NOVA™
Fountain

Total Fountain Solutions

GCS SERVICES
www.novafountain.com.sg

2024 International
Ver.14.1

NOVA™ Fountain

"Animating water is our mission.
We are based in Singapore
but we distribute globally."

ABOUT OUR COMPANY

Founded in 2007 in Singapore, GCS Services designs and manufactures fountain components and control systems under the brand “NOVA Fountain”.

With decades of collective experience in R&D of water features, fountain product development and commercial fountain projects, GCS Services provides a full range of support to clients such as owner, designer, main contractor, fountain companies from design to commissioning, in addition to supply of NOVA products. GCS Services can assist with planning, proposals, equipment selection, system configuration, installation instructions, commissioning and operational training.



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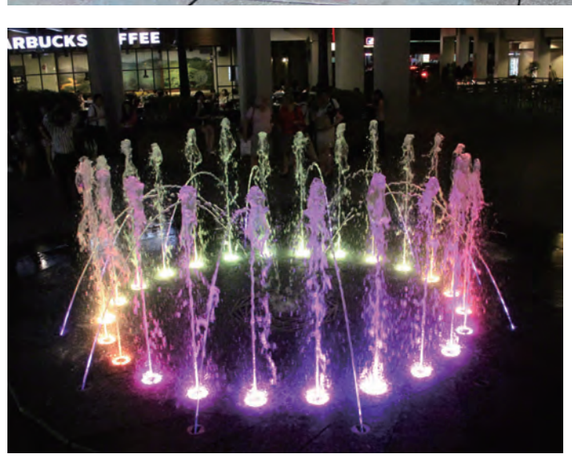
BUGIS JUNCTION, SINGAPORE

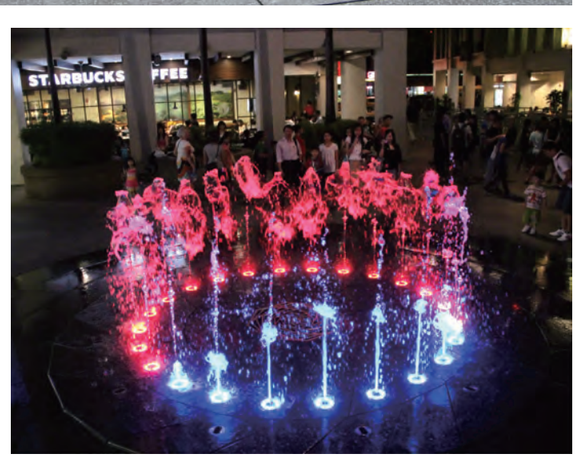
With the inclusion of the DMX system to the control of the 24 aerated jets and 12 jumping jets, it offers unlimited water displays in an otherwise plain and simple fountain - perfectly suited for compact public urban spaces.

Its jets and lights operate in perfect synchronization to form a highly entertaining show. The lack of a physical barrier between the spectator and the fountain allows visitors to interact freely, much to the great delight of children. Since its complete revamp in 2011, the Bugis Junction Plaza Fountain is now an attraction in its own right.

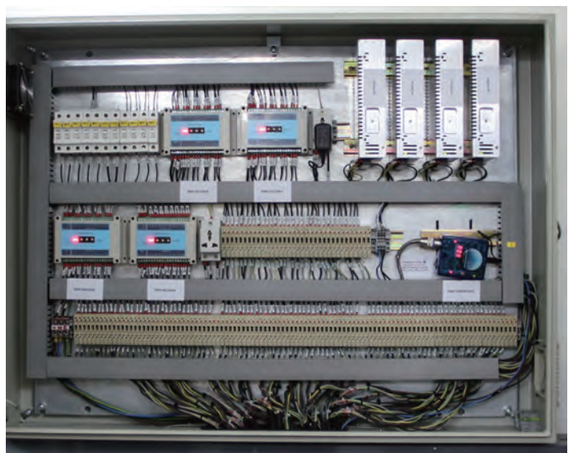
PROJECT SHOWCASE











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JUMPING JETS AT D'LEEDON RESIDENCE, SINGAPORE

A luxurious landmark designed by world-renowned architect Zaha Hadid, the sinuous and organic curves of the waterscapes seamlessly complement its unique building structures.
The fluidity of the waterscapes is further accentuated by elegantly poised water movements.

These 27 jumping jets are illuminated from within, and wistfully leap in perfect harmony with the help of a DMX controller.



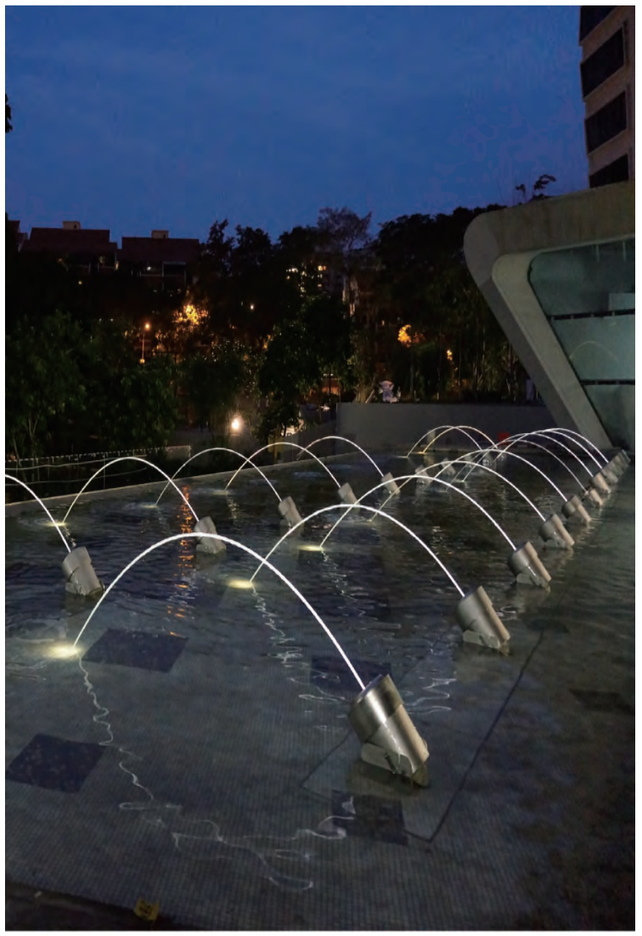












PROJECT SHOWCASE

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SHOOTER JETS AT D'LEEDON RESIDENCE, SINGAPORE

Another luxurious landmark designed by world-renowned architect Zaha Hadid, the sinuous and organic curves of the waterscapes seamlessly complement its unique building structures.

The fluidity of the waterscapes is further accentuated by elegantly poised water movements.

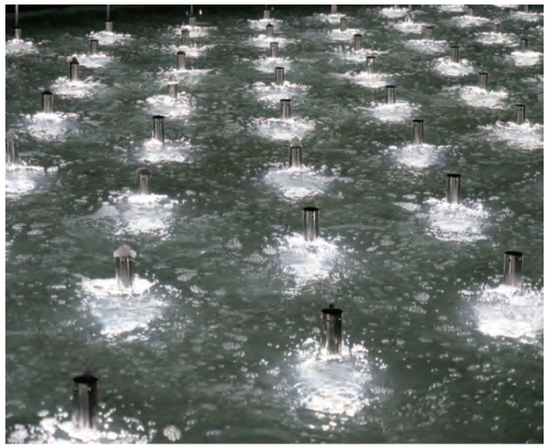
The staggered array of water jets, with all 102 of them mounted on waterswitches, is a classy and elegant harmony of water and light effects synced to a melodious rhythm.















PROJECT SHOWCASE

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SHAW HOUSE, ORCHARD ROAD, SINGAPORE

One of the largest shopping malls along Singapore’s main shopping belt Orchard Road, Shaw House is a favorite for shopaholics from all over the world.

Shoppers may also soothe their tired legs in the accompaniment of the graceful water arches.

There are jumping jets aligned along both sides of the entrance, welcoming shoppers to the mall with its elegance.











THE METROPOLIS, SINGAPORE

The Metropolis is an iconic integrated development with impressive waterscapes.

The chic linear array of LED foam effect jets leads the way to the drop-off point, akin to a red carpet welcome for all important business visitors.
The bubble fountains at the driveway and entrance are in the midst of lush greenery,delighting visitors with its tranquility.

Columns of aerated jets provide the water pool with a consistently undulating water surface in the midst of lush greenery, enhancing the overall landscape design.



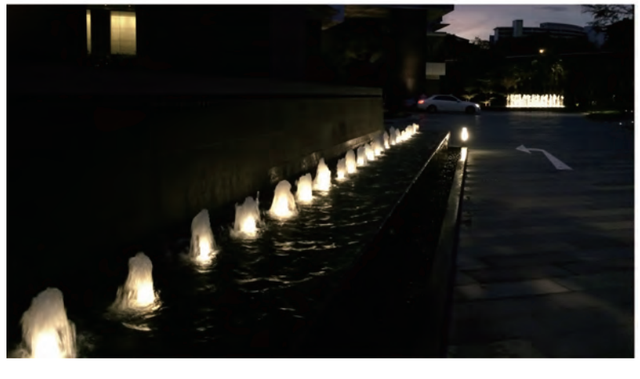


















SADONG JAYA, MALAYSIA

In the successive lineup of 50 comet nozzles, all fixed on WaterSwitch with complementing lighting, this simple formation further visually emphasizes the spontaneous and charismatic movement of the water.

Fully DMX programmed and choreographed, the water constantly flits along with the changing lighting colours to form a stunning waterscape display.











PROJECT SHOWCASE

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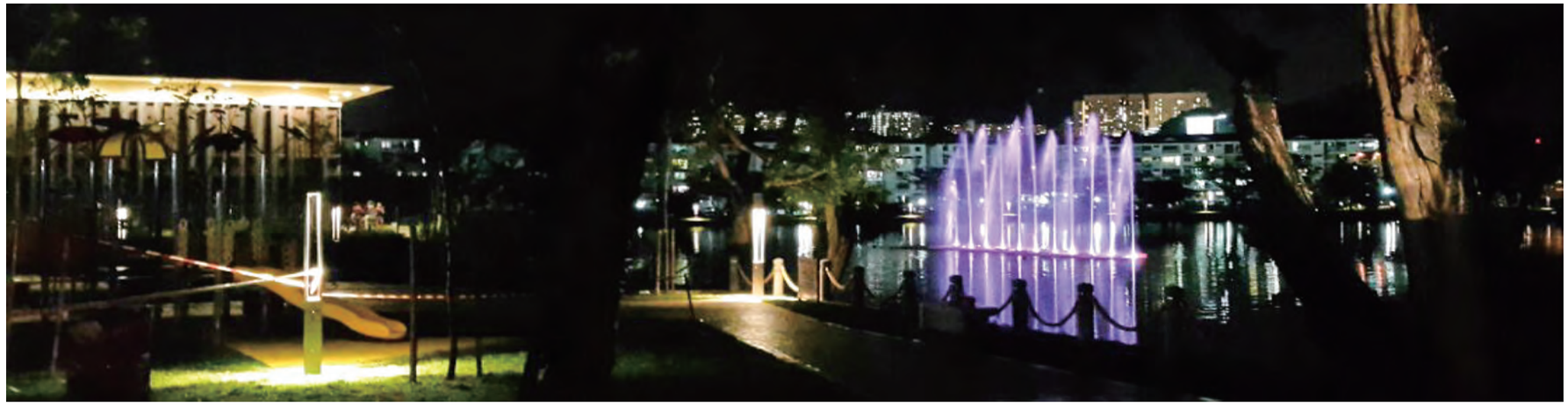
PANDAN LAKE, KUALA LUMPUR, MALAYSIA

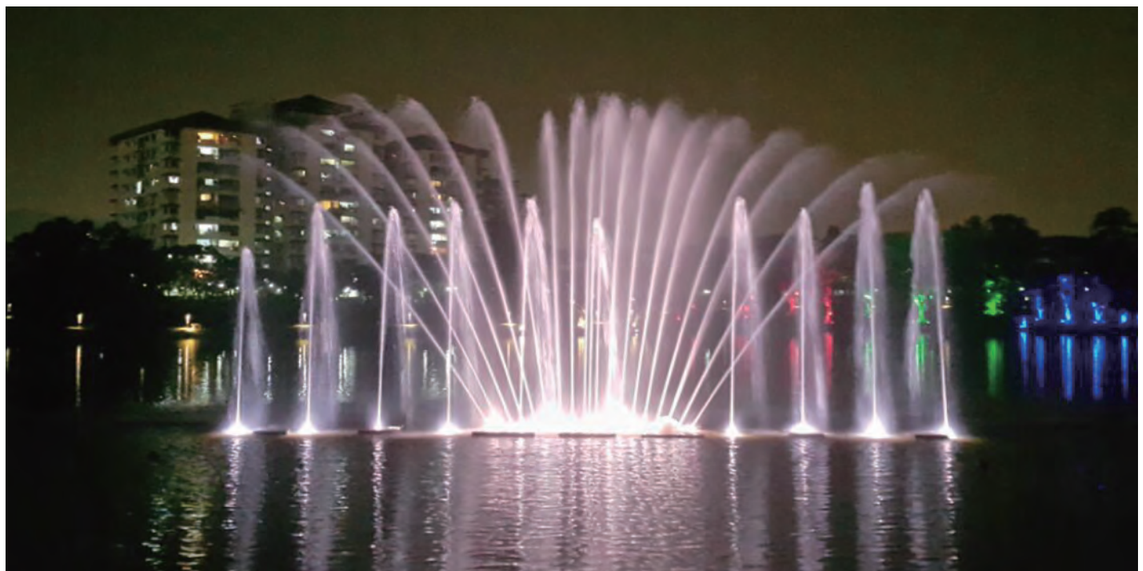
To bring out the night scenery of a lake, a prominent floating fountain will surely be the focal point for visitors.

With all 11 comet nozzles, all fixed on waterswitches accentuated by colour rich illumination and programmed with DMX, this mesmerising routine is guaranteed to razzle-dazzle its audience.









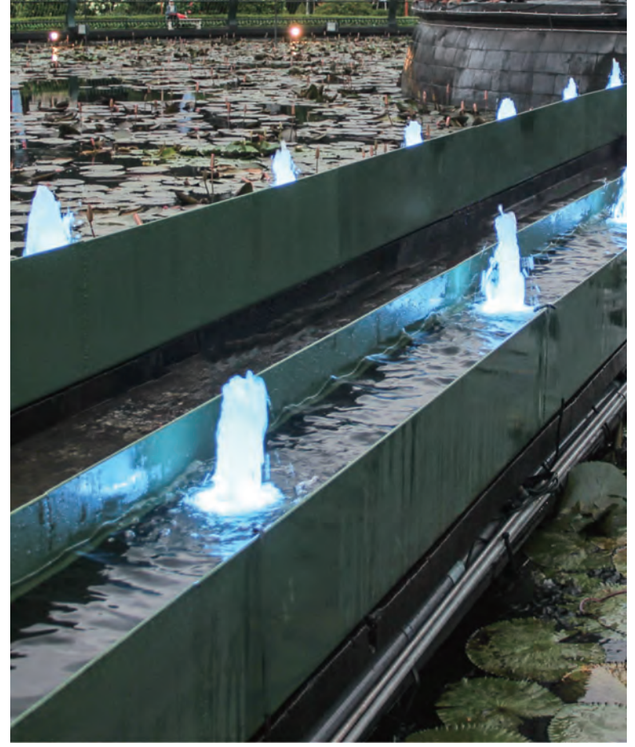


PROJECT SHOWCASE

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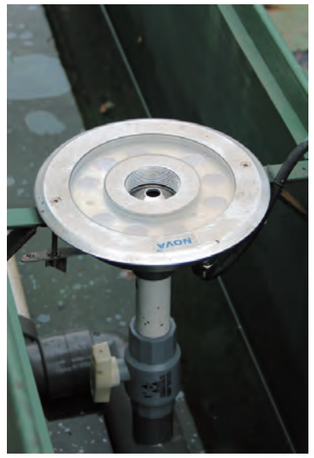


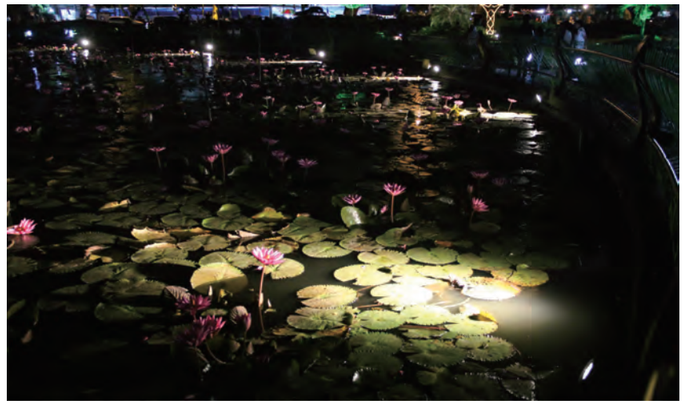


TUGU MALANG, INDONESIA

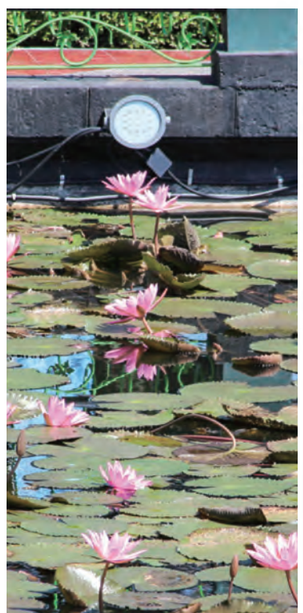
Visiting the monument at night is an entirely different sensory experience from daytime.

Visitors walking along an isle of colorful lighting in the middle of the lotus pond will find themselves up close with random bursts of fog - the exotic atmosphere just keeps building up as you approach the historic landmark.













PROJECT SHOWCASE

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KENJERAN THP SURABAYA, INDONESIA

Bridge Kenjeran is glamorized by the adjacent dancing musical fountain, jazzing to the grooves of ‘Surabaya oh Surabaya’.

The lavishly-programmed parade of water and light effects will wow any visitor at this attraction. Do not be fooled by its seemingly simple linear layout - with just 64 comet nozzles mounted on WaterSwitches, the assortment of effects are countless.

Specially designed with sophistication, precision and experience, some effects are exclusive to this fountain and such excellence can only be delivered by truly capable specialists in the industry.







PROJECT SHOWCASE

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BALAI KOTA AMONG TANI KOTA BATU, INDONESIA

Among Tani Kota Batu was given a facelift, turning it into a spectacular town centre and enhancing its position as a tourist destination, even attractive to domestic tourists.

With the magnificent building as a backdrop, the facade is especially lively at night with the historical music fountain show.

Made up with just 30 comet jets and LED ring lights attached on waterswitches and fully controlled by DMX, visitors will be impressed with the vibrancy of the glorious facade, and a scent of the building's colorful past.















SCI PARK, HONG KONG, CHINA

The musical fountain is located in Hong Kong Science Park.
80 shooter jets with a blue and a white lights each, 10 pumps are equally divided into northern and southern parts.
Company with the splendid music, two lines of water columns rise and dance follow the rhythm in its show time.
All fountain equipments are controlled by a NOVA integrated DMX system.











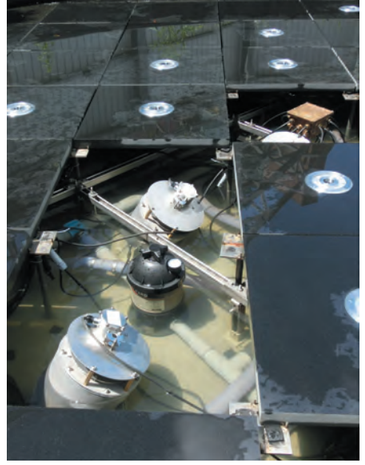




PROJECT SHOWCASE

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VICTORIA PEAK, HONG KONG, CHINA

The project at Victoria Peak is again a refurbishment of an old fountain. Its original pneumatic pop jets are replaced with 44 brand-new pop jets (WaterSwitch and LED ring light), with spray heights varying from 0 to 2.2m. The 8 jumping jets which criss-cross the complex add a graceful dimension to the overall waterscape.

WaterSwitches are selected for this project to improve the uniformity of the water heights and the switching speed of the water jets. With the upgrade of DMX controllers, the system synchronisation performance has been further enhanced.









PROJECT SHOWCASE

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INTERNATIONAL DANCE CENTER, SHANGHAI, CHINA

At the Shanghai International Dance Center, it seems only befitting that the water fountain design concept is synonymous with the graceful notion of dancing. With this fundamental concept in mind, the final design of the waterscape comprised two rows of water jets lined in a diametrical assembly to complement the elegant arches of the architectural landscape.

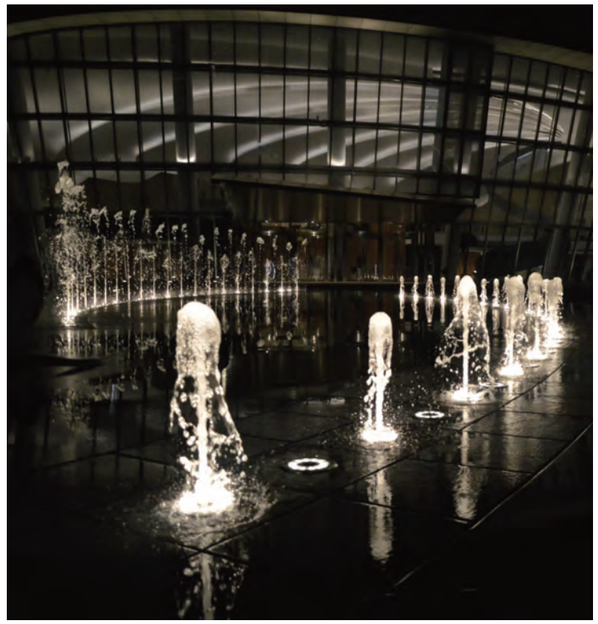
At night, water and light effects are controlled by the DMX system, synced to a melodious rhythmic water display. Its elegance is further accentuated by the warm white illumination of the water.

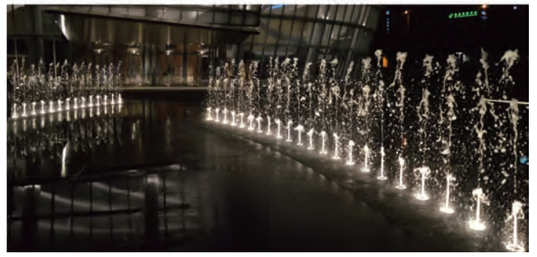
86 shooter jets are used Foam nozzle with WaterSwitch and LED ring light, and with the VFD, the jets are capable of spraying up to a height of 3 meters. It is integrated with the latest NOVA control panel, and a user-friendly system interface, allowing users to easily operate the system.









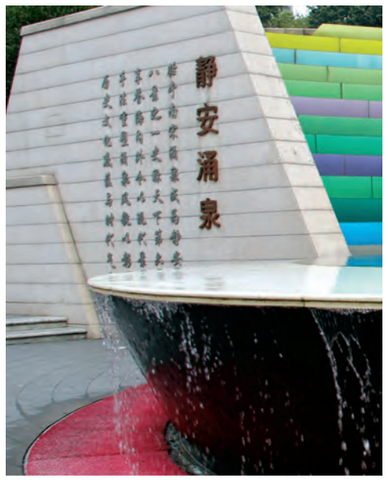














JING'AN SUBWAY PLAZA, SHANGHAI, CHINA

The ancient Jing'an temple is famous with its eight sights. The spring so called "The Sixth Spring Under Heaven" is one of them. Time had caused the old spring to disintegrate into shattered memories.

In 2009, GCS has refurbished the fountain with more technology in original site.
Nowadays the new image of the fountain is a lilied jade ring.
With 169 LED bright spots around the ineredge, a spring of water is welling up to eternal life.













CULTURE SQUARE, SHANGHAI, CHINA

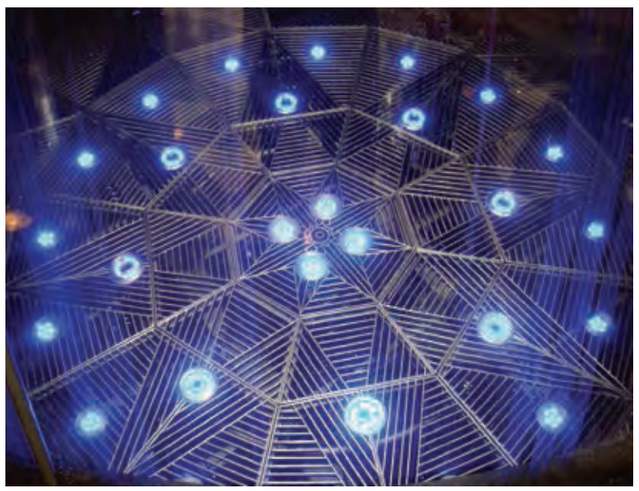
A water feature complex contained splash fountain,shooter jets,bubble jets,water eyes and waterfall.127 true color underwater LED lights of different groups add great details and layers to the whole image.Shutting the splash fountain,a patch is then appeared which can be used for carpet show.

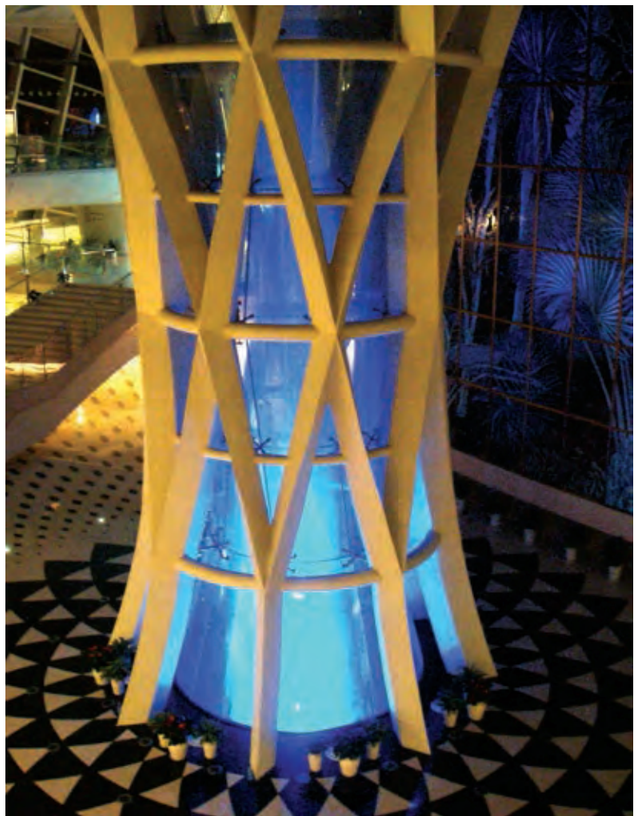














ODEUM

A huge funneled roofing grid structure dives into the ground, foaming an 18m deep rainwater shaft, thus a unique water feature is then naturally composited from the lobby of the odeum, a 12m height main jet inside the funnel bursts out from beneath, dancing with a group of 8 foam jets and 16 parabolic jets that break through the flickering colorful mist.















THE PENINSULA, SHANGHAI, CHINA

The Peninsula has its reason to be the world top level hotel.

A beautiful Spanish style sculpture is installed in front of the hotel's main entrance, the classical look allows the hotel to be immersed in an European palace atmosphere.

GCS designs the water to fall from the head of sculpture slowly, which brings not only dynamic feeling, but also the musical sound.

At two sides of the hotel's porch, two symmetrical frothy fountains installed by GCS effectively brings fullness of life.





PROJECT SHOWCASE

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SHOOTER JETS AT ZHANG YUAN SUBWAY PLAZA, SHANGHAI, CHINA

The project is located at Zhangyuan subway plaza of Shanghai. The design of this fountain aims to create the pleasant visual effect of the combination of water and those underwater LED lights, which can have different color. The overall performance that given by the fountain and lights would impress every passing by spectator, particularly in the evening.

There are 31 shooter jets which composed of a (ZL25-12)comet nozzle with a (WS2520) WaterSwitch, a (HX170R-18T) LED ring light each. The spray height changes between o~1.5m by the VFD controlled pumping.

The individual DMX signal makes sure that each light can present its best illumination effects that we all will enjoy seeing.



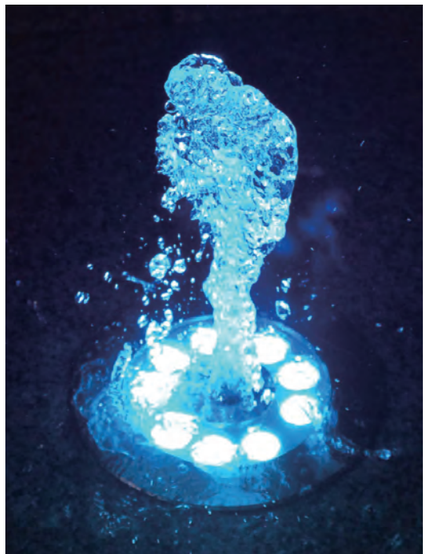












PROJECT SHOWCASE

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NINE TREES FUTURE ART CENTER, SHANGHAI, CHINA

The Nine Tree Future Art Center features the combination of concepts of forest, architecture, nature, civic center, water, humanity and art. The design of its fountain is built upon the theme of "Nine Tree Future Art Center", which artistically integrates the element of water and gives vitality to the project.

Not only does the fountain embrace the surrounding environment seamlessly, but add unique beautiful effect as well. By using different varieties of fountain equipments, the fountain produces superb effects of combination of lights and dynamic watery scene. The beautiful watery scene along with colorful light renders grandeur that attract numerous spectators.

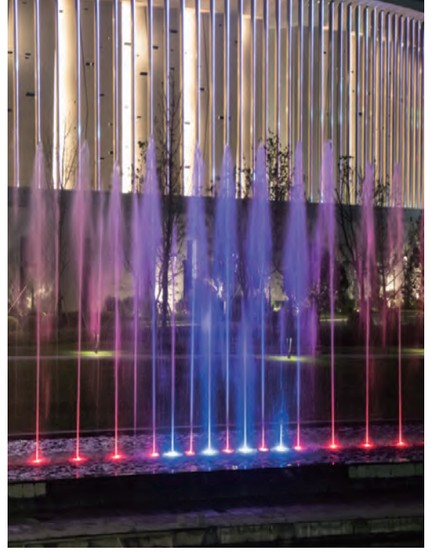
There are 18 Air Blast units (AB30) that are being built on both sides of the bridge, 9 units on each side.

The in between distance for each unit is 4.2 meters, with 20 meters max spraying height. Air Blast nozzles equips with 3 underwater spot lights with warm white (HX150T-36). In addition, 126 shooting units (waterswitch+comet nozzle+underwater ring lights) are also being installed on both sides of the bridge. Each side has 63 nos.

By using inverter to control the pump, the fountain can achieve the effect of producing continuing changes of different shooting heights.

The lights are controlled by NOVA's DMX/RDM system, which features the change of white light and full color range. RDM System can also change DMX address from distance, as a result, the operating equipments can be monitored in real time and the running message can be read by RDM simultaneously.













PROJECT SHOWCASE

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PAYA LEBAR QUARTER, SINGAPORE

The project is located at Paya Lebar Quarter Singapore, It has a rich and varied proposed public realm. The Water Feature is interactive Plaza Fountain.

The design of this fountain aims to create the pleasant visual effect of the combination of changing the height of the water and underwater LED lights, which can have different color.

There are 36 shooter jets which composed of a (ZL40-13) comet nozzle with a (VP80) controllable pump, a (HX182R-24QD) DMX/RDM LED ring light each. The spray height changes between 0~1.2m.















WaterSwitch

WS2520



The WaterSwitch is a special shifter which can produce dynamic spray variation by changing the direction of flow.

MATERIAL

- Body -- ABS
- Mount -- Stainless Steel 316

SPECIFICATIONS

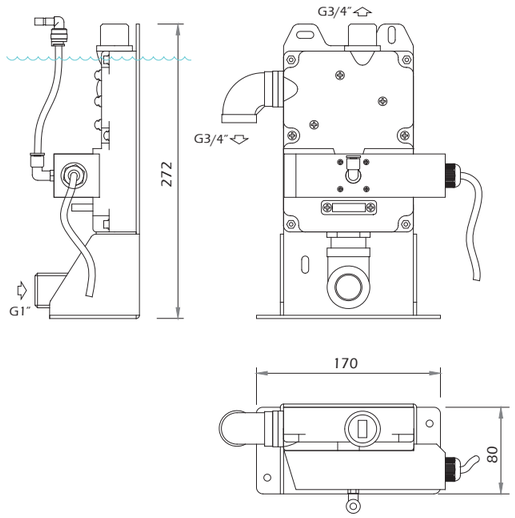
- One G1” inlet, two G 3/4” outlets
- 24V DC
- Switching speed 1/12 sec.
- Can be mounted on ground or suspended on horizontal or vertical bracket
- 1.5m cable SJTOW 18AWG
- Power consumption 10W
- Weight 2.9kg
- Protection Degree: IP68

APPLICATION

The WaterSwitch can be connected to various nozzles such as Comet, Foam, Fan, Finger nozzle.

DIMENSIONS

Unit: mm



PERFORMANCE

WaterSwitch+Finger Nozzle

Nozzle	FR25	
Ht.	P	Q
0.5	0.2	24
1.0	0.7	35
1.5	1.2	50
2.0	1.6	55
2.5	1.9	60
3.0	2.6	70



WaterSwitch+Comet Nozzle

Nozzle	ZL25-12		ZL40-13		ZL40-16	
Ht.	P	Q	P	Q	P	Q
1.0	0.5	25	0.5	33	1.0	44
1.5	0.6	34	0.8	40	1.5	52
2.0	0.8	37	1.1	47	2.0	60
3.0	1.2	47	1.7	60	3.0	78
4.0	1.8	58	2.2	70		
5.0	2.4	68	2.8	80		
6.0	3.0	75				



WaterSwitch+Foam Nozzle

Nozzle	PM15		PM20		PM25	
Ht.	P	Q	P	Q	P	Q
0.5	0.3	21	0.4	26	1.0	42
1.0	0.6	33	0.7	37	2.0	60
1.5	0.9	40	1.0	44	2.6	70
2.0	1.2	46	1.4	50		
2.5	1.4	52	1.7	55		
3.0	1.8	59	2.1	63		
3.5	2.2	65	3.0	78		
4.0	2.5	70				
5.0	3.0	78				



- Ht. = Spray height (m)
- P = Pressure demand (bar)
- Q = Flow rate (lpm)

WaterSwitch

WS4040



The WaterSwitch is a special shifter which can produce dynamic spray variation by changing the direction of flow.

MATERIAL

- Body -- ABS
- Mount -- Stainless Steel 316

SPECIFICATIONS

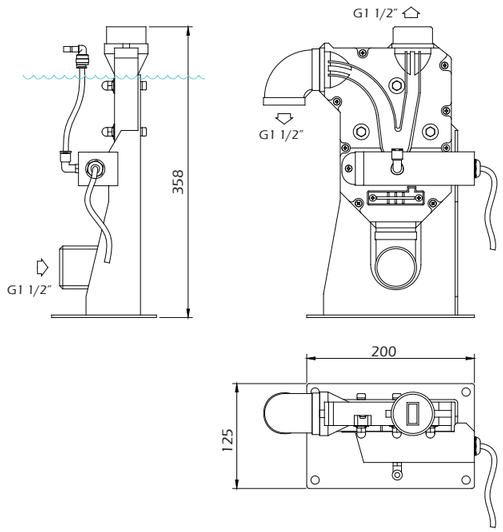
- One G1 1/2” inlet, two G1 1/2” outlets
- 24V DC
- Switching speed 1/12 sec.
- Can be mounted on ground
- 1.5m cable SJTOW 18AWG
- Power consumption 10W
- Weight 3.8kg
- Protection Degree: IP68

APPLICATION

The WaterSwitch can be connected to various nozzles such as Comet, Foam, Fan, Finger, Annular nozzle.

