

Deckjet Kit:

The directionally adjustable Deckjet Kit nozzles comes in a variety of options to meet the wide range of design needs for applications that require flush deck level mounting such as swimming pool decks and children's public water play areas.

Specification

Construction shall be machined cast bronze and/or brass. Face plate shall be removable for nozzle alignment or nozzle cleaning by using a security key. Water inlet connection shall be 1 inch N.P.T. with female threads to minimize water turbulence. Includes copper ground lug with stainless steel screw. A winter cover shall be available for proper winterization of the water system. Comes complete with 3 different nozzle configurations as shown below.



Deckjet Kit - CLEAR STREAM
JET nozzle



Deckjet Kit - TRISTREAM JET
nozzle



Deckjet Kit - CROWN JET 30°
SPRAY ANGLE nozzle

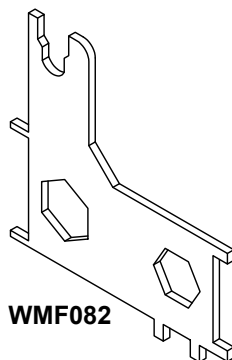
Options

WMF081 - winter cover.

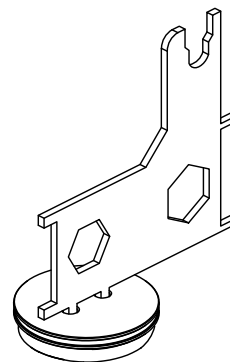
WMF082 - security key (face plate removal).



WMF081




WMF082



WMF081

WMF082

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	www.crystalfountains.com Crystal <i>where ideas flow™</i> TEL. 1-905.660.6674 FAX. 1-905.660.6916	1" Deckjet Kit	SERIES WDK100	REV. 0 NOV 2016

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Function

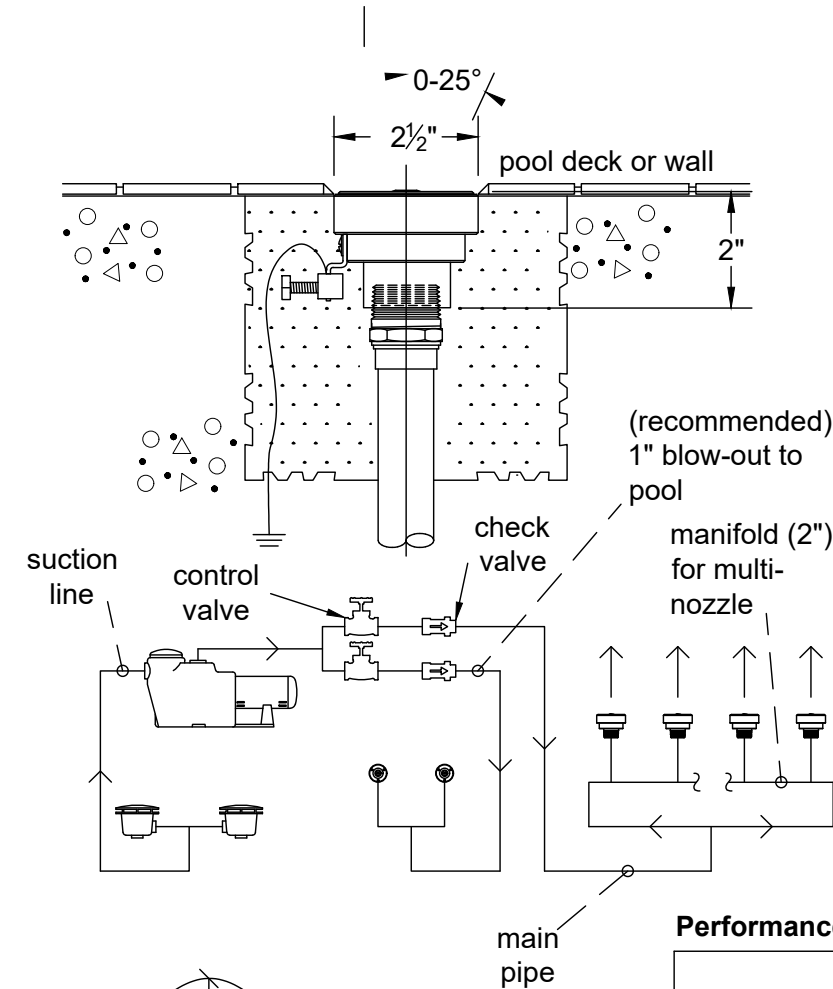
The Deckjet Kit - CLEAR STREAM JET nozzle gentle slender column of water produced by the $\frac{3}{8}$ inch diameter opening is recommended as a small to medium water feature nozzle.

