturer of high pressure mist and fog systems for industrial, commercial, and residential markets.

As a professional fog system manufacturer with over 25 years experience, Fogco offers a wide range of products from entry-level mist systems to custom designed solutions for outdoor cooling, humidification, dust control and water feature projects.

Misting systems have been used in outdoor cooling applications for decades. These systems can provide outdoor cooling

reducing temperatures by up to 40 degrees Fahrenheit with virtually no noticeable increase in the relative humidity. Applications for outdoor mist systems include restaurants, theme parks, hotels and resorts, arenas, tennis courts, golf facilities, fountains, waterfalls, patios, and more.

Fog systems are widely used in pools and water features. The fog spreads across the surface of the water creating a dramatic and changing panorama and transforms any water system project into a unique and mystical experience.

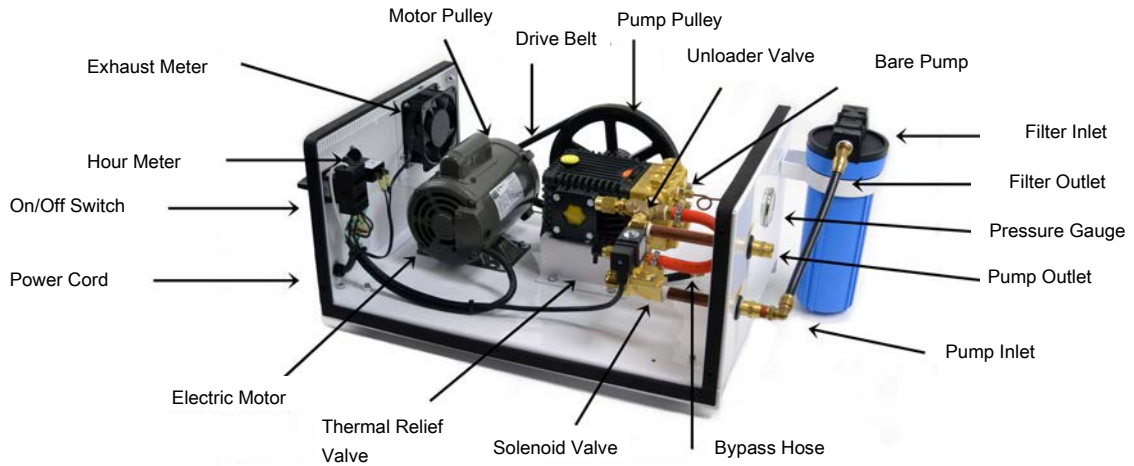


Fog Misting System

Function:

Fog misting systems designed for outdoor cooling, humidification, dust control and misting effects. Contact Aquashi for more information.

50 Hz Pulley Drive Industrial Duty Misting Pumps



Technical Information

Certified Series PD Electric Data and Specifications

Model No.	Size LPM	Motor HP	Unit RPM	Volts / Phase	Full Load Amps*	Dim. Cm.	Weight kg
7100215	1	1	770	220/1	7.1	66 x 41 x 30	50
7200215	2	1	598	220/1	7.1	66 x 41 x 30	50
7400215	4	1	486	220/1	7.1	66 x 41 x 30	50
7800215	8	1.5	973	220/1	11.3	66 x 41 x 30	54
7120215	12	3	1450	220/1	13	66 x 41 x 30	59

*Full Load Amps are the average amp draw for the pump and will vary from unit to unit. All information listed is subject to change.

The 50 Hz pulley drive mist pumps are industrial duty outdoor rated pumps designed for 24/7 use under normal operating conditions. This range is ideal for industrial and commercial applications where quality and durability are the primary considerations.

This range now includes a low water safety switch which prevents the unit from operating with insufficient water supply. These misting pumps also include thermal protection for the motor and the branch circuits as well as short circuit protection for the entire unit. These upgrades make the range of high pressure mist pumps the highest rated and the most protected in the industry and are backed by our industry leading 5 year warranty.



Fog Misting System

This mist pump range utilizes a low speed 4 pole motor and a pulley/belt transmission reducing the operating speed of the bare pump as low as 500 rpm. This reduces noise and vibration for the system and extends the operating life of the pump.

The pump is fully enclosed in a rust proof powder coated housing and includes an integrated exhaust fan, an On/Off switch, an inlet solenoid valve, a low water safety switch, an adjustable pressure regulator with internal bypass, a thermal relief valve, a glycerin filled pressure gauge, rubber isolation feet, an analog hour meter, and a complete filter assembly including canister, cartridge, tubing and fittings.

Stainless Steel Tubing for Mist and Fog Systems



The pre-fabricated stainless steel tubing is designed for the ultimate in quality and durability and represents the highest quality materials available for the installation of a high pressure mist system. This mist tubing can withstand pressures in excess of 3000 psi and is recommended for mist systems that utilize treated water or chemical injection.

The proprietary stainless steel mist nozzle fitting allows all mist nozzles to be installed by hand without the need of special tools or sealants. The fittings are assembled into prefabricated lengths of 300 series stainless steel using our unique computerized robotic welding process which ensures consistent welds that are the best in the industry.

The stainless steel prefabricated tubing is available in lengths of 10 feet or 20 feet. It is available in 1/2" or 3/8" O.D. with standard nozzle spacing of 18 inch, 24 inch, and 30 inch. Custom lengths with varied nozzle spacing and configurations are also available.

Brass and Stainless Steel Misting Nozzles and Adaptors



We offer both standard impeller nozzles as well as the latest cleanable nozzle design with 10/24 threads. Mist nozzles are available in brass and stainless steel. There are also a variety of other nozzle designs as special order items. These include 12/24 threads, 1/8" threads with orifice sizes as large as .048".

The Standard nozzle range includes sizes from .008" to .020" orifice. They are available in brass or special order as stainless steel. Flow rates for this range vary from 0.20 gpm to .055 gpm

The Cleanable mist nozzles include sizes from .006" to .020" with anti drip adapter. They are available in brass or stainless steel with orifice sizes from .006" to .020" and flow rates from .010 gpm to .045 gpm.

Fog Misting System

Slip Lok Fittings for Mist and Fog Systems



The proprietary line of industrial slip-lok fittings are rated at 1500 psi and have been used successfully in industrial applications for over 20 years. These slip-lok fittings are the highest quality in the industry and carry a full 10 Year warranty.

The fittings include a heavy duty body, thicker locking ferrule, and an over sized viton o-ring. The unique design of these fittings allows them to be easily removed, replaced, or re-installed any time after the initial installation. No special tools or crimping procedures are required.

The slip-lok adapter range includes 1/8" to 1/2" male threaded adapters and 1/4" to 3/8" female threaded adapters in slip-lok sizes of 1/4" , 3/8" , and 1/2".

Nylon Tubing for Mist and Fog Systems

The nylon tubing and slip-lok fitting assemblies are the ultimate in convenience and versatility when used as part of the misting system design. The easy assembly allows for a quick and simple installation reducing the time and money associated with labor costs.

The high pressure nylon tubing is available in 1/4" and 3/8" O.D. flexible nylon 12 and has an operating pressure of 1000 psi. The 1/4" tubing is available by the foot or in 250' rolls. The 3/8" tubing is available in 24 inch and 30 inch straight lengths or in 50, 100, or 500 foot rolls.



Stainless Steel Compression Fittings for Mist and Fog Systems

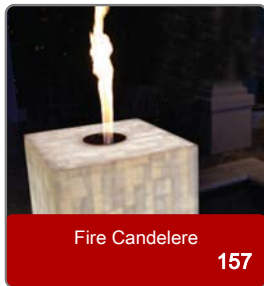
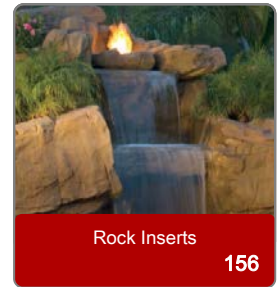
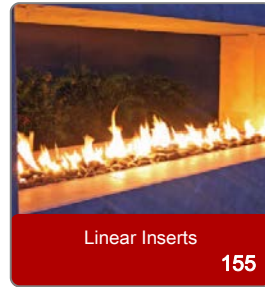
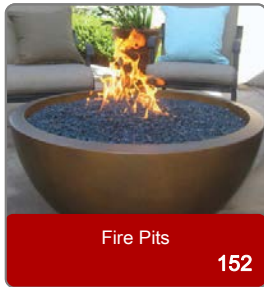
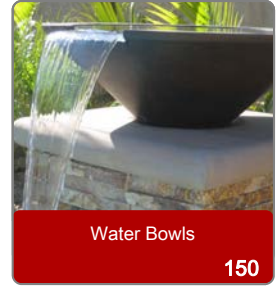
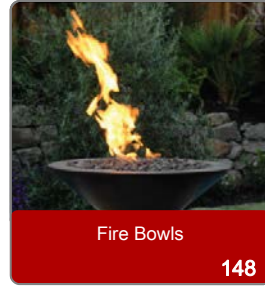
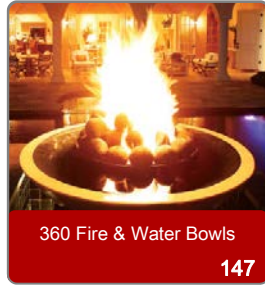
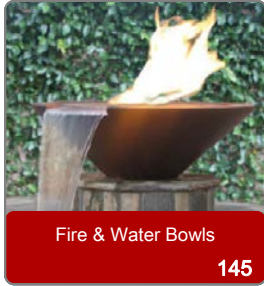


The line of stainless compression fittings can be used with our copper mist tubing or our stainless steel mist tubing. They are high pressure rated double ferruled fittings with an operating pressure rating of 3000 psi.

The standard fitting range includes 3/8" and 1/2" with other sizes and configurations available.



Fire & Water Bowls



Fire and water bowls



Fire and Water Bowls

Fire and Water Bowls	145
360 Fire and Water Bowls	147
Fire Bowls	148
Water Bowls	150
Fire Pits	152
Fire Pit Insert / Fire Bowl Inserts	154
Linear Inserts	155
Rock Inserts	156
Fire Candelere	157
Helix Torch	158
Decorative Media	159
Standard Concrete Colour Finishes	160

Gas Fire Features

We offer a wide range of gas fire features for residential or commercial applications. The decorative pieces are available in different shapes and sizes, and are beautifully crafted with quality materials, including hammered copper and concrete. Available as an automated or manual burner system. The automated burners can be operated remotely from any controller or automation system. The burner assembly comes with flame monitoring technology to maximise safety. We can offer custom bowl manufacturing for those made to measure projects. Engraving on copper bowls can also add a personal touch.

For projects that don't require fire bowls, burner inserts can be installed into custom fire pits or incorporated into the landscaping or water feature. Our burners can be used with natural gas or propane (specify on request). The burners are designed for outdoor use, durable and reliable in extreme weather conditions. All of the products are CSA/ AGA approved.