DIMENSIONS

Unit: mm



PERFORMANCE

WaterSwitch+Annular Nozzle

Nozzle	RA25		RA40	
Ht.	P	Q	P	Q
1.0				
2.0			0.8	80
3.0	1.0	90	1.1	95
4.0	1.3	107	1.4	112
5.0	2.2	150		



WaterSwitch+Comet Nozzle

Nozzle	ZL40-13		ZL40-16	
Ht.	P	Q	P	Q
4.0	1.0	90	1.25	100
4.5	1.1	97	1.5	115
5.0	1.5	117	1.6	123
6.0	1.7	125	1.85	130
7.0	1.9	135	2.15	150
8.0	2.3	155	3.4	190
9.0	3.4	190	4.2	220



WaterSwitch+Foam Nozzle

Nozzle	PM20		PM25		PM40	
Ht.	P	Q	P	Q	P	Q
0.5					0.8	82
0.75			0.8	80	1.4	108
1.0			1.1	92	1.65	120
1.5			1.3	100	2	140
2.0			1.5	110	2.4	160
2.5	1.0	90	1.7	125	3.4	190
3.0	1.1	100	1.9	140		
3.5	1.2	106	2.3	154		
4.0	1.4	111	2.7	162		



- Ht. = Spray height (m)
- P = Pressure demand (bar)
- Q = Flow rate (lpm)

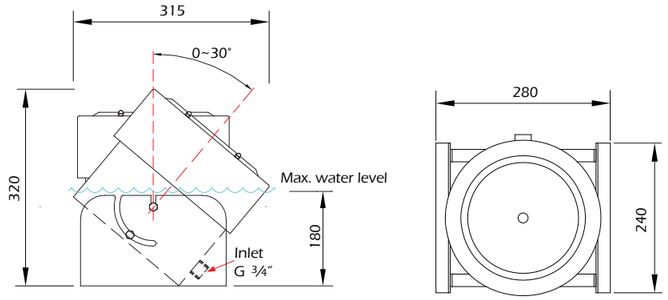
Jumping Jet

J20-12



DIMENSIONS

Unit: mm





CHARACTERISTICS

- Effect: laminar water
- Function: cut off
- Orifice: 12mm
- Vertical pivoting range: 0 ~ 30 °
- Max. pressure: 0.5bar
- Max. flow rate: 50l/min
- Max. water depth: 180mm
- Rated voltage of LED light: 24V DC
- Rated power of LED light: 6W
- Light type: LED RGB / RGBW / white light
- Power cable for LED light: VDE H05RN-F 2×1.0+3×0.5mm²
- Protection Degree of LED light: IP68
- Rated voltage of stepper motor: 24V DC
- Current of stepper motor: 2.1A
- Power cable for stepper motor: 3m STW 18AWG
- Material: stainless steel 304
- Weight: 20kg

POSSIBLE WATER PARABOLA



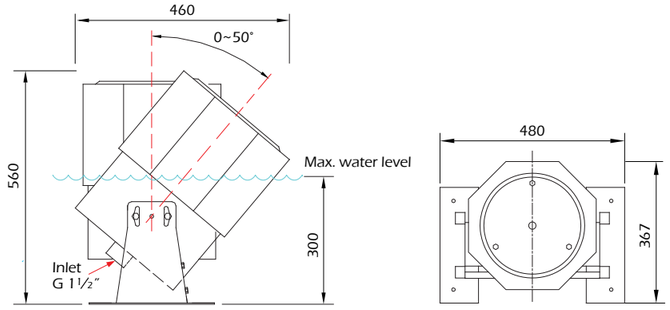
Jumping Jet

J40-16



DIMENSIONS

Unit: mm

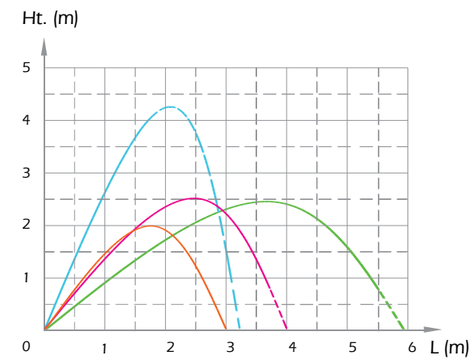




CHARACTERISTICS

- Effect: laminar water
- Function: cut off
- Orifice: 16mm
- Vertical pivoting range: 0 ~ 50 °
- Max. pressure: 0.7bar
- Max. flow rate: 84l/min
- Max. water depth: 300mm
- Rated voltage of stepper motor: 24V DC
- Current of stepper motor: 2.4A
- Rated voltage of LED light: 24V DC
- Rated power of LED light: 6W
- Light type: LED RGB / RGBW / white light
- Power cable for LED light: VDE H05RN-F 2×1.0+3×0.5mm²
- Protection Degree of LED light: IP68
- Power cable for stepper motor: 3m STW 18AWG
- Material: stainless steel 304
- Weight: 38kg

POSSIBLE WATER PARABOLA



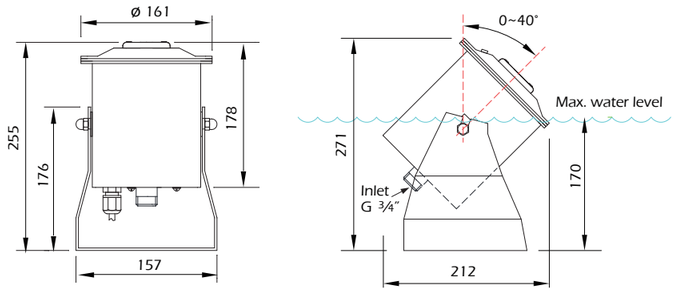
Laminar Jet

L20-8



DIMENSIONS

Unit: mm

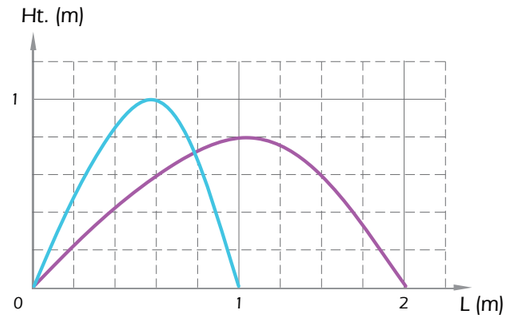




CHARACTERISTICS

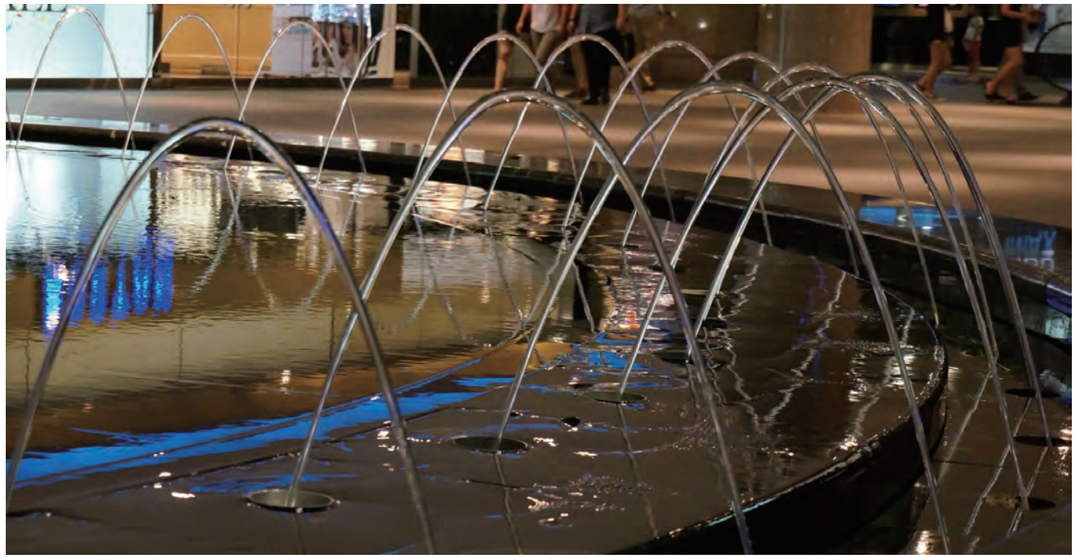
- Effect: laminar water
- Orifice: 8mm
- Vertical pivoting range: 0 ~40 °
- Max. pressure: 0.3bar
- Max. flow rate: 25l/min
- Max. water depth: 170mm
- Rated voltage of LED light: 24V DC
- Rated power of LED light: 3W
- Light type: LED RGB / RGBW / white light
- Power cable for LED light: 3m STW 18AWG
- Protection Degree of LED light: IP68
- Material: stainless steel 304
- Weight: 6.8kg

POSSIBLE WATER PARABOLA



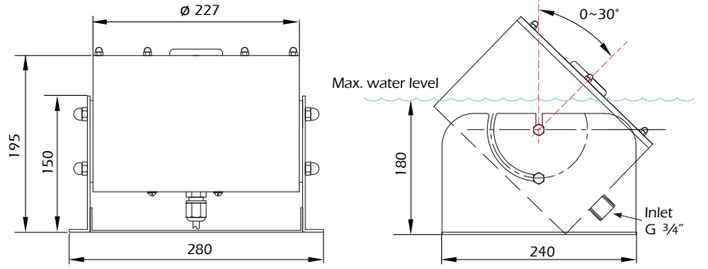
Laminar Jet

L20-12



DIMENSIONS

Unit: mm

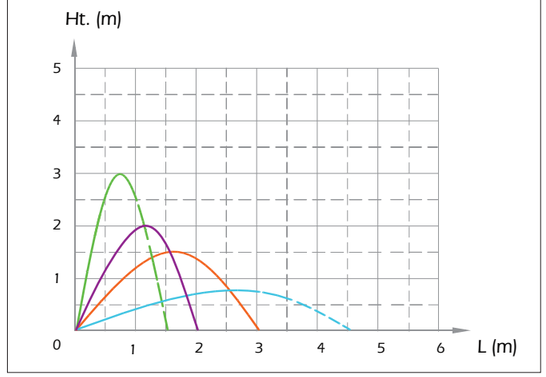




CHARACTERISTICS

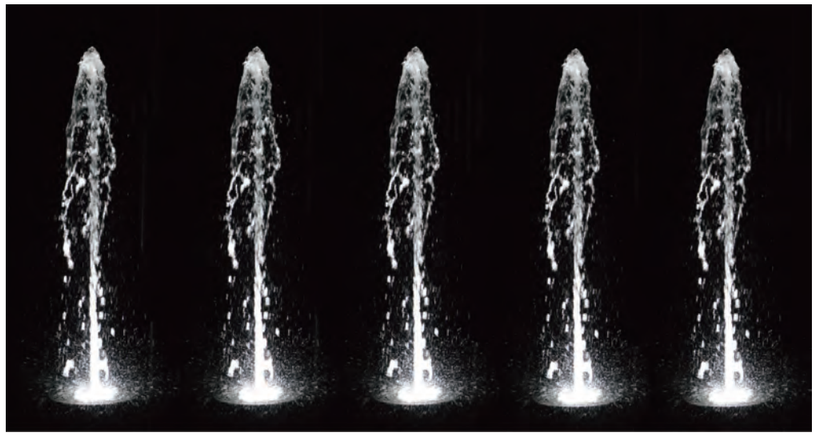
- Effect: laminar water
- Orifice: 12mm
- Vertical pivoting range: 0 ~ 30°
- Max. pressure: 0.5bar
- Max. flow rate: 50l/min
- Max. water depth: 180mm
- Rated voltage of LED light: 24V DC
- Rated power of LED light: 3W
- Light type: LED RGB / RGBW / white light
- Power cable for LED light: 3m STW 18AWG
- Protection Degree of LED light: IP68
- Material: stainless steel 304
- Weight: 17kg

POSSIBLE WATER PARABOLA



WaterSwitch In The Can

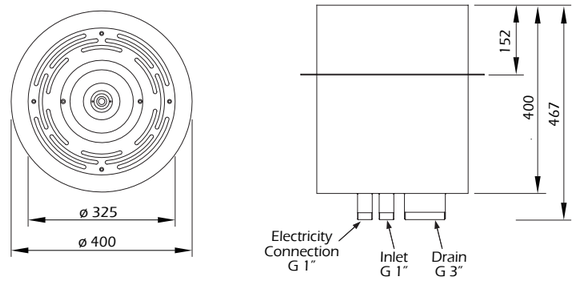
WSIC2520



The WSIC2520 is an exciting interactive unit. Flush-mounted nozzle means no tripping hazards on WSIC2520 for interactive play.
LED RGB units produce dramatic evening light shows.

DIMENSIONS

Unit: mm





PERFORMANCE

Type	WSIC2520	
Ht.	P	Q
1.0m	1.0	35
1.5m	1.5	50
2.0m	2.0	58
2.5m	2.6	65

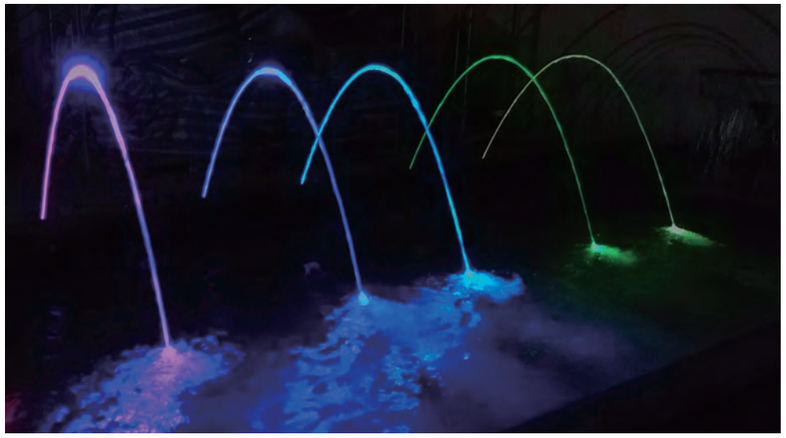
- Ht.= Spray height (m)
- P= Pressure demand (bar)
- Q= Flow rate (lpm)

CHARACTERISTICS

- Nozzle: Column Nozzle
- Rated voltage of WaterSwitch: 24V DC
- Power consumption of WaterSwitch: 10W
- Power cable for WaterSwitch: 3m SJTOW 18AWG
- Rated voltage of LED light: 24V DC
- Rated power of LED light: 36W
- Light type: LED RGB / RGBW / white light
- Options of LED light:
  HX182R-24 / HX182R-36T / HX182R-24QD
- Power cable for LED light: 3m STW 18AWG
- Protection Degree of LED light: IP68
- Material: stainless steel 316 / ABS / stainless steel 304
- Weight: 19kg

Jumping Jet In The Can

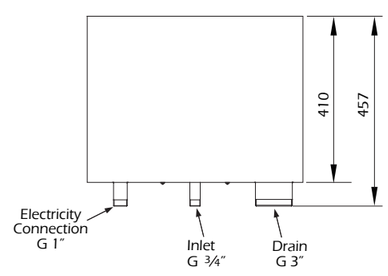
JJIC20-12



The JJIC20-12 is an exciting interactive unit. The perdue Jumping Jet means no tripping hazards on JJIC20-12 for interactive play.
LED RGB units produce dramatic evening light shows.

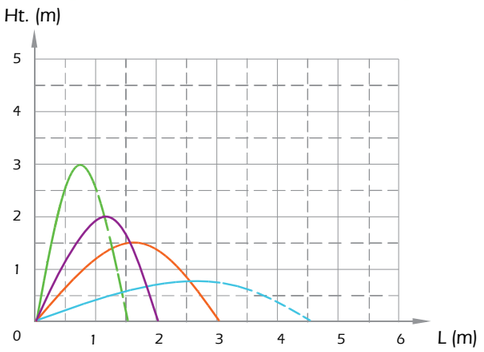
DIMENSIONS

Unit: mm





POSSIBLE WATER PARABOLA



CHARACTERISTICS

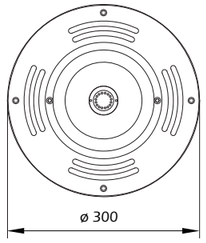
- Effect: laminar water
- Function: cut off
- Max. flow rate: 50l/min
- Max. pressure: 1.2bar
- Rated voltage of LED light: 24V DC
- Rated power of LED light: 6W
- Light type: LED RGB / RGBW / white light
- Power cable for LED light: VDE H05RN-F
  2×1.0+3×0.5mm²
- Protection Degree of LED light: IP68
- Rated voltage of stepper motor: 24V DC
- Current of stepper motor: 2.1A
- Power cable for stepper motor: 3m STW 18AWG
- Material: stainless steel 304
- Weight: 49kg

Deck Jet

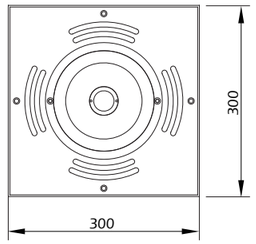
DJ25C/DJ25S

DIMENSIONS

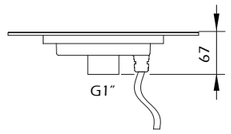
Unit: mm



DJ25C



DJ25S

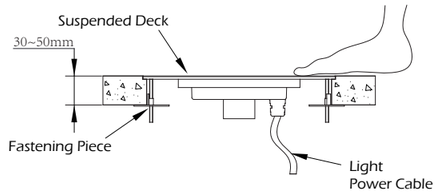




DJ25C



DJ25S



The DJ25C/ DJ25S is an illuminated ground jet.
LED Light units produce dramatic evening light shows.

SPECIFICATION

Flush-mounted nozzle means no tripping hazards on DJ25C/ DJ25S for play.

CHARACTERISTICS

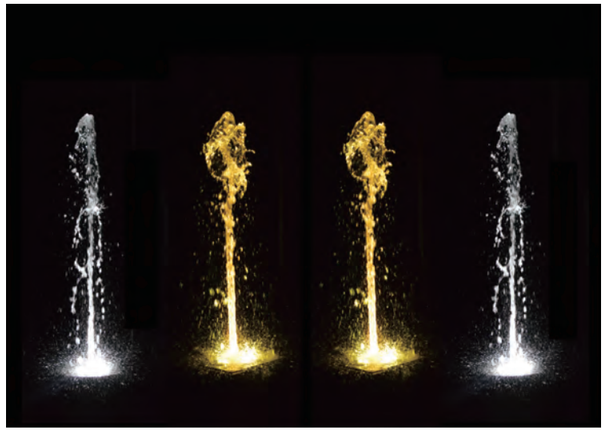
- Deck: circular / square
- Options of nozzle: Column nozzle/Angle ring nozzle
- Rated voltage of LED light: 24V DC
- Rated power of LED light: 24W / 36W
- Light type: LED RGB / RGBW / white light
- Options of LED light:
  HX182R-24 / HX182R-36T / HX182R-24QD
- Material: stainless steel 304

LED light type	Light source	Rated voltage	Power consumption	Control Mode
HX182R-24	12×2W White	24VDC	28.8W	/
HX182R-36T	12×2W RGB 3in1	24VDC	33.6W	/
HX182R-24QD	6×4W RGBW 4in1	24VDC	25.9W	DMX512 & RDM

PERFORMANCE

Deck Jet (Column nozzle)

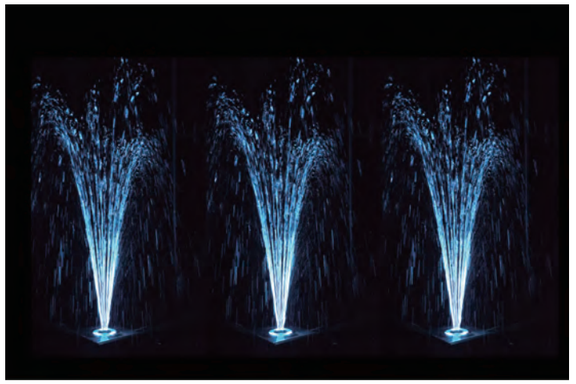
Type	DJ25C/DJ25S	
Ht.	P	Q
m	bar	lpm
1.0	0.15	25
1.5	0.25	30
2.0	0.30	35
2.5	0.35	40
3.0	0.50	45
3.5	0.55	60
4.0	0.70	65



PERFORMANCE

Deck Jet (Angle ring nozzle)

Type	DJ25C/DJ25S	
Ht.	P	Q
m	bar	lpm
1.0	0.10	20
1.5	0.17	25
2.0	0.25	30
2.5	0.35	35
3.0	0.45	40
3.5	0.55	45



- Ht. = Spray height (m)
- P = Pressure demand (bar)
- Q = Flow rate (lpm)

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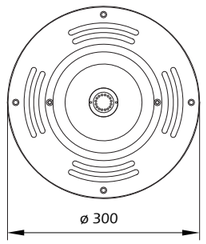
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Deck Jet with WaterSwitch

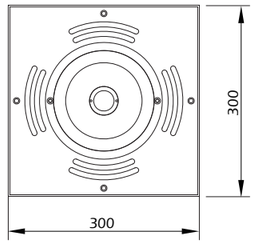
DJWS2520C/DJWS2520S

DIMENSIONS

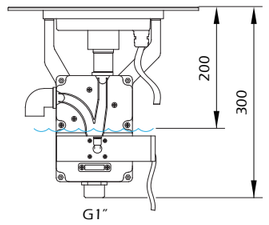
Unit: mm



DJWS2520C



DJWS2520S

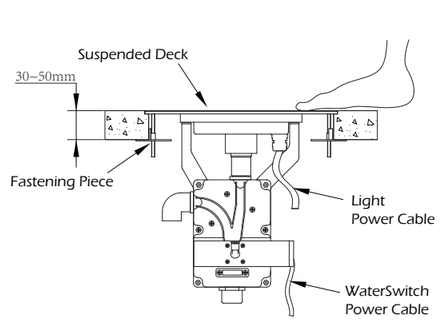




DJWS2520C



DJWS2520S



The DJWS2520C/ DJWS2520S is an exciting interactive unit that is also safe for interactive play.
LED Light units produce dramatic evening light shows.
Flush-mounted nozzle means no tripping hazards on DJWS2520C/ DJWS2520S for interactive play.

CHARACTERISTICS

- Deck: circular / square
- Options of nozzle: Column nozzle/Angle ring nozzle
- Rated voltage of WaterSwitch: 24V DC
- Power consumption of WaterSwitch: 10W
- Rated voltage of LED light: 24V DC
- Rated power of LED light: 24W / 36W
- Light type: LED RGB / RGBW / white light
- Options of LED light:
  HX182R-24 / HX182R-36T / HX182R-24QD
- Power cable for LED light: 3m STW 18AWG
- Material: stainless steel 304 / ABS
- Protection Degree: IP68

LED light type	Light source	Rated voltage	Power consumption	Control Mode
HX182R-24	12×2W White	24VDC	28.8W	/
HX182R-36T	12×2W RGB 3in1	24VDC	33.6W	/
HX182R-24QD	6×4W RGBW 4in1	24VDC	25.9W	DMX512 & RDM

PERFORMANCE

Deck Jet with WaterSwitch (Column Nozzle)

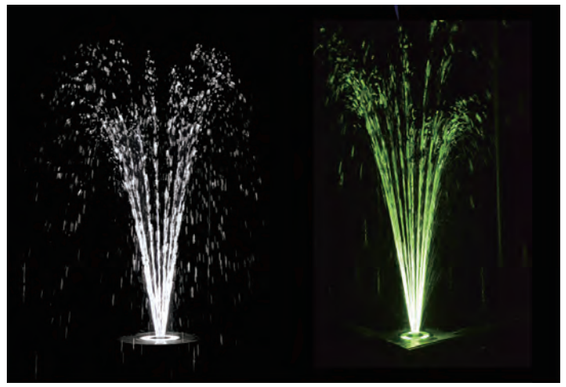
Type	DJWS2520C/DJWS2520S	
Ht.	P	Q
m	bar	lpm
1.0	0.60	33
1.5	0.85	40
2.0	1.10	46
2.5	1.35	50
3.0	1.45	56
3.5	1.85	61
4.0	2.30	69
4.5	2.50	72
5.0	2.65	75



PERFORMANCE

Deck Jet with WaterSwitch (Angle ring Nozzle)

Type	DJWS2520C/DJWS2520S	
Ht.	P	Q
m	bar	lpm
0.5	0.40	25
1.0	0.70	37
1.5	1.20	50
2.0	1.40	55
2.5	1.60	63
3.0	2.50	80



- **Ht.= Spray height (m)**
- **P= Pressure demand (bar)**
- **Q= Flow rate (lpm)**

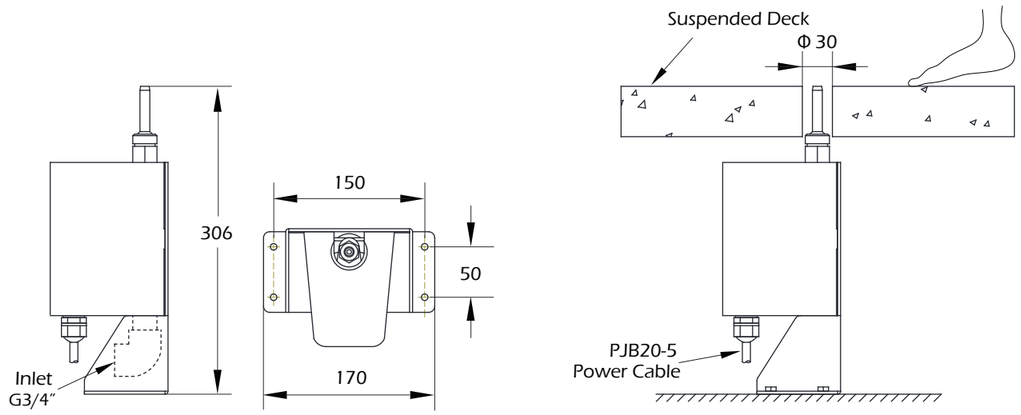
Pop Jet

PJB20-5

Pop jet can produces a lively mesmerizing effect with low LPM requirements.
Available in floor mounted versions.

DIMENSIONS

Unit: mm



CHARACTERISTICS

- Rated voltage: 24VDC.
- Power consumption: 20W.
- Power cable: 3m STW 18AWG
- Protection Degree: IP68.



MATERIAL

- Nozzle -- Brass plated chrome
- Mount -- Stainless Steel 304

PERFORMANCE

Type	Orifice Diameter (mm)	Spray Height (m)	Pressure demand (bar)	Flow rate (lpm)
PJB20-5	5	0.3	0.3	6
		0.6	0.5	7
		0.9	0.7	8

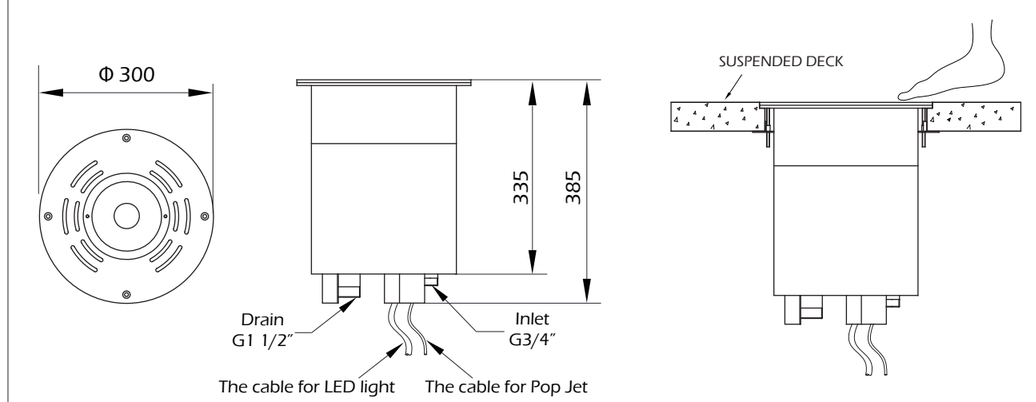
Pop Jet In The Can

PJIC20-5

The new pop jet unit can be installed underwater or on dry deck.
Water balls popping out of nowhere, produces a lively mesmerizing effect, which becomes focus of attention.
In the night, water balls and lighting are synced to a cheerful rhythm.

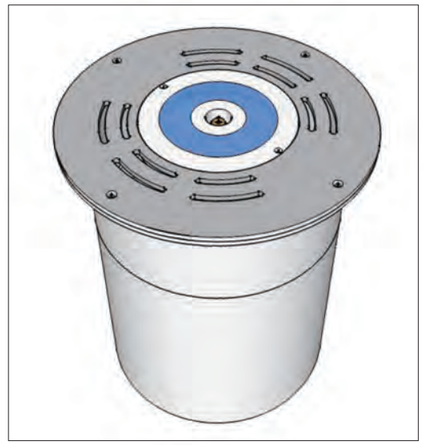
DIMENSIONS

Unit: mm



CHARACTERISTICS

- Rated voltage of pop jet: 24V DC
- Power consumption of pop jet: 20W
- Power cable of pop jet: 3m STW 18AWG
- Rated voltage of LED light: 24V DC
- Rated power of LED light: 12W / 18W
- Light type: LED RGB / RGBW / white light
- Options of LED light:
  HX149R-18 / HX149R-18T / HX149R-12QD
- Power cable of LED light: 3m STW 18AWG
- Material:Brass plated chrome, stainless steel 304
- Protection Degree: IP68



PERFORMANCE

Type	Orifice Diameter (mm)	Spray Height (m)	Pressure demand (bar)	Flow rate (lpm)
PJIC20-5	5	0.3	0.3	6
		0.6	0.5	7
		0.9	0.7	8

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LED Foam Effect Nozzle

FL35-40



LED Cluster Nozzle (FL35-40) Adhering to the design concept of "see the light, not see the light", the LED underwater light and the nozzle are combined with each other.

It reverses the original practice of using a large-diameter ring light in dry spraying, and reduces the diameter of the slate opening on site to 55mm.

The use of different types of acrylic nozzles to achieve different water discharge effect, thus meeting different design needs.

Built-in RGBW 4in1 LED underwater light containing built-in decoder.

Can be directly controlled by DMX512 signals, rather than requiring additional external light decoder to control like traditional light, thus reducing the amount of space occupied in the control cabinet, and at the same time play a role in reducing the cost of equipment and pre-built cables.

Equipment Specifications

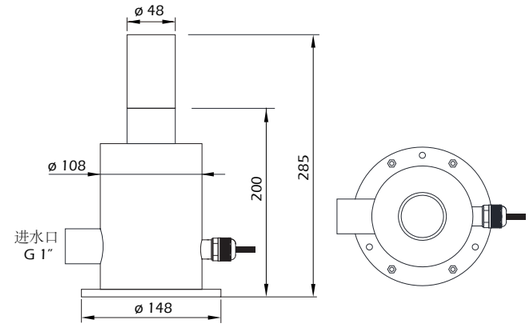
- Dimensions (L×W×H):
  195mm×148mm×285mm
- Material:
  Stainless steel 304 housing,
  Acrylic nozzle
- weight: 3.6kg

Built-in LED Light Specifications

- Built-in decoder
- Light source: RGB/RGBW
- Lens: 10°
- Rated voltage: 24V DC
- Rated current: 250(mA)
- Rated power: 6(W)
- luminance: 270(lm)

DIMENSIONS

Unit: mm

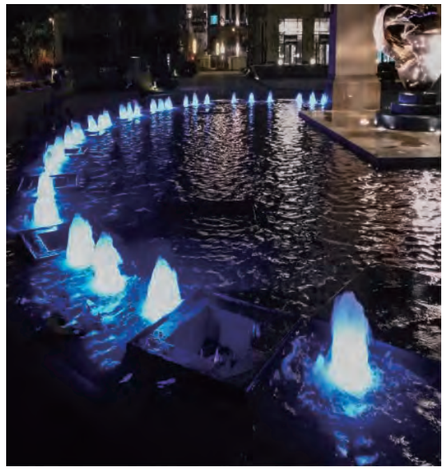




PERFORMANCE

	FL35-40(Comet Nozzle) Clear column effect for dry spraying			FL35-40(Multi-hole ring Nozzle) For bubble effect in pools	
Ht.	P	Q	Ht.	P	Q
0.50	0.06	42	0.15	0.15	40
0.75	0.09	52	0.25	0.21	50
1.00	0.11	62	0.35	0.29	58
1.25	0.14	69	0.50	0.37	65
1.50	0.17	76	0.60	0.46	72
1.75	0.19	82			
2.00	0.22	89			

- Ht. = Spray height (m)
- P = Pressure demand (bar)
- Q = Flow rate (lpm)





COMPLETE FOUNTAIN UNIT SERIES

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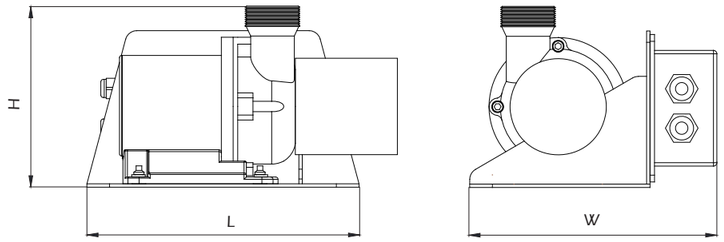
Controllable Pumps

VP-80/VP-150/VP-200

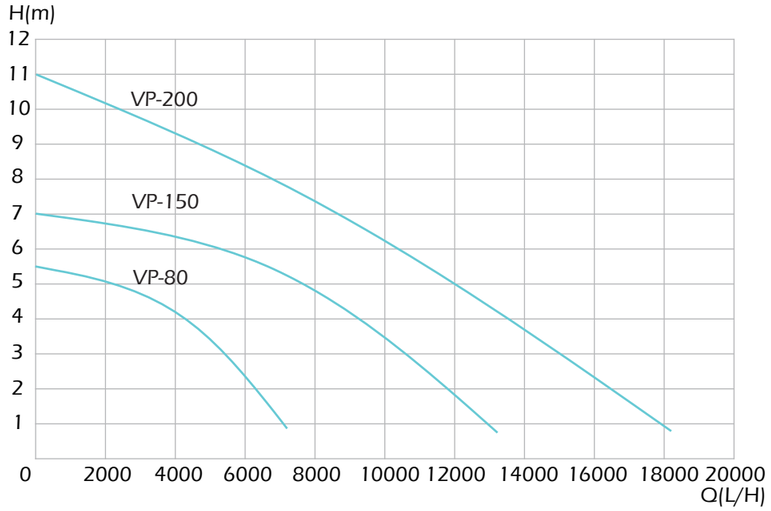
DIMENSIONS

Unit: mm

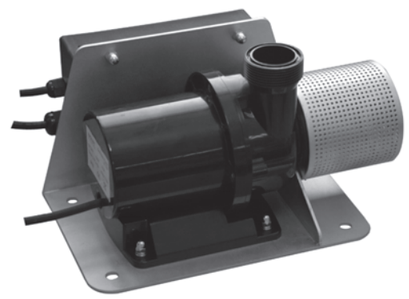
Type	L	W	H
VP-80	173	240	136
VP-150	218	240	160
VP-200	218	240	160



PERFORMANCE







CHARACTERISTICS

- Quiet and high efficient
  BLDC motor drived water pump,high efficient design of volute and impeller.
- Dry running protection
  If pump is running without water,it will stop automatically to prevent failure from wear.
- Over heat protection
  Pump will stop running if the motor temperature is high.
- Over current protection
  To prevent motor failure from shortening.
- DMX signal to control pump speed
  Input DMX signal to control pump stop or start and adjust speed.
- Stand-by model of lowest speed
  Pump is run at lowest speed.
- IP68,submersible or dry installation
  Install submersed or dry to make dry or inner water fountain.
- FOC driver,exactly stable speed control
- 0.6 second speed ramp from stand-by mold to max speed
  Fastest seep reaction to ensure better fountain cense.

