

Nominal Duct Size (in.)	Nominal Duct Area (sq. ft.)	Core Area (sq. ft.)	Core Velocity (fpm)		300	400	500	600	700	800	1000	1200
			Velocity Pressure (in. w.g.)		0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090
			Total Pressure (in. w.g.)		0°	0.017	0.031	0.048	0.069	0.094	0.123	0.192
10 x 3	0.21	0.14	Air Flow (cfm)		42	56	70	84	98	112	140	168
			NC (dB)		--	--	--	19	24	28	35	40
			Throw (ft.)	0°	3 - 5 - 9	4 - 6 - 10	5 - 8 - 11	6 - 9 - 12	7 - 9 - 13	8 - 10 - 14	9 - 11 - 16	10 - 12 - 17
				22.5°	2 - 4 - 7	3 - 5 - 8	4 - 6 - 9	5 - 7 - 9	6 - 7 - 10	6 - 8 - 11	7 - 9 - 12	8 - 9 - 13
			45°	1 - 2 - 4	2 - 3 - 4	2 - 3 - 5	3 - 4 - 5	3 - 4 - 6	4 - 4 - 6	4 - 5 - 7	4 - 5 - 8	
12 x 3	0.25	0.17	Air Flow (cfm)		51	68	85	102	119	136	170	204
			NC (dB)		--	--	--	15	21	24	31	37
			Throw (ft.)	0°	5 - 7 - 9	6 - 8 - 11	6 - 9 - 12	8 - 9 - 13	7 - 9 - 14	9 - 11 - 15	10 - 12 - 17	11 - 13 - 19
				22.5°	4 - 5 - 7	5 - 6 - 8	5 - 7 - 9	6 - 7 - 10	6 - 8 - 12	7 - 8 - 12	8 - 9 - 12	8 - 10 - 15
			45°	2 - 3 - 4	3 - 3 - 5	3 - 4 - 5	3 - 4 - 6	4 - 5 - 7	4 - 5 - 7	4 - 5 - 8	5 - 6 - 9	
10 x 4 14 x 3	0.28	0.21	Air Flow (cfm)		63	84	105	126	147	168	210	252
			NC (dB)		--	--	15	21	25	29	36	42
			Throw (ft.)	0°	3 - 6 - 10	5 - 7 - 12	6 - 9 - 13	7 - 10 - 15	9 - 11 - 16	10 - 12 - 17	11 - 13 - 19	12 - 15 - 21
				22.5°	3 - 4 - 8	4 - 6 - 9	5 - 7 - 10	6 - 8 - 11	7 - 9 - 12	8 - 9 - 13	8 - 10 - 15	9 - 11 - 16
			45°	2 - 2 - 5	2 - 3 - 5	3 - 4 - 6	3 - 5 - 7	4 - 5 - 7	4 - 5 - 8	5 - 6 - 8	5 - 7 - 9	
12 x 4	0.33	0.25	Air Flow (cfm)		75	100	125	150	175	200	250	300
			NC (dB)		--	--	13	19	23	26	34	40
			Throw (ft.)	0°	5 - 8 - 11	7 - 9 - 13	8 - 10 - 14	9 - 11 - 16	10 - 12 - 17	11 - 13 - 18	12 - 14 - 20	13 - 16 - 22
				22.5°	4 - 6 - 9	6 - 7 - 10	6 - 8 - 11	7 - 9 - 12	8 - 9 - 13	8 - 10 - 14	9 - 11 - 16	10 - 12 - 17
			45°	2 - 4 - 5	3 - 4 - 6	4 - 5 - 6	4 - 5 - 7	4 - 5 - 8	5 - 6 - 8	5 - 6 - 9	6 - 7 - 10	
10 x 6 14 x 4 16 x 4	0.42	0.30	Air Flow (cfm)		90	120	150	180	210	240	300	360
			NC (dB)		--	--	17	23	27	31	35	41
			Throw (ft.)	0°	4 - 7 - 13	6 - 9 - 15	8 - 12 - 17	9 - 13 - 18	11 - 14 - 20	12 - 15 - 21	13 - 16 - 23	14 - 18 - 25
				22.5°	3 - 5 - 10	5 - 7 - 12	6 - 9 - 13	7 - 10 - 14	8 - 11 - 15	10 - 12 - 17	10 - 12 - 18	11 - 14 - 19
			45°	2 - 3 - 6	3 - 4 - 7	4 - 5 - 8	4 - 6 - 8	5 - 6 - 9	6 - 7 - 10	6 - 7 - 10	7 - 8 - 11	
12 x 6 18 x 4	0.50	0.39	Air Flow (cfm)		117	156	195	234	273	312	390	468
			NC (dB)		--	--	--	18	23	27	33	39
			Throw (ft.)	0°	6 - 9 - 18	8 - 13 - 24	10 - 16 - 26	13 - 19 - 29	15 - 22 - 31	17 - 24 - 33	21 - 26 - 37	24 - 29 - 41
				22.5°	5 - 8 - 15	7 - 10 - 19	8 - 13 - 21	10 - 15 - 23	12 - 18 - 25	13 - 19 - 27	17 - 21 - 30	19 - 23 - 33
