Duct Size		Nom	Core	Core Velocity		300			400			500			600			700			800			900			1000		
Nom Width W	Nom Height H	Duct ft2	Area ft2	Ps	0°	0.02			0.03			0.04			0.06			0.09			0.11			0.14			0.17		
					22.5°	0.02			0.04			0.06			0.08			0.11			0.15			0.18			0.23		
					45°	0.03			0.05			0.08			0.11			0.15			0.20			0.25			0.31		
6	6	0.25	0.15	CFM		40			60			70			90			100			120			130			150		
				NC		<20			<20			<20			23			27			31			34			37		
				Throw	0°	5	7	13	7	10	15	8	12	17	10	13	19	11	14	20	13	15	22	13	16	23	14	17	24
					22.5°	4	5	9	5	7	11	6	9	12	7	9	14	8	10	14	9	11	16	9	12	17	10	12	17
					45°	3	4	7	4	6	8	4	7	9	6	7	10	6	8	11	7	8	12	7	9	13	8	9	13
8	6	0.33	0.21	CFM		60			90			110			130			150			170			190			210		
				NC		<20			<20			<20			24			29			32			36			38		
				Throw	0°	6	8	15	8	13	19	10	15	21	12	16	23	14	17	24	15	18	26	16	19	27	17	20	29
					22.5°	4	6	11	6	9	14	7	11	15	9	12	17	10	12	17	11	13	19	12	14	19	12	14	21
					45°	3	4	8	4	7	10	6	8	12	7	9	13	8	9	13	8	10	14	9	10	15	9	11	16
8	8	0.44	0.30	CFM		90			120			150			180			210			240			270			300		
				NC		<20			<20			21			26			30			34			37			40		
				Throw	0°	7	11	19	9	14	22	12	17	24	14	19	27	17	20	29	18	22	31	19	23	33	20	24	34
					22.5°	5	8	14	6	10	16	9	12	17	10	14	19	12	14	21	13	16	22	14	17	24	14	17	24
					45°	4	6	10	5	8	12	7	9	13	8	10	15	9	11	16	10	12	17	10	13	18	11	13	19
12	6	0.50	0.34	CFM		100			140			170			200			240			270			310			340		
				NC		<20			<20			22			27			31			34			38			41		
				Throw	0°	7	11	20	10	16	23	13	18	26	15	20	28	18	22	31	19	23	33	20	25	35	21	26	37
					22.5°	5	8	14	7	12	17	9	13	19	11	14	20	13	16	22	14	17	24	14	18	25	15	19	27
					45°	4	6	11	6	9	13	7	10	14	8	11	15	10	12	17	10	13	18	11	14	19	12	14	20
10	10	0.69	0.52	CFM		150			210			260			310			360			410			460			520		
				NC		<20			<20			23			28			33			36			39			42		
				Throw	0°	9	14	24	13	19	29	16	23	32	19	25	35	22	27	38	23	28	40	25	30	42	26	32	45
					22.5°	6	10	17	9	14	21	12	17	23	14	18	25	16	19	27	17	20	29	18	22	30	19	23	32
					45°	5	8	13	7	10	16	9	13	18	10	14	19	12	15	21	13	15	22	14	17	23	14	18	25
12	12	1.00	0.78	CFM		240			310			390			470			550			630			710			780		
				NC		<20			<20			25			30			34			38			41			44		
				Throw	0°	12	18	31	15	23	35	19	28	39	23	30	43	27	33	46	29	35	50	30	37	53	32	39	55
					22.5°	9	13	22	11	17	25	14	20	28	17	22	31	19	24	33	21	25	36	22	27	38	23	28	40
					45°	7	10	17	8	13	19	10	15	21	13	17	24	15	18	25	16	19	28	17	20	29	18	21	30
14	14	1.36	1.11	CFM		330			440			550			660			770			890			1000			1110		
				NC		<20			21			27			32			36			40			43			46		
				Throw	0°	14	20	36	18	27	42	23	33	46	27	36	51	32	39	55	34	42	59	36	44	63	38	47	66
					22.5°	10	14	26	13	19	30	17	24	33	19	26	37	23	28	40	24	30	42	26	32	45	27	34	48
					45°	8	11	20	10	15	23	13	18	25	15	20	28	18	21	30	19	23	32	20	24	35	21	26	36
18	12	1.50	1.23	CFM		370			490			610			740			860			980			1100			1230		
				NC		<20			21			27			32			36			40			43			46		
				Throw	0°	15	22	38	19	29	44	24	35	49	29	38	54	34	41	58	36	44	62	38	46	66	40	49	69
					22.5°	11	16	27	14	21	32	17	25	35	21	27	39	24	30	42	26	32	45	27	33	48	29	35	50
					45°	8	12	21	10	16	24	13	19	27	16	21	30	19	23	32	20	24	34	21	25	36	22	27	38