Fire and Water Bowls



Copper Bowls:



Copper Essex



Copper Corinthian



Copper Tuscano

Concrete (GFRC) Bowls:



Concrete Biltmore



Concrete Corinthian



Concrete Essex



Legacy Small Concrete Bowl



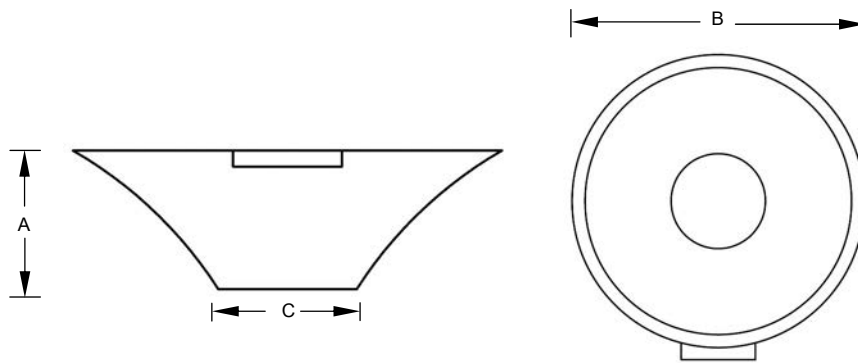
Legacy Tall Concrete Bowl

Fire and Water Bowls

Specifications:

Input Voltage:	220V AC/ 50 Hz to control panel (110V Available on request)	
Output Voltage:	24V AC	
Material:	Hammered Copper or Glass Fibre Reinforced Concrete	
Gas Type:	<u>Natural Gas</u> or <u>Propane Gas</u>	
Gas Pressure (nominal):	7"wc	11"wc
Water Flow:	58 lpm	

Gas Flow:	1 Bowl System: 60,000 - 80,000 btu/hr
	2 Bowl System: 120,000 - 160,000 btu/hr
	3 Bowl System: 180,000 - 240,000 btu/hr
	4 Bowl System: 240,000 - 340,000 btu/hr



Description	Model	Material	A (mm)	B (mm)	C (mm)
Essex	FWBCOPESS	Copper	254	787	254
Corinthian	FWBCOPCOR	Copper	229	737	432
Tuscano	FWBCOPTUS	Copper	279	787	254
Biltmore	FWBCONBILT	GFRC	229	813	457
Corinthian	FWBCON30COR	GFRC	254	762	432
Corinthian	FWBCON36COR	GFRC	254	914	432
Essex	FWBCON31ESS	GFRC	254	787	254
Essex	FWBCON36ESS	GFRC	292	914	254
Legacy Small	FWBCON30LEG	GFRC	305	762	381
Legacy Tall	FWBCON24LEG	GFRC	914	610	330

*Add suffix 'M' for manual type or 'A' for Automated type

Automation Includes:

- UL control panel
- CSA Approved burner assembly with flame monitoring technology
- Can be operated remotely from any home or pool operating system
- Mounting hardware

360 Fire and Water Bowls



The 360 Fire and Water bowls combine an elegant flow of water spilling from the bowl with an illuminated flame that provides a magnificent reflection off the water.



Biltmore Concrete



Legacy Concrete

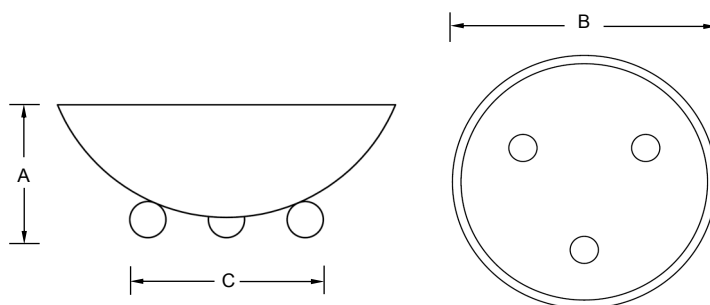


Essex Concrete

Specifications:

Input Voltage: 220V AC/ 50 Hz to control panel (110V Available on request)
 Output Voltage: 24V AC
 Gas Type: Natural Gas or Propane Gas
 Gas Pressure (nominal): 7"wc 11"wc

Gas Flow: 1 Bowl System: 60,000 - 80,000 btu/hr
 Water Flow: 114 - 190 lpm (Flow will vary depending on bowl size and flow preference)



Description	Model	Material	A (mm)	B (mm)	C (mm)
Biltmore	FPBILT42FW	GFRC	356	1067	610
Biltmore	FPBILT60FW	GFRC	432	1524	749
Legacy	FPLEG42FW	GFRC	457	1067	508
Legacy	FPLEG48FW	GFRC	508	1219	572
Essex	FPESS48FW	GFRC	381	1219	356
Essex	FPESS60FW	GFRC	483	1524	483

*Add suffix 'M' for manual type or 'A' for Automated type

Fire Bowls



Copper Bowls:



Tuscano Copper



Winsor Copper



Essex Copper



Corinthian Copper

Concrete (GFRC) Bowls:



Essex Concrete



Garden Bowl Concrete



Fiore Concrete



Fiore Concrete Pedestal



Branded Rim Concrete



Branded Rim with pedestal Concrete



Biltmore Concrete



Corinthian Concrete



Legacy S Concrete



Legacy M Concrete



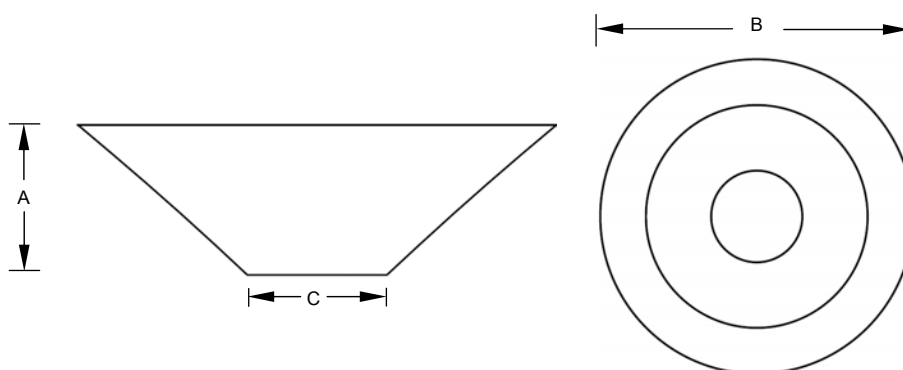
Legacy L Concrete

Fire Bowls

Specifications:

Input Voltage: 220V AC/ 50 Hz to control panel (110V Available on request)
 Output Voltage: 24V AC
 Gas Type: Natural Gas or Propane Gas
 Gas Pressure (nominal): 7"wc 11"wc

Gas Flow: 1 Bowl System: 60,000 - 80,000 btu/hr
 2 Bowl System: 120,000 - 160,000 btu/hr
 3 Bowl System: 180,000 - 240,000 btu/hr
 4 Bowl System: 240,000 - 340,000 btu/hr



Description	Model	Material	A (mm)	B (mm)	C (mm)
Essex	FBSCOPESS	Copper	254	787	254
Windsor	FBSCOPWIN	Copper	229	762	229
Corinthian	FBSCOPCOR	Copper	229	737	432
Tuscano	FBSCOPTUS	Copper	279	787	254
Essex	FBSCON31ESS	GFRC	254	787	254
Essex	FBSCON36ESS	GFRC	292	914	254
Biltmore	FBSCON32BILT	GFRC	229	813	457
Fiore	FBSCON32FIO	GFRC	229	813	254
Fiore with pedestal	FBSCON32FIOP	GFRC	381	813	254
Corinthian	FBSCON30COR	GFRC	254	762	432
Garden Bowl	FBSCON32GAR	GFRC	305	787	406
Banded Rim	FBSCON30BAN	GFRC	229	762	254
Banded Rim with pedestal	FBSCON30BANP	GFRC	381	762	356
Legacy S	FBSCON30LEGX12	GFRC	305	762	381
Legacy M	FBSCON30LEGX24	GFRC	610	762	356
Legacy L	FBSCON24LEGX36	GFRC	914	610	330

*Add suffix 'M' for manual type or 'A' for Automated type

Water Bowls



Copper Bowls:



Copper Essex



Copper Corinthian



Copper Tuscano

Concrete (GFRC) Bowls:



Concrete Essex



Concrete Corinthian



Concrete Biltmore



Concrete Legacy Bowl

Water Bowls

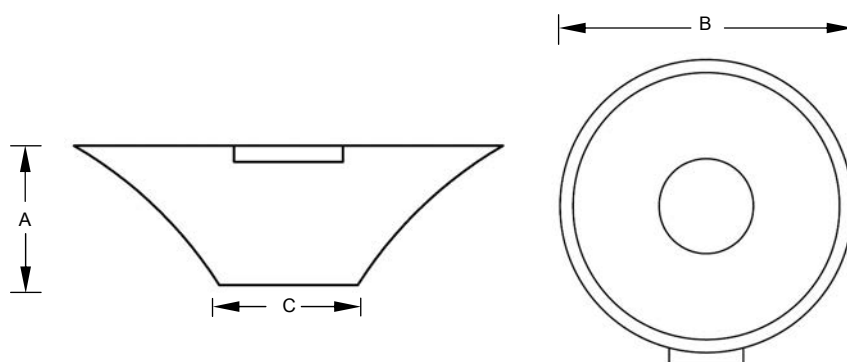
Specifications:

Material:

Hammered Copper or Glass Fibre Reinforced Concrete

Water Flow:

58 lpm



Description	Model	Material	A (mm)	B (mm)	C (mm)
Essex	WBCOPESS	Copper	254	787	254
Corinthian	WBCOPCOR	Copper	229	737	432
Tuscano	WBCOPTUS	Copper	279	787	254
Essex	WBCON31ESS	GFRC	254	787	254
Essex	WBCON36ESS	GFRC	292	914	254
Essex	WBCON48ESS	GFRC	381	1219	356
Biltmore	WBCON32BILT	GFRC	229	813	457
Corinthian	WBCON30COR	GFRC	254	762	432
Legacy	WBCON30LEG	GFRC	305	762	381

Fire Pits



Copper Bowls:



Copper Essex



Copper Grand Corinthian



Copper Linear Grand Corinthian



Copper Cielo



Copper Caldera Table

Concrete (GFRC) Bowls:



Concrete Biltmore



Concrete Grand Corinthian



Concrete Escala



Concrete Essex



Legacy with Ledge Concrete Bowl



Concrete Linear Grand Corinthian

Fire Pits

Specifications:

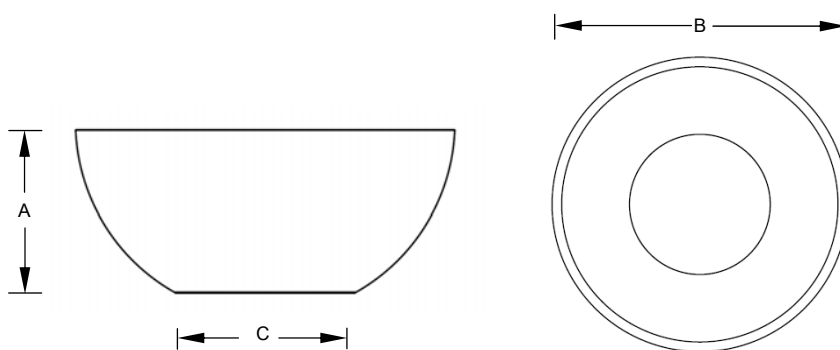
Input Voltage: 220V AC/ 50 Hz to control panel (110V Available on request)

