



**8" NOZZLE DIAMETER**

SIZE																																									
DJ-1-8" (1 NOZZLE)	CFM	160				220				280				330				380				410				440				460				490				530			
	Ps	0.04				0.07				0.12				0.16				0.22				0.25				0.29				0.32				0.36				0.42			
	NC	<20				22				30				35				40				42				45				46				48				51			
	Throw - Jet	10	14	29	13	20	36	17	25	40	20	29	44	23	33	47	24	34	49	26	36	50	27	36	51	29	38	53	31	39	55										
	Throw - Diff	5	8	15	7	10	19	9	13	21	10	16	23	12	18	25	13	18	26	14	19	27	14	19	27	15	20	28	17	21	29										
DJ-2-8" (2 NOZZLES)	CFM	310				440				550				650				750				830				880				930				980				1050			
	Ps	0.04				0.07				0.11				0.16				0.21				0.26				0.29				0.32				0.36				0.41			
	NC	<20				25				32				37				41				44				45				47				48				50			
	Throw - Jet	13	20	39	18	28	50	23	35	56	27	41	61	32	46	66	35	49	69	37	50	71	39	52	73	41	53	75	44	55	78										
	Throw - Diff	7	10	21	10	15	27	12	18	30	14	22	32	17	25	35	18	26	37	20	27	38	21	27	39	22	28	40	23	29	41										
DJ-3-8" (3 NOZZLE)	CFM	470				660				830				980				1130				1240				1310				1390				1460				1580			
	Ps	0.03				0.07				0.11				0.15				0.20				0.24				0.27				0.31				0.34				0.39			
	NC	20				29				35				39				43				45				46				48				49				51			
	Throw - Jet	16	24	48	23	34	62	28	43	69	34	50	75	39	57	81	43	60	85	45	61	87	48	63	89	50	65	92	54	67	95										
	Throw - Diff	9	13	26	12	18	33	15	23	37	18	27	40	21	30	43	23	32	45	24	33	46	25	33	47	26	34	49	29	36	50										
DJ-4-8" (4 NOZZLE)	CFM	630				880				1100				1300				1500				1650				1750				1850				1950				2100			
	Ps	0.04				0.07				0.11				0.16				0.21				0.25				0.28				0.32				0.35				0.41			
	NC	25				32				38				41				45				47				48				50				51				53			
	Throw - Jet	19	28	56	26	39	71	33	49	80	39	58	87	45	66	93	49	69	97	52	71	100	55	73	103	58	75	106	62	78	110										
	Throw - Diff	10	15	30	14	21	38	17	26	42	20	31	46	24	35	49	26	36	52	28	38	53	29	39	55	31	40	56	33	41	58										

**10" NOZZLE DIAMETER**

SIZE																																									
DJ-1-10" (1 NOZZLE)	CFM	300				410				520				590				810				930				1000				1070				1150				1260			
	Ps	0.03				0.06				0.10				0.13				0.24				0.32				0.37				0.42				0.49				0.58			
	NC	<20				24				30				34				42				45				47				49				51				53			
	Throw - Jet	12	19	37	17	26	51	22	32	65	25	37	70	34	51	82	39	58	88	42	62	91	44	67	95	48	69	98	52	73	103										
	Throw - Diff	7	10	20	9	13	27	11	17	34	13	19	37	18	27	43	20	30	46	22	33	48	23	35	50	25	36	51	28	38	54										
DJ-2-10" (2 NOZZLES)	CFM	590				810				1040				1180				1630				1850				2000				2150				2290				2520			
	Ps	0.03				0.06				0.10				0.13				0.24				0.31				0.36				0.42				0.47				0.57			
	NC	<20				28				34				37				46				49				51				53				55				57			
	Throw - Jet	17	26	52	24	36	71	31	46	92	35	52	99	48	72	117	54	82	124	59	88	129	63	95	134	67	98	138	74	103	145										
	Throw - Diff	9	14	27	13	19	38	16	24	48	18	27	52	25	38	61	29	43	65	31	46	68	33	50	70	35	51	73	39	54	76										
DJ-3-10" (3 NOZZLE)	CFM	890				1220				1550				1780				2440				2780				3000				3220				3440				3770			
	Ps	0.03				0.06				0.10				0.13				0.24				0.32				0.37				0.42				0.48				0.58			
	NC	<20				27				34				38				46				50				52				54				56				58			
	Throw - Jet	21	32	64	29	44	88	37	56	112	43	64	122	59	88	143	67	100	152	72	108	158	77	116	164	83	120	170	90	125	177										
	Throw - Diff	11	17	34	15	23	46	20	29	59	22	34	64	31	46	75	35	53	80	38	57	83	41	61	86	43	63	89	48	66	93										
DJ-4-10" (4 NOZZLE)	CFM	1180				1630				2070				2370				3260				3700				4000				4290				4590				5030			
	Ps	0.03				0.06				0.10				0.13				0.25				0.32				0.37				0.43				0.49				0.59			
	NC	21				30				36				39				48				51				53				55				57				59			
	Throw - Jet	25	37	74	34	51	102	43	65	129	49	74	141	68	102	165	77	115	176	83	125	183	89	134	189	95	138	196	105	145	205										
	Throw - Diff	13	19	39	18	27	53	23	34	68	26	39	74	36	53	87	40	61	92	44	66	96	47	70	99	50	73	103	55	76	108										

