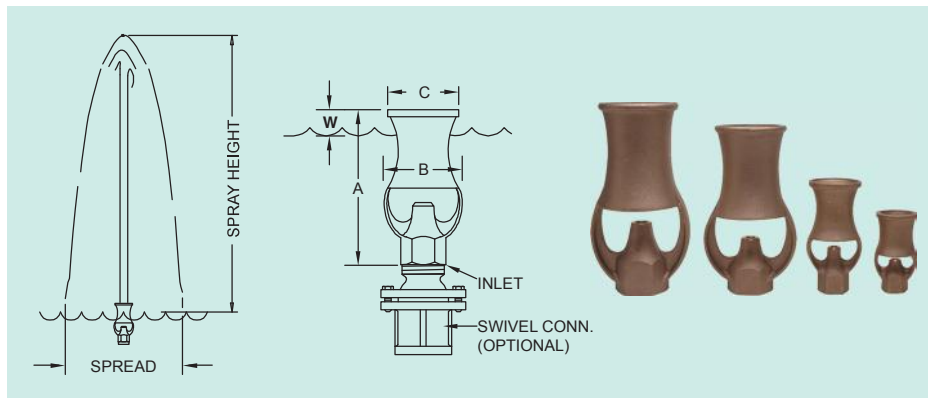


NCA Series – Cascade Jet



VISIBILITY	■ ■ ■ ■ ■
SOUND LEVEL	■ ■ ■ □ □
WIND RESISTANCE	■ ■ ■ ■ ■
SPLASH/MIST	■ ■ ■ □ □
EFFICIENCY	■ ■ □ □ □

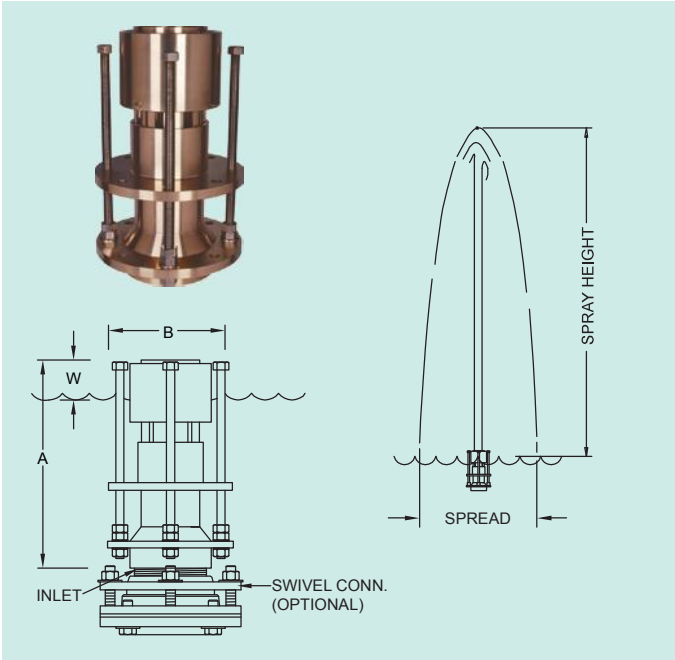
DIMENSIONS

PERFORMANCE

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	0.6	1	1.3	1.6	1.9	2.5	3.1	3.7	4.6	6.1	7.7	9.2
NCA075	¾"	140	70	64	-26	9	LPM	45.0	57.0	61.0	76.0	76.0	87.0						
							Head (m.)	6.5	7	9.8	13.5	15.6	21.1						
							Spread (cm.)	26	28	44	61	77	87						
NCA125	1 ¼"	204	115	89	13	9	LPM	61.0	79.0	87.0	98.0	110.0	129.0	144.0	151.0				
							Head (m.)	3.7	5.5	7.1	8.6	11.3	15.3	17.7	19.9				
							Spread (cm.)	23	31	46	61	72	74	92	102				
NCA150	1 ½"	229	121	96	13	9	LPM	87.0	110.0	121.0	136.0	159.0	170.0	185.0	201.0	220.0			
							Head (m.)	3.4	4.3	5.5	7	9.8	11.3	14	15.3	18.9			
							Spread (cm.)	26	39	49	61	77	82	92	94	102			
NCA200	2"	274	140	115	13	9	LPM			159.0	178.0	189.0	231.0	254.0	269.0	284.0	348.0		
							Head (m.)			4.3	5.8	7.4	10.1	12.2	13.2	15	21.7		
							Spread (cm.)			39	51	51	92	102	110	127	140		
NCA300	3"	362	204	166	20	25	LPM				333.0	341.0	352.0	424.0	439.0	545.0	628.0	708.0	776.0
							Head (m.)				7.4	8	10.7	12.9	15	19.3	24.1	31.7	25.4
							Spread (cm.)				61	61	67	107	122	153	153	214	244

NCL Series – Lake Cascade Jet

Over 30m of foamy white water ideal for larger installations; lakes, ponds and large fountains. The Lake Cascade Jet provides a large-scale visual presence of grandeur and beauty. Provides heavy aeration as well as visual and auditory presence. Made of cast bronze and stainless steel. Optional alignment swivel available (ASU). **Water level dependent.**



**Contact Crystal Fountains for detailed specifications, installation and operation details.*

DIMENSIONS					PERFORMANCE						VISIBILITY	SOUND LEVEL	WIND RESISTANCE	SPLASH/MIST	EFFICIENCY
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	w dim. (mm)	Spray height (m.)	3.1	6.1	15.3	24.4	30.5					
NCL600	6"	610	331	153	LPM	1552.0	2233.0	3502.0	4542.0	4921.0					
					Head (m.)	7.7	15.3	38.1	61	76.2					
					Spread (m.)	N/A	N/A	N/A	N/A	N/A					

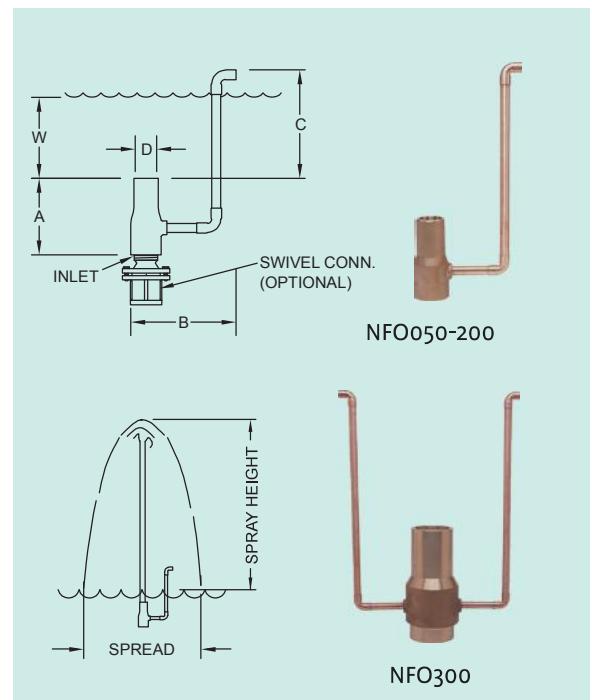
NFO Series – Foam Jet

Easy to install, the Foam Jet creates a mass of aerated water run at lower heights, and becomes a splashy, frothy column at levels above 2.5m. Ideal for medium-sized and large displays holding shape better at lower heights. Provides optimum visual and sound effects. Optional alignment swivel available (ASU). Made of cast bronze and copper. **Water level dependent.**

VISIBILITY	■ ■ ■ ■ ■
SOUND LEVEL	■ ■ ■ □ □
WIND RESISTANCE	■ ■ ■ ■ □
SPLASH/MIST	■ ■ □ □ □
EFFICIENCY	■ ■ ■ □ □



This product (excluding NFO200 and NFO300) is available under our Quick Ship program! See page 15 for more details.



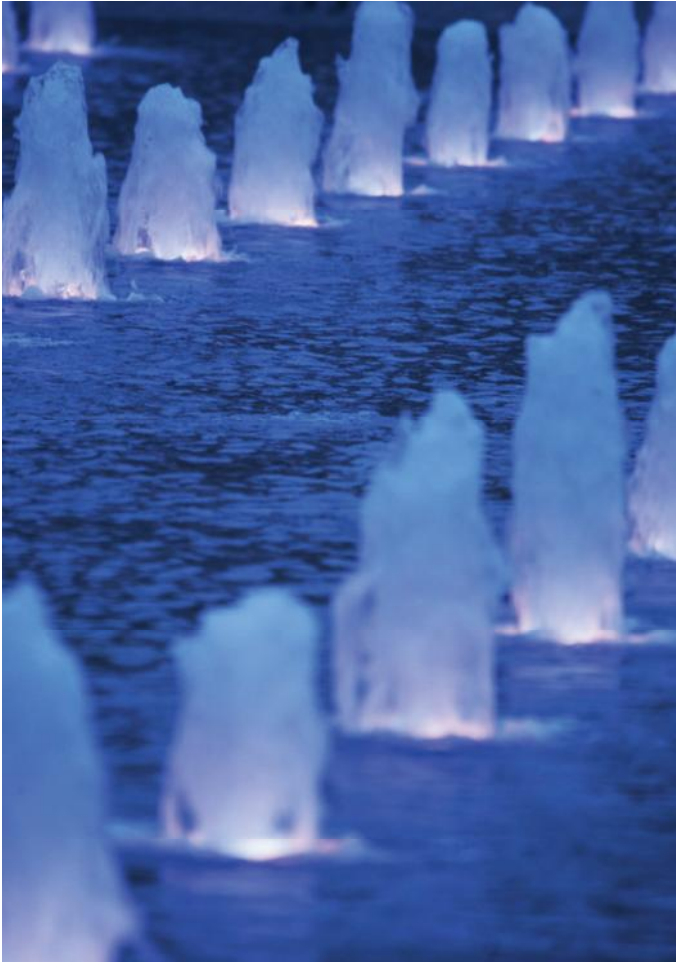
DIMENSIONS

PERFORMANCE

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	0.4	0.7	1	1.3	1.6	1.9	2.5	3.1	4.6	6.1
NFO050	½"	83	108	89	13	64	4	LPM	23.0	26.0	34.0							
								Head (m.)	2.5	3.7	4.6							
								Spread (cm.)	18	31	31							
NFO100	1"	115	153	159	26	73	7	LPM	57.0	83.0	91.0	98.0	102.0	110.0				
								Head (m.)	1.6	2.2	3.4	4	4.6	5.5				
								Spread (cm.)	26	31	44	56	61	72				
NFO150	1 ½"	134	185	235	39	127	10	LPM	140.0	170.0	223.0	235.0	254.0	273.0	291.0	326.0		
								Head (m.)	2.2	3.4	4.9	6.1	7.1	8.6	9.2	12.5		
								Spread (cm.)	31	44	61	77	92	102	102	112		
NFO200	2"	178	197	254	51	73	13	LPM		182.0	220.0	235.0	257.0	280.0	310.0	322.0	435.0	
								Head (m.)		2.2	3.1	3.4	4	4.9	6.5	7.4	11	
								Spread (cm.)		26	41	46	61	81	92	102	127	
NFO300	3"	235	343	293	73	89	20	LPM		416.0	492.0	530.0	625.0	644.0	719.0	757.0	908.0	1098.0
								Head (m.)		2.2	2.9	3.4	4.3	4.6	6.5	7.4	10.1	14.4
								Spread (cm.)		39	67	92	92	122	153	178	204	229

*Contact Crystal Fountains for detailed specifications, installation and operation details.

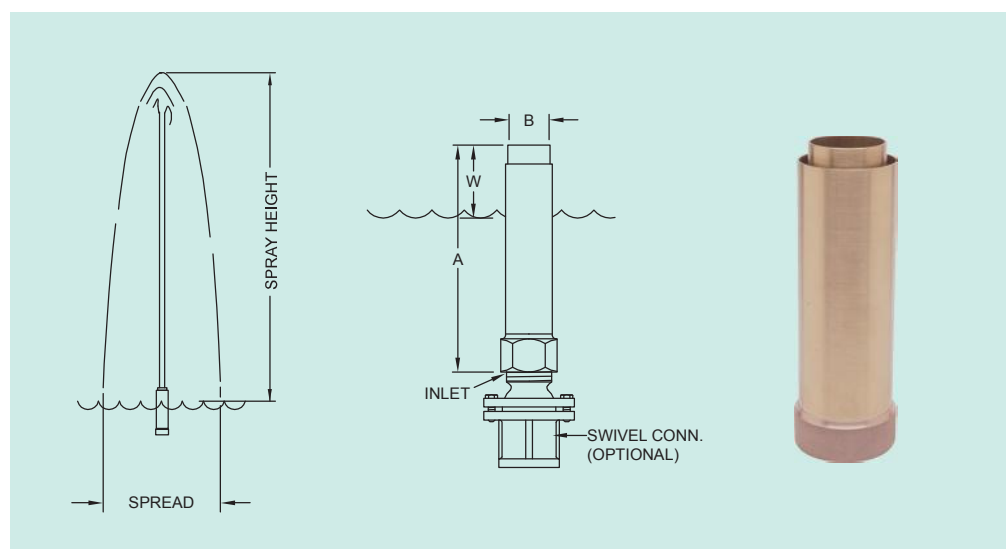
NFO Series – Foam Jet



NIA Series – Aerator Jet

This jet provides highly aerated water in a slender, column shape. Ideal for shallow pools in small and medium-sized displays and can be grouped together closely. Beautiful when illuminated at night. Made of cast bronze, brass and copper. Optional alignment swivel available (ASU). **Not Water level dependent.**

VISIBILITY	■ ■ ■ ■ ■
SOUND LEVEL	■ ■ ■ □ □
WIND RESISTANCE	■ ■ ■ ■ □
SPLASH/MIST	■ ■ ■ ■ □
EFFICIENCY	■ ■ ■ □ □



**Contact Crystal Fountains for detailed specifications, installation and operation details.*

DIMENSIONS

PERFORMANCE

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	1.3	1.6	3.1	3.7	4.9	6.1
NIA075	¾"	118	32	26	2	LPM	30.0	34.0	45.0			
						Head (m.)	3.1	4.3	6.9			
						Spread (cm.)	36	46	72			
NIA100	1"	153	35	26	2	LPM	42.0	53.0	68.0			
						Head (m.)	4	5.8	9.2			
						Spread (cm.)	23	41	51			
NIA125	1 ¼"	166	42	39	3	LPM	61.0	68.0	91.0			
						Head (m.)	4	5.2	8.9			
						Spread (cm.)	31	61	67			
NIA150	1 ½"	216	51	39	4	LPM	83.0	98.0	125.0	136.0		
						Head (m.)	4	5.5	8.6	10.4		
						Spread (cm.)	51	72	97	107		
NIA200	2"	229	70	51	5	LPM	110.0	129.0	163.0	178.0	197.0	
						Head (m.)	2.8	4	6.5	7.4	9.5	
						Spread (cm.)	41	46	61	77	122	
NIA300	3"	293	102	64	6	LPM	178.0	220.0	310.0	341.0	416.0	428.0
						Head (m.)	4	5.2	9.2	10.7	13.5	17.7
						Spread (cm.)	34	61	92	102	153	153

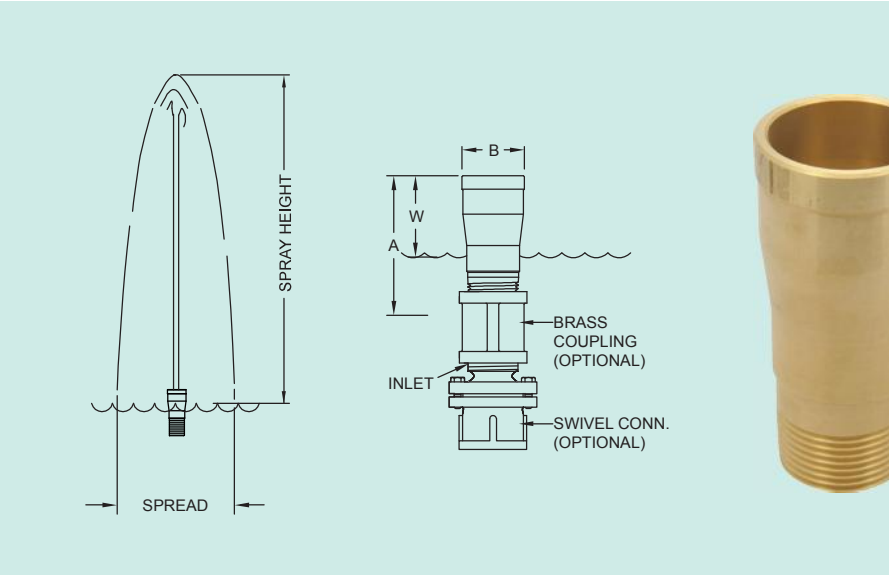
NIA Series – Aerator Jet



NIC Series – Funnel Cascade Jet

A compact, foamy effect that can deliver a highly aerated water spray. Ideal for small and medium-sized displays with shallow water. Optional alignment swivel available (ASU). Made of cast bronze. **Not water level dependent.**

- VISIBILITY
- SOUND LEVEL
- WIND RESISTANCE
- SPLASH/MIST
- EFFICIENCY



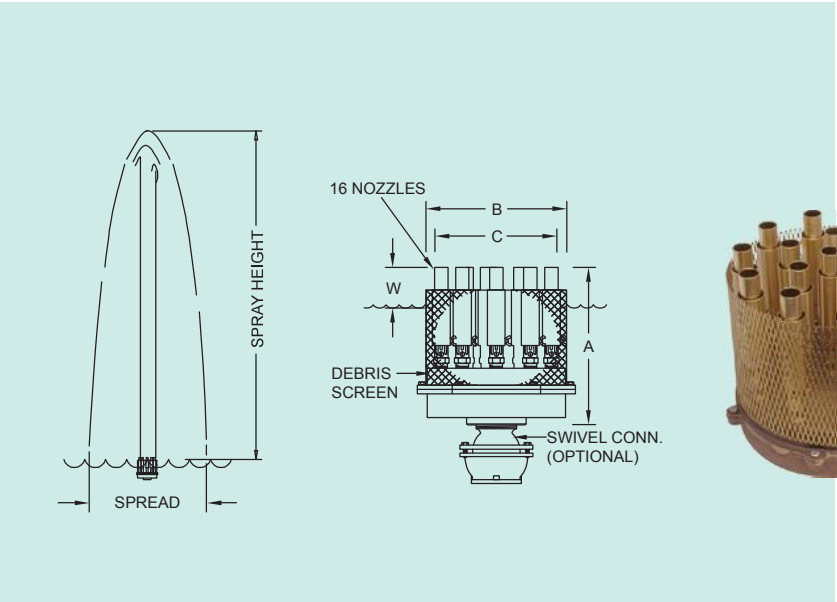
**Contact Crystal Fountains for detailed specifications, installation and operation details.*

DIMENSIONS						PERFORMANCE						
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	0.6	1	1.3	1.6	1.9	2.5
NIC100	1"	93	42	51	7	LPM	87.0	106.0	121.0	129.0	136.0	159.0
						Head (m.)	2.2	2.8	3.7	4.3	4.6	6.5
						Spread (cm.)	18	31	44	51	61	74

NPB Series – Medium Foam Pod

An easy to install, foamy column of water using 16 popular aerator nozzles all in one unit. A continuously changing pattern creates visual interest which pulsates as it rises in height. Ideal for medium-sized pools, water can rise up to 6.1m in height. Made of cast bronze, brass and copper with integral brass debris screen. Optional alignment swivel available (ASU). **Water level dependent.**

VISIBILITY	■ ■ ■ ■ ■
SOUND LEVEL	■ ■ ■ ■ □
WIND RESISTANCE	■ ■ ■ ■ □
SPLASH/MIST	■ ■ ■ ■ □
EFFICIENCY	■ ■ ■ □ □



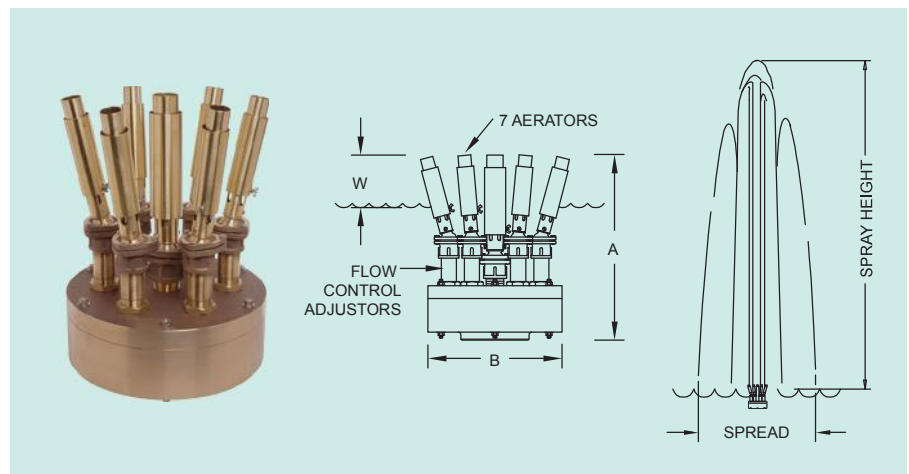
**Contact Crystal Fountains for detailed specifications, installation and operation details.*

DIMENSIONS								PERFORMANCE				
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Stream Size (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	3.1	3.7	4.6	6.1
NPB100	3"	356	305	280	77	280	6	LPM	791.0	810.0	852.0	988.0
								Head (m.)	15.6	17.1	22	28.4
								Spread (cm.)	214	N/A	N/A	N/A
Options		Add Suffix										
Wave Suppression Device		W										

NPC Series – Crown Pod

A versatile two-tiered display of foamy streams using 7 angled aerator nozzles all in one unit for easy installation. The Crown Pod produces an elegant outward spray of up to 15.3m with adjustable effect to allow for height and pattern changes. Perfect for large bodies of water as a center focus. Optional alignment swivel available (ASU). Made of cast bronze with adjustable height regulators. **Water level dependent.**

VISIBILITY	■ ■ ■ ■ ■
SOUND LEVEL	■ ■ ■ ■ □
WIND RESISTANCE	■ ■ ■ ■ □
SPLASH/MIST	■ ■ ■ ■ □
EFFICIENCY	■ ■ ■ □ □



**Contact Crystal Fountains for detailed specifications, installation and operation details.*

DIMENSIONS

PERFORMANCE

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	1.6	2.5	3.1	4.6	6.1	7.7	9.2	10.7	12.2	15.3
NPC100	2"	356	229	51	4	LPM	170.0	189.0	220.0							
						Head (m.)	7.4	10.1	19.9							
						Spread (cm.)	305	427	488							
NPC200	3"	420	305	64	6	LPM	242.0	291.0	329.0	394.0						
						Head (m.)	7.4	10.7	12.9	17.7						
						Spread (cm.)	305	427	610	854						
NPC300	4"	508	356	77	9	LPM		352.0	390.0	454.0	481.0					
						Head (m.)		7.4	8.9	12.2	12.9					
						Spread (cm.)		488	610	793	915					
NPC400	4"	610	496	102	9	LPM			825.0	939.0	1060.0	1196.0	1302.0	1488.0		
						Head (m.)			10.7	15.6	17.7	21.4	25.7	34.2		
						Spread (cm.)			610	976	1067	1342	1524	2012		
NPC500	6"	635	496	89	13	LPM				1700.0	1961.0	2018.0	2294.0	2472.0	2646.0	3021.0
						Head (m.)				11.3	15.6	17.1	20.5	24.1	26.9	33.3
						Spread (cm.)				732	1037	1159	1281	1464	1768	2195

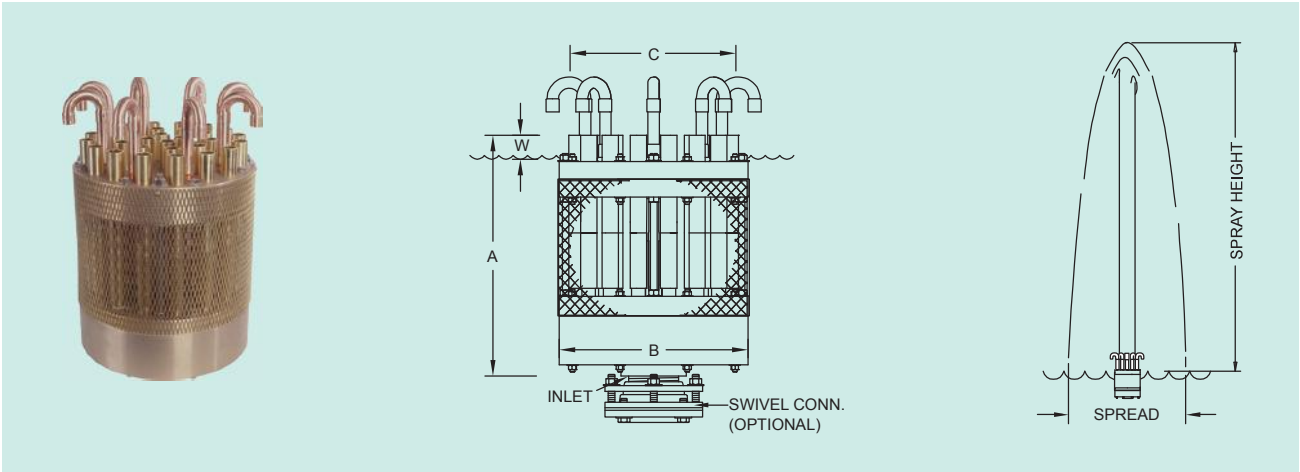
Options

Add Suffix

Wave Suppression Device W

NPF Series – Large Foam Pod

A versatile, massive and foamy effect with 30 individual aerator nozzles all in one unit for easy installation. Available in two distinctive styles Pyramid (NPF-100) and Solid columnar effect with a bulbous crest (NPF-200). Spectacular when illuminated. Best used in larger pools of water. Made of cast bronze, brass and copper with integral brass debris screen and built-in air/water ratio adjustment to control foam aeration. Optional alignment swivel available (ASU). **Water level dependent.**



*Contact Crystal Fountains for detailed specifications, installation and operation details.

VISIBILITY	■ ■ ■ ■ ■
SOUND LEVEL	■ ■ ■ ■ □
WIND RESISTANCE	■ ■ ■ ■ □
SPLASH/MIST	■ ■ ■ ■ □
EFFICIENCY	■ ■ □ □ □

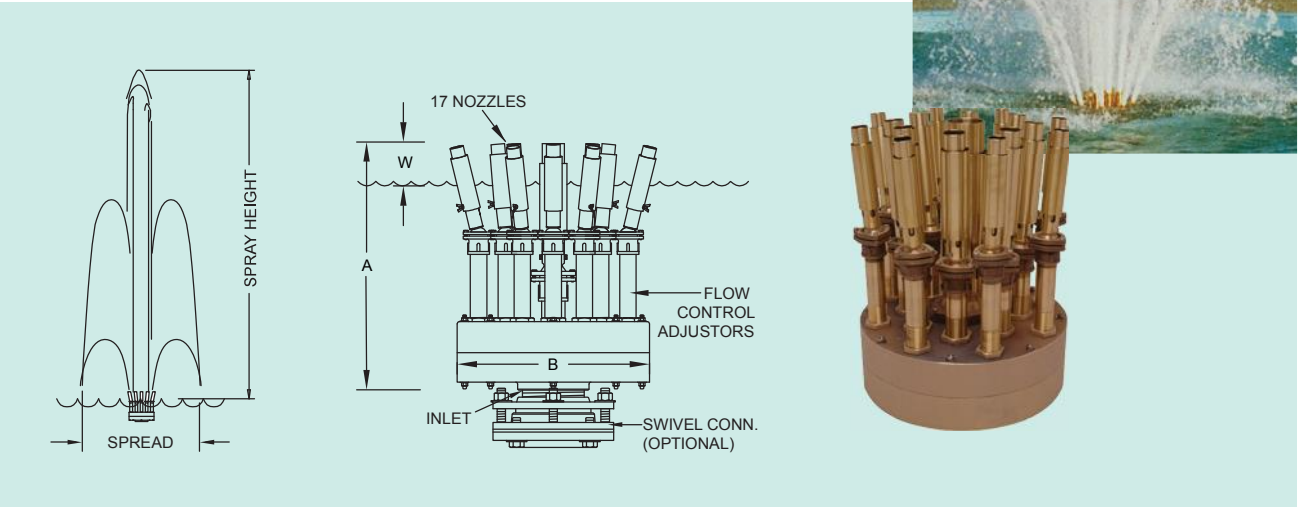
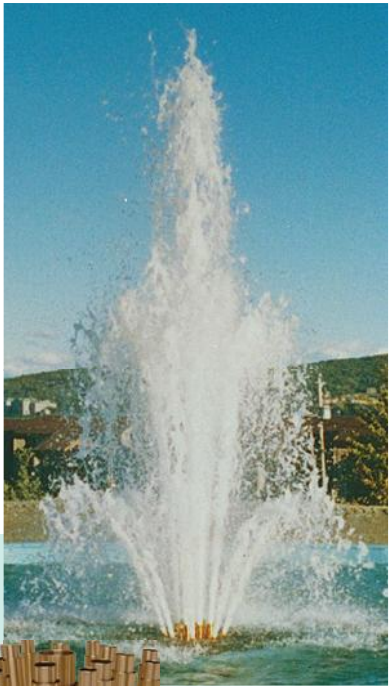
DIMENSIONS							PERFORMANCE				
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	3.1	4.6	6.1	7.7
NPF100	4"	470	381	331	51	5	LPM	1102.0	1355.0	1518.0	1673.0
							Head (m.)	21.4	32.7	41.2	50.3
							Spread (cm.)	77	92	107	122
NPF200	4"	470	381	331	51	5	LPM	1741.0	2180.0	2430.0	2714.0
							Head (m.)	17.7	28.4	39.1	51.3
							Spread (cm.)	183	214	244	275

Options	Add Suffix
Wave Suppression Device	W

NPW Series – Large Watercastle Pod

A popular, three-tiered watercastle effect with 17 angled aerator nozzles all in one unit for easy installation. Effect is adjustable to allow for height and pattern changes. Produces a dramatic mass of aerated water ideal for viewing from great distances in a larger pool of water with spread up to 23.2m in diameter. Optional alignment swivel available (See ASU). Made of cast bronze, brass and copper complete with adjustable height regulators. **Water level dependent.**

VISIBILITY	■ ■ ■ ■ ■
SOUND LEVEL	■ ■ ■ ■ □
WIND RESISTANCE	■ ■ ■ ■ □
SPLASH/MIST	■ ■ ■ ■ □
EFFICIENCY	■ ■ □ □ □



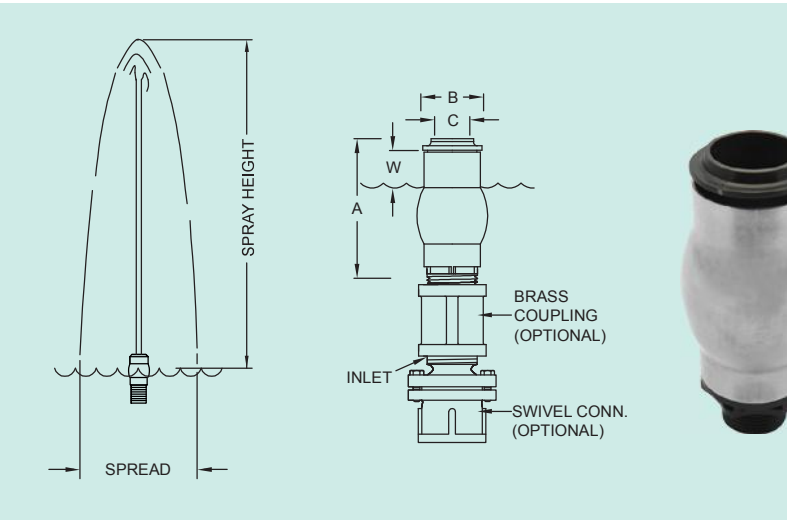
**Contact Crystal Fountains for detailed specifications, installation and operation details.*

DIMENSIONS						PERFORMANCE						
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	3.1	4.6	6.1	9.2	12.2	15.3
NPW100	4"	610	496	102	7	LPM	1359.0	1654.0	1900.0	2309.0		
						Head (m.)	10.7	15.6	19.9	28.4		
						Spread (cm.)	610	854	1098	1403		
NPW200	6"	635	496	102	7	LPM		2173.0	2593.0	2888.0	3290.0	3611.0
						Head (m.)	15	20.5	24.7	31.7	36	
						Spread (cm.)		732	1159	1342	1829	2317
Options		Add Suffix										
Wave Suppression Device		W										

NIF Series – Low Profile Foam Jet

A column of frothy, white, aerated water that’s beautiful when illuminated. Recommended for small and medium-sized displays in shallow pools. Low profile of jet permits installation in shallow pools with a neat appearance. Easy to install with 15° adjustment after installation. Made of stainless steel and plastic. **Water level independent.**

VISIBILITY	■ ■ ■ ■ ■
SOUND LEVEL	■ ■ ■ □ □
WIND RESISTANCE	■ ■ ■ □ □
SPLASH/MIST	■ ■ ■ □ □
EFFICIENCY	■ ■ ■ □ □



**Contact Crystal Fountains for detailed specifications, installation and operation details.*

DIMENSIONS							PERFORMANCE										
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	0.4	0.6	1	1.3	1.6	1.9	2.2	2.5	2.8	3.1
NIF100	1"	140	64	32	26	4	LPM	57.0	72.0	85.0	98.0	110.0	115.0	125.0	134.0	142.0	148.0
							Head (m.)	1.4	2.2	3.1	4	5.1	5.7	6.6	7.7	8.4	9.2
							Spread (cm.)	16	21	31	54	61	64	67	72	87	92

STREAM NOZZLES

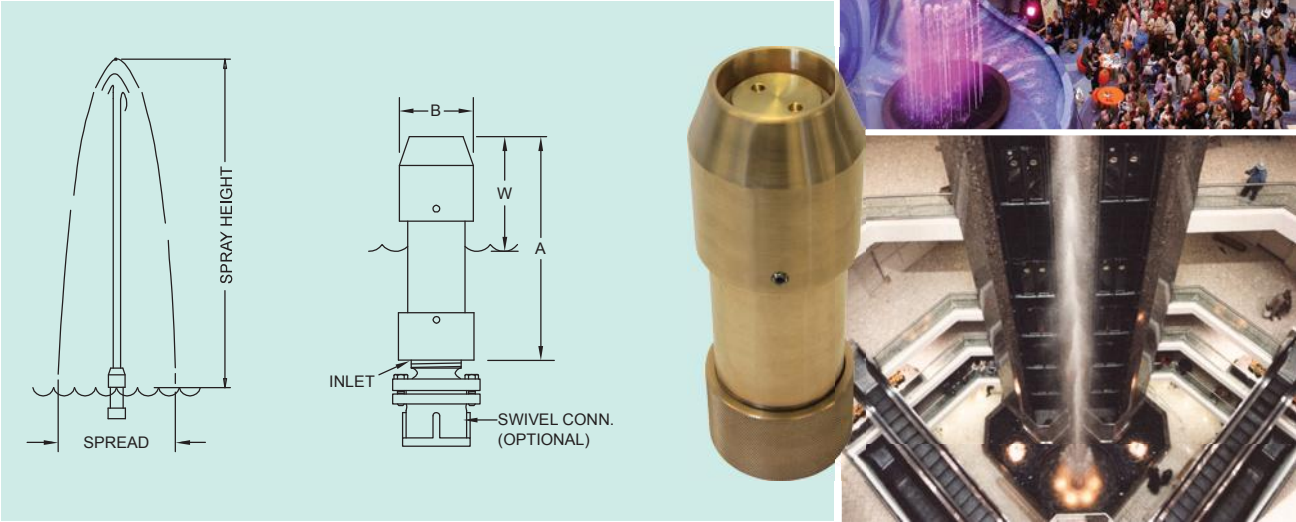
Clear water, Shiny, Refracts light, Holds shape



NBJ Series – Burst Jet

The NBJ Burst Jet is used for high single shot or “burst” effects of up to 27.5m. The design of the jet allows adjustment of the spray pattern and volume of the water. The jet creates a tight stream that rises rapidly but disperses at its peak to fall gently in a controlled manner. This jet requires a systems approach. Made of cast bronze. **Not water level independent.**

VISIBILITY	■	■	■	□	□
SOUND LEVEL	■	■	■	□	□
WIND RESISTANCE	■	■	□	□	□
SPLASH/MIST	■	■	■	■	□
EFFICIENCY	■	■	■	□	□



*Contact Crystal Fountains for detailed specifications, installation and operation details.