Output Voltage: 24V AC

Gas Type: Natural Gas or Propane Gas

Gas Pressure (nominal): 7"wc 11"wc

Gas Flow: 80,000 - 400,000btu/hr



Description	Model	Material	A (mm)	B (mm)	C (mm)
Essex	FPCOP48ESS	Copper	381	1219	356
Cielo	FPCOP45CIELO	Copper	381	1143	356
Grand Corinthian	FPCOP40GC	Copper	432	1016	610
Grand Corinthian	FPCOP50GC	Copper	432	1270	762
Caldera	FPCOP43CAL	Copper	457	1092	1092
Linear Grand Corinthian	FPCOP60LGC	Copper	495	1537	813
Essex	FPCON48ESS	GFRC	381	1219	356
Essex	FPCON60ESS	GFRC	432	1524	483
Biltmore	FPCON42BILT	GFRC	356	1067	610
Biltmore	FPCON60BILT	GFRC	432	1524	749
Grand Corinthian	FPCON42GC	GFRC	457	1067	610
Legacy	FPCON42LEG	GFRC	457	1067	508
Escala	FPCON42ESC	GFRC	457	1067	508
Linear Grand Corinthian	FPCON	GFRC	559	1524	940

*Add suffix 'M' for manual type or 'A' for Automated type

Fire Pits Inserts/ Fire Bowl Inserts



Specifications:

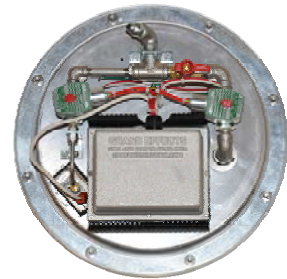
Input Voltage: 220V AC/ 50 Hz to control panel (110V Available on request)
 Output Voltage: 24V AC
 Gas Type: Natural Gas or Propane Gas
 Gas Pressure (nominal): 7"wc 11"wc



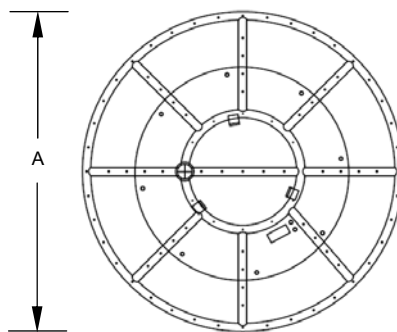
Control Panel



Fire Pit Insert Burner Top with Support Plate



Burner Assembly Bottom



Description	Model	A (mm)	Gas Flow (btu/hr)
Fire Bowl Burner Ring	FBIS9	229	60,000-80,000
Fire Pit Burner Ring	FPIS18	457	120,000
Fire Pit Burner Ring	FPIS24	610	275,000
Fire Pit Burner Ring	FPIS30	762	400,000

*Add suffix 'M' for manual type or 'A' for Automated type

Linear Inserts

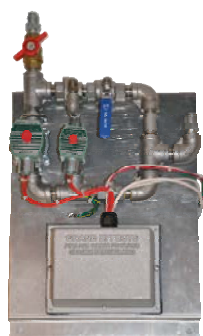


Specifications:

Input Voltage: 220V AC/ 50 Hz to control panel (110V Available on request)
 Output Voltage: 24V AC
 Gas Type: Natural Gas or Propane Gas
 Gas Pressure (nominal): 7"wc 11"wc



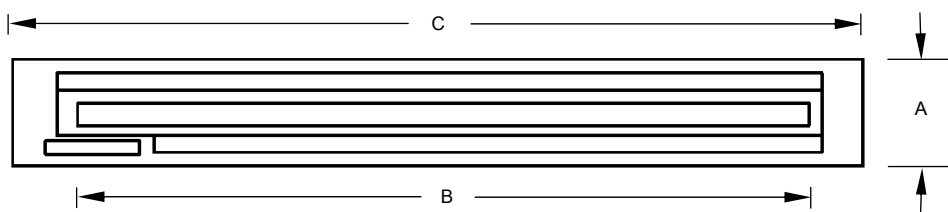
Control Panel



Sub-Panel Assembly



Burner Assembly



Description	Model	A (mm)	B (mm)	C (mm)	Gas Flow (btu/hr)
Linear Burner Inner Mount	LBIN36	330	914	1524	120,000
Linear Burner Inner Mount	LBIN48	330	1219	1829	155,000
Linear Burner Inner Mount	LBIN60	330	1524	2134	190,000
Linear Burner Inner Mount	LBIN72	330	1829	2438	225,000
Linear Burner Inner Mount	LBIN84	330	2134	2743	260,000
Linear Burner Inner Mount	LBIN96	330	2438	3048	295,000
Linear Burner Inner Mount	LBIN108	330	2743	3353	330,000
Linear Burner Inner Mount	LBIN120	330	3048	3658	365,000

*Add suffix 'M' for manual type or 'A' for Automated type

Rock Inserts



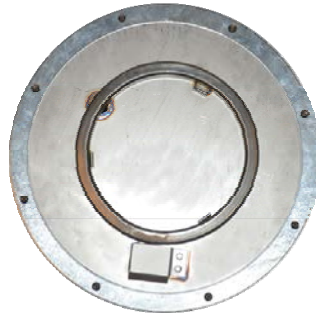
Specifications:

Input Voltage: 220V AC/ 50 Hz to control panel (110V Available on request)
 Output Voltage: 24V AC
 Gas Type: Natural Gas or Propane Gas
 Gas Pressure (nominal): 7"wc 11"wc

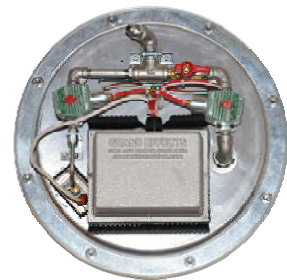
Gas Flow: 60,000 - 80,000 btu/hr



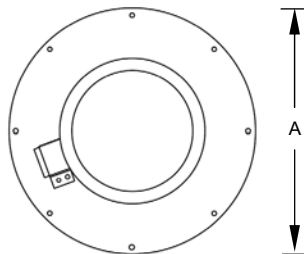
Control Panel



Burner Assembly Top with Support Plate



Burner Assembly Bottom



Description	Model	A (mm)
Rock Insert	RIS9	406

*Add suffix 'M' for manual type or 'A' for Automated type

Fire Candelere



Specifications:

Input Voltage: 220V AC/ 50 Hz to control panel (110V Available on request)
 Output Voltage: 24V AC
 Gas Type: Natural Gas or Propane Gas
 Gas Pressure (nominal): 7"wc 11"wc

Gas Flow: 6,500 btu/hr



Square Stone



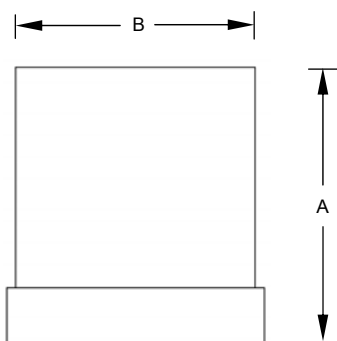
Round Stone



Square Concrete



Round Concrete



Description	Model	A (mm)	B (mm)
Square Stone	FCSS	432	368
Round Stone	FCRS	406	432
Square Concrete	FCSC	432	368
Round Concrete	FCRC	406	432

*Add suffix 'M' for manual type or 'A' for Automated type

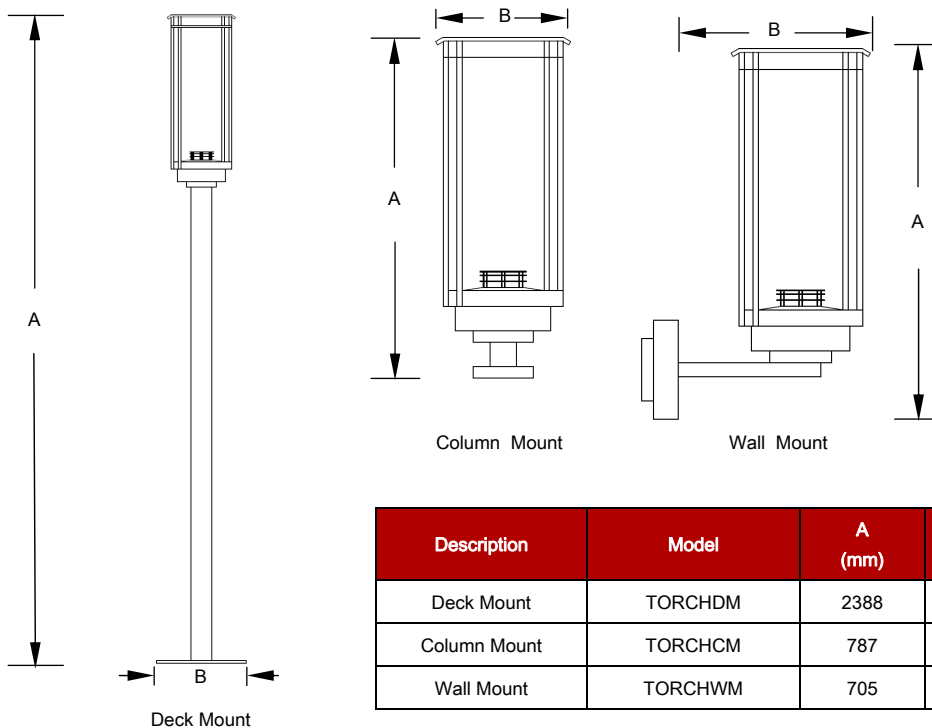
Helix Torch



The Helix torch is available in three types of mounting; Deck, Column and Wall mounted. Perfect for outdoor lighting or as a decorative feature in an outdoor area. The torch's decorative flame is encased in high temperature glass panels creating a venturi effect for a dramatic and unique, spiral like presentation of fire. Optional rain cover.

Specifications:

Input Voltage: 220V AC/ 50 Hz to control panel (110V Available on request)
 Output Voltage: 24V AC
 Gas Type: Natural Gas or Propane Gas
 Gas Pressure (nominal): 7"wc 11"wc
 Gas Flow: 20,000 btu/hr



*Add suffix 'M' for manual type or 'A' for Automated type

Decorative Media

Include Stone or Fire Glass with your fire features for a decorative effect. Our stone and Lava Rock is available in different shapes and sizes, our glass is tempered for long term heat consumption. Choose from a variety of beautiful shapes and colours.

*NOTE: We do not sell glass for propane applications due to safety concerns.

Stone & Lava Rock Media:



Decorative Ceramic Stone
Size: 50-76mm



Lava Rock
Size: 50-127mm



Lava Spheres
Size: 76-102mm



Tumbled Lava Rock
Size: 25-38mm

Standard Fire Glass:



Size: 10-13mm



Size: 13-25mm



Turquoise Blue
Fire Glass



Ocean Blue Fire Glass



Black Fire Glass



Aqua Blue Fire Glass



Chestnut Fire Glass

Standard Concrete Colour Finishes

Shown are standard colour finishes for the concrete fire and water features. We use stains and washes to achieve our beautiful, long lasting finishes. Finishes and colours may vary, colour samples available upon request.

