

Nom Neck Size		Nom Neck ft2	Neck Velocity	300	400	500	600	700	800	900	1000	
W	H		Static Pressure	0.03	0.05	0.08	0.11	0.15	0.20	0.25	0.31	
8	4	0.22	CFM	50	60	80	100	110	130	140	160	
			NC	<20	<20	<20	23	27	31	34	37	
			4 way throw	1 2 4	1 2 4	2 3 6	2 4 7	3 4 7	3 5 8	3 5 8	4 6 9	4 6 9
			3 way throw	1 2 4	2 2 5	2 3 6	3 4 8	3 4 9	3 5 10	4 5 10	4 5 10	4 6 11
			2 way throw	2 2 5	2 3 5	2 4 7	3 5 9	3 5 10	4 6 11	4 6 12	5 7 13	5 7 13
			1 way throw	2 2 5	2 3 6	3 4 8	4 7 10	4 7 11	5 8 12	5 8 13	6 9 14	6 9 14
			1 way throw	2 2 5	2 3 6	3 4 8	4 7 10	4 7 11	5 8 12	5 8 13	6 9 14	6 9 14
12	4	0.33	CFM	70	100	120	150	170	200	220	250	
			NC	<20	<20	20	25	29	33	36	38	
			4 way throw	1 2 4	2 3 6	2 3 7	3 4 9	3 5 9	4 6 10	4 6 10	5 7 11	5 7 11
			3 way throw	1 2 4	2 3 6	3 4 8	4 5 11	4 5 11	5 7 12	5 7 12	6 8 13	6 8 13
			2 way throw	2 3 5	2 4 7	3 4 9	4 5 11	4 5 11	5 7 12	5 7 12	6 8 13	6 8 13
			1 way throw	2 3 5	3 4 8	4 5 10	5 6 12	5 6 12	6 8 13	6 8 13	7 9 14	7 9 14
			1 way throw	2 3 5	3 4 8	4 5 10	5 6 12	5 6 12	6 8 13	6 8 13	7 9 14	7 9 14
10	8	0.56	CFM	140	180	230	280	320	370	410	460	
			NC	<20	<20	23	28	32	35	38	41	
			4 way throw	2 3 6	3 4 8	3 5 10	4 6 12	4 7 13	5 8 14	5 8 14	6 9 15	6 10 15
			3 way throw	2 3 6	3 4 8	4 5 11	4 6 13	5 7 15	6 9 17	6 9 17	7 10 18	7 11 19
			2 way throw	2 4 7	3 5 10	4 6 12	5 7 15	6 9 17	7 10 19	7 10 19	8 11 20	8 12 21
			1 way throw	2 4 7	3 5 10	4 7 13	5 8 16	6 9 18	7 11 21	7 11 21	8 12 22	9 13 23
			1 way throw	2 4 7	3 5 10	4 7 13	5 8 16	6 9 18	7 11 21	7 11 21	8 12 22	9 13 23
14	8	0.78	CFM	200	260	330	390	460	530	590	660	
			NC	<20	<20	25	29	33	37	40	43	
			4 way throw	2 4 7	3 5 9	4 6 12	5 7 14	5 8 15	6 9 16	6 9 16	7 10 17	8 11 18
			3 way throw	3 4 8	3 5 10	4 6 13	5 7 15	6 9 18	7 10 20	8 11 21	8 11 21	9 12 22
			2 way throw	3 4 9	4 6 12	5 7 15	6 9 17	7 10 20	8 12 23	9 13 24	9 13 24	10 15 26
			1 way throw	3 5 10	4 6 13	5 8 16	6 9 19	7 11 22	8 13 26	9 14 28	9 14 28	11 16 32
			1 way throw	3 5 10	4 6 13	5 8 16	6 9 19	7 11 22	8 13 26	9 14 28	9 14 28	11 16 32
16	8	0.89	CFM	230	300	380	450	530	610	680	760	
