

1/2" SPACING

0° DEFLECTION

Nominal Size		Nom Duct ft2	Core Area ft2	Core Vel, fpm	200	300	400	500	600	700	800	900	1000	1200
W Width	H Height				Ps	-0.01	-0.01	-0.02	-0.03	-0.05	-0.07	-0.09	-0.11	-0.13
8	4	0.22	0.16	CFM	30	50	70	80	100	110	130	150	160	200
				NC	<20	<20	<20	<20	<20	<20	20	23	26	31
8	6	0.33	0.26	CFM	50	80	110	130	160	190	210	240	260	320
				NC	<20	<20	<20	<20	<20	<20	22	25	28	33
8	8	0.44	0.37	CFM	70	110	150	180	220	260	290	330	370	440
				NC	<20	<20	<20	<20	<20	<20	20	23	27	29
12	6	0.50	0.41	CFM	80	120	160	210	250	290	330	370	410	490
				NC	<20	<20	<20	<20	<20	<20	21	24	27	30
10	10	0.69	0.59	CFM	120	180	240	300	360	420	480	530	590	710
				NC	<20	<20	<20	<20	<20	<20	22	26	29	31
14	8	0.78	0.67	CFM	130	200	270	330	400	470	530	600	670	800
				NC	<20	<20	<20	<20	<20	<20	23	26	29	32
16	8	0.89	0.77	CFM	150	230	310	380	460	540	610	690	770	920
				NC	<20	<20	<20	<20	<20	<20	23	27	30	32
12	12	1.00	0.88	CFM	180	260	350	440	530	620	700	790	880	1050
				NC	<20	<20	<20	<20	<20	<20	20	24	27	30
20	8	1.11	0.97	CFM	190	290	390	480	580	680	780	870	970	1160
				NC	<20	<20	<20	<20	<20	<20	20	24	28	31
18	10	1.25	1.11	CFM	220	330	440	550	660	780	890	1000	1110	1330
				NC	<20	<20	<20	<20	<20	<20	21	25	28	31
14	14	1.36	1.22	CFM	240	370	490	610	730	850	980	1100	1220	1460
				NC	<20	<20	<20	<20	<20	<20	21	25	29	32
24	10	1.67	1.49	CFM	300	450	600	750	900	1050	1190	1340	1490	1790
				NC	<20	<20	<20	<20	<20	<20	22	26	30	33
16	16	1.78	1.62	CFM	320	480	650	810	970	1130	1290	1450	1620	1940
				NC	<20	<20	<20	<20	<20	<20	22	26	30	33
24	12	2.00	1.82	CFM	360	540	730	910	1090	1270	1450	1630	1820	2180
				NC	<20	<20	<20	<20	<20	<20	23	27	30	33
22	16	2.44	2.25	CFM	450	680	900	1130	1350	1580	1800	2030	2250	2700
				NC	<20	<20	<20	<20	<20	<20	24	28	31	34
20	20	2.78	2.57	CFM	510	770	1030	1290	1540	1800	2060	2320	2570	3090
				NC	<20	<20	<20	<20	<20	<20	24	28	32	35
22	22	3.36	3.14	CFM	630	940	1250	1570	1880	2200	2510	2820	3140	3760
				NC	<20	<20	<20	<20	<20	<20	25	29	33	36
24	24	4.00	3.75	CFM	750	1130	1500	1880	2250	2630	3000	3380	3750	4500
				NC	<20	<20	<20	<20	<20	<20	26	30	34	37
36	18	4.50	4.22	CFM	840	1270	1690	2110	2530	2960	3380	3800	4220	5070
				NC	<20	<20	<20	<20	<20	<20	27	31	34	37
30	24	5.00	4.72	CFM	940	1420	1890	2360	2830	3310	3780	4250	4720	5670
				NC	<20	<20	<20	<20	<20	<20	27	31	35	38
36	24	6.00	5.69	CFM	1140	1710	2280	2850	3410	3980	4550	5120	5690	6830
				NC	<20	<20	<20	<20	<20	<20	28	32	35	38
30	30	6.25	5.94	CFM	1190	1780	2380	2970	3560	4160	4750	5350	5940	7130
				NC	<20	<20	<20	<20	<20	<20	28	32	36	39
42	24	7.00	6.66	CFM	1330	2000	2660	3330	4000	4660	5330	5990	6660	7990
				NC	<20	<20	<20	<20	<20	<20	29	33	36	39
48	24	8.00	7.63	CFM	1530	2290	3050	3810	4580	5340	6100	6870	7630	9150
				NC	<20	<20	<20	<20	<20	<20	29	33	37	40
36	36	9.00	8.63	CFM	1730	2590	3450	4310	5180	6040	6900	7770	8630	10350
				NC	<20	<20	<20	<20	<20	<20	30	34	37	40
38	38	10.03	9.64	CFM	1930	2890	3850	4820	5780	6750	7710	8670	9640	11560
				NC	<20	<20	<20	<20	<20	<20	30	34	38	41
42	38	11.08	10.67	CFM	2130	3200	4270	5340	6400	7470	8540	9600	10670	12800
				NC	<20	<20	<20	<20	<20	<20	31	35	38	41
48	40	13.33	12.88	CFM	2580	3860	5150	6440	7730	9020	10300	11590	12880	15450
				NC	<20	<20	<20	<20	<20	<20	31	35	39	42
48	44	14.67	14.19	CFM	2840	4260	5680	7100	8510	9930	11350	12770	14190	17030
				NC	<20	<20	<20	<20	<20	<20	32	36	39	42
48	48	16.00	15.50	CFM	3100	4650	6200	7750	9300	10850	12400	13950	15500	18600
				NC	<20	<20	<20	<20	<20	<20	32	36	40	43

Notes:

- Nominal size represents duct size. For lay-in applications, use neck size to determine data, not module size.

