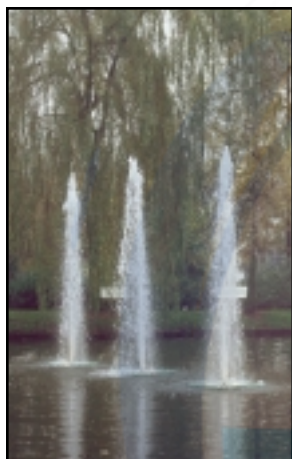
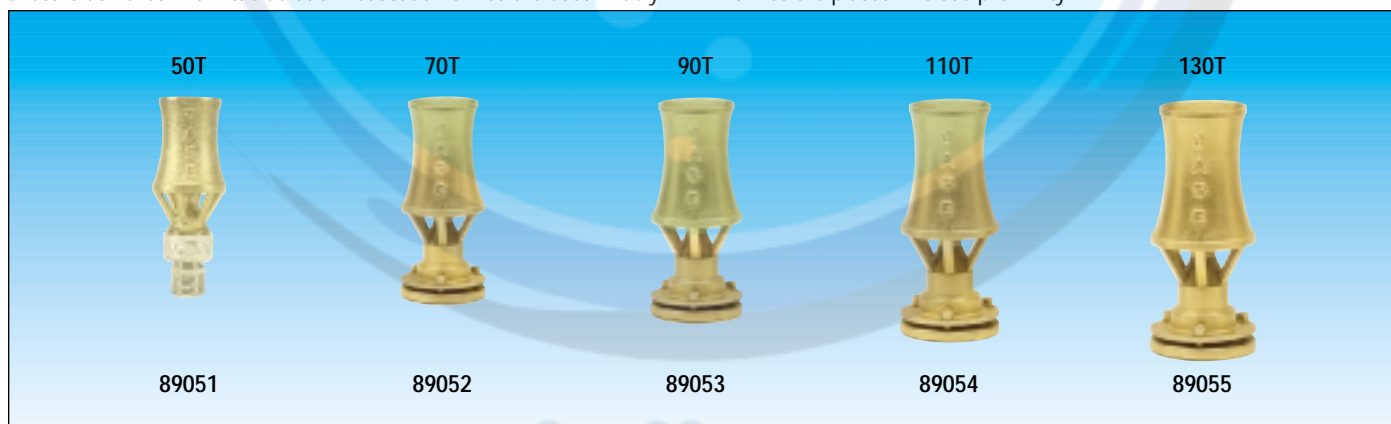


Cascade Nozzle



The Cascade Nozzle is the single most popular effect used in commercial and architectural fountains through modern times. They can be used in a wide variety of ways to achieve spectacular effects. Whatever your plan or imagination calls for, the Cascade can probably fill the bill. A water-entraining venturi type nozzle, the Cascade augments its spout effect by adding water volume from the pool. In doing so, a very heavy, powerful effect is achieved with little aeration. Cascade nozzles are used widely in

architectural fountains due to their high visibility and good wind resistance, exhibiting a very "hard" visual and audible impact suitable for large pools and outdoor applications where noise-masking water effects are desired. The Cascade is water level dependent, and requires a controlled water level. In addition to single and grouped nozzle installations, opaque water walls are easily achieved when several nozzles are placed in close proximity.



Technical description:

- All Cascade nozzles are water level dependent venturi types. The surrounding pool water is drawn by venturi effect through the bottom of the nozzle.
- These nozzles can be completely submerged in water, but maximum efficiency is achieved if the water level is held to the dimensions given.
- If placed in fountains of more than one water level, check valves should be installed inline with the nozzle. (The discharge orifice of the Cascade nozzle is actually under water, and if installed in an upper pool of multi-level fountains, can cause the water of the upper level to drain back through the display pump to the lower level.)

- This type of nozzle can set up a resonant wave action in certain pools. If an undesired wave action occurs, it can be eliminated by adding a copper surge tube around the nozzle location. This is a copper tube, about 6" in diameter, mounted from water level to about 1" above the pool floor.
- All Cascade nozzles are NPT thread.