			NC	<20	20	25	30	34	38	41	43	
			4 way throw	3 4 8	3 5 10	4 6 12	5 7 15	6 9 16	7 10 17	7 11 18	8 12 19	8 12 19
			3 way throw	3 4 8	4 5 11	5 7 14	6 8 16	7 9 19	8 11 21	8 12 23	9 14 24	9 14 24
			2 way throw	3 5 10	4 6 12	5 8 16	6 9 19	7 11 22	8 13 25	9 14 26	10 16 28	10 16 28
			1 way throw	3 5 10	4 7 13	5 9 17	6 10 20	7 12 23	8 14 27	9 15 29	10 17 31	11 18 34
			1 way throw	3 5 10	4 7 13	5 9 17	6 10 20	7 12 23	8 14 27	9 15 29	10 17 31	11 18 34
14	10	0.97	CFM	250	340	420	500	590	670	760	840	
			NC	<20	20	26	31	35	38	41	44	
			4 way throw	3 4 8	4 5 11	4 7 13	5 8 16	6 9 17	7 10 18	8 12 19	8 12 19	9 13 20
			3 way throw	3 4 8	4 6 12	5 7 14	6 8 17	7 10 20	8 11 22	9 13 24	10 14 25	10 14 25
			2 way throw	3 5 10	4 7 13	5 8 16	7 10 20	8 12 23	9 13 26	10 15 28	11 16 29	11 16 29
			1 way throw	4 5 11	5 7 14	6 9 18	7 11 21	8 13 25	10 14 29	11 16 32	12 18 36	12 18 36
			1 way throw	4 5 11	5 7 14	6 9 18	7 11 21	8 13 25	10 14 29	11 16 32	12 18 36	12 18 36
24	8	1.33	CFM	350	460	580	690	810	930	1040	1160	
			NC	<20	21	27	32	36	39	42	45	
			4 way throw	3 5 9	4 6 12	5 8 15	6 9 18	7 11 20	8 12 22	9 14 23	10 15 24	10 15 24
			3 way throw	3 5 10	4 7 13	6 8 17	7 10 20	8 12 23	9 13 26	10 15 28	11 17 29	11 17 29
			2 way throw	4 6 12	5 8 15	6 10 19	8 12 23	9 14 27	10 16 30	12 17 32	13 19 34	13 19 34
			1 way throw	4 6 13	6 8 17	7 11 21	8 13 25	10 15 29	11 17 34	13 19 38	14 21 42	14 21 42
			1 way throw	4 6 13	6 8 17	7 11 21	8 13 25	10 15 29	11 17 34	13 19 38	14 21 42	14 21 42
24	10	1.67	CFM	440	590	740	890	1040	1180	1330	1480	
			NC	<20	22	28	33	37	40	43	46	
			4 way throw	3 5 10	5 7 14	6 9 17	7 10 21	8 12 23	9 14 24	10 16 26	12 17 27	12 17 27
			3 way throw	4 6 11	5 8 15	6 9 19	8 11 23	9 13 27	10 15 30	11 17 32	13 19 33	13 19 33
			2 way throw	4 7 13	6 9 17	7 11 22	9 13 26	10 15 31	12 17 34	13 20 36	15 22 38	15 22 38
			1 way throw	5 7 14	6 9 19	8 12 24	10 14 29	11 17 33	13 19 38	14 21 43	16 24 48	16 24 48
			1 way throw	5 7 14	6 9 19	8 12 24	10 14 29	11 17 33	13 19 38	14 21 43	16 24 48	16 24 48