Our concrete bowls incorporate a concrete-fiberglass mix, resulting in a lighter but structurally stronger bowl. Our decorative pieces are beautifully finished with a hand applied process that includes multiple stains and washes and includes a final wax seal. The wax seal provides a deep lustrous finish and protection against fading and discoloration from the outdoor environment.

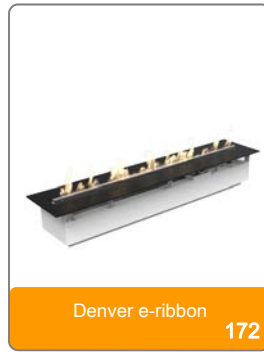
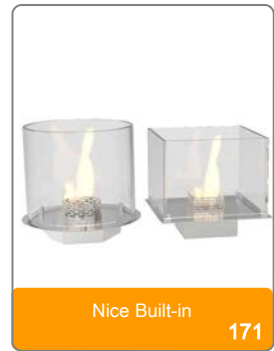
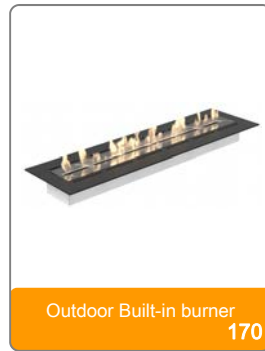
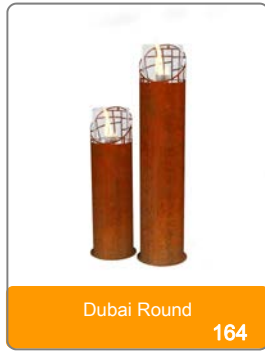
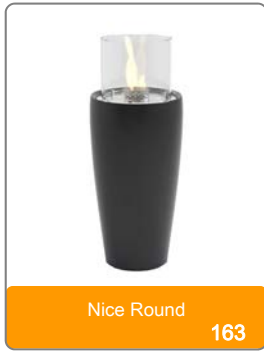


Copper Manufacturing

Our Copper Bowls are beautifully hand made with an oil rubbed bronze finish. The naturally rich look is achieved by heat-setting or tempering the copper to a patina finish. The patina is a living finish that will endlessly regenerate throughout the life of the product with regular use and maintenance.



Bioethanol Fire Features



Nice Round	163
Dubai Round	164
Dubai Square.....	165
Nice Series	166
Monaco Square.....	168
Monaco Round	169
Outdoor Built-in burner 900	170
Nice Built-in	171
Denver e-ribbon Linear Fire	172

The Green Alternative

All our bioethanol fireplaces are fuelled with denatured bioethanol which is a green, non-fossil fuel derived from sugar cane, beets, cereals or even hey. Bioethanol creates only a small amount of CO₂ and water vapour when burning, which means it has a clear combustion without smoke, smell and soot emission and with no need for a chimney or ventilation.



No Chimney

Bioethanol can be used Outdoor and Indoor.

As with all alcohol-based liquids, bioethanol changes its form from liquid to gas at around 17 degrees C. The vapours which develop are heavier than air and remain therefore on top of the surface of the liquid bioethanol. Therefore, it is only the gas which is burning when lit and not the liquid itself.



No Smell



Bioethanol Fuel

As bioethanol is denatured, i.e. made unfit for human consumption, pure bioethanol with 100% alcohol contents is not available. All our fireplaces can be operated only with bioethanol of at least 96% but max. 97.5% purity. For more information on bioethanol or where to buy it, please contact us.



Fuel Consumption

Unlike wood or gas burning fireplaces, the flame behaviour seen in bioethanol fireplaces is very much influenced by air flow around the burner and draft conditions which prevail in the individual setting. Both can have an undesired effect on the combustion temperature and the fuel consumption.

Burner Features

- No chimney required
- No smoke, ash or soot
- Indoor / Outdoor
- Easy to relocate



Nice round

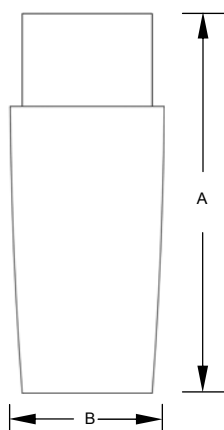


Specifications:

- Burning time: up to 6h
- Net weight: 12kg
- Materials: Burner - brushed stainless steel and hardened, optic-white glass;
Vase - PPE and ABS
- Finish: Any available RAL color.

Available Colours

White High-gloss	Black High-gloss	Charcoal Metallic Matt	Silver Metallic Matt
	Scarlet Red High-gloss	Shiny Taupe High-gloss	



Model	Capacity (L)	Fuel Consumption (l/h)	Heat Output (kW/h)	A (mm)	B (mm)
Nice Round	1.8	0.3	1.8	993	402

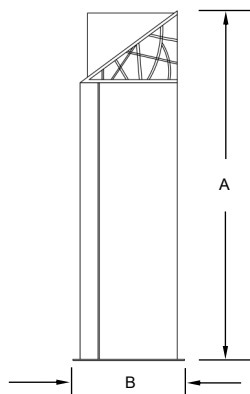


Dubai Round



Specifications:

- Burning time: up to 6h
 Net weight: 50kg / 40kg
 Materials: Burner - brushed stainless steel and hardened, optic-white glass; Column - corten steel.
 Finish: Corten, black and white. Optionally any RAL color.



Standard Finishes



Optional



Model	Capacity (L)	Fuel Consumption (l/h)	Heat Output (kW/h)	A (mm)	B (mm)
Dubai Round-Tower	1.8	0.3	1.8	1604	386
Dubai Round-Lounge	1.8	0.3	1.8	1204	386

Dubai Square

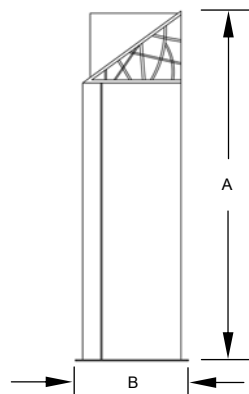


Specifications:

Burning time: up to 6h
 Net weight: 50kg / 40kg
 Materials: Burner - brushed stainless steel and hardened, optic-white glass; Column - corten steel
 Finish: Corten, black and white. Optionally any RAL color

Standard Finishes

Optional



Model	Capacity (L)	Fuel Consumption (l/h)	Heat Output (kW/h)	A (mm)	B (mm)
Dubai Square-Tower	1.8	0.3	1.8	1600	400
Dubai Square-Lounge	1.8	0.3	1.8	1200	400

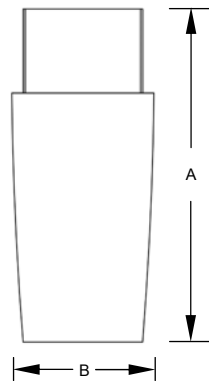
Nice Series



Specifications:

- Burning time: up to 6h
 Net weight: 16kg / 11kg / 15kg
 Materials: Burner - brushed stainless steel and hardened white-optic glass;
 Vase - PPE and ABS
 Finish: Tower and Lounge - any available RAL color.
 Cube - only cottage color palette.

Available Colours



White High-gloss	Black High-gloss	Charcoal Metallic Matt
Shiny Taupe High-gloss	Cottage White	Cottage Black
Silver Metallic Matt	Scarlet Red High-gloss	Cottage Granite
Cottage Mocha		

Model	Capacity (L)	Fuel Consumption (l/h)	Heat Output (kW/h)	A (mm)	B (mm)
Nice-Tower	1.8	0.3	1.8	935	395
Nice-Lounge	1.25	0.3	1.8	735	295
Nice-Cube	1.8	0.3	1.8	600	390
Nice Tower - Table top	1.8	0.3	1.8	325	345
Nice Lounge - Table top	1.25	0.3	1.8	275	250

Nice Series



Nice Cube - Cottage White



Table Top - Black



Table Top - Brushed



Nice Lounge - Cottage Granite



Nice Tower - White



Monaco Square



Specifications:

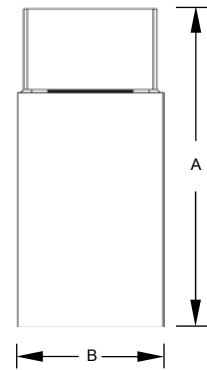
- Burning time: up to 6h
- Net weight: 22kg / 20kg
- Materials: Burner - brushed stainless steel and hardened, optic-white glass; Column - stainless steel.
- Finish: Brushed stainless steel, white, black. Optionally any RAL color.



Standard Finishes



Optional



Model	Capacity (L)	Fuel Consumption (l/h)	Heat Output (kW/h)	A (mm)	B (mm)
Monaco Sq-Tower	1.8	0.3	1.8	950	430
Monaco Sq-Lounge	1.8	0.3	1.8	700	430

Monaco Round



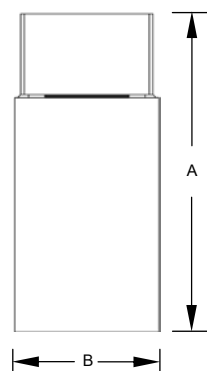
Specifications:

Burning time: up to 6h
 Net weight: 22kg / 20kg
 Materials: Burner - brushed stainless steel and hardened, optic-white glass; Column - stainless steel.
 Finish: Brushed stainless steel, white, black. Optionally any RAL color.



Standard Finishes

Optional



Model	Capacity (L)	Fuel Consumption (l/h)	Heat Output (kW/h)	A (mm)	B (mm)
Monaco Rnd-Tower	1.8	0.3	1.8	950	430
Monaco Rnd-Lounge	1.8	0.3	1.8	700	430

Outdoor Built-in Burner 900



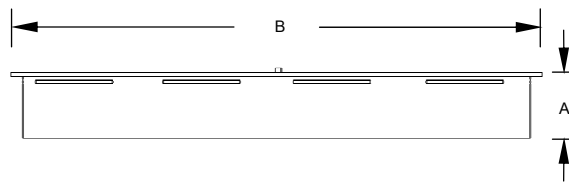
Specifications:

Burning time: 7h - 14h

Net weight: 18kg

Materials: Burner - brushed stainless steel; optionally - hardened, white-optic glass.

Finish: Brushed stainless steel.



