

ENGINEERING DATA

CRE, CR, SCRE



Nominal Duct Size (in.)	Nominal Duct Area (ft. ²)	Core Area (ft. ²)	Core Velocity (FPM)	300	400	500	600	700	800	1000	1200	1400
			Velocity Pressure	0.006	0.01	0.016	0.022	0.031	0.04	0.062	0.09	0.122
			1" Neg. Static Pressure	0.013	0.024	0.037	0.054	0.073	0.096	0.15	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	0.29

6x6	0.25	0.19	Airflow, cfm NC	57 -	76 -	95 -	114 11	133 16	152 20	160 28	228 34	266 39
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8x6	0.33	0.26	Airflow, cfm NC	78 -	104 -	130 -	156 12	182 17	208 22	260 29	312 35	364 40
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10x6	0.42	0.34	Airflow, cfm NC	102 -	136 -	170 -	204 13	238 19	272 23	340 30	408 36	476 41
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8x8	0.44	0.37	Airflow, cfm NC	111 -	148 -	185 -	222 14	259 19	296 23	370 31	444 37	518 42
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12x6	0.5	0.41	Airflow, cfm NC	123 -	164 -	205 -	246 14	287 19	328 24	410 31	492 37	574 42
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14x6	0.58	0.48	Airflow, cfm NC	144 -	192 -	240 -	288 15	336 20	384 24	480 32	576 38	672 43
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16x6 12x8	0.67	0.57	Airflow, cfm NC	171 -	228 -	285 -	342 16	399 21	456 25	570 33	684 38	798 44
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10x10	0.69	0.59	Airflow, cfm NC	177 -	236 -	295 -	354 16	413 21	472 25	590 33	708 39	826 44
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18x6	0.75	0.63	Airflow, cfm NC	189 -	252 -	315 -	378 16	441 21	504 26	630 33	756 39	882 44
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20x6 12x10	0.83	0.72	Airflow, cfm NC	216 -	288 -	360 11	432 17	504 22	576 26	720 34	864 40	1008 45
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Notes:

1. Static pressures are negative, in inches of water, measured per ANSI/ASHRAE 70-1991.
2. NC based on room absorption of 10dB, re 10⁻¹² watts, measured per ANSI/ASHRAE 70-1991.
3. Dash "-" indicates NC value less than 10

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Nominal Duct Size (in.)	Nominal Duct Area (ft. ²)	Core Area (ft. ²)	Core Velocity (FPM)	300	400	500	600	700	800	1000	1200	1400
			Velocity Pressure	0.006	0.01	0.016	0.022	0.031	0.04	0.062	0.09	0.122
			1" Neg. Static Pressure	0.013	0.024	0.037	0.054	0.073	0.096	0.15	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	0.29

22x6	0.92	0.77	Airflow, cfm NC	231 -	308 -	385 11	462 17	539 22	616 26	770 34	924 40	1078 45
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24x6 12x12	1	0.88	Airflow, cfm NC	264 -	352 -	440 12	528 18	616 23	704 27	880 34	1056 40	1232 45
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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
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14x14	1.36	1.22	Airflow, cfm NC	366 -	488 -	610 13	732 19	854 24	976 28	1220 36	1464 42	1708 47
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36x6 18x12	1.5	1.35	Airflow, cfm NC	405 -	540 -	675 14	810 19	945 25	1080 29	1350 36	1620 42	1890 47
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22x10	1.53	1.37	Airflow, cfm NC	411 -	548 -	685 14	822 20	959 25	1096 29	1370 36	1644 42	1918 47
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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
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42x6 18x14	1.75	1.59	Airflow, cfm NC	477 -	636 -	795 14	954 20	1113 25	1272 30	1590 37	1908 43	2226 48
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16x16	1.78	1.62	Airflow, cfm NC	486 -	648 -	810 14	972 20	1134 25	1296 30	1620 37	1944 43	2268 48
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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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Notes:

1. Static pressures are negative, in inches of water, measured per ANSI/ASHRAE 70-1991.
2. NC based on room absorption of 10dB, re 10⁻¹² watts, measured per ANSI/ASHRAE 70-1991.
3. Dash "-" indicates NC value less than 10

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Nominal Duct Size (in.)	Nominal Duct Area (ft. ²)	Core Area (ft. ²)	Core Velocity (FPM)	300	400	500	600	700	800	1000	1200	1400
			Velocity Pressure	0.006	0.01	0.016	0.022	0.031	0.04	0.062	0.09	0.122
			1" Neg. Static Pressure	0.013	0.024	0.037	0.054	0.073	0.096	0.15	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	0.29

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	2.5	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	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 36x14	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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Notes:

1. Static pressures are negative, in inches of water, measured per ANSI/ASHRAE 70-1991.
2. NC based on room absorption of 10dB, re 10⁻¹² watts, measured per ANSI/ASHRAE 70-1991.
3. Dash "-" indicates NC value less than 10

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Nominal Duct Size (in.)	Nominal Duct Area (ft. ²)	Core Area (ft. ²)	Core Velocity (FPM)									
			300	400	500	600	700	800	1000	1200	1400	
			Velocity Pressure									
			1" Neg. Static Pressure									
			0.006	0.01	0.016	0.022	0.031	0.04	0.062	0.09	0.122	
			0.013	0.024	0.037	0.054	0.073	0.096	0.15	0.216	0.294	
			0.013	0.024	0.037	0.053	0.073	0.095	0.148	0.213	0.29	

