

NC 10								NC 20		NC 30		NC 40	
Nominal Duct Size (in.)	Nominal Duct Area (ft ²)	Core Area (ft ²)	Core Velocity Velocity Pressure Neg. Static Pressure	300 0.006 0.012	400 0.01 0.022	500 0.016 0.034	600 0.022 0.049	700 0.031 0.067	900 0.05 0.111	1100 0.075 0.165	1300 0.105 0.231	1500 0.14 0.307	
6x6	0.25	0.19	Airflow, cfm NC	57 -	76 -	95 -	114 -	133 13	171 20	209 26	247 31	285 35	
8x6	0.33	0.26	Airflow, cfm NC	78 -	104 -	130 -	156 -	182 14	234 22	286 27	338 32	390 36	
10x6	0.42	0.34	Airflow, cfm NC	102 -	136 -	170 -	204 11	238 16	306 23	374 28	442 33	510 37	
8x8	0.44	0.37	Airflow, cfm NC	111 -	148 -	185 -	222 12	259 16	333 23	407 29	481 34	555 38	
12x6	0.5	0.41	Airflow, cfm NC	123 -	164 -	205 -	246 12	287 16	369 24	451 29	533 34	615 38	
14x6	0.58	0.48	Airflow, cfm NC	144 -	192 -	240 -	288 13	336 17	432 24	528 30	624 35	720 39	
16x6	0.67	0.57	Airflow, cfm NC	171 -	228 -	285 -	342 13	399 18	513 25	627 31	741 36	855 40	
12x8			Airflow, cfm NC	177 -	236 -	295 -	354 14	413 18	531 25	649 31	767 36	885 40	
10x10	0.69	0.59	Airflow, cfm NC	189 -	252 -	315 -	378 14	441 18	567 25	693 31	819 36	945 40	
18x6	0.75	0.63	Airflow, cfm NC	216 -	288 -	360 -	432 14	504 19	648 26	792 32	936 37	1080 41	
20x6	0.83	0.72	Airflow, cfm NC	231 -	308 -	385 -	462 15	539 19	693 26	847 32	1001 37	1155 41	
22x6			Airflow, cfm NC	264 -	352 -	440 -	528 15	616 20	792 27	968 33	1144 37	1320 42	
24x6	1	0.88	Airflow, cfm NC	333 -	444 -	555 11	666 16	777 21	999 28	1221 34	1443 38	1665 43	
18x10			Airflow, cfm NC	366 -	488 -	610 11	732 17	854 21	1098 28	1342 34	1586 39	1830 43	
36x6	1.5	1.35	Airflow, cfm NC	405 -	540 -	675 12	810 17	945 22	1215 29	1485 35	1755 39	2025 43	
18x12			Airflow, cfm NC	411 -	548 -	685 12	822 17	959 22	1233 29	1507 35	1781 39	2055 43	
30x8	1.67	1.49	Airflow, cfm NC	447 -	596 -	745 12	894 18	1043 22	1341 29	1639 35	1937 40	2235 44	
24x10			Airflow, cfm NC	477 -	636 -	795 13	954 18	1113 22	1431 29	1749 35	2067 40	2385 44	
42x6	1.75	1.59	Airflow, cfm NC	486 -	648 -	810 13	972 18	1134 22	1458 30	1782 35	2106 40	2430 44	
16x16			Airflow, cfm NC	546 -	728 -	910 13	1092 18	1274 23	1638 30	2002 36	2366 41	2730 45	
24x12	2	1.82	Airflow, cfm NC	621 -	828 -	1035 14	1242 19	1449 23	1863 31	2277 36	2691 41	3105 45	
18x18	2.25	2.07	Airflow, cfm NC	642 -	856 -	1070 14	1284 19	1498 24	1926 31	2354 37	2782 41	3210 45	
24x14	2.33	2.14	Airflow, cfm NC	687 -	916 -	1145 14	1374 19	1603 24	2061 31	2519 37	2977 42	3435 46	
30x12	2.5	2.29	Airflow, cfm NC	738 -	984 -	1230 15	1476 20	1722 24	2214 31	2706 37	3198 42	3690 46	
20x20	2.78	2.57	Airflow, cfm NC	771 -	1028 -	1285 15	1542 20	1799 24	2313 32	2827 37	3341 42	3855 46	
36x12	3	2.75	Airflow, cfm NC	825 -	1100 -	1375 15	1650 20	1925 25	2475 32	3025 38	3575 42	4125 47	
30x16	3.33	3.11	Airflow, cfm NC	933 -	1244 -	1555 16	1866 21	2177 25	2799 32	3421 38	4043 43	4665 47	
24x20			Airflow, cfm NC	942 -	1256 -	1570 16	1884 21	2198 25	2826 32	3454 38	4082 43	4710 47	
22x22	3.36	3.14	Airflow, cfm NC	966 -	1288 -	1610 16	1932 21	2254 25	2898 33	3542 38	4186 43	4830 47	
42x12	3.5	3.22	Airflow, cfm NC	1029 -	1372 -	1715 16	2058 21	2401 26	3087 33	3773 39	4459 43	5145 47	
36x14			Airflow, cfm NC	1050 -	1400 -	1750 16	2100 21	2450 26	3150 33	3850 39	4550 43	5250 48	

Static pressures are negative, in inches of water, measured per ASHRAE 70-91
 NC based on room absorption of 10 dB, re 10⁻¹² watts, measured per ASHRAE 70-91