Standard Finish



Model	Capacity (L)	Fuel Consumption (l/h)	Heat Output (kW/h)	A (mm)	B (mm)
Outdoor Linear 900	10	0.7-1.4	4.1-8.2	115	980



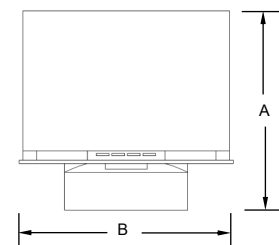
Nice Built-In Burner



Specifications:

Burning time: up to 6h
 Net weight: 16kg / 11kg / 15kg
 Materials: Burner - brushed stainless steel and hardened white-optic glass;
 Vase - PPE and ABS
 Finish: Brushed Stainless steel

Model	Capacity (L)	Fuel Consumption (l/h)	Heat Output (kW/h)	A (mm)	B (mm)
Nice Built-In-Tower	1.8	0.3	1.8	317	340
Nice Built-In-Lounge	1.25	0.3	1.8	267	245
Nice Built-In-Round	1.8	0.3	1.8	314	330



Denver e-Ribbon Linear Fire - Automated



Specifications:

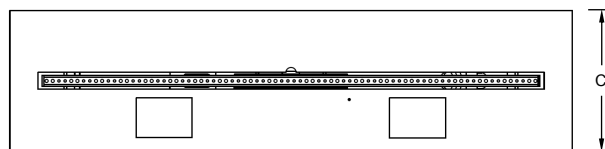
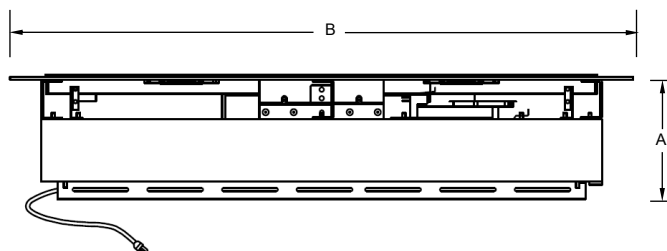
Burning time: 8h+
 Length: Standard or can be customised up to 5 metres
 Power supply: 220V - 240V 50Hz
 Materials: Burner - brushed stainless steel and hardened, optic-white glass;

Features:

- e-ribbon technology
- Touch display
- Bluetooth/ app control
- Remote control
- 6 flame levels
- Smart Home connection
- Safety sensors
- No Chimney required
- 5mm Steel baseplate
- Sleep timer
- Safety chamber

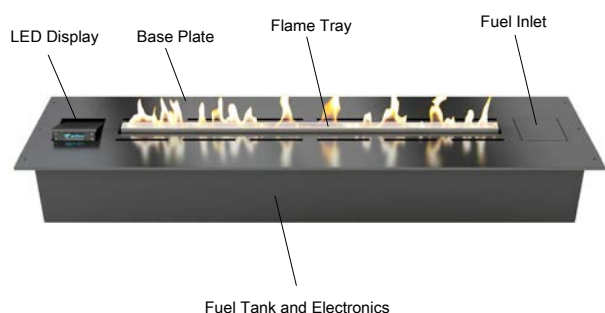
Optional:

- Made to measure
- Glass screens
- Integration in made to measure fire places
- RAL colours
- TV temp. sensor



Model	Capacity (L)	Fuel Consumption (l/h)	Heat Output (kW/h)	A (mm)	B (mm)	C (mm)
Denver-700	5.7	0.25-0.66	1.4-3.8	190	700	250
Denver-800	6.7	0.28-0.77	1.6-4.5	190	800	250
Denver-900	7.6	0.32-0.9	1.9-5.1	190	900	250
Denver-1000	8.5	0.35-1	2.1-5.7	190	1000	250
Denver-1100	9.5	0.4-1.1	2.3-6.4	190	1100	250
Denver-1500	13	0.56-1.54	3.2-8.9	190	1500	250
Denver-2000	17.56	0.95-1.9	5.5-11	190	2000	250

Denver e-Ribbon Linear Fire - Automated



Design Construction

The patented e-Ribbon Fire features:

- Flame tray (customisable width)
- Base plate (customisable size – minimum depth 250mm)
- Two pop-up lids (hiding the display and fuel inlet)
- Fuel tank and electronics (not visible once installed)
- Touch display



Easy installation

The fires featuring the e-Ribbon Fire technology can be installed almost anywhere, e.g. built-into walls or as part of a furniture – as long as the surrounding surface is made of nonflammable material. Bioethanol as a fuel enables an easy installation with no need for a flue or chimney – you really only need to connect the fire to the main power supply.

Easy to fill

The remotely controlled e-Ribbon Fire is ideal for applications in public spaces like restaurants, hotels, spas and office buildings where operating personnel usually varies and continuity in ease of operation is essential. With a large fuel tank able to hold several litres of bioethanol, the Denver e-Ribbon Fire can burn for hours on one tank filling.

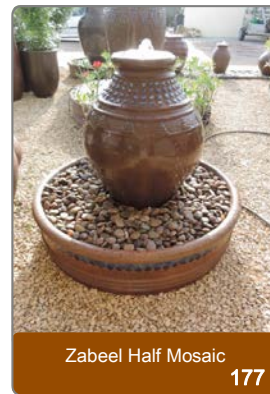
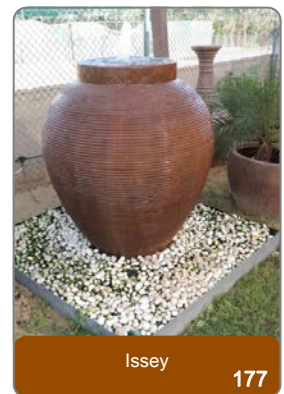
Easy to operate

A user-friendly operating display and a remote control provide easily understandable settings and feed-back messages. It is also possible to control the fire using a smartphone or a tablet via Bluetooth. You are able to control the flame intensity, check the fuel consumption, fuel level and heat output, pre-set a timer and of course turn the fire on and off.





Water Feature Pots



Water Feature Pots

Made from glass fibre reinforced concrete, the water feature pots are hand painted making each pot unique. Each pot or set of pots are supplied with a basin including grating, white polished pebbles, valves, fittings and pump. Single water feature pots can be positioned on top of a wide based pot to be used as the basin. These are ideal for installation on hardscapes or where excavation is difficult. Pots can be purchased separately (without sump of fittings) for installation in existing or custom water features.

Specifications:

Pot Material: Glass fibre reinforced concrete

Pump Electrical Connection: 220-240V



Puro Mosaic Set



Dune



Zabeel Mosaic Set



Moroccan Mosaic Set



Dune mosaic Set



Wasali Mosaic Set

Water Feature Pots



Leopard Mosaic Set



Issey



Malaya Mosaic Set



La Fait Full Mosaic



Zabeel Half Mosaic



Sufuria Mosaic

Water Feature Pots

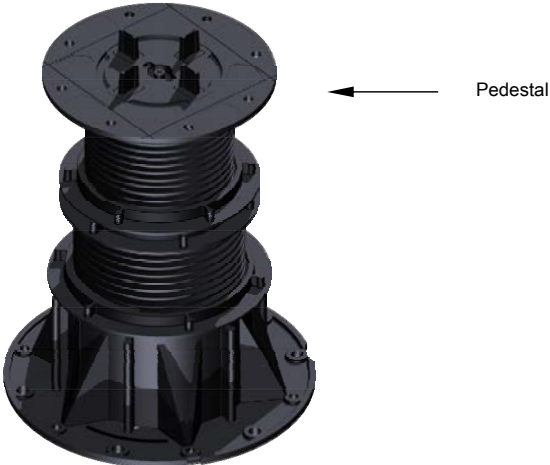
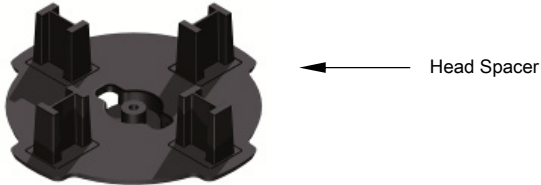
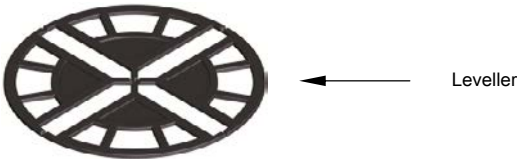
Type	Model	Size
Puro Mosaic Set	Puro-M1300	L 1300 x 700
	Puro-M1100	M 1100 x 550
	Puro-M840	S 840 x 480
Dune	Dune-XS620	XS 620 x 400
Zabeel Mosaic Set	Zab-M1900	L 1900 x 700
	Zab-M1600	M 1600 x 700
	Zab-M1330	S 1330 x 700
Moroccan Mosaic Set	Moro-M1800	L 1800 x 650
	Moro-M1460	M 1460 x 650
	Moro-M1150	S 1150 x 600
Sufuria Mosaic	Sufu-M1350	L 1350 x 970
	Sufu-M1150	M 1100 x 860
	Sufu-M900	S 900 x 760
Leopard Mosaic Set	Leo-M1100	L 1100 x 750
	Leo-M970	M 970 x 700
	Leo-M700	S 700 x 580
Malaya Mosaic Set	Mala-M1380	L 1380 x 660
	Mala-M1110	M 1110 x 620
	Mala-M820	S 820 x 480
Wasali Mosaic Set	Wasa-M990	L 990 x 520
	Wasa-M890	M 890 x 450
	Wasa-M640	S 640 x 350
Dune mosaic Set	Dune-M1500	L 1500 x 720
	Dune-M1100	M 1100 x 550
	Dune-M880	S 880 x 550
La Fait Full Mosaic	Fait-M1770	L 1770 x 870
	Fait-M1370	M 1370 x 760
	Fait-M1000	S 1000 x 570
Zabeel Half Mosaic	Zab-HM	850 x 700
Issey	Isy-560	560 x 640

*Basins sizes are selected as per the quantity of water feature pots ordered. Can be customized on request. Contact Aquashi for further information.

Pedestals



Component breakdown:



Pedestal

Function:

The pedestals provide adjustable height support for all your decking and flooring requirements. For use on terraces, pool side, walkways, roofing and fountains. The pedestals are available in heights from 35mm - 1020mm with a high load resistance of 800kg each. The pedestals height can be increased or decreased by adding or removing supports. Each support has a threaded base for a more precise adjustment.

Specifications:

Material: Polypropylene



Benefits:

- Simple and fast installation
- Perfect level adjustment
- Easy maintenance
- Allows access for passage of systems underneath the flooring.

Accessories:

- Removable head with optional flooring spacing from 2.2 - 10mm. (See pedestal Header Spacer)
- Add on levelers for uneven floor surface. Available from 1% - 3%. Each leveler simply clips onto the base of the pedestal without the need of screws or clamps. Multiple levelers can be used on the same pedestal if required.

Model	Height (mm)
240-617-001-035	35-50
240-617-001-050	50-75
240-617-001-075	75-120
240-617-001-115	115-220
240-617-001-215	215-320
240-617-001-315	315-420

Model	Height (mm)
240-617-001-415	415-520
240-617-001-515	515-620
240-617-001-615	615-720
240-617-001-715	715-820
240-617-001-815	815-920
240-617-001-915	915-1020

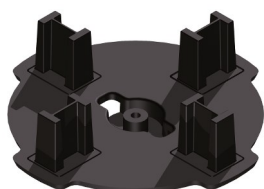
Pedestal Head Spacer

Function:

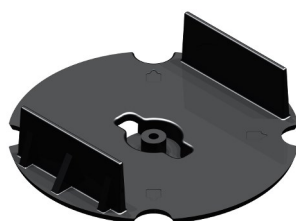
Head spacers are used to secure the flooring while adjusting the floor spacing according to the site requirements. They are available with fins from 2.2 -10mm grouting thickness for tiles and with single fins for laterally fixed joists. For use with dry deck fountain features a minimum grouting space of 8mm is recommended for adequate drainage.