24	12	2.00	1.67	CFM		500			670			830			1000			1170			1340			1500			1670		
				NC		<20			22			28			33			38			41			45			47		
				Throw	0°	17	25	44	23	34	51	28	40	57	34	44	63	39	48	68	42	51	72	44	54	77	47	57	81
					22.5°	12	18	32	17	24	37	20	29	41	24	32	45	28	35	49	30	37	52	32	39	55	34	41	58
					45°	9	14	24	13	19	28	15	22	31	19	24	35	21	26	37	23	28	40	24	30	42	26	31	45
20	20	2.78	2.41	CFM		720			960			1200			1450			1690			1930			2170			2410		
				NC		<20			24			30			35			39			43			46			49		
				Throw	0°	20	30	53	27	40	61	34	48	69	41	53	75	47	58	81	50	62	87	53	65	92	56	69	97
					22.5°	14	22	38	19	29	44	24	35	50	30	38	54	34	42	58	36	45	63	38	47	66	40	50	70
					45°	11	17	29	15	22	34	19	26	38	23	29	41	26	32	45	28	34	48	29	36	51	31	38	53
24	18	3.00	2.61	CFM		780			1040			1310			1570			1830			2090			2350			2610		
				NC		<20			24			30			35			40			43			46			49		
				Throw	0°	21	32	55	28	42	64	35	51	72	42	55	78	49	60	85	52	64	91	55	68	96	58	72	101
					22.5°	15	23	40	20	30	46	25	37	52	30	40	56	35	43	61	37	46	66	40	49	69	42	52	73
					45°	12	18	30	15	23	35	19	28	40	23	30	43	27	33	47	29	35	50	30	37	53	32	40	56
22	22	3.36	2.95	CFM		890			1180			1480			1770			2070			2360			2660			2950		
				NC		<20			25			31			36			40			44			47			50		
				Throw	0°	23	34	59	30	45	68	38	54	76	45	59	83	52	64	90	56	68	96	59	72	102	62	76	108
					22.5°	17	24	42	22	32	49	27	39	55	32	42	60	37	46	65	40	49	69	42	52	73	45	55	78
					45°	13	19	32	17	25	37	21	30	42	25	32	46	29	35	50	31	37	53	32	40	56	34	42	59
24	24	4.00	3.55	CFM		1070			1420			1780			2130			2490			2840			3200			3550		
				NC		<20			26			32			37			41			45			48			51		
				Throw	0°	25	37	65	33	49	75	41	59	84	49	65	91	57	70	99	61	75	106	65	79	112	68	83	118
					22.5°	18	27	47	24	35	54	30	42	60	35	47	66	41	50	71	44	54	76	47	57	81	49	60	85
					45°	14	20	36	18	27	41	23	32	46	27	36	50	31	39	54	34	41	58	36	43	62	37	46	65

Test Standard
- ANSI / ASHRAE standard 70
- Isothermal air used during testing. For large grilles with a cooling differential, the drop of the air stream should be evaluated.
- Data includes opposed blade volume control damper in full open position.

Throw
- The numbers shown are throw distances, in feet, measured along the jet trajectory axis relating to terminal velocities of 150,100, & 50 fpm, with the jet attached to the ceiling surface. For exposed duct installation with free, unattached jet, multiple throw distance in table x .70
- 0°, 22.5°,45° represent the louver deflection or spread angle settings
- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.

Opposed Blade Volume Control Dampers (OBD)
- Data shown includes OBD (wide open)
- Without damper, reduce NC -3
- Without damper, reduce P_s x .75

Sound Levels
- NC shown is for 0° louver angle setting and is noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10^{-12} watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands. For 22.5° louver angle setting, add 2 NC to the tabulated value shown. For for 45° louver angle setting, add 6 NC to the tabulated value shown.

Neck Velocity, Core Velocity
- Feet per minute

Pressure
- P_s represents static pressure, inches of water