



PERFORMANCE DATA

550 - 1/2" SPACING - 45DEG
 PERFORMANCE BASED ON NOMINAL SIZES SHOWN IN BOLD

Nominal Duct Size (in.)	Nominal Duct Area (ft ²)	Core Area (ft ²)	Core Velocity Velocity Pressure Neg. Static Pressure	NC-20						NC-30		
				100 0.001 0.003	200 0.002 0.011	300 0.006 0.026	400 0.010 0.045	500 0.016 0.071	600 0.022 0.102	700 0.031 0.139	800 0.040 0.182	900 0.050 0.230
6x6	0.25	0.19	Airflow, cfm NC	19 -	38 -	57 -	76 -	95 10	114 18	133 25	152 29	171 33
8x6	0.33	0.26	Airflow, cfm NC	26 -	52 -	78 -	104 -	130 11	156 19	182 25	208 30	234 35
10x6	0.42	0.34	Airflow, cfm NC	34 -	68 -	102 -	136 -	170 12	204 20	238 26	272 31	306 36
8x8	0.44	0.37	Airflow, cfm NC	37 -	74 -	111 -	148 -	185 12	222 20	259 26	296 31	333 36
12x6	0.5	0.41	Airflow, cfm NC	41 -	82 -	123 -	164 -	205 12	246 20	287 26	328 32	369 36
14x6	0.58	0.48	Airflow, cfm NC	48 -	96 -	144 -	192 -	240 12	288 20	336 26	384 32	432 37
16x6			Airflow, cfm NC	57 -	114 -	171 -	228 -	285 13	342 21	399 27	456 32	513 38
12x8	0.67	0.57	Airflow, cfm NC	59 -	118 -	177 -	236 -	295 13	354 21	413 27	472 32	531 38
10x10	0.69	0.59	Airflow, cfm NC	63 -	126 -	189 -	252 -	315 14	378 22	441 28	504 33	567 38
18x6	0.75	0.63	Airflow, cfm NC	72 -	144 -	216 -	288 -	360 14	432 22	504 28	576 33	648 38
20x6			Airflow, cfm NC	77 -	154 -	231 -	308 -	385 14	462 22	539 28	616 34	693 38
24x6			Airflow, cfm NC	88 -	176 -	264 -	352 -	440 15	528 22	616 28	704 34	792 39
12x12	1	0.88	Airflow, cfm NC	111 -	222 -	333 -	444 -	555 15	666 22	777 28	888 34	999 39
30x6			Airflow, cfm NC	122 -	244 -	366 -	488 -	610 16	732 23	854 29	976 34	1098 39
14x14	1.36	1.22	Airflow, cfm NC	135 -	270 -	405 -	540 -	675 16	810 24	945 29	1080 34	1215 39
36x6			Airflow, cfm NC	137 -	274 -	411 -	548 -	685 16	822 24	959 30	1096 35	1233 39
18x12	1.5	1.35	Airflow, cfm NC	149 -	298 -	447 -	596 -	745 16	894 24	1043 30	1192 35	1341 39
22x10	1.53	1.37	Airflow, cfm NC	159 -	318 -	477 -	636 -	795 17	954 24	1113 30	1272 35	1431 39
30x8			Airflow, cfm NC	162 -	324 -	486 -	648 -	810 17	972 24	1134 30	1296 35	1458 39
18x14	1.75	1.59	Airflow, cfm NC	182 -	364 -	546 -	728 -	910 17	1092 24	1274 30	1456 35	1638 39
16x16	1.78	1.62	Airflow, cfm NC	207 -	414 -	621 -	828 -	1035 18	1242 25	1449 31	1656 35	1863 40
24x12	2	1.82	Airflow, cfm NC	214 -	428 -	642 -	856 -	1070 18	1284 25	1498 31	1712 35	1926 40
18x16			Airflow, cfm NC	229 -	458 -	687 -	916 -	1145 18	1374 25	1603 31	1832 35	2061 40
18x18	2.25	2.07	Airflow, cfm NC	246 -	492 -	738 -	984 -	1230 10	1476 25	1722 32	1968 36	2214 39
24x14	2.33	2.14	Airflow, cfm NC	257 -	514 -	771 -	1028 -	1285 18	1542 25	1799 32	2056 36	2313 40
30x12	2.5	2.29	Airflow, cfm NC	275 -	550 -	825 -	1100 -	1375 19	1650 26	1925 32	2200 37	2475 42
24x16	2.5	2.29	Airflow, cfm NC	311 -	622 -	933 -	1244 -	1555 19	1866 26	2177 32	2488 37	2799 42
24x20	2.67	2.46	Airflow, cfm NC	314 -	628 -	942 -	1256 -	1570 19	1884 26	2198 33	2512 38	2826 42
20x20	2.78	2.57	Airflow, cfm NC	322 -	644 -	966 -	1288 -	1610 19	1932 26	2254 33	2576 38	2898 43
36x12	3	2.75	Airflow, cfm NC	343 -	686 -	1029 -	1372 -	1715 19	2058 26	2401 33	2744 38	3087 43
30x16	3.33	3.11	Airflow, cfm NC	350 -	700 -	1050 -	1400 -	1750 19	2100 26	2450 33	2800 38	3150 43
24x22	3.67	3.43	Airflow, cfm NC									
30x18	3.75	3.5	Airflow, cfm NC									