Specifications:

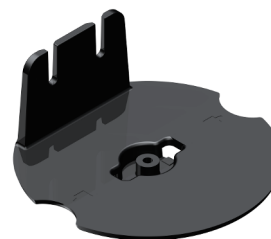
Material: Polypropylene



Type 1



Type 2



Type 3

Type	Model	Description	Spacing (mm)
1	240-500-016-002	Head Spacer	2.2
	240-500-016-004	Head Spacer	4
	240-500-016-006	Head Spacer	6
	240-500-016-008	Head Spacer	8
	240-500-016-010	Head Spacer	10
2	240-500-020-060	Head Spacer	60
3	240-500-020-070	Head Spacer	70

Pedestal Leveller

Function:

The leveller is a 2.5mm thick disc that is used in combination with the pedestal and head spacer to correct uneven sub base or tile imperfections. Overlapping waterproofing membranes can also create uneven surfaces which may be difficult to correct with the supports or slope corrector. The leveller can be positioned under the pedestal support for an uneven sub base or on top of the head spacer for tile imperfections. Pre-incisions around the leveller allow the user to cut sections as desired.

Specifications:

Material: Rigid Polypropylene
Soft rubber with anti-shock function

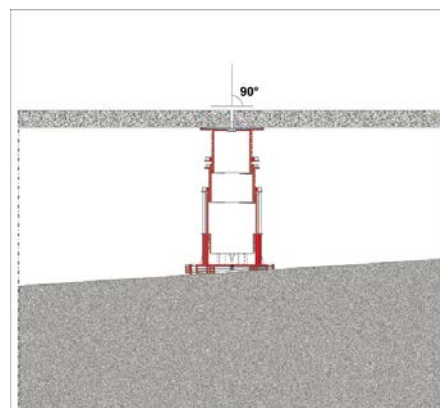


Model	Material	A (mm)	B (mm)
240-901-150-003	Rigid Polypropylene	150	2.5
240-910-150-003	Rubber anti shock	150	2.5

Slope Correctors

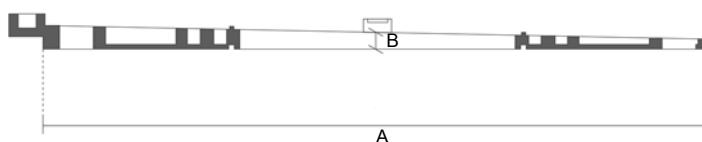
Function:

The slope correctors are designed to be installed directly onto the base of the adjustable pedestal to ensure better stability on sloped surfaces as well as optimising load absorption. Available in 1%, 2% & 3% percent increments, the slope correctors have quick connect hooks for a fast and easy installation. Each corrector applied to the base of the pedestal increases its height by 5mm. Multiple correctors can be used together to match the slope percentage increment.



Specifications:

Material: Polypropylene



CP-1



CP-2

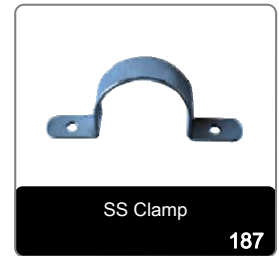
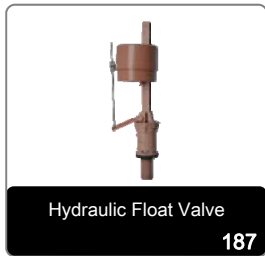


CP-3

Model	Corrector	A (mm)	B (mm)
CP-1	1%	200	5
CP-2	2%	200	5
CP-3	3%	200	5



Accessories



Accessories



PAR56 Halogen Lamp	Type	For use with
PAR56-300	300W	LSP-S300



Electrical Cables	Type	For use with
LCAB-001	2C - 1mm ²	FSC Series, FSCLED, WLS-C, LSP-PLW, LSP-PLS, FMC, FMCLED
LCAB-002	2C - 1.5mm ²	FSLED-X031, RGLED-X031, SHLED-X031
LCAB-003	2C - 4mm ²	LSP-S300
LCAB-004	4C - 0.75mm ²	FSLED-X030, RGLED-X030, SHLED-X030



Cord Seal Kit	Type	For use with
LCS-001	1/2"	CS-050, CS051
LCS-002	3/4"	CS-075 & CS-076



Lighting Stand	Type	For use with
LSTD-001		FSLED Series



Plastic/ Silicone Nozzle Adaptor	Type	For use with
LPA-001	Plastic	RGLED Series
LSA-001	Silicone	RGLED Series



Junction Box Gasket	Type	For use with
LBG-001	2 Way	JB-2
LBG-002	4 Way	JB-4
LBG-003	8 Way	JB-8
LBG-004	12 Way	JB-12
LBG-010	4 Way	JBF-4 & JBM-4
LBG-011	8 Way	JBF-8 & JBM-8



Cord Seal Plug	Type	For use with
LCSP-001	1/2"	JB, JMF, JBM Series
LCSP-002	3/4"	JBM Series



Potting Compound	Type	For use with
PCR-100	300 Grams	JB, JBF & JBM Series
PCR-200	600 Grams	JB, JBF & JBM Series

Replacement Parts



Hydraulic Float Valve	Type	For use with
CFV-001		HLC Series



Float Level Sensor	Type	For use with
CFS-001		WLS, WLS-C & FLS Series



Stainless Steel Clamp	Type	For use with
CSC-001		WLS-C Series



Anemometer	Type	For use with
ANE-030	30m	WCA-100



Drain Plug	Type	For use with
ADP-200	2"	DP Series
ADP-300	3"	DP Series
ADP-400	4"	DP Series



Bronze AV/ Diffuser plate	Type	For use with
DAV-001	200mm	SDF-200, IFF-200
DAV-002	310mm	SDF-300, SDF-400, IFF-300, IFF-400
DAV-003	400mm	SDF-600, SDF-800, IFF-600, IFF-800



Lava Rock	Type	For use with
LR032	1" - 2"	32" Fire bowls
LR048	1" - 2"	48" Fire bowls
LR060	1" - 2"	60" Fire bowls



Engineering Data

Conversion Data

Flow

1 L/min (LPM)	=	0.220 GPM
1 L/min (LPM)	=	0.264 USGPM
1 GPM	=	4.546 L/min
1 GPM	=	1.2 USGPM
1 USGPM	=	3.785 L/min
1 USGPM	=	0.833 GPM
1 M3/hr	=	4.403 USGPM
1 M3/hr	=	16.67 L/min
1 M3/hr	=	0.278 L/sec
1 L/sec	=	3.6 M3/hr
1 L/min	=	0.06 M3/hr

Pressure

1 m/ head	=	0.1 bar/ 9.82 kpa/ 3.28' head/ 1.422 PSI
1' head	=	0.305m/ 2.99 kpa/ 0.0305 bar/ 0.433 PSI
bar	=	100 KPA

Length

1 centimeter (cm)	=	10 millimeters (mm)
1 inch	=	2.54 centimeters (cm)
1 foot	=	0.3048 meters (m)
1 foot	=	12 inches
1 yard	=	3 feet
1 meter (m)	=	100 centimeters (cm)
1 meter (m)	=	3.280839895 feet
1 furlong	=	660 feet
1 kilometer (km)	=	1000 meters (m)
1 kilometer (km)	=	0.62137119 miles
1 mile	=	5280 ft
1 mile	=	1.609344 kilometers (km)
1 nautical mile	=	1.852 kilometers (km)

Weight

1 milligram (mg)	=	0.001 grams (g)
1 gram (g)	=	0.001 kilograms (kg)
1 gram (g)	=	0.035273962 ounces
1 ounce	=	28.34952312 grams (g)
1 ounce	=	0.0625 pounds
1 pound (lb)	=	16 ounces
1 pound (lb)	=	0.45359237 kilograms (kg)
1 kilogram (kg)	=	1000 grams
1 kilogram (kg)	=	35.273962 ounces
1 kilogram (kg)	=	2.20462262 pounds (lb)
1 stone	=	14 pounds
1 short ton	=	2000 pounds

Area

1 square foot	=	144 square inches
1 square foot	=	929.0304 square centimeters
1 square yard	=	9 square feet
1 square meter	=	10.7639104 square feet
1 acre	=	43,560 square feet
1 hectare	=	10,000 square meters
1 hectare	=	2.4710538 acres
1 square kilometer	=	100 hectares
1 square mile	=	2.58998811 square kilometers
1 square mile	=	640 acres

Conversion Data

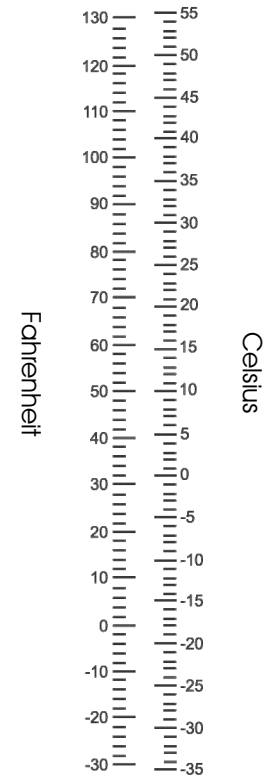
Speed

1 mile per hour (mph)	=	1.46666667 feet per second (fps)
1 mile per hour (mph)	=	1.609344 kilometers per hour
1 knot	=	1.150779448 miles per hour
1 foot per second	=	0.68181818 miles per hour (mph)
1 kilometer per hour	=	0.62137119 miles per hour (mph)

Volume

1 US tablespoon	=	3 US teaspoons
1 US fluid ounce	=	29.57353 milliliters (ml)
1 US cup	=	16 US tablespoons
1 US cup	=	2 US cups
1 US pint	=	16 US fluid ounces
1 liter (l)	=	33.8140227 US fluid ounces
1 liter (l)	=	1000 milliliters (ml)
1 US quart	=	2 US pints
1 US gallon	=	4 US quarts
1 US gallon	=	3.78541178 liters

Temperature



Recommended flow rates in uPVC pipes

Suction line not exceeding 1.5m/s Velocity

Pipe Dia.	Flow			
	L/S	LPM	GPM	M ³ /Hr
1.5	2.05	123	32.472	7.38
2	3.20	192	50.688	11.52
2.5	5	300	79.20	18
3	7	420	110.88	25.20
4	11.50	690	182.16	41.40
6	25	1500	396	90
8	45	2700	712.80	162
10	70	4200	1108.80	252
12	95	5700	1504.80	342

Delivery line not exceeding 2.4m/s Velocity

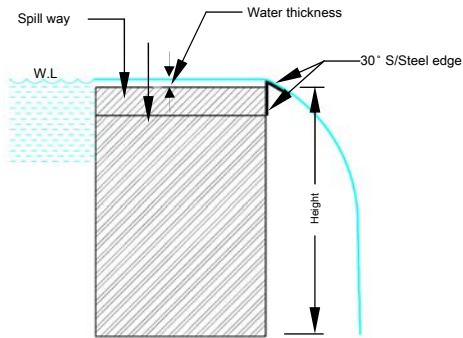
Pipe Dia.	Flow			
	L/S	LPM	GPM	M ³ /Hr
1.5	3.20	192	50.688	11.52
2	5.20	312	82.368	18.72
2.5	8	480	126.72	28.80
3	11.50	690	182.16	41.40
4	18.80	1128	297.792	67.68
6	40	2400	633.60	144
8	73	4380	1156.32	262.80
10	110	6600	1742.40	396
12	160	9600	2534.40	576

These descriptions can be altered for a reason of improvement without any notification.