Type	VP-80	VP-150	VP-200
Motor type	BLDC	BLDC	BLDC
Control signal	DMX	DMX	DMX
Q max	7000L/H	13000L/H	18000L/H
H max	5m	7m	11m
Speed from 0%~100%	0.6s	0.6s	0.6s
Working Voltage	24V DC	24V DC	24V DC
Max Power input	80W	150W	200W
Protection class	IP68	IP68	IP68
Weight	5kg	6kg	8kg
Suction side connection	G1 1/2"	G2"	G2"
Output side connection	G1 1/4"	G1 1/2"	G1 1/2"
Pump housing	Plastic	Plastic	Plastic
Ambient temperature	less than 40℃	less than 40℃	less than 40℃
Cable for DMX input	1.5m RVV 3x0.5	1.5m RVV 3x0.5	1.5m RVV 3x0.5
Cable for DMX output	1.5m RVV 3x0.5	1.5m RVV 3x0.5	1.5m RVV 3x0.5
Cable for pump	3m H05RN-F 3x0.5	3m H05RN-F 3x0.5	3m H05RN-F 3x0.5
Cable for power input	1.5m H05RN-F 2x0.5	1.5m H05RN-F 2x0.5	1.5m H05RN-F 2x0.5

Controllable Pumps

VP05 Series

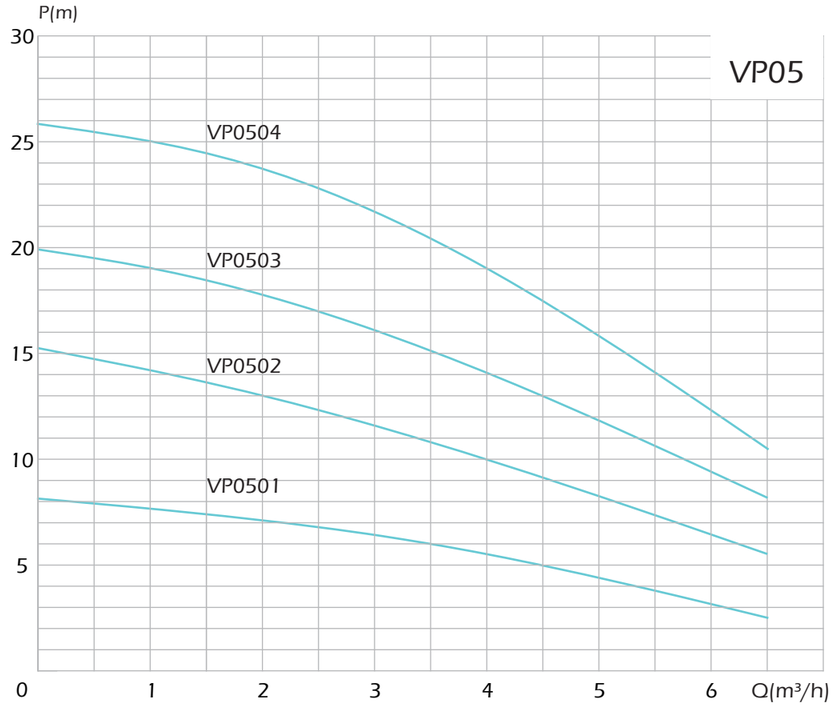


CHARACTERISTICS

- Must be used underwater
- Over heat protection
  Pump will stop running if the motor temperature is high.
- Over current protection
  To prevent motor failure from shortening.
- Controllable pump casing, impeller and other components are made of stainless steel 304, corrosion resistance, suitable for freshwater, swimming pool water and other water environments.
- 24V DC brushless motor adopts the form of synchronous motor with permanent magnet rotor, the rotating speed is strictly according to the rotating speed of the stator magnetic field, the fountain effect is more stable and delicate.
- DMX512 protocol communication speed regulation, in the fountain project application, can be directly connected with the fountain or lighting control system, without the need of equip frequency converter and cumbersome communication conversion program. Compared to the traditional analog quantity control it will behigher precision and less interference.



PERFORMANCE



Type	VP0501	VP0502	VP0503	VP0504
Control signal	DMX			
Input Voltage	24V DC			
Working current(A)	11	19	27	30
Rated Power(W)	250	400	600	600
Total length(mm)	450	471	492	513
Total weight(kg)	7.2	7.4	7.7	7.9
Diameter of pump(mm)	Φ98			
Diameter of motor(mm)	Φ96			
Rotate speed(r/min)	3000			
Outlet (internal thread)	DN40			
Protection class	IP68			
Application environment	temperature of water between -20℃~40℃, Submerged depth of more than 20cm			
Power cable	2-core waterproof cable			
DMX Signal Cable	Shielded Twisted Pair cable			
Material	Stainless steel 304			

COMPLETE FOUNTAIN UNIT SERIES

Controllable Pumps

VP08 Series

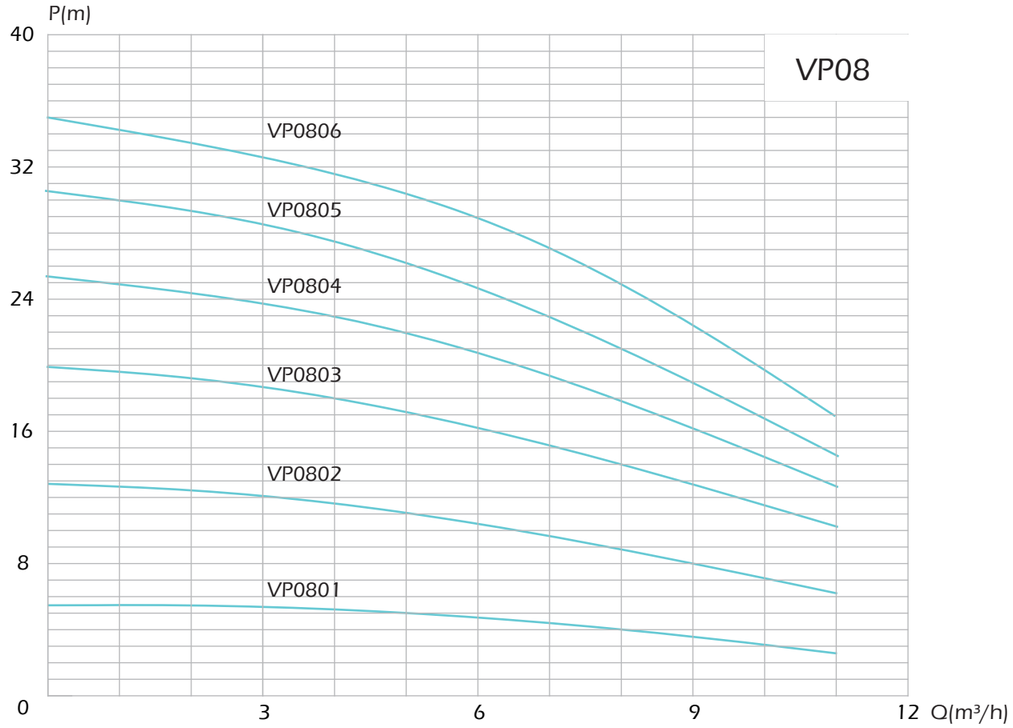


CHARACTERISTICS

- Must be used underwater
- Over heat protection
  Pump will stop running if the motor temperature is high.
- Over current protection
  To prevent motor failure from shortening.
- Controllable pump casing, impeller and other components are made of stainless steel 304, corrosion resistance, suitable for freshwater, swimming pool water and other water environments.
- 24V DC brushless motor adopts the form of synchronous motor with permanent magnet rotor, the rotating speed is strictly according to the rotating speed of the stator magnetic field, the fountain effect is more stable and delicate.
- DMX512 protocol communication speed regulation, in the fountain project application, can be directly connected with the fountain or lighting control system, without the need of equip frequency converter and cumbersome communication conversion program. Compared to the traditional analog quantity control it will behigher precision and less interference.



PERFORMANCE



Type	VP0801	VP0802	VP0803	VP0804	VP0805	VP0806
Control signal	DMX					
Input Voltage	24V DC					
Working current(A)	17	25	30	37	45	51
Rated Power(W)	400	600	900	1200	1400	1600
Total length(mm)	495	537	579	621	663	705
Total weight(kg)	7.8	8.3	8.7	9.2	9.8	10.8
Diameter of pump(mm)	Φ98					
Diameter of motor(mm)	Φ96					
Rotate speed(r/min)	3000					
Outlet (internal thread)	DN50					
Protection class	IP68					
Application environment	temperature of water between -20℃~40℃, Submerged depth of more than 20cm					
Power cable	2-core waterproof cable					
DMX Signal Cable	Shielded Twisted Pair cable					
Material	Stainless steel 304					

COMPLETE FOUNTAIN UNIT SERIES

Controllable Pumps

VP14 Series

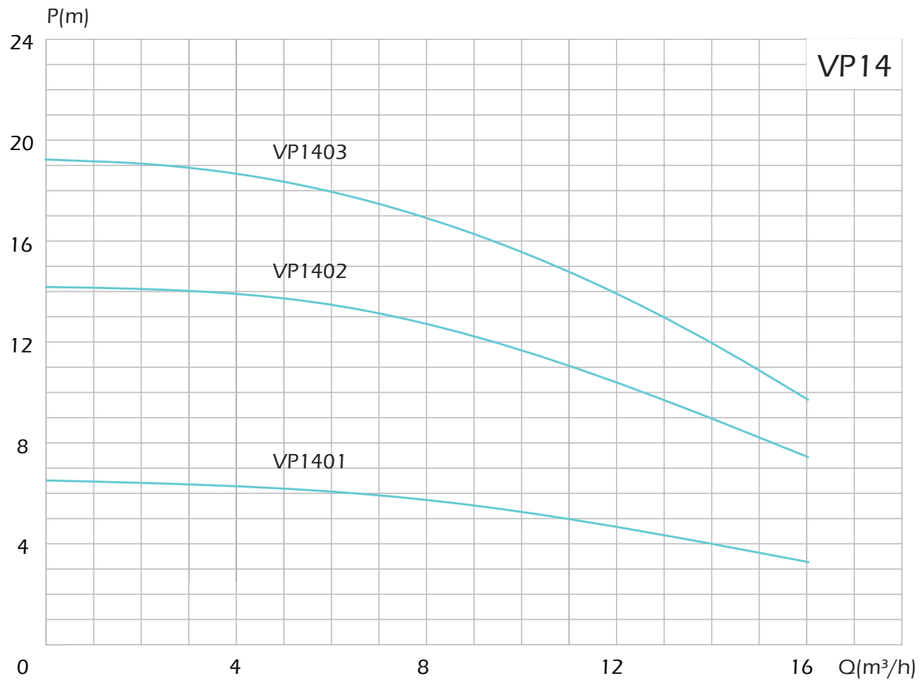


CHARACTERISTICS

- Must be used underwater
- Over heat protection
  Pump will stop running if the motor temperature is high.
- Over current protection
  To prevent motor failure from shortening.
- Controllable pump casing, impeller and other components are made of stainless steel 304, corrosion resistance, suitable for freshwater, swimming pool water and other water environments.
- 24V DC brushless motor adopts the form of synchronous motor with permanent magnet rotor, the rotating speed is strictly according to the rotating speed of the stator magnetic field, the fountain effect is more stable and delicate.
- DMX512 protocol communication speed regulation, in the fountain project application, can be directly connected with the fountain or lighting control system, without the need of equip frequency converter and cumbersome communication conversion program. Compared to the traditional analog quantity control it will behigher precision and less interference.



PERFORMANCE



Type	VP1401	VP1402	VP1403
Control signal	DMX		
Input Voltage	24V DC		
Working current(A)	30	42	55
Rated Power(W)	600	1200	1600
Total length(mm)	529	594	659
Total weight(kg)	8.3	8.9	9.8
Diameter of pump(mm)	Φ98		
Diameter of motor(mm)	Φ96		
Rotate speed(r/min)	3000		
Outlet (internal thread)	DN50		
Protection class	IP68		
Application environment	temperature of water between -20℃~40℃, Submerged depth of more than 20cm		
Power cable	2-core waterproof cable		
DMX Signal Cable	Shielded Twisted Pair cable		
Material	Stainless steel 304		

COMPLETE FOUNTAIN UNIT SERIES

Controllable Pumps

VP17 Series

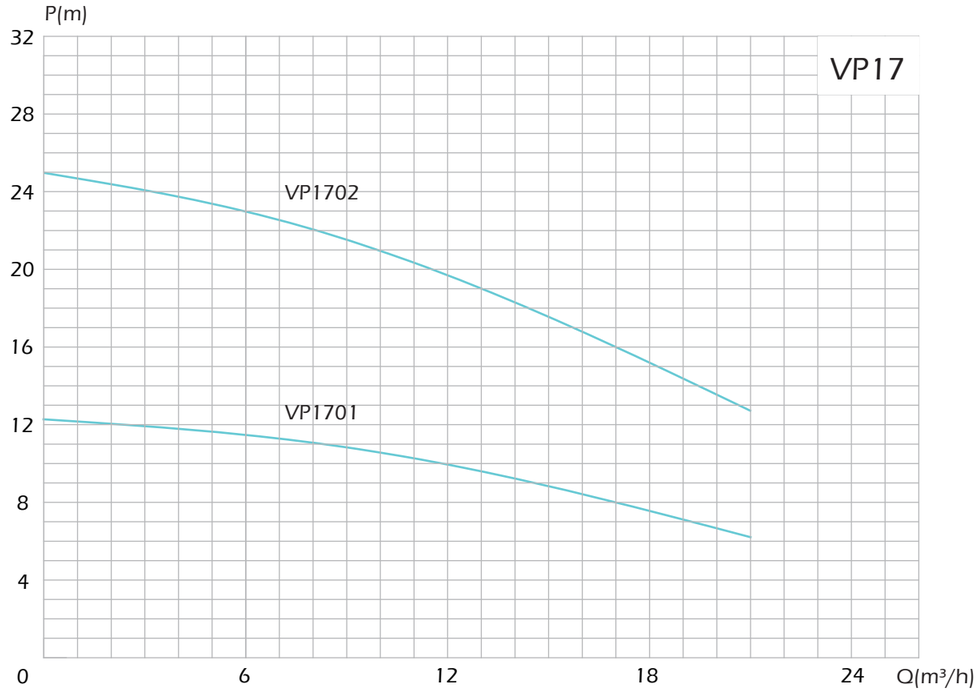


CHARACTERISTICS

- Must be used underwater
- Over heat protection
  Pump will stop running if the motor temperature is high.
- Over current protection
  To prevent motor failure from shortening.
- Controllable pump casing, impeller and other components are made of stainless steel 304, corrosion resistance, suitable for freshwater, swimming pool water and other water environments.
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- DMX512 protocol communication speed regulation, in the fountain project application, can be directly connected with the fountain or lighting control system, without the need of equip frequency converter and cumbersome communication conversion program. Compared to the traditional analog quantity control it will behigher precision and less interference.



PERFORMANCE



Type	VP1701	VP1702
Control signal	DMX	
Input Voltage	24V DC	
Working current(A)	36	57
Rated Power(W)	1200	1600
Total length(mm)	597	657
Total weight(kg)	10.5	11.6
Diameter of pump(mm)	Φ131	
Diameter of motor(mm)	Φ96	
Rotate speed(r/min)	3000	
Outlet (internal thread)	DN65	
Protection class	IP68	
Application environment	temperature of water between -20℃~40℃, Submerged depth of more than 20cm	
Power cable	2-core waterproof cable	
DMX Signal Cable	Shielded Twisted Pair cable	
Material	Stainless steel 304	

Controllable Pumps

VP30 Series

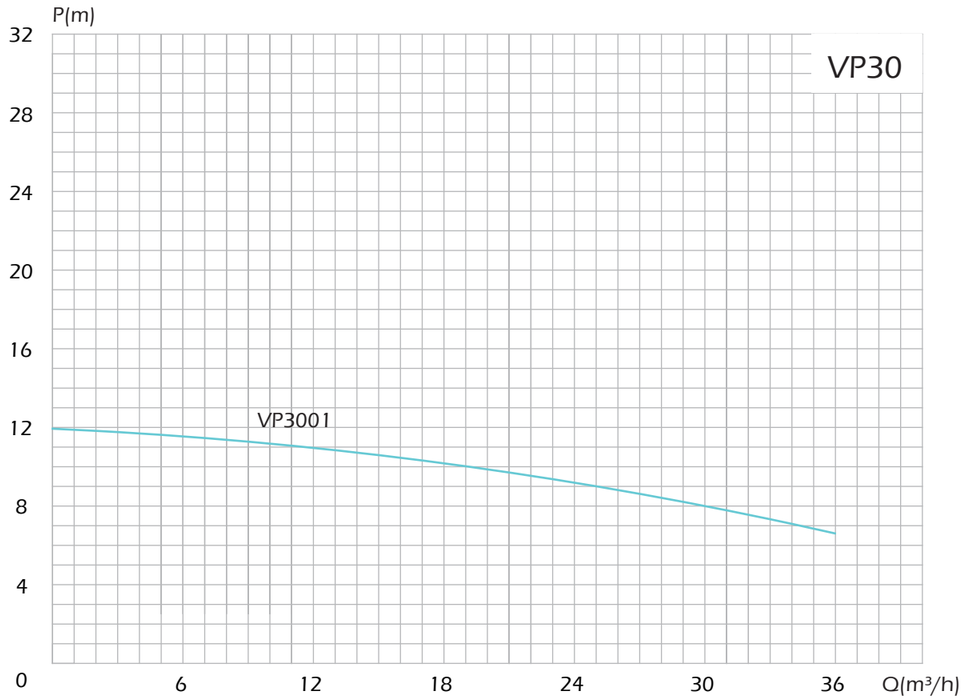


CHARACTERISTICS

- Must be used underwater
- Over heat protection
  Pump will stop running if the motor temperature is high.
- Over current protection
  To prevent motor failure from shortening.
- Controllable pump casing, impeller and other components are made of stainless steel 304, corrosion resistance, suitable for freshwater, swimming pool water and other water environments.
- 24V DC brushless motor adopts the form of synchronous motor with permanent magnet rotor, the rotating speed is strictly according to the rotating speed of the stator magnetic field, the fountain effect is more stable and delicate.
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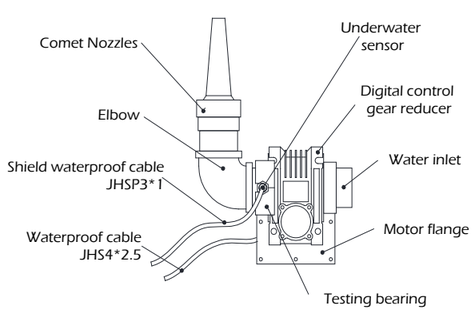
PERFORMANCE



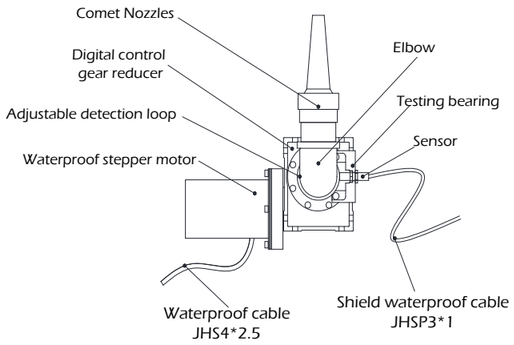
Type	VP3001
Control signal	DMX
Input Voltage	24V DC
Working current(A)	67
Rated Power(W)	1600
Total length(mm)	632
Total weight(kg)	12.1
Diameter of pump(mm)	Φ131
Diameter of motor(mm)	Φ96
Rotate speed(r/min)	3000
Outlet (internal thread)	DN65
Protection class	IP68
Application environment	temperature of water between -20℃~40℃, Submerged depth of more than 20cm
Power cable	2-core waterproof cable
DMX Signal Cable	Shielded Twisted Pair cable
Material	Stainless steel 304

One-dimension Swivel Jet

HXL1-50S



FRONT VIEW

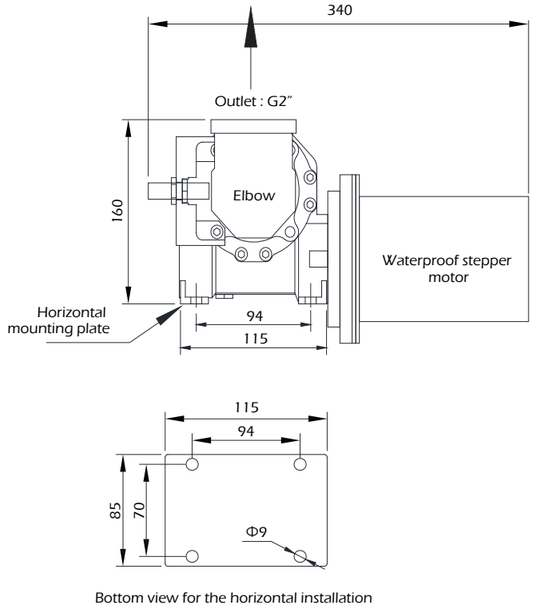


LEFT VIEW

Order NO.	HXL1-50S
Material	Stainless steel 304
Worm gear ratio	1:10
Max transmission distance via cable	500m
Stepper motor voltage	80V AC
Stepper motor power	300W
Max torque of stepper motor	6 n.m
Sensor Input voltage	24V DC
Max spray high	18m
Max speed	75rpm
180° round trip (times/minute)	42
90° round trip (times/minute)	70
45° round trip (times/minute)	135
5° round trip (times/minute)	1200
Weight	12 kg
Power cable	1 m

DIMENSIONS

Unit: mm



Bottom view for the horizontal installation



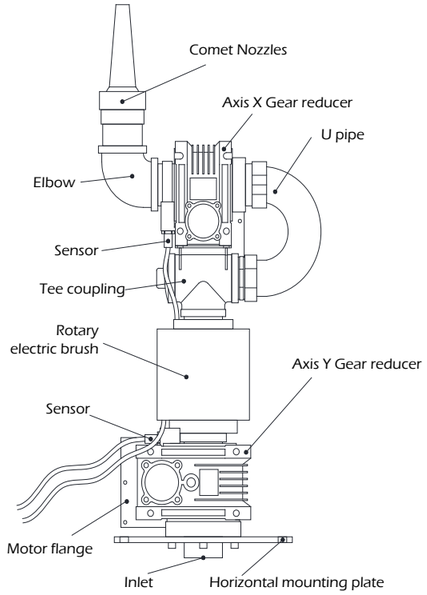


COMPLETE FOUNTAIN UNIT SERIES

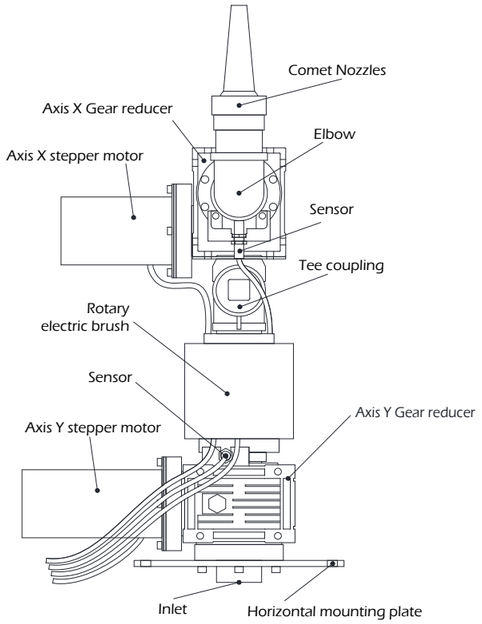
www.novafountain.com.sg

Two-dimension Swivel Jet

HXL2-50S



FRONT VIEW

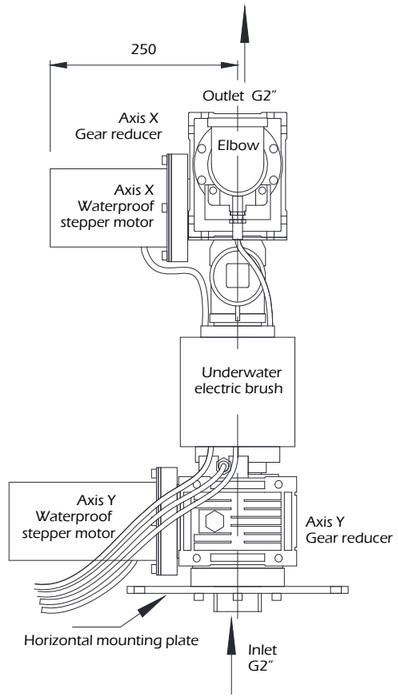


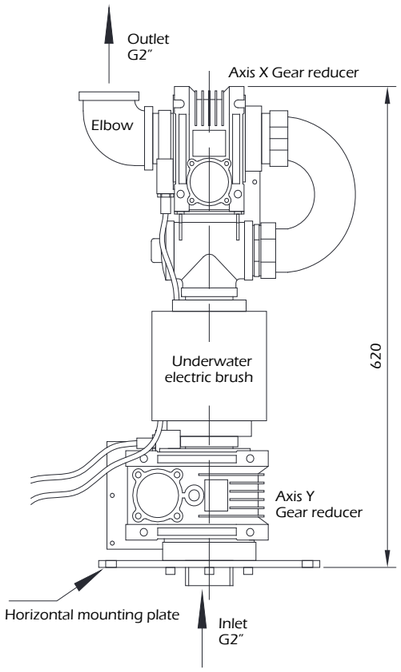
LEFT VIEW

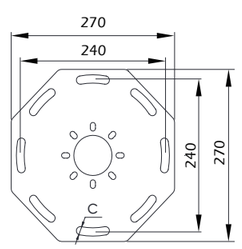
Order NO.	HXL2-50S	
	Axis X	Axis Y
Material	Stainless steel 304	
Worm gear ratio	1:10	1:10
Max transmission distance via cable	500m	500m
Stepper motor voltage	80V AC	80V AC
Stepper motor power	300W	350W
Max torque of stepper motor	6 n.m	8 n.m
Sensor Input voltage	24V DC	24V DC
Max spray high	18m	18m
Max speed	75	40
180° round trip (times/minute)	42	30
90° round trip (times/minute)	70	50
45° round trip (times/minute)	135	60
5° round trip (times/minute)	1200	/
Weight	40 kg	
Power cable	1m	

DIMENSIONS

Unit: mm







Bottom view for the horizontal installation





COMPLETE FOUNTAIN UNIT SERIES

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Digital Water Curtain

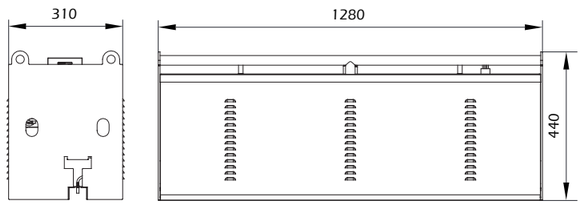
DWC-128



This water curtain is particularly attractive in public areas such as shopping malls, office complexes, luxury hotels and theme parks. The unique arrangement of the nozzles produces an unique magic waterfall with high visibility. Thanks to the fast reacting valve technology, we can also programme a variety of patterns on the water wall to convey text and graphic messages for our customers.

DIMENSIONS

Unit: mm



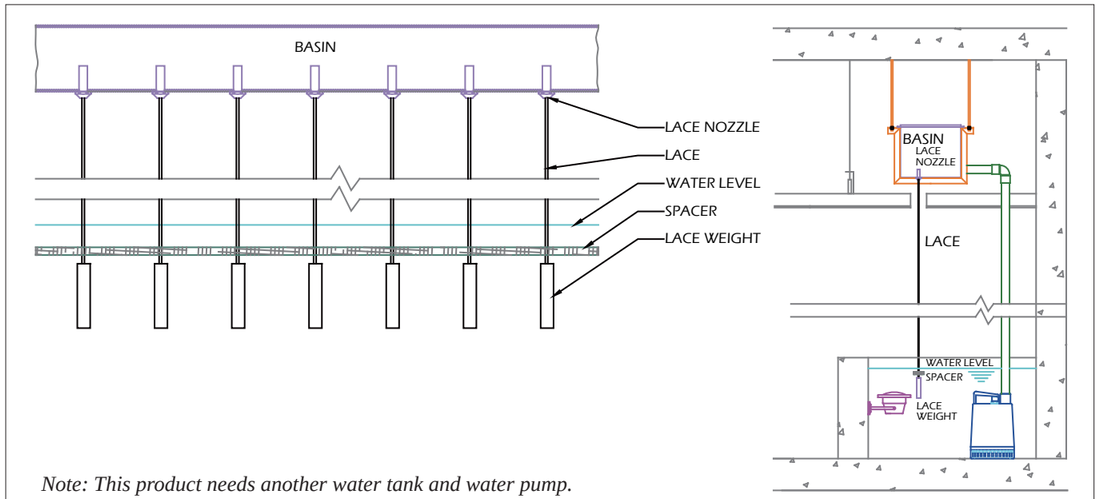


Type	DWC-128
Material	SS304
Amount of valve	64
Amount of nozzle	128
Nozzle diameter	4.5mm
Distance between the nozzles	10mm
Power consumption	800W
Water consumption	50lpm
Weight dry	65kg
Weight filled with water	115kg

CHARACTERISTICS

- Precise valve control via DMX.
- Recommended max. height: 10m.
- 110-240V AC 50/60 Hz power supply.
- Modular digital water curtain system: curved/straight
- Accurately defined text and graphics displays due to fast reacting valve technology.
- Closely packed nozzle/valve arrangement to ensure high resolution.

Mylar Lace Drip



Note: This product needs another water tank and water pump.

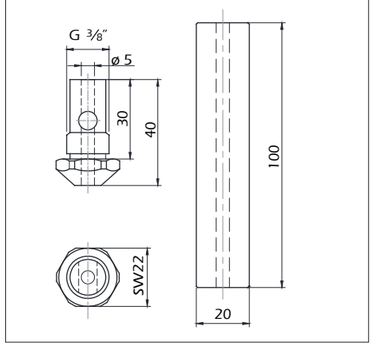
The Mylar Lace Drip contains a plurality of lace nozzles and a corresponding number of adjustable clear Mylar PET lace and lace weights.
This type of fountain provides not only a tranquil relaxing feeling for a busy environment but also a beautiful divide as an architectural feature.
Provide customized matching water tank (304 stainless steel material) service.



Type	Water demand lpm	Material	Weight kg
Nozzle for mylar lace	0.5	Brass	0.06
Mylar lace		PET	0.15
Lace weight		Brass	0.23

DIMENSIONS

Unit: mm





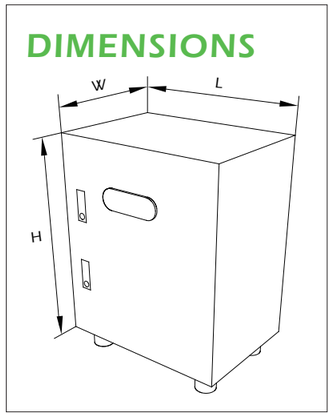
Fog Machine



CHARACTERISTICS

- BERTOLINI plunger pump, made in Italy.
- ABB brand electric motor
- Pump and motor are integrated, motor directly drives the pump. Reduced galling noise.
- Pressure sensor to ensure the water inflow.
- Tank fitted with water level detector.
- Membrane filter.
- Integrated controller.

DIMENSIONS





PERFORMANCE

Type	Flow rate lpm	Pressure bar	Power kW	Load qty. of fog nozzle CF-15S	CF-20S	L×W×H mm
HX50-1.1	4	≥90	1.1	50-60	40-50	800×600×1000
HX85-1.5	8.5	≥90	1.5	90-100	80-90	
HX120-2.2	12	≥90	2.2	130-150	120-130	
HX150-3.0	15	≥90	3.0	160-180	150-160	
HX210-4.0	23	≥90	4.0	230-250	210-230	
HX300-5.5	30	≥90	5.5	330-350	300-310	900×700×1200

Flaming Water Jet

WAF5040



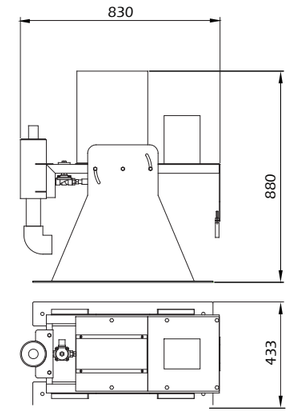
The design of Flaming Water Jet breaks the conventional thinking. Water and fire are two opposite natural elements can be programmed to stay and dance together beautifully. Flaming Water Jet can be adjusted within 25 degree to give either a vertical or a parabolic effect of flaming water.
The spray height can be programmed to match flirtatious dancing flame and create a spectacular water and fire show.

CHARACTERISTICS

- Spray height: 5m (gentle breeze below)
- Rated voltage: AC110V / AC220V
- Total power: 600W
- Weight: 55kg
- Material: SS304
- bottled gas (propane) (client supplied)
- Bunkers flow rate: 12kg/h, 0.4MPa

DIMENSIONS

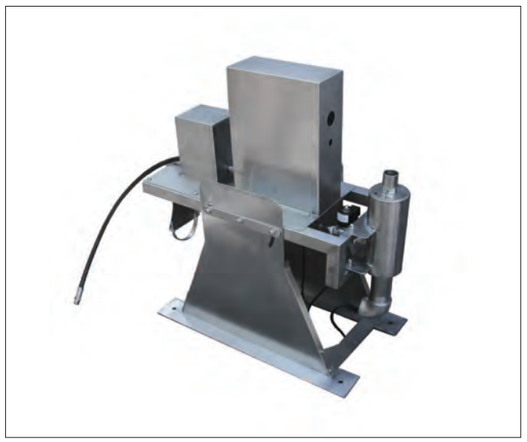
Unit: mm



PERFORMANCE

Type	WAF5040	
Ht.	P	Q
m	bar	lpm
0.5	0.1	128
0.75	0.2	156
1	0.3	175
1.5	0.5	222
2	0.6	266
3	1.1	344
4	1.6	422
5	2.1	500

- Ht. = Spray height (m)
- P = Pressure demand (bar)
- Q = Flow rate (lpm)

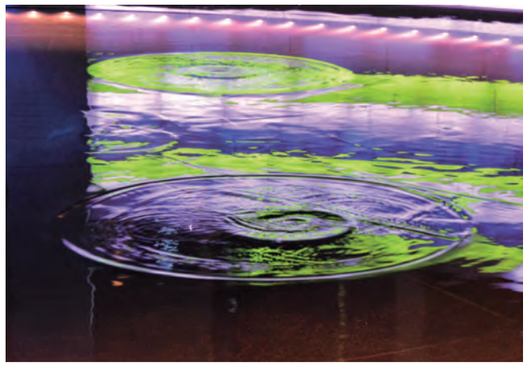


COMPLETE FOUNTAIN UNIT SERIES

Ripper Generator

RP500/RP750





When the ripples, lights and the still pool intermingle, they form a harmonious unity of motion and stillness. In the hustle and bustle of the city, such beauty is like a sparkling landscape that is refreshing to the mind.