NC-40

• Static pressures are negative, in inches of water, measured per ANSI/ASHRAE Standard 70-2006

• NC based on room absorption of 10 dB, re 10⁻¹² watts, measured per ANSI/ASHRAE Standard 70-2006



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 PERFORMANCE BASED ON NOMINAL SIZES SHOWN IN BOLD

Nominal Duct Size (in.)	Nominal Duct Area (ft ²)	Core Area (ft ²)	Core Velocity Velocity Pressure Neg. Static Pressure	100		200		300		400		500		600		700		800		900	
				0.001 0.003	0.002 0.011	0.006 0.026	0.010 0.045	0.016 0.071	0.022 0.102	0.031 0.139	0.040 0.182	0.050 0.230									
48x12 24x24	4	3.75	Airflow, cfm NC	375 -	750 -	1125 -	1500 10	1875 19	2250 26	2625 33	3000 39	3375 43									
36x18	4.5	4.22	Airflow, cfm NC	422 -	844 -	1266 -	1688 10	2110 19	2532 26	2954 33	3376 39	3798 43									
36x20 30x24	5	4.71	Airflow, cfm NC	471 -	942 -	1413 -	1884 11	2355 19	2826 27	3297 33	3768 38	4239 43									
42x18	5.25	4.94	Airflow, cfm NC	494 -	988 -	1482 -	1976 12	2470 20	2964 28	3458 34	3952 39	4446 44									
28x28	5.44	5.16	Airflow, cfm NC	516 -	1032 -	1548 -	2064 12	2580 21	3096 28	3612 34	4128 40	4644 44									
42x20 30x28	5.83	5.51	Airflow, cfm NC	551 -	1102 -	1653 -	2204 12	2755 21	3306 28	3857 34	4408 40	4959 44									
48x18 36x24	6	5.66	Airflow, cfm NC	566 -	1132 -	1698 -	2264 12	2830 21	3396 28	3962 35	4528 40	5094 44									
30x30	6.25	5.94	Airflow, cfm NC	594 -	1188 -	1782 -	2376 12	2970 21	3564 28	4158 35	4752 40	5346 44									
42x24 36x28	7	6.66	Airflow, cfm NC	666 -	1332 -	1998 -	2664 13	3330 22	3996 29	4662 35	5328 40	5994 45									
46x22	7.03	6.68	Airflow, cfm NC	668 -	1336 -	2004 -	2672 13	3340 22	4008 29	4676 35	5344 40	6012 45									
32x32	7.11	6.78	Airflow, cfm NC	678 -	1356 -	2034 -	2712 13	3390 22	4068 29	4746 35	5424 40	6102 45									
36x30	7.5	7.16	Airflow, cfm NC	716 -	1432 -	2148 -	2864 14	3580 23	4296 30	5012 36	5728 41	6444 46									