Data in table determined with deflectors adjusted as shown below. Variations in these settings will change the sound, throw, and pressure data.

Test Standard

- ANSI / ASHRAE standard 70

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

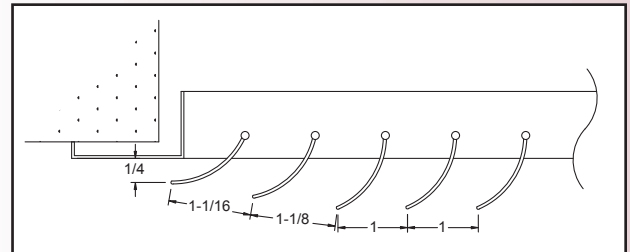
- The numbers shown are throw distances, in feet, measured along the jet trajectory axis relating to terminal velocities of 150, 100, & 50 fpm, with the jet attached to the ceiling surface. For exposed duct installation with free, unattached jet, multiple throw distance in table x .70
- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.

Neck Velocity

- Feet per minute, measured in the supply duct

Pressure

- P_s represents static pressure, inches of water



Nom Neck Size		Nom Neck ft2	Neck Velocity	300	400	500	600	700	800	900	1000																
W	H		Static Pressure	0.03	0.05	0.08	0.11	0.15	0.20	0.25	0.31																
16	16	1.78	CFM	480	640	800	960	1120	1280	1440	1600																
			NC	<20	23	29	33	37	41	44	47																
			4 way throw	4	5	11	5	7	14	6	9	18	7	11	22	8	13	24	10	14	25	11	16	27	12	18	28
			3 way throw	4	6	12	5	8	16	7	10	20	8	12	24	9	14	28	11	16	31	12	18	33	13	20	35
			2 way throw	5	7	14	6	9	18	8	11	23	9	14	27	11	16	32	12	18	36	14	20	38	15	23	40
			1 way throw	5	7	15	7	10	20	8	12	25	10	15	30	12	17	35	13	20	39	15	22	44	16	25	49
24	12	2.00	CFM	540	720	900	1080	1260	1440	1620	1800																
			NC	<20	23	29	34	38	41	44	47																
			4 way throw	4	6	11	5	8	15	6	10	19	8	11	23	9	13	25	10	15	27	11	17	28	13	19	30
			3 way throw	4	6	13	6	8	17	7	10	21	8	13	25	10	15	29	11	17	33	13	19	35	14	21	37
			2 way throw	5	7	14	6	10	19	8	12	24	10	14	29	11	17	34	13	19	38	14	22	40	16	24	42
			1 way throw	5	8	16	7	10	21	9	13	26	10	16	31	12	18	37	14	21	42	16	24	47	17	26	52
18	18	2.25	CFM	620	820	1030	1230	1440	1640	1850	2050																
			NC	<20	24	30	34	38	42	45	48																
			4 way throw	4	6	12	5	8	16	7	10	20	8	12	24	10	14	27	11	16	29	12	18	30	14	20	32
			3 way throw	4	7	13	6	9	18	7	11	22	9	13	27	10	16	31	12	18	35	13	20	37	15	22	39
			2 way throw	5	8	16	7	10	21	9	13	26	10	15	31	12	18	36	14	21	40	16	23	43	17	26	45
			1 way throw	6	8	17	7	11	22	9	14	28	11	17	34	13	20	39	15	22	45	17	25	50	19	28	56