DIMENSIONS						PERFORMANCE											
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	1.5	3	4.5	6	9	12	15.5	18.5	21.5	24.5	27.5
NBJ150	1 1/2"	216	70	102	7	LPM	87.0	121.0	148.0	197.0	254.0	284.0	314.0	341.0	363.0	390.0	416.0
						Head (m.)	2	4.5	7	11.5	19.5	28	35.5	46	53	61	70
						Spread (m.)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Options				Add Suffix													
Spray Height Adjustment Key			K														

NEA Series – Plume Jet

A long and slender column of water with an attractive plume shape at the end. The NEA Plume Jet holds its shape in vertical effects, angled spray bars and rings. Easy installation with an integral swivel connector. A large variety of stream sizes available and has universal applications. Stream diameters starting at 2mm–39mm. Available in male or female inlet types. Made of cast bronze and brass. **Not water level dependent.**



This product (excluding NEA200, NEA300 and NEA400) is available under our Quick Ship program! See page 15 for more details.

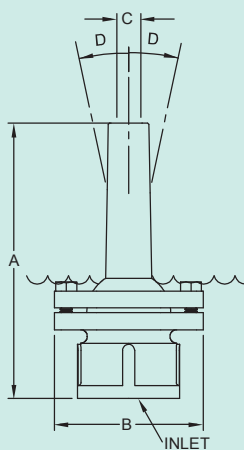
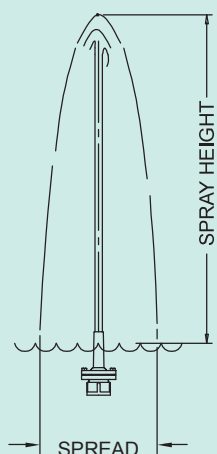


VISIBILITY	■ ■ ■ □ □
SOUND LEVEL	■ ■ ■ □ □
WIND RESISTANCE	■ ■ □ □ □
SPLASH/MIST	■ ■ ■ □ □
EFFICIENCY	■ ■ ■ □ □

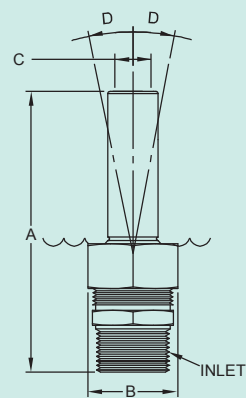


**Contact Crystal Fountains for detailed specifications, installation and operation details.*

NEA Series – Plume Jet



NEA200 - NEA400



NEA012 - NEA151

DIMENSIONS

PERFORMANCE

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	1.6	3.1	4.6	6.1	9.2	12.2	15.3	18.3	21.4	24.4	28.5	30.5
NEA012	1/8"	48	13	4	15°	2	LPM	4.0	4.0										
							Head (m.)	2.5	4.3										
							Spread (cm.)	13	18										
NEA025	1/4"	58	16	7	18°	3	LPM	9.0	11.0	13.0									
							Head (m.)	2.5	4.3	6.1									
							Spread (cm.)	16	18	23									
NEA037	3/8"	70	20	7	18°	4	LPM	15.0	21.0	23.0	25.0								
							Head (m.)	2.5	4.3	6.1	8.3								
							Spread (cm.)	16	21	31	41								
NEA050	1/2"	89	26	10	15°	5	LPM	26.0	34.0	45.0	53.0								
							Head (m.)	2.5	4.3	6.4	8.3								
							Spread (cm.)	21	31	41	59								
NEA078	3/4"	99	32	13	15°	7	LPM	42.0	61.0	76.0	95.0								
							Head (m.)	2.2	4	5.8	10.1								
							Spread (cm.)	21	31	41	59								
NEA101	1"	121	39	16	20°	8	LPM	53.0	72.0	91.0	106.0	125.0							
							Head (m.)	2.5	4.9	8	8.3	12.2							
							Spread (cm.)	21	31	41	59	102							
NEA151	1 1/2"	156	51	16	21°	10	LPM	68.0	95.0	117.0	132.0	182.0	223.0						
							Head (m.)	2.8	4.9	7.7	9.2	11	14.7						
							Spread (cm.)	31	61	89	110	150	199						
NEA200	2"	191	112	23	15°	12	LPM		170.0	212.0	254.0	326.0	428.0	443.0					
							Head (m.)		3.7	5.8	8	13.5	21.1	22.6					
							Spread (cm.)		46	67	117	163	194	224					
NEA300	3"	312	153	29	15°	14	LPM		299.0	356.0	439.0	519.0	659.0	746.0	871.0				
							Head (m.)		3.7	5.8	8.3	8.3	17.7	25	36				
							Spread (cm.)		N/A	N/A	N/A	N/A	N/A	N/A	N/A				
NEA400	4"	407	223	39	15°	20	LPM				750.0	980.0	1075.0	1211.0	1488.0	1541.0	1601.0	1878.0	1968.0
							Head (m.)				7.4	11.3	15.6	18.6	25.7	29.6	31.7	33.6	45.8
							Spread (cm.)				N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Options

Add Suffix

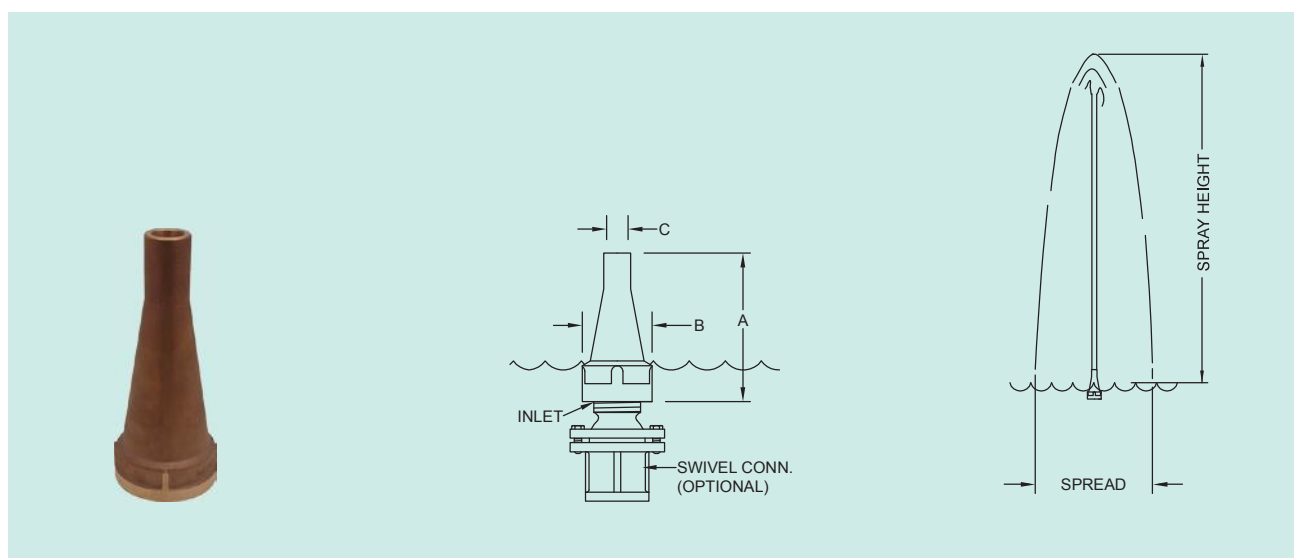
Nozzle Adjustment Key (NEA012 to NEA050) K

NEF Series – Plume Jet

Similar to the NEA, the NEF creates an elongated column of water impressive vertical effects. Primarily for use in medium-sized and large displays with stream diameters ranging from 13mm - 51mm. Optional alignment swivel available (ASU). Made of cast bronze.

Not water level dependent.

VISIBILITY	■ ■ ■ ■ □
SOUND LEVEL	■ ■ ■ □ □
WIND RESISTANCE	■ ■ □ □ □
SPLASH/MIST	■ ■ ■ □ □
EFFICIENCY	■ ■ ■ □ □



**Contact Crystal Fountains for detailed specifications, installation and operation details.*

NEF Series – Plume Jet



DIMENSIONS

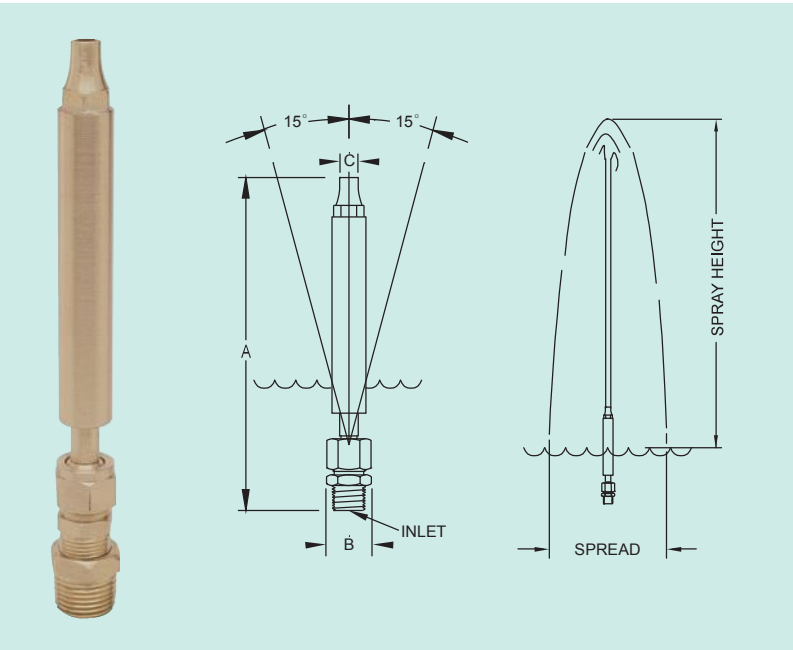
PERFORMANCE

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	1.6	3.1	4.6	6.1	9.2	12.2	15.3	18.3	21.4	24.4	27.5	30.5
NEF100	1"	102	51	13	7	LPM	45.0	61.0	79.0	87.0								
						Head (m.)	2.2	4	5.8	7.43								
						Spread (cm.)	3	3	8	8								
NEF150	1 1/2"	127	64	16	8	LPM		129.0	132.0	144.0	174.0							
						Head (m.)		4.3	6.1	7.4	12.9							
						Spread (cm.)		6	9	11	13							
NEF200	2"	153	77	23	9	LPM		155.0	231.0	265.0	341.0	428.0						
						Head (m.)		4.3	6.5	8.6	12.2	18.6						
						Spread (cm.)		8	12	13	16	21						
NEF300	3"	254	102	29	13	LPM		269.0	295.0	469.0	564.0	651.0	712.0	810.0				
						Head (m.)		3.7	5.8	8	12.9	17.1	19.9	24.7				
						Spread (cm.)		N/A	N/A	N/A	N/A	N/A	N/A	N/A				
NEF400	4"	280	127	40	13	LPM				757.0	1030.0	1139.0	1185.0	1446.0	1597.0	1908.0	2177.0	2271.0
						Head (m.)				7.4	12.9	15.6	17.1	24.7	29.9	40.9	44.2	50.3
						Spread (cm.)				N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NEF500	5"	356	166	51	26	LPM				1552.0	2006.0	2271.0	2461.0	2763.0	2953.0	3180.0	3369.0	3558.0
						Head (m.)				8.3	12.9	16.8	21.4	25	29.6	33.6	39.7	45.8
						Spread (cm.)				N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NES Series – Clear Stream Jet

The NES jet provides a clear stream performance and pressure regulation on manifolds and spray rings where uniform output is required. Provides up to 15 degrees of variance for ease of installation. Nozzle opening is 1/4" and creates a dramatic display when grouped in a traditional arch or circle. Made of brass. **Not water level dependent.**

**Contact Crystal Fountains for detailed specifications, installation and operation details.*



VISIBILITY	■ ■ ■ □ □
SOUND LEVEL	■ ■ ■ □ □
WIND RESISTANCE	■ ■ □ □ □
SPLASH/MIST	■ ■ ■ ■ □
EFFICIENCY	■ ■ ■ □ □

DIMENSIONS						PERFORMANCE			
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	1.6	3.1	4.6
NES050	1/2"	191	26	7	7	LPM	15.0	19.0	23.0
						Head (m.)	3.1	5.8	6.8
						Spread (m.)	N/A	N/A	N/A

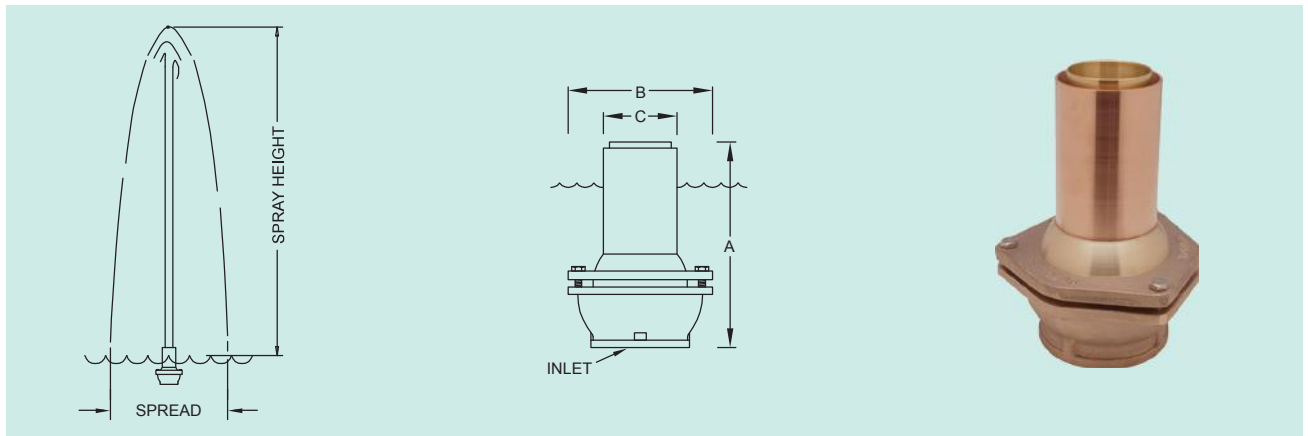
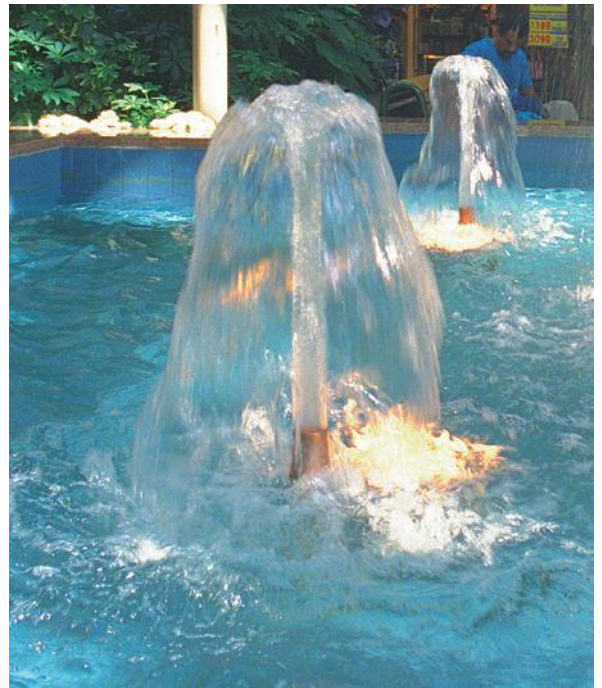
NES Series – Clear Stream Jet



NHC Series – Hollow Column Jet

A hollow column of clear water that when run at low levels, appears to be an overflowing glass tube. Cresting water creates minimum splash. Spectacular when illuminated. Ideal for small pools and quiet locations. Made of cast bronze, brass and copper with integral swivel adjustment. **Not water level dependent.**

VISIBILITY	■ ■ ■ ■ □
SOUND LEVEL	■ ■ ■ ■ □
WIND RESISTANCE	■ ■ ■ ■ □
SPLASH/MIST	■ ■ ■ ■ □
EFFICIENCY	■ ■ ■ ■ □



**Contact Crystal Fountains for detailed specifications, installation and operation details.*

DIMENSIONS

PERFORMANCE

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	0.4	0.6	1	1.3	1.6	2.5	3.1
NHC100	1"	140	64	29	2	LPM	42.0	61.0	76.0	87.0	140.0		
						Head (m.)	1	1.3	2.2	2.5	3.1		
						Spread (cm.)	13	23	31	31	36		
NHC150	1 1/2"	178	83	42	3	LPM	83.0	117.0	140.0	163.0	178.0	227.0	254.0
						Head (m.)	1	1.3	1.9	2.2	2.8	4	5.2
						Spread (cm.)	23	31	36	41	51	69	97
NHC200	2"	185	115	54	4	LPM	110.0	144.0	174.0	201.0	220.0	280.0	307.0
						Head (m.)	0.6	1.3	1.6	2.2	2.5	4	4.6
						Spread (cm.)	23	34	41	46	69	122	122
NHC300	3"	229	153	77	7	LPM		284.0	344.0	409.0	469.0	598.0	689.0
						Head (m.)		1	1.6	1.9	1.9	3.1	4
						Spread (cm.)		46	61	77	92	107	143

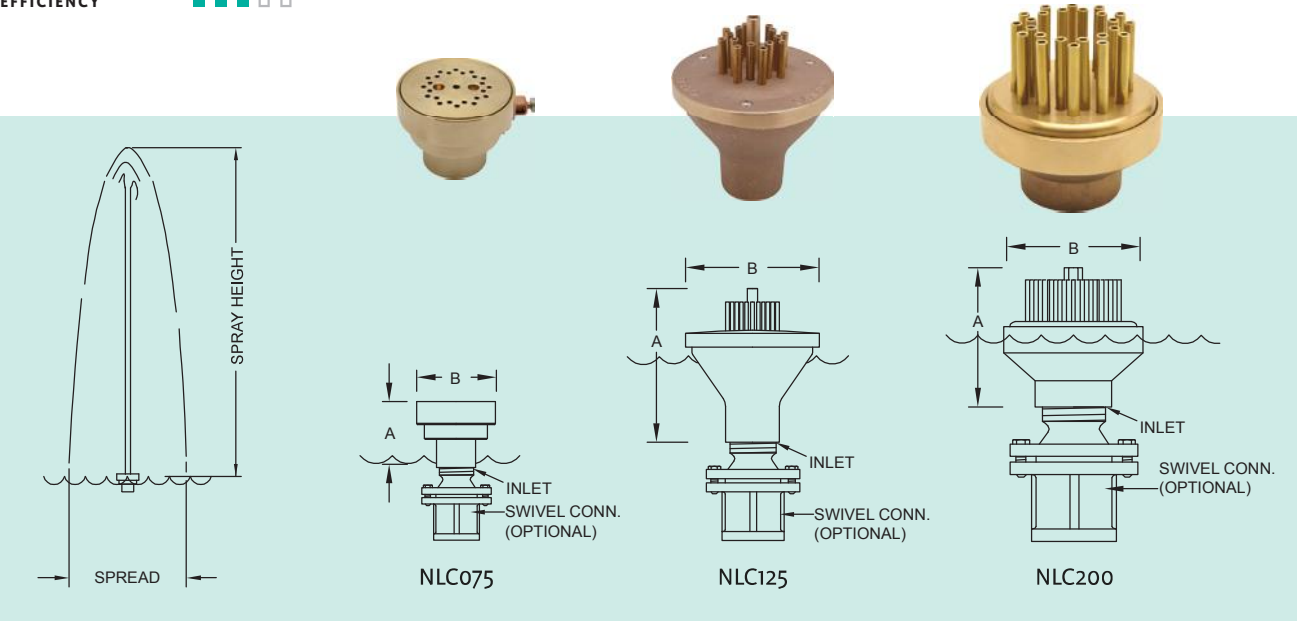
NLC Series – Column Jet

A simple, vertical column of clear water ideal as a focal point for small and medium-sized displays. Composed of an array of smaller, vertical jets to create a delicate upward spray. Also appropriate as a secondary effect for large displays. Optional alignment swivel available (ASU). Made of machined bronze and brass with removable top for easy cleaning. **Not water level dependent.**



This product (NLC075 only) is available under our Quick Ship program! See page 15 for more details.

VISIBILITY	■ ■ ■ ■ ■
SOUND LEVEL	■ ■ ■ ■ ■
WIND RESISTANCE	■ ■ ■ ■ ■
SPLASH/MIST	■ ■ ■ ■ ■
EFFICIENCY	■ ■ ■ ■ ■



*Contact Crystal Fountains for detailed specifications, installation and operation details.

DIMENSIONS						PERFORMANCE										
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	0.6	1	1.3	1.6	1.9	2.5	3.1	3.7	4.6	6.1
NLC075	1"	51	64	51	2	LPM	38.0	45.0	53.0	57.0	61.0					
						Head (m.)	1.3	1.9	2.5	2.8	3.4					
						Spread (cm.)	21	26	26	31	31					
NLC125	1 1/4"	147	127	51	3	LPM		61.0	76.0	91.0	95.0	114.0	125.0	144.0		
						Head (m.)		1.6	1.9	2.8	3.1	4	4.6	6.1		
						Spread (cm.)		31	39	51	61	61	77	92		
NLC200	2"	127	127	51	4	LPM				151.0	165.0	191.0	216.0	235.0	261.0	295.0
						Head (m.)				2.8	3.4	3.7	5.5	6.5	7.7	9.8
						Spread (cm.)				61	72	82	92	102	112	133

Options (NLC075 Only)	Add Suffix
Cover Removal Key	K
Winter Cover	W

NLF Series – Crown Jet

A versatile, smaller jet that can be used in play decks* or in a fountain. Ideal for small and medium sized pools providing gentle spray coverage and cooling. This effect creates a pretty, vertical tulip shape (also see NLF076 for a fanning effect). Optional alignment swivel available (ASU). Made of machined cast bronze with removable, flush-mounted faceplate for easy cleaning with optional security key. Optional winter cover also available. **Not water level dependent.**

* For interactive play, do not exceed 6 meters per second.

VISIBILITY	■ ■ ■ ■ □
SOUND LEVEL	■ □ □ □ □
WIND RESISTANCE	■ ■ ■ ■ □
SPLASH/MIST	■ ■ ■ ■ ■
EFFICIENCY	■ ■ ■ □ □



This product is available under our Quick Ship program! See page 15 for more details.



*Contact Crystal Fountains for detailed specifications, installation and operation details.

DIMENSIONS					PERFORMANCE					Options	Add Suffix
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	0.6	1	1.3	1.9	Cover Removal Key	K
NLF075	1"	64	51	2	LPM	15.0	19.0	23.0	26.0	Winter Cover	W
					Head (m.)	1	1.6	1.9	3.1		
					Spread (cm.)	4	6	8	11		
NLF076	1"	64	51	2	LPM	19.0	19.0	23.0	34.0		
					Head (m.)	1.3	1.6	2.2	3.4		
					Spread (cm.)	9	14	20	31		
					Throw (m.)	0.6	1.3	1.3	2.2		

NLG Series – Ground Jet

A popular, multi-purpose spray jet that can be used in small and medium-sized fountains and playdecks*. Big brother to the NLF (Crown Jet), this nozzle is 127mm in diameter and creates a larger volume of gentle spray. Available with 4 interchangeable tops for different spray patterns that provide up to 3.5m of spread. Made of machined cast bronze with removable faceplate for easy cleaning with an optional security key. Optional alignment swivel available (ASU). Optional winter cover also available. **Not water level dependent.**

* For interactive play, do not exceed 6 meters per second.



VISIBILITY	■ ■ ■ ■ □
SOUND LEVEL	■ ■ □ □ □
WIND RESISTANCE	■ □ □ □ □
SPLASH/MIST	■ ■ ■ ■ □
EFFICIENCY	■ ■ ■ □ □

NLG200

5° 8° 5°

NLG200

NLG201

5°

NLG201

NLG202

6° 4° 2°

NLG202

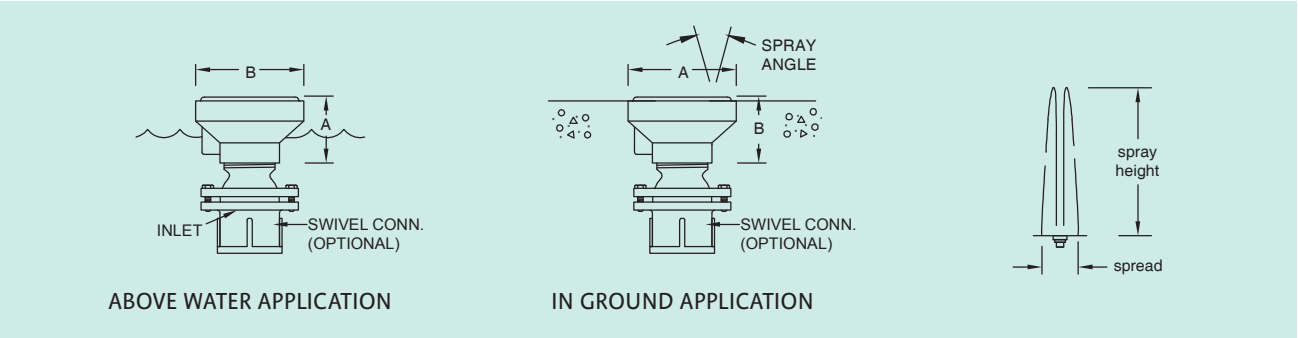
NLG203

5° 10° 5°

NLG203

*Contact Crystal Fountains for detailed specifications, installation and operation details.

NLG Series – Ground Jet

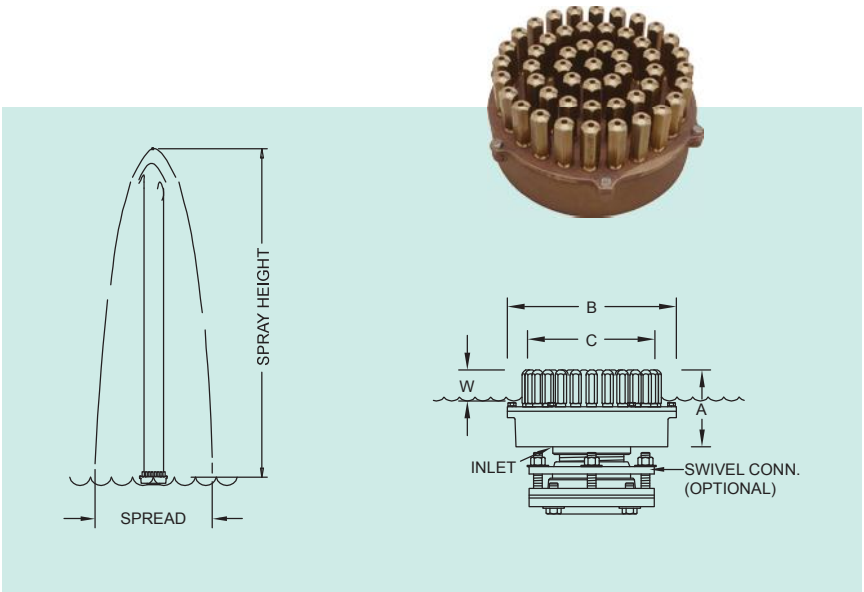


DIMENSIONS					PERFORMANCE			
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	1	1.6	3.1
NLG200	2"	77	127	1	LPM	114.0	148.0	220.0
					Head (m.)	1.6	2.5	5.5
					Spread (cm.)	122	183	336
NLG201	2"	77	127	1	LPM	98.0	129.0	189.0
					Head (m.)	1.6	2.5	4.9
					Spread (cm.)	7	12	21
NLG202	2"	77	127	1	LPM	95.0	121.0	178.0
					Head (m.)	1.6	2.5	5.2
					Spread (cm.)	92	138	244
NLG203	2"	77	127	1	LPM	98.0	129.0	182.0
					Head (m.)	1.6	2.5	4.6
					Spread (cm.)	138	206	336
Options		Add Suffix						
Security Key		K						
Winter Cover		W						

NPA Series – Column Pod

A large, vertical column consisting of 3 concentric rows of clear stream nozzles with one central nozzle. Available in 3 different stream sizes and can have spray heights up to 12m. Best used in larger pools providing excellent viewing at great distances, especially when illuminated. Optional alignment swivel available (ASU). Made of cast bronze with plume nozzles. **Not water level dependent.**

VISIBILITY	■ ■ ■ ■ ■
SOUND LEVEL	■ ■ ■ ■ □
WIND RESISTANCE	■ ■ ■ ■ □
SPLASH/MIST	■ ■ ■ □ □
EFFICIENCY	■ ■ ■ □ □



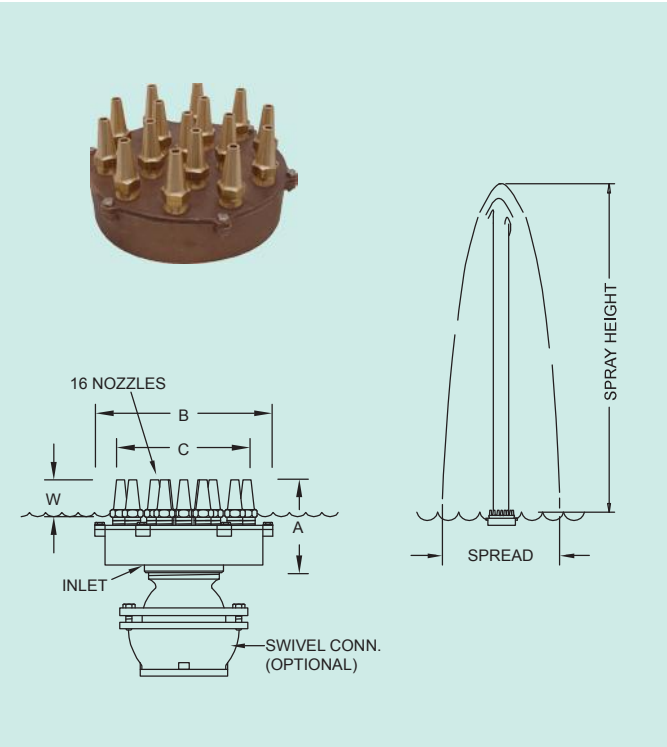
**Contact Crystal Fountains for detailed specifications, installation and operation details.*

DIMENSIONS									PERFORMANCE						
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Stream Size (mm)	No. of Jets	Suction Strainer Openings max. mm.	Spray height (m.)	3.1	4.6	6.1	7.7	9.2	12.2
NPA100	4"	153	254	204	51	229	51	4	LPM	803.0	984.0	1086.0	1170.0	1397.0	
									Head (m.)	5.2	8.6	10.1	11.3	16.5	
									Spread (cm.)	153	183	214	244	290	
NPA200	4"	229	305	254	77	254	36	5	LPM	1098.0	1363.0	1590.0			
									Head (m.)	6.1	9.2	12.2			
									Spread (cm.)	153	199	244			
NPA300	6"	267	407	305	77	305	36	5	LPM			1590.0	1817.0	2006.0	2385.0
									Head (m.)			10.7	12.2	13.8	16.8
									Spread (cm.)			275	305	336	366

NPD Series – Mist Column Pod

Similar to the Column Pod (NPA), the NPD produces a majestic, clear column of more misty and lacy water. A smaller number of concentric jets produce a less dense column of water. Ideal for medium to large pools and works well in a grouping. Produces a good visual effect from a distance and holds light well. Made of machined brass and cast bronze with 16 custom precision nozzles. Optional alignment swivel available (See ASU). **Not water level dependent.**

VISIBILITY	■ ■ ■ ■ ■
SOUND LEVEL	■ ■ ■ ■ □
WIND RESISTANCE	■ ■ ■ ■ □
SPLASH/MIST	■ ■ ■ ■ □
EFFICIENCY	■ ■ ■ □ □



**Contact Crystal Fountains for detailed specifications, installation and operation details.*

DIMENSIONS								PERFORMANCE							
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Stream Size (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	3.1	4.6	6.1	7.7	9.2	10.7	12.2
NPD100	3"	204	254	229	77	229	4	LPM	379.0	492.0	556.0	628.0	700.0	768.0	837.0
								Head (m.)	4	7.4	9.2	12.5	14.1	17.1	19.9
								Spread (cm.)	122	153	183	214	244	275	305

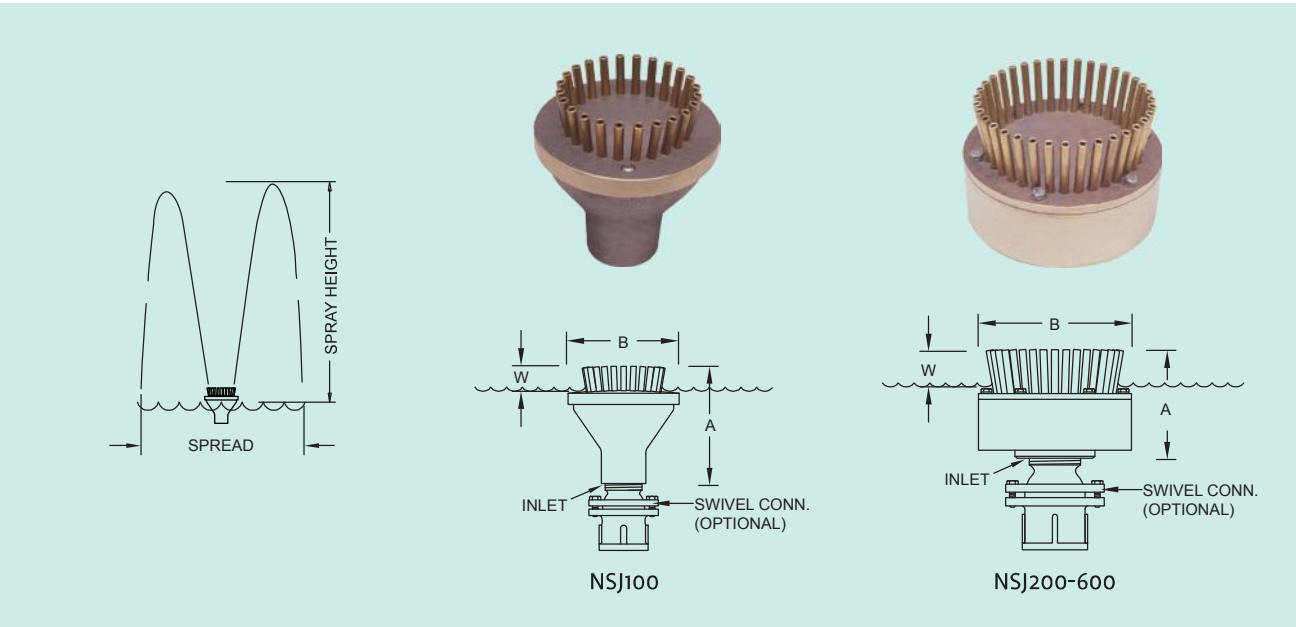
NSJ Series – Spray Jewel Jet

A graceful, outward spray effect that can be used as a centerpiece for small to large fountains and produces a delicate tulip effect. A popular and versatile jet, the Spray Jewel can shoot in height from 1m to 5m. Individual nozzles produce jewel-like streams when illuminated at night. Made of machined bronze and brass with removable top for easy cleaning. Optional alignment swivel available (See ASU). **Not water level dependent.**

**Contact Crystal Fountains for detailed specifications, installation and operation details.*



VISIBILITY	■ ■ ■ ■ □
SOUND LEVEL	■ ■ ■ ■ □
WIND RESISTANCE	■ ■ ■ ■ □
SPLASH/MIST	■ ■ ■ ■ □
EFFICIENCY	■ ■ ■ ■ □



NSJ Series – Spray Jewel Jet



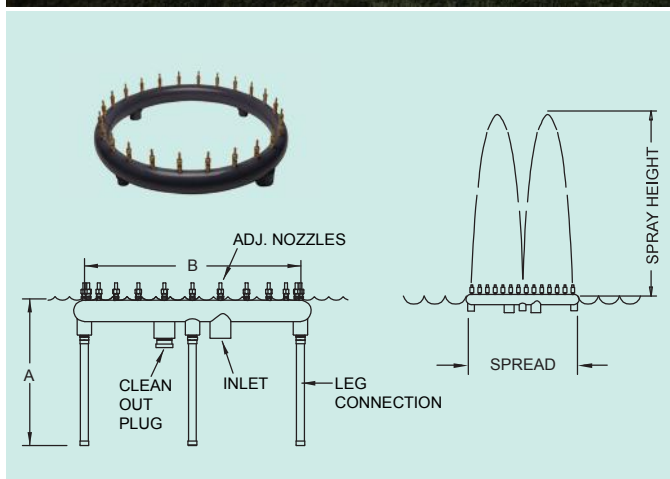
DIMENSIONS

PERFORMANCE

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	w dim. (mm)	No. of Jets	Spray height (m.)	1	1.6	2.5	3.1	4.6
NSJ100	1 ¼"	127	115	51	24	LPM	159.0	201.0	235.0		
						Head (m.)	1.3	2.2	3.4		
						Spread (cm.)	153	244	366		
NSJ200	2"	127	178	51	36	LPM	235.0	303.0	352.0		
						Head (m.)	1.3	2.2	3.4		
						Spread (cm.)	153	244	366		
NSJ300	3"	134	248	51	48	LPM	201.0	276.0	379.0	420.0	
						Head (m.)	1.6	2.5	3.7	4.3	
						Spread (cm.)	123	183	244	336	
NSJ400	4"	197	293	102	36	LPM	435.0	651.0	939.0	1189.0	1624.0
						Head (m.)	1.6	2.5	3.7	4.3	6.1
						Spread (cm.)	153	244	366	458	671
NSJ600	6"	242	362	102	48	LPM	579.0	1056.0	1249.0	1586.0	2158.0
						Head (m.)	1.6	2.5	3.7	4.3	6.1
						Spread (cm.)	183	244	397	458	671

NSR Series – Spray Ring

A classic, circular pattern of individual sprays with an outstanding visual effect. The spray appears lacy by day and sparkles when illuminated by night. Adjustable nozzles permit infall, straight or outfall spray pattern. Available in multiple sizes from 0.3m - 2.5m diameters but can be customized in size and shape to suit your needs. Made of extruded PVC with individually adjustable brass nozzles. **Not water level dependent.**



VISIBILITY	■ ■ ■ ■ ■
SOUND LEVEL	■ ■ ■ ■ ■
WIND RESISTANCE	■ ■ ■ ■ ■
SPLASH/MIST	■ ■ ■ ■ ■
EFFICIENCY	■ ■ ■ ■ ■

DIMENSIONS

PERFORMANCE

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	No. of Jets	Pipe Diameter (mm)	Suction Strainer Openings max. (mm)	Spray height (m.)	0.6	1	1.3	1.6	1.9	2.5	3.1	3.7	4.3	
							Head (m.)	1.9	2.5	3.1	3.7	4.6	6.1	7.7	9.2	10.7	
Nozzle Opening = 4 mm (Fine Spray)																	
NSR122	1"	458	305	16	26	2	GPM	32.0	37.0	46.0							
NSR222	1" x 2	458	610	22	32	2		41.0	51.0	60.0							
NSR322	1 ¼" x 2	458	915	47	32	2		87.0	110.0	128.0	151.0	173.0					
NSR422	1 ¼" x 2	458	1220	50	39	2		91.0	114.0	137.0	160.0	182.0					
NSR522	1 ¼" x 2	458	1524	56	39	2		105.0	128.0	155.0	182.0	205.0	255.0				
NSR622	1 ¼" x 3	458	1829	75	51	2		137.0	173.0	205.0	241.0	273.0	341.0				
NSR822	1 ¼" x 4	458	2439	113	51	2		205.0	260.0	310.0	360.0	410.0	514.0	569.0			
Nozzle Opening = 5 mm (Heavy Spray)																	
NSR223	1 ¼"	458	610	24	51	3	GPM	114.0	160.0	219.0	237.0	251.0					
NSR323	1 ¼" x 2	458	915	36	51	3		137.0	228.0	328.0	355.0	391.0					
NSR423	1 ½" x 2	458	1220	48	51	3		205.0	319.0	437.0	482.0	546.0					
NSR523	1 ½" x 2	458	1524	60	51	3		241.0	382.0	519.0	555.0	591.0	664.0				
NSR623	1 ½" x 3	458	1829	72	51	3		273.0	437.0	601.0	655.0	737.0	792.0				
NSR823	1 ½" x 4	458	2439	84	64	3		364.0	564.0	764.0	837.0	910.0	1028.0	1110.0	1182.0	1264.0	

*Contact Crystal Fountains for detailed specifications, installation and operation details.

