

55F, 56F / 0° DEFLECTION

PERFORMANCE BASED ON NOMINAL SIZES SHOWN IN BOLD

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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 0.023	500 0.016 0.036	600 0.022 0.052	700 0.031 0.071	800 0.040 0.094	1000 0.062 0.144	1200 0.090 0.208	1400 0.122 0.283	
6x6	0.25	0.19	Airflow, cfm NC	57 -	76 -	95 -	114 14	133 18	152 22	190 28	228 34	266 38	
8x6	0.33	0.26	Airflow, cfm NC	78 -	104 -	130 -	156 16	182 20	208 24	260 30	312 35	364 39	
10x6	0.42	0.34	Airflow, cfm NC	102 -	136 -	170 12	204 17	238 21	272 25	340 31	408 36	476 40	
8x8	0.44	0.37	Airflow, cfm NC	111 -	148 -	185 12	222 17	259 21	296 25	370 31	444 36	518 41	
12x6	0.50	0.41	Airflow, cfm NC	123 -	164 -	205 12	246 18	287 22	328 26	410 32	492 37	574 41	
14x6	0.58	0.48	Airflow, cfm NC	144 -	192 -	240 13	288 18	336 22	384 26	480 32	576 38	672 42	
16x6			Airflow, cfm NC	171 -	228 -	285 14	342 19	399 23	456 27	570 33	684 38	798 43	
12x8	0.67	0.57	Airflow, cfm NC	177 -	236 -	295 14	354 19	413 23	472 27	590 33	708 38	826 43	
10x10	0.69	0.59	Airflow, cfm NC	189 -	252 -	315 14	378 19	441 24	504 27	630 34	756 39	882 43	
20x6			Airflow, cfm NC	216 -	288 -	360 15	432 20	504 24	576 28	720 34	864 39	1008 44	
12x10	0.83	0.72	Airflow, cfm NC	231 -	308 -	385 15	462 20	539 25	616 28	770 35	924 40	1078 44	
24x6			Airflow, cfm NC	264 -	352 -	440 16	528 21	616 25	704 29	880 35	1056 40	1232 45	
12x12	1.00	0.88	Airflow, cfm NC	333 -	444 -	555 17	666 22	777 26	888 30	1110 36	1332 41	1554 46	
18x10	1.25	1.11	Airflow, cfm NC	366 -	488 11	610 17	732 22	854 27	976 30	1220 37	1464 42	1708 46	
14x14	1.36	1.22	Airflow, cfm NC	405 -	540 11	675 18	810 23	945 27	1080 31	1350 37	1620 42	1890 46	
36x6			Airflow, cfm NC	411 -	548 11	685 18	822 23	959 27	1096 31	1370 37	1644 42	1918 46	
22x10	1.53	1.37	Airflow, cfm NC	447 -	596 12	745 18	894 23	1043 27	1192 31	1490 37	1788 42	2086 47	
30x8			Airflow, cfm NC	477 -	636 12	795 18	954 23	1113 28	1272 31	1590 38	1908 43	2226 47	
24x10	1.67	1.49	Airflow, cfm NC	486 -	648 12	810 18	972 23	1134 28	1296 32	1620 38	1944 43	2268 47	
16x16	1.78	1.62	Airflow, cfm NC	546 -	728 13	910 19	1092 24	1274 28	1456 32	1820 38	2184 43	2548 48	
24x12	2.00	1.82	Airflow, cfm NC	621 -	828 13	1035 19	1242 25	1449 29	1656 33	2070 39	2484 44	2898 48	
18x18	2.25	2.07	Airflow, cfm NC	642 -	856 13	1070 20	1284 25	1498 29	1712 33	2140 39	2568 44	2996 48	
24x14	2.33	2.14	Airflow, cfm NC	687 -	916 14	1145 20	1374 25	1603 29	1832 33	2290 39	2748 44	3206 49	
30x12	2.50	2.29	Airflow, cfm NC	738 -	984 14	1230 20	1476 25	1722 30	1968 33	2460 40	2952 45	3444 49	
20x20	2.78	2.57	Airflow, cfm NC	771 -	1028 14	1285 20	1542 25	1799 30	2056 34	2570 40	3084 45	3598 49	
36x12	3.00	2.75	Airflow, cfm NC	825 -	1100 14	1375 21	1650 26	1925 30	2200 34	2750 40	3300 45	3850 49	
30x16	3.33	3.11	Airflow, cfm NC	942 -	1256 15	1570 21	1884 26	2198 31	2512 34	3140 41	3768 46	4396 50	
22x22	3.36	3.14	Airflow, cfm NC	966 -	1288 15	1610 21	1932 26	2254 34	2576 34	3220 41	3864 46	4508 50	
42x12	3.50	3.22	Airflow, cfm NC	1029 -	1372 15	1715 22	2058 27	2401 31	2744 35	3430 41	4116 46	4802 50	
24x22	3.67	3.43	Airflow, cfm NC	1050 -	1400 15	1750 22	2100 27	2450 31	2800 35	3500 41	4200 46	4900 51	
30x18	3.75	3.5	Airflow, cfm NC										

