



# ENGINEERING DATA

## CRE, CR, SCRE

Nominal Duct Size (in.)	Nominal Duct Area (ft. <sup>2</sup> )	Core Area (ft. <sup>2</sup> )	Core Velocity (fpm)	300	400	500	600	700	800	1000	1200	1400
			Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122
			1" Neg. Static Pressure	0.013	0.024	0.037	0.054	0.073	0.096	0.150	0.216	0.294
			1/2" Neg. Static Pressure	0.013	0.024	0.037	0.053	0.073	0.095	0.148	0.213	0.290
6x6	0.25	0.19	Airflow (CFM)	57	76	95	114	133	152	160	228	266
			NC	-	-	-	11	16	20	28	34	39
8x6	0.33	0.26	Airflow (CFM)	78	104	130	156	182	208	260	312	364
			NC	-	-	-	12	17	22	29	35	40
10x6	0.42	0.34	Airflow (CFM)	102	136	170	204	238	272	340	408	476
			NC	-	-	-	13	19	23	30	36	41
8x8	0.44	0.37	Airflow (CFM)	111	148	185	222	259	296	370	444	518
			NC	-	-	-	14	19	23	31	37	42
12x6	0.5	0.41	Airflow (CFM)	123	164	205	246	287	328	410	492	574
			NC	-	-	-	14	19	24	31	37	42
14x6	0.58	0.48	Airflow (CFM)	144	192	240	288	336	384	480	576	672
			NC	-	-	-	15	20	24	32	38	43
16x6 12x8	0.67	0.57	Airflow (CFM)	171	228	285	342	399	456	570	684	798
			NC	-	-	-	16	21	25	33	38	44
10x10	0.69	0.59	Airflow (CFM)	177	236	295	354	413	472	590	708	826
			NC	-	-	-	16	21	25	33	39	44
18x6	0.75	0.63	Airflow (CFM)	189	252	315	378	441	504	630	756	882
			NC	-	-	-	16	21	26	33	39	44
20x6 12x10	0.83	0.72	Airflow (CFM)	216	288	360	432	504	576	720	864	1008
			NC	-	-	11	17	22	26	34	40	45

Notes:

1. Static pressures are negative, in.wc, tested in accordance with ANSI/ASHRAE 70-1991.
2. NC based on room absorption of 10dB, re 10<sup>-12</sup> watts, tested in accordance with ANSI/ASHRAE 70-1991.
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			1" Neg. Static Pressure	0.013	0.024	0.037	0.054	0.073	0.096	0.150	0.216	0.294
			1/2" Neg. Static Pressure	0.013	0.024	0.037	0.053	0.073	0.095	0.148	0.213	0.290
22x6	0.92	0.77	Airflow (CFM) NC	231 -	308 -	385 11	462 17	539 22	616 26	770 34	924 40	1078 45
24x6 12x12	1.00	0.88	Airflow (CFM) NC	264 -	352 -	440 12	528 18	616 23	704 27	880 34	1056 40	1232 45
30x6 18x10	1.25	1.11	Airflow (CFM) NC	333 -	444 -	555 13	666 19	777 24	888 28	1110 35	1332 41	1554 46
14x14	1.36	1.22	Airflow (CFM) NC	366 -	488 -	610 13	732 19	854 24	976 28	1220 36	1464 42	1708 47
36x6	1.5	1.35	Airflow (CFM) NC	405 -	540 -	675 14	810 19	945 25	1080 29	1350 36	1620 42	1890 47
22x10	1.53	1.37	Airflow (CFM) NC	411 -	548 -	685 14	822 20	959 25	1096 29	1370 36	1644 42	1918 47
30x8 24x10	1.67	1.49	Airflow (CFM) NC	447 -	596 -	745 14	894 20	1043 25	1192 29	1490 37	1788 43	2086 48
42x6	1.75	1.59	Airflow (CFM) NC	477 -	636 -	795 14	954 20	1113 25	1272 30	1590 37	1908 43	2226 48
16x16	1.78	1.62	Airflow (CFM) NC	486 -	648 -	810 14	972 20	1134 25	1296 30	1620 37	1944 43	2268 48
24x12 18x16	2	1.82	Airflow (CFM) NC	546 -	728 -	910 15	1092 21	1274 26	1456 30	1820 38	2184 44	2548 49

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			Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122
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			1/2" Neg. Static Pressure	0.013	0.024	0.037	0.053	0.073	0.095	0.148	0.213	0.290