24	18	3.00	CFM	830	1110	1380	1660	1940	2210	2490	2770																
			NC	<20	25	31	36	40	43	46	49																
			4 way throw	5	7	14	6	9	19	8	12	24	9	14	28	11	17	31	13	19	33	14	21	35	16	24	37
			3 way throw	5	8	16	7	10	21	9	13	26	10	16	31	12	18	36	14	21	41	16	23	43	17	26	46
			2 way throw	6	9	18	8	12	24	10	15	30	12	18	36	14	21	42	16	24	47	18	27	50	20	30	53
			1 way throw	6	10	19	9	13	26	11	16	32	13	19	39	15	23	46	17	26	52	19	29	58	22	33	65
36	14	3.50	CFM	970	1290	1610	1930	2260	2580	2900	3220																
			NC	<20	26	32	36	40	44	47	50																
			4 way throw	5	8	15	7	10	20	9	13	26	10	15	31	12	18	34	14	20	36	15	23	38	17	26	40
			3 way throw	6	8	17	7	11	22	9	14	28	11	17	34	13	20	39	15	22	44	17	25	47	19	28	49
			2 way throw	6	10	19	9	13	26	11	16	32	13	19	39	15	23	45	17	26	51	19	29	54	22	32	57
			1 way throw	7	11	21	9	14	28	12	18	35	14	21	42	16	25	49	19	28	56	21	32	63	23	35	70
30	18	3.75	CFM	1050	1390	1740	2090	2440	2790	3140	3480																
			NC	<20	26	32	37	41	44	47	50																
			4 way throw	5	8	16	7	11	21	9	13	27	11	16	32	12	19	35	14	21	37	16	24	40	18	27	42
			3 way throw	6	9	18	8	12	23	10	15	29	12	17	35	14	20	41	16	23	46	17	26	49	19	29	51
			2 way throw	7	10	20	9	13	27	11	17	34	13	20	40	16	24	47	18	27	53	20	30	56	22	34	59
			1 way throw	7	11	22	10	15	29	12	18	36	15	22	44	17	26	51	19	29	58	22	33	66	24	36	73
24	24	4.00	CFM	1120	1490	1870	2240	2610	2990	3360	3730																
			NC	<20	26	32	37	41	44	48	50																
			4 way throw	5	8	16	7	11	22	9	14	28	11	16	33	13	19	36	15	22	39	16	25	41	18	27	43
			3 way throw	6	9	18	8	12	24	10	15	30	12	18	36	14	21	42	16	24	47	18	27	50	20	30	53
			2 way throw	7	10	21	9	14	28	12	17	35	14	21	42	16	24	49	19	28	55	21	31	58	23	35	61
			1 way throw	8	11	23	10	15	30	13	19	38	15	23	45	18	26	53	20	30	60	23	34	68	25	38	75
36	18	4.50	CFM	1260	1680	2100	2520	2940	3360	3780	4200																
			NC	<20	27	33	37	42	45	48	51																
			4 way throw	6	9	17	8	12	23	10	15	29	12	17	35	14	20	38	16	23	41	17	26	43	19	29	46
			3 way throw	6	10	19	9	13	26	11	16	32	13	19	38	15	22	45	17	26	50	19	29	53	21	32	56
			2 way throw	7	11	22	10	15	30	12	18	37	15	22	44	17	26	52	20	30	58	22	33	61	25	37	65
			1 way throw	8	12	24	11	16	32	13	20	40	16	24	48	19	28	56	21	32	64	24	36	72	27	40	80