**Spread for NSR is the same as b dim.

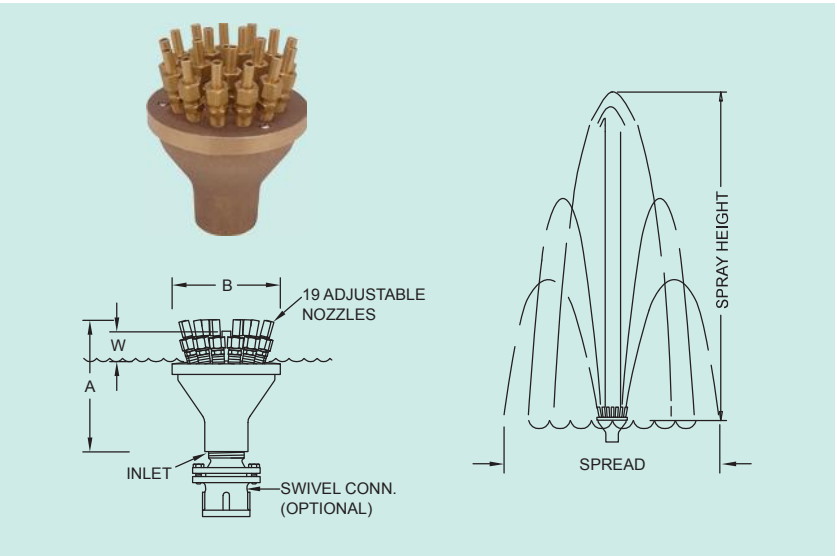
NSR Series – Spray Ring



NWA Series – Adjustable WaterCastle Jet

Similar to the WaterCastle (NWC), this jet produces a graceful spray effect but has adjustable nozzles for creative spray patterns. With adjustable spray patterns, spread can go up to 5m. Ideal for small and medium sized displays. Made of cast bronze, machined brass and copper with adjustable nozzles and removable cap for easy cleaning. Optional alignment swivel available (See ASU). **Not water level dependent.**

VISIBILITY	■ ■ ■ ■ □
SOUND LEVEL	■ □ □ □ □
WIND RESISTANCE	■ ■ ■ □ □
SPLASH/MIST	■ ■ ■ ■ ■
EFFICIENCY	■ ■ ■ □ □



*Contact Crystal Fountains for detailed specifications, installation and operation details.

DIMENSIONS						PERFORMANCE								
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.7
NWA125	1 1/4"	147	127	51	4	LPM	79.0	83.0	98.0	106.0	117.0	121.0	132.0	144.0
						Head (m.)	1.9	2.2	2.8	3.1	3.4	4	4.9	5.8
						Spread (cm.)	168	183	260	275	336	336	366	488

NWC Series – WaterCastle Jet

A commercial quality, popular three-tiered effect of clear streams nozzles. Ideal for small and medium sized pools. Nozzle has individual concentric streams producing a layered effect. Illuminates well at night. Made of cast bronze, brass and copper with removable cap for easy cleaning. Optional alignment swivel available (See ASU). **Not water level dependent.**

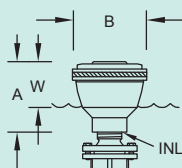
VISIBILITY	■ ■ ■ ■ ■
SOUND LEVEL	■ ■ ■ ■ ■
WIND RESISTANCE	■ ■ ■ ■ ■
SPLASH/MIST	■ ■ ■ ■ ■
EFFICIENCY	■ ■ ■ ■ ■



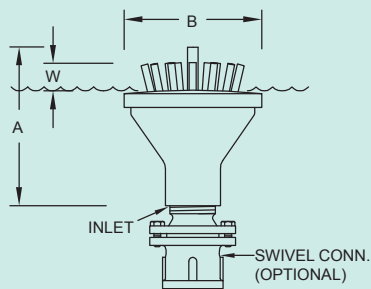
This product (NWC075 only) is available under our Quick Ship program! See page 15 for more details.



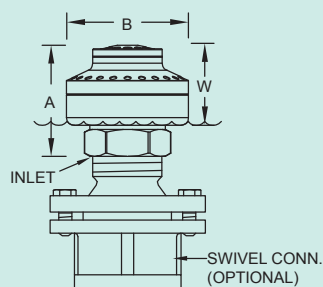
NWC075 - 31
nozzles



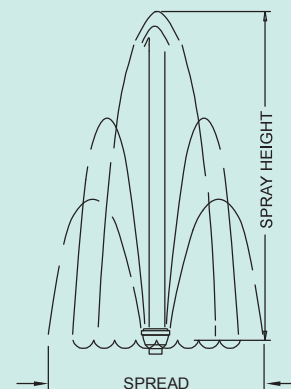
NWC125 - 25
nozzles



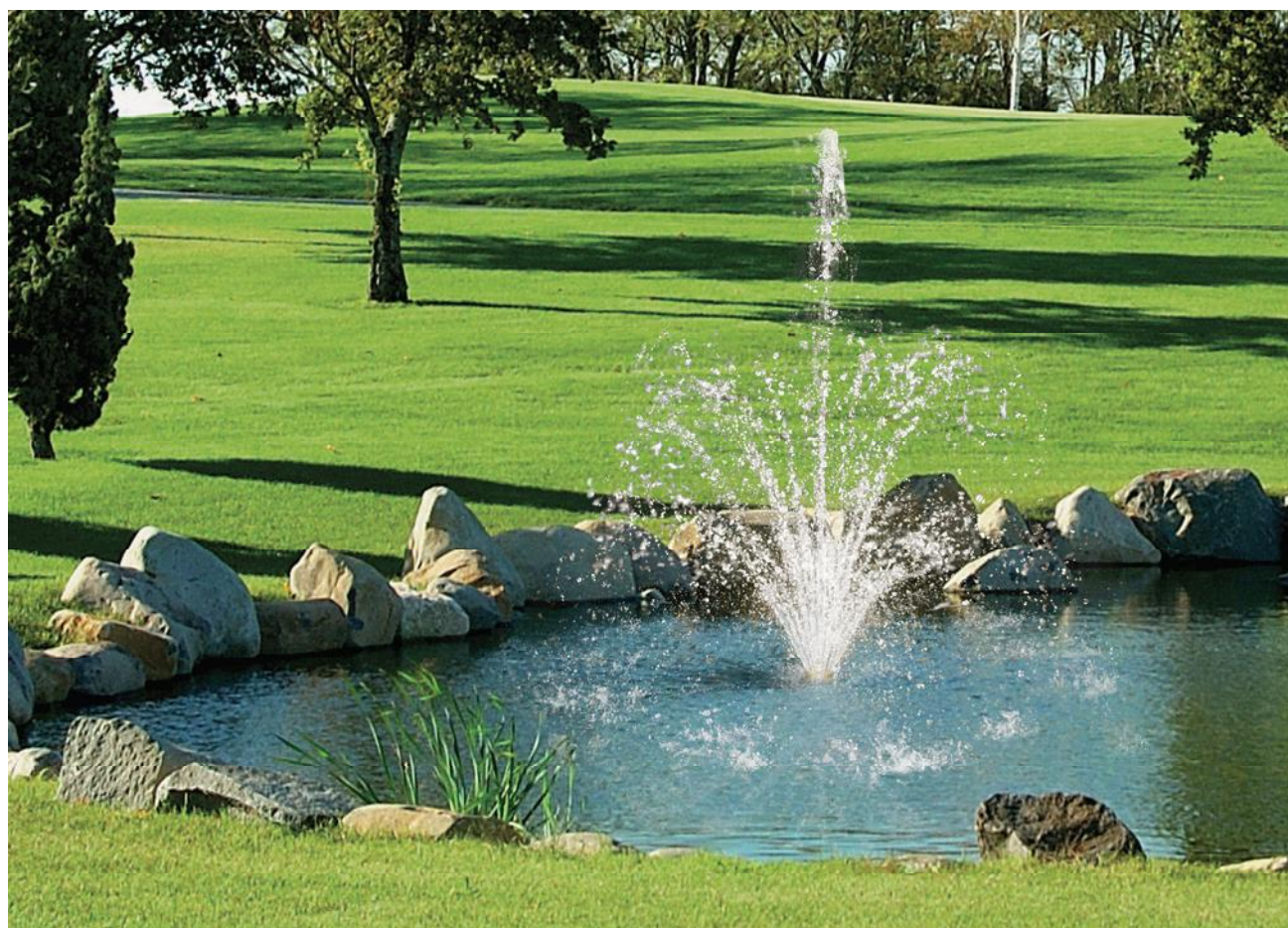
NWC150 - 25
nozzles



NWC151 - 37
nozzles



NWC Series – WaterCastle Jet



**Contact Crystal Fountains for detailed specifications, installation and operation details.*

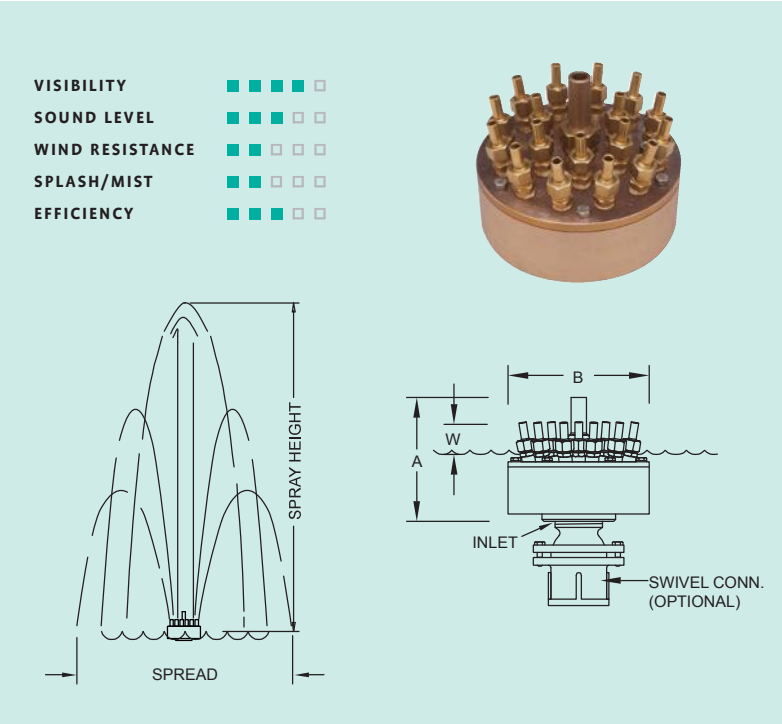
DIMENSIONS

PERFORMANCE

Part No.	Inlet (b.s.p.t.)	a dim. (mm.)	b dim. (mm.)	w dim. (mm.)	Suction Strainer Openings max. mm.	Spray height (m.)	1	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.4	3.7	4	4.3	4.6
NWC075	¾"	77	83	26	2	LPM	42.0	53.0	68.0	79.0									
						Head (m.)	2.2	3.1	3.7	8.6									
						Spread (cm.)	77	92	153	199									
NWC125	1 ¼"	147	127	26	4	LPM	72.0	79.0	87.0	95.0	106.0	114.0	125.0						
						Head (m.)	1.9	2.2	2.5	3.1	3.7	4.3	4.9						
						Spread (cm.)	92	122	153	183	214	244	275						
NWC150	1 ½"	93	102	64	3	LPM	148.0	159.0	174.0	193.0	204.0	216.0	223.0	235.0	242.0	254.0	265.0	276.0	
						Head (m.)	1.9	2.2	2.6	2.9	3.4	3.7	3.9	4.2	4.5	4.8	5.4	5.7	
						Spread (cm.)	153	168	199	229	260	275	290	321	336	366	381	397	
NWC151	1 ½"	93	102	64	3	LPM	201.0	223.0	242.0	261.0	280.0	291.0	307.0	322.0	333.0	344.0	356.0	379.0	
						Head (m.)	1.9	2.3	2.6	2.9	3.4	3.7	3.9	4.3	4.6	4.9	5.2	5.8	
						Spread (cm.)	183	214	244	260	290	321	336	366	381	412	442	473	

NWD Series – Multi-Adjustable WaterCastle Jet

A part of the WaterCastle family of jets, this versatile three-tiered spray effect is the largest with the additional ability to adjust nozzles outwardly as well as to adjust height. The intermediate and outer rings of jets are independently height adjustable with controls located on top of the spray head. Can shoot up to 15m in height. Made of machined cast bronze and brass. **Not water level dependent.**



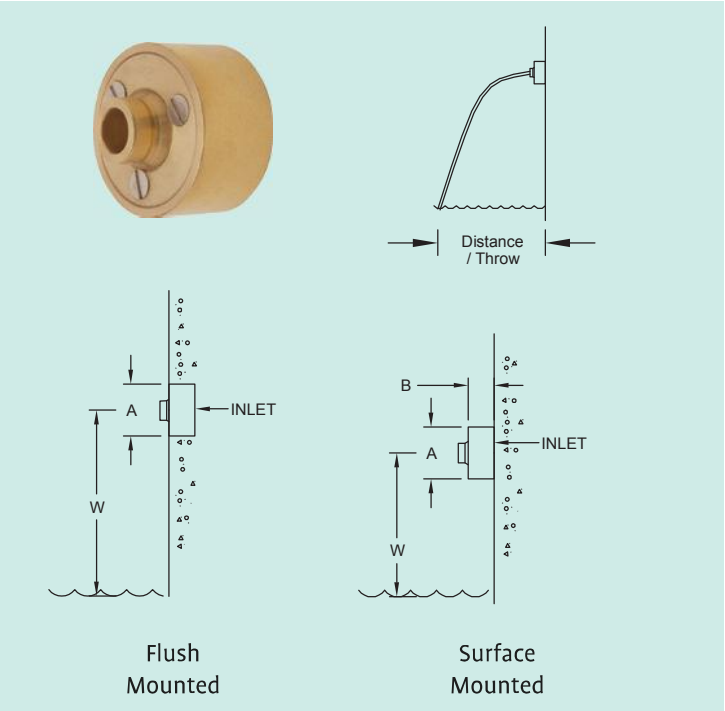
**Contact Crystal Fountains for detailed specifications, installation and operation details.*

DIMENSIONS					PERFORMANCE							
Part No.	Inlet (b.s.p.t.)	a dim. (mm.)	b dim. (mm.)	Suction Strainer Openings max. mm.	Spray height (m.)	2.5	3.1	4.6	6.1	9.2	12.2	15.3
NWD200	2"	178	178	4	LPM	182.0	201.0	261.0	310.0			
					Head (m.)	4.3	5.2	8	9.8			
					Spread (m.)	N/A	N/A	N/A	N/A			
NWD250	2 ½"	254	178	4	LPM	288.0	363.0	450.0	530.0	693.0	833.0	
					Head (m.)	3.4	5.2	7.7	10.1	15	19.3	
					Spread (m.)	N/A	N/A	N/A	N/A	N/A	N/A	
NWD300	3"	254	178	4	LPM		568.0	651.0	742.0	1291.0	1601.0	1889.0
					Head (m.)		4.6	6.1	8	13.2	17.7	21.4
					Spread (m.)		N/A	N/A	N/A	N/A	N/A	N/A
NWD400	4"	305	280	4	LPM		1064.0	1465.0	1620.0	1878.0	2082.0	2267.0
					Head (m.)		4	6.1	8	11.9	14.7	20
					Spread (m.)		N/A	N/A	N/A	N/A	N/A	N/A
NWD600	6"	381	280	4	LPM		1946.0	2502.0	2926.0	3755.0	4164.0	4618.0
					Head (m.)		4	6.1	8	11.9	14.7	20
					Spread (m.)		N/A	N/A	N/A	N/A	N/A	N/A

NMS Series – Mini-Spout Jet

A clear stream jet that falls gracefully into pools from a small wall spout. Used for wall mounted applications either flush or surface. Integral swivel permits directional adjustments to the stream, For use primarily in small architectural pools. Made of extruded brass. **Not water level dependent.**

VISIBILITY	■ ■ ■ ■ □
SOUND LEVEL	■ ■ □ □ □
WIND RESISTANCE	■ ■ ■ □ □
SPLASH/MIST	■ ■ □ □ □
EFFICIENCY	■ ■ ■ □ □



**Contact Crystal Fountains for detailed specifications, installation and operation details.*

DIMENSIONS						PERFORMANCE			
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Throw (m.)	0.2	0.4	0.5
NMS050	1/2"	51	26	508	7	LPM	11.0	15.0	19.0
						Head (m.)	0.6	0.6	0.6
Options		Add Suffix							
Surface Flange		K							
Membrane Clamp		L							

NRC Series – Rain Curtain

A spectacular effect of water droplets raining down mylar laces. Contains:

Laces 7mm mylar:

NRC100 mylar spool length is 30.5m or **NRC101** mylar spool length is 183m.

Nozzles

NRC200 - 0.378LPM with minimum nozzle spacing of 29mm.

Splash suppressor

NRC300 - plastic housing - 1 per nozzle required

Lead Weights

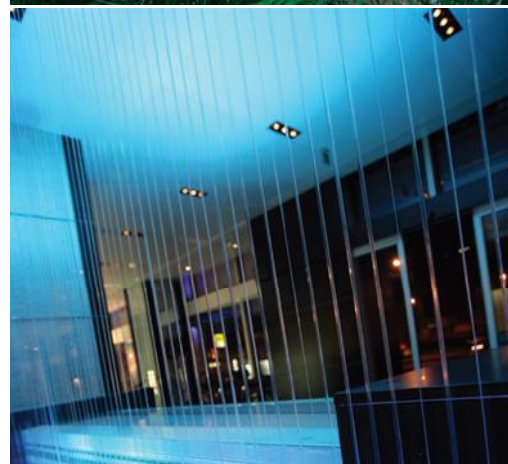
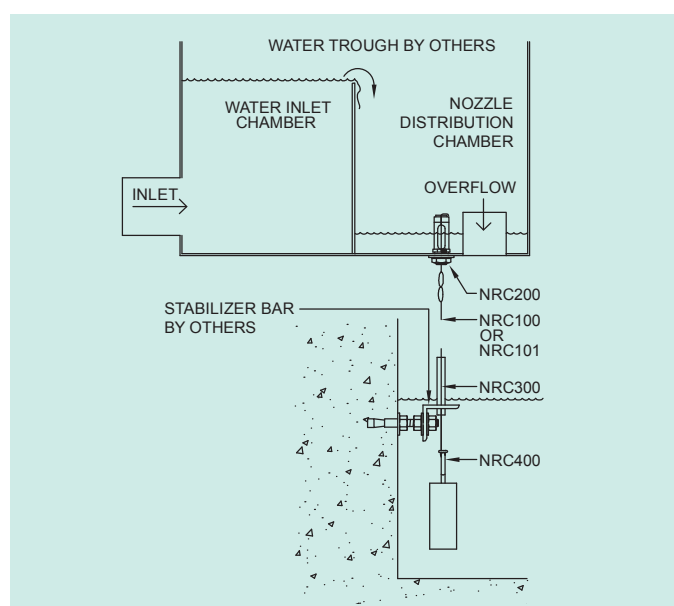
NRC400 - 0.4kg - 1 per nozzle required

Note: Dimension and Performance Chart Not Applicable.

**Contact Crystal Fountains for detailed specifications, installation and operation details.*



Droplets fall from great heights in slow motion, quietly and without splash. Laces may be installed up to 20° and still have water stick to the rain curtain. Curtain can take many forms. Dazzling when illuminated. Use only filtered and softened water to prevent clogging and discoloring of curtain laces.



VISIBILITY	■ ■ ■ ■ □
SOUND LEVEL	■ □ □ □ □
WIND RESISTANCE	■ ■ ■ ■ □
SPLASH/MIST	■ □ □ □ □
EFFICIENCY	■ ■ ■ ■ □

FANNING NOZZLES

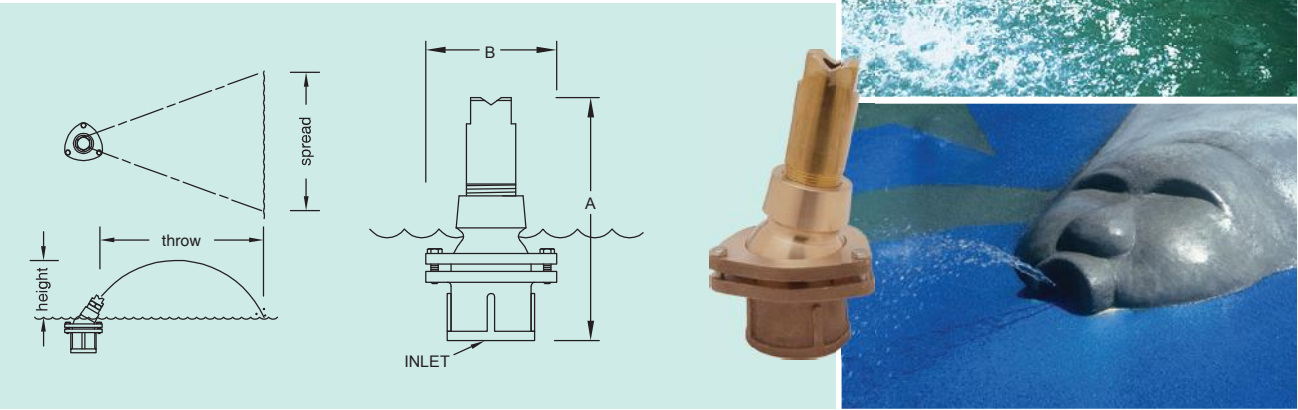
Spreading, cooling, sheeting or finger sprays



NGA Series – Fan Jet

A clear, fan-shaped display with narrow-based spread that can reach heights up to 3m. Ideal when angled to 45° and used as a peripheral effect in a location free of wind. Most effective used in multiples. Made of cast bronze, machined brass and copper with swivel base. **Not water level dependent.**

VISIBILITY	■ ■ ■ □ □
SOUND LEVEL	■ ■ □ □ □
WIND RESISTANCE	■ ■ □ □ □
SPLASH/MIST	■ ■ □ □ □
EFFICIENCY	■ ■ ■ □ □



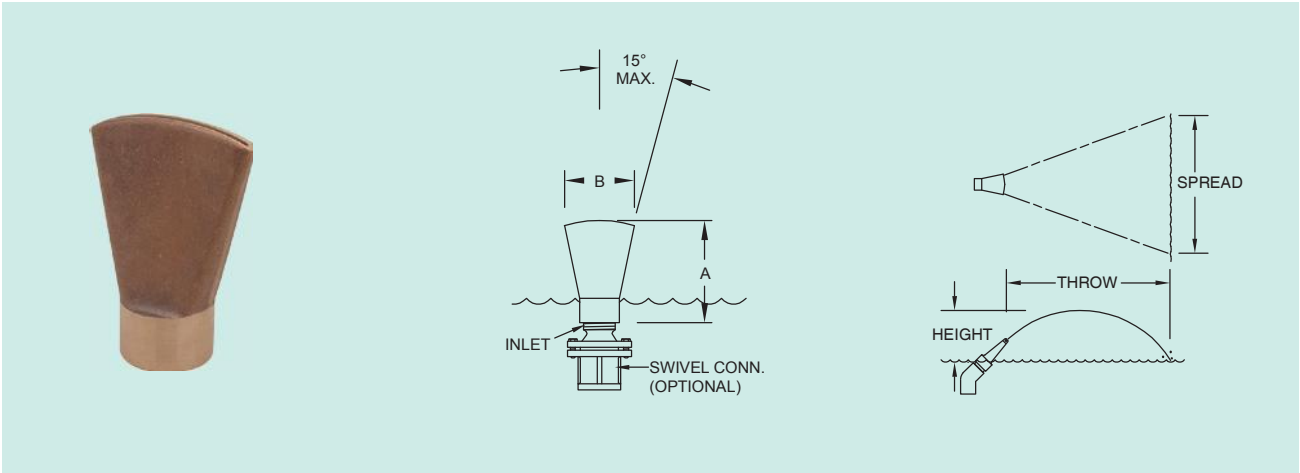
**Contact Crystal Fountains for detailed specifications, installation and operation details.*

DIMENSIONS					PERFORMANCE						
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	Suction Strainer Openings max. mm.	Throw (m.)	0.6	1	1.6	1.9	2.5	3.1
NGA100	1"	102	64	4	LPM	11.0	19.0	19.0			
					Head (m.)	0.9	1.6	2.2			
					Spread (cm.)	54	145	260			
					Height (m.)	0.6	1.3	1.7			
NGA150	1 1/2"	140	83	7	LPM	42.0	53.0	68.0	76.0	87.0	
					Head (m.)	1	1.3	1.9	2.5	3.1	
					Spread (cm.)	16	61	92	214	366	
					Height (m.)	0.8	1.1	1.7	2	2.8	
NGA200	2"	210	115	9	LPM	34.0	42.0	53.0	64.0	72.0	79.0
					Head (m.)	0.6	1	1.3	1.9	2.2	2.5
					Spread (cm.)	16	31	61	122	122	183
					Height (m.)	0.5	0.6	1	1.6	1.6	1.9

NGB Series – Fan Jet

A clear, fan-shaped sheet of water with wider-based spread than the NGA. Fan Jet works best at lower heights. Ideal when angled to 45° and used as a peripheral effect in a location free of wind. Most effective used in multiples. Optional alignment swivel available (ASU). Made of cast bronze. **Not water level dependent.**

VISIBILITY	■ ■ ■ □ □
SOUND LEVEL	■ ■ □ □ □
WIND RESISTANCE	■ ■ □ □ □
SPLASH/MIST	■ ■ □ □ □
EFFICIENCY	■ ■ □ □ □

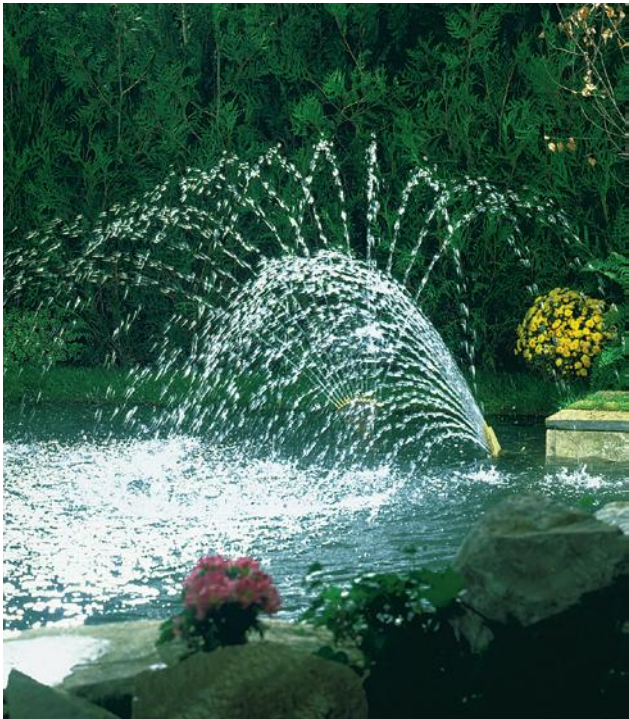
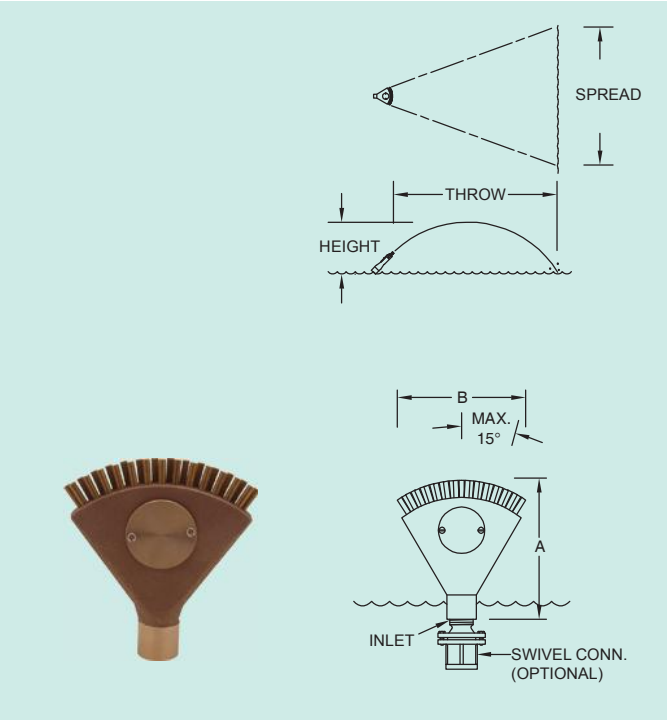


**Contact Crystal Fountains for detailed specifications, installation and operation details.*

DIMENSIONS					PERFORMANCE				
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	Suction Strainer Openings max. mm.	Throw (m.)	0.6	1	1.6	2.2
NGB100	1"	108	74	4	LPM	34.0	45.0	53.0	72.0
					Head (m.)	1	1.3	1.9	2.5
					Spread (cm.)	61	77	168	244
					Height (m.)	0.6	0.7	1.2	1.4

NGF Series – Finger Jet

A finger-like fan spray ideal as a peripheral adornment to vertical central displays in medium-sized installations. Excellent in wall-mounted applications. Effective as an evaporative spray in pools and ponds or in water cooling. Comes with 27 plume jets in two rows. Large cleanout port. Optional alignment swivel available (ASU). Made of bronze, brass and stainless steel. **Not water level dependent.**



**Contact Crystal Fountains for detailed specifications, installation and operation details.*

DIMENSIONS

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	Suction Strainer Openings max. mm.
NGF100	1"	178	153	4

PERFORMANCE

Throw (m.)	0.6	1	1.3	1.6	1.9
LPM	49.0	64.0	72.0	87.0	95.0
Head (m.)	1.3	1.6	1.9	2.5	3.1
Spread (cm.)	153	229	260	305	397
Height (m.)	0.5	0.8	0.9	1.3	1.4

VISIBILITY	■ ■ ■ □ □
SOUND LEVEL	■ ■ □ □ □
WIND RESISTANCE	■ ■ ■ □ □
SPLASH/MIST	■ ■ ■ □ □
EFFICIENCY	■ ■ ■ □ □

NGL Series – Flat Jet

A clear, horizontal, low, fan-shaped display with spread of up to 3m. Ideal as a peripheral effect in a quiet location free of wind. Made of cast bronze and brass with swivel connection. **Not water level dependent.**

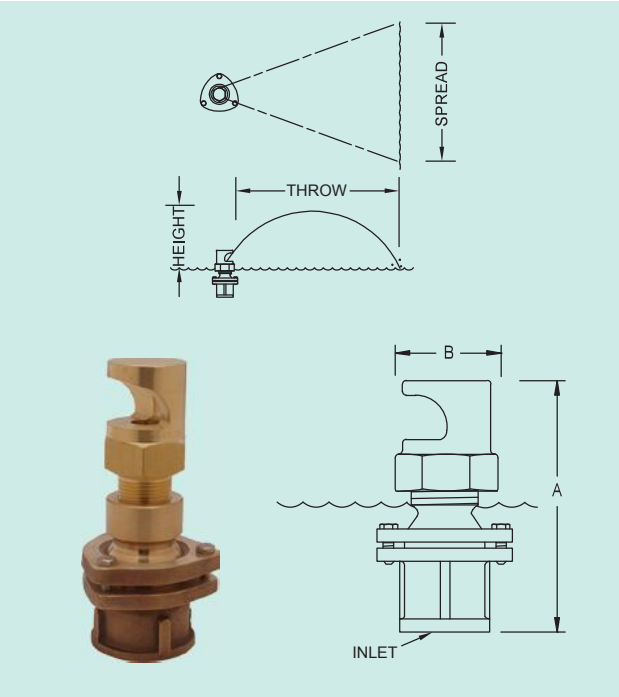
- VISIBILITY

SOUND LEVEL

WIND RESISTANCE

SPLASH/MIST

EFFICIENCY
-



*Contact Crystal Fountains for detailed specifications, installation and operation details.