48x24 36x32	8	7.63	Airflow, cfm NC	763 -	1526 -	2289 -	3052 14	3815 23	4578 30	5341 36	6104 41	6867 46									
34x34	8.03	7.68	Airflow, cfm NC	768 -	1536 -	2304 -	3072 14	3840 23	4608 30	5376 36	6144 41	6912 46									
36x34	8.5	8.14	Airflow, cfm NC	814 -	1628 -	2442 -	3256 14	4070 23	4884 30	5698 36	6512 41	7326 46									
42x30	8.75	8.38	Airflow, cfm NC	838 -	1676 -	2514 -	3352 14	4190 23	5028 30	5866 36	6704 41	7542 46									
36x36	9	8.63	Airflow, cfm NC	863 -	1726 -	2589 -	3452 14	4315 23	5178 30	6041 36	6904 41	7767 46									
42x34 48x30	10	9.6	Airflow, cfm NC	960 -	1920 -	2880 -	3840 14	4800 23	5760 30	6720 36	7680 41	8640 46									
38x38	10.03	9.64	Airflow, cfm NC	964 -	1928 -	2892 -	3856 14	4820 23	5784 30	6748 36	7712 41	8676 46									
42x36	10.5	10.1	Airflow, cfm NC	1010 -	2020 -	3030 -	4040 15	5050 23	6060 31	7070 37	8080 42	9090 47									
46x34	10.86	10.45	Airflow, cfm NC	1045 -	2090 -	3135 -	4180 15	5225 23	6270 31	7315 37	8360 42	9405 47									
42x38	11.08	10.67	Airflow, cfm NC	1067 -	2134 -	3201 -	4268 15	5335 23	6402 31	7469 37	8536 42	9603 47									
40x40	11.11	10.7	Airflow, cfm NC	1070 -	2140 -	3210 -	4280 15	5350 23	6420 31	7490 37	8560 42	9630 47									
48x36	12	11.57	Airflow, cfm NC	1157 -	2314 -	3471 -	4628 15	5785 23	6942 31	8099 37	9256 42	10413 47									
42x42	12.25	11.82	Airflow, cfm NC	1182 -	2364 -	3546 -	4728 15	5910 24	7092 31	8274 37	9456 42	10638 47									
44x44	13.44	12.99	Airflow, cfm NC	1299 -	2598 -	3897 -	5196 15	6495 24	7794 32	9093 38	10392 43	11691 48									
48x42	14	13.54	Airflow, cfm NC	1354 -	2708 -	4062 -	5416 16	6770 24	8124 32	9478 38	10832 43	12186 48									
46x46	14.69	14.22	Airflow, cfm NC	1422 -	2844 -	4266 -	5688 16	7110 25	8532 32	9954 39	11376 44	12798 48									
48x46	15.33	14.85	Airflow, cfm NC	1485 -	2970 -	4455 -	5940 16	7425 25	8910 32	10395 39	11880 44	13365 48									
48x48	16	15.5	Airflow, cfm NC	1550 -	3100 -	4650 -	6200 16	7750 25	9300 32	10850 39	12400 44	13950 48									