The Ripple Generator uses a ring nozzle design that sprays at the proper flow rate to create concentric wrinkles or ripples inward and outward. This causes beautiful ripples on still water.As the ripples gradually move away from the nozzle, their dynamics diminish and tranquility is restored to the water in the pool.

The source of these visual waves can be hidden with appropriate installation.By using DMX pump control system to control the time of switching on and off, as well as the operational speed of the pump, to change the frequency of the creation of waves, in accordance with the timing of turning on and off the lights, the different effects can be delivered along with multi-sets designing of a ripple fountain.

ARCHITECTURAL SPECIFICATION FOR INTEGRATION

The integrated design of the ripple generator needs to meet some special requirements in order to be able to appreciate the ripple effect at its best.
To ensure that the ripples are not visually jarring or obvious, the ripple-generating nozzles need to be hidden in a very specific way.Factors such as the material and color of the pool finish can affect the ripples' effect and visual perception.

Therefore, designers need to consider all factors to create the best ripple effect.

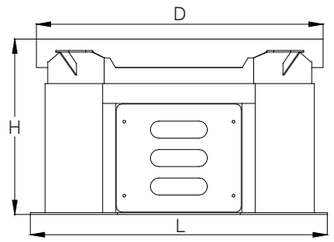
- The ripple generator shall be installed in a mirror pool with circulating water replenishment.
- Water level over nozzle should be 5-8mm.
- Pool finishes recommended to be black/dark.

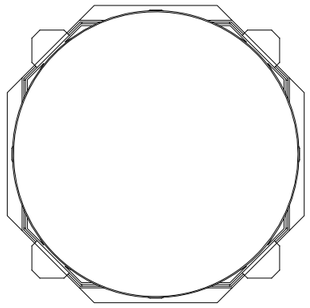
Only test tops are provided, users need to provide their own tops of the same color and material as the pool for official use.

We recommend a site analysis of the pool area prior to implementation as lighting conditions may have impact on the final display.

DIMENSIONS

Unit: mm







CHARACTERISTICS

- Wave System
- Ideal for calm reflective pool
- Delivered as a complets unit for integration with pool structure and finishes
- Two ring nozzle sizes available
- Main mechanical parts comprising of controllable pump,underwater decoder and neon flex
- Argentate coated stainless steel design
- Protection class: IP68
- Power cable: 2 x 1 VDE
  DMX cable: 3 x 0.75 VDE

PERFORMANCE

Type	RP500	RP750
Ring nozzle diameter(mm)	Φ500	Φ750
Dimension=L×W×H(mm)	522×522×308	784×784×308
Power consumption of max(W)	430	600
Nominal voltage	24V DC	24V DC
Protection class	IP68	IP68
Power cable of pump	0.5m 2 x 1 VDE	0.5m 2 x 1 VDE
Power cable of Neon Flex	0.5m 2 x 1 VDE	0.5m 2 x 1 VDE
DMX Input Signal Cable of pump	0.5m 3 x 0.75 VDE	0.5m 3 x 0.75 VDE
DMX output Signal Cable of pump	0.5m 3 x 0.75 VDE	0.5m 3 x 0.75 VDE
Total number of DMX channel	6	6
Material	Stainless steel 304/Plastic	Stainless steel 304/Plastic
Weight(kg)	45	80

Air Blast Nozzle

AB30/AB70



AB30
(non-adjustable)



AB70
(Adjustable)

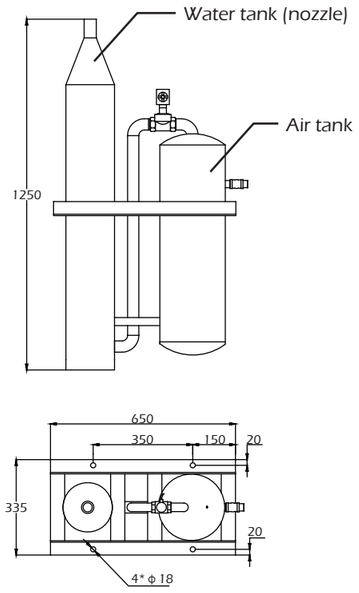
SPECIFICATIONS

- Stainless steel 304
- 24V DC
- Needs to be connected to an air compressor
- DMX control system can be used to replenish air in real time.
- AB30 must be installed underwater
- AB70 available for underwater and dry installation
- AB30 non-adjustable angle
- AB70 equipped with a screw mechanism for easy angle adjustment

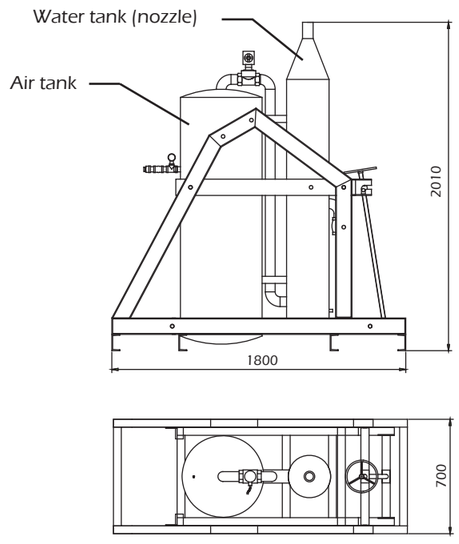


DIMENSIONS

Unit: mm



AB30



AB70

Performance

Type	AB30	AB70
Dimension=L×W×H(mm)	680×330×1280	1800×700×2010
Weight(kg)	40	310
Flow rate(L/One time)	25	80~100
Max. pressure demand(bar)	8	12.5
Max. spray height(m)	30	70
Angle(°)	/	0°、30°
Spray time(ms)	400	400
Water inlet	self-inflow	G1 1/2″
Air inlet	G1"	G1"
Input voltage(V)	24V DC	
Rated current(A)	0.83	
Material	Stainless steel 304	

COMPLETE FOUNTAIN UNIT SERIES

Digital Variety Jet

DVJ50





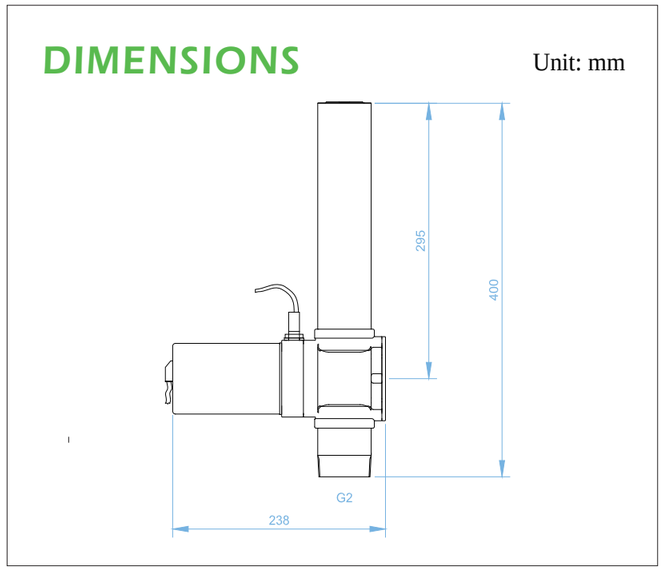
Digital Variety Jet is to transform the digital pulse signal sent out by the control system into the reciprocating motion of the water baffle mounted on the control system by a special precise mechanism, thus forming two kinds of water forms: direct and scattering.
The motion stroke and speed can be controlled digitally by the control system, which has the advantages of large output torque, digital control and accurate motion.

Through the change of motion stroke and speed, the scattered water forms can form different forms from 0 to 180 degrees, create a wonderful water performance.



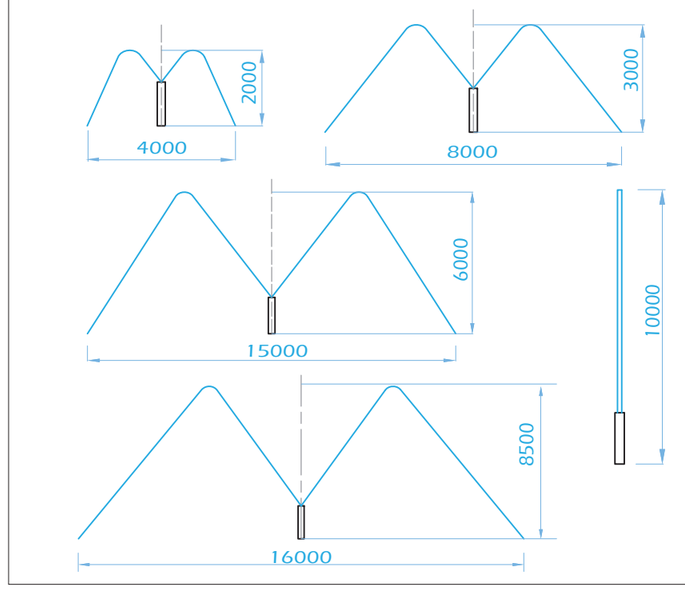
DIMENSIONS

Unit: mm



WATER SPRAY EFFECT

Unit: mm



PERFORMANCE

Type	DVJ50
Material	Stainless steel 304
Stepper motor voltage	80V AC
Stepper motor power	150W
DMX Driver input voltage	24V DC
Sensor input voltage	24V DC
Max spray high	10M
Flow rate(m^3/h)	20
Max. pressure demand(bar)	2
Sensor type	NPN
Inlet(Outside Thread)	G2"
DMX signal range	1-76 (Variation range)
Minimum time to complete a change	0.75s

COMPLETE FOUNTAIN UNIT SERIES

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Comet Nozzles



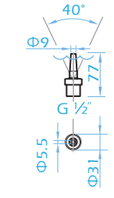
CHARACTERISTICS

- Stainless steel 304
- Clear stream jet
- Good resistance to wind
- With flow regulator
- Water level independent
  (Below recommended water level)
- Adjustable spray angle

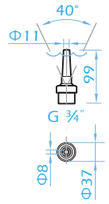


DIMENSIONS

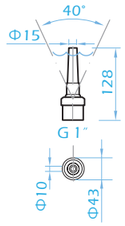
Unit: mm



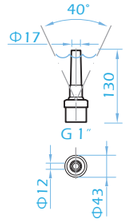
ZL15-6



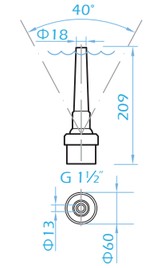
ZL20-8



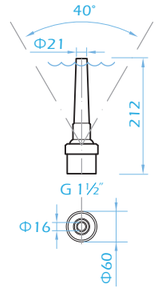
ZL25-10



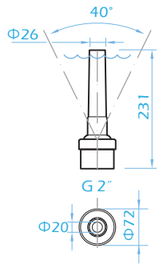
ZL25-12



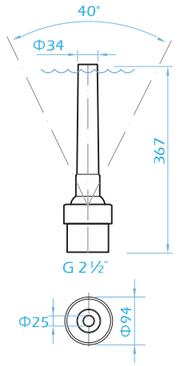
ZL40-13



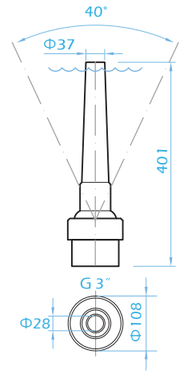
ZL40-16



ZL50-20



ZL65-25



ZL80-28

Note: For best results, it is recommended not to exceed the water level in the figure.

PERFORMANCE

Type	ZL15-6		ZL20-8		ZL25-10		ZL25-12		ZL40-13		ZL40-16		ZL50-20		ZL65-25		ZL80-28	
Wt.	0.08		0.17		0.21		0.21		0.5		0.5		0.83		2.28		3.04	
Ht.	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
m	lpm	bar	lpm	bar	lpm	bar	lpm	bar	lpm	bar	lpm	bar	lpm	bar	lpm	bar	lpm	bar
0.5	7	0.05	11	0.05	18	0.05	23	0.06										
0.75	10	0.08	15	0.10	24	0.08	25	0.08										
1	12	0.10	19	0.15	27	0.10	27	0.10	42	0.14								
1.5	15	0.15	23	0.20	32	0.15	35	0.15	46	0.18								
2	17	0.20	27	0.25	35	0.20	55	0.21	50	0.20	80	0.20						
2.5			31	0.30	40	0.25	58	0.25	57	0.25	88	0.25						
3			35	0.40	46	0.30	63	0.35	63	0.30	98	0.30	160	0.35	280	0.46		
4			37	0.50	53	0.40	75	0.50	79	0.48	118	0.45	200	0.60	326	0.60		
5					60	0.50	87	0.70	102	0.70	140	0.60	225	0.75	369	0.75	439	0.71
6							95	0.85	120	1.10	180	0.80	246	0.95	405	0.90	479	0.86
8									140	1.90	200	1.00	270	1.15	450	1.10	552	1.20
10									180	2.30	230	1.20	293	1.50	490	1.68	618	1.40
12															531	2.25	800	1.70
15																	880	2.50

- Wt.= Weight (kg)
- Ht.= Spray height (m)
- P= Pressure demand (bar)
- Q= Flow rate (lpm)

NOZZLE SERIES

Comet Nozzles



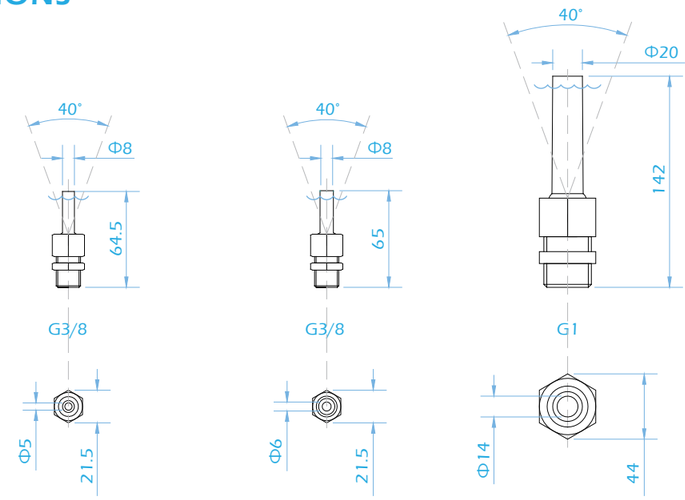
CHARACTERISTICS

- Stainless steel 304
- Clear stream jet
- With flow regulator
- Water level independent (Below recommended water level)
- Adjustable spray angle



DIMENSIONS

Unit: mm



Note: For best results, it is recommended not to exceed the water level in the figure.

PERFORMANCE

Type	ZLG10-5		ZLG10-6		ZLG25-14	
Wt.	0.05		0.05		0.36	
Ht.	Q	P	Q	P	Q	P
m	lpm	bar	lpm	bar	lpm	bar
0.50	3.8	0.07	4.8	0.06	30	0.06
0.75	5.3	0.09	6.2	0.09	37	0.09
1.00	6.3	0.13	7.2	0.12	44	0.12
1.25	7.2	0.15	8.7	0.15	50	0.15
1.50	8.0	0.18	10.0	0.18	55	0.18
1.75	8.7	0.22	11.1	0.21	60	0.21
2.00	9.3	0.25	12.1	0.25	65	0.24
2.50			14.0	0.32	73	0.30
3.00			15.6	0.40	81	0.37
3.50					87	0.43
4.00					94	0.50
5.00					105	0.62
6.00					116	0.75
7.00					125	0.88
8.00					134	1.01
9.00					143	1.14
10.00					151	1.28

- Wt. = Weight (kg)
- Ht. = Spray height (m)
- P = Pressure demand (bar)
- Q = Flow rate (lpm)

NOZZLE SERIES

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Foam Nozzles



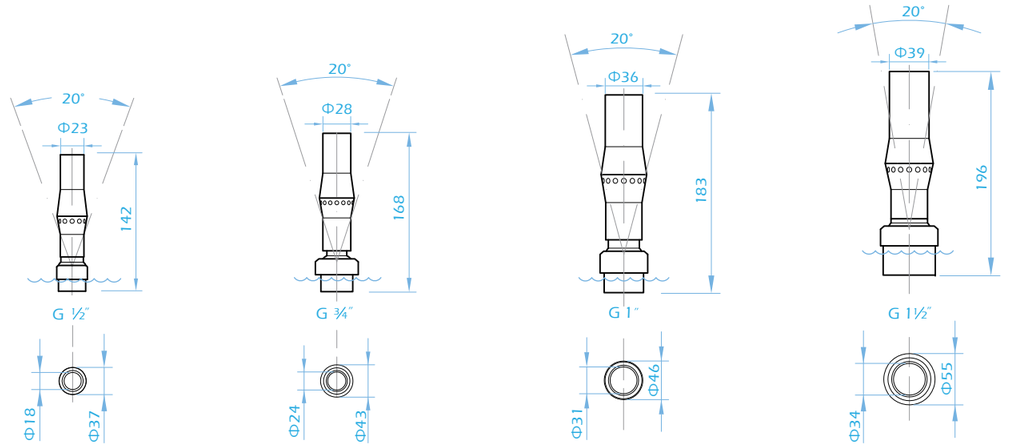
CHARACTERISTICS

- Stainless steel 304
- Foamy jet
- Good resistance to wind
- With flow regulator
- Water level dependent
  (Below recommended water level)
- Adjustable spray angle



DIMENSIONS

Unit: mm



Note: For best results, it is recommended not to exceed the water level in the figure.

PERFORMANCE

Type	PM15		PM20		PM25		PM40	
Wt.	0.29		0.41		0.74		0.80	
Ht.	Q	P	Q	P	Q	P	Q	P
m	lpm	bar	lpm	bar	lpm	bar	lpm	bar
0.5	20	0.05	26	0.06	47	0.07	82	0.10
0.75	28	0.18	35	0.08	55	0.10	100	0.20
1	32	0.20	38	0.12	65	0.15	112	0.30
1.5	40	0.35	48	0.20	83	0.22	142	0.50
2	46	0.45	56	0.30	95	0.34	170	0.60
3	58	0.70	69	0.48	112	0.54	220	1.10
4	70	1.10	91	0.80	142	0.80	270	1.60
5			110	1.20	166	1.00	320	2.10
6					180	1.20	370	2.60

- Wt. = Weight (kg)
- Ht. = Spray height (m)
- P = Pressure demand (bar)
- Q = Flow rate (lpm)

NOZZLE SERIES
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Foam Nozzles





CHARACTERISTICS

- Stainless steel 304 shell (BG25P)
- Stainless steel 304 (BG25,BG40,BG50)
- Foamy jet
- Good resistance to wind
- Water level dependent
- Optional swivel connector



BG25P



BG25



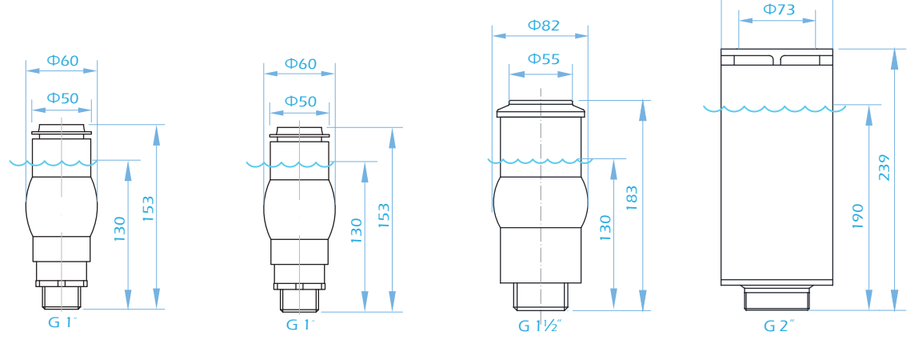
BG40



BG50

DIMENSIONS

Unit: mm



BG25P BG25 BG40 BG50

Note: The water levels in the chart are the optimal levels we recommend.

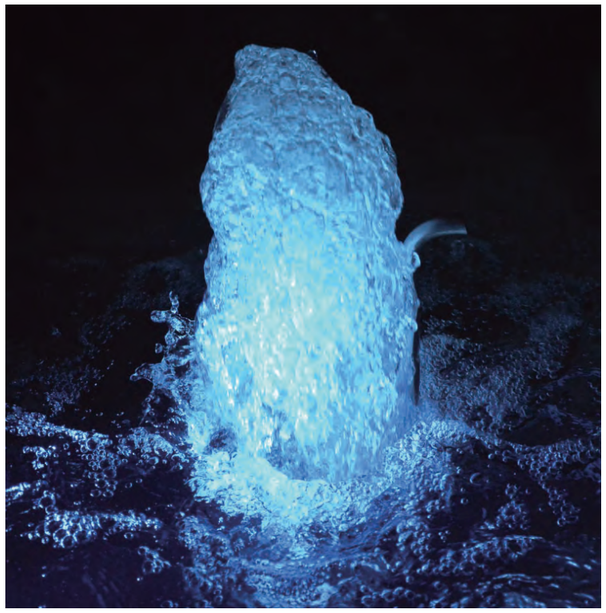
PERFORMANCE

Type	BG25P		BG25		BG40		BG50	
Wt.	0.50		1.00		1.39		3.40	
Ht.	Q	P	Q	P	Q	P	Q	P
m	lpm	bar	lpm	bar	lpm	bar	lpm	bar
0.5	46	0.05	46	0.05	120	0.10		
0.75	60	0.10	60	0.10	144	0.14		
1	73	0.18	73	0.18	171	0.19	320	0.15
1.5	90	0.28	90	0.28	215	0.26	390	0.18
2	100	0.50	100	0.50	256	0.38	450	0.21
2.5	110	0.60	110	0.60	300	0.49	516	0.32
3	130	0.70	130	0.70	340	0.60	583	0.45
4	160	0.90	160	0.90	398	0.75	716	0.60
5	195	1.40	195	1.40	451	0.95	775	0.90

- Wt. = Weight (kg)
- Ht. = Spray height (m)
- P = Pressure demand (bar)
- Q = Flow rate (lpm)

NOZZLE SERIES
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Foam Nozzles



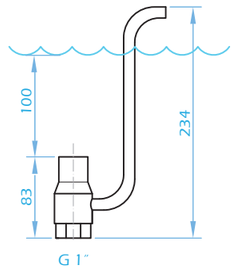
CHARACTERISTICS

- Stainless steel 304
- A mound of aerated water at low levels with a splashy frothy column at high levels
- Water level dependent

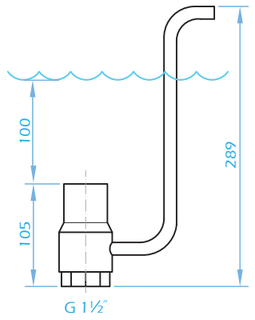


DIMENSIONS

Unit: mm



BE25



BE40

Note: For best results, it is recommended not to exceed the water level in the figure.

PERFORMANCE

Type	BE25		BE40	
Wt.	0.24		0.48	
Ht.	Q	P	Q	P
m	lpm	bar	lpm	bar
0.5	50	0.05	75	0.07
0.75	60	0.08	78	0.09
1	65	0.10	80	0.15
1.5	70	0.15	85	0.20
2	75	0.20	101	0.30
2.5	81	0.30	111	0.40
3	90	0.40	128	0.50
4	107	0.60	154	0.70
5	125	0.80	185	1.10

- Wt. = Weight (kg)
- Ht. = Spray height (m)
- P = Pressure demand (bar)
- Q = Flow rate (lpm)

Water Bell Nozzles



CHARACTERISTICS

- Stainless steel 304
- Transparent water film
- Adjustable bell diameter
- Silent running

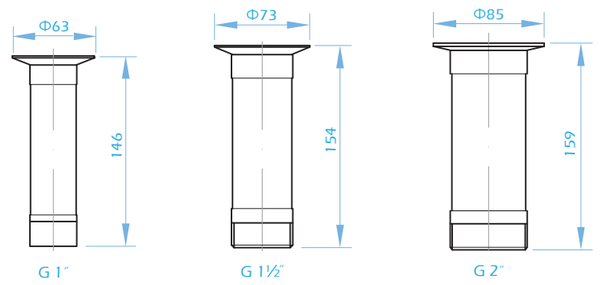
PERFORMANCE

Type	MN25	MN40	MN50
Wt.	0.47	0.61	0.88
WD	Q	Q	Q
	lpm	lpm	lpm
0.5	18		
0.75		35	
0.9			38

- Wt. = Weight (kg)
- WD = Width diameters (m)
- Q = Flow rate (lpm)

DIMENSIONS

Unit: mm



MN25 MN40 MN50



Cascade Nozzles



CHARACTERISTICS

- Stainless steel 304
- Cone-shaped effect
- Foamy effect with rich mixture of air
- Water saving
- Water level dependent
- SB series with adjustable spray angle
- SBG series with non-adjustable spray angle



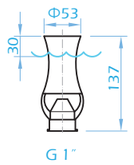
SB Series



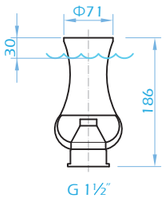
SBG Series

DIMENSIONS

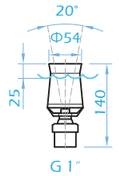
Unit: mm



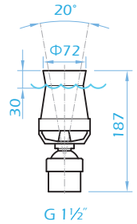
SBG25



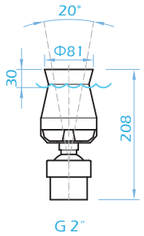
SBG40



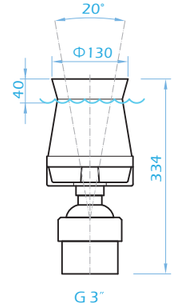
SB25



SB40



SB50



SB80

Note: The water levels in the chart are the optimal levels we recommend.

PERFORMANCE

Type	SBG25		SBG40		SB25		SB40		SB50		SB80	
Wt.	0.43		0.91		0.40		0.82		1.16		3.85	
Ht.	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
m	lpm	bar	lpm	bar	lpm	bar	lpm	bar	lpm	bar	lpm	bar
0.25	35	0.08	75	0.10	34	0.05	75	0.15	101	0.20		
0.5	40	0.10	90	0.15	40	0.10	90	0.20	108	0.25		
0.75	50	0.20	105	0.25	48	0.15	105	0.30	116	0.35		
1	55	0.21	120	0.30	55	0.20	120	0.40	125	0.45	381	0.40
1.5	65	0.40	150	0.40	66	0.40	130	0.50	142	0.55	432	0.70
2	75	0.55	180	0.60	74	0.50	142	0.60	158	0.70	484	1.00
3	80	0.70	210	0.90	80	0.70	180	1.00	192	1.10	542	1.30
4	90	1.10	240	1.20	91	0.90	220	1.50	226	1.50	606	1.60
5	103	1.40	270	1.40	103	1.10	260	2.00	260	1.90	670	1.90
6	130	2.00	300	1.70	150	2.10	300	2.50	294	2.30	734	2.20
7			330	2.00			340	3.00	328	2.70	798	2.50
8									362	3.10	862	2.80
9											926	3.10
10											990	3.40

- Wt. = Weight (kg)
- Ht. = Spray height (m)
- P = Pressure demand (bar)
- Q = Flow rate (lpm)

NOZZLE SERIES
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Fan Nozzles



CHARACTERISTICS

- Stainless steel 304
- A fan shaped display
- Display a fan-shaped spray pattern with an angled installation.
- Water level independent (Below recommended water level)

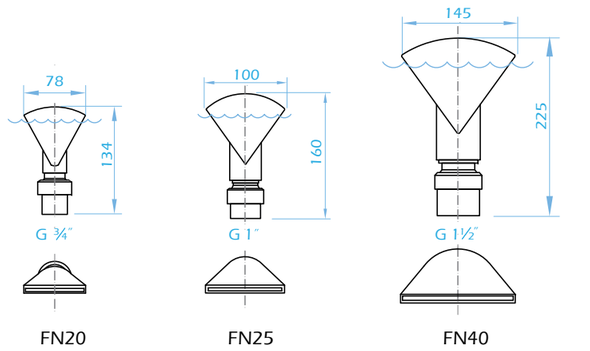
PERFORMANCE

Type	FN20		FN25		FN40	
Wt.	0.41		0.58		1.50	
Ht.	Q	P	Q	P	Q	P
m	lpm	bar	lpm	bar	lpm	bar
0.5	30	0.05	45	0.05	59	0.05
0.75	34	0.08	64	0.08	92	0.08
1	36	0.12	72	0.12	97	0.12
1.5	50	0.17	95	0.17	120	0.17
2	62	0.24	110	0.25	142	0.25
2.5			138	0.35	175	0.35
3			150	0.45	190	0.45
4					220	0.55

- Wt.= Weight (kg)
- Ht.= Spray height (m)
- P= Pressure demand (bar)
- Q= Flow rate (lpm)

DIMENSIONS

Unit: mm



Note: For best results, it is recommended not to exceed the water level in the figure.



Flat Nozzles



CHARACTERISTICS

- Stainless steel 304
- A flat shaped display
- Display an ideal parabolic spray pattern with an angled installation.
- Water level independent (Below recommended water level)

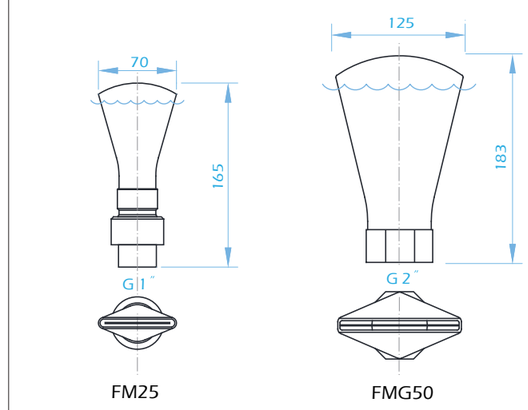
PERFORMANCE

Type	FMG25			FMG50		
Wt.	0.52			1.00		
Ht.	SPB	Q	P	SPB	Q	P
m	m	lpm	bar	m	lpm	bar
0.5	1.00	94	0.06	1.50	167	0.05
0.75	1.50	116	0.11			
1	2.00	134	0.13	3.00	234	0.10
1.5	3.00	165	0.19	4.00	267	0.15
1.75	3.80	179	0.23			
2.00				5.50	367	0.20

- Wt.= Weight (kg)
- Ht.= Spray height (m)
- P= Pressure demand (bar)
- Q= Flow rate (lpm)
- SPB= Spray Width (m)

DIMENSIONS

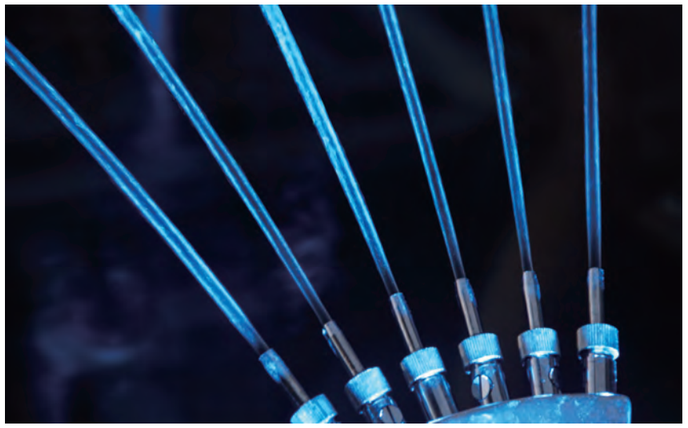
Unit: mm



Note: For best results, it is recommended not to exceed the water level in the figure.



Finger Nozzles



CHARACTERISTICS

- Stainless steel 304 (FRG series)
- Stainless steel 304 / Brass plated chrome (FR series)
- A finger-like fan shaped display
- FR series can be used vertically or angled to provide a decorative water display

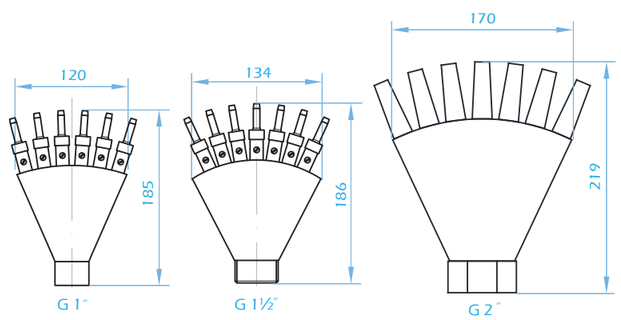
PERFORMANCE

Type	FR25		FR40		FRG50	
Wt.	0.87		0.99		0.99	
Ht.	Q	P	Q	P	Q	P
m	lpm	bar	lpm	bar	lpm	bar
1	20	0.20	18	0.10		
1.5	31	0.32	25	0.20		
2	42	0.58	34	0.40		
2.5	51	0.88	38	0.50	200	0.35
3	62	1.20	45	0.60	217	0.50
4	75	1.60	64	1.00	267	0.70

- Wt.= Weight (kg)
- Ht.= Spray height (m)
- P= Pressure demand (bar)
- Q= Flow rate (lpm)

DIMENSIONS

Unit: mm



FR25 FR40 FRG50

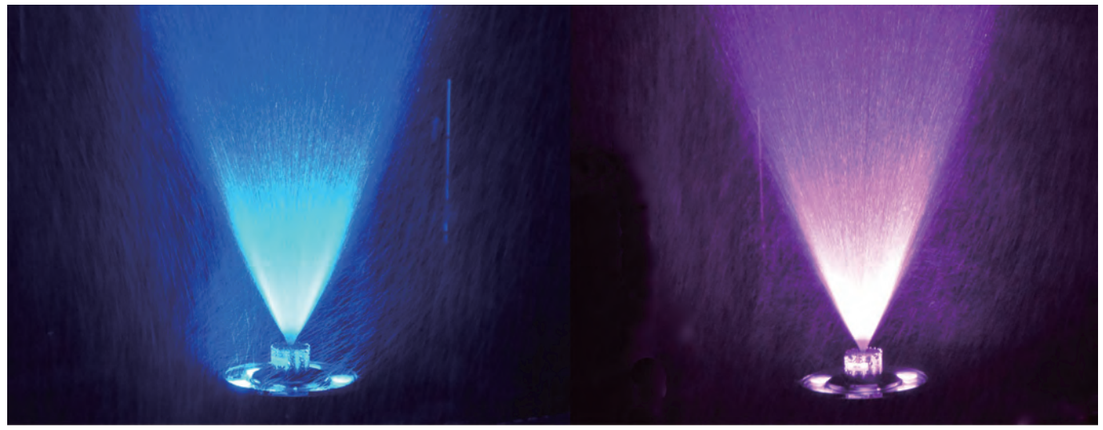


FRG Series



FR Series

Water Fog Nozzles



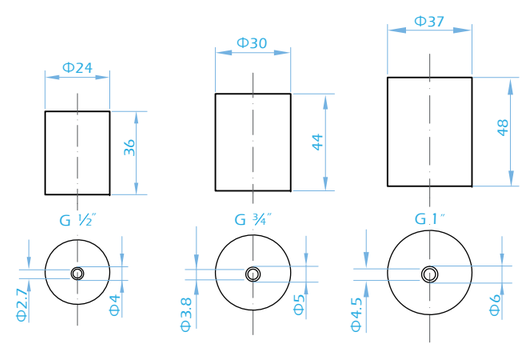
PERFORMANCE

Type	WF15		WF20		WF25	
Wt.	0.08		0.10		0.19	
Ht.	Q	P	Q	P	Q	P
m	lpm	bar	lpm	bar	lpm	bar
1	14	0.7	17	1	20	1.00
1.5	22	1.6	27	2	28	1.75
2	30	2.5	38	3	35	2.50
2.5					43	3.30
3					50	4.00

- Wt.= Weight (kg)
- Ht.= Spray height (m)
- P= Pressure demand (bar)
- Q= Flow rate (lpm)

DIMENSIONS

Unit: mm



WF15 WF20 WF25

CHARACTERISTICS

- Stainless steel 304
- Misty romantic water display



Spinning Nozzle



CHARACTERISTICS

- Stainless steel 304
- Rotating water pattern
- Various water effects can be produced by adjusting the angle of the nozzle

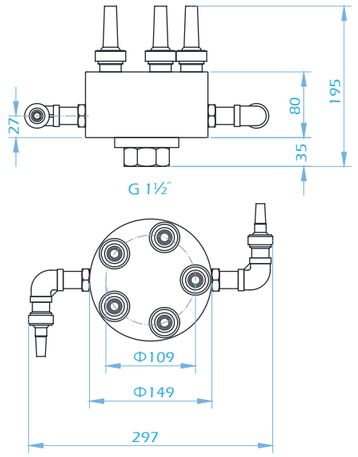
PERFORMANCE

Type	REG40		
Wt.	5.10		
Ht.	SPB	Q	P
m	m	lpm	bar
1	2.0	141	0.25
1.5	3.1	173	0.38
2	4.0	199	0.50
2.5	4.4	223	0.63
3	5.0	244	0.76
4	6.0	282	1.01

- Wt. = Weight (kg)
- Ht. = Spray height (m)
- P = Pressure demand (bar)
- Q = Flow rate (lpm)
- SPB = Spray Width (m)

DIMENSIONS

Unit: mm



REG40



Hollow Nozzle



CHARACTERISTICS

- Stainless steel 304
- Wind-stable high jet
- Significantly reduced water demand compare to full-jet nozzles
- With flow director
- Water-level independent (Below recommended water level)

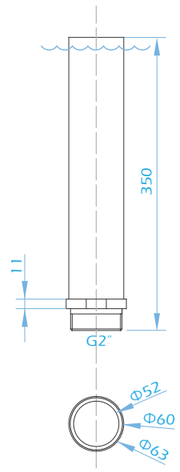
PERFORMANCE

Type	KX50	
Wt.	2	
ΦHollow Nozzle (mm)	52	
Water film thickness(mm)	4	
Ht.	Q	P
m	lpm	bar
5	441	0.72
6	483	0.89
7	540	1.00
8	562	1.13
9	597	1.27
10	622	1.41
12	743	1.63
14	802	1.97
16	874	2.34
18	925	2.78
20	1005	3.17

- Wt.= Weight (kg)
- Ht.= Spray height (m)
- Q= Flow rate (lpm)
- P= Pressure demand (bar)

DIMENSIONS

Unit: mm



KX50

Note: For best results, it is recommended not to exceed the water level in the figure.