Visibility					
Noise Level					
Splash					
Wind Stability					
Energy Efficiency					



Cascade Nozzle

Display Height	50 T				70 T				90 T				110 T				130 T				Display Height
Feet	GPM	TDH	LPM	BAR	GPM	TDH	LPM	BAR	GPM	TDH	LPM	BAR	GPM	TDH	LPM	BAR	GPM	TDH	LPM	BAR	Meters
0'-10"	7.6	6.0	28.7	0.18																	0.25
1'-8"	9.1	8.7	34.5	0.26	21.0	9.0	79.7	0.27													0.50
2'-6"	10.4	11.0	39.5	0.33	23.4	11.0	88.8	0.33	37.2	9.0	141.4	0.27									0.75
3'-3"	11.6	13.7	43.9	0.41	25.5	13.3	97.0	0.40	41.3	11.0	157.1	0.33	62.2	12.0	236.2	0.36	99.9	12.0	379.6	0.36	1.00
4'-11"	13.6	19.0	51.5	0.57	29.4	17.7	111.7	0.53	48.5	15.3	184.4	0.46	73.6	16.0	279.8	0.48	115.1	16.0	437.3	0.48	1.50
6'-7"	15.3	24.3	58.2	0.73	32.8	22.0	124.7	0.66	54.8	19.3	208.2	0.58	83.5	20.0	317.4	0.60	128.5	20.0	488.3	0.60	2.00
8'-2"	18.3	34.7	69.7	1.04	35.9	26.3	136.4	0.79	60.4	23.7	229.6	0.71	92.4	24.0	351.2	0.72	140.7	24.0	534.6	0.72	2.50
9'-10"	19.7	40.0	74.8	1.20	38.8	30.7	147.3	0.92	65.6	27.7	249.2	0.83	100.5	28.0	382.0	0.84	151.9	28.0	577.2	0.84	3.00
13'-1"	20.9	45.4	79.6	1.36	43.9	39.4	166.9	1.18	74.8	36.4	284.4	1.09	115.1	36.0	437.2	1.08	172.2	36.0	654.2	1.08	4.00
16'-5"	23.3	56.0	88.4	1.68	48.6	48.0	184.5	1.44	83.1	44.7	315.8	1.34	128.0	44.7	486.4	1.34	190.4	44.7	723.4	1.34	5.00
19'-8"					52.8	57.0	200.6	1.71	90.6	53.0	344.4	1.59	139.8	51.7	531.1	1.55	207.0	51.7	786.6	1.55	6.00
23'-0"					56.7	65.7	215.5	1.97	97.6	61.7	370.9	1.85	150.7	59.7	572.5	1.79	222.4	59.7	845.3	1.79	7.00
26'-3"									104.1	70.0	395.7	2.10	160.8	68.0	611.2	2.04	236.9	68.0	900.3	2.04	8.00
32'-10"									116.2	87.0	441.4	2.61	179.6	84.0	682.3	2.52	263.6	84.0	1001.7	2.52	10.00
39'-4"													196.6	100.4	747.1	3.01	288.0	100.4	1094.3	3.01	12.00
45'-11"													212.3	116.7	806.9	3.50	310.6	116.7	1180.2	3.50	14.00
52'-6"																	331.7	133.1	1260.6	3.99	16.00
59'-1"																	351.7	149.7	1336.6	4.49	18.00
65'-7"																	370.8	166.4	1408.9	4.99	20.00
Mat'l	Brass				Brass				Brass				Brass				Brass				Mat'l
Weight	1.00 Kg		2.20 Lbs		2.40 Kg		5.28 Lbs		3.60 Kg		7.92 Lbs		7.00 Kg		15.40 Lbs		11.00 Kg		24.20 Lbs		Weight
Article #	670-550				670-551				671-550				671-551				671-552				Article #
ID #	50911				50912				50915				50916				50917				ID #
Part #	89051				89052				89053				89054				89055				Part #