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PERFORMANCE DATA

550 - 1/2" SPACING - ODEG

PERFORMANCE BASED ON NOMINAL SIZES SHOWN IN BOLD

Nominal Duct Size (in.)	Nominal Duct Area (ft ²)	Core Area (ft ²)	Core Velocity Velocity Pressure Neg. Static Pressure	NC-10			NC-20			NC-30		
				300 0.006 0.013	400 0.010 0.022	500 0.016 0.035	600 0.022 0.050	700 0.031 0.068	800 0.040 0.089	900 0.050 0.113	1000 0.062 0.140	1100 0.075 0.169
6x6	0.25	0.19	Airflow, cfm NC	57 -	76 -	95 -	114 12	133 16	152 20	171 23	190 25	209 28
8x6	0.33	0.26	Airflow, cfm NC	78 -	104 -	130 -	156 13	182 17	208 21	234 24	260 27	286 29
10x6	0.42	0.34	Airflow, cfm NC	102 -	136 -	170 -	204 15	238 19	272 22	306 24	340 28	374 31
8x8	0.44	0.37	Airflow, cfm NC	111 -	148 -	185 -	222 15	259 19	296 23	333 26	370 28	407 31
12x6	0.5	0.41	Airflow, cfm NC	123 -	164 -	205 11	246 15	287 19	328 23	369 26	410 29	451 31
14x6	0.58	0.48	Airflow, cfm NC	144 -	192 -	240 11	288 16	336 20	384 24	432 27	480 30	528 32
16x6 12x8	0.67 0.57		Airflow, cfm NC	171 -	228 -	285 12	342 17	399 21	456 24	513 27	570 30	627 33
10x10	0.69	0.59	Airflow, cfm NC	177 -	236 -	295 12	354 17	413 21	472 25	531 28	590 30	649 33
18x6	0.75	0.63	Airflow, cfm NC	189 -	252 -	315 12	378 17	441 21	504 25	567 28	630 31	693 33
20x6 12x10	0.83 0.72		Airflow, cfm NC	216 -	288 -	360 13	432 18	504 22	576 25	648 29	720 31	792 34
22x6	0.92	0.77	Airflow, cfm NC	231 -	308 -	385 13	462 18	539 22	616 26	693 29	770 32	847 34
24x6 12x12	1 0.88		Airflow, cfm NC	264 -	352 -	440 14	528 19	616 23	704 26	792 29	880 32	968 35
30x6 18x10	1.25 1.11		Airflow, cfm NC	333 -	444 -	555 15	666 20	777 24	888 27	999 30	1110 33	1221 36
14x14	1.36	1.22	Airflow, cfm NC	366 -	488 -	610 15	732 20	854 24	976 28	1098 31	1220 34	1342 36
36x6 18x12	1.5 1.35		Airflow, cfm NC	405 -	540 -	675 16	810 21	945 25	1080 28	1215 31	1350 34	1485 37
22x10	1.53	1.37	Airflow, cfm NC	411 -	548 -	685 16	822 21	959 25	1096 28	1233 31	1370 34	1507 37
30x8 24x10	1.67 1.49		Airflow, cfm NC	447 -	596 -	745 16	894 21	1043 25	1192 29	1341 32	1490 34	1639 37
42x6 18x14	1.75 1.59		Airflow, cfm NC	477 -	636 11	795 17	954 21	1113 25	1272 29	1431 32	1590 35	1749 37
16x16	1.78	1.62	Airflow, cfm NC	486 -	648 11	810 17	972 21	1134 25	1296 29	1458 32	1620 35	1782 37
24x12 18x16	2	1.82	Airflow, cfm NC	546 -	728 11	910 17	1092 22	1274 26	1456 29	1638 33	1820 35	2002 38
18x18	2.25	2.07	Airflow, cfm NC	621 -	828 12	1035 18	1242 22	1449 26	1656 30	1863 33	2070 36	2277 38
24x14	2.33	2.14	Airflow, cfm NC	642 -	856 12	1070 18	1284 23	1498 27	1712 30	1926 33	2140 36	2354 39
30x12	2.5	2.29	Airflow, cfm NC	687 -	916 12	1145 18	1374 23	1603 27	1832 30	2061 34	2290 36	2519 39
24x16	2.67	2.46	Airflow, cfm NC	738 -	984 13	1230 18	1476 23	1722 27	1968 31	2214 34	2460 37	2706 39
20x20	2.78	2.57	Airflow, cfm NC	771 -	1028 13	1285 19	1542 23	1799 27	2056 31	2313 34	2570 37	2827 39
36x12	3	2.75	Airflow, cfm NC	825 -	1100 13	1375 19	1650 24	1925 28	2200 31	2475 34	2750 37	3025 40
30x16 24x20	3.33 3.11		Airflow, cfm NC	933 -	1244 14	1555 19	1866 24	2177 28	2488 32	2799 35	3110 38	3421 40
22x22	3.36	3.14	Airflow, cfm NC	942 -	1256 14	1570 19	1884 24	2198 28	2512 32	2826 35	3140 38	3454 40
42x12 36x14	3.5 3.5	3.22	Airflow, cfm NC	966 -	1288 14	1610 20	1932 24	2254 28	2576 32	2898 35	3220 38	3542 40
24x22	3.67	3.43	Airflow, cfm NC	1029 -	1372 14	1715 20	2058 25	2401 29	2744 32	3087 35	3430 38	3773 41
30x18	3.75	3.5	Airflow, cfm NC	1050 -	1400 14	1750 20	2100 25	2450 29	2800 32	3150 35	3500 38	3850 41

NC-40

- Static pressures are negative, in inches of water, measured per ANSI/ASHRAE Standard 70-2006.
- NC based on room absorption of 10 dB, re 10⁻¹² watts, measured per ANSI/ASHRAE Standard 70-2006.