			45°	3 - 5 - 9	4 - 6 - 12	5 - 8 - 13	6 - 9 - 14	7 - 11 - 16	8 - 12 - 17	10 - 13 - 19	12 - 14 - 20	
10 x 8 14 x 6 20 x 4	0.56	0.43	Air Flow (cfm)		129	172	215	258	301	344	430	516
			NC (dB)		--	--	19	24	29	33	36	40
			Throw (ft.)	0°	7 - 10 - 15	9 - 11 - 16	10 - 13 - 18	11 - 14 - 20	12 - 15 - 21	13 - 16 - 23	15 - 18 - 25	16 - 20 - 28
				22.5°	5 - 8 - 11	7 - 9 - 12	8 - 10 - 14	9 - 11 - 15	10 - 12 - 16	10 - 12 - 18	11 - 14 - 20	12 - 15 - 22
			45°	3 - 5 - 7	4 - 5 - 7	5 - 6 - 8	5 - 6 - 9	6 - 7 - 10	6 - 8 - 11	7 - 8 - 11	8 - 9 - 13	
10 x 10 12 x 8 16 x 6 24 x 4	0.67	0.51	Air Flow (cfm)		153	204	255	306	357	408	510	612
			NC (dB)		--	--	--	20	24	28	35	40
			Throw (ft.)	0°	8 - 11 - 16	11 - 13 - 19	12 - 15 - 21	13 - 16 - 23	14 - 17 - 25	15 - 19 - 26	17 - 21 - 29	19 - 23 - 32
				22.5°	6 - 9 - 12	8 - 10 - 14	9 - 11 - 16	10 - 12 - 18	11 - 13 - 19	12 - 14 - 20	13 - 16 - 23	14 - 18 - 25
			45°	3 - 5 - 7	5 - 6 - 8	5 - 7 - 9	6 - 7 - 10	6 - 8 - 11	7 - 8 - 12	8 - 9 - 13	8 - 10 - 14	
14 x 8 18 x 6	0.75	0.60	Air Flow (cfm)		180	240	300	360	420	480	600	720
			NC (dB)		--	--	15	20	25	29	35	41
			Throw (ft.)	0°	8 - 12 - 17	11 - 14 - 20	13 - 16 - 22	14 - 17 - 24	15 - 18 - 26	16 - 20 - 28	18 - 22 - 31	20 - 24 - 34
				22.5°	6 - 9 - 13	9 - 11 - 15	10 - 12 - 17	11 - 13 - 19	12 - 14 - 20	13 - 15 - 22	14 - 17 - 24	15 - 19 - 27
			45°	4 - 5 - 8	5 - 6 - 9	6 - 7 - 10	6 - 8 - 11	7 - 8 - 12	7 - 9 - 13	8 - 10 - 14	9 - 11 - 16	

Performance notes appear at the end of the performance data.

Nominal Duct Size (in.)	Nominal Duct Area (sq. ft.)	Core Area (sq. ft.)	Core Velocity (fpm)		300	400	500	600	700	800	1000	1200
			Velocity Pressure (in. w.g.)		0.006	0.010	0.016	0.022	0.031	0.040	0.062	0.090
			Total Pressure (in. w.g.)		0°	0.017	0.031	0.048	0.069	0.094	0.123	0.192
10 x 12 12 x 10 16 x 8 20 x 6 30 x 4	0.83	0.67	Air Flow (cfm)		201	268	335	402	469	536	670	804
			NC (dB)		--	--	15	21	25	29	36	41
			Throw (ft.)	0°	6 - 10 - 18	9 - 13 - 21	11 - 16 - 24	13 - 18 - 26	15 - 20 - 28	17 - 21 - 30	19 - 24 - 32	21 - 26 - 33
				22.5°	5 - 8 - 14	7 - 10 - 16	9 - 13 - 18	10 - 14 - 20	12 - 15 - 22	13 - 16 - 23	15 - 18 - 26	16 - 20 - 28
12 x 12 14 x 10 18 x 8 24 x 6 36 x 4	1.00	0.80	Air Flow (cfm)		240	320	400	480	560	640	800	960
			NC (dB)		--	--	16	22	26	30	37	43
			Throw (ft.)	0°	7 - 11 - 20	10 - 14 - 23	12 - 18 - 26	14 - 20 - 28	17 - 22 - 31	19 - 23 - 33	21 - 26 - 37	23 - 28 - 40
				22.5°	5 - 8 - 16	7 - 11 - 18	9 - 14 - 20	11 - 16 - 22	13 - 17 - 24	15 - 18 - 25	16 - 20 - 28	18 - 21 - 30
14 x 12 16 x 10 20 x 8	1.11	0.91	Air Flow (cfm)		273	364	455	546	637	728	910	1092
			NC (dB)		--	--	--	18	23	27	34	39
			Throw (ft.)	0°	10 - 14 - 29	13 - 19 - 36	16 - 24 - 40	19 - 29 - 44	22 - 33 - 47	25 - 36 - 51	32 - 40 - 57	36 - 44 - 62