Cluster Nozzle



CHARACTERISTICS

- Stainless steel 304
- Precise full stream
- Multi-stepped water pattern
- Easy to clean

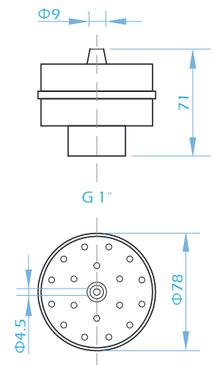
PERFORMANCE

Type	ODG25	
Wt.	0.74	
Ht.	Q	P
m	lpm	bar
0.5	28	0.05
1	45	0.15
1.5	53	0.20
2	60	0.25
2.5	70	0.32
3	95	0.45
4	110	0.80
5	130	1.00

- Wt. = Weight (kg)
- Ht. = Spray height (m)
- P = Pressure demand (bar)
- Q = Flow rate (lpm)

DIMENSIONS

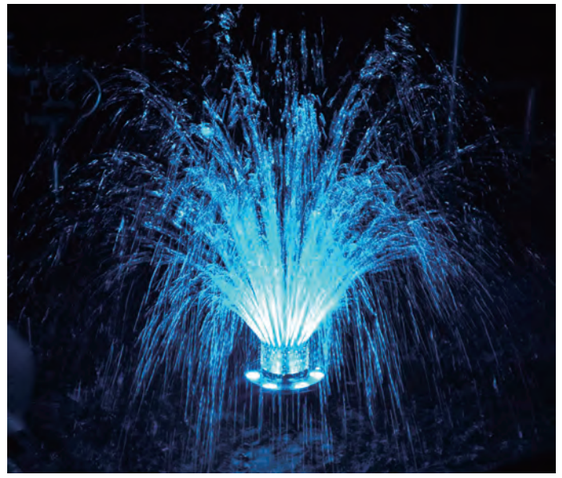
Unit: mm



ODG25



Cluster Nozzles



CHARACTERISTICS

- Stainless steel 304
- Precise full stream
- Multi-stepped water pattern
- Easy to clean

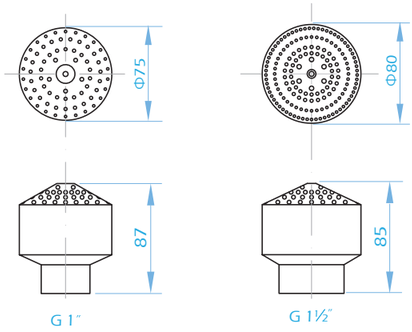
PERFORMANCE

Type	FK25		FK40	
Wt.	0.55		0.58	
Ht.	Q	P	Q	P
m	lpm	bar	lpm	bar
0.25	38	0.03	56	0.03
0.5	49	0.05	76	0.05
0.75	64	0.08	104	0.08
1	75	0.12	110	0.10
1.5	94	0.20	143	0.20

- Wt. = Weight (kg)
- Ht. = Spray height (m)
- P = Pressure demand (bar)
- Q = Flow rate (lpm)

DIMENSIONS

Unit: mm



FK25 FK40



NOZZLE SERIES

www.novafountain.com.sg

Cluster Nozzles



CHARACTERISTICS

- Stainless steel 304 / Brass plated chrome (FP25)
- Stainless steel 304 (FP40, FP50)
- Precise full stream
- Multi-stepped water pattern
- Easy to clean

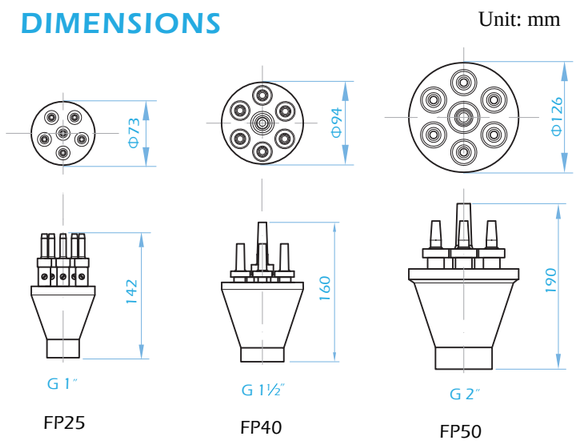
PERFORMANCE

Type	FP25		FP40		FP50	
Wt.	0.42		1.56		1.75	
Ht.	Q	P	Q	P	Q	P
m	lpm	bar	lpm	bar	lpm	bar
0.5	16	0.05	68	0.05	82	0.05
0.75	19	0.08	75	0.08	108	0.08
1	21	0.10	89	0.10	124	0.10
1.5	26	0.18	131	0.15	162	0.15
2	34	0.24	156	0.20	190	0.20
2.5	36	0.28	172	0.30	210	0.30
3	43	0.40	191	0.45	230	0.40
4	50	0.70	230	0.60	250	0.80

- Wt.= Weight (kg)
- Ht.= Spray height (m)
- P= Pressure demand (bar)
- Q= Flow rate (lpm)

DIMENSIONS

Unit: mm





NOZZLE SERIES

Cluster Nozzles



CHARACTERISTICS

- Stainless steel 304 / Brass plated chrome
- Precise full stream
- Multi-stepped water pattern

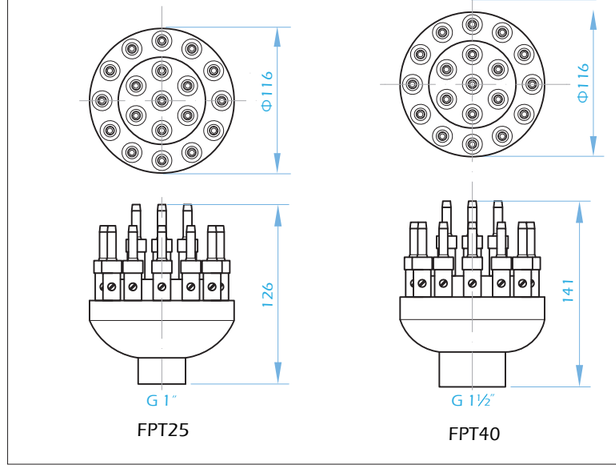
PERFORMANCE

Type	FPT25		FPT40	
Wt.	1.5		1.44	
Ht.	Q	P	Q	P
m	lpm	bar	lpm	bar
0.5	50	0.05	50	0.05
0.75	66	0.10	62	0.10
1	68	0.12	70	0.12
1.5	85	0.20	90	0.20
2	110	0.35	120	0.32
2.5	120	0.40	140	0.40

- Wt.= Weight (kg)
- Ht.= Spray height (m)
- P= Pressure demand (bar)
- Q= Flow rate (lpm)

DIMENSIONS

Unit: mm





Annular Nozzles



PERFORMANCE

Type	RA25		RA40	
Wt.	0.30		0.47	
Ht.	Q	P	Q	P
m	lpm	bar	lpm	bar
0.5	24	0.10	50	0.18
0.75	27	0.12	60	0.20
1	31	0.15	70	0.22
1.5	41	0.21	85	0.28
2	46	0.28	96	0.40
2.5	55	0.38	108	0.50
3	58	0.41	115	0.60
4	70	0.65	125	0.70
5	95	1.00	140	0.80
6			160	0.90
7			200	1.20

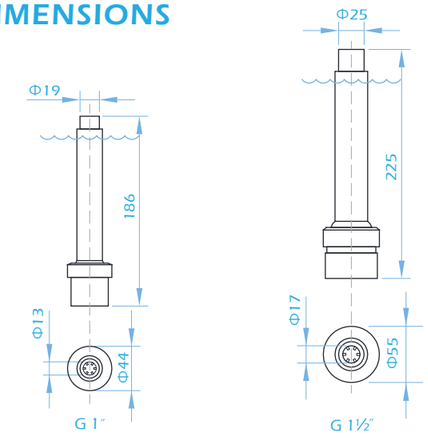
- Wt.= Weight (kg)
- Ht.= Spray height (m)
- P= Pressure demand (bar)
- Q= Flow rate (lpm)

CHARACTERISTICS

- Stainless steel 304
- Easy to clean
- Water level independent
  (Below recommended water level)

DIMENSIONS

Unit: mm

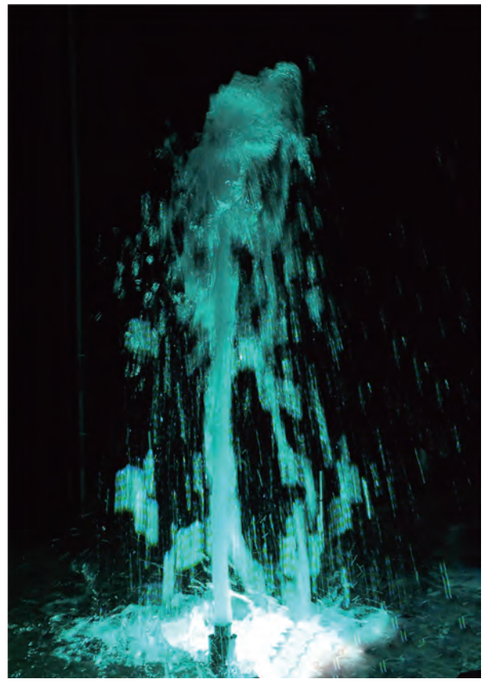


RA25 RA40

Note: For best results, it is recommended not to exceed the water level in the figure.



Aerated Nozzles



PERFORMANCE

Type	MA25		MA40	
Wt.	0.33		0.80	
Ht.	Q	P	Q	P
m	lpm	bar	lpm	bar
0.5	20	0.05	40	0.18
0.75	23	0.10	48	0.20
1	28	0.11	55	0.22
1.5	36	0.18	72	0.32
2	43	0.25	80	0.40
2.5	48	0.30	92	0.45
3	53	0.38	100	0.52
4	61	0.50	110	0.60
5	71	0.65	120	0.70
6			130	0.80
7			180	1.20

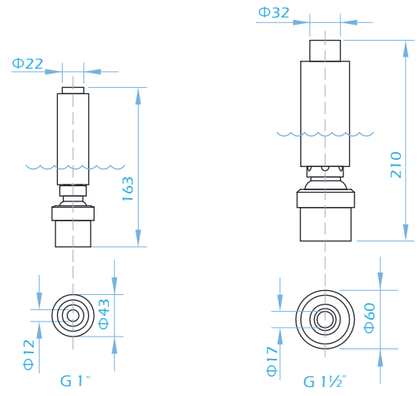
- Wt.= Weight (kg)
- Ht.= Spray height (m)
- P= Pressure demand (bar)
- Q= Flow rate (lpm)

CHARACTERISTICS

- Stainless steel 304
- Easy to clean
- Water level dependent

DIMENSIONS

Unit: mm



MA25 MA40

Note: The water levels in the chart are the optimal levels we recommend.



Small Type Recessed LED Pool Light

IP68 OUTDOOR RATED · RoHS COMPLIANT · CE

HX69B-3

Symmetrical



Warning:

Must be installed underwater to prevent being damaged from over heating.

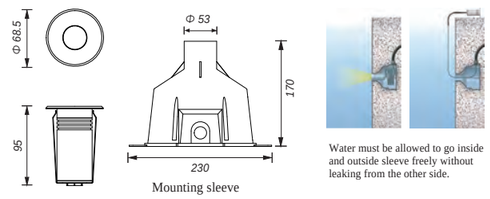
DESCRIPTION

The recessed underwater light series is your solution to tight spaces. Whether installed free-standing or recessed, the HX69B provides sufficient illumination for most residential and indoor water features. This compact fixture is easily hidden from sight or even integrated with the hardscape to achieve better ambience.
All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



DIMENSIONS

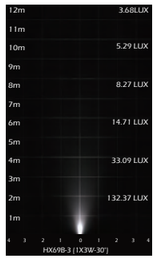
Unit: mm



Water must be allowed to go inside and outside sleeve freely without leaking from the other side.

SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316
- Light Window: step tempered glass. T=7mm
- Gasket: silicone gasket
- Optional lens angle:9°, 15°, 20°, 30°, 45°, 60°
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- LED colour temperature: 2,000K•3,000K•6,000K
- LED Driver: Constant Voltage Input, Constant Current Output
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Mounting sleeve: PC/ABS ALLOYS
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V) Vert.Spread:30.5	Beam Width (H) Horiz.Spread:29.9
2m	132.37 LUX		1.1 m	1.1 m
4m	33.09 LUX		2.2 m	2.1 m
6m	14.71 LUX		3.3 m	3.2 m
8m	8.27 LUX		4.4 m	4.3 m
10m	5.29 LUX		5.5 m	5.3 m
12m	3.68 LUX		6.5 m	6.4 m

SLEEVE (Included)



A Water stopper (Included)
The luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into theluminaire. That's why the device is needed to prevent the water vapor go in.

B IP68 Jiffy quick plug/socket connector (Option)
To prevent water vapor into luminaire via wire which had been cut, the air contains lots of steams when raining, spray or in humid environment, the luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into the luminaire.

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX69B-3	1x3W	30°	24V DC	110	2.6	Cool white=174 Warm white=139	06

Small Type Recessed LED Pool Light

IP68 OUTDOOR RATED · RoHS COMPLIANT · CE

HX69B-3T

Symmetrical



Warning:

Must be installed underwater to prevent being damaged from over heating.

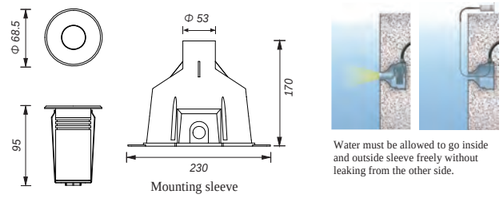
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DIMENSIONS

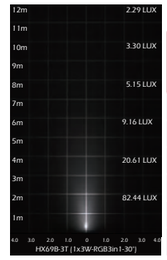
Unit: mm



Water must be allowed to go inside and outside sleeve freely without leaking from the other side.

SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316
- Light Window: step tempered glass. T=7mm
- Gasket: silicone gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Mounting sleeve: PC/ABS ALLOYS
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V) Vert.Spread:26	Beam Width (H) Horiz.Spread:25.7
2m	82.44 LUX		0.9m	0.9 m
4m	20.61 LUX		1.8 m	1.8 m
6m	9.16 LUX		2.8 m	2.7 m
8m	5.15 LUX		3.7 m	3.6 m
10m	3.30 LUX		4.6 m	4.6 m
12m	2.29 LUX		5.5 m	5.5 m

SLEEVE (Included)



A Water stopper (Included)
The luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into theluminaire. That's why the device is needed to prevent the water vapor go in.

B IP68 Jiffy quick plug/socket connector (Option)
To prevent water vapor into luminaire via wire which had been cut, the air contains lots of steams when raining, spray or in humid environment, the luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into the luminaire.

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX69B-3T	1x3W RGB 3in1 Full color	30°	24V DC	R =48 G=62 B=62	4.1	103	06

Small Type Recessed LED Pool Light

HX69B-3E

Asymmetrical



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

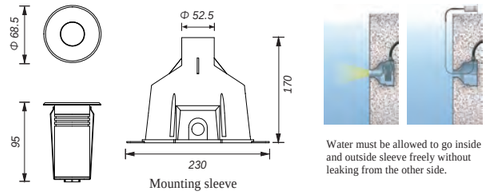
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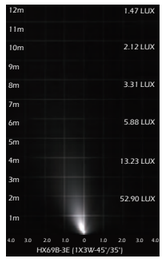
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316
- Light Window: step tempered glass. T=7mm
- Gasket: silicone gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Mounting sleeve: PC/ABS ALLOYS
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	52.90 LUX		1.0m	0.8m
4m	13.23 LUX		1.9m	1.6m
6m	5.88 LUX		2.9m	2.4m
8m	3.31 LUX		3.8m	3.2m
10m	2.12 LUX		4.8m	4.0m
12m	1.47 LUX		5.7m	4.7m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX69B-3E	1x3W	45°/35°	24V DC	110	2.6	Cool white=143 Warm white=115	06

Wall Recessed LED Pool Light

HX135B-S12

Symmetrical

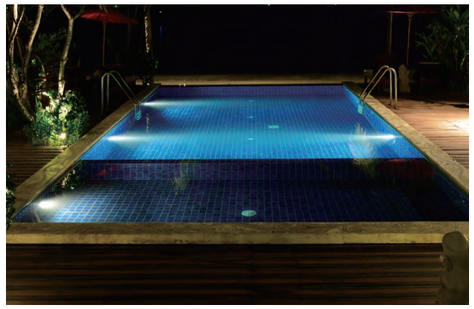


Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

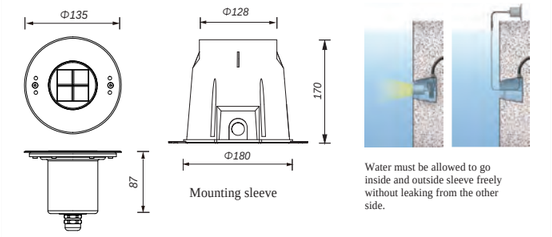
DESCRIPTION

The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool.
The HX135B is the most compact in the series. Perfect for lighting shallow pools and spas as well as water displays up to a 2-metre spray height, its robust construction allows it to be installed in walls and on floors.
All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: step tempered glass. T=8mm
- Gasket: silicone gasket
- Optional lens angle:20°, 30°, 50°
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- LED colour temperature: 2,000K•3,000K•6,000K
- LED Driver: Constant Voltage Input, Constant Current Output
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Built-in overheat sensor system: automatic shutdown at 75℃
- Mounting sleeve: PC/ABS ALLOYS
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V) Vert.Spread:23.0	Beam Width (H) Horiz.Spread:23.1
2m	1132.74 LUX		0.8m	0.8m
4m	283.18 LUX		1.6m	1.6m
6m	125.86 LUX		2.4m	2.4m
8m	70.80 LUX		3.3m	3.2m
10m	45.31 LUX		4.1m	4.1m
12m	31.46 LUX		4.9m	4.9m

SLEEVE (Included)



A Water stopper (Included)
The luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into theluminaire. That's why the device is needed to prevent the water vapor go in.

B IP68 Jiffy quick plug/socket connector (Option)
To prevent water vapor into luminaire via wire which had been cut, the air contains lots of steams when raining, spray or in humid environment, the luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into the luminaire.

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX135B-S12	4x3W	20°	24V DC	510	12.2	997	08

Wall Recessed LED Pool Light

HX135B-8T
Symmetrical



Warning:

Must be installed underwater to prevent being damaged from over heating.

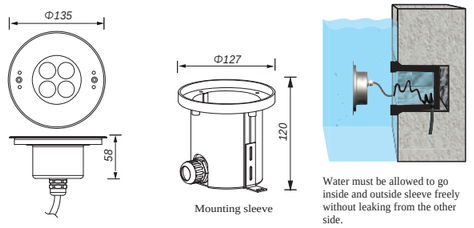
DESCRIPTION

The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool.
The HX135B is the most compact in the series. Perfect for lighting shallow pools and spas as well as water displays up to a 2-metre spray height, its robust construction allows it to be installed in walls and on floors.
All NOVA LED lights can be programmed to dim, colour-change and synchronize to create infinite combinations of kaleidoscopic displays.



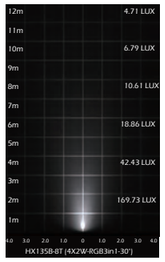
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: step tempered glass. T=8mm
- Gasket: silicone gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃, less than 1 meter depth
- Mounting sleeve: PC/ABS ALLOYS
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	169.73 LUX		0.8m	0.7m
4m	42.43 LUX		1.7m	1.4m
6m	18.86 LUX		2.5m	2.1m
8m	10.61 LUX		3.3m	2.8m
10m	6.79 LUX		4.1m	3.5m
12m	4.71 LUX		5.0m	4.2m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX135B-8T	4x2W RGB 3in1 Full color	30°	24 VDC	R=200 G=215 B=215	15	262	08

Wall Recessed LED Pool Light

HX135B-S12E
Asymmetrical

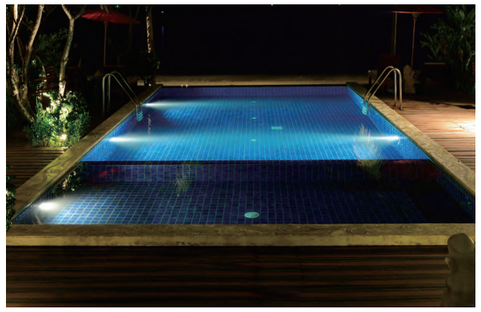


Warning:

Must be installed underwater to prevent being damaged from over heating.

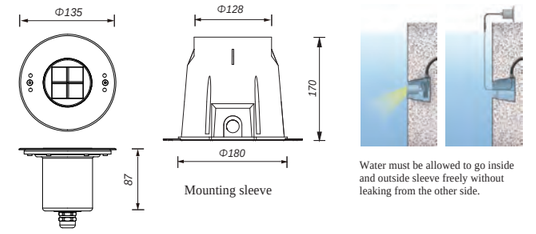
DESCRIPTION

The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool.
The HX135B is the most compact in the series. Perfect for lighting shallow pools and spas as well as water displays up to a 2-metre spray height, its robust construction allows it to be installed in walls and on floors.
All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



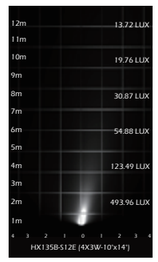
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: step tempered glass. T=8mm
- Gasket: silicone gasket
- Optional lens angle:10°×14°, 21°×29°
- LED colour temperature: 2,000K•3,000K•6,000K
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- LED Driver: Constant Voltage Input, Constant Current Output
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Built-in overheat sensor system: automatic shutdown at 75℃
- Mounting sleeve: PC/ABS ALLOYS
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V) Vert.Spread:29.1	Beam Width (H) Horiz.Spread:21.0
2m	493.96 LUX		0.7m	1.0m
4m	123.49 LUX		1.5m	2.1m
6m	54.88 LUX		2.2m	3.1m
8m	30.87 LUX		3.0m	4.2m
10m	19.76 LUX		3.7m	5.2m
12m	13.72 LUX		4.4m	6.2m

SLEEVE (Included)



A Water stopper (Included)
The luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into theluminaire. That's why the device is needed to prevent the water vapor go in.

B IP68 Jiffy quick plug/socket connector (Option)
To prevent water vapor into luminaire via wire which had been cut, the air contains lots of steams when raining, spray or in humid environment, the luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into the luminaire.

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX135B-S12E	4x3W	21°×29°	24V DC	510	12.2	926	08

Wall Recessed LED Pool Light

HX180B-S18
Symmetrical



Warning:

Must be installed underwater to prevent being damaged from over heating.

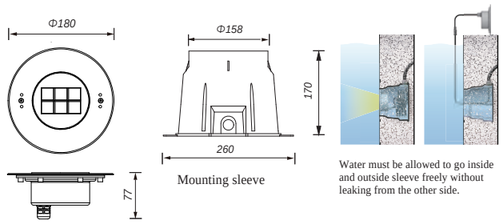
DESCRIPTION

The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool.
The HX180B is ideal for lighting wading pools and spas as well as water displays up to a 5-metre spray height.
Its robust construction allows it to be installed in walls and on floors.
All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



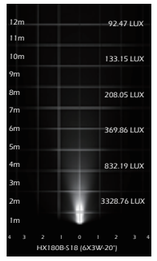
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: step tempered glass. T=8mm
- Gasket: silicone gasket
- Optional lens angle:20°, 30°, 50°
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- LED colour temperature: 2,000K•3,000K•6,000K
- LED Driver: Constant Voltage Input, Constant Current Output
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Built-in overheat sensor system: automatic shutdown at 75℃
- Mounting sleeve: PC/ABS ALLOYS
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V) Vert.Spread:26.2	Beam Width (H) Horiz.Spread:20.9
2m	3328.76 LUX		0.7m	0.9m
4m	832.19 LUX		1.5m	1.9m
6m	369.86 LUX		2.2m	2.8m
8m	208.05 LUX		2.9m	3.7m
10m	133.15 LUX		3.7m	4.6m
12m	92.47 LUX		4.4m	5.6m

SLEEVE (Included)



A Water stopper (Included)
The luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into theluminaire. That's why the device is needed to prevent the water vapor go in.

B IP68 Jiffy quick plug/socket connector (Option)
To prevent water vapor into luminaire via wire which had been cut, the air contains lots of steams when raining, spray or in humid environment, the luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into the luminaire.

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX180B-S18	6x3W	20°	24V DC	1020	24.5	1354	08

Wall Recessed LED Pool Light

HX180B-12T
Symmetrical

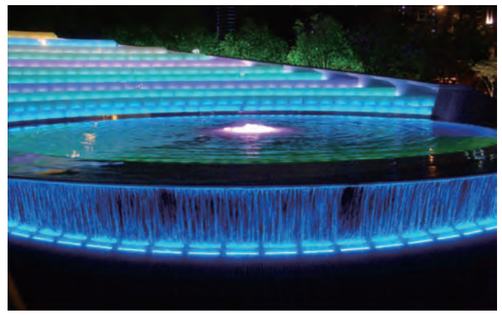


Warning:

Must be installed underwater to prevent being damaged from over heating.

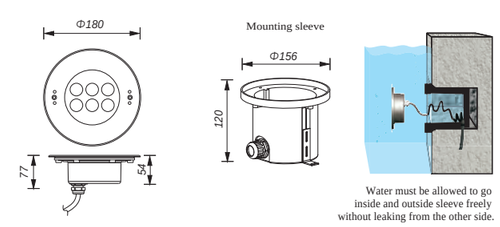
DESCRIPTION

The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool.
The HX180B is ideal for lighting wading pools and spas as well as water displays up to a 5-metre spray height. Its robust construction allows it to be installed in walls and on floors.
All NOVA LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



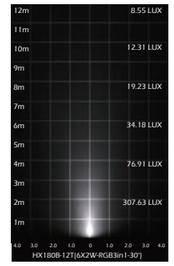
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: step tempered glass. T=8mm
- Gasket: silicone gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃, less than 1 meter depth
- Mounting sleeve: PC/ABS ALLOYS
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	307.63 LUX		1.0m	1.0m
4m	76.91 LUX		2.0m	2.0m
6m	34.18 LUX		3.0m	2.5m
8m	19.23 LUX		4.0m	3.5m
10m	12.31 LUX		5.0m	4.5m
12m	8.55 LUX		6.0m	5.5m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX180B-12T	6x2W RGB 3in1 Full color	30°	24V DC	R=300 G=350 B=350	24	547	08

Wall Recessed LED Pool Light

HX180B-S18E

Asymmetrical

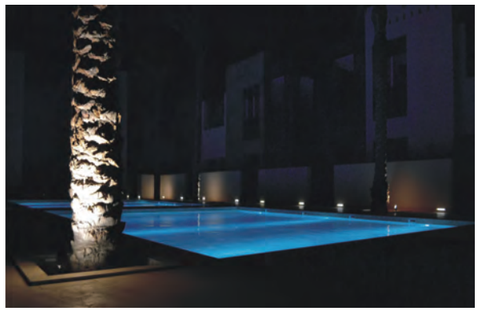


Warning:

Must be installed underwater to prevent being damaged from over heating.

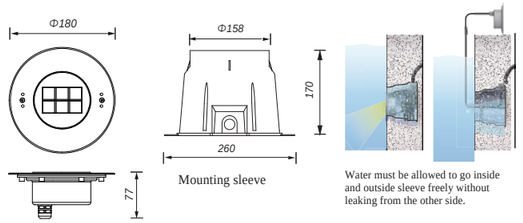
DESCRIPTION

The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool.
The HX180B is ideal for lighting wading pools and spas as well as water displays up to a 5-metre spray height.
Its robust construction allows it to be installed in walls and on floors.
All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



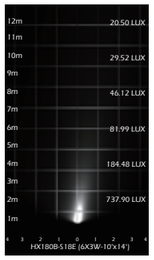
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: step tempered glass. T=8mm
- Gasket: silicone gasket
- Optional lens angle:10°×14°, 21°×29°
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- LED colour temperature: 2,000K•3,000K•6,000K
- LED Driver: Constant Voltage Input, Constant Current Output
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Built-in overheat sensor system: automatic shutdown at 75℃
- Recessed sleeve: PC/ABS ALLOYS
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V) Vert.Spread:27.1	Beam Width (H) Horiz.Spread:22.1
2m	737.9 LUX		0.8m	1.0m
4m	184.48 LUX		1.6m	1.9m
6m	81.99 LUX		2.3m	2.9m
8m	46.12 LUX		3.1m	3.9m
10m	29.52 LUX		3.9m	4.8m
12m	20.5 LUX		4.7m	5.8m

SLEEVE (Included)



A Water stopper (Included)
The luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into theluminaire. That's why the device is needed to prevent the water vapor go in.

B IP68 Jiffy quick plug/socket connector (Option)
To prevent water vapor into luminaire via wire which had been cut, the air contains lots of steams when raining, spray or in humid environment, the luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into the luminaire.

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX180B-S18E	6x3W	21°×29°	24V DC	1020	24.5	1210	08

UNDERWATER LED LIGHTING SERIES

Wall Recessed LED Pool Light

HX205B-S36

Symmetrical



Warning:

Must be installed underwater to prevent being damaged from over heating.

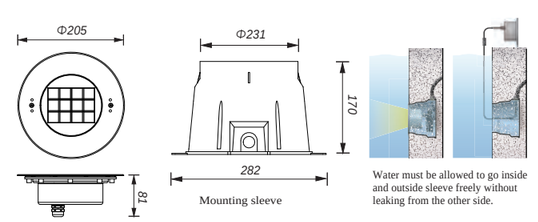
DESCRIPTION

The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool. With a power consumption of only 36W, the HX205B provides powerful yet efficient illumination for swimming pools as well as water displays up to a 8-metre spray height. Its robust construction allows it to be installed in walls and on floors.
All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



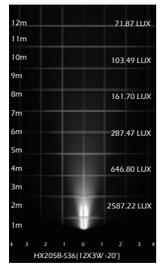
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: step tempered glass. T=10mm
- Gasket: silicone gasket
- Optional lens angle:20°, 30°, 45°
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- LED colour temperature: 2,000K•3,000K•6,000K
- LED Driver: Constant Voltage Input, Constant Current Output
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Built-in overheat sensor system: automatic shutdown at 75℃
- Recessed sleeve: PC/ABS ALLOYS
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V) Vert.Spread:22.5	Beam Width (H) Horiz.Spread:23.5
2m	2587.22 LUX		0.8m	0.8m
4m	646.80 LUX		1.7m	1.6m
6m	287.47 LUX		2.5m	2.4m
8m	161.70 LUX		3.3m	3.2m
10m	103.49 LUX		4.2m	4.0m
12m	71.87 LUX		5.0m	4.8m

SLEEVE (Included)



A Water stopper (Included)
The luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into theluminaire. That's why the device is needed to prevent the water vapor go in.

B IP68 Jiffy quick plug/socket connector (Option)
To prevent water vapor into luminaire via wire which had been cut, the air contains lots of steams when raining, spray or in humid environment, the luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into the luminaire.

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX205B-S36	12x3W	20°	24V DC	1520	36.5	2522	08

Wall Recessed LED Pool Light

HX205B-24T
Symmetrical



Warning:

Must be installed underwater to prevent being damaged from over heating.

