

25R / ½" / 30° 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		NC-50	
				300 0.006 0.023	400 0.010 0.041	500 0.016 0.064	600 0.022 0.092	700 0.031 0.126	800 0.040 0.164	900 0.051 0.208	1000 0.062 0.257	1100 0.075 0.311	
6x6	0.25	0.19	Airflow, cfm NC	57 -	76 -	95 13	114 21	133 27	152 33	171 38	190 43	209 47	
8x6	0.33	0.26	Airflow, cfm NC	78 -	104 -	130 14	156 22	182 29	208 34	234 40	260 44	286 48	
10x6	0.42	0.34	Airflow, cfm NC	102 -	136 -	170 15	204 23	238 30	272 36	306 41	340 45	374 49	
8x8	0.44	0.37	Airflow, cfm NC	111 -	148 -	185 16	222 23	259 30	296 36	333 41	370 46	407 50	
12x6	0.50	0.41	Airflow, cfm NC	123 -	164 -	205 16	246 24	287 31	328 36	369 41	410 46	451 50	
14x6	0.58	0.48	Airflow, cfm NC	144 -	192 -	240 17	288 25	336 31	384 37	432 42	480 47	528 51	
16x6			Airflow, cfm	171	228	285	342	399	456	513	570	627	
12x8	0.67	0.57	NC	-	-	17	25	32	38	43	47	52	
10x10	0.69	0.59	Airflow, cfm NC	177 -	236 -	295 18	354 26	413 32	472 38	531 43	590 48	649 52	
18x6	0.75	0.63	Airflow, cfm NC	189 -	252 -	315 18	378 26	441 32	504 38	567 43	630 48	693 52	
20x6			Airflow, cfm	216	288	360	432	504	576	648	720	792	
12x10	0.83	0.72	NC	-	-	19	26	33	39	44	48	53	
22x6	0.92	0.77	Airflow, cfm NC	231 -	308 -	385 19	462 27	539 33	616 39	693 44	770 49	847 53	
24x6			Airflow, cfm	264	352	440	528	616	704	792	880	968	
12x12	1.00	0.88	NC	-	-	19	27	34	40	45	49	53	
30x6			Airflow, cfm	333	444	555	666	777	888	999	1110	1221	
18x10	1.25	1.11	NC	-	11	20	28	35	41	46	50	54	
14x14	1.36	1.22	Airflow, cfm NC	366 -	488 11	610 21	732 29	854 35	976 41	1098 46	1220 51	1342 55	
36x6			Airflow, cfm	405	540	675	810	945	1080	1215	1350	1485	
18x12	1.50	1.35	NC	-	12	21	29	36	42	47	51	55	
22x10	1.53	1.37	Airflow, cfm NC	411 -	548 12	685 21	822 29	959 36	1096 42	1233 47	1370 51	1507 55	
30x8			Airflow, cfm	447	596	745	894	1043	1192	1341	1490	1639	
24x10	1.67	1.49	NC	-	12	22	30	36	42	47	52	56	
42x6			Airflow, cfm	477	636	795	954	1113	1272	1431	1590	1749	
18x14	1.75	1.59	NC	-	12	22	30	36	42	47	52	56	
16x16	1.78	1.62	Airflow, cfm NC	486 -	648 12	810 22	972 30	1134 37	1296 42	1458 47	1620 52	1782 56	
24x12	2.00	1.82	Airflow, cfm NC	546 -	728 13	910 23	1092 30	1274 37	1456 43	1638 48	1820 53	2002 57	
18x18	2.25	2.07	Airflow, cfm NC	621 -	828 13	1035 23	1242 31	1449 38	1656 43	1863 49	2070 53	2277 57	
24x14	2.33	2.14	Airflow, cfm NC	642 -	856 14	1070 23	1284 31	1498 38	1712 44	1926 49	2140 53	2354 57	
30x12	2.50	2.29	Airflow, cfm NC	687 -	916 14	1145 24	1374 31	1603 38	1832 44	2061 49	2290 54	2519 58	
24x16	2.67	2.46	Airflow, cfm NC	738 -	984 14	1230 24	1476 32	1722 38	1968 44	2214 49	2460 54	2706 58	
20x20	2.78	2.57	Airflow, cfm NC	771 -	1028 14	1285 24	1542 32	1799 39	2056 44	2313 49	2570 54	2827 58	
36x12	3.00	2.75	Airflow, cfm NC	825 -	1100 15	1375 24	1650 32	1925 39	2200 45	2475 50	2750 54	3025 58	
30x16			Airflow, cfm	933	1244	1555	1866	2177	2488	2799	3110	3421	
24x20	3.33	3.11	NC	-	15	25	33	39	45	50	55	59	
22x22	3.36	3.14	Airflow, cfm NC	942 -	1256 15	1570 25	1884 33	2198 39	2512 45	2826 50	3140 55	3454 59	
42x12			Airflow, cfm	966	1288	1610	1932	2254	2576	2898	3220	3542	
36x14	3.50	3.22	NC	-	15	25	33	40	45	50	55	59	
24x22	3.67	3.43	Airflow, cfm NC	1029 -	1372 16	1715 25	2058 33	2401 40	2744 46	3087 51	3430 55	3773 59	
30x18	3.75	3.5	Airflow, cfm NC	1050 -	1400 16	1750 25	2100 33	2450 40	2800 46	3150 51	3500 55	3850 59	