Nominal Duct Size (in.)	Nominal Duct Area (ft. ²)	Core Area (ft. ²)	Airflow, cfm NC	300	400	500	600	700	800	1000	1200	1400
30x18	3.75	3.5	-	1050	1400	1750	2100	2450	2800	3500	4200	4900
			-	-	-	18	24	29	33	40	46	51

Nominal Duct Size (in.)	Nominal Duct Area (ft. ²)	Core Area (ft. ²)	Airflow, cfm NC	300	400	500	600	700	800	1000	1200	1400
48x12 24x24	4	3.75	-	1125	1500	1875	2250	2625	3000	3750	4500	5250
			-	-	11	18	24	29	33	41	47	52

Nominal Duct Size (in.)	Nominal Duct Area (ft. ²)	Core Area (ft. ²)	Airflow, cfm NC	300	400	500	600	700	800	1000	1200	1400
36x18	4.5	4.22	-	1266	1688	2110	2532	2954	3376	4220	5064	5908
			-	-	11	18	24	29	34	41	47	52

Nominal Duct Size (in.)	Nominal Duct Area (ft. ²)	Core Area (ft. ²)	Airflow, cfm NC	300	400	500	600	700	800	1000	1200	1400
36x20 30x24	5	4.71	-	1413	1884	2355	2826	3297	3768	4710	5652	6594
			-	-	12	19	25	30	34	42	48	53

Nominal Duct Size (in.)	Nominal Duct Area (ft. ²)	Core Area (ft. ²)	Airflow, cfm NC	300	400	500	600	700	800	1000	1200	1400
42x18	5.25	4.94	-	1482	1976	2470	2964	3458	3952	4940	5928	6916
			-	-	12	19	25	30	35	42	48	53

Nominal Duct Size (in.)	Nominal Duct Area (ft. ²)	Core Area (ft. ²)	Airflow, cfm NC	300	400	500	600	700	800	1000	1200	1400
28x28	5.44	5.16	-	1548	2064	2580	3096	3612	4128	5160	6192	7224
			-	-	12	19	25	30	35	42	48	53

Nominal Duct Size (in.)	Nominal Duct Area (ft. ²)	Core Area (ft. ²)	Airflow, cfm NC	300	400	500	600	700	800	1000	1200	1400
42x20 30x28	5.83	5.51	-	1653	2204	2755	3306	3857	4408	5510	6612	7714
			-	-	12	20	26	31	35	42	48	53

Nominal Duct Size (in.)	Nominal Duct Area (ft. ²)	Core Area (ft. ²)	Airflow, cfm NC	300	400	500	600	700	800	1000	1200	1400
48x18 36x24	6	5.66	-	1698	2264	2830	3396	3962	4528	5660	6792	7924
			-	-	12	20	26	31	35	42	48	54

Nominal Duct Size (in.)	Nominal Duct Area (ft. ²)	Core Area (ft. ²)	Airflow, cfm NC	300	400	500	600	700	800	1000	1200	1400
30x30	6.25	5.94	-	1782	2376	2970	3564	4158	4752	5940	7128	8316
			-	-	13	20	26	31	35	43	49	54

Nominal Duct Size (in.)	Nominal Duct Area (ft. ²)	Core Area (ft. ²)	Airflow, cfm NC	300	400	500	600	700	800	1000	1200	1400
42x24 36x28	7	6.66	-	1998	2664	3330	3996	4662	5328	6660	7992	9324
			-	-	13	20	26	31	36	43	49	54

Notes:

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Nominal Duct Size (in.)	Nominal Duct Area (ft. ²)	Core Area (ft. ²)	Core Velocity (FPM)	300	400	500	600	700	800	1000	1200	1400
			Velocity Pressure	0.006	0.01	0.016	0.022	0.031	0.04	0.062	0.09	0.122
			1" Neg. Static Pressure	0.013	0.024	0.037	0.054	0.073	0.096	0.15	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	0.29

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
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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
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36x30	7.5	7.16	Airflow, cfm NC	2148 -	2864 13	3580 21	4296 27	5012 32	5728 36	7160 43	8592 49	10024 55
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48x24 36x32	8	7.63	Airflow, cfm NC	2289 -	3052 14	3815 21	4578 27	5341 32	6104 36	7630 44	9156 50	10682 55
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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
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36x34	8.5	8.14	Airflow, cfm NC	2442 -	3256 14	4070 21	4884 27	5698 32	6512 37	8140 44	9768 50	11396 55
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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
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36x36	9	8.63	Airflow, cfm NC	2589 -	3452 14	4315 22	5178 28	6041 33	6904 37	8630 44	10356 50	12082 55
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42x34 48x30	10	9.6	Airflow, cfm NC	2880 -	3840 15	4800 22	5760 28	6720 33	7680 37	9600 45	11520 51	13440 56
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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
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42x36	10.5	10.1	Airflow, cfm NC	3030 -	4040 15	5050 22	6060 28	7070 33	8080 38	10100 45	12120 51	14140 56
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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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