				22.5°	8 - 11 - 23	10 - 15 - 29	13 - 19 - 32	15 - 23 - 35	18 - 27 - 38	20 - 29 - 40	25 - 32 - 45	29 - 35 - 50
18 x 10 24 x 8 30 x 6	1.25	1.07	Air Flow (cfm)		321	428	535	642	749	856	1070	1284
			NC (dB)		--	--	17	23	27	31	38	44
			Throw (ft.)	0°	11 - 17 - 23	16 - 19 - 27	18 - 21 - 30	19 - 23 - 33	21 - 25 - 36	22 - 27 - 38	25 - 30 - 43	27 - 33 - 47
				22.5°	9 - 13 - 18	12 - 15 - 21	14 - 17 - 23	15 - 18 - 26	16 - 20 - 28	17 - 21 - 30	19 - 23 - 33	21 - 26 - 36
18 x 12 20 x 10 36 x 6	1.50	1.34	Air Flow (cfm)		402	536	670	804	938	1072	1340	1608
			NC (dB)		--	--	18	24	28	32	39	44
			Throw (ft.)	0°	12 - 18 - 26	17 - 21 - 30	19 - 24 - 33	21 - 26 - 37	23 - 28 - 40	24 - 30 - 42	27 - 33 - 47	30 - 37 - 52
				22.5°	10 - 14 - 20	13 - 16 - 23	15 - 18 - 26	16 - 20 - 28	18 - 22 - 31	19 - 23 - 33	21 - 26 - 37	23 - 28 - 40
20 x 12 24 x 10 30 x 8	1.67	1.47	Air Flow (cfm)		441	588	735	882	1029	1178	1470	1764
			NC (dB)		--	--	19	24	29	33	39	45
			Throw (ft.)	0°	13 - 19 - 27	18 - 22 - 31	20 - 25 - 35	22 - 27 - 38	24 - 29 - 42	26 - 31 - 44	29 - 35 - 50	31 - 38 - 54
				22.5°	10 - 15 - 21	14 - 17 - 24	16 - 19 - 27	17 - 21 - 30	19 - 23 - 32	20 - 24 - 34	22 - 27 - 38	26 - 32 - 46
24 x 12 30 x 10 36 x 8	2.00	1.78	Air Flow (cfm)		534	712	890	1068	1246	1424	1780	2136
			NC (dB)		--	--	19	25	30	34	40	46
			Throw (ft.)	0°	14 - 20 - 41	18 - 27 - 51	23 - 34 - 57	27 - 41 - 62	32 - 47 - 67	36 - 51 - 72	45 - 57 - 80	51 - 62 - 88
				22.5°	11 - 16 - 32	14 - 22 - 40	18 - 27 - 45	22 - 32 - 50	25 - 38 - 54	29 - 40 - 57	36 - 45 - 64	40 - 50 - 70
30 x 12 36 x 10	2.50	2.28	Air Flow (cfm)		684	912	1140	1368	1596	1824	2280	2736
			NC (dB)		--	16	20	24	29	33	40	46
			Throw (ft.)	0°	16 - 24 - 34	22 - 28 - 39	25 - 31 - 44	28 - 34 - 48	30 - 36 - 52	32 - 39 - 55	36 - 44 - 62	39 - 49 - 67
				22.5°	12 - 18 - 26	17 - 21 - 30	19 - 24 - 34	21 - 26 - 37	23 - 28 - 40	25 - 30 - 43	28 - 34 - 48	30 - 37 - 52
36 x 12	3.00	2.71	Air Flow (cfm)		813	1084	1355	1626	1897	2168	2710	3252
			NC (dB)		--	15	21	27	31	35	42	47
			Throw (ft.)	0°	18 - 26 - 37	25 - 30 - 43	28 - 34 - 48	30 - 37 - 52	33 - 40 - 56	35 - 43 - 60	39 - 48 - 67	43 - 52 - 74
				22.5°	14 - 20 - 29	19 - 23 - 33	21 - 26 - 37	23 - 29 - 41	25 - 31 - 44	27 - 33 - 47	30 - 37 - 52	33 - 41 - 57
45°	8 - 12 - 17	11 - 14 - 19	12 - 15 - 21	14 - 17 - 24	15 - 18 - 25	16 - 19 - 27	18 - 21 - 30	19 - 24 - 33				

- Throw data is given for isothermal conditions.
- Terminal velocities are listed 150, 100 and 50 FPM.
- NC values are based on room absorption of 10 dB re 10<sup>-12</sup> watts.
- Blanks "—" indicate NC value of less than 15 dB.
- 0°, 22.5° and 45° represent the blade angle.