DIMENSIONS					PERFORMANCE				
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	Suction Strainer Openings max. mm.	Throw (m.)	0.6	1	1.3	1.9
NGL050	½"	115	64	4	LPM	7.0	11.0	15.0	
					Head (m.)	1	1.3	1.9	
					Spread (cm.)	92	138	183	
					Height (cm.)	13	13	13	
NGL075	¾"	140	77	5	LPM	19.0	26.0	34.0	
					Head (m.)	1	1.3	1.6	
					Spread (cm.)	107	153	214	
					Height (cm.)	18	18	18	
NGL100	1"	178	83	5	LPM	38.0	45.0	64.0	125.0
					Head (m.)	1	1	1.6	2.5
					Spread (cm.)	92	122	214	305
					Height (cm.)	23	23	23	23

NLF Series – Crown Jet

A versatile, smaller jet that can be used in play decks* or in a fountain. Ideal for small and medium sized pools providing gentle spray coverage and cooling. This can be used at the edge of a swimming pool angled inward to create delicate finger sprays. Optional alignment swivel available (See ASU). Made of machined cast bronze with removable, flush-mounted faceplate for easy cleaning with optional security key. Optional winter cover also available. **Not water level dependent.**

* For interactive play, do not exceed 6 meters per second.

VISIBILITY	■ ■ ■ ■ □
SOUND LEVEL	■ □ □ □ □
WIND RESISTANCE	■ ■ ■ ■ □
SPLASH/MIST	■ ■ ■ ■ ■
EFFICIENCY	■ ■ ■ □ □



This product is available under our Quick Ship program! See page 15 for more details.



*Contact Crystal Fountains for detailed specifications, installation and operation details.

DIMENSIONS

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	0.6	1	1.3	1.9
NLF075	1"	64	51	2	LPM	15.0	19.0	23.0	26.0
					Head (m.)	1	1.6	1.9	3.1
					Spread (cm.)	45	60	90	120
NLF076	1"	64	51	2	LPM	19.0	19.0	23.0	34.0
					Head (m.)	1.3	1.6	2.2	3.4
					Spread (cm.)	106	168	230	360
					Throw (m.)	0.6	1.3	1.3	2.2

Options	Add Suffix
Cover Removal Key	K
Winter Cover	W

NMB Series – Mushroom / Bell Jet

A clear sheet of pulsating water capable of assuming dual forms by adjusting the top cone. The effect can be changed from mushroom (flatter on top and wider spread) to a bell shape (clearer, rounder top and falls straight). Quiet and splash-free. Ideal for small areas which are free of wind. Optional alignment swivel available (See ASU). Made of machined cast bronze and brass. **Not water level dependent.**

VISIBILITY

SOUND LEVEL

WIND RESISTANCE

SPLASH/MIST

EFFICIENCY

■ ■ ■ □ □

■ □ □ □ □

■ □ □ □ □

■ ■ □ □ □

■ ■ ■ □ □

Diagram illustrating the NMB Series nozzle. The top view shows the spray diameter. The side view shows the reversible cone mechanism, inlet, swivel connection (optional), and dimensions A, B, and W.

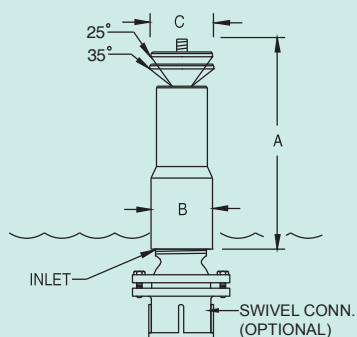


**Contact Crystal Fountains for detailed specifications, installation and operation details.*

DIMENSIONS						PERFORMANCE			
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Spray diameter (m.)	0.3	0.6	1
NMB075	¾"	121	51	229	2	LPM	15.0	19.0	
						Head (m.)	0.6	0.6	
NMB100	1"	147	61	229	2	LPM	19.0	26.0	38.0
						Head (m.)	0.6	0.6	1

NMC Series – Tulip Jet

A clear, thicker sheet of pulsating water rising around a center point and falling in a 360° circle. There is very little sound or splash. Ideal for both serene and windy locations. Effective as a cooling and/or evaporative spray. Optional alignment swivel available (See ASU). Made of machined cast bronze and brass with adjustable top cone to adjust thickness of water and spread. Standard with 25° or 35° cone. Custom angled cones also available in 20°, 30°, 40° and 45° upon request. **Not water level dependent.**



VISIBILITY	■ ■ ■ ■ □
SOUND LEVEL	■ ■ □ □ □
WIND RESISTANCE	■ ■ □ □ □
SPLASH/MIST	■ ■ □ □ □
EFFICIENCY	■ ■ ■ □ □

NMC Series – Tulip Jet

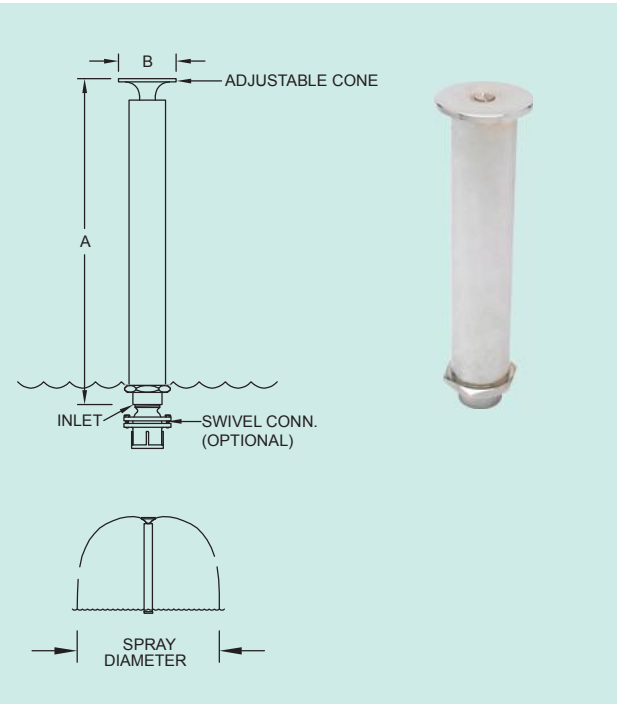
DIMENSIONS						PERFORMANCE											
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	Suction Strainer Openings max. mm.	Spray diameter (m.)	0.3	0.5	0.6	1	1.3	1.6	1.9	2.2	2.5	2.8	
NMC135	1 ½"	191	58	58	4	LPM	53.0	64.0									
						Head (m.)	0.6	0.6									
						Spray height (cm.)	23	28									
NMC225	2"	223	70	77	6	LPM			140.0	151.0	185.0	204.0					
						Head (m.)			0.6	0.6	1	1					
						Spray height (cm.)			31	36	41	46					
NMC235	2"	223	70	77	6	LPM			136.0	163.0	167.0	193.0					
						Head (m.)			0.6	1	1	1					
						Spray height(cm.)			39	44	54	67					
NMC325	3"	261	102	96	6	LPM						379.0					
						Head (m.)						0.6					
						Spray height (cm.)						61					
NMC335	3"	261	102	96	6	LPM							492.0				
						Head (m.)						0.6					
						Spray height (cm.)						46					
NMC425	4"	305	127	140	6	LPM			Full	Sheet	Pattern			644.0			
						Head (m.)						0.6					
						Spray height (cm.)						77					
NMC435	4"	305	127	140	6	LPM									719.0		
						Head (m.)						0.6					
						Spray height (cm.)						51					
NMC625	6"	451	197	172	6	LPM									833.0		
						Head (m.)						0.6					
						Spray height (cm.)						92					
NMC635	6"	451	197	172	6	LPM										946.0	
						Head (m.)						0.6					
						Spread (cm.)						92					

*Contact Crystal Fountains for detailed specifications, installation and operation details.

NMF Series – Bell Jet

A clear sheet of water in the shape of a 360° bell. Minimal sound or splash. Ideal for small and medium-sized displays in locations which are free of wind. Suitable for groupings in varying heights (3 different heights available) and beautiful when illuminated. Optional alignment swivel available (See ASU). Made of chrome-plated cast bronze with adjustable top cone to adjust thickness of water and spread. **Not water level dependent.**

VISIBILITY	■ ■ ■ ■ ■
SOUND LEVEL	■ □ □ □ □
WIND RESISTANCE	■ □ □ □ □
SPLASH/MIST	■ □ □ □ □
EFFICIENCY	■ ■ ■ □ □



**Contact Crystal Fountains for detailed specifications, installation and operation details.*

DIMENSIONS				PERFORMANCE					
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	Suction Strainer Openings max. mm.	Spray diameter (m.)	0.3	0.6	0.8	1.3
NMF051	1/2"	153	42	2	LPM	23.0	34.0	38.0	
NMF052		229			Head (m.)	1	1.6	1.9	
NMF053		305							
NMF101	1"	305	54	2	LPM	34.0	42.0	45.0	49.0
NMF102		458			Head (m.)	1	1.6	1.9	2.5
NMF103		610							

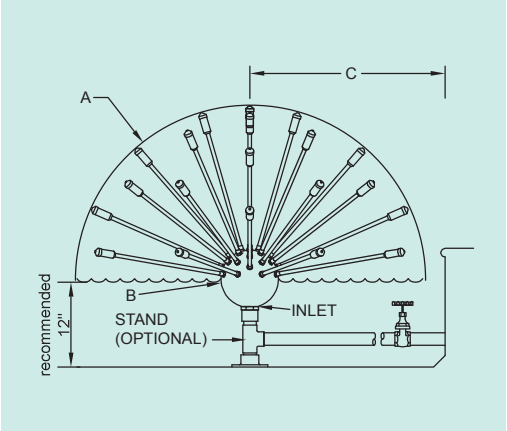
NDH Series – Dandelion Hemisphere

Delicate and floating with a dandelion type of effect that sits close to the water surface. The Dandelion Hemisphere has interconnecting discs of water which shimmer on the surface and illuminate well. Ideal for malls, foyers and areas which are free of wind. Nozzles are easily cleaned, individually adjustable and removable. Available with optional stand. Made of cast bronze, machined brass and copper. **Not water level dependent.**



DIMENSIONS							PERFORMANCE	
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	No. of arms	Suction Strainer Openings max. mm.	LPM	Head (m.)
NDH030	2"	915	204	1829	21	2	208.0	2.8
NDH040	2"	1220	204	2439	21	2	208.0	3.1
NDH045	2"	1220	204	2439	33	2	322.0	3.1
NDH060	2"	1829	204	3658	33	2	322.0	4.3
NDH065	3"	1829	254	3658	61	2	583.0	4.6
NDH080	4"	2439	305	4879	85	2	814.0	5.8
NDH100	4"	3048	305	6096	125	2	1189.0	6.8

**Contact Crystal Fountains for detailed specifications, installation and operation details.*

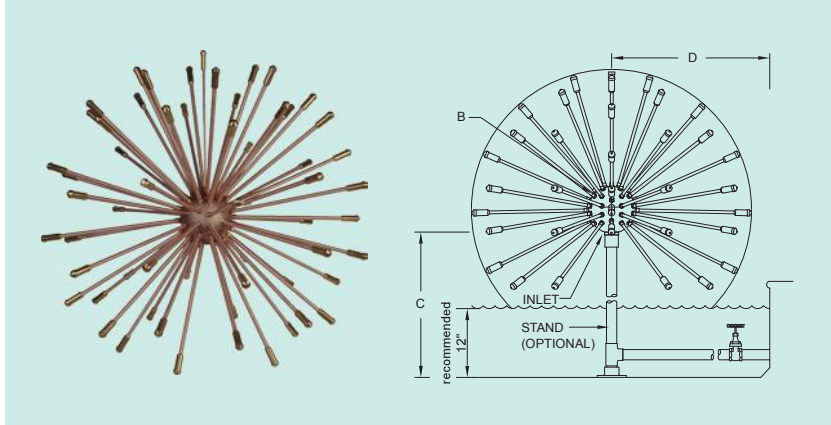


VISIBILITY	■ ■ ■ ■ □
SOUND LEVEL	■ ■ ■ ■ □
WIND RESISTANCE	■ □ □ □ □
SPLASH/MIST	■ ■ ■ ■ □
EFFICIENCY	■ ■ ■ □ □

NDS Series – Dandelion Sphere

A pulsating sphere of interconnecting discs of water that rises above the water level on a stand up to 305mm high. When not in use as a water feature, the Dandelion Sphere appears sculptural. Ideal in enclosed malls, foyers, and areas which are free of wind. Breathtaking when illuminated. Nozzles are easily cleaned, individually adjustable (for water thickness) and removable. Available with optional stands. Made of cast bronze, machined brass and copper. **Not water level dependent.**

**Contact Crystal Fountains for detailed specifications, installation and operation details.*



DIMENSIONS

PERFORMANCE

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)	No. of arms	Suction Strainer Openings max. mm.	LPM	Head (m.)
NDS030	2"	36"	204	1524	1829	29	2	284.0	2.5
NDS040	2"	48"	204	1524	2439	29	2	284.0	3.1
NDS045	2"	48"	204	1829	2439	61	2	587.0	3.7
NDS060	2"	72"	254	2438	3658	61	2	587.0	4
NDS065	3"	72"	305	2438	3658	125	2	1200.0	4.3
NDS080	4"	96"	508	3048	4879	173	2	1650.0	4.9
NDS100	6"	120"	508	3658	6096	253	2	2400.0	5.8

VISIBILITY	■ ■ ■ ■ □
SOUND LEVEL	■ ■ ■ ■ □
WIND RESISTANCE	■ □ □ □ □
SPLASH/MIST	■ ■ ■ ■ □
EFFICIENCY	■ ■ □ □ □

SIMPLE INTERACTIVE NOZZLES

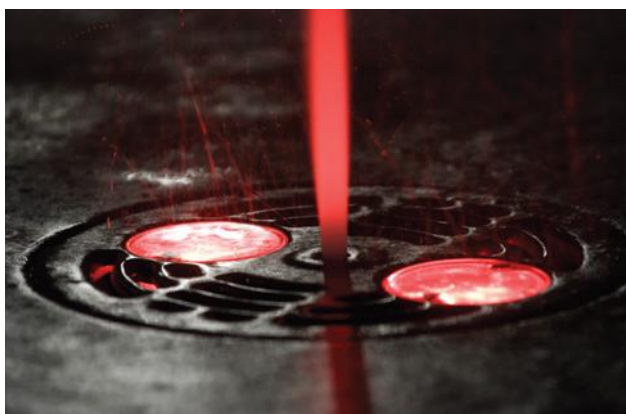
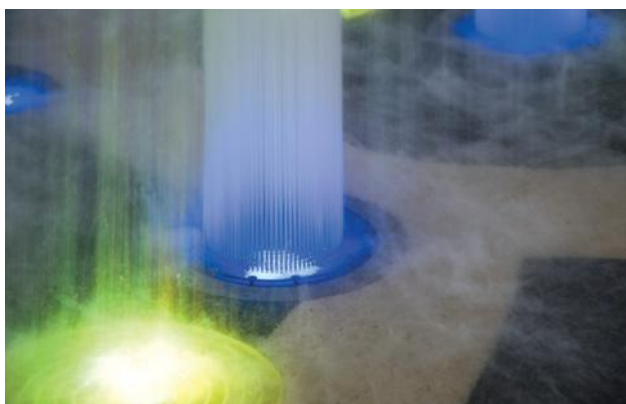
Non-Sequencing/Constant Flow

While choreographed water features can be exciting, similar effects can be achieved using non-sequenced nozzles. These constant flow nozzles don't require computer controls, simply turn the pump "on" and the fountain is in operation!

Fountains designed for public play require certain design features:

- Flush mounted (no trip hazards)
- Deck-friendly (no toe entrapment)
- Play-safe (soft water)
- Some smaller nozzles require lower GPM and can be supplied by municipal water supplies.

76	SIMPLE INTERACTIVE DECK JETS
77	AJD Series – Drain with Center Jet
78	NLG Series – Ground Jet
80	NLC Series – Column Jet
81	NCB Series – Deck Level Cascade Niche
82	NSS Series – Deck Level Spray Ring
83	NLH Series – Bi-Stream Ground Jet
84	NLF Series – Deck Level Crown Jet
85	Introduction to Illuminated Deck Jets
86	LED 170 Series – Illuminated Ground Jet
90	NNC Series – Dynamite Blast/V-Blast
92	More Simple Interactive Deck Jets

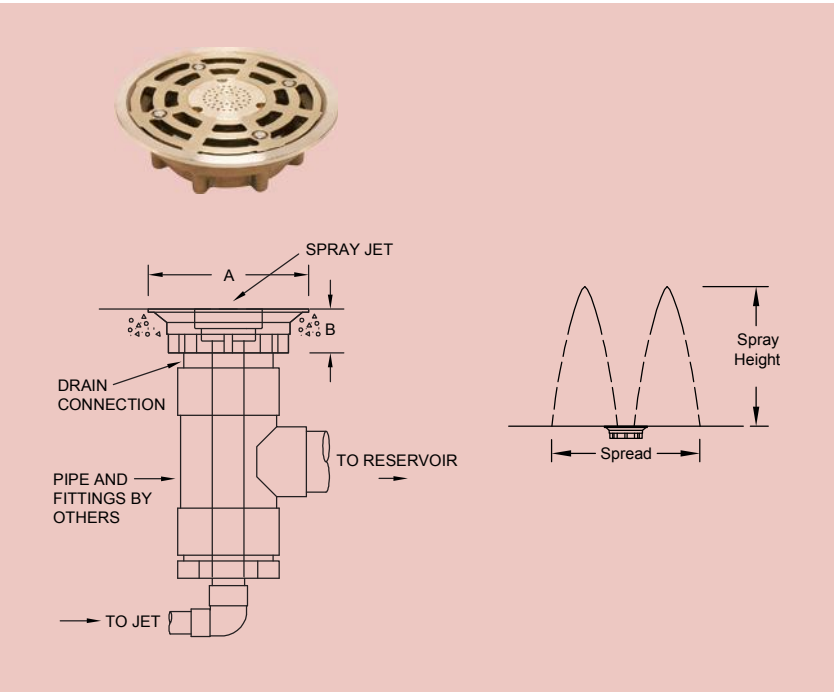


AJD Series – Drain with Center Jet

Primarily used in spray aprons for public playgrounds. This flush-mounted effect provides a cost effective solution that's both functional and decorative. The 102mm side outlet connects to a drain line. Water source is plumbed within drain piping. Made of machined cast bronze, brass and stainless steel fitted.

*For interactive play, do not exceed 6m per second.

VISIBILITY	■ ■ ■ □ □
SOUND LEVEL	■ ■ □ □ □
WIND RESISTANCE	■ □ □ □ □
SPLASH/MIST	■ ■ ■ ■ □
EFFICIENCY	■ ■ □ □ □



**Contact Crystal Fountains for detailed specifications, installation and operation details.*

DIMENSIONS

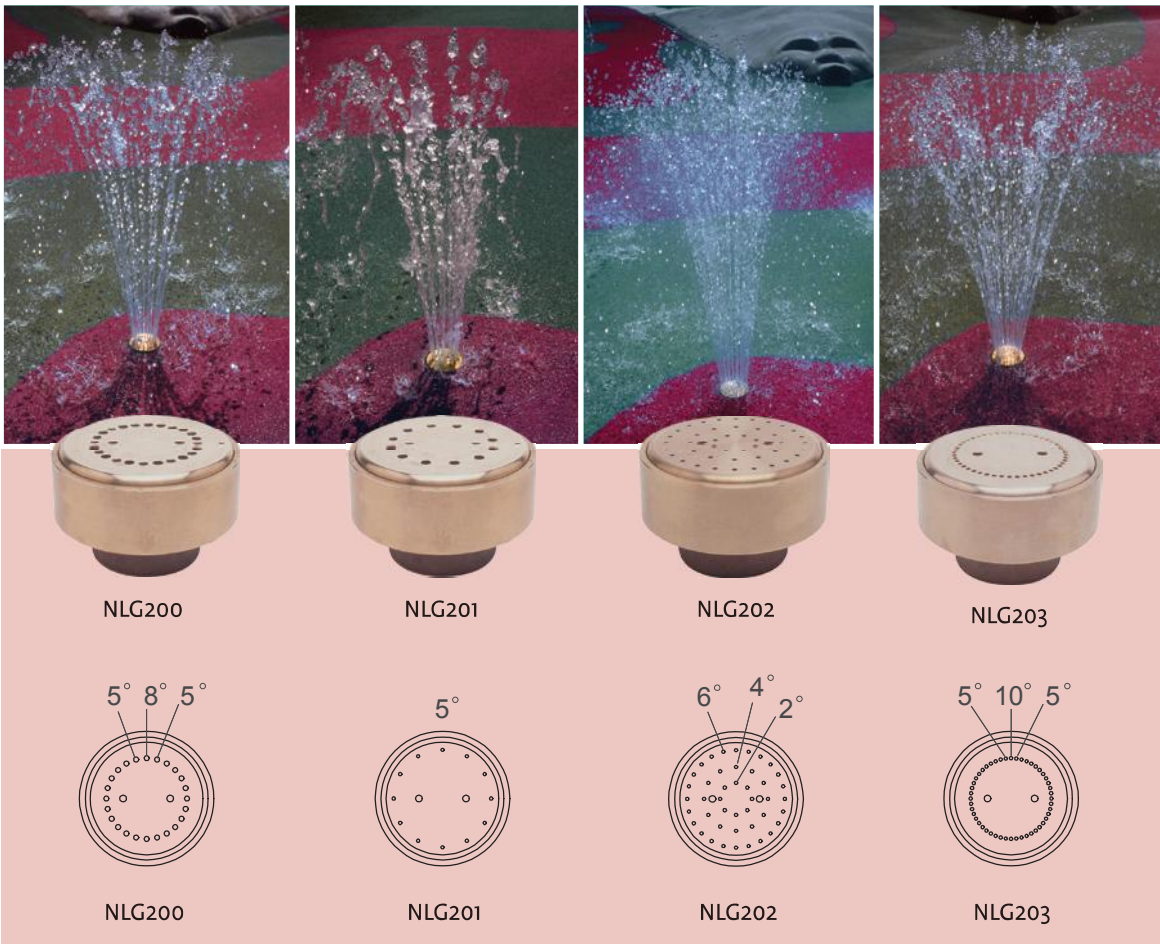
Part No.	Inlet (b.s.p.t.)	Drain Connection (mm)	a dim. (mm)	b dim. (mm)	Suction Strainer Openings (mm)	Spray height (m.)	0.6	1	1.3	1.6	1.9
AJD100	1 ¼"	153	305	89	2	LPM	15.0	19.0	23.0	26.0	26.0
						Head (m.)	1	1.6	1.9	2.5	3.1
						Spread (cm.)	41	56	82	92	112

NLG Series – Ground Jet

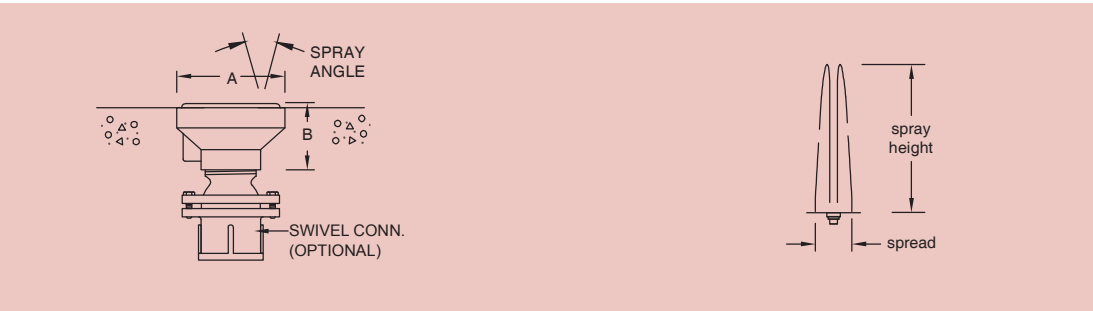
A popular, multi-purpose spray jet that can be used in small and medium-sized playdecks*. Big brother to the NLF (Crown Jet), this nozzle is 127mm diameter and creates a larger volume of gentle spray. Available with 4 interchangeable tops for different spray patterns that provide up to 5m of spread. Made of machined cast bronze with removable faceplate for easy cleaning with an optional security key. Optional alignment swivel available (ASU). Optional winter cover also available. **Not water level dependent.**

*For interactive play, do not exceed 6 meters per second.

VISIBILITY	■ ■ ■ □ □
SOUND LEVEL	■ ■ □ □ □
WIND RESISTANCE	■ □ □ □ □
SPLASH/MIST	■ ■ ■ ■ □
EFFICIENCY	■ ■ □ □ □



NLG Series – Ground Jet



**Contact Crystal Fountains for detailed specifications, installation and operation details.*

DIMENSIONS					PERFORMANCE			
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	1	1.6	3.1
NLG200	2"	77	127	1	LPM	114.0	148.0	220.0
					Head (m.)	1.6	2.5	5.5
					Spread (cm.)	122	183	336
NLG201	2"	77	127	1	LPM	98.0	129.0	189.0
					Head (m.)	1.6	2.5	4.9
					Spread (cm.)	7	12	21
NLG202	2"	77	127	1	LPM	95.0	121.0	178.0
					Head (m.)	1.6	2.5	5.2
					Spread (cm.)	92	138	244
NLG203	2"	77	127	1	LPM	98.0	129.0	182.0
					Head (m.)	1.6	2.5	4.6
					Spread (cm.)	138	206	336
Options		Add Suffix						
Security Key		K						
Winter Cover		W						

NLC Series – Column Jet

A simple, vertical column of clear water ideal as a focal point for small and medium-sized displays. Composed of an array of smaller openings to create a delicate upward spray. Also appropriate as a secondary effect for large displays. Optional alignment swivel available (ASU). Made of machined bronze and brass with removable top for easy cleaning. **Not water level dependent.**

*For interactive play, do not exceed 6 meters per second.



VISIBILITY

SOUND LEVEL

WIND RESISTANCE

SPLASH/MIST

EFFICIENCY

*Contact Crystal Fountains for detailed specifications, installation and operation details.

DIMENSIONS						PERFORMANCE					
Part No.	Inlet (n.p.t.) (mm)	a dim. (mm)	b dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	0.6	1	1.3	1.6	1.9
NLC075	1"	51	64	51	2	LPM	38.0	45.0	53.0	57.0	60.0
						Head (m.)	1.3	1.9	2.5	2.8	3.4
						Spread (cm.)	21	26	26	31	31
Options		Add Suffix									
Cover Removal Key		K									
Winter Cover		W									

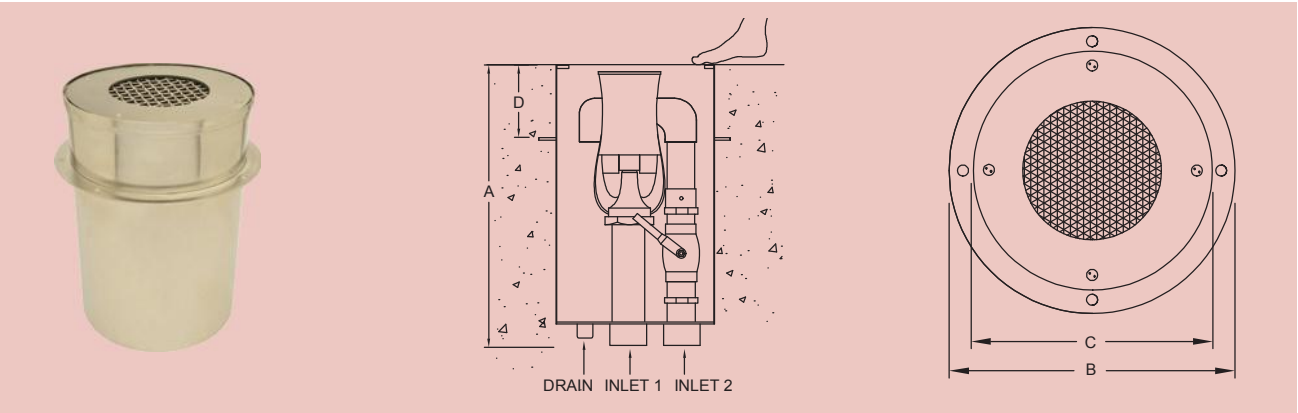
NCB Series – Deck Level Cascade Niche

The Deck level Cascade Niche is specifically designed for dry or poured deck concrete fountains and is ideal for a main feature or for soft, interactive play*. The easy to maintain package incorporates the cascade nozzle and water level inlet piping to create the popular pyramid shaped mound of water. Niche is pre-plumbed for easy installation and comes with an integrated overflow adjustment valve. Also comes with a stainless steel cover and central stainless steel mesh for water flow and safety. Available with optional stainless steel winter cover, and tamperproof screwdriver. Made of bronze and stainless steel. Water level dependent.

*For interactive play, do not exceed 6 m per second.



VISIBILITY	■ ■ ■ ■ ■
SOUND LEVEL	■ ■ ■ □ □
WIND RESISTANCE	■ ■ ■ ■ ■
SPLASH/MIST	■ ■ ■ □ □
EFFICIENCY	■ ■ □ □ □



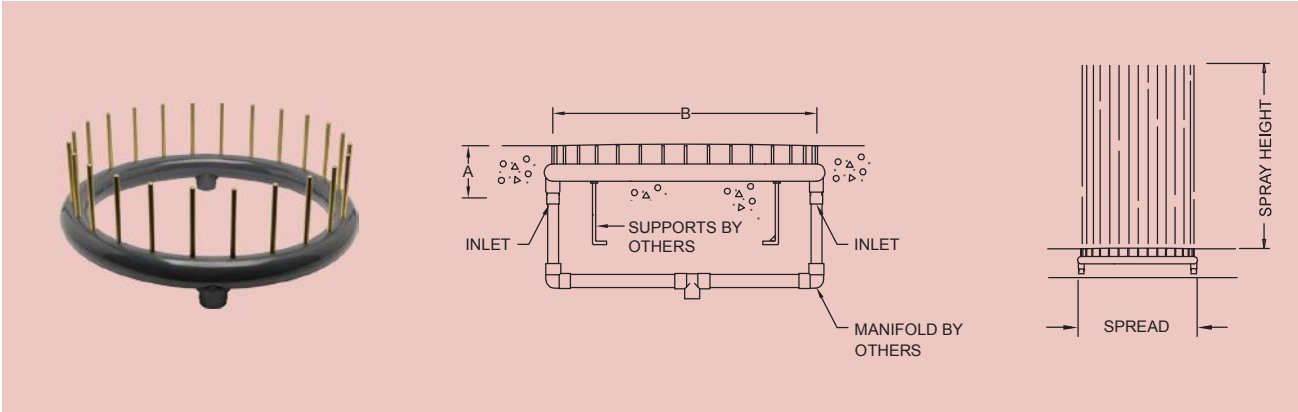
DIMENSIONS								PERFORMANCE				
Part No.	Inlet 1 (b.s.p.t.)	Inlet 2 (b.s.p.t.)	Drain Connection (mm)	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)	Spray height (m.)	1.3	1.6	1.9	2.5
NCB200	2"	2"	13	432	331	280	112	Inlet 1 LPM	159.0	178.0	189.5	231.0
								Inlet 2 LPM	159.0	178.0	189.5	231.0
								Head (m.)	5.5	7.1	9.8	11.3
								Spread (m.)	N/A	N/A	N/A	N/A

NSS Series – Deck Level Spray Ring

The Deck Level Spray Ring provides a classic look but is completely safe for interactive play. A range of 24 – 84 individual machined brass nozzles are placed in a circular pattern of between 0.6 m – 2.4 m in diameter. Custom sizes are also available upon request. Nozzle patterns create a lacy spray by day and sparkles when illuminated at night. Finishing of the spray ring is flush to the concrete making it ideal for interactive play*. Made of plastic and machined brass. Not water level dependent.

*For interactive play, do not exceed 6 m per second.

VISIBILITY	■ ■ ■ ■ □
SOUND LEVEL	■ ■ ■ □ □
WIND RESISTANCE	■ ■ □ □ □
SPLASH/MIST	■ ■ ■ □ □
EFFICIENCY	■ ■ □ □ □



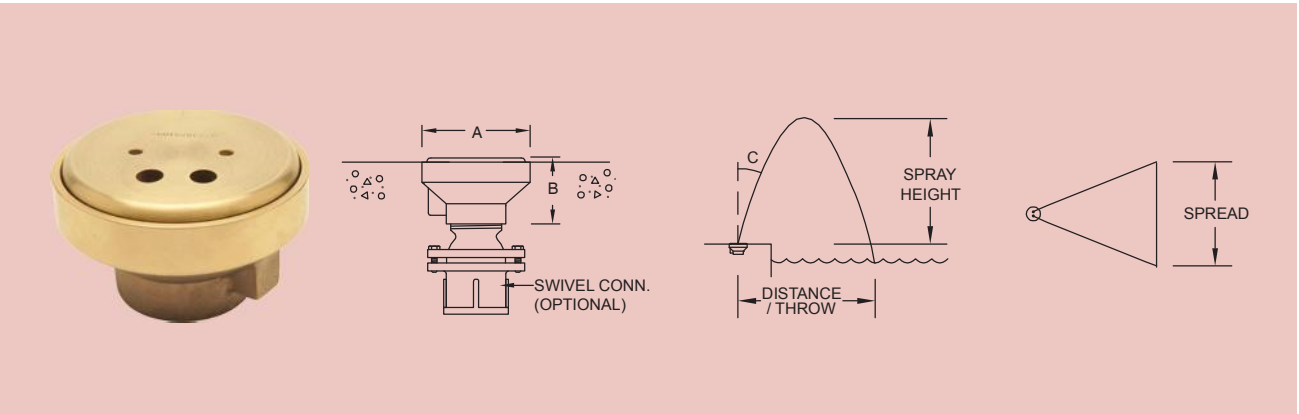
DIMENSIONS							PERFORMANCE									
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	No. of Jets	Pipe Diameter (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	0.6	1	1.3	1.6	1.9	2.5	3.1	3.7	4.3
							Head (m.)	1.8	2.4	3	3.6	4.6	6.1	7.6	9.1	10.7
Nozzle Opening = 4.7 mm																
NSS200	1 1/4" x 2	432	610	24	51	3	LPM	95.0	133.0	182.0	197.0	209.0				
NSS300	1 1/4" x 2	432	915	36	51	3		114.0	190.0	273.0	296.0	326.0				
NSS400	1 1/2" x 2	432	1220	48	51	3		171.0	265.0	364.0	402.0	455.0				
NSS500	1 1/2" x 2	432	1525	60	51	3		201.0	318.0	432.0	462.0	493.0	553.0			
NSS600	1 1/2" x 3	432	1829	72	51	3		228.0	364.0	500.0	546.0	614.0	659.0			
NSS800	1 1/2" x 4	432	2134	84	64	3		303.0	470.0	636.0	697.0	758.0	856.0	924.0	985.0	1053.0

NLH Series – Bi-Stream Ground Jet

The Bi-Stream Ground Jet produces two streams of water that rises up to 1.2m in height and throw up to 3.6m. Face plate is removable for easy cleaning with an optional security key. A versatile effect, the Bi-Stream can be used in small and medium sized fountains and be installed in-ground or above water. Comes with optional winter cover and security key. Made of cast bronze. Not water level dependent.