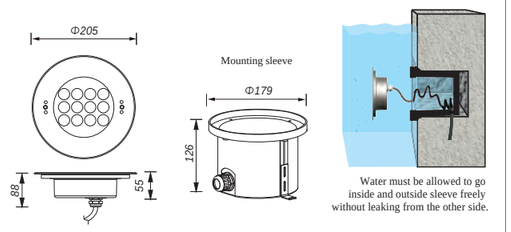
DESCRIPTION

The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool.
With a power consumption of only 24W, the HX205B provides powerful yet efficient illumination for swimming pools as well as water displays up to a 8-metre spray height. Its robust construction allows it to be installed in walls and on floors.
All NOVA LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



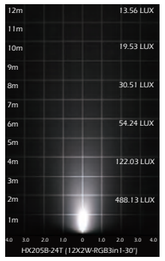
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: step tempered glass. T=10mm
- Gasket: silicone gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Mounting sleeve: PC/ABS ALLOYS
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	488.13 LUX		1.0m	1.0m
4m	122.03 LUX		2.0m	2.0m
6m	54.24 LUX		3.1m	3.0m
8m	30.51 LUX		4.1m	4.0m
10m	19.53 LUX		5.1m	5.0m
12m	13.56 LUX		6.1m	6.0m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX205B-24T	12x2W RGB 3in1 Full color	30°	24V DC	R=400 G=500 B=500	33.6	805	08

Wall Recessed LED Pool Light

HX205B-S36E
Asymmetrical

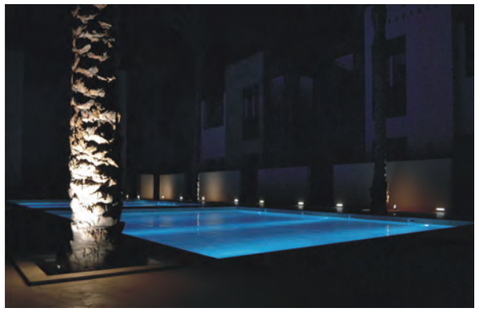


Warning:

Must be installed underwater to prevent being damaged from over heating.

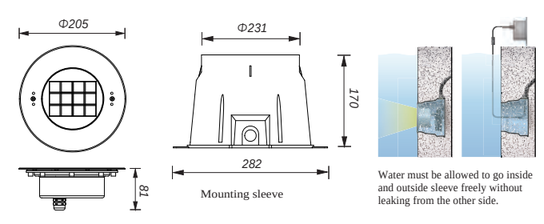
DESCRIPTION

The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool. With a power consumption of only 36W, the HX205B provides powerful yet efficient illumination for swimming pools as well as water displays up to a 8-metre spray height. Its robust construction allows it to be installed in walls and on floors.
All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



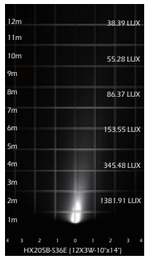
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: step tempered glass. T=8mm
- Gasket: silicone gasket
- Optional lens angle:10°×14°, 21°×29°
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- LED colour temperature: 2,000K•3,000K•6,000K
- LED Driver: Constant Voltage Input, Constant Current Output
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Built-in overheat sensor system: automatic shutdown at 75℃
- Mounting sleeve: PC/ABS ALLOYS
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V) Vert.Spread:26.5	Beam Width (H) Horiz.Spread:21.9
2m	1381.91 LUX		0.8m	0.9m
4m	345.48 LUX		1.5m	1.9m
6m	153.55 LUX		2.3m	2.8m
8m	86.37 LUX		3.1m	3.8m
10m	55.28 LUX		3.9m	4.7m
12m	38.39 LUX		4.6m	5.6m

#

SLEEVE (Included)



A Water stopper (Included)
The luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into theluminaire. That's why the device is needed to prevent the water vapor go in.

B IP68 Jiffy quick plug/socket connector (Option)
To prevent water vapor into luminaire via wire which had been cut, the air contains lots of steams when raining, spray or in humid environment, the luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into the luminaire.

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX205B-S36E	12x3W	21°×29°	24V DC	1520	36.5	2369	08

Wall Recessed LED Pool Light

HX250B-S60
Symmetrical



Warning:

Must be installed underwater to prevent being damaged from over heating.

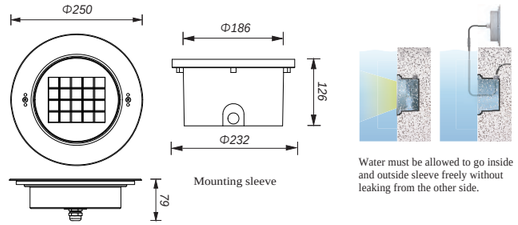
DESCRIPTION

The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool. With a power consumption of only 60W, the HX250B provides powerful yet efficient illumination for swimming pools as well as water displays up to a 8-metre spray height. Its robust construction allows it to be installed in walls and on floors.
All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



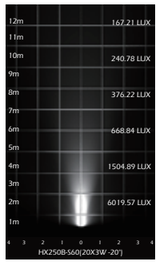
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: step tempered glass. T=10mm
- Gasket: silicone gasket
- Optional lens angle:20°, 30°, 45°
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- LED colour temperature: 2,000K•3,000K•6,000K
- LED Driver: Constant Voltage Input, Constant Current Output
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Built-in overheat sensor system: automatic shutdown at 75℃
- Mounting sleeve: PC/ABS ALLOYS
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V) Vert.Spread:22.6	Beam Width (H) Horiz.Spread:23.3
2m	6019.57 LUX		0.8m	0.8m
4m	1504.89 LUX		1.6m	1.6m
6m	668.84 LUX		2.5m	2.4m
8m	376.22 LUX		3.3m	3.2m
10m	240.78 LUX		4.1m	4.0m
12m	167.21 LUX		4.9m	4.8m

SLEEVE (Included)



A Water stopper (Included)
The luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into theluminaire. That's why the device is needed to prevent the water vapor go in.

B IP68 Jiffy quick plug/socket connector (Option)
To prevent water vapor into luminaire via wire which had been cut, the air contains lots of steams when raining, spray or in humid environment, the luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into the luminaire.

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (V)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX250B-S36	20x3W	20°	24V DC	3050	73.2	5561	10

UNDERWATER LED LIGHTING SERIES

Wall Recessed LED Pool Light

HX250B-36T
Symmetrical

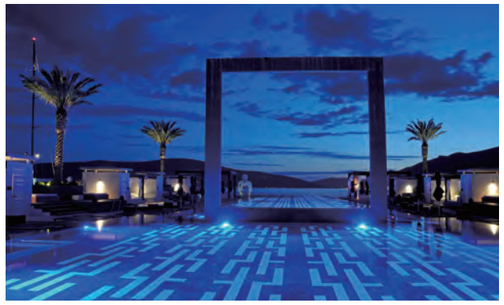


Warning:

Must be installed underwater to prevent being damaged from over heating.

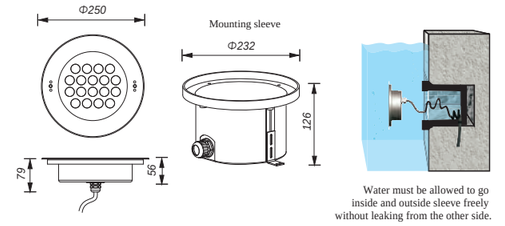
DESCRIPTION

The simple yet elegant design of the recessed LED underwater Light series adds a touch of refinement to any pool.
With a power consumption of only 36W, the HX250B provides powerful yet efficient illumination for swimming pools as well as water displays up to a 10-metre spray height. Its robust construction allows it to be installed in walls and on floors.
All NOVA LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



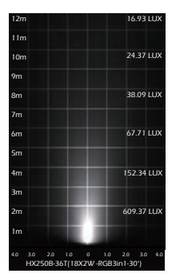
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: step tempered glass. T=10mm
- Gasket: silicone gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃, less than 1 meter depth
- Mounting sleeve: PC/ABS ALLOYS
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	609.37 LUX		1.0m	1.0m
4m	152.34 LUX		2.1m	1.9m
6m	67.71 LUX		3.1m	2.9m
8m	38.09 LUX		4.1m	3.8m
10m	24.37 LUX		5.1m	4.8m
12m	16.93 LUX		6.2m	5.8m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (V)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX250B-36T	18x2W RGB 3in1 Full color	30°	24V DC	R=630 G=770 B=770	52.0	1330	10

Wall Recessed LED Pool Light

HX250B-S60E

Asymmetrical



Warning:

Must be installed underwater to prevent being damaged from over heating.

DESCRIPTION

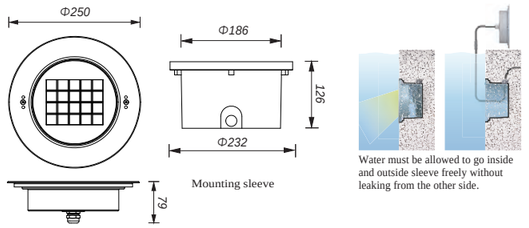
The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool. With a power consumption of only 60W, the HX250B provides powerful yet efficient illumination for swimming pools as well as water displays up to a 8-metre spray height. Its robust construction allows it to be installed in walls and on floors.

All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: step tempered glass. T=10mm
- Gasket: silicone gasket
- Optional lens angle:10°×14°, 21°×29°
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- LED colour temperature: 2,000K•3,000K•6,000K
- LED Driver: Constant Voltage Input, Constant Current Output
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Built-in overheat sensor system: automatic shutdown at 75℃
- Mounting sleeve: PC/ABS ALLOYS
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V) Vert.Spread:26.5	Beam Width (H) Horiz.Spread:21.9
2m	3328.76 LUX		0.7m	0.9m
4m	832.19 LUX		1.5m	1.9m
6m	369.86 LUX		2.2m	2.8m
8m	208.05 LUX		2.9m	3.7m
10m	133.15 LUX		3.7m	4.6m
12m	92.47 LUX		4.4m	5.6m

SLEEVE



A Water stopper (Included)
The luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into theluminaire. That's why the device is needed to prevent the water vapor go in.

B IP68 Jiffy quick plug/socket connector (Option)
To prevent water vapor into luminaire via wire which had been cut, the air contains lots of steams when raining, spray or in humid environment, the luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into the luminaire.

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX250B-S60E	20x3W	21°×29°	24V DC	3050	73.2	5166	10

UNDERWATER LED LIGHTING SERIES

Wall Recessed LED Pool Light

HX355BL-S18

Symmetrical



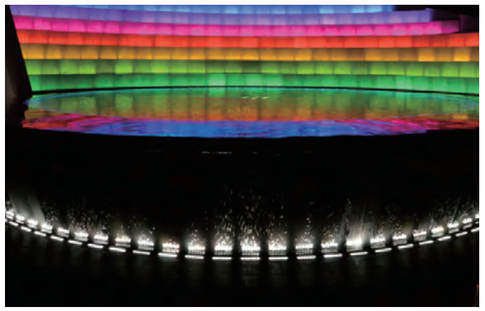
Warning:

Must be installed underwater to prevent being damaged from over heating.

DESCRIPTION

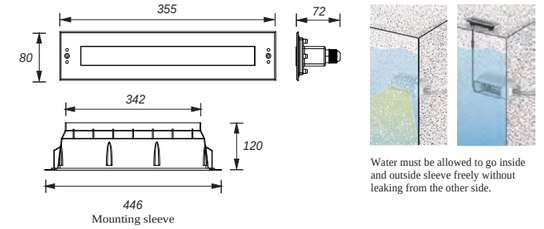
The linear design of the recessed LED underwater light series opens up new possibilities when lighting your pool. The HX355BL is the answer when you need even and discreet illumination. Completely unobtrusive when recessed into the walls. It is ideal when used to provide added illumination where it is need most such as at the pool's stairs or along infinity edges.

All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



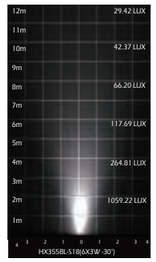
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: PC
- Gasket: silicone gasket
- Optional lens angle:8° , 13° , 25° , 30°
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- LED colour temperature: 2,000K•3,000K•6,000K
- LED Driver: Constant Voltage Input, Constant Current Output
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Mounting sleeve: PC/ABS ALLOYS
- Cable gland: IP-68 PG-9 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V) Vert.Spread:27.6	Beam Width (H) Horiz.Spread:27.8
2m	1059.22 LUX		1.0m	1.0m
4m	264.81 LUX		2.0m	2.0m
6m	117.69 LUX		2.9m	3.0m
8m	66.20 LUX		3.0m	4.0m
10m	42.37 LUX		4.9m	4.9m
12m	29.42 LUX		5.9m	5.9m

SLEEVE (Included)



A Water stopper (Included)
The luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into theluminaire. That's why the device is needed to prevent the water vapor go in.

B IP68 Jiffy quick plug/socket connector (Option)
To prevent water vapor into luminaire via wire which had been cut, the air contains lots of steams when raining, spray or in humid environment, the luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into the luminaire.

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX355BL-S18	6x3W	30°	24V DC	950	22.8	Cool White=1578 Warm White=1324	10

Wall Recessed LED Pool Light

HX355BL-S18E

Asymmetrical



Warning:

Must be installed underwater to prevent being damaged from over heating.

DESCRIPTION

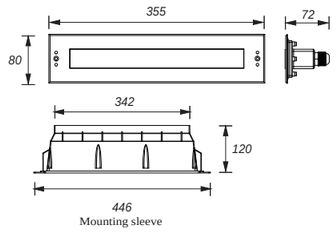
The linear design of the recessed LED underwater light series opens up new possibilities when lighting your pool. The HX355BL is the answer when you need even and discreet illumination. Completely unobtrusive when recessed into the walls. It is ideal when used to provide added illumination where it is need most such as at the pool's stairs or along infinity edges.

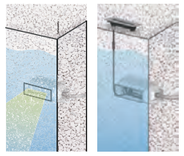
All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



DIMENSIONS

Unit: mm

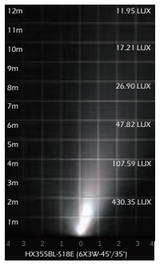




Water must be allowed to go inside and outside sleeve freely without leaking from the other side.

SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: PC
- Gasket: silicone gasket
- Optional lens angle:45/35°
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- LED colour temperature: 2,000K•3,000K•6,000K
- LED Driver: Constant Voltage Input, Constant Current Output
- Application environment: Temperature of water between -20℃~40℃ less than 1 meter depth
- Mounting sleeve: PC/ABS ALLOYS
- Cable gland: IP-68 PG-9 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V) Vert.Spread:24.2	Beam Width (H) Horiz.Spread:27.2
2m	430.35 LUX		0.9m	1.0m
4m	107.59 LUX		1.7m	1.9m
6m	47.82 LUX		2.6m	2.9m
8m	26.90 LUX		3.4m	3.9m
10m	17.21 LUX		4.3m	4.8m
12m	11.95 LUX		5.1m	5.8m

SLEEVE (Included)



A Water stopper (Included)
The luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into the luminaire. That's why the device is needed to prevent the water vapor go in.

B IP68 Jiffy quick plug/socket connector (Option)
To prevent water vapor into luminaire via wire which had been cut, the air contains lots of steams when raining, spray or in humid environment, the luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into the luminaire.

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX355BL-S18E	6x3 W	45°/35°	24V DC	950	22.8	Cool white=1280 Warm white=1102	09

Fountain LED Ring Light

HX149R-18



Warning:

Must be installed underwater to prevent being damaged from over heating.

DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.

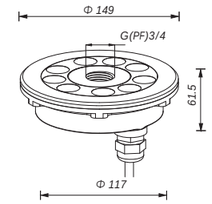
The ring lights HX149R sports a G 3/4"threaded connection at its centre where a nozzle can be directly attached. With a 8mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.

All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



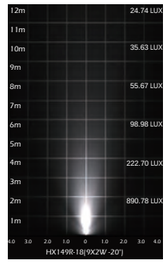
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Housing: hard chrome plated molding shaped stainless steel SUS 316
- Front cover: hard chrome plated stainless steel SUS 316L
- Light Window: step tempered glass. T=8mm
- Gasket: silicone gasket
- PCB: Excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: Temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	890.78 LUX		0.8m	0.7m
4m	222.70 LUX		1.6m	1.5m
6m	98.98 LUX		2.4m	2.2m
8m	55.67 LUX		3.2m	3.0m
10m	35.63 LUX		4.0m	3.7m
12m	24.74 LUX		4.7m	4.4m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX149R-18	9x2W	20°	24V DC	646	15.5	Cool white=1317 Warm white=1054	09

Fountain LED Ring Light

HX149R-18T



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

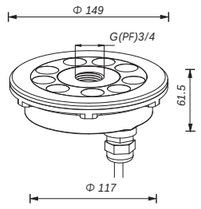
DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.
The ring lights HX149R sports a G 3/4”threaded connection at its centre where a nozzle can be directly attached. With a 8mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.
All NOVA LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



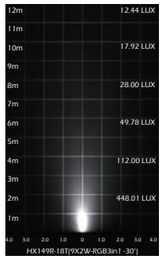
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Housing: hard chrome plated molding shaped stainless steel SUS 316
- Front cover: hard chrome plated stainless steel SUS 316L
- Light Window: step tempered glass. T=8mm
- Gasket: silicone gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	448.01 LUX		1.0m	0.9m
4m	112.00 LUX		1.9m	1.9m
6m	49.78 LUX		2.9m	2.8m
8m	28.00 LUX		3.9m	3.8m
10m	17.92 LUX		4.9m	4.7m
12m	12.44 LUX		5.8m	5.7m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX149R-18T	9x2W RGB 3in1 Full color	30°	24V DC	R=300 G=375 B=375	25.2	580	09

UNDERWATER LED LIGHTING SERIES

Fountain LED Ring Light

HX149R-12QD



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

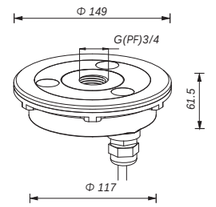
DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.
The ring lights HX149R sports a G 3/4”threaded connection at its centre where a nozzle can be directly attached. With a 8mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.
RDM function: DMX address to be read and written. Provide operating voltage, current and temperature of light. Provide basic data such as supplier information.



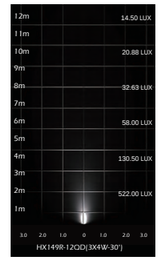
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Housing: hard chrome plated molding shaped stainless steel SUS 316
- Front cover: hard chrome plated stainless steel SUS 316L
- Light Window: step tempered glass. T=8mm
- Gasket: silicone gasket
- PCB: Excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: Temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-13.5 copper with nickel-coated
- Power cable: 3m STW 18AWG
- Signal type: DMX512/RDM signal



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	522.00 LUX		1.0m	1.0m
4m	130.50 LUX		2.0m	2.0m
6m	58.00 LUX		3.0m	3.0m
8m	32.63 LUX		4.0m	4.0m
10m	20.88 LUX		5.0m	5.0m
12m	14.50 LUX		6.0m	6.1m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX149R-12QD	3x4W RGBW 4in1 Full color	30°	24V DC	520	12.5	438	09

Fountain LED Ring Light

HX170R-18

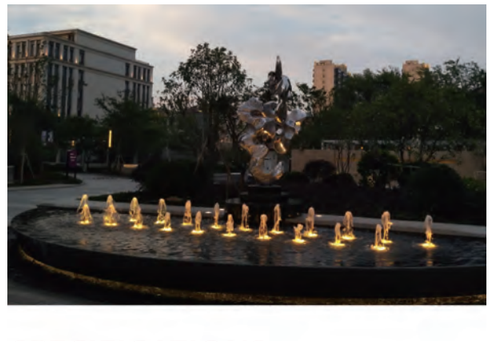


Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

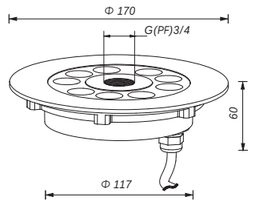
DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.
The ring lights HX170R sports a G 3/4”threaded connection at its centre where a nozzle can be directly attached. With a 8mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.
All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



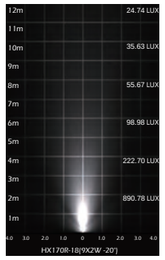
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Housing: hard chrome plated molding shaped stainless steel SUS 316
- Front cover: hard chrome plated stainless steel SUS 316L
- Light Window: step tempered glass. T=8mm
- Gasket: silicone gasket
- PCB: Excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: Temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	890.78 LUX		0.8m	0.7m
4m	222.70 LUX		1.6m	1.5m
6m	98.98 LUX		2.4m	2.2m
8m	55.67 LUX		3.2m	3.0m
10m	35.63 LUX		4.0m	3.7m
12m	24.74 LUX		4.7m	4.4m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX170R-18	9x2W	20°	24V DC	646	15.5	Cool white=1317 Warm white=1054	09

UNDERWATER LED LIGHTING SERIES

Fountain LED Ring Light

HX170R-18T

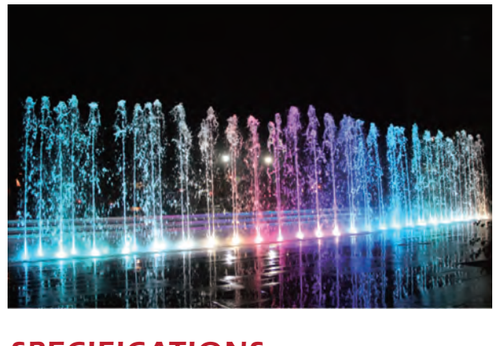


Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

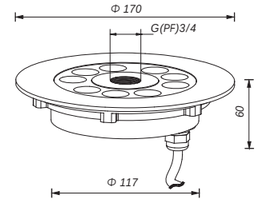
DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.
The ring lights HX170R sports a G 3/4”threaded connection at its centre where a nozzle can be directly attached. With a 8mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.
All NOVA LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



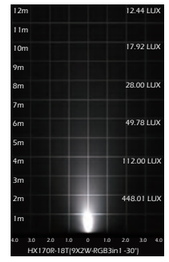
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Housing: hard chrome plated molding shaped stainless steel SUS 316
- Front cover: hard chrome plated stainless steel SUS 316L
- Light Window: step tempered glass. T=8mm
- Gasket: silicone gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	448.01 LUX		1.0m	0.9m
4m	112.00 LUX		1.9m	1.9m
6m	49.78 LUX		2.9m	2.8m
8m	28.00 LUX		3.9m	3.8m
10m	17.92 LUX		4.9m	4.7m
12m	12.44 LUX		5.8m	5.7m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX170R-18T	9x2W RGB 3in1 Full color	30°	24V DC	R=300 G=375 B=375	25.2	580	09

Fountain LED Ring Light

HX170R-12QD

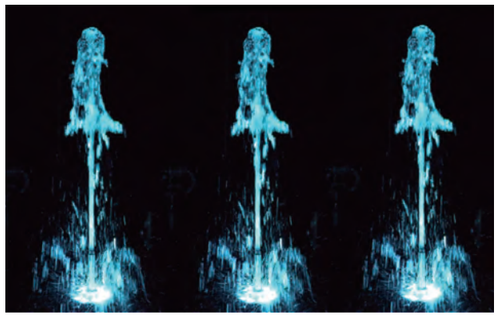


Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

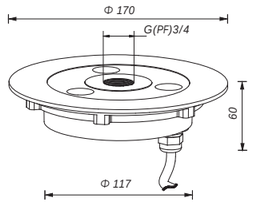
DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.
The ring lights HX170R sports a G 3/4”threaded connection at its centre where a nozzle can be directly attached. With a 8mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.
RDM function: DMX address to be read and written. Provide operating voltage, current and temperature of light. Provide basic data such as supplier information.



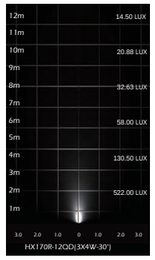
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Housing: hard chrome plated molding shaped stainless steel SUS 316
- Front cover: hard chrome plated stainless steel SUS 316L
- Light Window: step tempered glass. T=8mm
- Gasket: silicone gasket
- PCB: Excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: Temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-13.5 copper with nickel-coated
- Power cable: 3m STW 18AWG
- Signal type: DMX512/RDM signal



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	522.00 LUX		1.0m	1.0m
4m	130.50 LUX		2.0m	2.0m
6m	58.00 LUX		3.0m	3.0m
8m	32.63 LUX		4.0m	4.0m
10m	20.88 LUX		5.0m	5.0m
12m	14.50 LUX		6.0m	6.1m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX170R-12QD	3x4W RGBW 4in1 Full color	30°	24V DC	520	12.5	438	09

Fountain LED Ring Light

HX182R-24



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

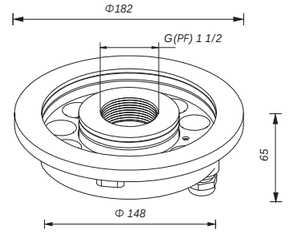
DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.
The ring lights HX182R sports a G1 1/2”threaded connection at its centre where a nozzle can be directly attached. With a 10mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.
All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



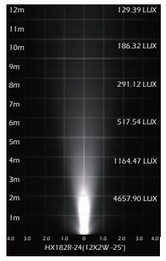
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Housing: hard chrome plated molding shaped stainless steel SUS 316
- Front cover: hard chrome plated stainless steel SUS 316L
- Light Window: step tempered glass. T=10mm
- Gasket: silicone gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	4657.90 LUX		0.5m	0.5m
4m	1164.47 LUX		1.1m	1.0m
6m	517.54 LUX		1.6m	1.6m
8m	291.12 LUX		2.2m	2.1m
10m	186.32 LUX		2.7m	2.6m
12m	129.39 LUX		3.3m	3.1m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX182R-24	12x2W	25°	24V DC	1200	28.8	Cool white=2067 Warm white=1610	09

Fountain LED Ring Light

HX182R-36T



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

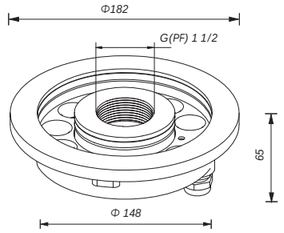
DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.
The ring lights HX182R sports a G1 1/2”threaded connection at its centre where a nozzle can be directly attached. With a 10mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.
All NOVA LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



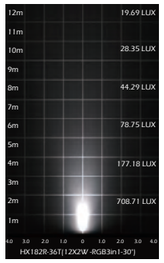
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Housing: hard chrome plated molding shaped stainless steel SUS 316
- Front cover: hard chrome plated stainless steel SUS 316L
- Light Window: step tempered glass. T=10mm
- Gasket: silicone gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	708.71 LUX		0.9m	1.0m
4m	177.18 LUX		1.9m	1.9m
6m	78.75 LUX		2.8m	2.9m
8m	44.29 LUX		3.8m	3.8m
10m	28.35 LUX		4.7m	4.8m
12m	19.69 LUX		5.7m	5.7m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX182R-36T	12x2W RGB 3in1 Full color	30°	24V DC	R=400 G=500 B=500	33.6	924	09

UNDERWATER LED LIGHTING SERIES

Fountain LED Ring Light

HX182R-24QD



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

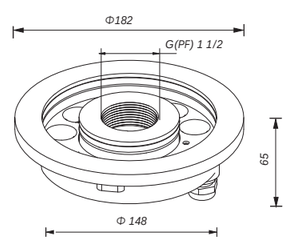
DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.
The ring lights HX182R sports a G1 1/2”threaded connection at its centre where a nozzle can be directly attached. With a 10mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.
RDM function: DMX address to be read and written. Provide operating voltage, current and temperature of light. Provide basic data such as supplier information.



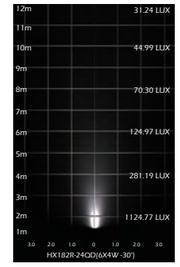
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Housing: hard chrome plated molding shaped stainless steel SUS 316
- Front cover: hard chrome plated stainless steel SUS 316L
- Light Window: step tempered glass. T=10mm
- Gasket: EPDM gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-13.5 copper with nickel-coated
- Power cable: 3m STW 18AWG
- Signal type: DMX512/RDM signal



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	1124.77 LUX		0.8m	0.8m
4m	281.19 LUX		1.6m	1.7m
6m	124.97 LUX		2.4m	2.5m
8m	70.30 LUX		3.3m	3.3m
10m	44.99 LUX		4.1m	4.1m
12m	31.24 LUX		4.9m	5.0m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX182R-24QD	6x4W RGBW 4in1 Full color	30°	24V DC	1083	26	1208	09

Fountain LED Ring Light

HX200R-24



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

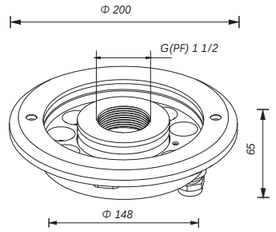
DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.
The ring lights HX200R sports a G1 1/2”threaded connection at its centre where a nozzle can be directly attached. With a 10mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.
All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



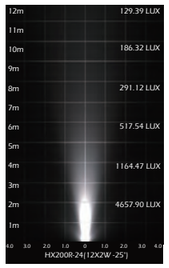
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Housing: hard chrome plated molding shaped stainless steel SUS 316
- Front cover: hard chrome plated stainless steel SUS 316L
- Light Window: step tempered glass. T=10mm
- Gasket: silicone gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	4657.90 LUX		0.5m	0.5m
4m	1164.47 LUX		1.1m	1.0m
6m	517.54 LUX		1.6m	1.6m
8m	291.12 LUX		2.2m	2.1m
10m	186.32 LUX		2.7m	2.6m
12m	129.39 LUX		3.3m	3.1m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX200R-24	12x2W	25°	24V DC	1200	28.8	Cool white=2067 Warm white=1610	09

Fountain LED ring Light

HX200R-36T



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

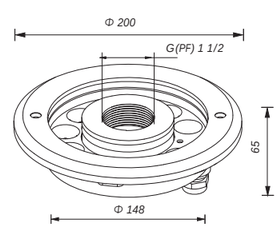
DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.
The ring lights HX200R sports a G1 1/2”threaded connection at its centre where a nozzle can be directly attached. With a 10mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.
All NOVA LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



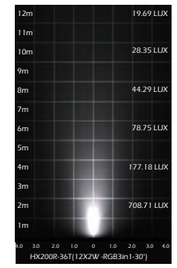
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Housing: hard chrome plated molding shaped stainless steel SUS 316
- Front cover: hard chrome plated stainless steel SUS 316L
- Light Window: step tempered glass. T=10mm
- Gasket: silicone gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	708.71 LUX		0.9m	1.0m
4m	177.18 LUX		1.9m	1.9m
6m	78.75 LUX		2.8m	2.9m
8m	44.29 LUX		3.8m	3.8m
10m	28.35 LUX		4.7m	4.8m
12m	19.69 LUX		5.7m	5.7m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX200R-36T	12x2W RGB 3in1 Full color	30°	24V DC	R=400 G=500 B=500	33.6	924	09

Fountain LED ring Light

HX200R-24QD



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

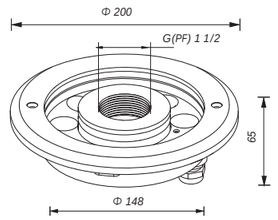
DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.
The ring lights HX200R sports a G1 1/2”threaded connection at its centre where a nozzle can be directly attached. With a 10mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.
RDM function: DMX address to be read and written. Provide operating voltage, current and temperature of light. Provide basic data such as supplier information.



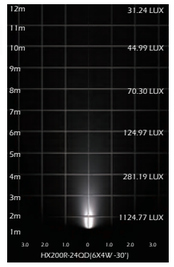
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Housing: hard chrome plated molding shaped stainless steel SUS 316
- Front cover: hard chrome plated stainless steel SUS 316L
- Light Window: step tempered glass. T=10mm
- Gasket: EPDM gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-13.5 copper with nickel-coated
- Power cable: 3m STW 18AWG
- Signal type: DMX512/RDM signal



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	1124.77 LUX		0.8m	0.8m
4m	281.19 LUX		1.6m	1.7m
6m	124.97 LUX		2.4m	2.5m
8m	70.30 LUX		3.3m	3.3m
10m	44.99 LUX		4.1m	4.1m
12m	31.24 LUX		4.9m	5.0m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX200R-24QD	6x4W RGBW 4in1 Full color	30°	24V DC	1083	26	1208	09

Underwater LED Spot Light

HX57T-6/HX57T-4QD



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

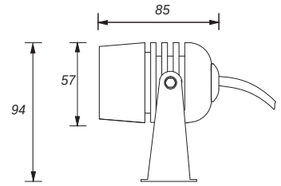
DESCRIPTION

The underwater spot light series is your solution to tight spaces. Whether installed free-standing or standing, the HX57T provides sufficient illumination for most residential and indoor water features.
This compact fixture allows it to be easily hidden from sight or even integrated with the hardscape to achieve better ambience.
All NOVA LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover： hard chrome plated stainless steel SUS 316
- Light Window: high-strength ultra-white tempered glass
- Gasket: silicone gasket
- Application environment: temperature of water between -20℃~50℃
- Power cable: 0.5m RVV 2x1mm²/ 5x1mm²
- Signal type: DMX512（HX57T-4QD）

Illuminance at a distance （HX57T-6,3000K）

Distance (m)	Center Beam (lux)	Angle (15°)	Beam Width (V)	Beam Width (H)
2m	1334 lux		0.45m	0.45m
4m	336 lux		0.98m	0.98m
6m	148 lux		1.35m	1.35m
8m	83 lux		1.85m	1.85m

Illuminance at a distance （HX57T-6,3000K）

Distance (m)	Center Beam (lux)	Angle (24°)	Beam Width (V)	Beam Width (H)
2m	777 lux		0.77m	0.77m
4m	194 lux		1.41m	1.41m
6m	86 lux		2.15m	2.15m
8m	49 lux		2.85m	2.85m

PERFORMANCE

Type	Light source	Color	The manufacturer selected lens degree (Θ1/2)	Input voltage (v)	Weight
HX57T-6	1x6W	3000K/6000K	15°/24°/36°/50°	24V DC	0.7 kg
HX57T-4QD	1x4W	RGBW	15°/24°/36°/50°	24V DC	0.7 kg

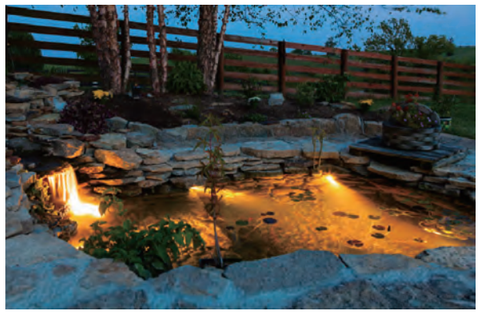
Underwater LED Spot Light

HX60TH-3



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

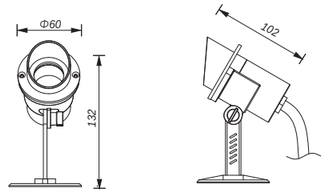


DESCRIPTION

The underwater spot light series is your solution to tight spaces. Whether installed free-standing or standing, the HX60TH provides sufficient illumination for most residential and indoor water features.
This compact fixture allows it to be easily hidden from sight or even integrated with the hardscape to achieve better ambience.
All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.

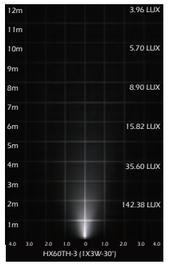
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316
- Light Window: step tempered glass. T=7mm
- Gasket: EPDM gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 M16a copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	142.38 LUX		1.0m	1.0m
4m	35.60 LUX		1.9m	1.9m
6m	15.82 LUX		2.9m	2.9m
8m	8.90 LUX		3.8m	3.8m
10m	5.70 LUX		4.8m	4.8m
12m	3.96 LUX		5.8m	5.7m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX60TH-3	1x3W	30°	24V DC	110	2.6	Cool white= 174 Warm white= 139	06

UNDERWATER LED LIGHTING SERIES

Underwater LED Spot Light

HX60TH-3T



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

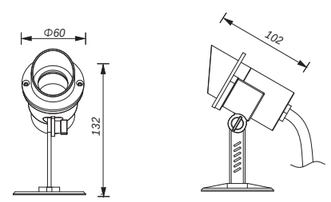


DESCRIPTION

The underwater spot light series is your solution to tight spaces. Whether installed free-standing or standing, the HX60TH provides sufficient illumination for most residential and indoor water features.
This compact fixture allows it to be easily hidden from sight or even integrated with the hardscape to achieve better ambience.
All NOVA LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.