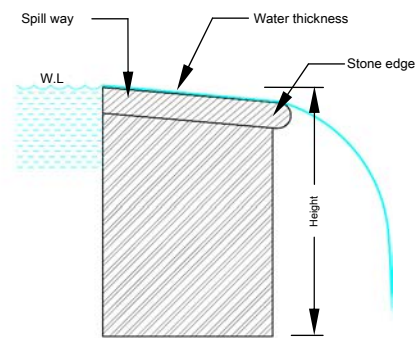
Recommended Waterfall Flow Calculation

As a curtain of water falls it accelerates and stretches until it finally breaks up. The higher the waterfall the larger the spill thickness required to maintain the water curtains integrity. As a general rule 1mm thickness of water is equivalent to 25 LPM of water per meter. As an example, for a spill thickness of 5mm, the flow required is $5 \times 25 = 125$ LPM/ m length of water fall. Ideally a spillway should have a horizontal component to stabilize the flow of water before the incline in which the water will accelerate. Spillways can be made from concrete but the best effects are achieved with metal or polished stone with a downward angle of 30° to 45° from horizontal, which serves to throw the water forward. Textured surfaces will require a greater spill thickness and flow of water. Windy conditions will also require greater flows to avoid the curtain breaking up. Even so it is difficult to create a perfect unblemished sheet more than 2m high.

Spill Thickness (mm)	Flow (LPM)	Waterfall Height (m)
2	50	0.25
4	100	0.50
6	150	0.75
8	200	1
10	250	1.25
12	300	1.50
14	350	1.75
16	400	2
18	450	2.20
20	500	2.40
22	550	2.60
24	600	2.80
26	650	3
28	700	3.20
30	750	3.40



Spill way section with SS edge



Spill way section with stone edge

Flow Velocity and Friction loss in uPVC pipes Schedule 40

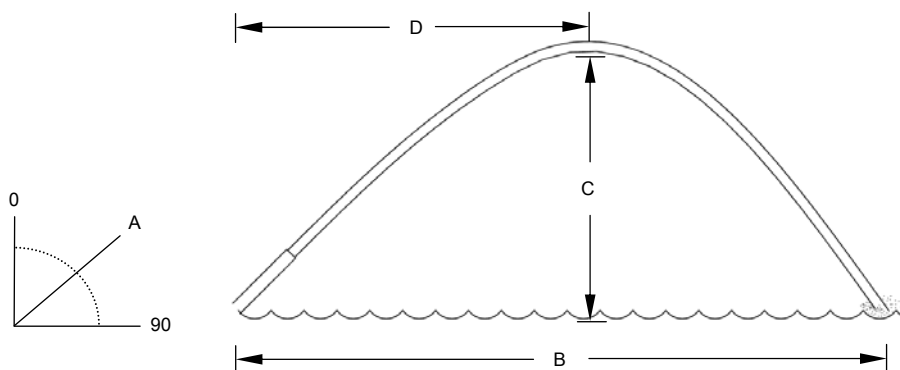
Flow Rate (Gal per Min)	1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"		5"	
	Flow Velocity (ft/sec.)	Friction Loss (Ft.Water r/ 100ft)	Flow Velocity (ft/sec.)	Friction Loss (Ft.Water r/ 100ft)	Flow Velocity (ft/sec.)	Friction Loss (Ft.Water / 100ft)	Flow Velocity (ft/sec.)	Friction Loss (Ft.Water / 100ft)	Flow Velocity (ft/sec.)	Friction Loss (Ft.Water/ 100ft)	Flow Velocity (ft/sec.)	Friction Loss (Ft.Water / 100ft)	Flow Velocity (ft/sec.)	Friction Loss (Ft.Wate r/ 100ft)	Flow Velocity (ft/sec.)	Friction Loss (Ft.Water / 100ft)	Flow Velocity (ft/sec.)	Friction Loss (Ft.Water / 100ft)	Flow Velocity (ft/sec.)	Friction Loss (Ft.Wate r/ 100ft)
1	1.13	1.16	0.63	0.28	0.39	0.09	0.22	0.02	0.16	0.01	0.1	0	0.07	0	0.04	0				
2	2.25	4.19	1.26	1.03	0.77	0.31	0.44	0.08	0.32	0.04	0.19	0.01	0.14	0	0.09	0				
5	5.63	22.88	3.16	5.6	1.93	1.69	1.1	0.43	0.81	0.2	0.49	0.06	0.34	0.02	0.22	0.01				
7	7.88	42.66	4.42	10.44	2.7	3.14	1.55	0.81	1.13	0.38	0.68	0.11	0.48	0.05	0.31	0.02				
10	11.26	82.59	6.31	20.21	3.86	6.08	2.21	1.57	1.62	0.38	0.97	0.21	0.68	0.09	0.44	0.03				
15			9.47	42.82	5.78	12.89	3.31	3.32	2.42	1.55	1.46	0.45	1.02	0.19	0.66	0.07				
20			12.63	72.95	7.71	21.96	4.42	5.65	3.23	2.64	1.95	0.77	1.37	0.33	0.88	0.11	0.51	0.03		
25					9.64	33.2	5.52	8.55	4.04	4	2.44	1.17	1.71	0.49	1.1	0.17	0.64	0.05		
30					11.57	46.54	6.62	11.98	4.85	5.6	2.92	1.64	2.05	0.69	1.32	0.24	0.77	0.06	0.49	0.02
35							7.73	15.94	5.65	7.45	3.41	2.18	2.39	0.92	1.54	0.32	0.89	0.08	0.57	0.03
40							8.83	20.41	6.46	9.54	3.9	2.79	2.73	1.18	1.76	0.41	1.02	0.11	0.65	0.04
45							9.94	25.39	7.27	11.87	4.39	3.47	3.07	1.46	1.99	0.51	1.15	0.13	0.73	0.04
50							11.04	30.86	8.08	14.43	4.87	4.22	3.14	1.78	2.21	0.61	1.28	0.16	0.81	0.05
60									9.69	20.22	5.85	5.92	4.1	2.49	2.65	0.86	1.53	0.23	0.97	0.08
70											6.82	7.87	4.78	3.32	3.09	1.15	1.79	0.3	1.14	0.1
75											7.31	8.94	5.12	3.77	3.31	1.3	1.92	0.34	1.22	0.11
80											7.8	10.08	5.46	4.25	3.53	1.47	2.04	0.39	1.3	0.13
90											8.77	12.53	6.15	5.28	3.97	1.82	2.3	0.48	1.46	0.16
100											9.74	15.23	6.83	6.42	4.41	2.22	2.55	0.59	1.62	0.19
125											12.18	23.03	8.54	9.7	5.52	3.35	3.19	0.89	2.03	0.29
150													10.24	13.6	6.62	4.7	3.83	1.24	2.43	0.41
175															7.72	6.25	4.47	1.65	2.84	0.55
200															8.82	8	5.11	2.12	3.25	0.7
250															11.03	12.1	6.39	3.2	4.06	1.06
300																	7.66	4.49	4.87	1.49
350																	8.94	5.97	5.68	1.98
400																	10.22	7.64	6.49	2.54
450																			7.3	3.15
500																			8.11	3.83
750																				
1000																				
1250																				
1500																				
2000																				
2500																				
3000																				
3500																				
4000																				
4500																				
5000																				
5500																				
6000																				
7000																				
7500																				
8000																				
8500																				

Flow Velocity and Friction loss in uPVC pipes Schedule 40

Flow Rate (Gal per Min)	6"		8"		10"		12"		14"		16"		18"		20"		24"	
	Flow Velocity (ft/sec.)	Friction Loss (Ft.Water / 100ft)	Flow Velocity (ft/sec.)	Friction Loss (Ft.Water / 100ft)	Flow Velocity (ft/sec.)	Friction Loss (Ft.Water / 100ft)	Flow Velocity (ft/sec.)	Friction Loss (Ft.Water / 100ft)	Flow Velocity (ft/sec.)	Friction Loss (Ft.Water / 100ft)	Flow Velocity (ft/sec.)	Friction Loss (Ft.Water / 100ft)	Flow Velocity (ft/sec.)	Friction Loss (Ft.Water / 100ft)	Flow Velocity (ft/sec.)	Friction Loss (Ft.Water / 100ft)	Flow Velocity (ft/sec.)	Friction Loss (Ft.Water / 100ft)
1																		
2																		
5																		
7																		
10																		
15																		
20																		
25																		
30																		
35																		
40																		
45																		
50	0.56	0.02																
60	0.67	0.03																
70	0.79	0.04																
75	0.84	0.05																
80	0.9	0.05																
90	1.01	0.07																
100	1.12	0.08	0.65	0.02														
125	1.4	0.12	0.81	0.03														
150	1.68	0.17	0.97	0.04														
175	1.96	0.22	1.13	0.06														
200	2.25	0.29	1.29	0.08	0.82	0.02												
250	2.81	0.43	1.62	0.11	1.03	0.04												
300	3.37	0.61	1.94	0.16	1.23	0.05												
350	3.93	0.81	2.27	0.21	1.44	0.07	1.01	0.03										
400	4.49	1.03	2.59	0.27	1.64	0.09	1.16	0.04	0.96	0.02	0.73	0.01						
450	5.05	1.29	2.91	0.34	1.85	0.11	1.3	0.05	1.08	0.03	0.82	0.02						
500	5.61	1.56	3.24	0.41	2.05	0.14	1.44	0.06	1.19	0.04	0.91	0.02						
750			4.85	0.87	3.08	0.29	2.17	0.12	1.79	0.08	1.37	0.04	1.08	0.02				
1000			6.47	1.48	4.1	0.49	2.89	0.21	2.39	0.13	1.83	0.07	1.45	0.04	0.16	0.02		
1250					5.13	0.74	3.61	0.31	2.99	0.2	2.29	0.1	1.81	0.06	1.45	0.03		
1500					6.15	1.03	4.33	0.44	3.58	0.28	2.74	0.14	2.17	0.08	1.74	0.05	1.21	0.02
2000							5.78	0.75	4.78	0.47	3.66	0.25	2.89	0.14	2.32	0.08	1.61	0.03
2500							7.22	1.13	5.97	0.71	4.57	0.37	3.61	0.21	2.91	0.12	2.01	0.05
3000									7.17	1	5.49	0.52	4.34	0.29	3.49	0.17	2.41	0.07
3500											6.4	0.7	5.06	0.39	4.07	0.23	2.81	0.09
4000													5.78	0.5	4.65	0.3	3.21	0.12
4500													6.5	0.62	5.23	0.37	3.62	0.15
5000															5.81	0.45	4.02	0.18
5500															6.39	0.53	4.42	0.22
6000															6.97	0.63	4.82	0.25
7000																	5.62	0.34
7500																	6.03	0.39
8000																	6.43	0.43
8500																	6.83	0.49

Spray Design Calculation

The spray design calculations are based on non turbulent flow of water.