VISIBILITY	■ ■ ■ ■ ■
SOUND LEVEL	■ ■ ■ □ □
WIND RESISTANCE	■ ■ ■ ■ □
SPLASH/MIST	■ ■ ■ □ □
EFFICIENCY	■ ■ ■ □ □



DIMENSIONS

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	Suction Strainer Openings max. mm.
NLH200	2"	77	127	1

PERFORMANCE

Throw (m.)	1.6	3.1	3.7
LPM	29.0	42.0	57.0
Head (m.)	1.3	2.5	3.2
Height (m.)	0.6	1.3	1.3
Spread (m.)	0.9	1.8	2.1

Options	Add Suffix
Security Key	K
Winter Cover	W

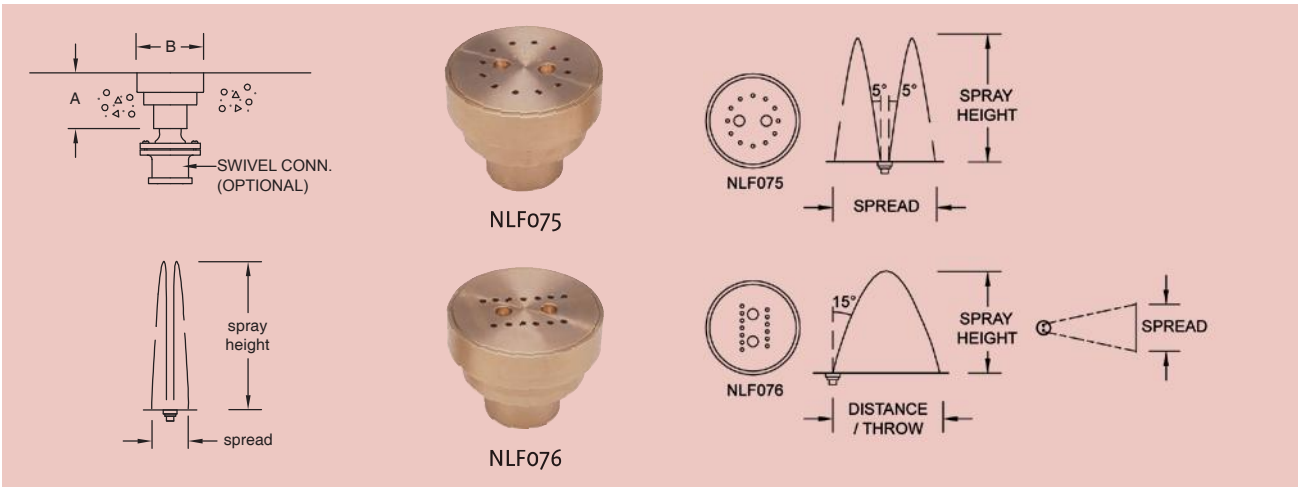
NLF Series – Deck Level Crown Jet

A versatile, smaller jet that can be used on play decks providing gentle spray coverage and cooling. This effect creates a pretty, vertical tulip shape. Optional alignment swivel available (ASU). Made of machined cast bronze with removable, flush-mounted faceplate for easy cleaning with optional security key. Optional winter cover also available. Not water level dependent.

*For interactive play, do not exceed 6 m per second.



VISIBILITY	■ ■ ■ ■ □
SOUND LEVEL	■ □ □ □ □
WIND RESISTANCE	■ ■ ■ □ □
SPLASH/MIST	■ ■ ■ ■ ■
EFFICIENCY	■ ■ ■ □ □



DIMENSIONS					PERFORMANCE				
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	Suction Strainer Openings max. mm.	Spray height (m.)	0.6	1	1.3	1.9
NLF075	1"	64	51	2	LPM	15.0	19.0	23.0	26.0
					Head (m.)	1	1.6	1.9	3.1
					Spread (cm.)	45	60	90	120
					Throw (m.)	0.6	1.3	1.3	2.2
NLF076	1"	64	51	2	LPM	19.0	19.0	23.0	34.0
					Head (m.)	1.3	1.6	2.2	3.4
					Spread (cm.)	106	168	230	360
					Throw (m.)	0.6	1.3	1.3	2.2

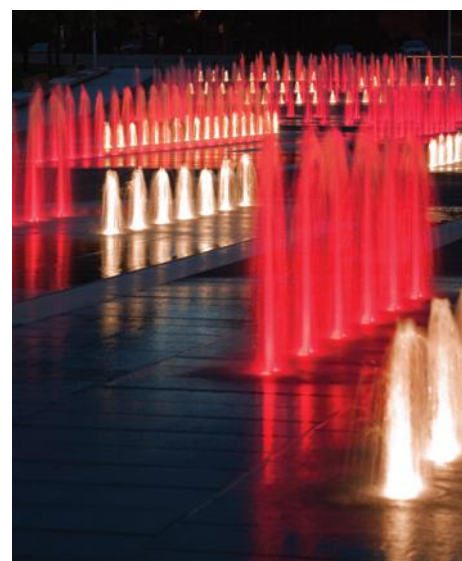
Options	Add Suffix
Cover Removal Key	K
Winter Cover	W

Introduction to Illuminated Deck Jets

When you are looking for a big deck effect, illuminate your nozzles with the Dynamite Blast™ or Illuminated Ground Jet!

Illuminated jets come with a center nozzle surrounded by a circular LED light producing a dramatic but safe water effect. By adding sequenced light shows, you can achieve dramatic evening effects at a lower cost than programmed nozzles. These nozzles are constant flow (not programmable) and are available with different interchangeable nozzle options for soft, fun water play. You can control water height using VFD drive pumps to produce simple sequencing effects for various audiences and day parts. This family of products are part of a more sophisticated LED system and require control panels and programming. Crystal Fountains' talented team can help you with pre-programmed shows or help develop a custom light show to meet your needs!

**Contact Crystal Fountains for detailed specifications, installation and operation details.*



Ideal for:

- Playdecks
- Fountains

Safe:

- Flush-mounted nozzles mean no tripping hazards on deck for interactive play
- 10mm opening on grate meets safety code for toe entrapment
- Deck surrounds have no water accumulation
- Safe interactive play running at 6m per second
- Low voltage lights are covered with lexan covers to remain cool to the touch
- Vandal resistant

Versatile:

- 12 VDC LED RGB units produce dramatic evening light shows
- Multiple nozzles can produce a wide variety of geometric patterns
- You can produce multiple heights using a variable speed drive pump
- Many products available in niche or slab hung applications

Easy Installation:

- The unit can be adjusted up to 5° for installation alignment
- Rotating grill assembly for fine-tuning layout pattern
- Comes standard with construction covers for use during installation

LED 170 Series – Illuminated Ground Jet


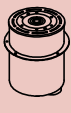

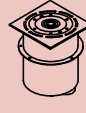
The 12 VDC LED 170 Series, Illuminated Ground Jet assembly is designed for poured or suspended deck fountains*. The easy to maintain package incorporates a nozzle and a circular light in a convenient, ready to install unit. Available with 4 different interchangeable nozzle options, allowing for a variety of soft, play-friendly displays by day and as a spectacular light show by night. The 10mm wide slots in decorative stainless steel grille allow for drainage and safety. This unique design includes the ability to adjust the jet 5° in any direction to ensure a vertical plume of water. Made of brass, bronze and stainless steel. Comes with optional vandal resistant screwdriver (FA0342). **Not water level dependent.**

*For interactive play, do not exceed 6 meters per second.

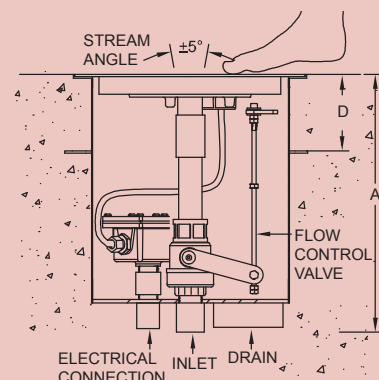
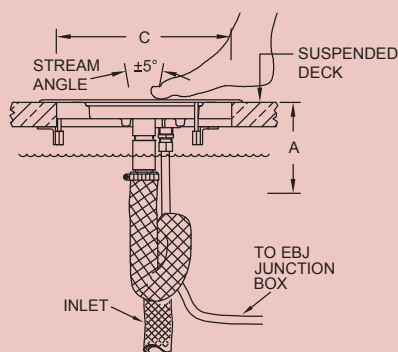
Not all LEDs are created equally! Crystal Fountains LED products produce a high intensity light and deliver perfect optical performance. Also, see Crystal Fountains power/data and controller products to create a complete LED system.



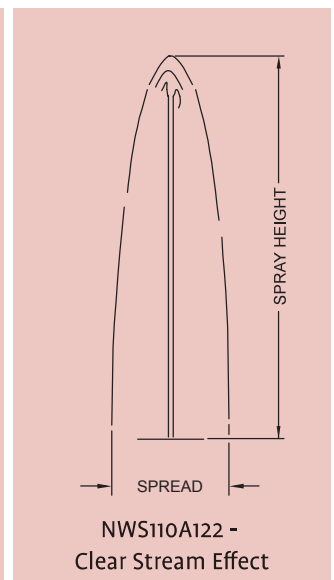
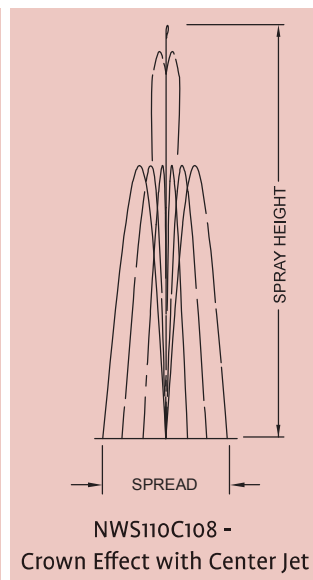
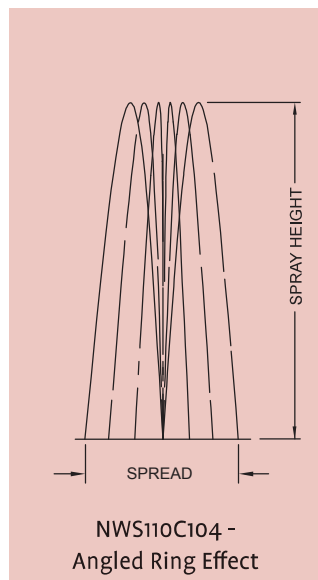
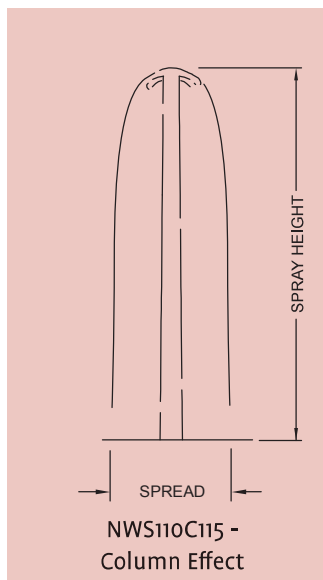
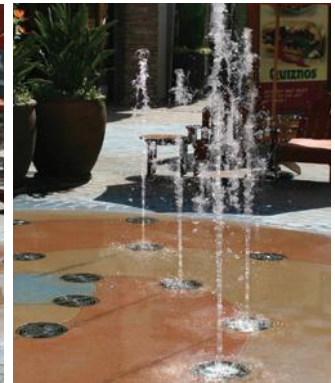
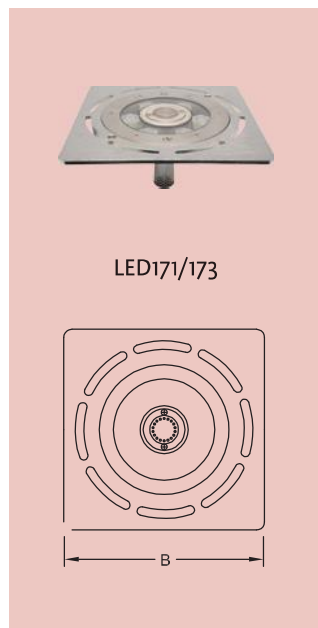
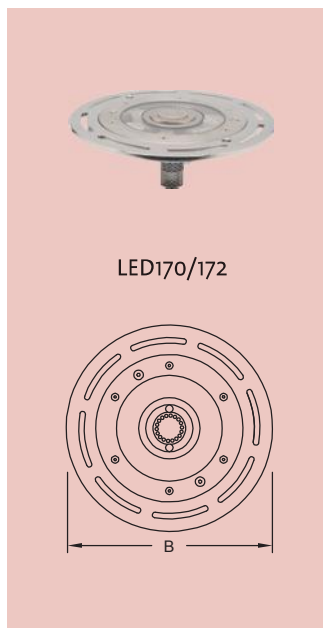
Which Foot-Friendly Non-Sequencing Jet with Lights Do I Need?

	ROUND TOP				SQUARE TOP			
	SLAB HANGER		NICHED		SLAB HANGER		NICHED	
1. Choose Your Style								
2. Choose Your Application								
3. Choose Your Lighting Effect	White LED	RGB LED	White LED	RGB LED	White LED	RGB LED	White LED	RGB LED
4. Get Part Number	LED170	LED172	LED174	LED176	LED171	LED173	LED175	LED177

VISIBILITY	■ ■ ■ ■ ■
SOUND LEVEL	■ ■ ■ ■ ■
WIND RESISTANCE	■ ■ ■ ■ ■
SPLASH/MIST	■ ■ ■ ■ ■
EFFICIENCY	■ ■ ■ ■ ■



LED 170 Series – Illuminated Ground Jet



LED 170 Series – Illuminated Ground Jet

NICHED VERSION

DIMENSIONS

Part No.	Inlet (b.s.p.t.)	Electrical Connection (mm)	Drain Connection (mm)	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)	Suction Strainer Openings max. mm.
LED174	1"	20	77	432	331	280	112	4
LED176	1"	20	77	432	331	280	112	4
LED175	1"	20	77	432	331	286	112	4
LED177	1"	20	77	432	331	286	112	4

PERFORMANCE

Nozzle	Spray height (m.)		1	1.6	2.2	2.8	3.4	4.3	4.9
NWS110C115	LPM		42.0	51.0	61.0	68.0	76.0	85.0	89.0
	Head (m.)		2.3	3.6	4.6	5.7	6.7	8.6	9.5
	Spread (cm.)		61	77	92	122	153	183	183
Nozzle	Spray height (m.)		0.6	1	1.3	1.6	1.9	2.2	2.5
NWS110C104	LPM		32.0	40.0	44.0	51.0	57.0	62.0	66.0
	Head (m.)		1.7	2.3	2.8	3.7	4.2	5.1	5.8
	Spread (cm.)		61	92	92	122	122	138	138
Nozzle	Spray height (m.)	Plume	1	1.4	1.9	2.3	2.8	3.4	3.7
		Ring	0.5	0.6	0.8	1.1	1.3	1.6	1.9
NWS110C108	LPM		38.0	45.0	53.0	59.0	66.0	74.0	78.0
	Head (m.)		1.9	2.6	3.4	4	4.8	5.8	6.5
	Spread (cm.)		61	61	77	92	122	153.0	183
Nozzle	Spray height (m.)		1	1.6	2.2	3.1	4	4.6	
NWS100A122	LPM		30.0	40.0	45.0	53.0	57.0	61.0	
	Head (m.)		1.9	2.6	3.6	4.9	6.5	7.2	
	Spread (cm.)		46	61	61	61	92	92	

SLAB HANGER VERSION

DIMENSIONS

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	Suction Strainer Openings max. mm.
LED170	1"	83	280	254	4
LED172	1"	83	280	254	4
LED171	1"	83	286	254	4
LED173	1"	83	286	254	4

LED 170 Series – Illuminated Ground Jet

PERFORMANCE

Nozzle	Spray height (m.)		1	1.6	2.2	2.8	3.4	4.3	4.9
NWS110C115	LPM		42.0	51.0	61.0	68.0	76.0	85.0	89.0
	Head (m.)		2.3	3.6	4.6	5.7	6.7	8.6	9.5
	Spread (cm.)		61	77	92	122	153	183	183
Nozzle	Spray height (m.)		0.6	1	1.3	1.6	1.9	2.2	2.5
NWS110C104	LPM		32.0	40.0	44.0	51.0	57.0	62.0	66.0
	Head (m.)		1.7	2.3	2.8	3.7	4.2	5.1	5.8
	Spread (cm.)		61	92	92	122	122	138	138
Nozzle	Spray height (m.)	Plume	1	1.4	1.9	2.3	2.8	3.4	3.7
		Ring	0.5	0.6	0.8	1.1	1.3	1.6	1.9
NWS110C108	LPM		38.0	45.0	53.0	59.0	66.0	74.0	78.0
	Head (m.)		1.9	2.6	3.4	4	4.8	5.8	6.5
	Spread (cm.)		61	61	77	92	122	153.0	183
Nozzle	Spray height (m.)		1	1.6	2.2	3.1	4	4.6	
NWS100A122	LPM		30.0	40.0	45.0	53.0	57.0	61.0	
	Head (m.)		1.9	2.6	3.6	4.9	6.5	7.2	
	Spread (cm.)		46	61	61	61	92	92	

How to Order

CHOOSE DESIRED JET

Lighting	Mounting	Style	Lamp	Part No.
White LED	Slab Hanger	Round Top	Spot	LED170
		Square Top	Spot	LED171
	Niche	Round Top	Spot	LED174
		Square Top	Spot	LED175
RGB LED	Slab Hanger	Round Top	Spot	LED172
		Square Top	Spot	LED173
	Niche	Round Top	Spot	LED176
		Square Top	Spot	LED177

CHOOSE NOZZLE

Effect	Part No.
Column	NWS110C115
Angled Ring	NWS110C144
Crown	NWS110C108
Clear Stream	NWS110A122

CHOOSE ADDITIONAL OPTIONS

Options	Part No.
Flood Optical Lens	LED160C006F
Vandal Resistant Driver Kit	FA0342

CHOOSE CABLE (Slab Hanger Version Only)

Cable For...	Cable Length	Part No.
White LED	3 m.	ELCORD005M03
	6 m.	ELCORD005M06
RGB LED	3 m.	ELCORD160M03
	6 m.	ELCORD160M06

EXAMPLE OF HOW TO ORDER

Quantity	Product	Part No.
1	Illuminated Ground Jet - RGB LED with Round Top Slab Hanger	LED172
1	6 m. RGB Cable	ELCORD160M06
1	Crown Nozzle	NWS110C108
1	Flood Optical Lens	LED160C006F
1	Vandal Resistant Driver Kit	FA0342

NNC Series – Dynamite Blast™ V-Blast



The Dynamite Blast produces a surprising eruption of 178mm of water from an acrylic faceplate. The blast of water is not only dramatic rising up to 10.7m but when run at interactive play levels * has minimal impact and is completely safe. Used as a central focal point in many play deck designs, the Dynamite Blast is available in three different versions (White LED, RGB LED, and unlit) and lit versions provide dramatic evening light shows. Available in a poured deck solution, nozzle can be adjusted by 3° to ensure a vertical plume of water. Made of brass, bronze, stainless steel and plastic. Self contained, pre-assembled unit from Crystal Fountains. Best used with filtered water supply (500 micron). **Water level independent.**

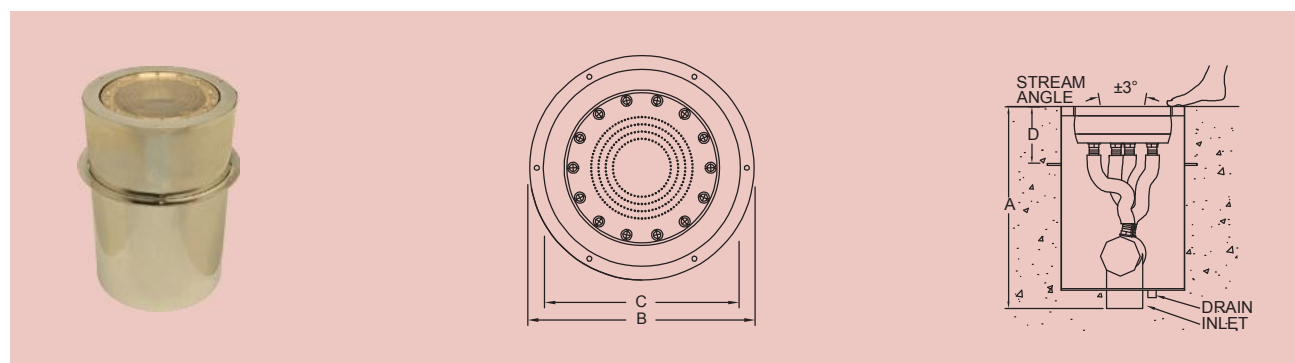
Not all LEDs are created equally! Crystal Fountains LED products produce a high intensity light and deliver perfect optical performance. Also, see Crystal Fountains power/data and controller products to create a complete LED system.

The Dynamite Blast is also available with a different configuration as the "V-Blast", creating a dramatic V-shaped blast of water that can hold shape up to 6m. The V-Blast conforms to the same specifications and dimensions as the Dynamite Blast.

*For interactive play, do not exceed 6 meters per second.

Which Dynamite Blast Jet Do I Need?

1. Choose Your Effect	Straight Stream			V Stream			
							
2. Choose Your Lighting Effect	No Light	White LED	RGB LED	No Light	White LED	RGB LED	
3. Get Part Number	NNC101	LED151	LED152	NNC102	LED153	LED154	
							VISIBILITY ■ ■ ■ ■ ■ SOUND LEVEL ■ ■ ■ ■ ■ WIND RESISTANCE ■ ■ ■ □ □ SPLASH/MIST ■ ■ ■ □ □ EFFICIENCY ■ ■ □ □ □



*Contact Crystal Fountains for detailed specifications, installation and operation details.

DIMENSIONS

Part No.	Inlet (b.s.p.t.)	Inlet 2 (b.s.p.t.)	Electrical Connection (b.s.p.t.)	Drain Connection (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)	Filtration Required
NNC101 / LED151 / LED152 / NNC102 / LED153 / LED154	3"	3/4"	1 1/4"	2"	588	394	343	166	500 micron

PERFORMANCE

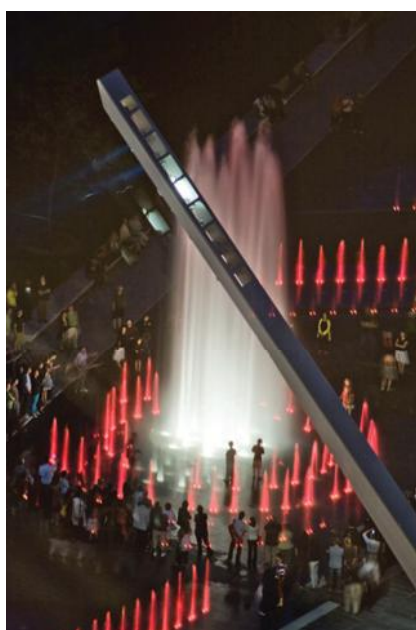
Part No.	Spray height (m.)	0.6	1.3	2.5	3.1	3.7	4.3	6.1	7.7	9.2	10.7
NNC101 / LED151 / LED152	LPM	187.0	220.0	309.0	367.0	382.0	416.0	500.0	564.0	623.0	647.0
	Head (m.)	3.7	5.5	8.3	10.4	12.5	18.6	24.1	27.8	35.1	35.4
NNC102 / LED153 / LED154	LPM	254.0	348.0	473.0	524.0	585.0	402.0	712.0			
	Head (m.)	6.2	8.4	11.2	12.7	14	15.4	17.8			
	Spray Diameter (m.)	0.6	1.2	1.8	1.8	2.4	2.4	3			

NNC Series – Dynamite Blast™ / V-Blast

How to Order

CHOOSE JET

Jet Effect	Lighting Option	Lamp	Part No.
Dynamite Blast	No light	Spot	NNC101
	White LED	Spot	LED151
	RGB LED	Spot	LED152
V Blast	No light	Spot	NNC103
	White light	Spot	LED153
	RGB light	Spot	LED154



More Simple Interactive Deck Jets

Crystal Fountains also manufactures a range of high-quality nozzles specifically designed for small fountains and residential applications. This series of nozzles are flush-mounted to prevent trip hazards and provide a range of beautiful, fun effects. You can also check out our complete section of Residential products in this catalog.



WMD115 TriStream Jet. The 3 gentle slender streams of water are shot out from the 5mm holes on the directional ball, which is vandal resistance but easy to adjust with the optional security key.



WMD100 Stream Jet. This directionally adjustable clear stream nozzle is designed for applications that require flush deck level mounting such as swimming pool decks and children's public water play areas*.



WMT Series FyreFly Jet. Sparkling streams form a wide arch, graceful, but with significant mass and form.



WMG Series CrystalFalls. Unique nozzle design creates a large mass of unbroken water that comes from the pool deck.



WMO Series Foam Jet. Foam jets produce a mound of frothy, aerated water that provide a substantial visual and sound impact.

RESIDENTIAL

With the same professional effects as Crystal Fountains commercial products, the Residential collection has been specially selected for swimming pools and small fountains. Many Residential products are effective for evaporative cooling in swimming pools in hot climates. Each product comes with simple to use, step-by-step installation guides and are pre-engineered to make it easy.

93	RESIDENTIAL
94	WMT Series – Fyrefly™ Jet
97	WMG Series – CrystalFalls™ Jet
99	WMV Series – Starburst Laminar
102	Stream Jets Series
103	WMD115 – Tristream Jet
104	WMD100 – 25mm Stream Jet
105	WMD110 – Stream Jet Multi
106	WMF076 – Crown Jet
107	WMO Series – Foam Jet
109	Fire and Water Bowls
110	The Moderno – WB100 Series
111	The Pantheon – WB200 Series
112	The Villa – WB300 Series
113	The Camelot – WB400 Series



A large, curved swimming pool with a stone deck and a covered pavilion in the background. The pool has a curved, irregular shape and is surrounded by a deck made of large, flat stones. In the background, there is a covered pavilion with a wooden frame and a stone building to the left. The scene is set in a lush, green environment with large trees.

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WMT Series – Flyrefly™ Jet

DIMENSIONS

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)	e dim. (mm)	f dim. (mm)	Mounting	Suction Strainer Openings max. mm.
WMT110 / WMT111 / WMT112	2 X 1 1/2"	242	381	229	35	26	20°	Deck	2

PERFORMANCE

Nozzle	Throw (m.)	1	1.3	1.9	2.5	3.1	3.7
WMT110A501 (Heavy Spray)	LPM	25.0	43.0	55.0	64.0	70.0	81.0
	Head (m.)	1	1.7	2.6	3.4	4.3	5.2
	Spray Height (m.)	4.6	1	1.4	1.9	2.5	2.9
WMT110A507 (Light Spray)	LPM	22.0	32.0	40.0	45.0	47.0	51.0
	Head (m.)	0.8	1.7	2.3	3.1	3.6	4
	Spray Height (m.)	0.5	1	1.4	2	2.2	2.3
WMT110A508 (Fan Spray)	LPM	23.0	32.0	45.0	53.0	53.0	57.0
	Head (m.)	0.8	1.4	2.3	2.9	3.3	3.9
	Spray Height (m.)	0.5	1	1.4	1.9	2.3	2.5
	Spread (cm.)	107	168	244	305	366	427

DIMENSIONS

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)	e dim. (mm)	f dim. (mm)	Mounting	Suction Strainer Openings max. mm.
WMT120 / WMT121 / WMT124	2 X 1 1/2"	242	381	229	35	26	40°	Deck	2

PERFORMANCE

Nozzle	Throw (m.)	0.6	1.3	1.9	2.5	3.1	3.7
WMT120A501 (Heavy Spray)	LPM	31.0	44.0	38.0	43.0	70.0	61.0
	Head (m.)	0.9	1.1	1.5	2	21.4	3.0
	Spray Height (m.)	0.2	0.4	0.5	0.7	0.9	1.1
WMT120A507 (Light Spray)	LPM	19.0	25.0	30.0	36.0	41.0	45.0
	Head (m.)	0.8	0.9	1.4	2.5	2.4	2.9
	Spray Height (m.)	0.2	0.3	0.5	0.7	0.9	1.1
WMT120A508 (Fan Spray)	LPM	19.0	27.0	30.0	37.0	42.0	47.0
	Head (m.)	0.4	0.9	1.1	2.2	2.1	3.4
	Spray Height (m.)	0.2	0.3	0.4	0.6	0.8	1.0
	Spread (m.)	0.6	1.1	1.6	2.0	2.3	2.6

DIMENSIONS

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)	e dim. (mm)	f dim. (mm)	Mounting	Suction Strainer Openings max. mm.
WMT120 / WMT122 / WMT126	2 X 1 1/2"	242	381	229	35	26	40°	Wall	2

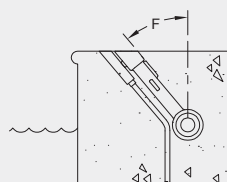
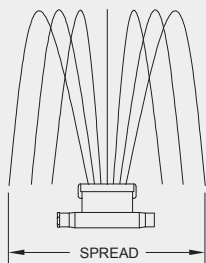
PERFORMANCE

Nozzle	Throw (m.)	0.6	1.3	1.9	2.5	3.1	3.7
WMT120A501 (Heavy Spray)	LPM	31.0	44.0	38.0	43.0	70.0	61.0
	Head (m.)	0.9	1.1	1.5	2	21.4	3.0
	Spray Height (m.)	0.2	0.4	0.5	0.7	0.9	1.1
WMT120A507 (Light Spray)	LPM	19.0	25.0	30.0	36.0	41.0	45.0
	Head (m.)	0.8	0.9	1.4	2.5	2.4	2.9
	Spray Height (m.)	0.2	0.3	0.5	0.7	0.9	1.1
WMT120A508 (Fan Spray)	LPM	19.0	27.0	30.0	37.0	42.0	47.0
	Head (m.)	0.4	0.9	1.1	2.2	2.1	3.4
	Spray Height (m.)	0.2	0.3	0.4	0.6	0.8	1.0
	Spread (m.)	0.6	1.1	1.6	2.0	2.3	2.6

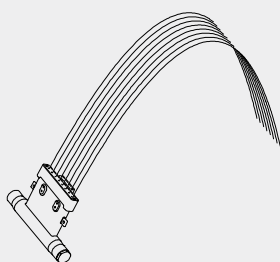
WMT Series – Fyrefly™ Jet



WMT110 - No Light



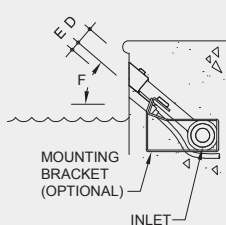
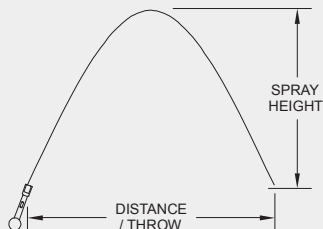
40 DEGREE DECK MOUNTED



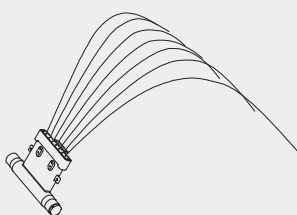
LIGHT SPRAY (Fifteen 1/8" Dia. holes)



WMT111 - Fiberoptic Version



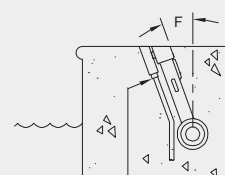
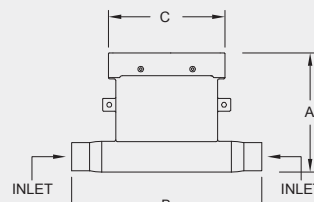
40 DEGREE WALL MOUNTED



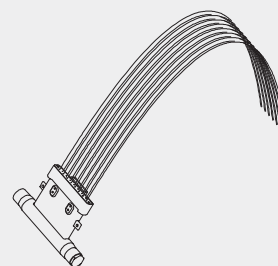
FAN SPRAY - (Seven 3/16" Dia. holes)



WMT112 - LED Version



20 DEGREE DECK MOUNTED



HEAVY SPRAY (Eight 3/16" Dia. holes)

How to Order

CHOOSE FYREFLY JET

Applica- tion	Angle	Light Effect	Part No.
Deck	20°	N/A	WMT110
		Fiberoptic	WMT111
		RGB LED	WMT112
	40°	N/A	WMT120
		Fiberoptic	WMT121
		RGB LED	WMT124
Wall	40°	N/A	WMT120
		Fiberoptic	WMT122
		RGB LED	WMT126

CHOOSE NOZZLE

Angle	Nozzle	Effect
20°	WMT110A501	Heavy Spray
	WMT110A507	Light Spray
	WMT110A508	Fan Spray
40°	WMT120A501	Heavy Spray
	WMT120A507	Light Spray
	WMT120A508	Fan Spray

CHOOSE ADDITIONAL OPTIONS

Options	Part No.
Mounting Brackets (Pair)	WMT108

EXAMPLE OF HOW TO ORDER

Quantity	Product	Part No.
1	40° Deck Mounted RGB LED Fyrefly Jet	WMT124
1	Heavy Spray Nozzle	WMT120A501
1	Mounting Bracket	WMT108

WMG Series – CrystalFalls™ Jet

This water feature series can be used with most pool designs to create dramatic arching waterfalls. Unique nozzle design creates a large mass of unbroken water that comes from the pool deck or wall. Jets are available with two different angles to produce a variation of spread and height. Single jets can act as an accent or a grouping creates a strong focal point. To prevent nozzle plugging recommend fine pump inlet screening or discharge strainer (strainer openings 2mm at a maximum of 7.5 meters). Available with no light, fiberoptic light or LED light. Comes with optional mounting brackets for easier installation (WMT108). Made of cast bronze, machined bronze or brass. **Not water level dependent.**

*For interactive play, do not exceed 6 meters per second.



This product (excluding LED Series) is available under our Quick Ship program! See page 15 for more details.

VISIBILITY	■ ■ ■ ■ □
SOUND LEVEL	■ ■ ■ ■ □
WIND RESISTANCE	■ ■ ■ ■ □
SPLASH/MIST	■ ■ □ □ □
EFFICIENCY	■ ■ □ □ □



WMG110



WMG111



WMG112

Which Crystalfalls Do I Need?

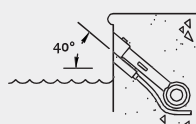
1. Choose Your Mounting Location

2. Choose Your Angled Effect

3. Choose Your Lighting Effect

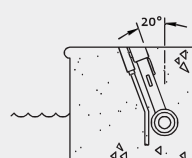
4. Get Part Number

WALL

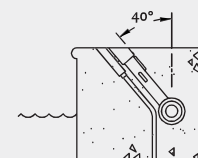


No Light	Fiber Optic	RGB LED
WMG120	WMG122	WMG123

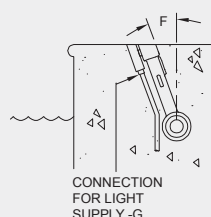
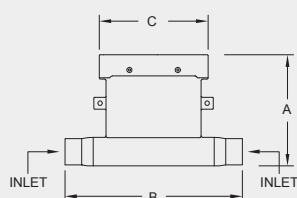
DECK



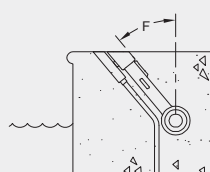
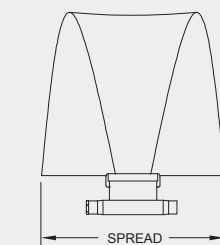
No Light	Fiber Optic	RGB LED
WMG110	WMG111	WMG112



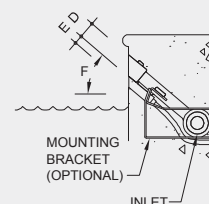
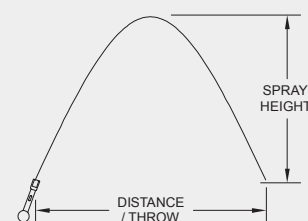
No Light	Fiber Optic	RGB LED
WMG120	WMG121	WMG121



20 DEGREE DECK
MOUNTED



40 DEGREE DECK
MOUNTED



40 DEGREE WALL
MOUNTED

WMG Series – CrystalFalls™ Jet

DIMENSIONS

PERFORMANCE

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)	e dim. (mm)	f dim. (mm)	Mounting	Suction Strainer Openings max. mm.	Throw (m.)	0.6	1.3	1.6	1.9	2.5	3.1
WMG110 / WMG111 / WMG112	2 X 1 1/2"	242	381	229	35	26	20°	Deck	2	LPM	104.0	138.0	151.0	165.0	193.0	257.0
										Head (m.)	1	1.4	1.6	1.9	2.3	4.3
										Spray Height (m.)	1	1.1	1.3	1.6	1.7	2.5
										Spread (cm.)	92	122	138	153	214	275
WMG120 / WMG121 / WMG124	2 X 1 1/2"	242	381	229	35	26	40°	Deck	2	LPM	89.0	136.0	148.0	159.0	185.0	201.0
										Head (m.)	0.7	1.3	1.4	1.6	1.9	2.2
										Spray Height (m.)	0.8	1	1	1.1	1.3	1.3
										Spread (cm.)	61	122	153	153	244	305
WMG120 / WMG122 / WMG123	2 X 1 1/2"	242	381	229	35	26	40°	Wall	2	LPM	95.0	127.0	138.0	151.0	180.0	204.0
										Head (m.)	0.8	1.1	1.3	1.6	1.9	2.3
										Spray Height (m.)	0.6	0.8	1	1	1.3	1.6
										Spread (cm.)	0.6	1.3	1.6	1.6	2.2	2.5

How to Order

CHOOSE CRYSTALFALLS JET

Application	Angle	Light Effect	Part No.
Deck	20°	N/A	WMG110
		Fiberoptic	WMG111
		RGB LED	WMG112
	40°	N/A	WMG120
		Fiberoptic	WMG121
		RGB LED	WMG124
Wall	40°	N/A	WMG120
		Fiberoptic	WMG122
		RGB LED	WMG123

CHOOSE ADDITIONAL OPTIONS

Options	Part No.
Mounting Brackets (Pair)	WMT108

EXAMPLE OF HOW TO ORDER

Quantity	Product	Part No.
1	40° Wall Mounted RGB LED CrystalFalls Jet	WMT123
1	Mounting Bracket	WMT108



This product is available under our Quick Ship program! See page 15 for more details.