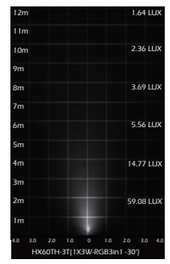
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316
- Light Window: step tempered glass. T=7mm
- Gasket: EPDM gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 M16a copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	59.08 LUX		1.0m	1.0m
4m	14.77 LUX		2.1m	2.0m
6m	5.56 LUX		3.1m	3.0m
8m	3.69 LUX		4.2m	4.0m
10m	2.36 LUX		5.2m	5.0m
12m	1.64 LUX		6.2m	6.0m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX60TH-3T	1x3W RGB 3in1 Full color	30°	24V DC	R= 48 G= 62 B= 62	4.1	103	06

Underwater LED Spot Light

HX69T-3



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

DESCRIPTION

The underwater spot light series is your solution to tight spaces. Whether installed free-standing or standing, the HX69T provides sufficient illumination for most residential and indoor water features.

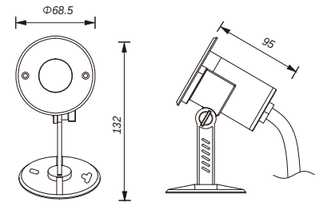
This compact fixture allows it to be easily hidden from sight or even integrated with the hardscape to achieve better ambience.

All NOVA LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



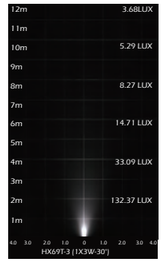
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316
- Light Window: step tempered glass. T=7mm
- Gasket: EPDM gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 M16a copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	132.37 LUX		1.1m	1.1m
4m	33.09 LUX		2.2m	2.1m
6m	14.71 LUX		3.3m	3.2m
8m	8.27 LUX		4.4m	4.3m
10m	5.29 LUX		5.5m	5.3m
12m	3.68 LUX		6.5m	6.4m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX69T-3	1x3W	30°	24V DC	110	2.6	Cool white=174 Warm white=139	06

UNDERWATER LED LIGHTING SERIES

Underwater LED Spot Light

HX69T-3T



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

DESCRIPTION

The underwater spot light series is your solution to tight spaces. Whether installed free-standing or standing, the HX69T provides sufficient illumination for most residential and indoor water features.

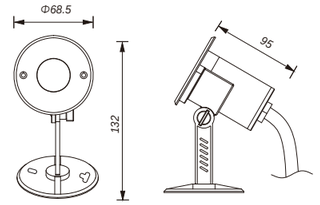
This compact fixture allows it to be easily hidden from sight or even integrated with the hardscape to achieve better ambience.

All NOVA LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



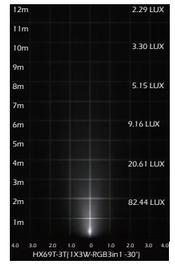
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316
- Light Window: step tempered glass. T=7mm
- Gasket: EPDM gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 M16a copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	82.44LUX		0.9m	0.9m
4m	20.61 LUX		1.8m	1.8m
6m	9.16 LUX		2.8m	2.7m
8m	5.15 LUX		3.7m	3.6m
10m	3.30 LUX		4.6m	4.6m
12m	2.29 LUX		5.5m	5.5m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX69T-3T	1x3W RGB 3in1 Full color	30°	24V DC	R=48 G=62 B=62	4.1	103	06

Underwater LED Spot Light

HX62T-4



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

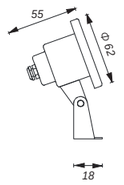
DESCRIPTION

The underwater spot light series is your solution to tight spaces. Whether installed free-standing or standing, the HX62T provides sufficient illumination for most residential and indoor water features.
This compact fixture allows it to be easily hidden from sight or even integrated with the hardscape to achieve better ambience.
All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316
- Light Window: high-strength ultra-white tempered glass
- Application environment: temperature of water between -20℃~50℃
- Power cable: 0.5m RVV 2x1mm²

Illuminance at a distance （HX62T-4,3000K）

Distance (m)	Center Beam (lux)	Angle (15°)	Beam Width (V)	Beam Width (H)
2m	605 lux		0.43m	0.43m
4m	151 lux		0.86m	0.86m
6m	67 lux		1.30m	1.30m
8m	38 lux		1.73m	1.73m

Illuminance at a distance （HX62T-4,3000K）

Distance (m)	Center Beam (lux)	Angle (25°)	Beam Width (V)	Beam Width (H)
2m	265 lux		0.75m	0.75m
4m	66 lux		1.50m	1.50m
6m	29 lux		2.26m	2.26m
8m	16 lux		3.01m	3.01m

PERFORMANCE

Type	Light source	Color	The manufacturer selected lens degree (Θ1/2)	Input voltage (V)	Weight
HX62T-4	1x4W	3000K/6000K	15°/25°/40°	24V DC	0.25 kg

UNDERWATER LED LIGHTING SERIES

Underwater LED Spot Light

HX86T-4/HX86T-4QD



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

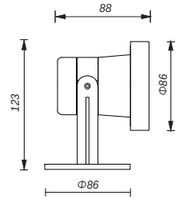
DESCRIPTION

The underwater spot light series is your solution to tight spaces. Whether installed free-standing or standing, the HX86T provides sufficient illumination for most residential and indoor water features.
This compact fixture allows it to be easily hidden from sight or even integrated with the hardscape to achieve better ambience.
All NOVA LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover： hard chrome plated molding shaped stainless steel SUS 316
- Light Window:high-strength ultra-white tempered glass
- Gasket: silicone gasket
- Application environment: temperature of water between -20℃~50℃
- Power cable: 0.5m RVV 2x1mm²/ 5x1mm²
- Signal type: DMX512（HX86T-4QD）

Illuminance at a distance （HX86T-4,3000K）

Distance (m)	Center Beam (lux)	Angle (15°)	Beam Width (V)	Beam Width (H)
2m	827 lux		0.52m	0.52m
4m	206 lux		1.04m	1.04m
6m	92 lux		1.56m	1.56m
8m	51 lux		2.09m	2.09m

Illuminance at a distance （HX86T-4,3000K）

Distance (m)	Center Beam (lux)	Angle (25°)	Beam Width (V)	Beam Width (H)
2m	292 lux		0.88m	0.88m
4m	73 lux		1.76m	1.76m
6m	32 lux		2.64m	2.64m
8m	18 lux		3.53m	3.53m

PERFORMANCE

Type	Light source	Color	The manufacturer selected lens degree (Θ1/2)	Input voltage (V)	Weight
HX86T-4	1x4W	3000K/6000K	10°/15°/25°/45°	24V DC	1.5 kg
HX86T-4QD	1x4W	RGBW	10°/15°/25°/45°	24V DC	1.5 kg

Underwater LED Spot Light

HX95T-6



DESCRIPTION

The underwater spot light series offers unparallel flexibility to match your creativity.
The sturdy tripod design does not topple easily even when water movement is very agitated.
If preferred, the fixture can also be fixed in place using just the mounting bracket.
All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.

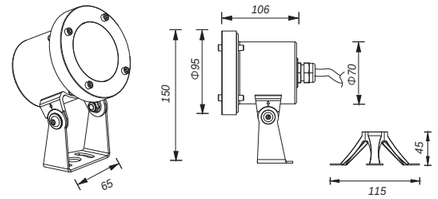
Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.



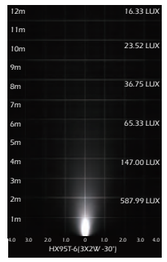
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: PMMA 8mm
- Gasket: silicone gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-oated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	587.99 LUX		0.9m	0.9m
4m	147.00 LUX		1.8m	1.8m
6m	65.33 LUX		2.8m	2.8m
8m	36.75 LUX		3.7m	3.7m
10m	23.52 LUX		4.6m	4.6m
12m	16.33 LUX		5.5m	5.5m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX95T-6	3x2W	30°	24V DC	320	7.7	Cool white=760 Warm white=674	10

UNDERWATER LED LIGHTING SERIES

Underwater LED Spot Light

HX95T-8



DESCRIPTION

The underwater spot light series offers unparallel flexibility to match your creativity.
The sturdy tripod design does not topple easily even when water movement is very agitated.
If preferred, the fixture can also be fixed in place using just the mounting bracket.
All NOVA LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.

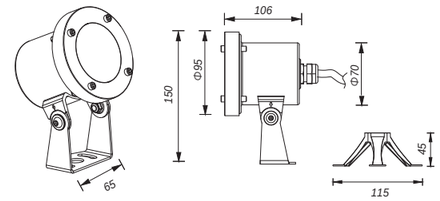
Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.



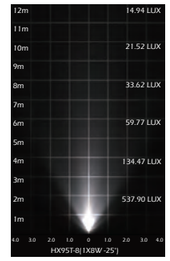
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: PMMA 8mm
- Gasket: silicone gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-oated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	537.90 LUX		0.8m	0.8m
4m	134.47 LUX		1.5m	1.5m
6m	59.77 LUX		2.3m	2.3m
8m	33.62 LUX		3.1m	3.0m
10m	21.52 LUX		3.8m	3.8m
12m	14.94 LUX		4.6m	4.6m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX95T-8	1×8W	25°	24V DC	340	8.1	Cool white=674 Warm white=625	10

Underwater LED Spot Light

HX95T-9T



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

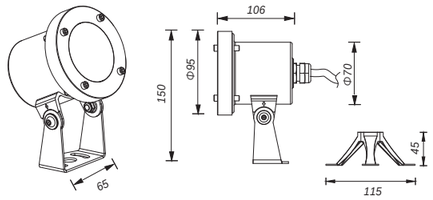
DESCRIPTION

The underwater spot light series offers unparallel flexibility to match your creativity.
The sturdy tripod design does not topple easily even when water movement is very agitated.
If preferred, the fixture can also be fixed in place using just the mounting bracket.
All NOVA LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



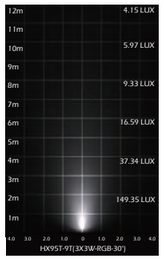
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: PMMA 8mm
- Gasket: EPDM gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-oated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	149.35 LUX		1.0m	1.0m
4m	37.34 LUX		1.9m	1.9m
6m	16.59 LUX		2.9m	2.9m
8m	9.33 LUX		3.9m	3.8m
10m	5.97 LUX		4.8m	4.8m
12m	4.15 LUX		5.8m	5.7m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX95T-9T	3x3W RGB 3in1 Full color	30°	24V DC	400	9.6	239	10

UNDERWATER LED LIGHTING SERIES

Underwater LED Spot Light

HX95T-9QD



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

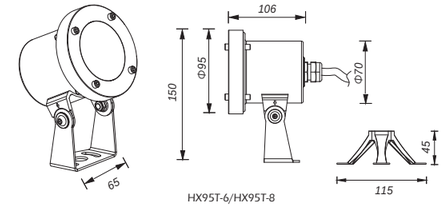
DESCRIPTION

The underwater spot light series offers unparallel flexibility to match your creativity.
The sturdy tripod design does not topple easily even when water movement is very agitated.
If preferred, the fixture can also be fixed in place using just the mounting bracket.
RDM function: DMX address to be read and written. Provide operating voltage, current and temperature of light. Provide basic data such as supplier information.



DIMENSIONS

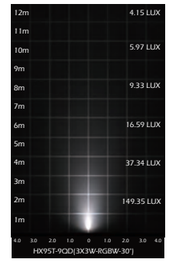
Unit: mm



HX95T-6/HX95T-8

SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: PMMA 8mm
- Gasket: EPDM gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- LED Driver: Constant Voltage Input, Constant Current Output
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Built-in Overheat Sensor System: Automatic Shutdown at 75°C
- Cable gland: IP-68 PG-11 copper with nickel- coated
- Power cable: H05RR-F 3m
- Signal type: DMX512/RDM signal



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	149.35 LUX		1.0m	1.0m
4m	37.34 LUX		1.9m	1.9m
6m	16.59 LUX		2.9m	2.9m
8m	9.33 LUX		3.9m	3.8m
10m	5.97 LUX		4.8m	4.8m
12m	4.15 LUX		5.8m	5.7m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX95T-9QD	3x3W RGBW 4in1	30°	24V DC	437	10.5	536	10

Underwater LED Spot Light

HX127T-18



DESCRIPTION

The underwater spot light series offers unparallel flexibility to match your creativity.
The sturdy tripod design does not topple easily even when water movement is very agitated.
If preferred, the fixture can also be fixed in place using just the mounting bracket.
All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.

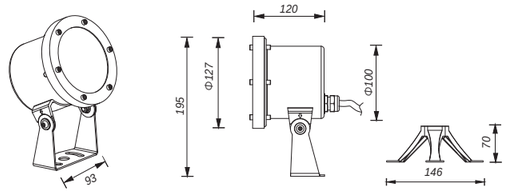
Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.



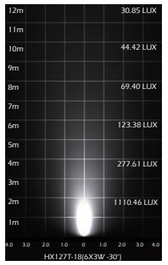
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: PMMA 8mm
- Gasket: silicone gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	1110.46 LUX		1.0m	1.0m
4m	277.61 LUX		2.0m	1.9m
6m	123.38 LUX		2.9m	2.9m
8m	69.40 LUX		3.9m	3.8m
10m	44.42 LUX		4.9m	4.8m
12m	30.85 LUX		5.9m	5.7m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX127T-18	6x3W	30°	24V DC	900	21.5	Cool white=1700 Warm white=1503	10

UNDERWATER LED LIGHTING SERIES

Underwater LED Spot Light

HX127T-16



DESCRIPTION

The underwater spot light series offers unparallel flexibility to match your creativity.
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All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.

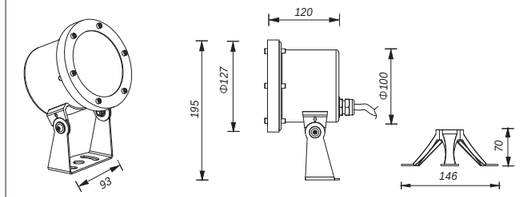
Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.



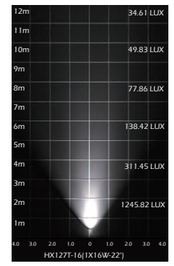
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: PMMA 8mm
- Gasket: silicone gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	1245.82 LUX		0.8m	0.8m
4m	311.45 LUX		1.7m	1.6m
6m	138.42 LUX		2.5m	2.5m
8m	77.86 LUX		3.3m	3.3m
10m	49.83 LUX		4.2m	4.1m
12m	34.61 LUX		5.0m	4.9m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX127T-16	1×16W	22°	24V DC	700	17.0	Cool white=1344 Warm white=1183	10

Underwater LED Spot Light

HX127T-18T



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

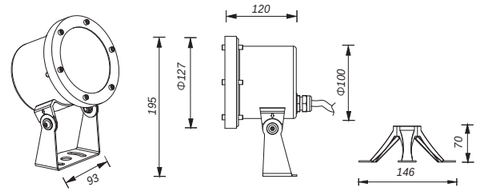
DESCRIPTION

The underwater spot light series offers unparallel flexibility to match your creativity.
The sturdy tripod design does not topple easily even when water movement is very agitated.
If preferred, the fixture can also be fixed in place using just the mounting bracket.
All NOVA LED lights can be programmed to dim, colour-change and synchronize to create infinite combinations of kaleidoscopic displays.



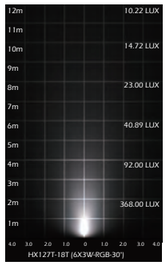
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: PMMA 8mm
- Gasket: EPDM gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	368.00 LUX		0.9m	0.9m
4m	92.00 LUX		1.9m	1.9m
6m	40.89 LUX		2.8m	2.8m
8m	23.00 LUX		3.8m	3.7m
10m	14.72 LUX		4.7m	4.7m
12m	10.22 LUX		5.7m	5.6m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX127T-18T	6x3W RGB 3in1	30°	24V DC	1000	24	528	10

UNDERWATER LED LIGHTING SERIES

Underwater LED Spot Light

HX127T-18QD



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

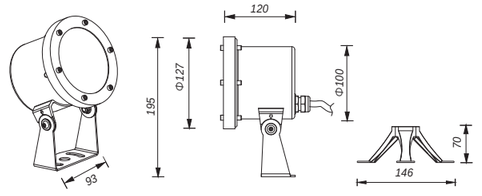
DESCRIPTION

The underwater spot light series offers unparallel flexibility to match your creativity.
The sturdy tripod design does not topple easily even when water movement is very agitated.
If preferred, the fixture can also be fixed in place using just the mounting bracket.
RDM function: DMX address to be read and written. Provide operating voltage, current and temperature of light. Provide basic data such as supplier information.



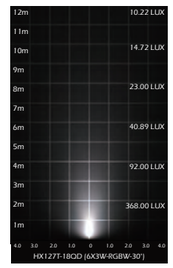
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: PMMA 8mm
- Gasket: EPDM gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- LED Driver： Constant Voltage Input, Constant Current Output
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Built-in Overheat Sensor System: Automatic Shutdown at 75°C
- Cable gland: IP-68 PG-11 copper with nickel- coated
- Power cable: H05RR-F 3m
- Signal type: DMX512/RDM signal



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	368.00 LUX		0.9m	0.9m
4m	92.00 LUX		1.9m	1.9m
6m	40.89 LUX		2.8m	2.8m
8m	23.00 LUX		3.8m	3.7m
10m	14.72 LUX		4.7m	4.7m
12m	10.22 LUX		5.7m	5.6m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX127T-18QD	6x3W RGBW 4in1	30°	24V DC	1000	24	1145	10

Underwater LED Spot Light

HX150T-36



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

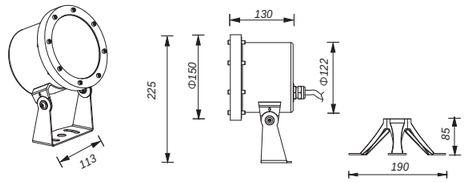
DESCRIPTION

The underwater spot light series offers unparallel flexibility to match your creativity.
The sturdy tripod design does not topple easily even when water movement is very agitated.
If preferred, the fixture can also be fixed in place using just the mounting bracket.
All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



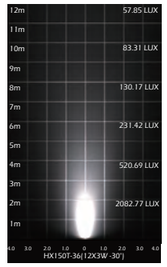
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: PMMA 8mm
- Gasket: silicone gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	2082.77 LUX		1.0m	0.9m
4m	520.69 LUX		1.9m	1.9m
6m	231.42 LUX		2.9m	2.8m
8m	130.17 LUX		3.9m	3.8m
10m	83.31 LUX		4.9m	4.7m
12m	57.85 LUX		5.8m	5.6m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX150T-36	12x3W	30°	24V DC	1600	38.4	Cool white=3031 Warm white=2668	10

Underwater LED Spot Light

HX150T-20



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

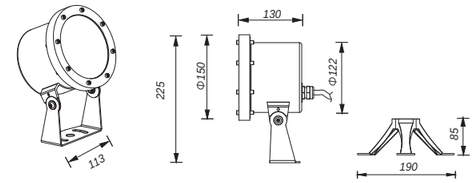
DESCRIPTION

The underwater spot light series offers unparallel flexibility to match your creativity.
The sturdy tripod design does not topple easily even when water movement is very agitated.
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All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



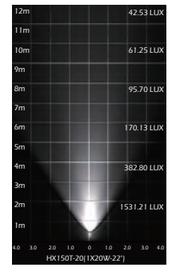
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: PMMA 8mm
- Gasket: silicone gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	1531.21 LUX		0.9m	0.8m
4m	382.80 LUX		1.7m	1.7m
6m	170.13 LUX		2.6m	2.5m
8m	95.70 LUX		3.4m	3.3m
10m	61.25 LUX		4.3m	4.2m
12m	42.53 LUX		5.2m	5.0m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX150T-20	1×20W	22°	24V DC	860	20.5	Cool white=1679 Warm white=1478	10

Underwater LED Spot Light

HX150T-30T



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

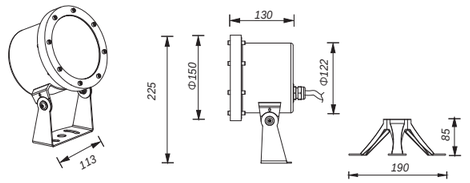
DESCRIPTION

The underwater spot light series offers unparallel flexibility to match your creativity.
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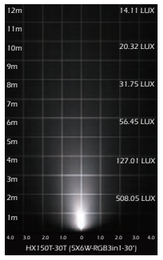
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: PMMA 8mm
- Gasket: EPDM gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	508.05 LUX		1.1m	1.1m
4m	127.01 LUX		2.1m	2.1m
6m	56.45 LUX		3.2m	3.2m
8m	31.75 LUX		4.3m	4.2m
10m	20.32 LUX		5.3m	5.3m
12m	14.11 LUX		6.4m	6.3m

PERFORMANCE

Order No.	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX150T-30T	6x5W RGB 3in1	30°	24V DC	1600	38.4	835	10

UNDERWATER LED LIGHTING SERIES

Underwater LED Spot Light

HX150T-30QD



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

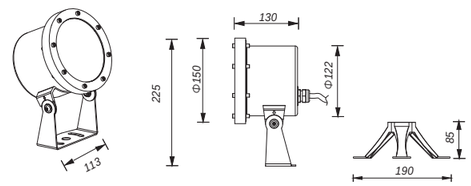
DESCRIPTION

The underwater spot light series offers unparallel flexibility to match your creativity.
The sturdy tripod design does not topple easily even when water movement is very agitated.
If preferred, the fixture can also be fixed in place using just the mounting bracket.
RDM function: DMX address to be read and written. Provide operating voltage, current and temperature of light. Provide basic data such as supplier information.



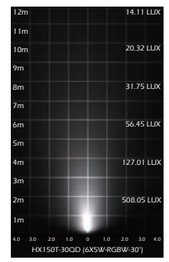
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: PMMA 8mm
- Gasket: EPDM gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- LED Driver: Constant Voltage Input, Constant Current Output
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Built-in Overheat Sensor System: Automatic Shutdown at 75°C
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: H05RR-F 3m
- Signal type: DMX512/RDM signal



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	508.05 LUX		1.1m	1.1m
4m	127.01 LUX		2.1m	2.1m
6m	56.45 LUX		3.2m	3.2m
8m	31.75 LUX		4.3m	4.2m
10m	20.32 LUX		5.3m	5.3m
12m	14.11 LUX		6.4m	6.3m

PERFORMANCE

Order No.	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX150T-30QD	6x5W RGBW 4in1	30°	24V DC	1500	36	1837	10

Underwater LED Spot Light

HX224T-36



Warning:

Must be installed underwater to prevent being damaged from over heating.

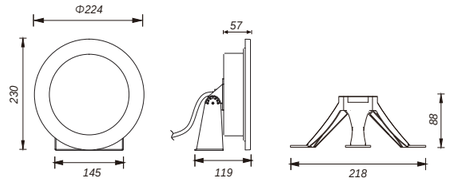
DESCRIPTION

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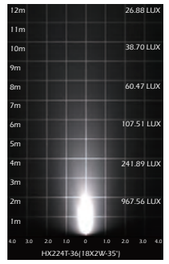
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: step tempered glass. T=10mm
- Gasket: EPDM gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	967.56 LUX		1.0m	1.0m
4m	241.89 LUX		1.9m	1.9m
6m	107.51 LUX		2.9m	2.9m
8m	60.47 LUX		3.8m	3.8m
10m	38.70 LUX		4.8m	4.8m
12m	26.88 LUX		5.8m	5.7m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX224T-36	18x2W	35°	24V DC	1900	45.6	Cool white=2221 Warm white=1828	10

Underwater LED Spot Light

HX224T-48T



Warning:

Must be installed underwater to prevent being damaged from over heating.

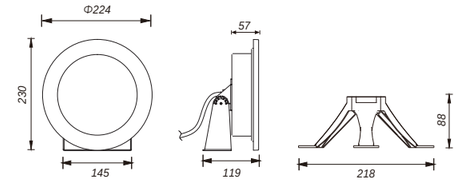
DESCRIPTION

The underwater spot light series offers unparallel flexibility to match your creativity.
The sturdy tripod design does not topple easily even when water movement is very agitated.
If preferred, the fixture can also be fixed in place using just the mounting bracket.
All NOVA LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



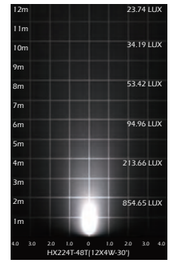
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: step tempered glass. T=10mm
- Gasket: EPDM gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	854.65LUX		1.1m	1.1m
4m	213.66 LUX		2.2m	2.1m
6m	94.96 LUX		3.3m	3.2m
8m	53.42 LUX		4.4m	4.3m
10m	34.19 LUX		5.5m	5.3m
12m	23.74 LUX		6.6m	6.4m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX224T-48T	12x4W RGB 3in1	30°	24V DC	2400	57.6	1488	10

Underwater LED Spot Light

HX211TL-12



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

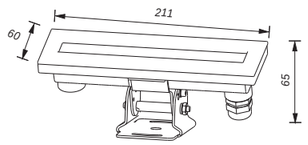
DESCRIPTION

The linear design of the underwater LED spot light series opens up new possibilities when lighting your pool.
The versatile mounting bracket of the underwater LED spot light HX211TL enables a true 180° range of tilt which allows it to be used as an up or down lighter. Perfect as wall-washers and for water features with long edges that need to beaccented.
All NOVA LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



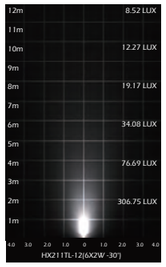
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Housing: hard chrome plated molding shaped stainless steel SUS 316
- Front cover: hard chrome plated stainless steel SUS 316L
- Light Window: step tempered glass. T=5mm
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG
- Seal: molding shaped silicon seal under the front cover silicon glue among LED, lens and PCB



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	306.75 LUX		1.1m	1.1m
4m	76.69 LUX		2.1m	2.1m
6m	34.08 LUX		3.2m	3.2m
8m	19.17 LUX		4.3m	4.2m
10m	12.27 LUX		5.3m	5.3m
12m	8.52 LUX		6.4m	6.4m

PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX211TL-12	6x2W	30°	24V DC	491	11.8	Cool white=605 Warm white=520	08

Underwater LED Spot Light

HX211TL-12T



Warning:

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

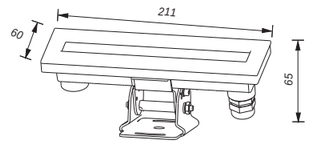
DESCRIPTION

The linear design of the underwater LED spot light series opens up new possibilities when lighting your pool.
The versatile mounting bracket of the underwater LED spot light HX211TL enables a true 180° range of tilt which allows it to be used as an up or down lighter. Perfect as wall-washers and for water features with long edges that need to beaccented.
All NOVA LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



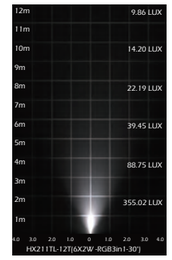
DIMENSIONS

Unit: mm



SPECIFICATIONS

- Housing: hard chrome plated molding shaped stainless steel SUS 316
- Front cover: hard chrome plated stainless steel SUS 316L
- Light Window: step tempered glass. T=5mm
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity≥2.0w/mk
- Application environment: temperature of water between -20℃~40℃ less than 1 meter depth
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG
- Seal: molding shaped silicon seal under the front cover silicon glue among LED, lens and PCB



Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width (V)	Beam Width (H)
2m	355.02 LUX		0.9m	1.0m
4m	88.75 LUX		1.9m	1.9m
6m	39.45 LUX		2.8m	2.9m
8m	22.19 LUX		3.8m	3.8m
10m	14.20 LUX		4.7m	4.8m
12m	9.86 LUX		5.6m	5.7m

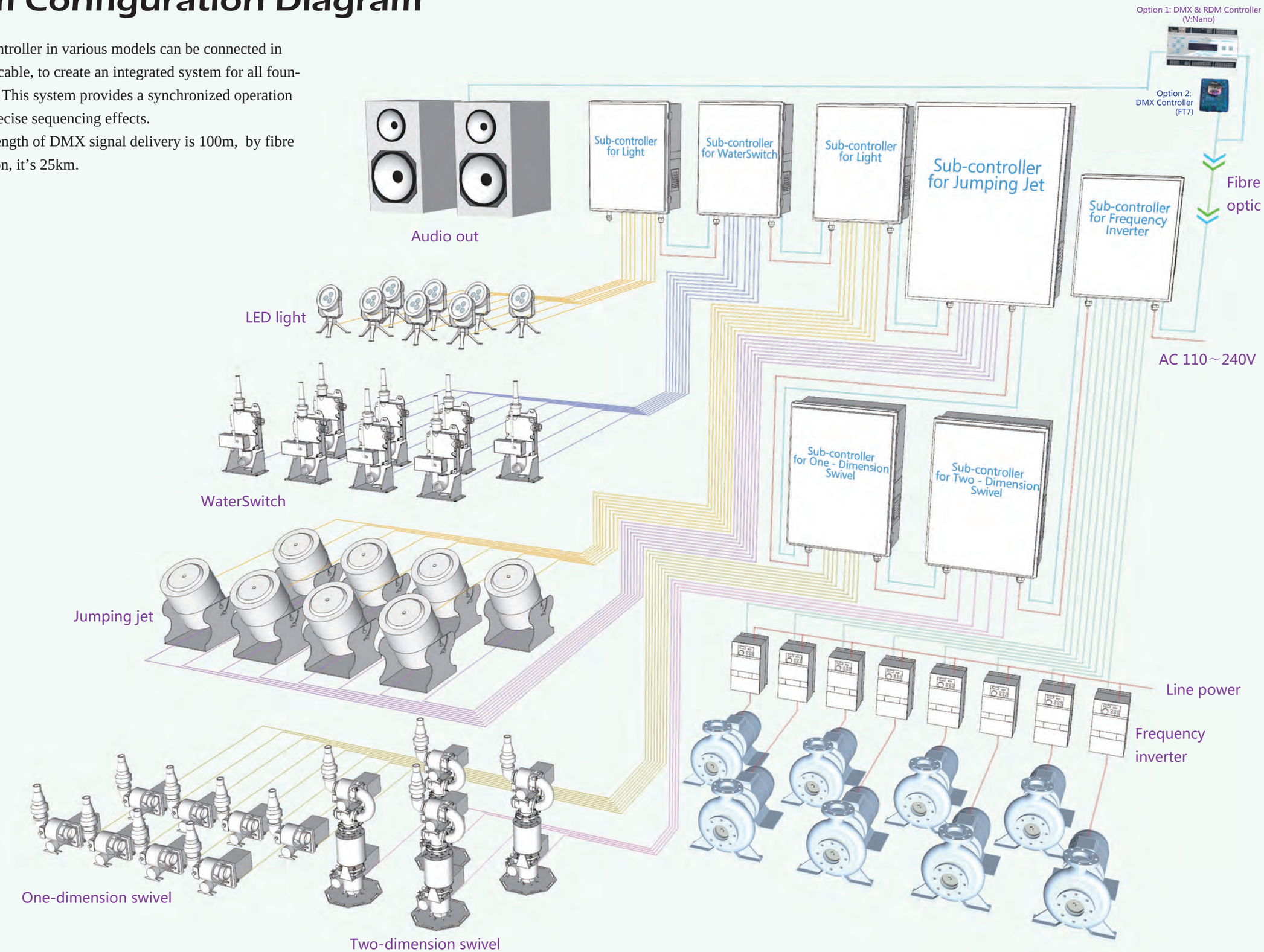
PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX211TL-12T	6x2W RGB 3in1 Full color	30°	24V DC	R=200 G=250 B=250	16.8	465	08

System Configuration Diagram

Multiple Sub-controller in various models can be connected in series via DMX cable, to create an integrated system for all fountain equipments. This system provides a synchronized operation which creates precise sequencing effects.

The maximum length of DMX signal delivery is 100m, by fibre optic transmission, it's 25km.



CONTROL SYSTEM SERIES

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SC Series DMX Sub-controller

SC series DMX sub-controller is a comprehensive solution to the integration of fountain equipment's & DMX control system. It creates the perfect interface between light, jumping jet, shooter jet, frequency inverter for pump and the DMX controller.

All sequencing lighting and water effects can be synchronized in precise timing by DMX programming.



KEYWORD

SC 8 - L 320 D 24

- Output voltage (V)
- A: alternating current
  D: direct current
- Max power (W)
- L: for light
  W: for WaterSwitch
  J: for step motor of Jumping Jet
  F: for frequency inverter of pump
  O: One - dimension Swivel
  T: Two - dimension Swivel
- Number of individual outputs
- Sub-controller



- Receive DMX 512 (1990) signal.
- Variety of models available for different applications.
- Can be connected in series via DMX cable.
- 4-points wall mounting.
- Built-in cooling fan.
- SP21/3P cable joint for power supply.
- XS12/3P cable joint for DMX signal connection.
- Multiple lock joint for output cable.

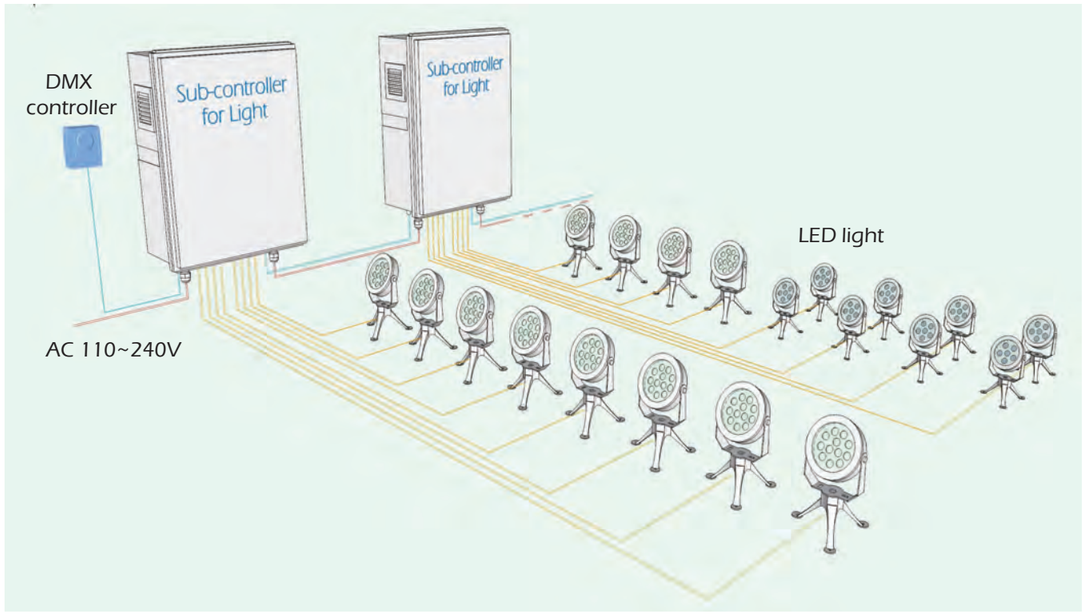


CONTROL SYSTEM SERIES
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SC Series DMX Sub-controller

DMX Sub-controller for LED Light

There are 8 output connections per Sub-controller - the LED lights can be controlled individually or in clusters. The number of lights per loop is limited to the power output.