Not water level dependent.



Notes:

1. Requires fine screening at pump for optimum effect (suction strainer openings 0.060")
2. For interactive play do not exceed 20 feet per second = 6.9 US gpm



Quick Pipe and Pump Sizing

distance from nozzle to pump 100' max.

no. of jets	main pipe dia.	suction pipe dia.	pump		
			gpm	head	hp
1	1"	1-1/2"	8	26'	1/2
2	1"	1-1/2"	16	49'	1/2
3	1-1/2"	1-1/2"	24	33'	1/2
4	1-1/2"	2"	32	45'	3/4
5	2"	2"	40	30'	3/4
6	2"	2"	48	37'	3/4
7	2"	2"	56	45'	1
8	2"	2"	64	55'	1-1/2
9	2"	2"	72	64'	2

Performance (at 25°)

distance or throw		1'	2'	3'	4'	5'	6'	7'	8'	9'	10'
Deck Mount	US gpm	3	3.5	4.1	5	5.5	6	7	7.2	7.5	8
	head	1.5'	3'	3'	4'	5'	6'	9'	9.5'	10'	12'
	spray height	0.6'	1.3'	2'	2.6'	3.4'	4'	4.5'	5.2'	6'	6.5'



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1" Deckjet Kit - CLEAR STREAM JET nozzle

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Function

The Deckjet Kit - TRISTREAM JET nozzle produces 3 gentle slender streams of water that shoot out from the 3/16" holes on the directional ball.

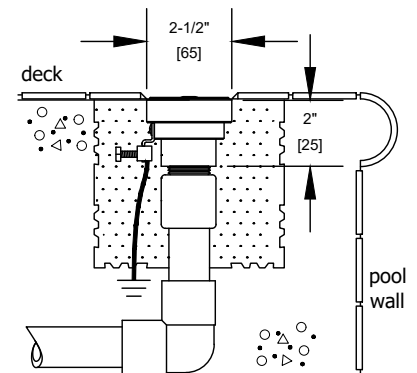
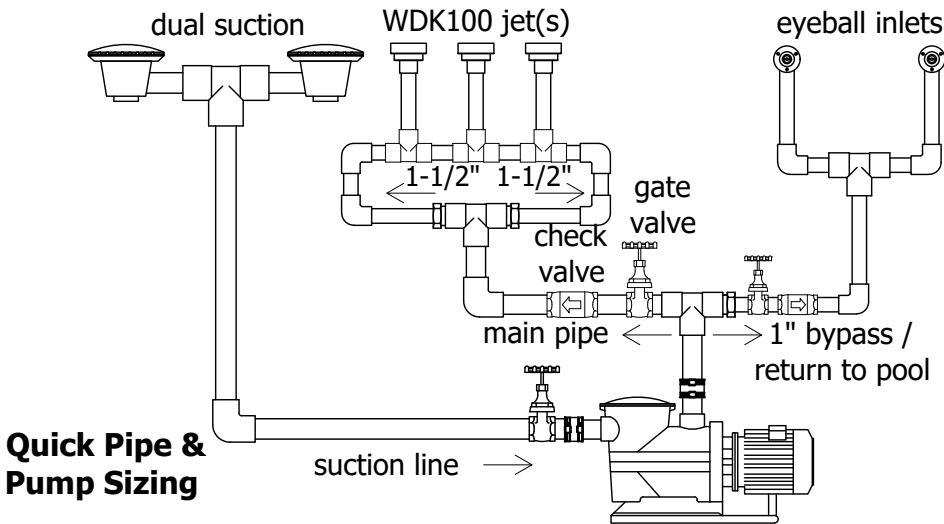


Notes:

1. Requires fine screening at pump for optimum effect (suction strainer openings 0.060").
2. For interactive play do not exceed 20 feet per second = 5.2 US gpm.