*Contact Crystal Fountains for detailed specifications, installation and operation details.

WMV Series – Starburst Laminar

The Crystal Fountains Starburst Laminar is a high-tech illusion. The water is so well controlled it creates a 13mm continuous glass-like rod of water that hits the water virtually sound/splash-free. The Starburst Laminar comes complete with the Starburst effect you can activate or not. The Starburst creates a traveling ball of light that appears from opening to end of the water stream when connected to a fiber optic or LED source. This, combined with the built-in light, produces breathtaking light shows with fast programming and an unlimited color palette including white. Available in Freestanding or Niche versions.

Versatile

- Multiple Laminars can produce a wide variety of patterns.
- You can produce multiple heights using a variable speed drive pump.
- The unit can be installed out of water or submerged to maximum water level shown.
- Can be flush mounted in a deck using niche model.

Easy Installation

- Has up to 50° installation adjustment built in
- 3 cable lengths to choose from

Programmable

- Each LED stream can be individually programmed for unlimited lighting shows

Made of high density polyethylene, ABS, stainless steel and brass with 26mm male n.p.t. LED light 12VDC. Available with animation panel to control lighting. **Water level independent.**

Not all LED's are created equally. Crystal Fountains LED products produce a high intensity light and deliver perfect optical performance. Also see Crystal Fountains power/data and controller products to create a complete LED system.

*For interactive play do not exceed 6 meters per second.

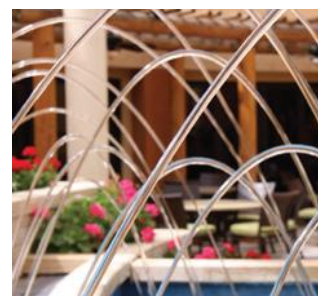
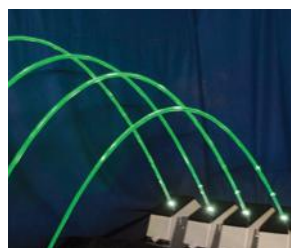
**A filtered water supply is required (cartridge filter or 50 micron max.)

**Contact Crystal Fountains for detailed specifications, installation and operation details.*

VISIBILITY	■ ■ ■ □ □
SOUND LEVEL	■ ■ □ □ □
WIND RESISTANCE	■ □ □ □ □
SPLASH/MIST	■ ■ □ □ □
EFFICIENCY	■ ■ □ □ □



This product (WMV107 only) is available under our Quick Ship program! See page 15 for more details.



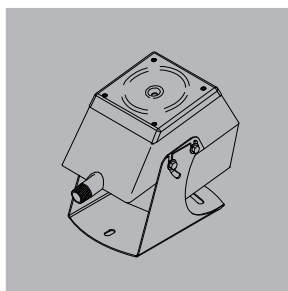
WMV Series – Starburst Laminar

Which Laminar Do I Need?

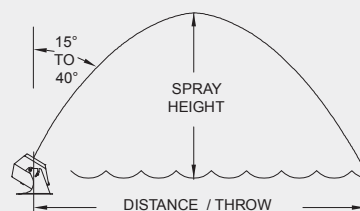
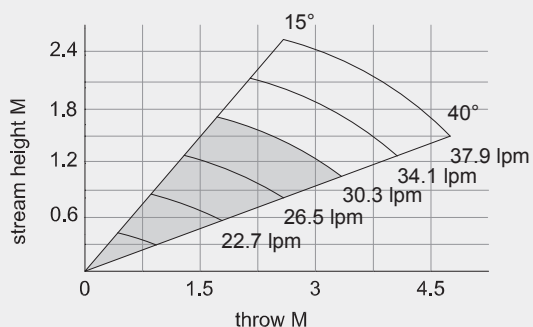
1.Choose Your Lighting Effect

2.Choose Your Mounting Type

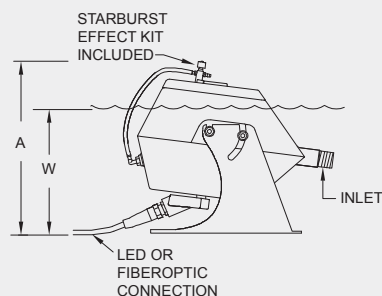
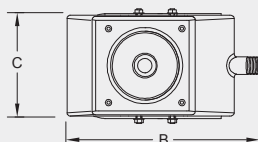
3.Get Part Number



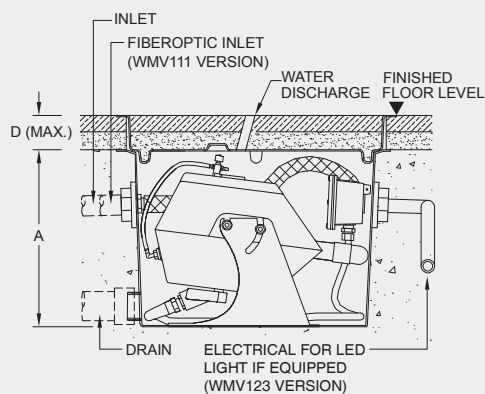
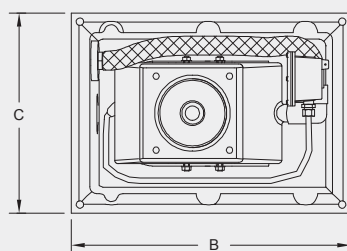
No Light or Fiberoptic Lighting		RGB LED Lighting	
Free Standing Laminar	Niched Laminar	Free Standing Laminar	Niched Laminar
WMV107	WMV111	WMV117	WMV123



WMV107/117



WMV111/123



WMV Series – Starburst Laminar

DIMENSIONS

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Installation	Filtration Required
WMV107 / WMV117	1"	280	356	204	216	Residential	50 micron max.
						Commercial	5 micron max.

DIMENSIONS

Part No.	Inlet (b.s.p.t.)	Drain Con- nection (mm)	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (max) (mm)	Installation	Filtration Required
WMV111 / WMV123	1"	51	420	578	432	77	Residential	50 micron max.
							Commercial	5 micron max.

How to Order - Choose Your Fiberoptic Laminar

CHOOSE MOUNTING

Mounting	Part No.
Stand	WMV107
Niche	WMV111

CHOOSE CABLE

Cable For...	Cable Length	Part No.
WMV107 / WMV111 - No Light	No cable required for no light version	N/A
WMV107 / WMV111 - Fiberoptic	Fiberoptic Cable 100 Strand (per m.)	EL CORD 8

CHOOSE ADDITIONAL OPTIONS

Options	Part No.
Fiberoptic Illuminator (fiberoptic light only)	CL1505

* Note: To turn WMV107 or WMV111 into fiberoptic version a fiberoptic illuminator must be purchased with cable selection

** Note: Power cable included in all WMV models

Choose Your RGB LED Laminar

CHOOSE MOUNTING

Mounting	Part No.
Stand	WMV117
Niche	WMV123

CHOOSE CABLE

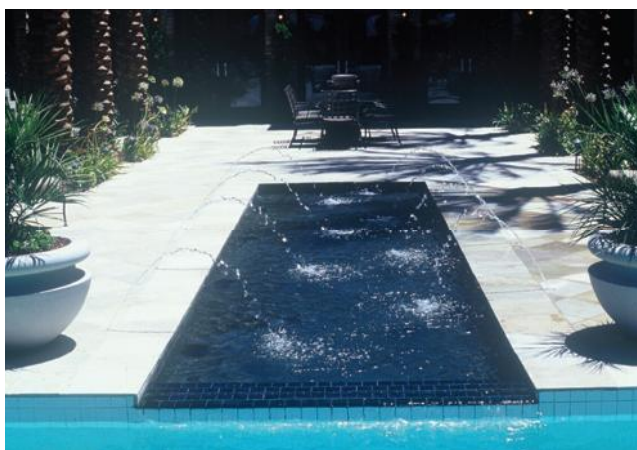
Cable For...	Cable Length	Part No.
WMV117	3 m.	EL CORD107M03
	6 m.	EL CORD107M06
	18 m.	EL CORD107M18
WMV123	Power Cable and LED Cable is Included with Laminar	

EXAMPLE OF HOW TO ORDER

Quantity	Product	Part No.
1	RGB LED Laminar with Niche	WMV117
1	3 m Cable	EL CORD34

STREAM JETS SERIES

A simple, elegant water effect, stream jets come in various formats to suit your application. For fast and easy changes of water effects, the Stream Jet, Crown Jet and Tri-Stream nozzles are interchangeable!



WMD115 – Tristream Jet

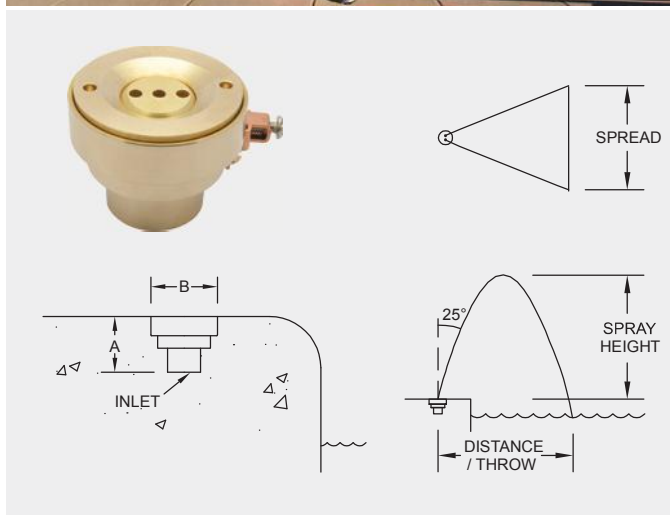
This directionally adjustable Tristream Jet is designed for swimming pools to public playground applications* that require flush deck level mounting. The 3 gentle slender streams of water are shot out from the 5mm holes on the directional ball, which is vandal resistance but easy to adjust with the optional security key. Recommend fine screening at pump for optimum effect (suction strainer openings 2mm). Available with optional winter cover (WMF081) and security key (WMF082). Made of machined cast bronze or brass. **Not water level dependent.**

VISIBILITY	■ ■ □ □ □
SOUND LEVEL	■ ■ □ □ □
WIND RESISTANCE	■ ■ □ □ □
SPLASH/MIST	■ ■ □ □ □
EFFICIENCY	■ ■ ■ ■ □

*For interactive play do not exceed 6 meters per second.

For fast and easy changes of water effects, the Stream Jet, Crown Jet and Tri-Stream nozzles are interchangeable!

*Contact Crystal Fountains for detailed specifications, installation and operation details.



DIMENSIONS

PERFORMANCE

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	Suction Strainer Openings max. mm.	Throw (m.)	0.6	1.3	1.6	2.2	2.5	3.1	3.7
WMD115	1"	51	64	2	LPM	9.0	13.0	17.0	19.0	21.0	23.0	25.0
					Head (m.)	3.1	3.1	3.1	3.1	3.1	3.1	3.1
					Spray Height (m.)	0.4	0.8	1	1.3	1.6	1.7	1.9
					Spread (cm.)	31	69	77	107	122	199	214

Options	Part No.
Cover Removal Key	WMF082
Winter Cover	WMF081



This product is available under our Quick Ship program! See page 15 for more details.

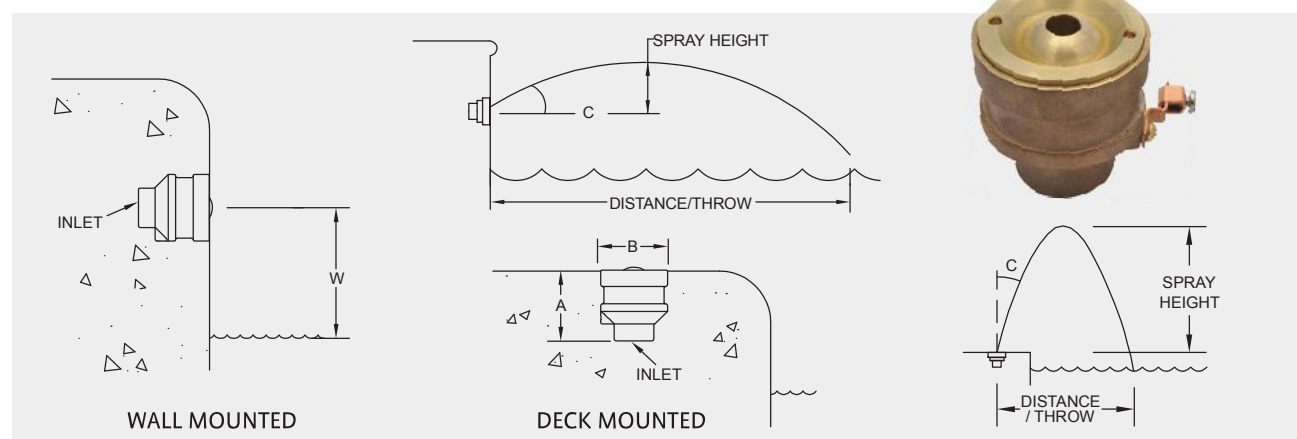
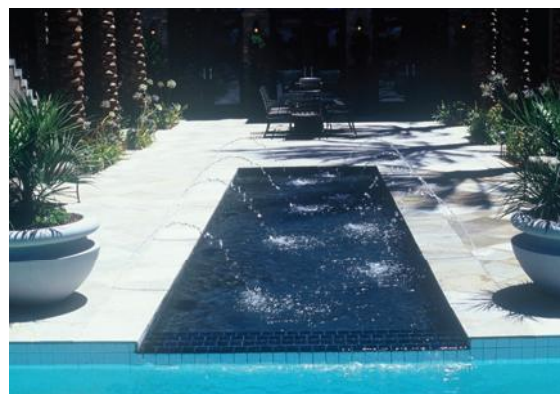
www.crystalfountains.com | + 1.905.660.6674

WMD110 – Stream Jet Multi

This directionally adjustable clear stream nozzle is designed for applications that require flush mounting such as swimming pool decks, walls and children's public water play areas *. It can be installed vertically or horizontally with jet angle adjustment up to 45°. The gentle slender column of water produced by the 10mm diameter opening is best used as a small to medium water feature nozzle. Recommend fine screening at pump for optimum effect (suction strainer openings 2mm). Available with optional winter cover (WMFo81) and removal key (WMFo82). Made of machined cast bronze and brass. **Not water level dependent.**

*For interactive play do not exceed 6 meters per second.

For fast and easy changes of water effects, the Stream Jet, Crown Jet, Stream Jet Multi and Tri-Stream nozzles are interchangeable!



*Contact Crystal Fountains for detailed specifications, installation and operation details.

DIMENSIONS

This product is available under our Quick Ship program! See page 15 for more details.

VISIBILITY

SOUND LEVEL

WIND RESISTANCE

SPLASH/MIST

EFFICIENCY

Options

Part No.

Cover Removal Key

WMF082

Winter Cover

WMF081

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Mount- ing	Degree of Nozzle	Throw (m.)	0.6	1.3	1.9	2.5	3.1
WMD110	1"	70	64	25°, 30°, 45°	102	2	Deck	25°	LPM	15.0	19.0	23.0		
									Head (m.)	1	1.3	1.9		
									Spray height (cm.)	41	81	122		
								30°	LPM	19.0	26.0	32.0	38.0	42.0
									Head (m.)	1	1.6	2.2	2.6	3.3
									Spray height (cm.)	31	56	87	114	138
								45°	LPM	19.0	25.0	30.0	34.0	38.0
									Head (m.)	1	1.6	2	2.5	2.9
									Spray height (cm.)	26	41	56	72	83
							Wall	25°	LPM	13.0	19.0	23.0	26.0	28.0
									Head (m.)	0.6	1.3	2	2.6	3.3
									Spray height (cm.)	13	20	26	35	41
								30°	LPM	17.0	25.0	30.0	34.0	38.0
									Head (m.)	0.6	1.3	1.7	2.2	2.6
									Spray height (cm.)	20	28	35	44	53
								45°	LPM	21.0	25.0	28.0	32.0	38.0
									Head (m.)	0.8	1.1	1.6	1.9	2.3
									Spray height (cm.)	31	41	56	67	83



This product is available under our Quick Ship program! See page 15 for more details.

VISIBILITY	■ ■ □ □ □
SOUND LEVEL	■ ■ □ □ □
WIND RESISTANCE	■ ■ □ □ □
SPLASH/MIST	■ ■ □ □ □
EFFICIENCY	■ ■ ■ ■ □

Options	Part No.
Cover Removal Key	WMFo82
Winter Cover	WMFo81

WMF076 – Crown Jet

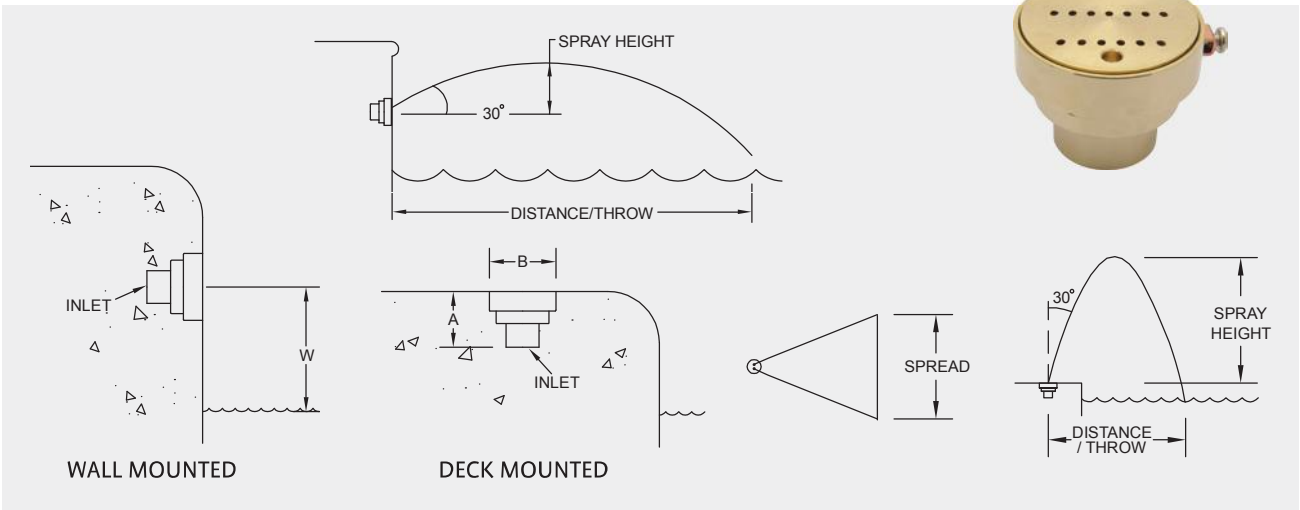
Designed to be flush mounted in a pool wall or deck, the Crown Jet has two rows of angled streams that create a gentle double spray that arch into the pool. Recommend fine screening at pump for optimum effect (suction strainer openings 1mm). Available with optional winter cover (WMF081) and removal key (WMF082). Made of machined cast bronze and brass.

* For interactive play do not exceed 6 meters per second.

For fast and easy changes of water effects, the Stream Jet, Crown Jet, Stream Jet Multi and Tri-Stream nozzles are interchangeable!



VISIBILITY	■ ■ ■ □ □
SOUND LEVEL	■ ■ □ □ □
WIND RESISTANCE	■ ■ □ □ □
SPLASH/MIST	■ ■ □ □ □
EFFICIENCY	■ ■ ■ ■ □



*Contact Crystal Fountains for detailed specifications, installation and operation details.



This product is available under our Quick Ship program! See page 15 for more details.

DIMENSIONS						PERFORMANCE							
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Mounting	Throw (m.)	0.4	0.6	1	1.3	1.6	1.9
WMFo76	1"	51	64	102	2	Deck	LPM	19.0	25.0	30.0	36.0	38.0	
							Head (m.)	1	1.3	1.6	1.9	2	
							Spray height (m.)	0.4	0.6	0.7	0.8	0.9	
							Spread (cm.)	83	117	135	171	205	
						Wall	LPM	9.0	13.0	21.0	26.0	30.0	36.0
							Head (m.)	0.5	0.4	0.8	1	1.3	1.6
							Spray height (m.)	0.2	0.2	0.3	0.3	0.4	0.4
							Spread (cm.)	31	41	68	87	107	133
Options		Part No.											
Cover Removal Key	WMFo82												
Winter Cover	WMFo81												

WMO Series – Foam Jet

Foam jets produce a mound of frothy, aerated water that provide a substantial visual and sound impact. Ideal for use in beach entry pools. Flush-mounted, these can be arranged individually or in a grouping and are child-safe at low LPM*. Available with no light, fiberoptic or RGB LED versions. Made of machine cast bronze and plastic. **Water level dependent.**

*For interactive play do not exceed 6 meters per second.

VISIBILITY	■ ■ ■ □ □
SOUND LEVEL	■ ■ □ □ □
WIND RESISTANCE	■ ■ ■ □ □
SPLASH/MIST	■ ■ □ □ □
EFFICIENCY	■ ■ ■ □ □



This product is available under our Quick Ship program! See page 15 for more details.



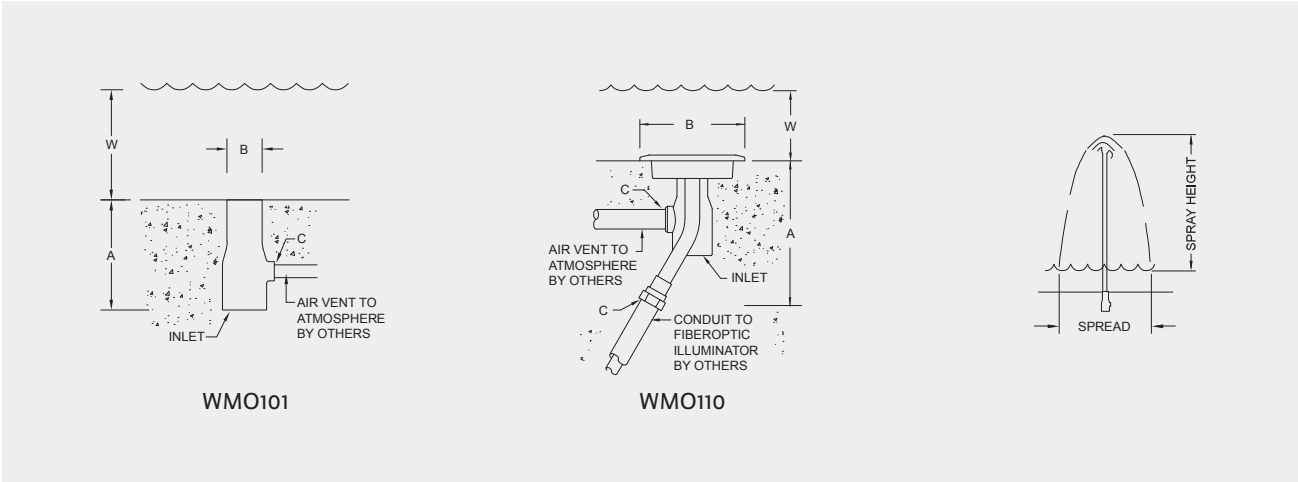
WMO101



WMO110



WMO Series – Foam Jet



DIMENSIONS							PERFORMANCE						
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (b.s.p.t.)	w dim. (max) (mm)	Suction Strainer Openings max. mm.	Water Depth (mm.)	Spray Height (m.)	0.4	0.6	1	1.3	
WMO101	1"	108	35	½"	127	7	77	LPM	79.0	102.0	125.0	136.0	
								Head (m.)	2.8	4.6	7.1	8.6	
								Spread (cm.)	31	46	72	92	
							102	LPM	83.0	110.0	132.0	144.0	
								Head (m.)	3.7	6.1	8.9	11	
								Spread (cm.)	31	53	83	114	
							127	LPM	91.0	121.0	140.0	159.0	
								Head (m.)	4.3	7.4	10.4	13.2	
								Spread (cm.)	31	53	83	107	
WMO110	1"	159	115	½"	127	7	77	LPM	79.0	102.0	125.0	136.0	
								Head (m.)	2.8	4.6	7.1	8.6	
								Spread (cm.)	366	549	854	1098	
							102	LPM	83.0	110.0	132.0	144.0	
								Head (m.)	3.7	6.1	8.9	11	
								Spread (cm.)	31	53	83	114	
							127	LPM	91.0	121.0	140.0	159.0	
								Head (m.)	4.3	7.4	10.4	13.2	
								Spread (cm.)	31	53	83	107	

CHOOSE JET

Lighting Option	Part No.
No Light	WMO101
Fiberoptic	WMO110

Options	Part No.
Winter Cover	WMO102

Fire and Water Bowls

Add the excitement of fire and water to your outdoor displays!

Or use the bowl as a planter, planter with water, water spillway or fire only displays. 4 beautiful bowl styles to choose from made of hammered copper or 4 colors of cast concrete. Great for use in backyards or small outdoor applications.

Versatile

- Bowls available in hammered copper or 4 different colors of cast concrete
- Bowl fill available in 3 different shapes of volcanic rock, decorative stone or 4 different colors of reflective glass
- Fire option operates using propane or natural gas

Easy installation

- Fire and Water bowls come as a complete kit
- Fire effect operates on 120VAC/60Hz or 220VAC/50Hz
- Water effect requires only 46-91 LPM

Safe

- Output voltage 24VAC
- Controls are electronic and comply with AGA and CSA standards

**Contact Crystal Fountains for detailed specifications, installation and operation details.*



The Moderno – WB100 Series

A clean-cut, contemporary bowl shape in hammered copper. A perfect addition for modern environments. Available in systems of 1 - 4 bowls that can run on one center panel, comes as a complete kit.

DIMENSIONS

Product Name	Series	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)
The Moderno	WB100-Series	229	737	432	305 - 381

How to Order

Select Bowl

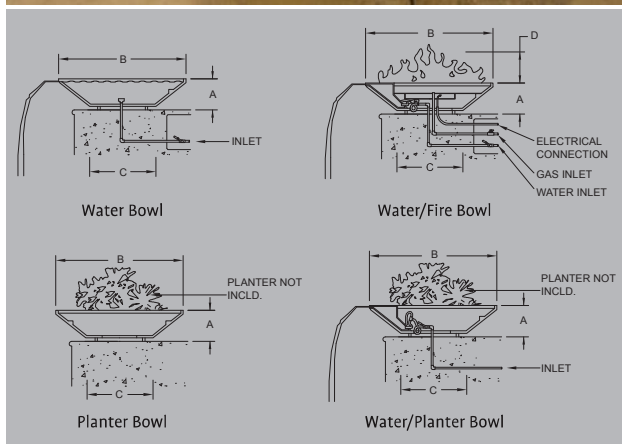
Part No.	Water	Fire	Number of Bowls
WB100	■		
WB110		■	1
WB110-2		■	2
WB110-3		■	3
WB110-4		■	4
WB120	■	■	1
WB120-2	■	■	2
WB120-3	■	■	3
WB120-4	■	■	4
WB130	Water Planter (planter not included)		
WB140	Decorative Bowl Only		

Add Propane Adder

Part No.	Bowl Filling
PA001	1-Bowl System
PA002	2-Bowl System
PA003	3 or 4 - Bowl System

Add Bowl Filling

Part No.	Bowl Filling	
WBA100	Lava Spheres	
WBA101	Lava Rocks	
WBA102	Rocks, Spheres and Prisms	
WBA103	Decorative Stone	
WBA104	Black Glass	
WBA105	Blue Glass	
WBA106	Bronze Glass	
WBA107	Copper Glass	



The Pantheon – WB200 Series

A very traditional urn shape bowl in hammered copper. A versatile addition to any location. Available in systems of 1 - 4 bowls that run on one center panel. Comes as a complete kit.

DIMENSIONS

Product Name	Series	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)
The Pantheon	WB200-Series	280	788	254	305 - 381


Select Bowl

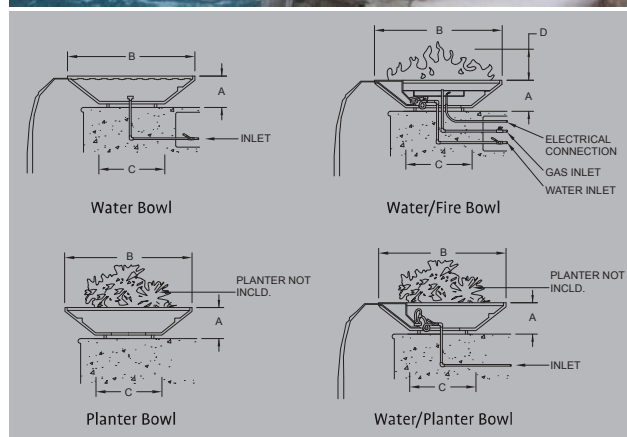
Part No.	Water	Fire	Number of Bowls
WB200	■		
WB210		■	1
WB210-2		■	2
WB210-3		■	3
WB210-4		■	4
WB220	■	■	1
WB220-2	■	■	2
WB220-3	■	■	3
WB220-4	■	■	4
WB230	Water Planter (planter not included)		
WB240	Decorative Bowl Only		

Add Propane Adder

Part No.	Bowl Filling
PA001	1-Bowl System
PA002	2-Bowl System
PA003	3 or 4 - Bowl System

Add Bowl Filling

Part No.	Bowl Filling	
WBA100	Lava Spheres	
WBA101	Lava Rocks	
WBA102	Rocks, Spheres and Prisms	
WBA103	Decorative Stone	
WBA104	Black Glass	
WBA105	Blue Glass	
WBA106	Bronze Glass	
WBA107	Copper Glass	



The Villa – WB300 Series

A classic bowl shape of cast concrete with strong lines and substantial edge. Available in systems of 1 - 4 bowls that run on one control panel. Comes as a complete kit.

DIMENSIONS

Product Name	Series	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)
The Villa	WB300-Series	254	788	254	305 - 381

Select Bowl

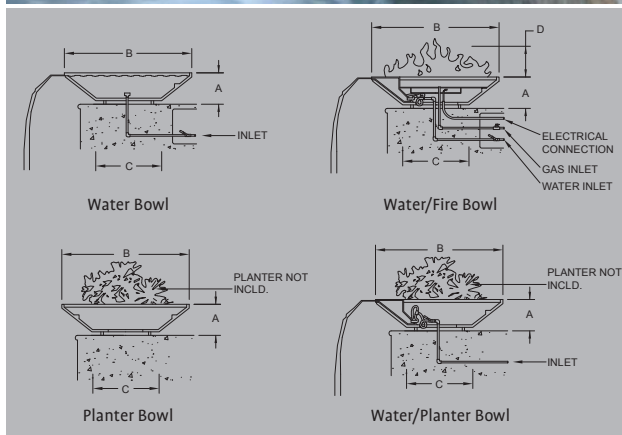
Noir	Cocoa	Olive	Umbre	Water	Fire	Number of Bowls
WB300	WB301	WB302	WB303	■		
WB310	WB311	WB312	WB313		■	1
WB310-2	WB311-2	WB312-2	WB313-2		■	2
WB310-3	WB311-3	WB312-3	WB313-3		■	3
WB310-4	WB311-3	WB312-3	WB313-3		■	4
WB320	WB321	WB322	WB323	■	■	1
WB320-2	WB321-2	WB322-2	WB323-2	■	■	2
WB320-3	WB321-3	WB322-3	WB323-3	■	■	3
WB320-4	WB321-4	WB322-4	WB323-4	■	■	4
WB330	WB331	WB332	WB333	Water Planter (planter not included)		
WB340	WB341	WB342	WB343	Decorative Bowl Only		

Add Propane Adder

Part No.	Bowl Filling
PA001	1-Bowl System
PA002	2-Bowl System
PA003	3 or 4 - Bowl System

Add Bowl Filling

Part No.	Bowl Filling	
WBA100	Lava Spheres	
WBA101	Lava Rocks	
WBA102	Rocks, Spheres and Prisms	
WBA103	Decorative Stone	
WBA104	Black Glass	
WBA105	Blue Glass	
WBA106	Bronze Glass	
WBA107	Copper Glass	



The Camelot – WB400 Series

This low-profile bowl of cast concrete has an inviting shape and spherical ball-feet giving it real presence. Available in systems of 1 - 4 bowls that can run on one control panel. Comes as a complete kit.

DIMENSIONS

Product Name	Series	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)
The Camelot	WB400-Series	229	813	458	305 - 381

Select Bowl

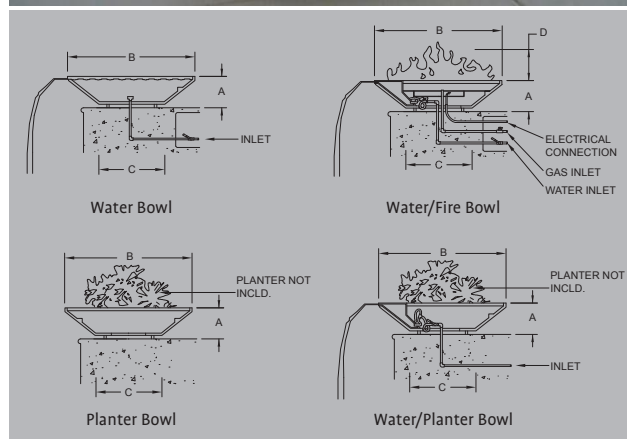
Noir	Cocoa	Olive	Umbur	Water	Fire	Number of Bowls
WB400	WB401	WB402	WB403	■		
WB410	WB411	WB412	WB413		■	1
WB410-2	WB411-2	WB412-2	WB413-2		■	2
WB410-3	WB411-3	WB412-3	WB413-3		■	3
WB410-4	WB411-3	WB412-3	WB413-3		■	4
WB420	WB421	WB422	WB423	■	■	1
WB420-2	WB421-2	WB422-2	WB423-2	■	■	2
WB420-3	WB421-3	WB422-3	WB423-3	■	■	3
WB420-4	WB421-4	WB422-4	WB423-4	■	■	4
WB430	WB431	WB432	WB433	Water Planter (planter not included)		
WB440	WB441	WB442	WB443	Decorative Bowl Only		

Add Propane Adder

Part No.	Bowl Filling
PA001	1-Bowl System
PA002	2-Bowl System
PA003	3 or 4 - Bowl System

Add Bowl Filling

Part No.	Bowl Filling	
WBA100	Lava Spheres	
WBA101	Lava Rocks	
WBA102	Rocks, Spheres and Prisms	
WBA103	Decorative Stone	
WBA104	Black Glass	
WBA105	Blue Glass	
WBA106	Bronze Glass	
WBA107	Copper Glass	



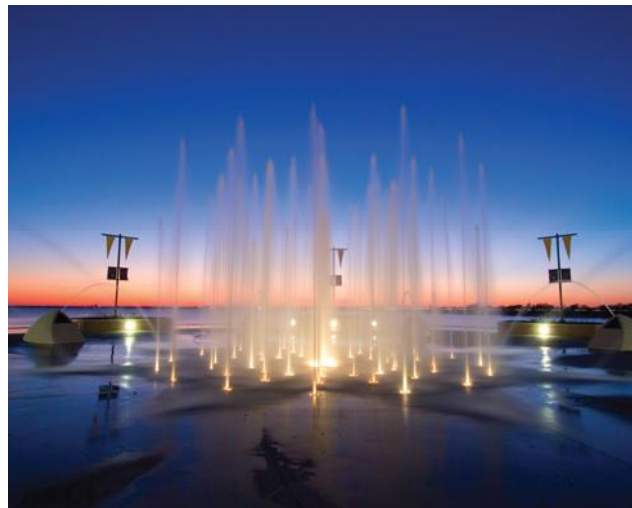
PROGRAMMABLE SEQUENCING NOZZLES

Playful, Entertaining, Versatile Fountains and Playdecks

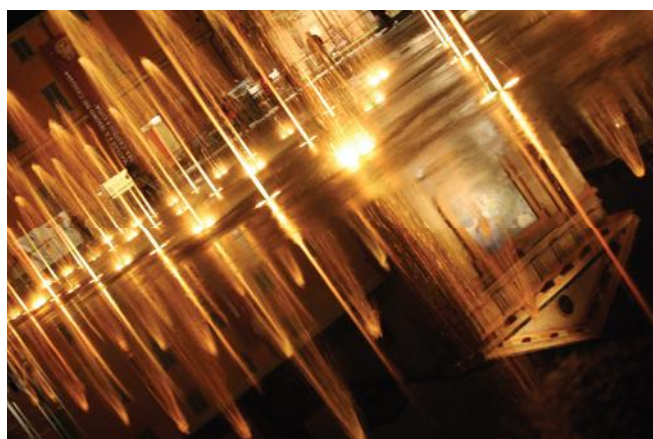
Over the past number of years, fountain designers have been experimenting with interactive water features enticing the public to not only watch but participate. Fountains that entertain and are choreographed with music and color-changing lighting have also become quite popular. Crystal Fountains has been at the forefront of these advanced water feature technologies with patented ChoreoSwitches that produce incredibly fast programmed effects and the optical illusion of playful Leapers, Laminars and Starburst Laminars.