Data in table determined with deflectors adjusted as shown below. Variations in these settings will change the sound, throw, and pressure data.

Test Standard

- ANSI / ASHRAE standard 70

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

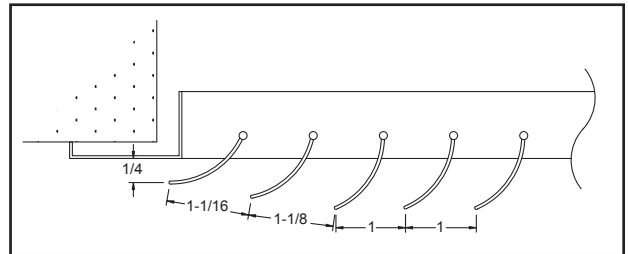
- The numbers shown are throw distances, in feet, measured along the jet trajectory axis relating to terminal velocities of 150, 100, & 50 fpm, with the jet attached to the ceiling surface. For exposed duct installation with free, unattached jet, multiple throw distance in table x .70
- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.

Neck Velocity

- Feet per minute, measured in the supply duct

Pressure

- P_s represents static pressure, inches of water



Nom Neck Size		Nom Neck ft2	Neck Velocity	300	400	500	600	700	800	900	1000																
W	H		Static Pressure	0.03	0.05	0.08	0.11	0.15	0.20	0.25	0.31																
30	24	5.00	CFM	1410	1880	2350	2820	3290	3760	4230	4700																
			NC	20	27	33	38	42	45	49	51																
			4 way throw	6	9	19	8	12	25	10	15	31	12	19	37	14	22	41	16	25	43	19	28	46	21	31	48
			3 way throw	7	10	20	9	14	27	11	17	34	14	20	41	16	24	47	18	27	53	20	30	56	23	34	59
			2 way throw	8	12	23	10	16	31	13	20	39	16	23	47	18	27	55	21	31	61	23	35	65	26	39	69
			1 way throw	8	13	25	11	17	34	14	21	42	17	25	51	20	30	59	23	34	68	25	38	76	28	42	85
32	26	5.78	CFM	1640	2180	2730	3270	3820	4360	4910	5450																
			NC	21	28	34	39	43	46	49	52																
			4 way throw	7	10	20	9	13	27	11	17	33	13	20	40	16	23	44	18	27	47	20	30	50	22	33	52
			3 way throw	7	11	22	10	15	29	12	18	36	15	22	44	17	25	51	19	29	57	22	33	61	24	36	64
			2 way throw	8	13	25	11	17	34	14	21	42	17	25	50	20	29	59	22	34	66	25	38	70	28	42	74
			1 way throw	9	14	27	12	18	36	15	23	46	18	27	55	21	32	64	24	36	73	27	41	82	30	46	91
34	26	6.14	CFM	1740	2320	2900	3480	4060	4640	5220	5800																
			NC	21	28	34	39	43	46	49	52																
			4 way throw	7	10	21	9	14	27	11	17	34	14	21	41	16	24	45	18	27	48	21	31	51	23	34	54
			3 way throw	8	11	23	10	15	30	13	19	38	15	23	45	18	26	53	20	30	59	23	34	63	25	38	66
			2 way throw	9	13	26	12	17	35	14	22	43	17	26	52	20	30	61	23	35	68	26	39	72	29	43	76
			1 way throw	9	14	28	13	19	38	16	24	47	19	28	56	22	33	66	25	38	75	28	42	85	31	47	94
36	30	7.50	CFM	2140	2850	3570	4280	4990	5710	6420	7130																
			NC	22	29	35	40	44	47	50	53																
			4 way throw	8	11	23	10	15	30	13	19	38	15	23	46	18	27	50	20	30	53	23	34	57	25	38	60
			3 way throw	8	12	25	11	17	33	14	21	42	17	25	50	19	29	58	22	33	65	25	37	69	28	42	73
			2 way throw	10	14	29	13	19	38	16	24	48	19	29	58	22	34	67	26	38	76	29	43	80	32	48	84
			1 way throw	10	16	31	14	21	42	17	26	52	21	31	63	24	36	73	28	42	83	31	47	94	35	52	104
36	32	8.00	CFM	2290	3050	3810	4570	5330	6100	6860	7620																
			NC	22	30	35	40	44	48	51	53																
			4 way throw	8	12	24	10	16	31	13	20	39	16	24	47	18	27	52	21	31	55	24	35	59	26	39	62
			3 way throw	9	13	26	11	17	34	14	22	43	17	26	52	20	30	60	23	34	68	26	39	72	29	43	76
			2 way throw	10	15	30	13	20	40	17	25	50	20	30	60	23	35	70	27	40	78	30	45	83	33	50	87
			1 way throw	11	16	32	14	22	43	18	27	54	22	32	65	25	38	75	29	43	86	32	49	97	36	54	108
36	36	9.00	CFM	2580	3440	4300	5160	6020	6880	7740	8600																
			NC	23	30	36	41	45	48	51	54																
			4 way throw	8	13	25	11	17	33	14	21	42	17	25	50	19	29	55	22	33	59	25	38	62	28	42	66
			3 way throw	9	14	27	12	18	37	15	23	46	18	27	55	21	32	64	24	37	72	27	41	76	30	46	80
			2 way throw	11	16	32	14	21	42	18	26	53	21	32	63	25	37	74	28	42	83	32	48	88	35	53	93
			1 way throw	11	17	34	15	23	46	19	29	57	23	34	69	27	40	80	31	46	92	34	52	103	38	57	115

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