NC-50

- 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



55F, 56F / 0° DEFLECTION (continued)
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		NC20		NC-30		NC-40		NC-50	
				300 0.006 0.013	400 0.010 0.023	500 0.016 0.036	600 0.022 0.052	700 0.031 0.071	800 0.040 0.094	1000 0.062 0.144	1200 0.090 0.208	1400 0.122 0.283	
48x12 24x24	4.00	3.75	Airflow, cfm NC	1125 -	1500 16	1875 22	2250 27	2625 31	3000 35	3750 41	4500 47	5250 51	
36x18	4.50	4.22	Airflow, cfm NC	1266 -	1688 16	2110 23	2532 28	2954 32	3376 36	4220 42	5064 47	5908 51	
36x20 30x24	5.00	4.71	Airflow, cfm NC	1413 -	1884 17	2355 23	2826 28	3297 32	3768 36	4710 42	5652 47	6594 52	
42x18	5.25	4.94	Airflow, cfm NC	1482 -	1976 17	2470 23	2964 28	3458 33	3952 36	4940 43	5928 48	6916 52	
28x28	5.44	5.16	Airflow, cfm NC	1548 -	2064 17	2580 23	3096 28	3612 33	4128 37	5160 43	6192 48	7224 52	
42x20 30x28	5.83	5.51	Airflow, cfm NC	1653 -	2204 17	2755 24	3306 29	3857 33	4408 37	5510 43	6612 48	7714 52	
48x18 36x24	6.00	5.66	Airflow, cfm NC	1698 -	2264 18	2830 24	3396 29	3962 33	4528 37	5660 43	6792 48	7924 53	
30x30	6.25	5.94	Airflow, cfm NC	1782 -	2376 18	2970 24	3564 29	4158 33	4752 37	5940 43	7128 49	8316 53	
42x24 36x28	7.00	6.66	Airflow, cfm NC	1998 -	2664 18	3330 25	3996 30	4662 34	5328 38	6660 44	7992 49	9324 53	
46x22	7.03	6.68	Airflow, cfm NC	2004 -	2672 18	3340 25	4008 30	4676 34	5344 38	6680 44	8016 49	9352 53	
32x32	7.11	6.78	Airflow, cfm NC	2034 -	2712 18	3390 25	4068 30	4746 34	5424 38	6780 44	8136 49	9492 53	
36x30	7.50	7.16	Airflow, cfm NC	2148 11	2864 19	3580 25	4296 30	5012 34	5728 38	7160 44	8592 49	10024 54	
48x24 36x32	8.00	7.63	Airflow, cfm NC	2289 11	3052 19	3815 25	4578 30	5341 35	6104 38	7630 44	9156 50	10682 54	
34x34	8.03	7.68	Airflow, cfm NC	2304 11	3072 19	3840 25	4608 30	5376 35	6144 38	7680 45	9216 50	10752 54	
36x34	8.50	8.14	Airflow, cfm NC	2442 11	3256 19	4070 25	4884 30	5698 35	6512 39	8140 45	9768 50	11396 54	
42x30	8.75	8.38	Airflow, cfm NC	2514 11	3352 19	4190 26	5028 31	5866 35	6704 39	8380 45	10056 50	11732 54	
36x36	9.00	8.63	Airflow, cfm NC	2589 11	3452 19	4315 26	5178 31	6041 35	6904 39	8630 45	10356 50	12082 54	
42x34 48x30	10.00	9.6	Airflow, cfm NC	2880 12	3840 20	4800 26	5760 31	6720 36	7680 39	9600 45	11520 51	13440 55	
38x38	10.03	9.64	Airflow, cfm NC	2892 12	3856 20	4820 26	5784 31	6748 36	7712 39	9640 46	11568 51	13496 55	
42x36	10.50	10.1	Airflow, cfm NC	3030 12	4040 20	5050 26	6060 31	7070 36	8080 39	10100 46	12120 51	14140 55	
46x34	10.86	10.45	Airflow, cfm NC	3135 12	4180 20	5225 26	6270 32	7315 36	8360 40	10450 46	12540 51	14630 55	
42x38	11.08	10.67	Airflow, cfm NC	3201 12	4268 20	5335 27	6402 32	7469 36	8536 40	10670 46	12804 51	14938 55	
40x40	11.11	10.7	Airflow, cfm NC	3210 12	4280 20	5350 27	6420 32	7490 36	8560 40	10700 46	12840 51	14980 55	
48x36	12.00	11.57	Airflow, cfm NC	3471 13	4628 21	5785 27	6942 32	8099 36	9256 40	11570 46	13884 51	16198 56	
42x42	12.25	11.82	Airflow, cfm NC	3546 13	4728 21	5910 27	7092 32	8274 36	9456 40	11820 46	14184 51	16548 56	
44x44	13.44	12.99	Airflow, cfm NC	3897 13	5196 21	6495 27	7794 33	9093 37	10392 41	12990 47	15588 52	18186 56	
48x42	14.00	13.54	Airflow, cfm NC	4062 13	5416 21	6770 28	8124 33	9478 37	10832 41	13540 47	16248 52	18956 56	
46x46	14.69	14.22	Airflow, cfm NC	4266 14	5688 22	7110 28	8532 33	9954 37	11376 41	14220 47	17064 52	19908 57	
48x46	15.33	14.85	Airflow, cfm NC	4455 14	5940 22	7425 28	8910 33	10395 37	11880 41	14850 47	17820 52	20790 57	
48x48	16.00	15.50	Airflow, cfm NC	4650 14	6200 22	7750 28	9300 33	10850 38	12400 41	15500 48	18600 53	21700 57	

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