These nozzles are part of a more sophisticated system and require control panels and programming. Crystal Fountains' talented team can help you with pre-programmed shows or help develop a custom water and light show to meet your needs!

114	PROGRAMMABLE SEQUENCING NOZZLES
115	ChoreoSwitch for Fountains and Decks
117	PROGRAMMABLE SEQUENCING NOZZLES FOR FOUNTAINS
118	ChoreoSwitch Sequencing Plume Nozzle
120	ChoreoSwitch Sequencing Aerator Nozzle
122	PROGRAMMABLE SEQUENCING NOZZLES FOR DECKS
125	Playdeck ChoreoSwitch – Round Slab Hanger
126	Playdeck ChoreoSwitch – Square Slab Hanger
127	Playdeck ChoreoSwitch – Round Niche
128	Playdeck ChoreoSwitch – Square Niche
129	Playdeck ChoreoSwitch – How to Order
130	SWT Series – ChoreoSwitch Finger Jet
131	NPN Series – Pop Nozzle Jet



CHOREOSWITCHES®



Crystal Fountains proprietary ChoreoSwitch is a sequencing device used to create exciting programmed effects in interactive play decks* or more traditional but entertaining fountains. Each ChoreoSwitch is an all-in-one unit that makes it easy for installation, maintenance and public safety.

The key feature of the ChoreoSwitch is the solenoid device that can produce fast sequencing effects at high switching speeds (up to 10x per second with no waterhammer to piping)! The unique design also delivers constant flow to all nozzles ensuring equal heights.

*For interactive play, do not exceed 6 meters per second.

ChoreoSwitch standard Features:

- 12VDC or 24VAC
- Operates on International electrical frequencies (50/60Hz)
- Comes with patented clean-out door for easy maintenance
- Patented media isolation valve to protect solenoid from corrosion
- Built-in solenoid operation light

ChoreoSwitch Features - Playdeck:

- 4 different nozzle effects
- Choice of RGB LED light, White LED light or no light options
- Round Niche, Square Niche or Suspended deck applications
- Stainless steel finish

ChoreoSwitch Features - Fountains:

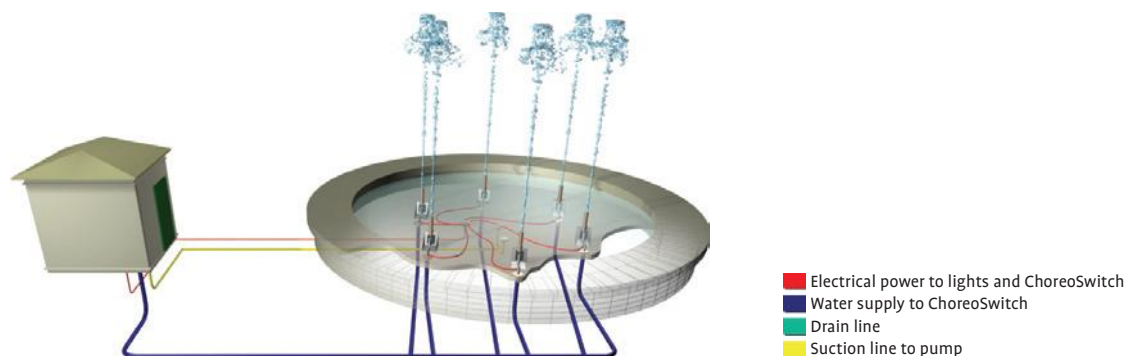
- Nozzles available in bronze or black plastic
- With 26mm or 39mm inlets
- Available in Plume or Aerator effects
- Adjustable stainless steel base
- Can operate in or out of water

*NOTE: Water quality needs to be monitored for optimum nozzle performance.

Typical Systems Design For ChoreoSwitches – Fountains

- For a more traditional but entertaining programmed fountain, Choreoswitches are installed within a fountain pool.
- Nozzles are placed in fountain pool
- Water then pumped to nozzles via a pumping station*
- Controllers and sequencing devices make the fountain more entertaining for all audiences.

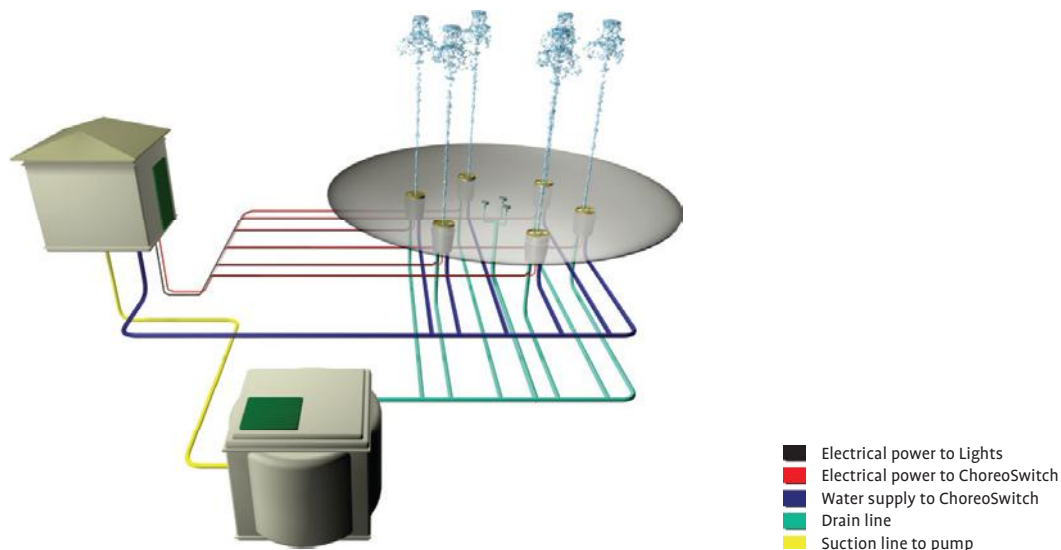
*NOTE: Water quality needs to be monitored for optimum nozzle performance.



Typical Systems Design For Choreoswitches – Play deck

- Interactive water features/play decks have become extremely popular inviting the public in to “play”.
- Nozzles are placed in a deck surround (poured dry deck or suspended deck)
- Water drains through the surround into a holding tank
- Water then pumped to nozzles via a pumping station*
- Controllers and sequencing devices make the play experience much more fun.

*NOTE: Water quality needs to be strictly monitored for public safety.



PROGRAMMABLE SEQUENCING NOZZLES – FOR FOUNTAINS

This section shows ChoreoSwitch® products appropriate for fountains with no public access/interaction (for deck mounted/ playdeck solutions with no standing body of water see next section.)

ChoreoSwitches for fountains are available in these variations:

- 2 types of nozzle effects (Plume = Streamy or Aerator = Foamy)
- 2 different inlet sizes for effect (26mm and 39mm)
- Available in 12VDC or 24VAC

The Crystal Fountains ChoreoSwitch is an exciting sequencing* unit that produces programmed effects at high sequencing speed (up to 10 times per second producing no waterhammer).

Versatile:

- Operates under 50/60 Hz AC signal for global applications
- Multiple ChoreoSwitches can produce a wide variety of geometric patterns
- You can produce multiple heights using a variable speed drive pump
- The unit can be installed out of water or submerged to maximum water level shown

Easy Installation:

- The unit can be adjusted up to 5° for installation alignment.

Easy Maintenance:

- Know when your unit is working - the ChoreoSwitch comes with a power current verifying LED light.
- Unique to the ChoreoSwitch, a service door compartment allows easy debris clean-out for maintenance.**

Comes with an optional Quick Connection Kit (SWS100A600 - 25mm gate valve, fittings and quick disconnect Cam-lock).

Made of plastic and stainless steel complete with 3m of 1 $\frac{3}{8}$ STW submersible cable and 3m of reinforced flexible hose. Available with brass nozzles upon request. **Water level independent.**

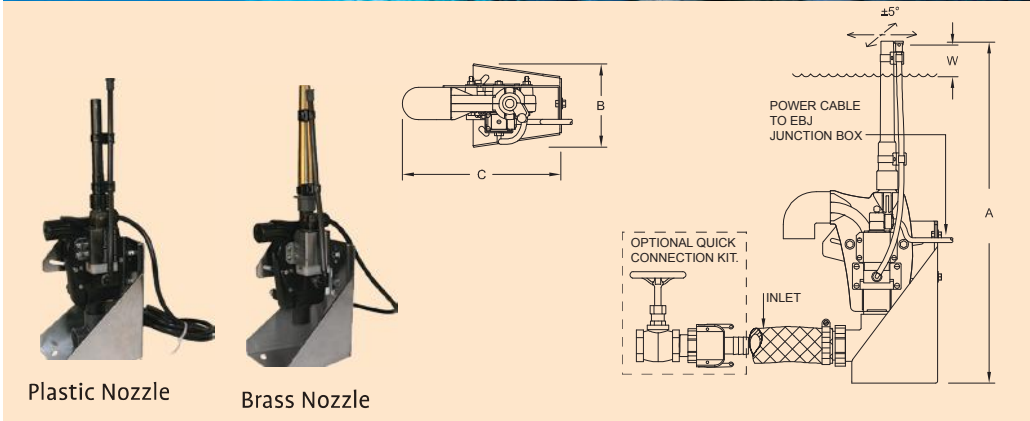
*Recommend filtered water supply (500 microns) using a discharge filter.

**Contact Crystal Fountains for detailed specifications, installation and operation details.

Which ChoreoSwitch Do I Need?

1. Choose Your Effect	Streamy Effect (Plume Nozzle)								Foamy Effect (Aerator Nozzle)			
	1" Water Inlet				1 1/2" Water Inlet				1" Water Inlet		1 1/2" Water Inlet	
2. Choose Your Size												
	12VDC		24VAC		12VDC		24VAC		12VDC	24VAC	12VDC	24VAC
3. Select Voltage												
	Plastic Jet	Brass Jet	Plastic Jet	Brass Jet	Plastic Jet	Brass Jet	Plastic Jet	Brass Jet	Brass Jet	Brass Jet	Brass Jet	Brass Jet
4. Select Jet												
	SWS127	SWS129	SWS101	SWS109	SWS139	SWS140	SWS151	SWS162	SWS145	SWS100	SWS152	SWS150
5. Get Part Number												

ChoreoSwitch® Sequencing Plume Nozzle



ChoreoSwitch® Sequencing Plume Nozzle

DIMENSIONS

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Exhaust	Spray height (m.)	1.6	3.1	4.6	6.1	6.8
SWS127 / SWS101 (Plastic Jet)	1"	435	134	197	26	4	Not Submerged	LPM	34.0	49.0	61.0	68.0	72.0
								Head (m.)	6.5	11.3	17.1	21.4	23.2
								Spread (cm.)	46	122	138	138	138
							Submerged	LPM	38.0	49.0	61.0	72.0	76.0
								Head (m.)	6.1	11.3	17.4	23.2	25.7
								Spread (cm.)	61	107	138	138	138

DIMENSIONS

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Exhaust	Spray height (m.)	1.6	3.1	4.6	6.1	6.8
SWS129 / SWS109 (Brass Jet)	1"	435	134	197	26	4	Not Submerged	LPM	34.0	49.0	61.0	68.0	72.0
								Head (m.)	6.5	11.3	17.1	21.4	23.2
								Spread (cm.)	46	122	138	138	138
							Submerged	LPM	38.0	49.0	61.0	72.0	76.0
								Head (m.)	6.1	11.3	17.4	23.2	25.7
								Spread (cm.)	61	107	138	138	138

DIMENSIONS

PERFORMANCE

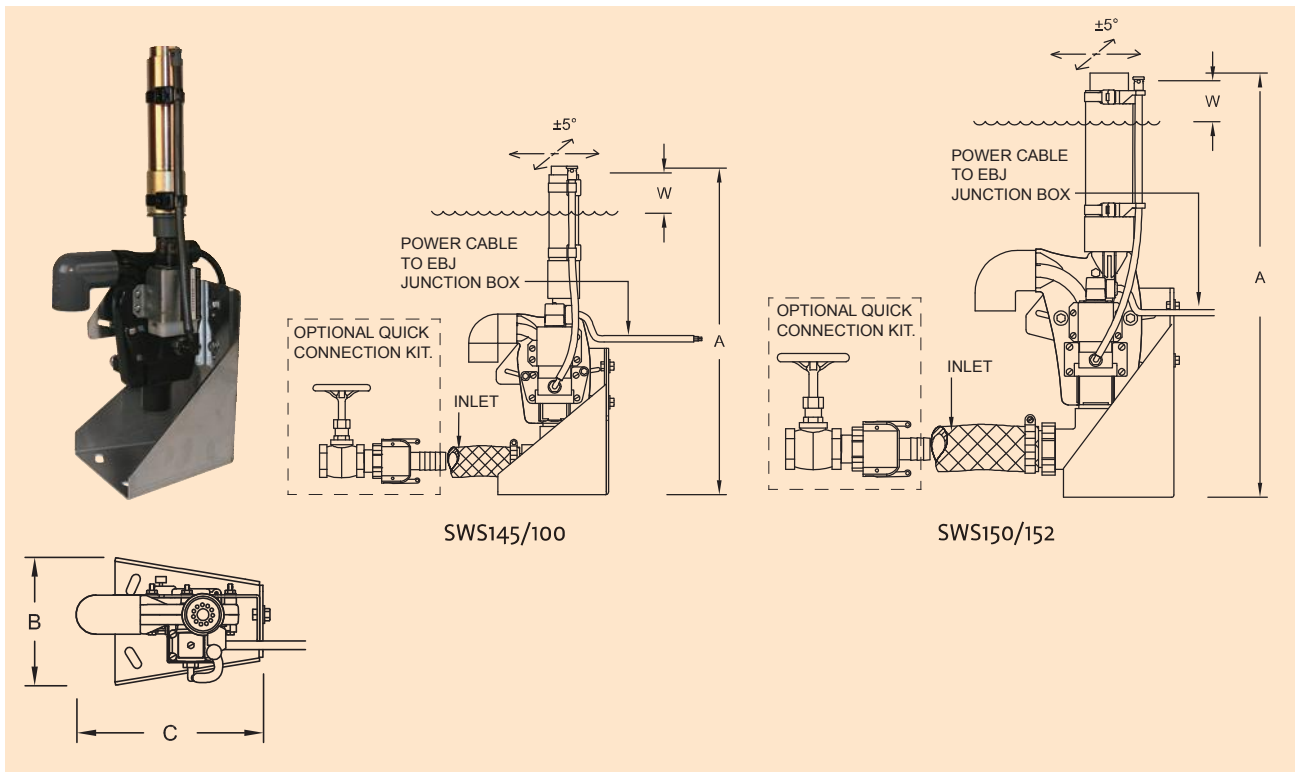
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Exhaust	Spray height (m.)	0.9	2.2	3.1	4.0	4.6	6.8	7.4	9.2	10.7
SWS139 / 151 (Plastic Jet)	1 1/2"	623	147	280	51	4	Not Submerged	LPM	57.0	76.0	97.0	110.0	114.0	136.0	163.0	174.0	189.0
								Head (m.)	3.1	5.1	8.1	10.3	11.6	17.4	25.7	30.8	37.5
								Spread (cm.)	46	77	138	153	153	168	305	336	366
							Submerged	LPM	55.0	81.0	95.0	110.0	117.0	148.0	185.0	201.0	220.0
								Head (m.)	3.1	5.8	8	10.4	11.9	20.8	26.6	31.1	38.1
								Spread (cm.)	46	61	138	153	153	275	305	336	366

DIMENSIONS

PERFORMANCE

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Exhaust	Spray height (m.)	0.9	2.2	3.1	4.0	4.6	6.8	7.4	9.2	10.7
SWS140 / 162 (Brass Jet)	1 1/2"	623	147	280	51	4	Not Submerged	LPM	76.0	102.0	117.0	132.0	148.0	159.0	178.0	197.0	216.0
								Head (m.)	4.3	7.7	10.1	13.2	15.9	21.1	28.1	35.1	42.1
								Spread (cm.)	61	77	138	153	153	168	305	305	305
							Submerged	LPM	76.0	102.0	117.0	132.0	148.0	159.0	178.0	197.0	216.0
								Head (m.)	4.3	7.7	10.1	13.2	15.9	21.1	28.1	35.1	42.1
								Spread (cm.)	61	77	138	153	153	168	305	305	305

ChoreoSwitch® Sequencing Aerator Nozzle



ChoreoSwitch® Sequencing Aerator Nozzle

DIMENSIONS

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Exhaust	Spray height (m.)	1.6	3.1	4.3
SWS145 / SWS100 (Brass Jet)	1"	464	134	197	26	4	Not Submerged	LPM	45.0	60.0	72.0
								Head (m.)	10.7	19.3	26
								Spread (cm.)	77	153	153
							Submerged	LPM	53.0	72.0	79.0
								Head (m.)	12.5	24.1	34.2
								Spread (cm.)	61	138	153

DIMENSIONS

PERFORMANCE

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Suction Strainer Openings max. mm.	Exhaust	Spray height (m.)	1	2.2	3.1	4.6	6.1	7.7	9.2	10.7
SWS150/ SWS152 (Brass Jet)	1 1/2"	597	147	280	51	4	Not Submerged	LPM	76.0	102.0	127.0	167.0	176.0	185.0	204.0	227.0
								Head (m.)	5.1	10	13.6	28.7	34.5	40	47.3	58
								Spread (cm.)	46	77	153	153	244	305	336	366
							Submerged	LPM	79.0	114.0	140.0	174.0	193.0	212.0	223.0	229.0
								Head (m.)	5.8	11.8	17	32.4	40.9	49.4	56.4	59.8
								Spread (cm.)	46	61	138	153	244	305	336	366

How to Order

CHOOSE CHOREOSWITCH

Desired Effect	Inlet Size (b.s.p.t.)	Voltage	Jet	Part No.
Streamy Effect (Plume Nozzle)	1"	12VDC	Plastic	SWS127
			Brass	SWS129
		24VAC	Plastic	SWS101
			Brass	SWS109
	1 1/2"	12VDC	Plastic	SWS139
			Brass	SWS140
		24VAC	Plastic	SWS151
			Brass	SWS162
Foamy Effect (Aerator Nozzle)	1"	12VDC	Brass	SWS145
		24VAC	Brass	SWS100
	1 1/2"	12VDC	Brass	SWS152
		24VAC	Brass	SWS150

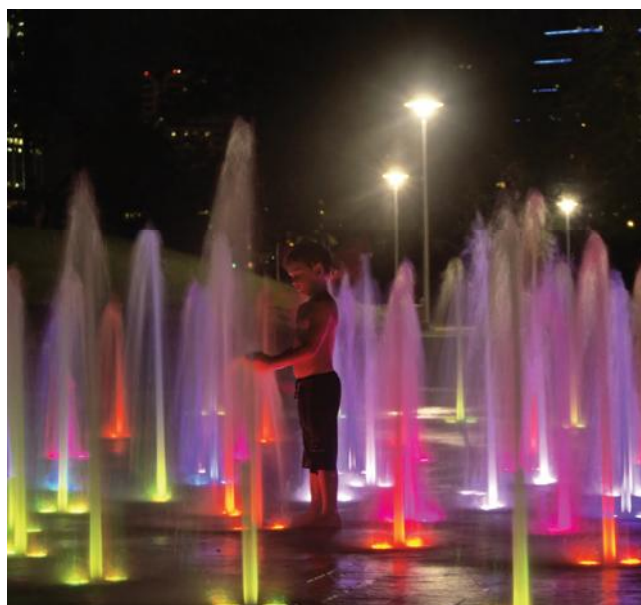
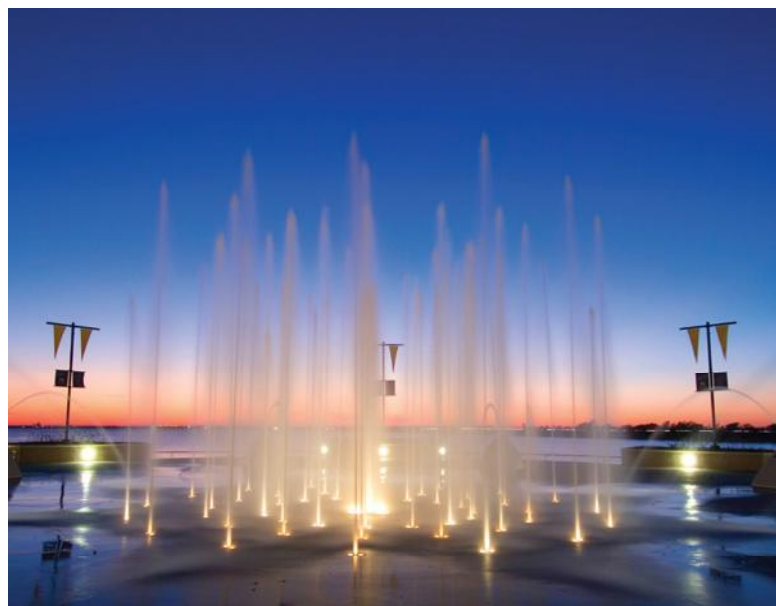
CHOOSE ADDITIONAL OPTIONS

Options	Part No.
Quick Connection Kit	SWS100A600

EXAMPLE OF HOW TO ORDER

Quantity	Product	Part No.
1	ChoreoSwitch for Fountain - 40 mm Streamy Effect 12VDC with Plastic Nozzle	SWS139
1	Quick Connection Kit	SWS100A600

PROGRAMMABLE SEQUENCING NOZZLES – FOR DECKS



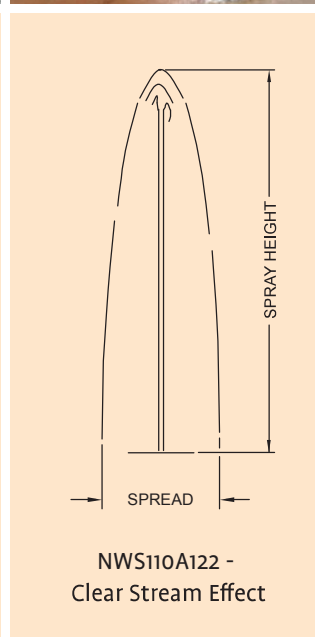
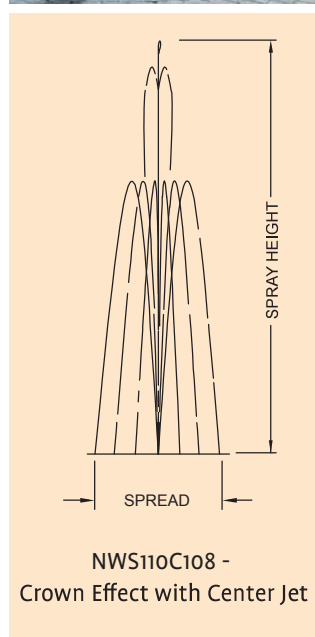
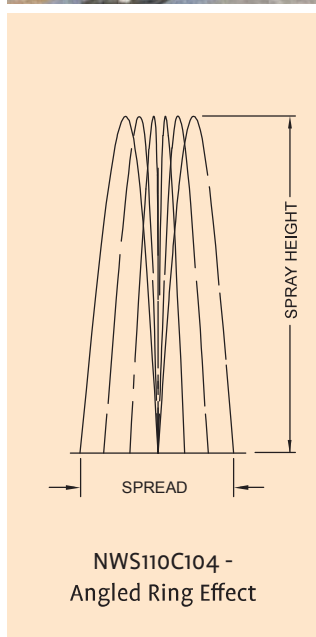
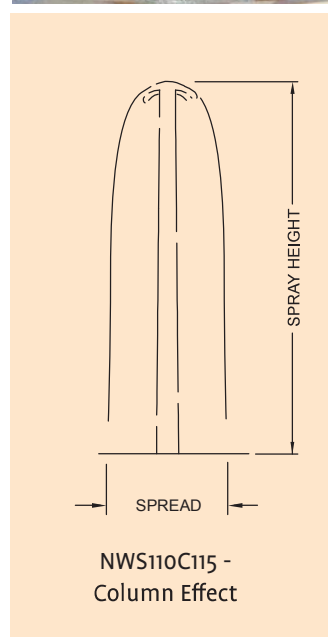
PROGRAMMABLE SEQUENCING NOZZLES – FOR DECKS

This section of ChoreoSwitches® shows products with and without built-in LED lighting along with the nozzle. These products are appropriate for suspended deck or poured deck fountains (playdecks) with no standing body of water.

ChoreoSwitches appropriate for this application come in these variations:

- Suspended Deck (slab hanger style)
- Poured Deck (niche style)
- Niches - round or square
- 4 different nozzle effects (column, angled ring, crown effect, clear stream)
- Stainless Steel finish
- 12 VDC LED RGB or white lights (with spot or flood lamps) or unlit

Not all LEDs are created equally! Crystal Fountains LED products produce a high intensity light and deliver perfect optical performance. Also, see Crystal Fountains power/data and controller products to create a complete LED system.



**Contact Crystal Fountains for detailed specification, installation and operation details.*

PROGRAMMABLE SEQUENCING NOZZLES – FOR DECKS

The Crystal Fountains ChoreoSwitch® is an exciting interactive unit that produces programmed effects at high sequencing speed (up to 10 times per second producing no waterhammer).

Safe:

- Flush-mounted nozzles mean no tripping hazards on deck for interactive play *
- 10mm opening on grate meets safety code for toe entrapment
- Deck surrounds have no water accumulation
- Safe interactive play running at 6 meters per second
- Low voltage lights are covered with lexan covers to remain cool to the touch
- Vandal resistant

Versatile:

- 12 VDC LED RGB units produce dramatic evening light shows
- Multiple ChoreoSwitches can produce a wide variety of geometric patterns
- You can produce multiple heights using a variable speed drive pump
- The unit can be installed out of water or submerged to maximum water level shown

Easy Installation:

- The unit can be adjusted up to 5° for installation alignment
- Rotating grill assembly for fine-tuning layout pattern
- Comes standard with construction covers for use during installation

Easy Maintenance


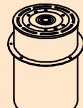
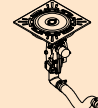
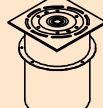
- Know when your unit is working - the ChoreoSwitch comes with a power current verifying LED light
- Unique to the ChoreoSwitch, a service door compartment allows easy debris clean-out for maintenance

Comes with optional Vandal Resistant Screwdriver (FA0342). Made of plastic and stainless steel. Niche is preassembled, slab hanger style is preassembled with 3m of STW submersible cable and 3m of reinforced flexible hose. **Water level independent.**

*For interactive play, do not exceed 6 meters per second.

**Recommend filtered water supply (500 microns) using a discharge filter.

Which Dry Deck ChoreoSwitch Do I Need?

1. Choose Your Style	ROUND TOP						SQUARE TOP					
	SLAB HANGER			NICHED			SLAB HANGER			NICHED		
2. Choose Your Application												
	No Light	White LED	RGB LED	No Light	White LED	RGB LED	No Light	White LED	RGB LED	No Light	White LED	RGB LED
3. Choose Your Lighting Effect	SWS115	LED180	LED182	SWS132	LED184	LED186	SWS125	LED181	LED183	SWS138	LED185	LED187
4. Get Part Number												

Playdeck ChoreoSwitch® Round Slab Hanger Version



DIMENSIONS

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Suction Strainer Open- ings max. mm.
SWS115	1"	280	280	254	77 (min.)	4

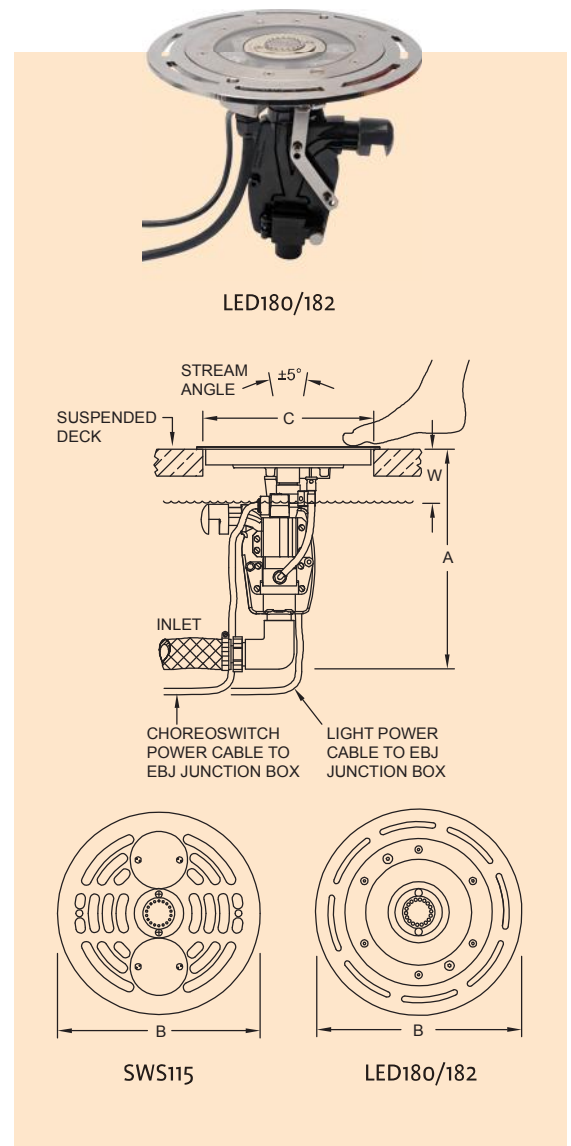
DIMENSIONS

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Suction Strainer Open- ings max. mm.
LED180	1"	280	280	254	77 (min.)	4
LED182	1"	280	280	254	77 (min.)	4

PERFORMANCE

Nozzle	Spray height (m.)	1	1.6	2.2	2.8	3.4	4.3	4.9	
NWS110C115	LPM	36.0	43.0	51.0	57.0	62.0	68.0	72.0	
	Head (m.)	5.4	7.8	10.4	13	16.5	21.7	24.7	
	Spread (cm.)	61	77	92	122	153	183	183	
Nozzle	Spray height (m.)	0.6	1	1.3	1.6	1.9	2.2	2.5	
NWS110C104	LPM	28.0	36.0	40.0	47.0	49.0	53.0	59.0	
	Head (m.)	3.3	5.1	6.9	9.2	10.1	11.3	14.2	
	Spread (cm.)	61	92	92	122	122	138	138	
Nozzle	Spray height (m.)	Plume	1	1.4	1.9	2.3	2.8	3.4	3.7
		Ring	0.5	0.6	0.8	1.1	1.3	1.6	1.9
NWS110C108	LPM	32.0	36.0	40.0	47.0	51.0	55.0	57.0	
	Head (m.)	4.2	5.7	7.1	8.9	10.1	13.2	14.4	
	Spread (cm.)	61	61	77	92	122	153	183	
Nozzle	Spray height (m.)	1	1.6	2.2	3.1	4	4.6		
NWS100A122	LPM	28.0	36.0	40.0	49.0	57.0	60.0		
	Head (m.)	3.6	5.4	6.9	10.1	13.2	15.4		
	Spread (cm.)	46	61	61	61	92	92		

Not all LEDs are created equally! Crystal Fountains LED products produce a high intensity light and deliver perfect optical performance. Also, see Crystal Fountains power/data and controller products to create a complete LED system.



Playdeck ChoreoSwitch® Square Slab Hanger Version



DIMENSIONS

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Suction Strainer Open- ings max. mm.
SWS125	1"	299	286	254	77 (min.)	4

DIMENSIONS

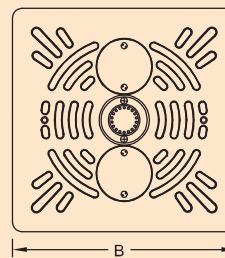
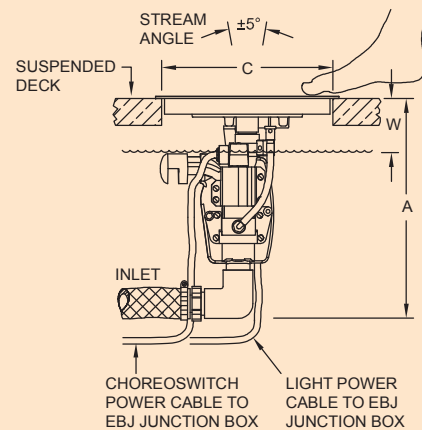
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Suction Strainer Open- ings max. mm.
LED181	1"	299	299	254	77 (min.)	4
LED183	1"	299	299	254	77 (min.)	4

PERFORMANCE

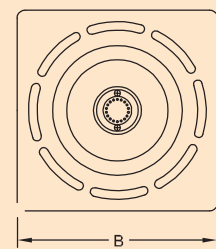
Nozzle	Spray height (m.)	1	1.6	2.2	2.8	3.4	4.3	4.9	
NWS110C115	LPM	36.0	43.0	51.0	57.0	62.0	68.0	72.0	
	Head (m.)	5.4	7.8	10.4	13	16.5	21.7	24.7	
	Spread (cm.)	61	77	92	122	153	183	183	
Nozzle	Spray height (m.)	0.6	1	1.3	1.6	1.9	2.2	2.5	
NWS110C104	LPM	28.0	36.0	40.0	47.0	49.0	53.0	59.0	
	Head (m.)	3.3	5.1	6.9	9.2	10.1	11.3	14.2	
	Spread (cm.)	61	92	92	122	122	138	138	
Nozzle	Spray height (m.)	Plume	1	1.4	1.9	2.3	2.8	3.4	3.7
		Ring	0.5	0.6	0.8	1.1	1.3	1.6	1.9
NWS110C108	LPM	32.0	36.0	40.0	47.0	51.0	55.0	57.0	
	Head (m.)	4.2	5.7	7.1	8.9	10.1	13.2	14.4	
	Spread (cm.)	61	61	77	92	122	153	183	
Nozzle	Spray height (m.)	1	1.6	2.2	3.1	4	4.6		
NWS100A122	LPM	28.0	36.0	40.0	49.0	57.0	60.0		
	Head (m.)	3.6	5.4	6.9	10.1	13.2	15.4		
	Spread (cm.)	46	61	61	61	92	92		



LED181/183



SWS125



LED181/183

Playdeck ChoreoSwitch® Round Nighed Version



DIMENSIONS

Part No.	Inlet (b.s.p.t.)	Electrical Connection (mm)	Drain Connection (mm)	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)	Suction Strainer Openings max. mm.
SWS132	1"	20	77	407	331	293	112	4

DIMENSIONS

Part No.	Inlet (b.s.p.t.)	Electrical Connection (mm)	Drain Connection (mm)	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)	Suction Strainer Openings max. mm.
LED184	1"	20	77	407	331	280	112	4
LED186	1"	20	77	407	331	280	112	4

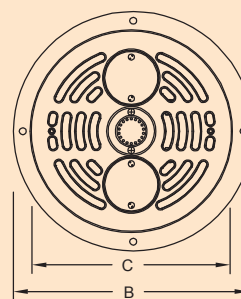
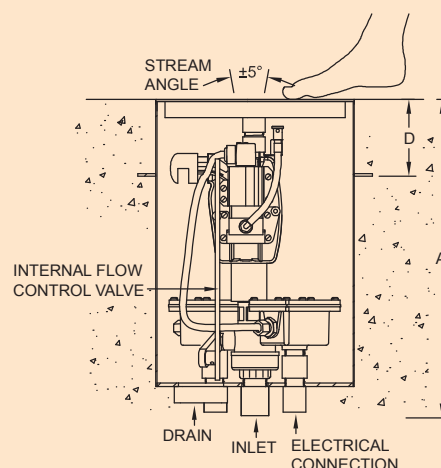
PERFORMANCE

Nozzle	Spray height (m.)	1	1.6	2.2	2.8	3.4	4.3	4.9
NWS110C115	LPM	36.0	43.0	51.0	57.0	62.0	68.0	72.0
	Head (m.)	5.4	7.8	10.4	13	16.5	21.7	24.7
	Spread (cm.)	61	77	92	122	153	183	183
Nozzle	Spray height (m.)	0.6	1	1.3	1.6	1.9	2.2	2.5
NWS110C104	LPM	28.0	36.0	40.0	47.0	49.0	53.0	59.0
	Head (m.)	3.3	5.1	6.9	9.2	10.1	11.3	14.2
	Spread (cm.)	61	92	92	122	122	138	138
Nozzle	Spray height (m.)	Plume	1	1.4	1.9	2.3	2.8	3.4
		Ring	0.5	0.6	0.8	1.1	1.3	1.6
NWS110C108	LPM	32.0	36.0	40.0	47.0	51.0	55.0	57.0
	Head (m.)	4.2	5.7	7.1	8.9	10.1	13.2	14.4
	Spread (cm.)	61	61	77	92	122	153	183
Nozzle	Spray height (m.)	1	1.6	2.2	3.1	4	4.6	
NWS100A122	LPM	28.0	36.0	40.0	49.0	57.0	60.0	
	Head (m.)	3.6	5.4	6.9	10.1	13.2	15.4	
	Spread (cm.)	46	61	61	61	92	92	

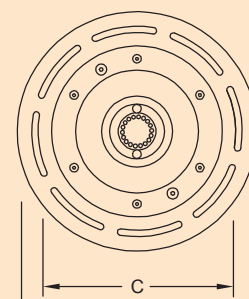
Not all LEDs are created equally! Crystal Fountains LED products produce a high intensity light and deliver perfect optical performance. Also, see Crystal Fountains power/data and controller products to create a complete LED system.