**Test Standard**

- ANSI / ASHRAE standard 70
- Isothermal air used during testing.

**Sound Levels**

- NC is noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10-12 watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands

**Throw**

- The numbers shown are throw distances, in feet, measured along the jet trajectory axis relating to terminal velocities of 150, 100, & 50 fpm, for a free, unbounded jet (no surface effects). Throws are shown for both the Jet air pattern and Diffused air pattern.
- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.

**Spread**

- The spread of air, in feet, is the diameter of the total air mass measured perpendicular to the direction of throw :

$$\text{Diffuser Spread} = \text{Diffuser Throw} \times .40$$

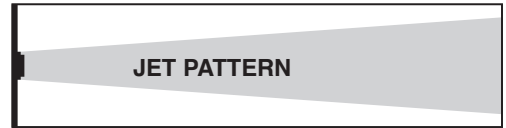
$$\text{Jet Spread} = \text{Jet Throw} \times .25$$

**Pressure**

- Ps represents Static Pressure, inches of water, for a diffused pattern. Jet pattern is table value x .70

**Vk, Jet Velocity**

- Feet per minute (fpm), measured at the discharge of the diffuser



**12" NOZZLE DIAMETER**

SIZE																																									
DJ-1-12" (1 NOZZLE)	CFM	380				530				620				720				860				1010				1250				1390				1580				1780			
	Ps	0.02				0.04				0.06				0.08				0.12				0.16				0.25				0.31				0.40				0.51			
	NC	<20				23				27				30				35				39				44				47				50				53			
	Throw - Jet	13	20	40	18	28	55	22	32	65	25	38	74	30	45	81	35	53	88	44	65	97	48	73	103	55	78	110	62	82	116										
	Throw - Diff	7	11	21	10	15	30	12	17	35	13	20	40	16	24	43	19	28	47	23	35	52	26	39	55	30	42	59	33	44	62										
DJ-2-12" (2 NOZZLES)	CFM	770				1060				1250				1440				1730				2020				2500				2780				3170				3550			
	Ps	0.02				0.05				0.06				0.08				0.12				0.17				0.26				0.32				0.41				0.51			
	NC	<20				26				30				34				38				42				47				50				53				56			
	Throw - Jet	19	28	57	26	39	78	31	46	92	35	53	105	43	64	115	50	75	124	62	92	138	68	103	145	78	110	155	87	116	164										
	Throw - Diff	10	15	31	14	21	42	17	25	50	19	29	56	23	34	62	27	40	66	33	50	74	37	55	78	42	59	83	47	62	88										
DJ-3-12" (3 NOZZLES)	CFM	1150				1580				1870				2160				2590				3020				3740				4180				4750				5330			
	Ps	0.02				0.04				0.06				0.08				0.12				0.16				0.24				0.31				0.39				0.50			
	NC	<20				26				30				34				38				42				47				50				53				56			
	Throw - Jet	23	35	69	32	48	95	38	56	113	43	65	128	52	78	140	61	91	152	75	113	169	84	126	178	96	134	190	107	142	201										
	Throw - Diff	12	19	37	17	26	51	20	30	61	23	35	69	28	42	75	33	49	81	40	61	90	45	68	96	51	72	102	57	76	108										
DJ-4-12" (4 NOZZLES)	CFM	1540				2110				2500				2880				3460				4030				4990				5570				6340				7100			
	Ps	0.02				0.04				0.06				0.08				0.12				0.16				0.25				0.31				0.40				0.50			
	NC	21				28				33				36				40				44				49				52				55				58			
	Throw - Jet	27	40	80	37	55	110	44	65	131	50	75	148	60	90	162	70	105	175	87	130	195	97	145	206	110	155	220	124	164	232										
	Throw - Diff	14	22	43	20	30	59	23	35	70	27	40	79	32	48	87	38	56	94	47	70	105	52	78	110	59	83	118	66	88	125										