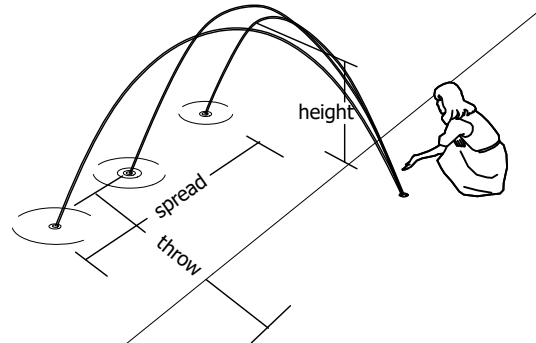
Performance

throw	2ft (0.6m)	4ft (1.2m)	5ft (1.5m)	7ft (2.1m)	8ft (2.4m)	10ft (3m)	12ft (3.7m)
height, ft (m)	1 (0.3)	2.3 (0.7)	3 (0.9)	4 (1.2)	5 (1.5)	5.5 (1.7)	6 (1.8)
spread, ft (m)	1 (0.3)	2.2 (0.7)	2.5 (0.8)	3.5 (1.1)	4 (1.2)	6.5 (2)	7 (2.1)
US gpm (lpm)	2.4 (9.1)	3.3 (12.5)	4.2 (15.9)	4.8 (18.2)	5.5 (20.8)	6 (22.7)	6.2 (23.5)
ft. head (mwc)	10 (3)	10 (3)	10 (3)	10 (3)	10 (3)	10 (3)	10 (3)



Refer to process flow diagram on right and table below.

no. of jets	main pipe dia.	suction pipe dia.	pump requirement		
			US gpm (lpm)	ft. head (mwc)	hp
1	1-1/2"	2"	5 (19)	13.6 (4.2)	1/2
2	1-1/2"	2"	10 (38)	14.6 (4.5)	1/2
3	2"	2"	15 (55)	14.3 (4.4)	1/2
4	2"	2"	20 (73)	14.7 (4.5)	1/2



Quick pipe and pump sizing is based on 50ft. of main pipe, 50ft. of suction line and throw limited to 7ft. max.

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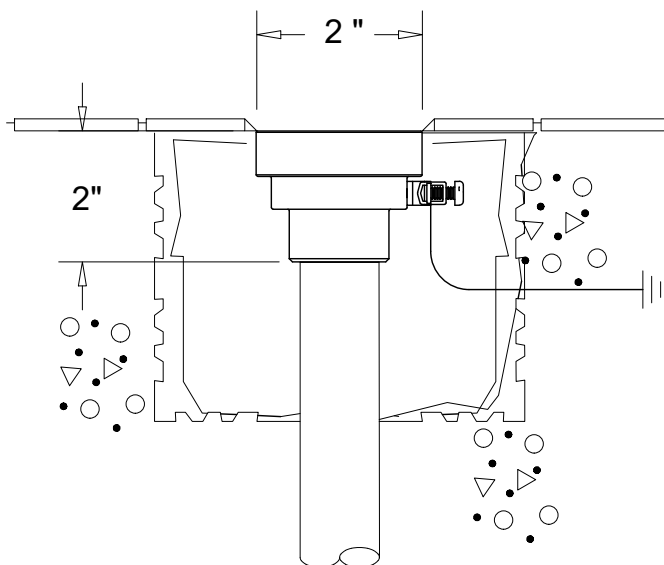
Function

Deckjet Kit - CROWN JET 30° SPRAY ANGLE nozzle is designed to be flush mounted in a deck. The Crown Jet can be used as a decorative spray feature for swimming pools and can aid in the cooling of the pool water in a hot climate.

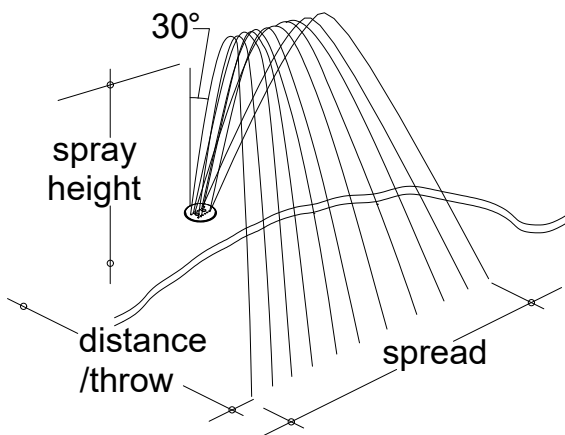


Notes:

1. Requires fine screening at pump for optimum effect(suction strainer openings 0.040").
2. For interactive play water velocity should not exceed 20 feet per second = 7.6 US gpm.



Deck Mount Application



Performance

Dist./Throw	2'	3'	4'	6'
US gpm	5	6.5	7.7	9.9
head	3'	3.9'	4.6'	6.5'
spread	2.7'	3.8'	4.4'	6.7'
spray height	1.2'	1.7'	2'	2.8'



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SPRAY ANGLE nozzle**

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