LED184/186



SWS132



LED184/186

Playdeck ChoreoSwitch® Square Niched Version



DIMENSIONS

Part No.	Inlet (b.s.p.t.)	Electrical Connection (mm)	Drain Connection (mm)	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)	Suction Strainer Openings max. mm.
SWS 138	1"	20	77	407	331	293	112	4

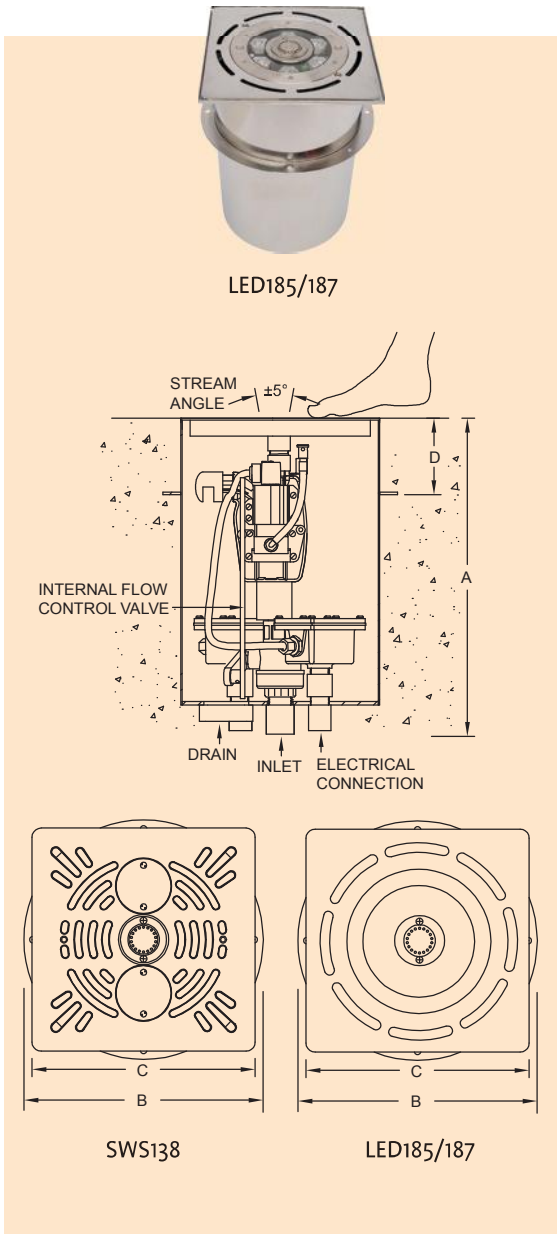
DIMENSIONS

Part No.	Inlet (b.s.p.t.)	Electrical Connection (mm)	Drain Connection (mm)	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)	Suction Strainer Openings max. mm.
LED185	1"	20	77	407	331	280	112	4
LED187	1"	20	77	407	331	280	112	4

PERFORMANCE

Nozzle	Spray height (m.)	1	1.6	2.2	2.8	3.4	4-3	4.9	
NWS110C115	LPM	36.0	43.0	51.0	57.0	62.0	68.0	72.0	
	Head (m.)	5.4	7.8	10.4	13	16.5	21.7	24.7	
	Spread (cm.)	61	77	92	122	153	183	183	
Nozzle	Spray height (m.)	0.6	1	1.3	1.6	1.9	2.2	2.5	
NWS110C104	LPM	28.0	36.0	40.0	47.0	49.0	53.0	59.0	
	Head (m.)	3.3	5.1	6.9	9.2	10.1	11.3	14.2	
	Spread (cm.)	61	92	92	122	122	138	138	
Nozzle	Spray height (m.)	Plume	1	1.4	1.9	2.3	2.8	3.4	3.7
		Ring	0.5	0.6	0.8	1.1	1.3	1.6	1.9
NWS110C108	LPM	32.0	36.0	40.0	47.0	51.0	55.0	57.0	
	Head (m.)	4.2	5.7	7.1	8.9	10.1	13.2	14.4	
	Spread (cm.)	61	61	77	92	122	153	183	
Nozzle	Spray height (m.)	1	1.6	2.2	3.1	4	4.6		
NWS100A122	LPM	28.0	36.0	40.0	49.0	57.0	60.0		
	Head (m.)	3.6	5.4	6.9	10.1	13.2	15.4		
	Spread (cm.)	46	61	61	61	92	92		

Not all LEDs are created equally! Crystal Fountains LED products produce a high intensity light and deliver perfect optical performance. Also, see Crystal Fountains power/data and controller products to create a complete LED system.



Playdeck ChoreoSwitch® – How to Order



How to Order - Slab Hanger Version

Choose choreoswitch

Lighting	Style	Lamp	Part No.
None	Round Top	None	SWS115
	Square Top	None	SWS125
White LED	Round Top	Spot	LED180
	Square Top	Spot	LED181
RGB LED	Round Top	Spot	LED182
	Square Top	Spot	LED183

Choose cable

Cable For...	Cable Length	Part No.
No Light	3 m.	EL CORD70
	6 m.	EL CORD71
White LED	3 m.	ELCORD180M03
	6 m.	ELCORD180M06
RGB LED	3 m.	ELCORD182M03
	9 m.	ELCORD182M06

Choose nozzle

Effect	Part No.
Column	NWS110C115
Angled Ring	NWS110C104
Crown	NWS110C108
Clear Stream	NWS110A122

Choose additional options

Options	Part No.
Flood Optical Lens	LED160C006F

How to Order - Niche Version

Choose ChoreoSwitch

Lighting	Style	Lamp	Part No.
None	Round Top	None	SWS132
	Square Top	None	SWS138
White LED	Round Top	Spot	LED184
	Square Top	Spot	LED185
RGB LED	Round Top	Spot	LED186
	Square Top	Spot	LED187

Choose Nozzle

Effect	Part No.
Column	NWS110C115
Angled Ring	NWS110C104
Crown	NWS110C108
Clear Stream	NWS110A122

Choose additional options

Options	Part No.
Flood Optical Lens	LED160C006F
Vandal Resistant Driver Kit	FA0342

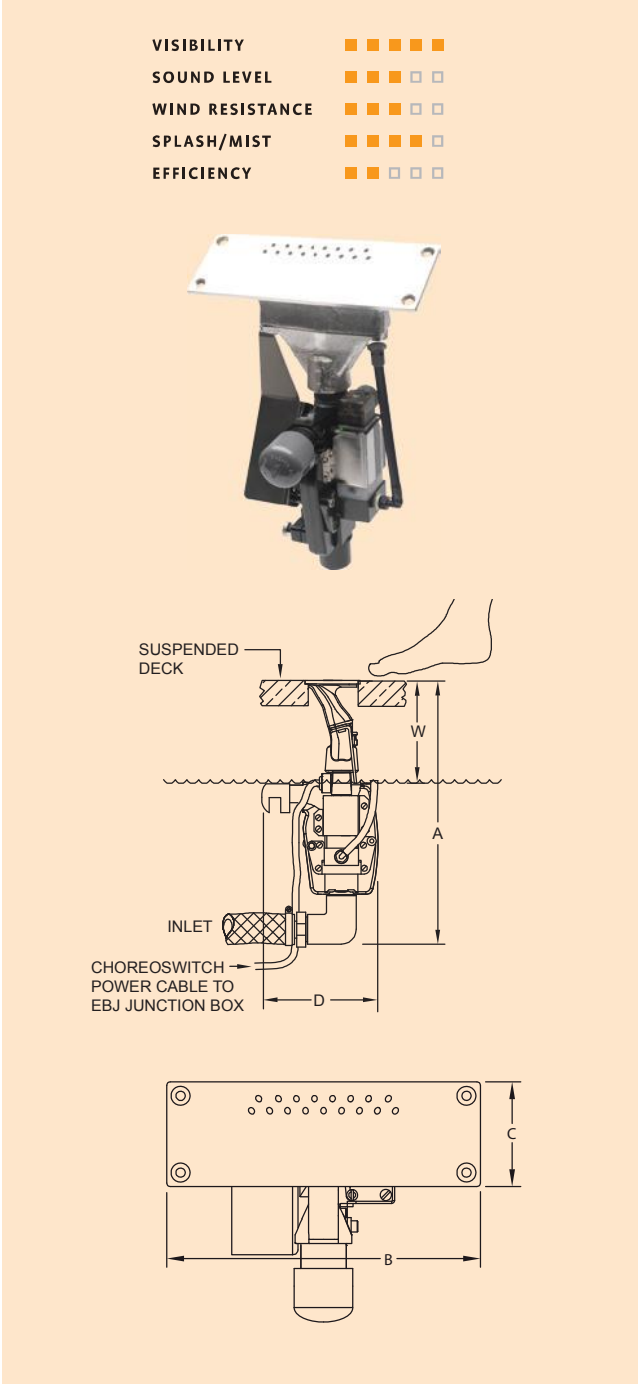
Example of How To Order

1	ChoreoSwitch for Deck - White LED with Square Top Niche	LED185
1	3 m. White LED Cable	ELCORD180M03
1	Crown Nozzle	NWS110C108
6	Flood Optical Lens	LED160C006F
1	Vandal Resistant Driver Kit	FA0342

SWT Series – Playdeck ChoreoSwitch® Finger Jet Version

Originally developed for the cruise ship "Oasis of the Seas" Aqua Theatre, this unique Finger Jet produces a fine spray of 17 "streams" of water from the deck. This 12VDC jet can be sequenced in a pulsing nature or streams can be "animated" using a Variable Frequency Drive. Perfect for playdecks* or other deck-mounted fountains. Comes with easy clean debris screen. Also available in niched version. Made of 316 stainless steel. **Not Water level dependent.**

*For interactive play, do not exceed 6 m per second.



DIMENSIONS

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)	Suction Strainer Openings max. mm.
SWT100	1"	360	170	225	75	2

PERFORMANCE

Throw (m.)	0.6	1.2	1.8	2.4	3
LPM	40.0	50.0	62.0	75.0	89.0
Head (m.)	5.3	11.0	15.9	22.4	34.0
Height (m.)	0.3	0.5	0.8	1.1	1.6
Spread (m.)	1.2	2.1	2.7	4.3	5.2

NPN Series – Pop Nozzle Jet

The NPN Pop nozzle can be PLC controlled and is designed for playful interactive displays. A 13mm ball or slug of water appears at the top of the water surface while each nozzle requires only 9 LPM. Water ball shape and height can be adjusted using the activation timing and inlet water pressure. Suitable for underwater and drydeck applications*, the Pop Nozzle produces a gently mesmerizing effect with low LPM requirements. Available in 12 and 24 VAC and either Wall or Floor Mounting. Not water level dependent.



The NPN Pop Nozzle is also available with custom pipe or niche mounting. Contact Crystal Fountains for more details.

*For interactive play, do not exceed 6 m per second.

DIMENSIONS												PERFORMANCE			
Part No.	Water Inlet (b.s.p.t.)	Voltage	Watts Hold	Watts in Rush	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Valve	Filtration Required	Mounting	Spray height (m.)	0.3	0.6	1
NPN025	¼"	12 VAC	11 VA	20 VA	204	242	51	4 to 10	2 Way	500 Micron (max.)	Wall	LPM	8.0	8.0	8.0
												Head (m.)	11.3	21.1	28.1
												Spread (m.)	1.3	1.6	1.9
NPN026	¼"	24 VAC	11 VA	20 VA	204	242	51	4 to 10	2 Way	500 Micron (max.)	Wall	LPM	8.0	8.0	8.0
												Head (m.)	11.3	21.1	28.1
												Spread (m.)	1.3	1.6	1.9
NPN029	¼"	12 VAC	11 VA	20 VA	204	127	105	4 to 10	3 Way	500 Micron (max.)	Floor	LPM	8.0	8.0	8.0
												Head (m.)	11.3	21.1	28.1
												Spread (m.)	1.3	1.6	1.9
NPN030	¼"	24 VAC	11 VA	20 VA	204	127	105	4 to 10	3 Way	500 Micron (max.)	Floor	LPM	8.0	8.0	8.0
												Head (m.)	11.3	21.1	28.1
												Spread (m.)	1.3	1.6	1.9

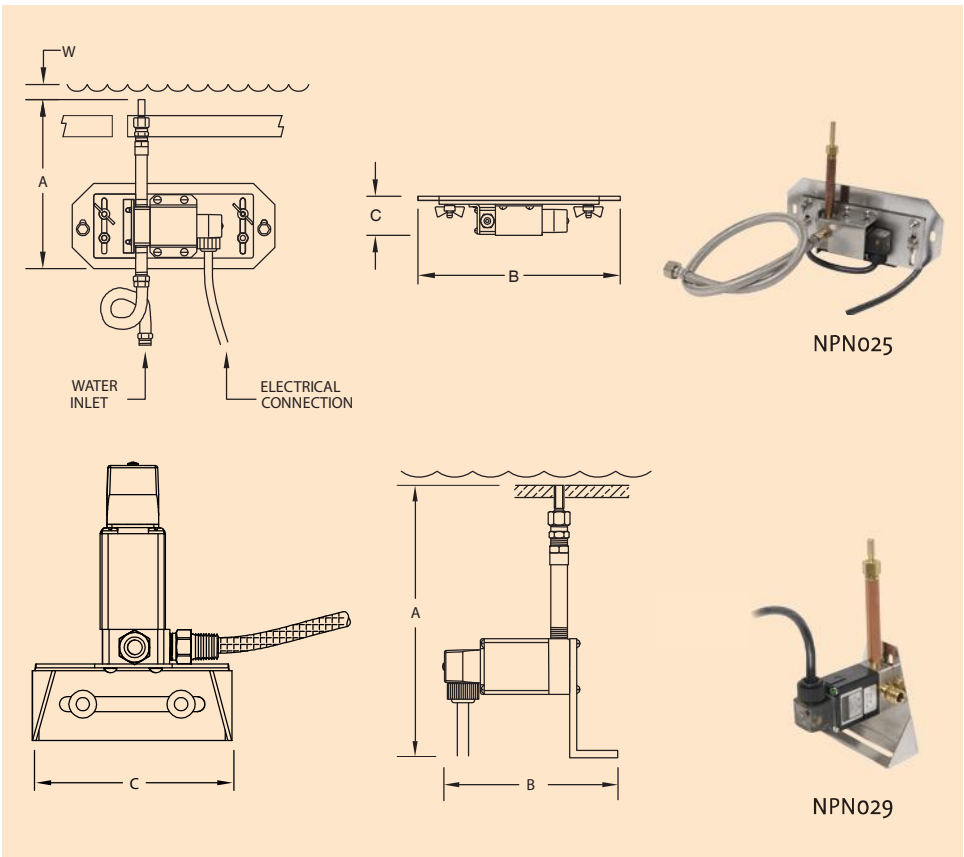
- VISIBILITY

SOUND LEVEL

WIND RESISTANCE

SPLASH/MIST

EFFICIENCY
-



LAMINARS AND LEAPERS INTRO

Crystal Fountains has been at the forefront of innovative and entertaining water effects for decades. The Laminar and Leaper are two classic sequencing water effects that are always crowd pleasers:

Laminars – create a glass-like rod of water that is perfectly clear and still. When lit from the base unit, the water appears to glow when lit with built-in RGB LED light. Also available with a “Starburst” effect creating traveling “balls” of light.

Leapers – the same glass-like rod of water that’s programmed to “jump”. Makes for playful watching when jumping from one location to another. Can be lit with fiberoptics or with an internal RBG LED light.

132 LAMINARS AND LEAPERS INTRO
134 Electric Leaper Series
137 WMV Series – Starburst Laminar



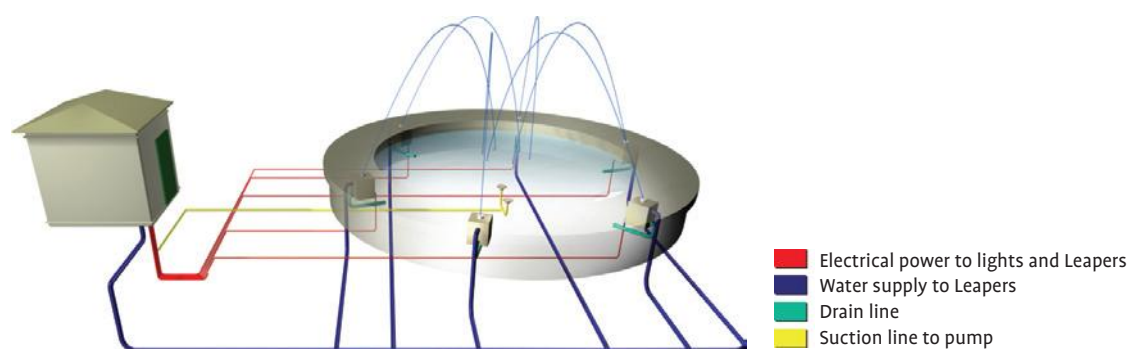
Leaper/Laminar fountains

provide endless entertainment and fascination.

Typical Installation for Fountain

- Nozzles are placed in fountain wall
- Water is pumped to nozzles via pumping station*
- Controllers and sequencing devices make the fountain more entertaining for all audiences.

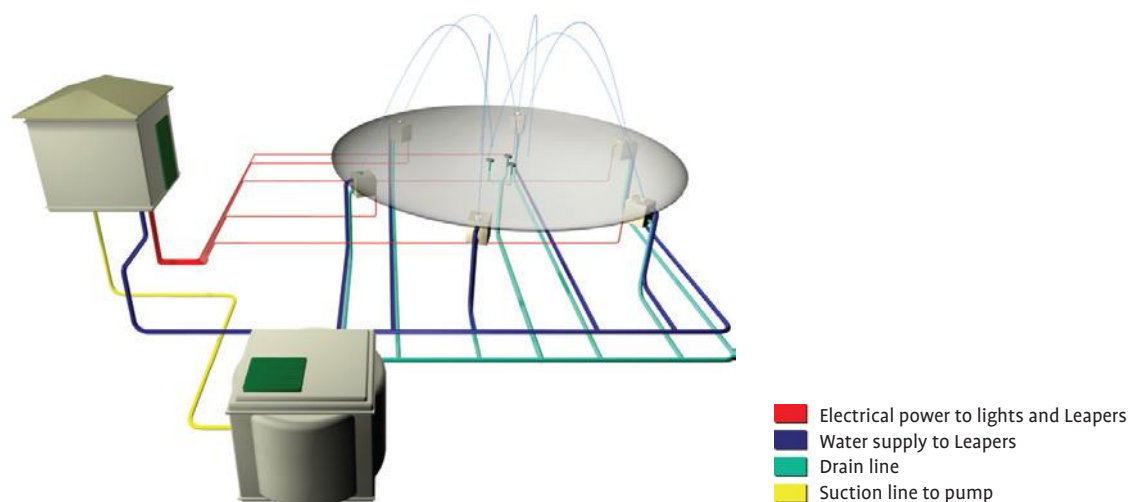
*NOTE: Water quality needs to be monitored for optimum nozzle performance.



Typical Installation for Playdeck

- Nozzles are niche-mounted in a deck surround
- Water drains through the surround into a holding tank
- Water then pumped to nozzles via a pumping station*
- Controllers and sequencing devices make the play experience much more fun.

*NOTE: Water quality needs to be strictly monitored for public safety.



Electric Leaper Series with Fiberoptic or LED Lighting

The Crystal Fountains Electric Leaper produces a 13mm diameter glass-like water rod that creates jumping and leaping effects. Available with three different lighting options – RGB LED, unlit, or with Fiberoptics

Versatile

- Multiple Leapers can produce a wide variety of patterns.
- You can produce multiple heights using a variable speed drive pump.
- The unit can be installed out of water or submerged to maximum water level shown.
- Available with niche or stand alone.

Easy Installation

- Has up to 50° installation adjustment built in
- 3 cable lengths to choose from

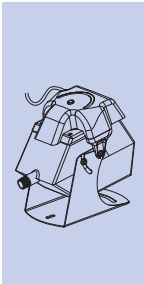
Programmable

- Program water speeds and lengths to create visual interest and entertainment.*

Lighting

- Achieve dynamic color cost-effectively with fiberoptic connections or achieve greater programming versatility with LED lighting that can be individually programmed for unlimited lighting shows.

Which Leaper Do I Need?

1.Choose Your Lighting Effect		No Light or Fiberoptic Lighting		RGB LED Lighting		VISIBILITY	■ ■ □ □ □
2.Choose Your Mounting Type		Free Standing Leaper	Niched Leaper	Free Standing Leaper	Niched Leaper	SOUND LEVEL	■ ■ □ □ □
3.Get Part Number						WIND RESISTANCE	■ □ □ □ □
						SPLASH/MIST	■ □ □ □ □
						EFFICIENCY	■ ■ □ □ □
		SWV100	SWV102	LED140	LED141		

*Contact Crystal Fountains for detailed specification, installation and operation details.



Made of high-density polyethylene, polycarbonate and stainless steel with 26mm male N.P.T. Solenoid activated via 12VDC.

Water level independent. CE marking. IP68, submersible rated.

Not all LEDs are created equally! Crystal Fountains LED products produce a high intensity light and deliver perfect optical performance. Also, see Crystal Fountains power/data and controller products to create a complete LED system.

*For interactive play do not exceed 6 meters per second.

**A filtered water supply is required (cartridge filter or 50 micron max.)

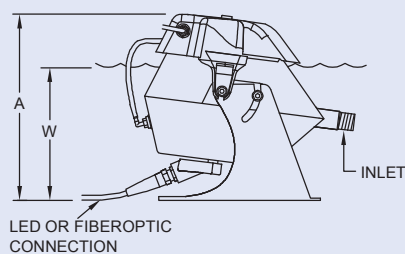
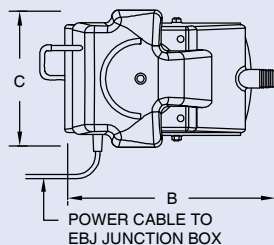
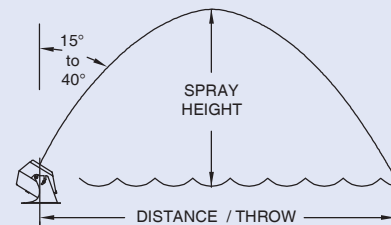
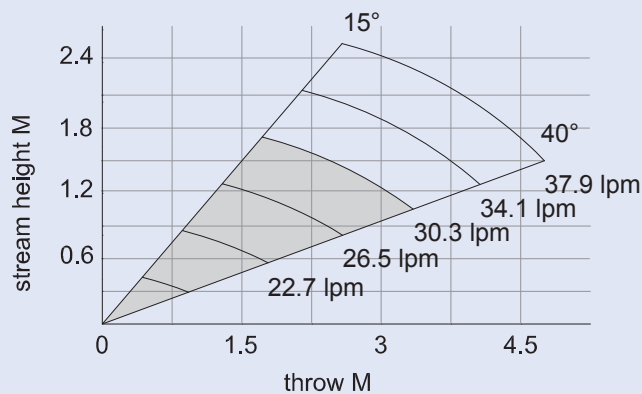
Electric Leaper Series with Fiberoptic or LED Lighting

DIMENSIONS

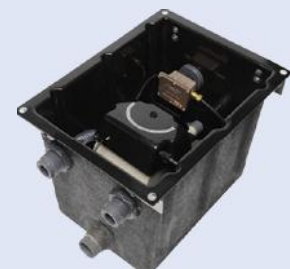
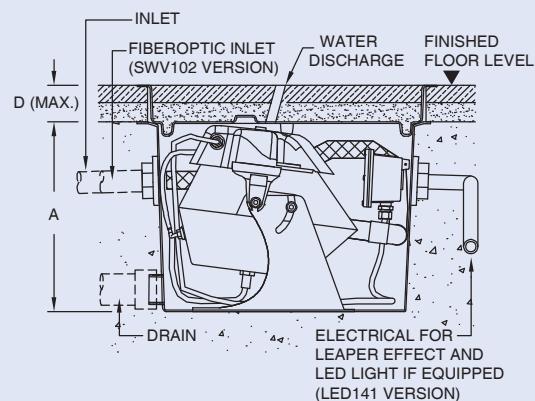
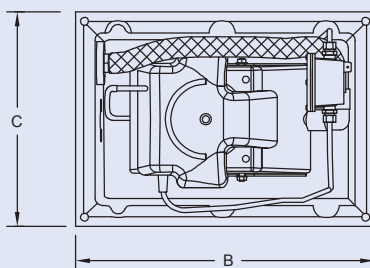
Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Installation	Filtration Required
SWV100 / LED140	1"	343	356	242	216	Residential	50 micron max.
						Commercial	5 micron max.

DIMENSIONS

Part No.	Inlet (b.s.p.t.)	Drain Connection (mm)	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (max) (mm)	Installation	Filtration Required
SWV102 / LED141	1"	51	420	578	432	77	Residential	50 micron max.
							Commercial	5 micron max.



Freestanding Leaper



Niche Leaper

Electric Leaper Series with Fiberoptic or LED Lighting

How to Order

Choose Your No-Light or Fiberoptic Leaper

CHOOSE MOUNTING

Mounting	Part No.
Stand	SWV100
Niche	SWV102

CHOOSE CABLE

Cable for...	Cable Length	Part No.
SWV100 - No Light (Power Cable only)	3 m.	EL CORD100A105
	6 m.	EL CORD100A106
	18 m.	EL CORD100A107
SWV100 - Fiberoptic (Power Cable)	3 m.	EL CORD100A105
	6 m.	EL CORD100A106
	18 m.	EL CORD100A107
SWV100 - Fiberoptic (Fiberoptic Cable)	Fiberoptic Cable 100 Strand (per m.)	EL CORD 8
SWV102	Power Cable and LED Cable is Included with Leaper	

CHOOSE ADDITIONAL OPTIONS

Options	Part No.
Fiberoptic Illuminator (Fiberoptic version only)	CL1505

*Note: To turn SWV100 or SWV102 into Fiberoptic version a Fiberoptic Illuminator and Fiberoptic Cable must be purchased.

Choose Your RGB LED Leaper

CHOOSE MOUNTING

Mounting	Part No.
Stand	LED140
Niche	LED141

CHOOSE CABLE

Cable For...	Cable Length	Part No.
LED140 (Power Cable and LED Cable Kit)	3 m.	EL CORD206
	6 m.	EL CORD208
	18 m.	EL CORD210
LED141	Power Cable and LED Cable is Included with Leaper	

EXAMPLE OF HOW TO ORDER

Quantity	Product	Part No.
1	LED Electric Leaper with Stand	LED140
1	3 m. Cable	EL CORD206



WMV Series – Starburst Laminar

The Crystal Fountains Starburst Laminar is a high-tech illusion. The water is so well controlled it creates a 13mm continuous glass-like rod of water that hits the water virtually sound and splash-free. The Starburst Laminar comes with the Starburst Kit creating a traveling ‘starburst’ light that appears from opening to end of the water stream when connected to a fiberoptic or LED source. This, combined with the built-in light, produces breathtaking light shows with fast programming and an unlimited color palette including white.

Versatile

- Multiple Laminars can produce a wide variety of patterns.
- You can produce multiple heights using a variable speed drive pump.
- The unit can be installed out of water or submerged to maximum water level shown.
- Can be flush mounted in a deck with optional niche.

Easy Installation

- Has up to 50° installation adjustment built in
- 3 cable lengths to choose from (LED model only)

Programmable

- Each LED stream can be individually programmed for unlimited lighting shows

Made of high density polyethylene, ABS, stainless steel and brass with 26mm male n.p.t. LED light 12VDC. Available with an optional niche, lid and animation panel to control lighting. **Water level independent.**

Not all LEDs are created equally! Crystal Fountains LED products produce a high intensity light and deliver perfect optical performance. Also, see Crystal Fountains power/data and controller products to create a complete LED system.

*For interactive play do not exceed 6 meters per second.

**A filtered water supply is required (cartridge filter or 50 micron max.)

**Contact Crystal Fountains for detailed specification, installation and operation details.*

VISIBILITY	■ ■ □ □ □
SOUND LEVEL	■ ■ □ □ □
WIND RESISTANCE	■ □ □ □ □
SPLASH/MIST	■ ■ □ □ □
EFFICIENCY	■ ■ □ □ □



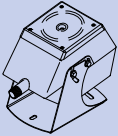
This product (WMV107 only) is available under our Quick Ship program! See page 15 for more details.


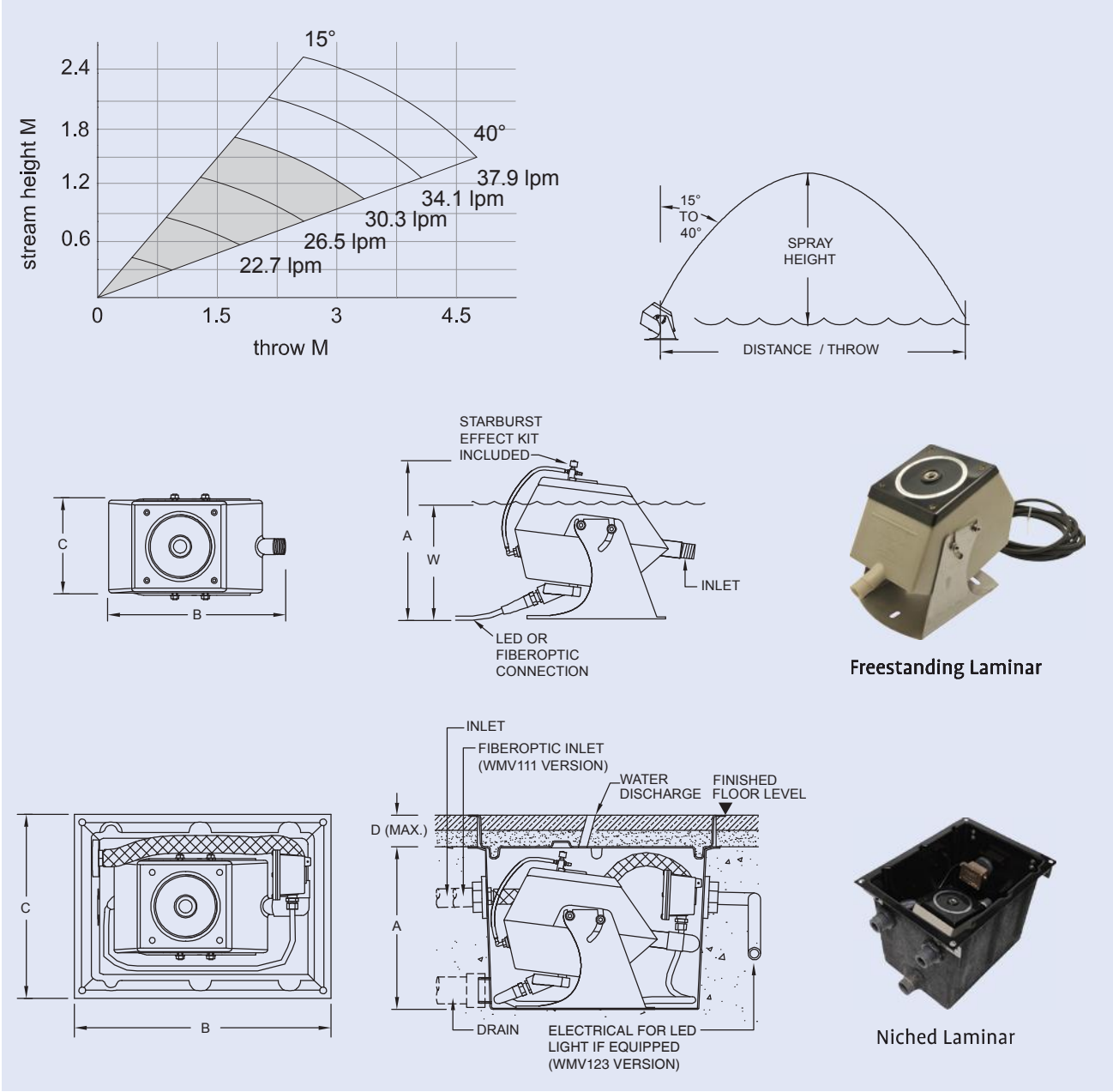


WMV Series – Starburst Laminar

Which Laminar Do I Need?

- 1.Choose Your Lighting Effect
- 2.Choose Your Mounting Type
- 3.Get Part Number

	No Light or Fiberoptic Lighting		RGB LED Lighting	
	Free Standing Laminar	Niched Laminar	Free Standing Laminar	Niched Laminar
	WMV107	WMV111	WMV117	WMV123

WMV Series – Starburst Laminar

DIMENSIONS

Part No.	Inlet (b.s.p.t.)	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)	Installation	Filtration Required
WMV107 / WMV117	1"	280	356	204	216	Residential	50 micron max.
						Commercial	5 micron max.

DIMENSIONS

Part No.	Inlet (b.s.p.t.)	Drain Connection (mm)	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (max) (mm)	Installation	Filtration Required
WMV111 / WMV123	1"	50	420	578	432	77	Residential	50 micron max.
							Commercial	5 micron max.

How to Order

Choose Your No-Light or Fiberoptic Laminar

Choose Mounting

Mounting	Part No.
Stand	WMV107
Niche	WMV111

CHOOSE CABLE

Cable For...	Cable Length	Part No.
WMV107 / WMV111 - No Light	No cable required for no light version	N/A
WMV107 / WMV111 - Fiberoptic	Fiberoptic Cable 100 Strand (per m.)	EL CORD 8

CHOOSE ADDITIONAL OPTIONS

Options	Part No.
Fiberoptic Illuminator (WMV107 and WMV111 only)	CL1505

* Note: To turn WMV107 or WMV111 into fiberoptic version a fiberoptic illuminator must be purchased with cable selection

* Note: Power cable included in all WMV models

Choose Your RGB LED Laminar

CHOOSE MOUNTING

Mounting	Part No.
Stand	WMV117
Niche	WMV123

CHOOSE CABLE

Cable For...	Cable Length	Part No.
WMV117	3 m.	EL CORD34
	6 m.	EL CORD36
	18 m.	EL CORD38
WMV123	Power Cable and LED Cable is Included with Leaper	

EXAMPLE OF HOW TO ORDER

Quantity	Product	Part No.
1	RGB LED Laminar with Niche	WMV117
1	3 m. Cable	EL CORD34