18x18	2.25	2.07	Airflow (CFM) NC	621 -	828 -	1035 15	1242 21	1449 26	1656 31	2070 38	2484 44	2898 49
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24x14	2.33	2.14	Airflow (CFM) NC	642 -	856 -	1070 16	1284 21	1498 27	1712 31	2140 38	2568 44	2996 49
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30x12	2.50	2.29	Airflow (CFM) NC	687 -	916 -	1145 16	1374 22	1603 27	1832 31	2290 39	2748 45	3206 50
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24x16	2.67	2.46	Airflow (CFM) NC	738 -	984 -	1230 16	1476 22	1722 27	1968 32	2460 39	2952 45	3444 50
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20x20	2.78	2.57	Airflow (CFM) NC	771 -	1028 -	1285 16	1542 22	1799 27	2056 32	2570 39	3084 45	3598 50
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36x12	3.00	2.75	Airflow (CFM) NC	825 -	1100 -	1375 17	1650 23	1925 28	2200 32	2750 39	3300 45	3850 50
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30x16 24x20	3.33	3.11	Airflow (CFM) NC	933 -	1244 -	1555 17	1866 23	2177 28	2488 33	3110 40	3732 46	4354 51
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22x22	3.36	3.14	Airflow (CFM) NC	942 -	1256 -	1570 17	1884 23	2198 28	2512 33	3140 40	3768 46	4396 51
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42x12	3.5	3.22	Airflow (CFM) NC	966 -	1288 -	1610 17	1932 23	2254 28	2576 33	3220 40	3864 46	4508 51
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24x22	3.67	3.43	Airflow (CFM) NC	1029 -	1372 -	1715 18	2058 24	2401 29	2744 33	3430 40	4116 46	4802 51
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Grilles & Registers



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			Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122
			1" Neg. Static Pressure	0.013	0.024	0.037	0.054	0.073	0.096	0.150	0.216	0.294
			1/2" Neg. Static Pressure	0.013	0.024	0.037	0.053	0.073	0.095	0.148	0.213	0.290
30x18	3.75	3.50	Airflow (CFM) NC	1050 -	1400 -	1750 18	2100 24	2450 29	2800 33	3500 40	4200 46	4900 51
48x12 24x24	4.00	3.75	Airflow (CFM) NC	1125 -	1500 11	1875 18	2250 24	2625 29	3000 33	3750 41	4500 47	5250 52
36x18	4.50	4.22	Airflow (CFM) NC	1266 -	1688 11	2110 18	2532 24	2954 29	3376 34	4220 41	5064 47	5908 52
36x20 30x24	5.00	4.71	Airflow (CFM) NC	1413 -	1884 12	2355 19	2826 25	3297 30	3768 34	4710 42	5652 48	6594 53
42x18	5.25	4.94	Airflow (CFM) NC	1482 -	1976 12	2470 19	2964 25	3458 30	3952 35	4940 42	5928 48	6916 53
28x28	5.44	5.16	Airflow (CFM) NC	1548 -	2064 12	2580 19	3096 25	3612 30	4128 35	5160 42	6192 48	7224 53
42x20 30x28	5.83	5.51	Airflow (CFM) NC	1653 -	2204 12	2755 20	3306 26	3857 31	4408 35	5510 42	6612 48	7714 53
48x18 36x24	6.00	5.66	Airflow (CFM) NC	1698 -	2264 12	2830 20	3396 26	3962 31	4528 35	5660 42	6792 48	7924 54
30x30	6.25	5.94	Airflow (CFM) NC	1782 -	2376 13	2970 20	3564 26	4158 31	4752 35	5940 43	7128 49	8316 54
42x24 36x28	7.00	6.66	Airflow (CFM) NC	1998 -	2664 13	3330 20	3996 26	4662 31	5328 36	6660 43	7992 49	9324 54

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			Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122
			1" Neg. Static Pressure	0.013	0.024	0.037	0.054	0.073	0.096	0.150	0.216	0.294
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46x22	7.03	6.68	Airflow (CFM) NC	2004 -	2672 13	3340 20	4008 26	4676 31	5344 36	6680 43	8016 49	9352 54
32x32	7.11	6.78	Airflow (CFM) NC	2034 -	2712 13	3390 21	4068 26	4746 32	5424 36	6780 43	8136 49	9492 54
36x30	7.50	7.16	Airflow (CFM) NC	2148 -	2864 13	3580 21	4296 27	5012 32	5728 36	7160 43	8592 49	10024 55
48x24 36x32	8.00	7.63	Airflow (CFM) NC	2289 -	3052 14	3815 21	4578 27	5341 32	6104 36	7630 44	9156 50	10682 55
34x34	8.03	7.68	Airflow (CFM) NC	2304 -	3072 14	3840 21	4608 27	5376 32	6144 36	7680 44	9216 50	10752 55
36x34	8.50	8.14	Airflow (CFM) NC	2442 -	3256 14	4070 21	4884 27	5698 32	6512 37	8140 44	9768 50	11396 55
42x30	8.75	8.38	Airflow (CFM) NC	2514 -	3352 14	4190 21	5028 27	5866 32	6704 37	8380 44	10056 50	11732 55
36x36	9.00	8.63	Airflow (CFM) NC	2589 -	3452 14	4315 22	5178 28	6041 33	6904 37	8630 44	10356 50	12082 55
42x34 48x30	10.00	9.6	Airflow (CFM) NC	2880 -	3840 15	4800 22	5760 28	6720 33	7680 37	9600 45	11520 51	13440 56
38x38	10.03	9.64	Airflow (CFM) NC	2892 -	3856 15	4820 22	5784 28	6748 33	7712 37	9640 45	11568 51	13496 56
42x36	10.50	10.1	Airflow (CFM) NC	3030 -	4040 15	5050 22	6060 28	7070 33	8080 38	10100 45	12120 51	14140 56
46x34	10.86	10.45	Airflow (CFM) NC	3135 -	4180 15	5225 22	6270 28	7315 33	8360 38	10450 45	12540 51	14630 56

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