SPECIFICATION

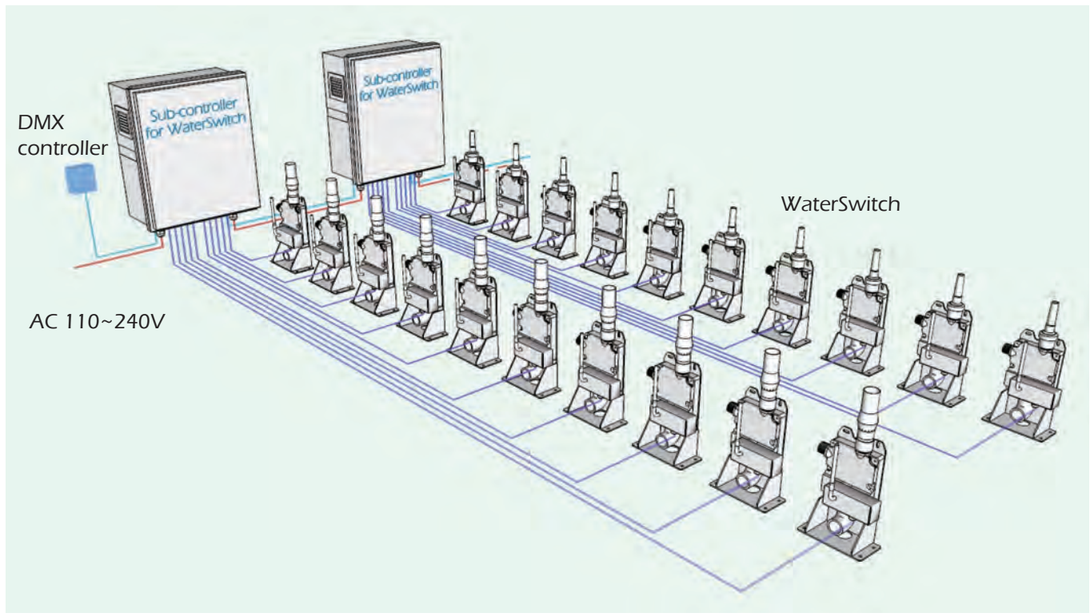
Model	SC8-L320D24	SC8-L600D24	SC8-L320D12
I/O Signal	DMX 512		
Input Voltage	110~240V AC		
Loops of Output	8 loops		
Power Output per Loop	36 W	72 W	36 W
Output Current per Loop	1.5 A	3 A	3 A
Output Voltage	24V DC	24V DC	12V DC
Temperature	-10~+60 °C		
Humidity	20~90 %RH		
Cooling	Built-in cooling fan		
Dimensions (L x W x H) (mm)	500 x 400 x 200		
Weight	8 kg		
Material	ABS		
Color	Creamy white		

CONTROL SYSTEM SERIES

SC Series DMX Sub-controller

DMX Sub-controller for WaterSwitch

There are 10 output connections per sub-controller – each WaterSwitch can be individually controlled.



SPECIFICATION

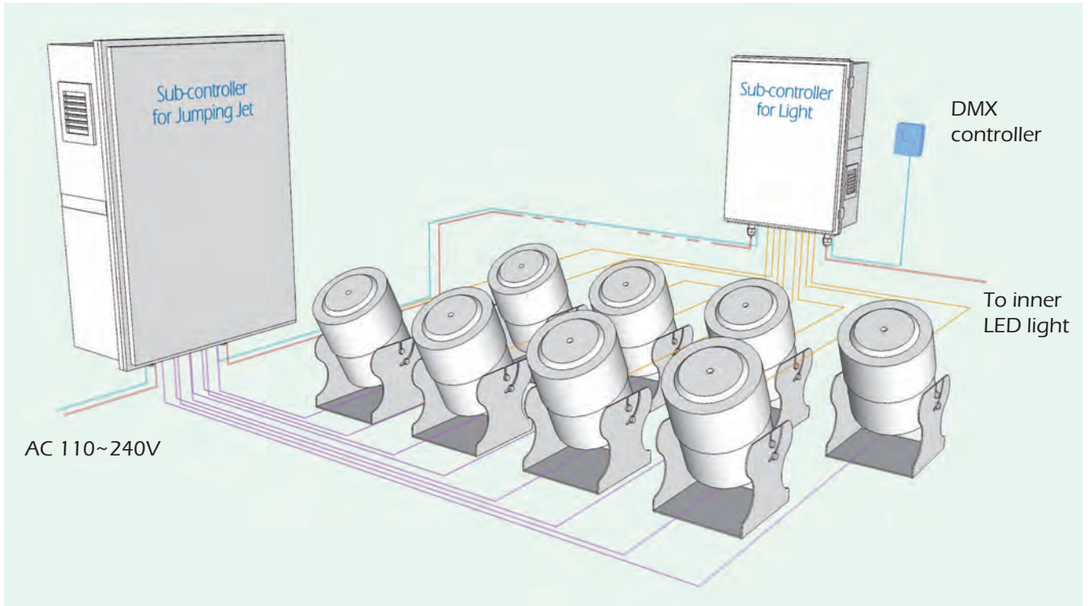
Model	SC10-W150D24
I/O Signal	DMX 512
Input Voltage	110~240V AC
Loops of Output	10 loops
Power Output per Loop	10 W
Output Current per Loop	0.4 A
Output Voltage	24V DC
Temperature	-10~+60 °C
Humidity	20~90 %RH
Cooling	Built-in cooling fan
Dimensions (L x W x H) (mm)	500 x 400 x 200
Weight	8 kg
Material	ABS
Color	Creamy white

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SC Series DMX Sub-controller

DMX Sub-controller for Jumping Jet.

There are 8 output connections per sub-controller for jumping jets – each Jumping Jet can be individually controlled. A sub-controller for lighting is required separately when built-in LED are used.



SPECIFICATION

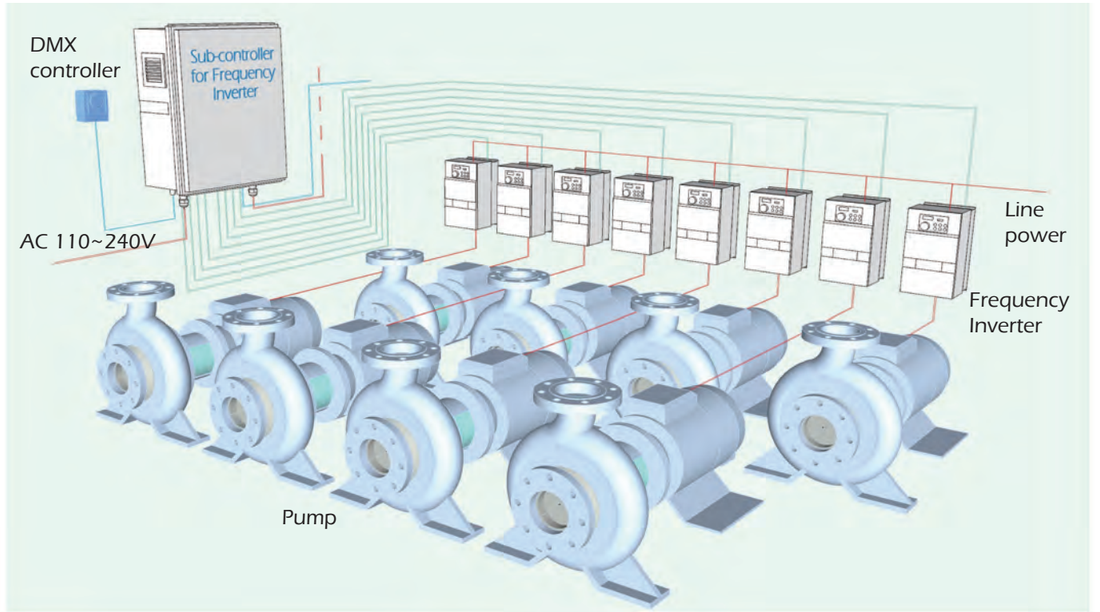
Model	SC8-J960D24	SC4-J640D24
I/O Signal	DMX 512	
Input Voltage	110~240V AC	
Loops of Output	8 loops	4 loops
Power Output per Loop	72 W	
Output Current per Loop	3 A	
Output Voltage	24V DC	
Temperature	-10~+60 °C	
Humidity	20~90 %RH	
Cooling	Built-in cooling fan	
Dimensions (L x W x H) (mm)	830 x 630 x 300	
Weight	35 kg	11.6 kg
Material	ABS	
Color	Creamy white	

CONTROL SYSTEM SERIES

SC Series DMX Sub-controller

DMX Sub-controller for Frequency Inverter.

There are 8 output connections per sub-controller for 8 inverters – each inverter can be individually controlled – the speed of pump changes in response to DMX signal via inverter (0~60Hz stepless).



SPECIFICATION

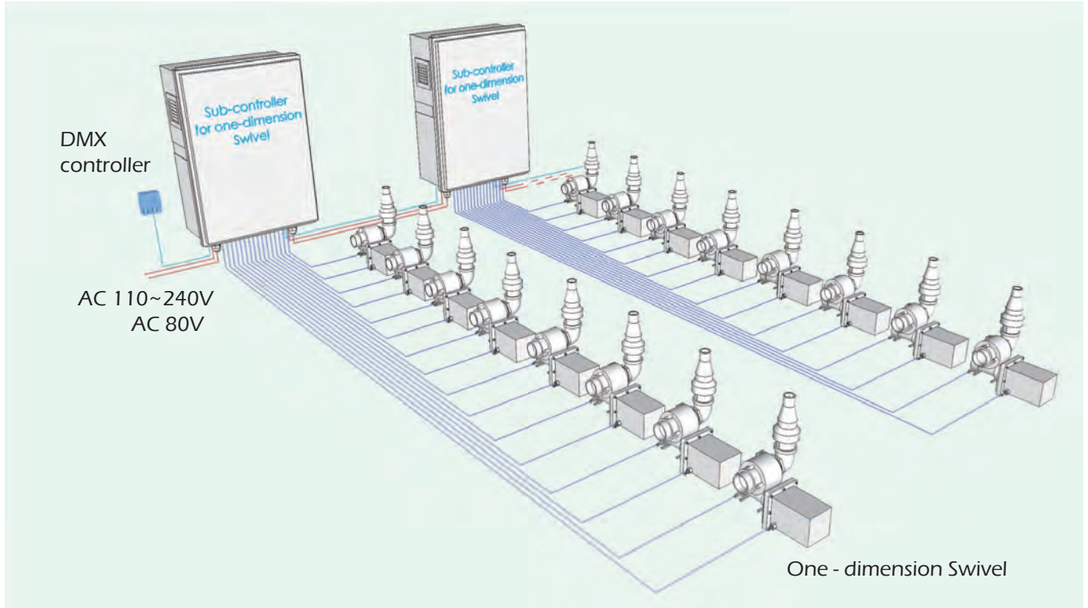
Model	SC8-F35	SC-F204
I/O Signal	DMX 512	
Input Voltage	110~240V AC	
Loops of Output	8 loops	4 loops
Power Output per Loop	4 W	
Output Current per Loop	20 mA	
Output Voltage	10V DC	
Temperature	-10~+55 °C	
Humidity	20~90 %RH	
Cooling	Natural air	
Dimensions (L x W x H) (mm)	500 x 400 x 160	
Weight	6.5 kg	6.2 kg
Material	ABS	
Color	Creamy white	

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SC Series DMX Sub-controller

DMX Sub-controller for One-dimension Swivel

There are 8 output connections per sub-controller for one - dimension swivel – each one-dimension swivel can be individually controlled.



SPECIFICATION

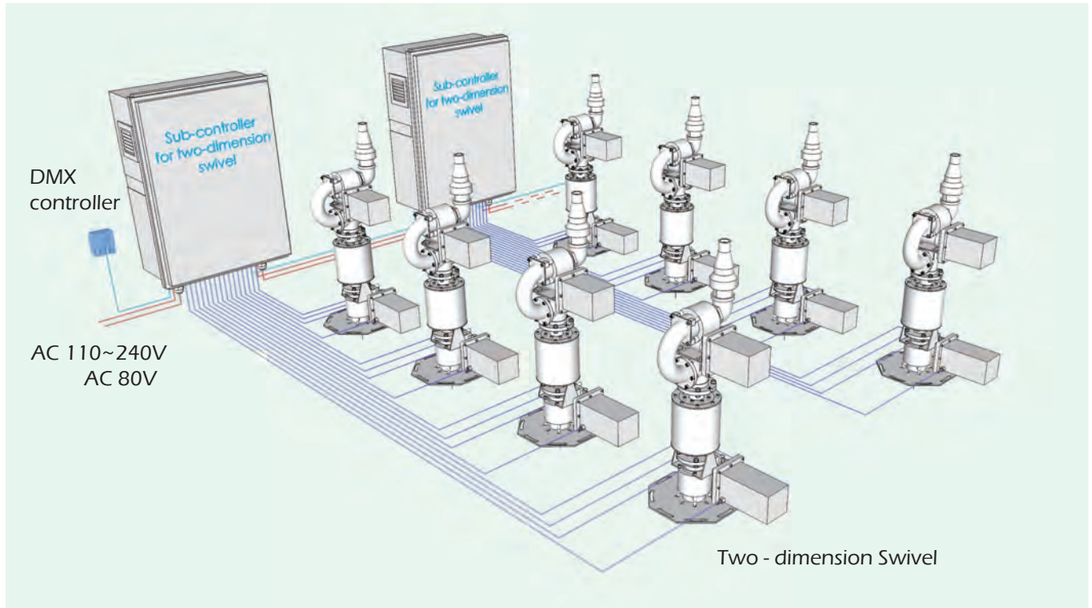
Model	SC8-O300A80
I/O Signal	DMX 512
Input Voltage (Control)	110-240V AC
Input Voltage (Stepper motor)	80V AC
Loops of Output	8
Power Output per Loop	300W
Output Current per Loop	4A
Output Voltage (Sensor)	24V DC
Output Voltage (Stepper motor)	80V AC
Temperature	-10~+50 °C
Humidity	20~90 %RH
Cooling	Built-in cooling fan
Dimensions (L x W x H) (mm)	830 x 630 x 300
Weight	35 kg
Material	ABS
Color	Creamy white

CONTROL SYSTEM SERIES

SC Series DMX Sub-controller

DMX Sub-controller for Two-dimension Swivel

There are 4 output connections per sub-controller for two-dimension swivel – each two-dimension swivel can be individually controlled.



SPECIFICATION

Model	SC4-T700A80
I/O Signal	DMX 512
Input Voltage (Control)	110-240V AC
Input Voltage (Stepper motor)	80V AC
Loops of Output	4
Power Output per Loop	700W
Output Current per Loop	9 A
Output Voltage (Sensor)	24V DC
Output Voltage (Stepper motor)	80V AC
Temperature	-10~+50 °C
Humidity	20~90 %RH
Cooling	Built-in cooling fan
Dimensions (L x W x H) (mm)	830 x 630 x 300
Weight	35 kg
Material	ABS
Color	Creamy white

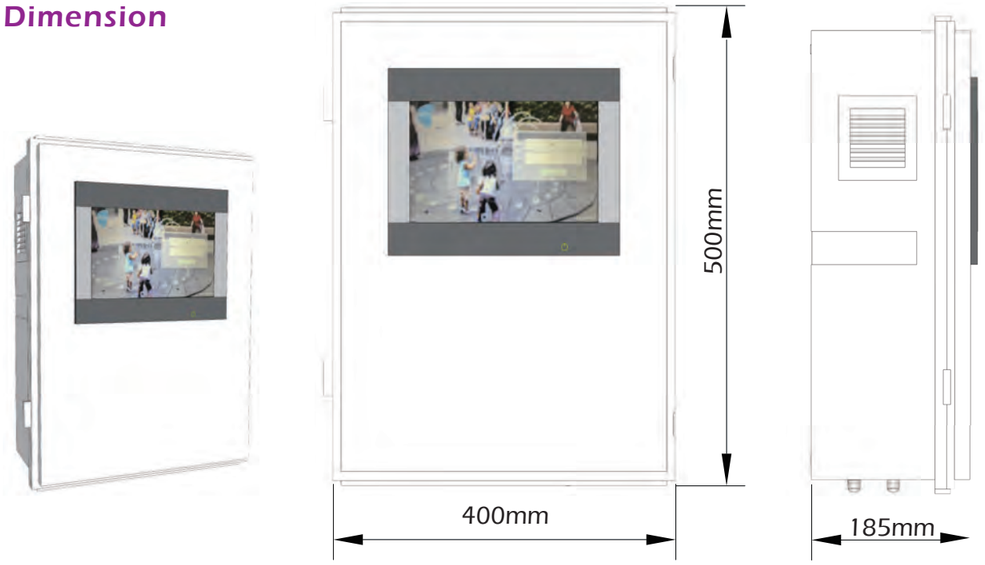
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Intergrated control system

ICS1024/ICS1024M-2/ICS512-2



Dimension



INTEGRATED CONTROL SYSTEM	ICS1024	ICS1024M-2	ICS512-2
Dimensions (L x W x H) (mm)	400x185x500	400x185x500	
Weight	10.2 kg	10.2 kg	
Housing	ABS	ABS	
Protection class	IP20	IP20	
Backup Battery	3V lithium battery CR2032 x 1	—	
Backup Battery Life	It depends on the temperature used and the conditions of usage, about 3 years or more at 25°C	—	
Storage Temperature	0-50°C	0-50°C	
Operation temperature	0-40°C/0-80°C humidity non-condensed	0-40°C/0-80°C humidity non-condensed	
Power supply	220V AC	220V AC	
Outputs	16 x Digital out	8 x Digital out	
Inputs	16 x Digital in	12 x Digital in	
Memory	Micro SD-Card for Show-Files	Micro SD-Card for Show-Files	
Operation	HMI	HMI	
Audio	—	Yes	—
Standalone shows	ARC-Stream file& Audio file	WDS file	
Interface	2x512DMX channels for ICS1024M /ICS1024	2x512DMX channels for ICS1024M-2 1x512DMX channels for ICS512-2	
Scheduler	General 10 nos. / Special 1 no.	General 10 nos. / Special 1 no.	
Action Manager & monitor	Event Actions: Digital Inputs can be linked with actions (water level) and monitor	Event Actions: Digital Inputs can be linked with actions (water level) and monitor	
Software	Windows 10 or better	Windows 10 or better	

CONTROL SYSTEM SERIES

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DMX & RDM Controller

V:Nano 512/V:Nano 1024 music



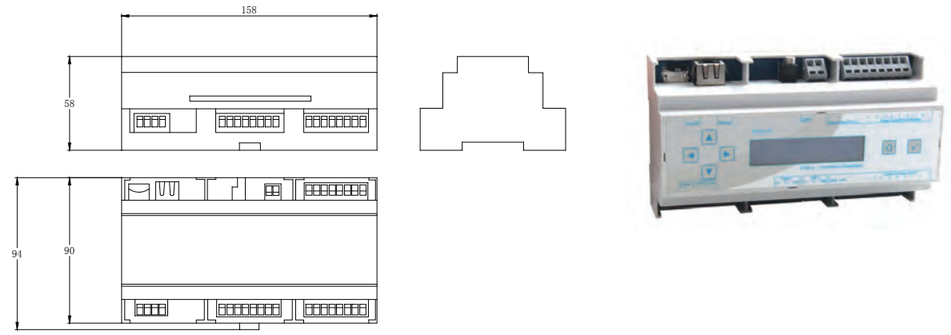
NOVA rolls out its new DIN-rail fanless ruggedized embedded systems with extra low power CPU chipset, the V:Nano 512 / V:Nano 1024 music. Made for the rugged environment, this compact unit supports wide temperature range and features DMX 512/1990 ports, isolated Ethernet port 10/100 Mbit, Micro SD card slot, 2x 16 LCD segment display.
Its 8 x digital and 8 x analog I/O makes this unit the perfect tool for all stand alone fountain multimedia show Installations.The DIN-rail hardware family is compatible to all Depence architect or ultimate versions.
Show Upload can be done via SD Card or local network.Windows Remote Live Panel Software and Service tools will be shipped with this package as well.

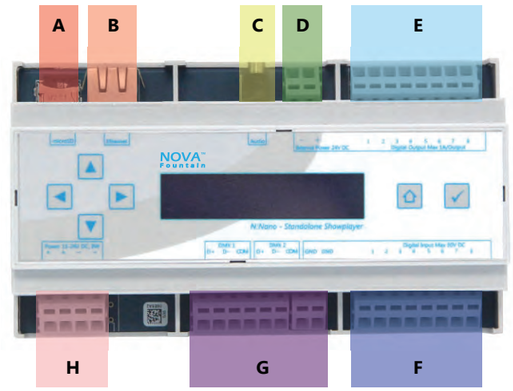
- Standalone Multimedia Showplayer
- 512/1024 DMX output channels
- Audio Output(V:Nano 1024 only)
- Time Schedule with internal clock
- Show upload via MicroSD-Card or Ethernet
- 8x Digital Input and 8x Digital Output
- DIN-Rail mounting
- Live-Panel functionality via Remote Software
- Easy to use front panel setup
- ArtNET Node functionality

Made
in Germany

DIMENSIONS

Unit: mm





A:MicroSD Card Slot-Any number of shows or sequences for a project can be saved in the micro SD card(4GB included)
B:Ethernet 10/100 Mbit-update shows
C:Audio output 3.5mm Jack Plug(V:Nano 1024 music only)
D:External Power 24V DC
E:8x digital output max 1A/Output
F: Digital Input max.24V DC
G:DMX512/1990 (“V:Nano 512”512 chanel/“V:Nano 1024 music”1024 channel)
H:Power input 15-24V DC,8W

DMX & RDM Controller	V:Nano 512	V:Nano 1024 music
Dimensions (L x W x H)	160 x 90 x 58 mm	
Weight	0.33 kg	
Housing	Polycarbonate Light grey/white/blue for top-hat rail mounting	
Protection class	IP20	
Power supply	15..24V DC/ 8W	
Operation temperature	0..40°C / 0..80% humidity non-condensed	
Certification	CE	
Outputs	DMX 512/1990 512 channel 8 x Digital Out (Clamps 24V DC/ 1A max., optically isolated)	DMX 512/1990 1024 channel 8 x Digital Out (Clamps 24V DC/ 1A max., optically isolated) 1 x Stereo Audio (3,5 mm jack plug, galvanic isolated)
Inputs	8 x Digital In (Clamps 24V DC., optically isolated)	
Others connections	Ethernet RJ45 10/100Mbit	
Memory	MicroSD-Card	
Operation	2 x 16 Segment LCD Display with 6 keys	

CONTROL SYSTEM SERIES
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Y-Strainer

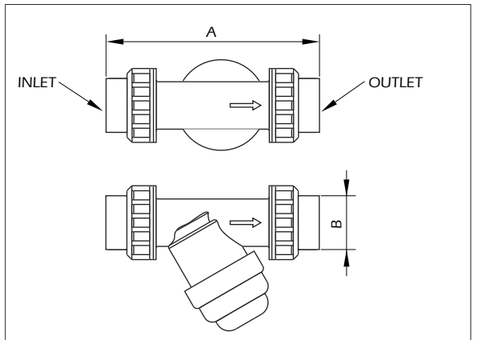
The Y-strainer is designed to be used with nozzle to protect nozzles from clogging:

CHARACTERISTICS

- Available in various sizes and flows.
- Can be combined with other Y-strainer products to increase filtration.
- Made of plastic.

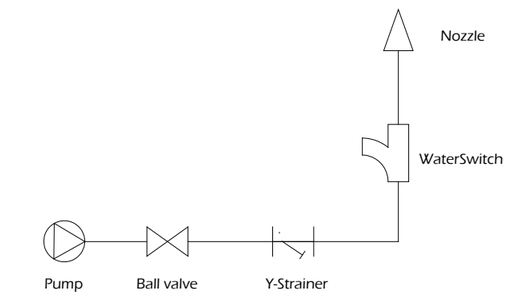
DIMENSIONS

Type	Inlet	Outlet	A dim (mm)	B dim (mm)	Mesh Opening Size(mm)
Y25	De32	De32	186	150	1
Y32	De40	De40	223	147	1
Y40	De50	De50	234	163	1





DIAGRAM



Swivel Connector

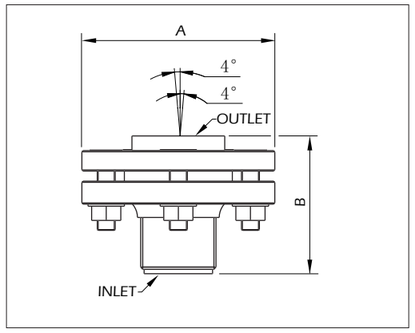
Connects to the bottom of nozzles to help directional alignment after installation:

CHARACTERISTICS

- Adjusts up to 4° from center line.
- Made of stainless steel fitted

DIMENSIONS

Type	Inlet	Outlet	A dim (mm)	B dim (mm)
SJ25	G1″	G1″	84	60
SJ40	G1 1/2″	G1 1/2″	102	81
SJ50	G2″	G2″	117	77





Quick Connector

Two parts respectively connect to the pipe and the bottom of nozzle to help install and dismantle

CHARACTERISTICS

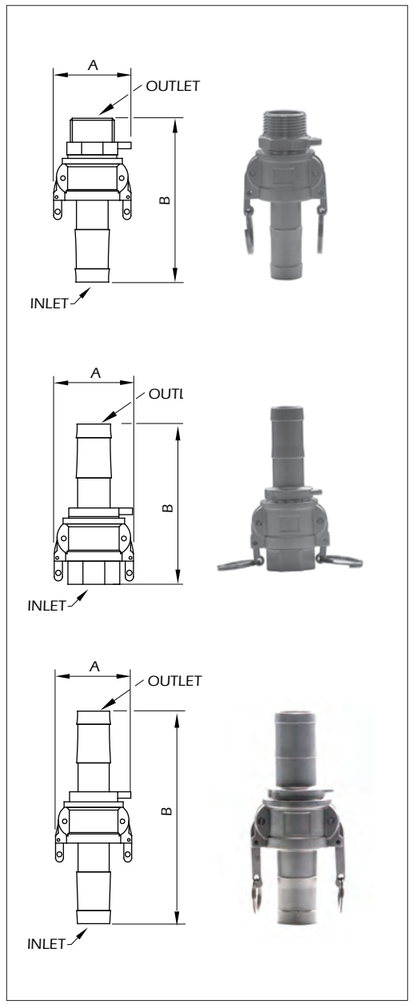
- Made of stainless steel fitted
- Three kinds of outlets

DIMENSIONS

Type	Inlet (Pagoda Joint)	Outlet (Inside Thread)	A dim (mm)	B dim (mm)
QCI25	Φ25	G1″	58	118
QCI40	Φ39.4	G1 1/2″	85	134
QCI50	Φ51.2	G2″	95	147

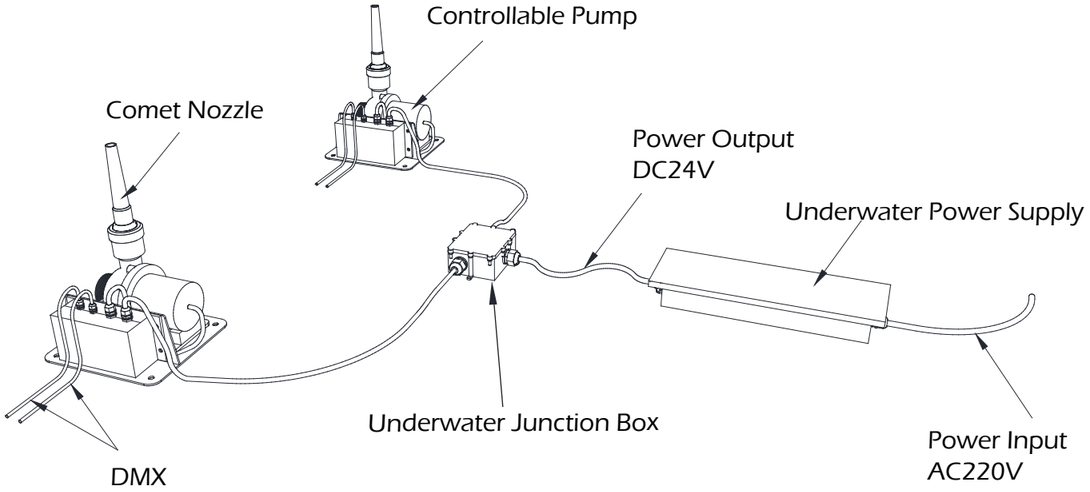
Type	Inlet (Outside Thread)	Outlet (Pagoda Joint)	A dim (mm)	B dim (mm)
QCO25	G1″	Φ25	58	123
QCO40	G1 1/2″	Φ39.4	85	140
QCO50	G2″	Φ51.2	95	160

Type	Inlet (Pagoda Joint)	Outlet (Pagoda Joint)	A dim (mm)	B dim (mm)
QCP25	Φ25	Φ25	58	162
QCP40	Φ39.4	Φ39.4	85	180
QCP50	Φ51.2	Φ51.2	95	195



Underwater Power Supply



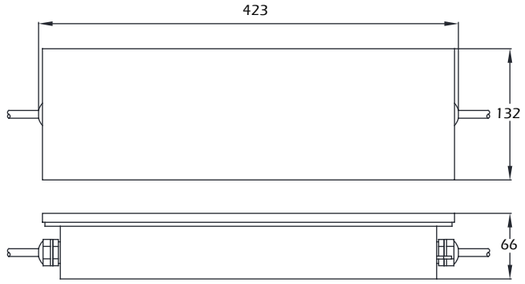


HXPS-200-12 / HXPS-200-24

The underwater power supply HXPS-200 is fully potted power supply.It is a 200W industrial AC/DC power supply featuring the outstanding capability to operate under a harsh environment with high dust density,humidity,vibration and altitude.
The entire series is housed with a stainless steel 304 case and fully potted with epoxy resin.It guarantees a safe and long-lasting functioning under water.
Even low voltage devices can now be operated with the underwater power supply which leads to enormous reduction of time and material cost at the installation sites.

DIMENSIONS

Unit: mm



HXPS-200-12 / HXPS-200-24



CHARACTERISTICS

- Constant Voltage & Constant current mode output.
- No load / Standby power consumption<0.5W
- IP68 design. Rating for underwater intallation.
- Typical lifetime > 40000 hours.
- Cable type(Input):1.5m STW 18AWG/3C
- Cable type(Output):1.5m STW 18AWG/2C

Type	HXPS-200-12	HXPS-200-24
Dimensions (L×W×H) [mm]	423×132×66	423×132×66
Nominal input voltage[V/AC]	100-305	100-305
Nominal input frequency[Hz]	47~63	47~63
Output voltage[V]	12	24
Output current[A]	16	8.4
Efficiency[%]	90	92
Protection class	IP68	IP68
Weight[kg]	5	5

FITTINGS

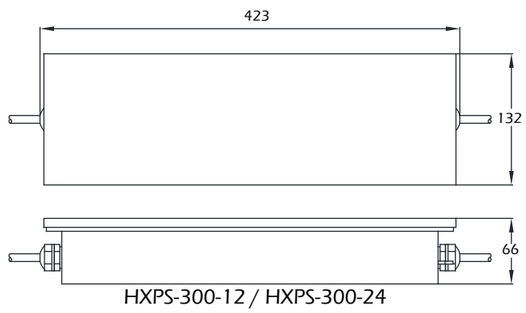
www.novafountain.com.sg

HXPS-300-12 / HXPS-300-24

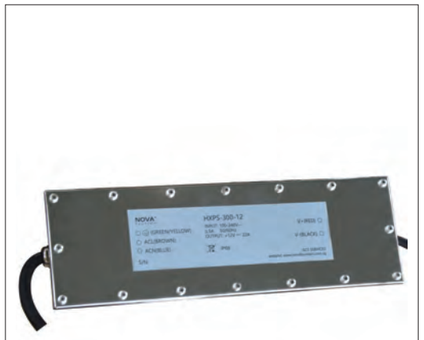
The underwater power supply HXPS-300 is fully potted power supply. It is a 300W industrial AC/DC power supply featuring the outstanding capability to operate under a harsh environment with high dust density,humidity,vibration and altitude.
The entire series is housed with a stainless steel 304 case and fully potted with epoxy resin.It guarantees a safe and long-lasting functioning under water.
Even low voltage devices can now be operated with the underwater power supply which leads to enormous reduction of time and material cost at the installation sites.

DIMENSIONS

Unit: mm



HXPS-300-12 / HXPS-300-24



CHARACTERISTICS

- Constant Voltage & Constant current mode output.
- Protection Functions: OCP, SCP, OVP, OTP.
- IP68 design. Rating for underwater intallation.
- Typical lifetime > 40000 hours.
- Cable type(Input):1.5m STW 18AWG/3C
- Cable type(Output):1.5m STW 18AWG/2C

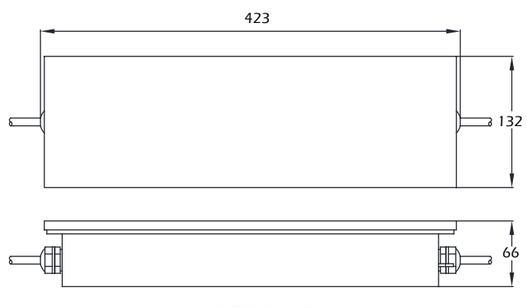
Type		HXPS-300-12	HXPS-300-24
Dimensions (L×W×H) [mm]		423×132×66	423×132×66
Nominal input voltage[V/AC]		100-305	100-305
Nominal input frequency[Hz]		47~63	47~63
Output voltage[V]		12	24
Output current[A]	200VAC~305VAC	22	12.5
	100VAC~180VAC	18.7	10.63
Efficiency[%]		91	94
Protection class		IP68	IP68
Immersion depth max		1 m	1 m
Weight[kg]		5	5

HXPS-240-24

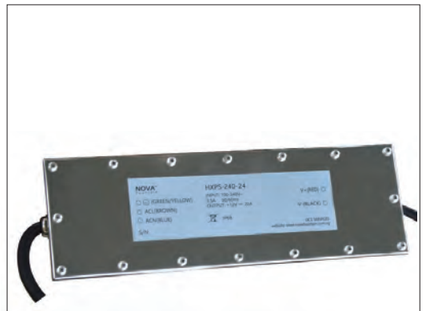
The underwater power supply HXPS-240 is fully potted power supply.
It is a 240W industrial AC/DC power supply featuring the outstanding capability to operate under a harsh environment with high dust density,humidity,vibration and altitude.
The entire series is housed with a stainless steel 304 case and fully potted with epoxy resin.
It guarantees a safe and long-lasting functioning under water.
Even low voltage devices can now be operated with the underwater power supply which leads to enormous reduction of time and material cost at the installation sites.

DIMENSIONS

Unit: mm



HXPS-240-24



CHARACTERISTICS

- Constant Voltage & Constant current mode output.
- No load / Standby power consumption<0.5W
- IP68 design. Rating for underwater intallation.
- Typical lifetime > 40000 hours.
- Cable type(Input):1.5m STW 18AWG/3C
- Cable type(Output):1.5m STW 18AWG/2C

Type	HXPS-240-24
Dimensions (L×W×H) [mm]	423×132×66
Nominal input voltage [V/AC]	100-305
Nominal input frequency [Hz]	47~63
Output voltage [V]	24
Output current [A]	10
Efficiency [%]	92
Protection class	IP68
Weight [kg]	5

CROWNE PLAZA, SHANGHAI PUJIANG