A	E	C	D
5°	0.40	245%	64%
15°	0.90	99%	59%
25°	1.50	50%	56%
35°	1.80	36%	53%
45°	2.10	27%	52%
55°	1.94	22%	51%
65°	1.83	17%	49%
75°	1.33	11%	46%
85°	0.90	6%	36%

Label	Description
A	Angle of Nozzle elevation from vertical
B	Horizontal distance of throw from nozzle
C	Height of trajectory in percentage of B
D	Highest point of trajectory in horizontal distance from Nozzle measured in percentage of B
E	Multiplying or dividing factor for spray design calculations
V	Vertical spray height

To Find	How
Horizontal distance of throw for a desired angle of spray, when only the vertical spray height is known.	Establish vertical spray height (factor "V") and multiply the same by factor "E" to achieve horizontal spray distance. Horizontal Distance = (V X E)
Performance requirement for a spray pattern with know angle of nozzle discharge or the equivalent vertical spray height performance requirements.	Establish horizontal distance of throw from nozzle and divide by factor E on the same line as shown discharge angle of nozzle. This will give vertical spray height which is then used to find performance requirements. Vertical Spray height. = A - (B / E)
Trajectory of a spray of water	Establish horizontal distance of throw (B) then calculate factors "D" and "C" there of and combine the results with "B" to lay out the trajectory.
The jet elevation angle ("A") for the specification of particular trajectories or spray effects.	Establish horizontal distance of throw ("B") calculate highest point of trajectory("C") thereof and read on the table the angle of elevation ("A") on the same line as the result of the calculated height of trajectory ("C")

TERMS AND CONDITIONS OF SALE

1. ORDER ACKNOWLEDGEMENT

The acceptance of any order is expressly subject to the purchaser's acceptance of the terms and conditions set forth below.

- 1.1 All orders must be made in writing as a Purchase Order on company headed paper and/ or signed accordingly. Orders will then be processed on receipt of purchase order and advance payment subject to credit terms.
- 1.2 The Terms and Conditions of Sale shall apply to all future transactions with the purchaser, even if they are not enclosed in individual cases.
- 1.3 Aquashi reserves the right to accept or reject any order.

2. FREIGHT COSTS

- 2.1 Quotations are quoted Ex-works Dubai, UAE for the MENA region or Ex-works London, UK for Europe and North America. Urgent orders can be purchased from either location pending stock availability. All freight costs are extra, unless stated otherwise.
- 2.2 Standard packaging is included for Aquashi products. When special packaging is required such as wooden crating and/ or custom pallets an additional charge will be added to the Proforma Invoice to cover the extra expense.

3. PRICES

- 3.1 Prices do not include insurance, certificates or crating unless otherwise stated. Local taxes are the responsibility of the purchaser unless an exemption certificate is provided.
- 3.2 The price list, descriptions, prices and the equipment described herein are subject to change, alteration, deletion and or improvement without notice.
- 3.3 Quotations are limited to a 30-day period in which Aquashi will reserve the price quoted to the purchaser. After this date all prices are subject to change without prior notice.
- 3.4 The International price list (all countries outside of Europe) is quoted in US Dollars.
The European price list (limited to Europe) is quoted in UK Pound Sterling.

4. TERMS OF PAYMENT AND CREDIT

- 4.1 Aquashi payment terms are 50% Advance/ 50% Prior to delivery of materials unless stated otherwise.
100% Advance is required for custom manufactured products or orders below \$2000.
- 4.2 Credit limits can be provided to the purchaser at the sole discretion of Aquashi to established accounts. All purchases beyond existing credit terms must be pre-paid. The products sold will remain the property of Aquashi until payment has been received full.
- 4.3 Payments can be made via Bank transfer or Local currency check for the regional office involved in the transaction (UK or UAE).
- 4.4 All banking commissions and payment charges are the responsibility of the purchaser.

5. DEFAULT OR DELAY IN PAYMENT

- 5.1 If the purchaser delays or defaults on its payment, Aquashi reserves the right to hold the order, defer further shipments and/or cancel the order until such payments are made in full or by satisfactory credit arrangements agreed upon.

6. ORDER CANCELLATION

- 6.1 All purchase orders are final and cannot be modified or altered by the purchaser without the written consent of Aquashi subject to the conditions agreed upon to protect Aquashi against any or all losses.
- 6.2 If the circumstances require the order to be cancelled then Aquashi will immediately stop any further work related to this order and/ or cancel the unshipped balance of the purchase order forfeiting deposits made by the purchaser in such instances.

7. DELIVERY

- 7.1 All products are available ex-works London, UK or Dubai, UAE.
Delivery to areas outside of this scope will be subject to a delivery charge.
The mode of transportation and transit insurance is to be selected by the purchaser. Delivery undertaken directly by the purchaser is done at their own risk and cost.
- 7.2 All items available at site must be collected within 10 working days after notice of arrival. Failure to do so will result in a storage charge per day.
- 7.3 Delivery dates and periods stated by Aquashi are non-binding unless agreed otherwise.
- 7.4 Delivery dates quoted are correct at time of writing and are subject to change after the 30-day period. Revised dates will be provided upon confirmation of order.
- 7.5 The commencement of delivery is subject to receipt of all required documents from the purchaser including payment. The delivery will be suspended in the case of non-payment or delayed payment by the purchaser, or extended if the purchaser requests modifications to the supply of products.

- 7.6 Partial deliveries are permitted if the purchaser accepts and/or requires such a method of delivery.
- 7.6 Aquashi endeavours to deliver on or before the delivery date quoted, however we cannot be held responsible for delays beyond our control, including but not limited to, acts of God, strikes, customs delay and shortage of parts.
- 7.7 Aquashi reserves the right to supply an alternative brand or substitute product when necessary.

8. WARRANTY

- 8.1 Aquashi hereby confirm our products are manufactured under stringent quality standards and will perform in accordance with the product specifications when properly installed in compliance with all installation details provided by Aquashi. Our products are guaranteed at time of sale. Aquashi will repair or replace all faulty parts during the warranty period subject to terms and conditions expressed in the Warranty.
- 8.2 For goods of other manufacturers purchased through Aquashi as part of our equipment or by itself, warranty will be provided by the original manufacturer.

9. CLAIMS

- 9.1 Claims made on damaged or faulty equipment must be made promptly, in writing to Aquashi no later than 7 days after receipt of goods by the purchaser. If no claim is made within the 7 days period the items shall be deemed accepted.

10. LITERATURE

- 10.1 All descriptions, weights and/ or dimensions are given according to the best knowledge available at the time writing and are subject to correction, change, deletion and/ or additions without notice.

11. PROPERTY RIGHTS

- 11.1 Aquashi retains all intellectual and industrial property rights related to the goods and/ or services provided, including, but not limited to, pending patents, trademark rights and trade secret rights.
- 11.2 Illustrations, drawings, calculations, photographs, images, technical details and other documents provided should not be accessible to third parties without the written consent of Aquashi.
- 11.3 Aquashi is registered trademark identifying equipment as manufactured by and for Aquashi.

12. PURCHASER OBLIGATIONS

- 12.1 All electric/ electronic products must be installed by a licensed or certified electrician in accordance with the local codes and practices. Improper installation may create electrical hazards, which could result in death or serious injury to the installer or others. In such a case, Aquashi assumes no responsibility for any or all claims, consequences and/ or conditions resulting from improper installation, handling and/ or use of our products.
- 12.2 The water quality of the pool must be in accordance with the following standards:

PH 7.2- 7.6

Calcium hardness 150 – 400 mg/l

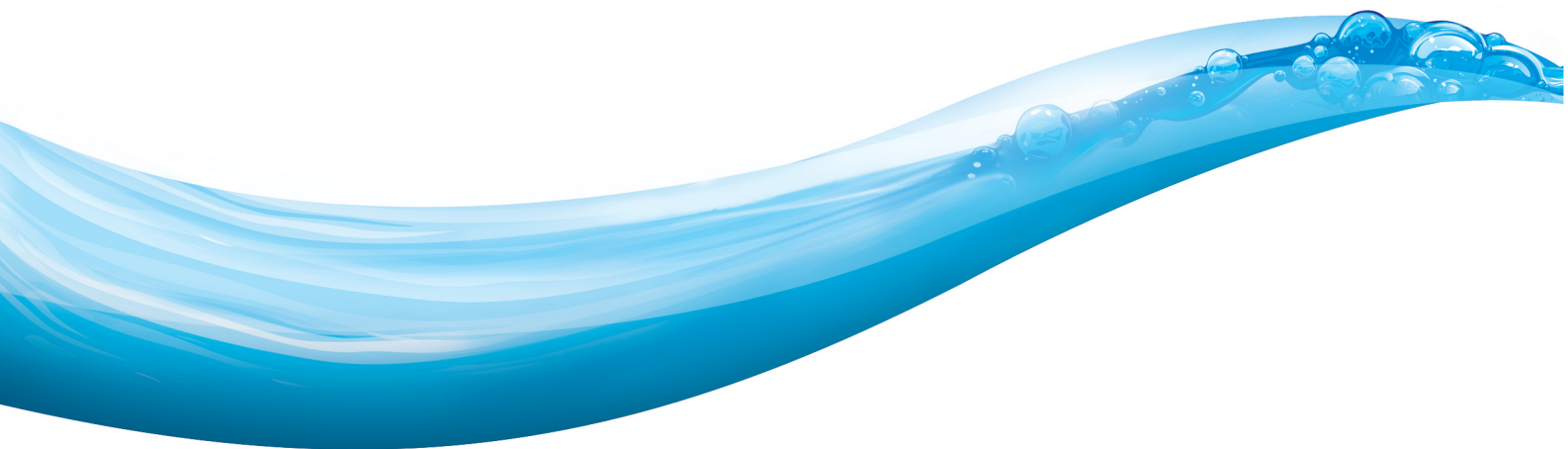
Aquashi will not be held responsible for any repairs or replacements that become necessary due to the fact that the system is operated with water that does not meet the above requirements. All defects or interferences caused by the quality of water not meeting the above requirements will not be covered under the Aquashi warranty.



Emirates International School - Abu Dhabi



Abu Dhabi Municipality Public Park



Aquashi London

Unit 6, Eagle Trading Estate,
Brooker's Road, Billingshurst,
West Sussex, RH14 9RZ
Tel: +44 203 475 5045
Fax: +44 203 475 5035

www.aquashi.co.uk
sales@aquashi.co.uk

Aquashi Dubai

1704, Palace Tower,
Silicon Oasis, Dubai,
UAE, PO Box: 232976
Tel: + 971 4 3208777
Fax: + 971 4 3202244