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

Pressure

- P_s represents static pressure requirement. Total pressure can be calculated as P_t = P_s + P_v
- P_v is the air velocity pressure in the duct and is calculated as P_v = (Velocity/4005)²
- All pressures are stated and calculated in inches of water

1/2" SPACING

45° DEFLECTION

Nominal Size		Nom Duct ft2	Core Area ft2	Core Vel. fpm	200	250	300	350	400	450	500	600	700	800
W Width	H Height				Ps	-0.02	-0.03	-0.05	-0.06	-0.08	-0.10	-0.13	-0.18	-0.25
12	6	0.50	0.42	CFM	80	100	130	150	170	190	210	250	290	330
				NC	<20	<20	<20	<20	21	24	27	32	36	40
30	6	1.25	1.08	CFM	220	270	320	380	430	490	540	650	760	870
				NC	<20	<20	<20	21	25	28	31	36	40	44
8	8	0.44	0.37	CFM	70	90	110	130	150	170	190	220	260	300
				NC	<20	<20	<20	<20	20	24	26	31	36	39
12	6	0.50	0.42	CFM	80	100	130	150	170	190	210	250	290	330
				NC	<20	<20	<20	<20	21	24	27	32	36	40
10	10	0.69	0.60	CFM	120	150	180	210	240	270	300	360	420	480
				NC	<20	<20	<20	<20	22	26	29	34	38	41
14	8	0.78	0.68	CFM	140	170	200	240	270	300	340	410	470	540
				NC	<20	<20	<20	<20	23	26	29	34	38	42
16	8	0.89	0.78	CFM	160	190	230	270	310	350	390	470	540	620
				NC	<20	<20	<20	20	24	27	30	35	39	43
12	12	1.00	0.89	CFM	180	220	270	310	360	400	440	530	620	710
				NC	<20	<20	<20	20	24	27	30	35	39	43
20	8	1.11	0.98	CFM	200	250	290	340	390	440	490	590	690	780
				NC	<20	<20	<20	21	25	28	31	36	40	44
18	10	1.25	1.12	CFM	220	280	340	390	450	500	560	670	780	900
				NC	<20	<20	<20	21	25	28	31	36	40	44
14	14	1.36	1.23	CFM	250	310	370	430	490	550	620	740	860	980
				NC	<20	<20	<20	22	26	29	32	37	41	45
24	10	1.67	1.51	CFM	300	380	450	530	600	680	750	900	1060	1210
				NC	<20	<20	<20	23	26	30	33	38	42	45
16	16	1.78	1.63	CFM	330	410	490	570	650	730	810	980	1140	1300
				NC	<20	<20	<20	23	27	30	33	38	42	46
24	12	2.00	1.83	CFM	370	460	550	640	730	820	920	1100	1280	1470
				NC	<20	<20	<20	24	27	31	33	38	43	46
22	16	2.44	2.27	CFM	450	570	680	790	910	1020	1130	1360	1590	1810
				NC	<20	<20	20	25	28	31	34	39	44	47
20	20	2.78	2.59	CFM	520	650	780	910	1040	1170	1290	1550	1810	2070
				NC	<20	<20	21	25	29	32	35	40	44	48
22	22	3.36	3.15	CFM	630	790	950	1100	1260	1420	1580	1890	2210	2520
				NC	<20	<20	22	26	30	33	36	41	45	49
24	24	4.00	3.77	CFM	750	940	1130	1320	1510	1700	1890	2260	2640	3020
				NC	<20	<20	23	27	30	34	37	42	46	49
36	18	4.50	4.25	CFM	850	1060	1270	1490	1700	1910	2120	2550	2970	3400
				NC	<20	<20	23	27	31	34	37	42	46	50
30	24	5.00	4.75	CFM	950	1190	1420	1660	1900	2140	2370	2850	3320	3800
				NC	<20	<20	24	28	31	35	38	43	47	50
36	24	6.00	5.72	CFM	1140	1430	1710	2000	2290	2570	2860	3430	4000	4570
				NC	<20	<20	24	29	32	35	38	43	48	51
30	30	6.25	5.97	CFM	1190	1490	1790	2090	2390	2680	2980	3580	4180	4770
				NC	<20	20	25	29	32	36	39	44	48	51
42	24	7.00	6.69	CFM	1340	1670	2010	2340	2680	3010	3340	4010	4680	5350
				NC	<20	20	25	29	33	36	39	44	48	52
48	24	8.00	7.66	CFM	1530	1910	2300	2680	3060	3450	3830	4600	5360	6130
				NC	<20	21	26	30	34	37	40	45	49	53
36	36	9.00	8.66	CFM	1730	2160	2600	3030	3460	3900	4330	5200	6060	6930
				NC	<20	21	26	30	34	37	40	45	49	53
38	38	10.03	9.67	CFM	1930	2420	2900	3380	3870	4350	4830	5800	6770	7730
				NC	<20	22	27	31	35	38	41	46	50	54
42	38	11.08	10.70	CFM	2140	2680	3210	3750	4280	4820	5350	6420	7490	8560
				NC	<20	22	27	31	35	38	41	46	50	54
48	40	13.33	12.92	CFM	2580	3230	3870	4520	5170	5810	6460	7750	9040	10330
				NC	<20	23	28	32	36	39	42	47	51	55
48	44	14.67	14.23	CFM	2850	3560	4270	4980	5690	6400	7120	8540	9960	11380
				NC	<20	23	28	33	36	39	42	47	52	55
48	48	16.00	15.54	CFM	3110	3890	4660	5440	6220	7000	7770	9330	10880	12440
				NC	<20	24	29	33	37	40	43	48	52	56

Notes:

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