PERFORMANCE DATA

550 - 1/2" SPACING - ODEG

PERFORMANCE BASED ON NOMINAL SIZES SHOWN IN BOLD

Nominal Duct Size (in.)	Nominal Duct Area (ft ²)	Core Area (ft ²)	Core Velocity Velocity Pressure Neg. Static Pressure	NC-10		NC-20		NC-30		NC-40			
				300 0.006 0.013	400 0.010 0.022	500 0.016 0.035	600 0.022 0.050	700 0.031 0.068	800 0.040 0.089	900 0.050 0.113	1000 0.062 0.140	1100 0.075 0.169	
42x18	5.25	4.94	Airflow, cfm NC	1482 -	1976 16	2470 21	2964 26	3458 30	3952 34	4446 37	4940 40	5434 42	
28x28	5.44	5.16	Airflow, cfm NC	1548 -	2064 16	2580 22	3096 26	3612 30	4128 34	4644 37	5160 40	5676 42	
42x20 30x28	5.83	5.51	Airflow, cfm NC	1653 -	2204 16	2755 22	3306 27	3857 31	4408 34	4959 37	5510 40	6061 43	
48x18 36x24	6	5.66	Airflow, cfm NC	1698 -	2264 16	2830 22	3396 27	3962 31	4528 34	5094 37	5660 40	6226 43	
30x30	6.25	5.94	Airflow, cfm NC	1782 -	2376 16	2970 22	3564 27	4158 31	4752 35	5346 38	5940 40	6534 43	
42x24 36x28	7	6.66	Airflow, cfm NC	1998 -	2664 17	3330 23	3996 28	4662 32	5328 35	5994 38	6660 41	7326 43	
46x22	7.03	6.68	Airflow, cfm NC	2004 -	2672 17	3340 23	4008 28	4676 32	5344 35	6012 38	6680 41	7348 43	
32x32	7.11	6.78	Airflow, cfm NC	2034 -	2712 17	3390 23	4068 28	4746 32	5424 35	6102 38	6780 41	7458 44	
36x30	7.5	7.16	Airflow, cfm NC	2148 -	2864 17	3580 23	4296 28	5012 32	5728 35	6444 38	7160 41	7876 44	
48x24 36x32	8	7.63	Airflow, cfm NC	2289 -	3052 17	3815 23	4578 28	5341 32	6104 36	6867 39	7630 42	8393 44	
34x34	8.03	7.68	Airflow, cfm NC	2304 -	3072 18	3840 23	4608 28	5376 32	6144 36	6912 39	7680 42	8448 44	
36x34	8.5	8.14	Airflow, cfm NC	2442 -	3256 18	4070 24	4884 28	5698 32	6512 36	7326 39	8140 42	8954 44	
42x30	8.75	8.38	Airflow, cfm NC	2514 -	3352 18	4190 24	5028 29	5866 33	6704 36	7542 39	8380 42	9218 44	
36x36	9	8.63	Airflow, cfm NC	2589 -	3452 18	4315 24	5178 29	6041 33	6904 36	7767 39	8630 42	9493 45	
42x34 48x30	10	9.6	Airflow, cfm NC	2880 11	3840 18	4800 24	5760 29	6720 33	7680 37	8640 40	9600 43	10560 45	
38x38	10.03	9.64	Airflow, cfm NC	2892 11	3856 18	4820 24	5784 29	6748 33	7712 37	8676 40	9640 43	10604 45	
42x36	10.5	10.1	Airflow, cfm NC	3030 11	4040 19	5050 25	6060 29	7070 33	8080 37	9090 40	10100 43	11110 45	
46x34	10.86	10.45	Airflow, cfm NC	3135 11	4180 19	5225 25	6270 29	7315 34	8360 37	9405 40	10450 43	11495 45	
42x38	11.08	10.67	Airflow, cfm NC	3201 11	4268 19	5335 25	6402 30	7469 34	8536 37	9603 40	10670 43	11737 45	
40x40	11.11	10.7	Airflow, cfm NC	3210 11	4280 19	5350 25	6420 30	7490 34	8560 37	9630 40	10700 43	11770 45	
48x36	12	11.57	Airflow, cfm NC	3471 12	4628 19	5785 25	6942 30	8099 34	9256 37	10413 41	11570 43	12727 46	
42x42	12.25	11.82	Airflow, cfm NC	3546 12	4728 19	5910 25	7092 30	8274 34	9456 38	10638 41	11820 43	13002 46	
44x44	13.44	12.99	Airflow, cfm NC	3897 12	5196 20	6495 26	7794 30	9093 34	10392 38	11691 41	12990 44	14289 46	
48x42	14	13.54	Airflow, cfm NC	4062 12	5416 20	6770 26	8124 31	9478 35	10832 38	12186 41	13540 44	14894 47	
46x46	14.69	14.22	Airflow, cfm NC	4266 13	5688 20	7110 26	8532 31	9954 35	11376 38	12798 41	14220 44	15642 47	
48x46	15.33	14.85	Airflow, cfm NC	4455 13	5940 20	7425 26	8910 31	10395 35	11880 39	13365 42	14850 44	16335 47	
48x48	16	15.5	Airflow, cfm NC	4650 13	6200 21	7750 26	9300 31	10850 35	12400 39	13950 42	15500 45	17050 47	

• Static pressures are negative, in inches of water, measured per ANSI/ASHRAE Standard 70-2006

• NC based on room absorption of 10 dB, re 10⁻¹² watts, measured per ANSI/ASHRAE Standard 70-2006