NC 10						NC 20		NC 30	NC 40			
Nominal Duct Size (in.)	Nominal Duct Area (ft ²)	Core Area (ft ²)	Core Velocity Velocity Pressure Neg. Static Pressure	300 0.006 0.012	400 0.01 0.022	500 0.016 0.034	600 0.022 0.049	700 0.031 0.067	900 0.05 0.111	1100 0.075 0.165	1300 0.105 0.231	1500 0.14 0.307
48x12	4	3.75	Airflow, cfm	1125	1500	1875	2250	2625	3375	4125	4875	5625
24x24			NC	-	-	16	22	26	33	39	44	48
36x18	4.5	4.22	Airflow, cfm	1266	1688	2110	2532	2954	3798	4642	5486	6330
36x20			NC	-	-	17	22	27	34	39	44	48
30x24	5	4.71	Airflow, cfm	1413	1884	2355	2826	3297	4239	5181	6123	7065
42x18			NC	-	11	17	23	27	34	40	45	49
28x28	5.25	4.94	Airflow, cfm	1482	1976	2470	2964	3458	4446	5434	6422	7410
			NC	-	11	18	23	27	34	40	45	49
42x20	5.44	5.16	Airflow, cfm	1548	2064	2580	3096	3612	4644	5676	6708	7740
			NC	-	11	18	23	27	35	40	45	49
30x28	5.83	5.51	Airflow, cfm	1653	2204	2755	3306	3857	4959	6061	7163	8265
48x18			NC	-	12	18	23	28	35	41	45	50
36x24	6	5.66	Airflow, cfm	1698	2264	2830	3396	3962	5094	6226	7358	8490
30x30			NC	-	12	18	23	28	35	41	46	50
42x24	6.25	5.94	Airflow, cfm	1782	2376	2970	3564	4158	5346	6534	7722	8910
			NC	-	12	18	24	28	35	41	46	50
36x28	7	6.66	Airflow, cfm	1998	2664	3330	3996	4662	5994	7326	8658	9990
46x22			NC	-	12	19	24	28	36	41	46	50
32x32	7.03	6.68	Airflow, cfm	2004	2672	3340	4008	4676	6012	7348	8684	10020
			NC	-	12	19	24	29	36	41	46	50
36x30	7.11	6.78	Airflow, cfm	2034	2712	3390	4068	4746	6102	7458	8814	10170
			NC	-	13	19	24	29	36	42	46	50
48x24	7.5	7.16	Airflow, cfm	2148	2864	3580	4296	5012	6444	7876	9308	10740
36x32			NC	-	13	19	24	29	36	42	47	51
34x34	8	7.63	Airflow, cfm	2289	3052	3815	4578	5341	6867	8393	9919	11445
			NC	-	13	19	25	29	36	42	47	51
36x34	8.03	7.68	Airflow, cfm	2304	3072	3840	4608	5376	6912	8448	9984	11520
			NC	-	13	19	25	29	36	42	47	51
42x30	8.5	8.14	Airflow, cfm	2442	3256	4070	4884	5698	7326	8954	10582	12210
			NC	-	13	20	25	29	37	42	47	51
36x36	8.75	8.38	Airflow, cfm	2514	3352	4190	5028	5866	7542	9218	10894	12570
			NC	-	13	20	25	29	37	42	47	51
42x34	9	8.63	Airflow, cfm	2589	3452	4315	5178	6041	7767	9493	11219	12945
48x30			NC	-	14	20	25	30	37	43	47	51
38x38	10	9.6	Airflow, cfm	2880	3840	4800	5760	6720	8640	10560	12480	14400
			NC	-	14	20	26	30	37	43	48	52
42x36	10.03	9.64	Airflow, cfm	2892	3856	4820	5784	6748	8676	10604	12532	14460
			NC	-	14	20	26	30	37	43	48	52
46x34	10.5	10.1	Airflow, cfm	3030	4040	5050	6060	7070	9090	11110	13130	15150
			NC	-	14	21	26	30	38	43	48	52
42x38	10.86	10.45	Airflow, cfm	3135	4180	5225	6270	7315	9405	11495	13585	15675
			NC	-	14	21	26	30	38	43	48	52
40x40	11.08	10.67	Airflow, cfm	3201	4268	5335	6402	7469	9603	11737	13871	16005
			NC	-	14	21	26	31	38	44	48	52
48x36	11.11	10.7	Airflow, cfm	3210	4280	5350	6420	7490	9630	11770	13910	16050
			NC	-	15	21	26	31	38	44	48	52
42x42	12	11.57	Airflow, cfm	3471	4628	5785	6942	8099	10413	12727	15041	17355
			NC	-	15	21	26	31	38	44	49	53
44x44	12.25	11.82	Airflow, cfm	3546	4728	5910	7092	8274	10638	13002	15366	17730
			NC	-	15	21	27	31	38	44	49	53
48x42	13.44	12.99	Airflow, cfm	3897	5196	6495	7794	9093	11691	14289	16887	19485
			NC	-	15	22	27	31	39	44	49	53
46x46	14	13.54	Airflow, cfm	4062	5416	6770	8124	9478	12186	14894	17602	20310
			NC	-	16	22	27	32	39	45	49	53
48x46	14.69	14.22	Airflow, cfm	4266	5688	7110	8532	9954	12798	15642	18486	21330
			NC	-	16	22	27	32	39	45	50	54
48x48	15.33	14.85	Airflow, cfm	4455	5940	7425	8910	10395	13365	16335	19305	22275
			NC	-	16	22	28	32	39	45	50	54
48x48	16	15.5	Airflow, cfm	4650	6200	7750	9300	10850	13950	17050	20150	23250
			NC	-	16	23	28	32	39	45	50	54
NC 50												

NC 50

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