**15" NOZZLE DIAMETER**

SIZE																																									
DJ-1-15" (1 NOZZLE)	CFM	590				850				980				1170				1430				1690				1950				2210				2470				2730			
	Ps	0.02				0.05				0.06				0.09				0.13				0.18				0.24				0.31				0.39				0.48			
	NC	<20				22				26				30				36				40				44				47				50				52			
	Throw - Jet	18	27	55	26	39	79	30	45	89	36	54	97	44	66	107	52	78	117	60	89	125	68	94	133	76	100	141	84	105	148										
	Throw - Diff	9	14	28	14	20	41	16	24	46	19	28	51	23	34	56	27	41	61	31	46	65	35	49	70	40	52	74	44	55	77										
DJ-2-15" (2 NOZZLES)	CFM	1170				1690				1950				2340				2860				3380				3900				4420				4940				5460			
	Ps	0.02				0.05				0.06				0.09				0.13				0.19				0.25				0.32				0.40				0.48			
	NC	<20				26				29				34				39				43				46				49				52				55			
	Throw - Jet	25	38	76	37	55	110	42	64	125	51	76	137	62	93	152	74	110	165	85	125	177	96	133	189	108	141	200	119	148	210										
	Throw - Diff	13	20	40	19	29	58	22	33	65	27	40	72	32	49	79	38	58	86	44	65	92	50	70	98	56	74	104	62	77	109										
DJ-3-15" (3 NOZZLES)	CFM	1760				2540				2930				3510				4290				5070				5850				6630				7410				8190			
	Ps	0.02				0.05				0.06				0.09				0.13				0.18				0.24				0.31				0.39				0.47			
	NC	<20				27				30				35				40				44				47				51				53				56			
	Throw - Jet	31	47	94	45	68	136	52	78	154	62	94	168	76	115	186	90	135	202	104	154	217	118	163	231	132	173	244	146	182	257										
	Throw - Diff	16	24	49	24	35	71	27	41	80	33	49	88	40	60	97	47	71	105	54	80	113	61	85	120	69	90	127	76	95	134										
DJ-4-15" (4 NOZZLES)	CFM	2340				3380				3900				4680				5720				6760				7800				8840				9880				10920			
	Ps	0.02				0.05				0.06				0.09				0.13				0.18				0.24				0.31				0.39				0.47			
	NC	20				29				33				37				42				46				50				53				55				58			
	Throw - Jet	36	54	108	52	78	156	60	90	177	72	108	194	88	132	215	104	156	233	120	177	251	136	189	267	152	200	282	168	210	297										
	Throw - Diff	19	28	56	27	41	81	31	47	92	38	56	101	46	69	112	54	81	122	63	92	131	71	98	139	79	104	147	88	109	155										

**Test Standard**

- ANSI / ASHRAE standard 70
- Isothermal air used during testing.

**Sound Levels**

- NC is noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10-12 watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands

**Throw**

- The numbers shown are throw distances, in feet, measured along the jet trajectory axis relating to terminal velocities of 150, 100, & 50 fpm, for a free, unbounded jet (no surface effects). Throws are shown for both the Jet air pattern and Diffused air pattern.
- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.

**Spread**

- The spread of air, in feet, is the diameter of the total air mass measured perpendicular to the direction of throw :

Diffuser Spread = Diffuser Throw x .40  
Jet Spread = Jet Throw x .25

**Pressure**

- Ps represents Static Pressure, inches of water, for a diffused pattern. Jet pattern is table value x .70

**Vk, Jet Velocity**

- Feet per minute (fpm), measured at the discharge of the diffuser