• 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

25R / 1/2" / 30° 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		NC-20		NC-30		NC-40		NC-50		NC-60	
				300 0.006 0.023	400 0.010 0.041	500 0.016 0.064	600 0.022 0.092	700 0.031 0.126	800 0.040 0.164	900 0.051 0.208	1000 0.062 0.257	1100 0.075 0.311			
48x12 24x24	4.00	3.75	Airflow, cfm NC	1125 -	1500 16	1875 26	2250 34	2625 40	3000 46	3375 51	3750 56	4125 60			
36x18	4.50	4.22	Airflow, cfm NC	1266 -	1688 17	2110 26	2532 34	2954 41	3376 47	3798 52	4220 56	4642 60			
36x20 30x24	5.00	4.71	Airflow, cfm NC	1413 -	1884 17	2355 27	2826 35	3297 41	3768 47	4239 52	4710 57	5181 61			
42x18	5.25	4.94	Airflow, cfm NC	1482 -	1976 17	2470 27	2964 35	3458 41	3952 47	4446 52	4940 57	5434 61			
28x28	5.44	5.16	Airflow, cfm NC	1548 -	2064 17	2580 27	3096 35	3612 42	4128 47	4644 52	5160 57	5676 61			
42x20 30x28	5.83	5.51	Airflow, cfm NC	1653 -	2204 18	2755 27	3306 35	3857 42	4408 48	4959 53	5510 57	6061 61			
48x18 36x24	6.00	5.66	Airflow, cfm NC	1698 -	2264 18	2830 27	3396 35	3962 42	4528 48	5094 53	5660 57	6226 62			
30x30	6.25	5.94	Airflow, cfm NC	1782 -	2376 18	2970 28	3564 36	4158 42	4752 48	5346 53	5940 58	6534 62			
42x24 36x28	7.00	6.66	Airflow, cfm NC	1998 -	2664 19	3330 28	3996 36	4662 43	5328 48	5994 54	6660 58	7326 62			
46x22	7.03	6.68	Airflow, cfm NC	2004 -	2672 19	3340 28	4008 36	4676 43	5344 49	6012 54	6680 58	7348 62			
32x32	7.11	6.78	Airflow, cfm NC	2034 -	2712 19	3390 28	4068 36	4746 43	5424 49	6102 54	6780 58	7458 62			
36x30	7.50	7.16	Airflow, cfm NC	2148 -	2864 19	3580 28	4296 36	5012 43	5728 49	6444 54	7160 58	7876 63			
48x24 36x32	8.00	7.63	Airflow, cfm NC	2289 -	3052 19	3815 29	4578 37	5341 43	6104 49	6867 54	7630 59	8393 63			
34x34	8.03	7.68	Airflow, cfm NC	2304 -	3072 19	3840 29	4608 37	5376 43	6144 49	6912 54	7680 59	8448 63			
36x34	8.50	8.14	Airflow, cfm NC	2442 -	3256 19	4070 29	4884 37	5698 44	6512 49	7326 54	8140 59	8954 63			
42x30	8.75	8.38	Airflow, cfm NC	2514 -	3352 20	4190 29	5028 37	5866 44	6704 49	7542 55	8380 59	9218 63			
36x36	9.00	8.63	Airflow, cfm NC	2589 -	3452 20	4315 29	5178 37	6041 44	6904 50	7767 55	8630 59	9493 63			
42x34 48x30	10.00	9.6	Airflow, cfm NC	2880 -	3840 20	4800 30	5760 38	6720 44	7680 50	8640 55	9600 60	10560 64			
38x38	10.03	9.64	Airflow, cfm NC	2892 -	3856 20	4820 30	5784 38	6748 44	7712 50	8676 55	9640 60	10604 64			
42x36	10.50	10.1	Airflow, cfm NC	3030 -	4040 20	5050 30	6060 38	7070 45	8080 50	9090 55	10100 60	11110 64			
46x34	10.86	10.45	Airflow, cfm NC	3135 -	4180 20	5225 30	6270 38	7315 45	8360 50	9405 56	10450 60	11495 64			
42x38	11.08	10.67	Airflow, cfm NC	3201 -	4268 21	5335 30	6402 38	7469 45	8536 51	9603 56	10670 60	11737 64			
40x40	11.11	10.7	Airflow, cfm NC	3210 -	4280 21	5350 30	6420 38	7490 45	8560 51	9630 56	10700 60	11770 64			
48x36	12.00	11.57	Airflow, cfm NC	3471 -	4628 21	5785 31	6942 38	8099 45	9256 51	10413 56	11570 61	12727 65			
42x42	12.25	11.82	Airflow, cfm NC	3546 -	4728 21	5910 31	7092 39	8274 45	9456 51	10638 56	11820 61	13002 65			
44x44	13.44	12.99	Airflow, cfm NC	3897 -	5196 21	6495 31	7794 39	9093 46	10392 51	11691 56	12990 61	14289 65			
48x42	14.00	13.54	Airflow, cfm NC	4062 -	5416 22	6770 31	8124 39	9478 46	10832 52	12186 57	13540 61	14894 65			
46x46	14.69	14.22	Airflow, cfm NC	4266 -	5688 22	7110 31	8532 39	9954 46	11376 52	12798 57	14220 61	15642 66			
48x46	15.33	14.85	Airflow, cfm NC	4455 -	5940 22	7425 32	8910 40	10395 46	11880 52	13365 57	14850 62	16335 66			
48x48	16.00	15.50	Airflow, cfm NC	4650 -	6200 22	7750 32	9300 40	10850 46	12400 52	13950 57	15500 62	17050 66			

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