

6" DRUM DIAMETER

NOMINAL SIZE	DUCT VEL P _v P _t	300	400	500	600	700	800	900	1000	1200
		0.01 0.04	0.01 0.07	0.02 0.10	0.02 0.15	0.03 0.20	0.04 0.26	0.05 0.33	0.06 0.41	0.09 0.59
9" x 6"	CFM	115	150	190	225	265	300	340	375	450
	THROW	8	11	14	17	20	22	25	28	31
	NC	<10	<10	13	18	22	26	30	33	38
12" x 6"	CFM	150	200	250	300	350	400	450	500	600
	THROW	10	13	16	19	23	26	29	32	36
	NC	<10	<10	14	19	24	27	31	34	39
18" x 6"	CFM	225	300	375	450	525	600	675	750	900
	THROW	12	16	20	24	28	32	36	40	44
	NC	<10	<10	16	21	25	29	33	36	41
24" x 6"	CFM	300	400	500	600	700	800	900	1000	1200
	THROW	14	18	23	27	32	37	41	46	51
	NC	<10	10	17	22	27	30	34	37	42
30" x 6"	CFM	375	500	625	750	875	1000	1125	1250	1500
	THROW	15	20	26	31	36	41	46	51	57
	NC	<10	11	18	23	28	31	35	38	43
36" x 6"	CFM	450	600	750	900	1050	1200	1350	1500	1800
	THROW	17	22	28	34	39	45	51	56	62
	NC	<10	12	19	24	28	32	36	39	44
48" x 6"	CFM	600	800	1000	1200	1400	1600	1800	2000	2400
	THROW	19	26	32	39	45	52	58	65	72
	NC	<10	13	20	25	30	33	37	40	45
60" x 6"	CFM	750	1000	1250	1500	1750	2000	2250	2500	3000
	THROW	22	29	36	43	51	58	65	72	80
	NC	<10	14	21	26	31	34	38	41	46

P_v, P_t Velocity pressure, Total pressure (inches of water). Total pressure is shown for 0° deflection. For 15° deflection, increase P_t by 1.35. For 30° deflection, increase P_t by 1.7.

CFM Volumetric Air Flow Rate, Cubic Feet per Minute

Throw Distance in feet to terminal velocity of V_t = 125 FPM. Based on a free jet (no surface effects), with 0° deflection. For 15° deflection, multiply throw by .82. For 30° deflection, multiply throw by .71. For other terminal velocities, see throw adjustment factors.

NC Noise criteria based on louver set at 0° deflection and a room absorption of 10dB at a mounting height of 10 feet above the occupied zone. For other mounting heights, see NC adjustment chart. For 15° deflection, increase NC value +4. For 30° deflection, increase NC value +8. With full open opposed blade damper, increase NC value +4.

Tested in accordance with ASHRAE Std 70

10" DRUM DIAMETER

NOMINAL SIZE	DUCT VEL P _v P _t	300	400	500	600	700	800	900	1000	1200
		0.01 0.03	0.01 0.06	0.02 0.10	0.02 0.14	0.03 0.20	0.04 0.26	0.05 0.32	0.06 0.40	0.09 0.57
20" x 10"	CFM	415	555	695	835	970	1110	1250	1390	1665
	THROW	16	21	27	32	37	43	48	53	60
	NC	<10	10	17	22	26	30	34	37	42
25" x 10"	CFM	520	695	870	1040	1215	1390	1565	1735	2085
	THROW	18	24	30	36	42	48	54	60	67
	NC	<10	11	18	23	27	31	35	38	43
30" x 10"	CFM	625	835	1040	1250	1460	1665	1875	2085	2500
	THROW	20	26	33	39	46	52	59	65	73
	NC	<10	12	18	24	28	32	35	38	44
35" x 10"	CFM	730	970	1215	1460	1700	1945	2190	2430	2915
	THROW	21	28	35	42	49	56	63	71	79
	NC	<10	13	19	24	29	33	36	39	44
40" x 10"	CFM	835	1110	1390	1665	1945	2220	2500	2780	3335
	THROW	23	30	38	45	53	60	68	75	84
	NC	<10	13	20	25	29	33	37	40	45
50" x 10"	CFM	1040	1390	1735	2085	2430	2780	3125	3470	4165
	THROW	25	34	42	51	59	67	76	84	94
	NC	<10	14	21	26	30	34	38	41	46
60" x 10"	CFM	1250	1665	2085	2500	2915	3335	3750	4165	5000
	THROW	28	37	46	55	65	74	83	92	103
	NC	<10	15	21	27	31	35	38	41	47
70" x 10"	CFM	1460	1945	2430	2915	3405	3890	4375	4860	5835
	THROW	30	40	50	60	70	80	90	100	112
	NC	<10	16	22	27	32	36	39	42	47

P_v, P_t Velocity pressure, Total pressure (inches of water). Total pressure is shown for 0° deflection. For 15° deflection, increase P_t by 1.35. For 30° deflection, increase P_t by 1.7.

CFM Volumetric Air Flow Rate, Cubic Feet per Minute

Throw.....Distance in feet to terminal velocity of V_t = 125 FPM. Based on a free jet (no surface effects), with 0° deflection. For 15° deflection, multiply throw by .82. For 30° deflection, multiply throw by .71. For other terminal velocities, see throw adjustment factors.

NC Noise criteria based on louver set at 0° deflection and a room absorption of 10dB at a mounting height of 10 feet above the occupied zone. For other mounting heights, see NC adjustment chart. For 15° deflection, increase NC value +4. For 30° deflection, increase NC value +8. With full open opposed blade damper, increase NC value +4.

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12" DRUM DIAMETER

NOMINAL SIZE	DUCT VEL P _v P _t	300	400	500	600	700	800	900	1000	1200
		0.01 0.04	0.01 0.07	0.02 0.10	0.02 0.15	0.03 0.21	0.04 0.27	0.05 0.34	0.06 0.42	0.09 0.60
20" x 12"	CFM	500	665	835	1000	1165	1335	1500	1665	2000
	THROW	18	24	30	36	43	49	55	60	65
	NC	<10	10	17	22	27	30	34	37	42
25" x 12"	CFM	625	835	1040	1250	1460	1665	1875	2085	2500
	THROW	20	27	34	41	48	54	61	67	73
	NC	<10	11	18	23	28	31	35	38	43
30" x 12"	CFM	750	1000	1250	1500	1750	2000	2250	2500	3000
	THROW	22	30	37	45	52	60	67	73	80
	NC	<10	12	19	24	28	32	36	39	44
35" x 12"	CFM	875	1165	1460	1750	2040	2335	2625	2915	3500
	THROW	24	32	40	48	56	64	72	79	86
	NC	<10	13	19	25	29	33	36	39	45
40" x 12"	CFM	1000	1335	1665	2000	2335	2665	3000	3335	4000
	THROW	26	34	43	52	60	69	77	84	92
	NC	<10	13	20	25	30	33	37	40	45
50" x 12"	CFM	1250	1665	2085	2500	2915	3335	3750	4165	5000
	THROW	29	38	48	58	67	77	87	94	103
	NC	<10	14	21	26	31	34	38	41	46
60" x 12"	CFM	1500	2000	2500	3000	3500	4000	4500	5000	6000
	THROW	32	42	53	63	74	84	95	103	113
	NC	<10	15	22	27	31	35	39	42	47
70" x 12"	CFM	1750	2335	2915	3500	4085	4665	5250	5835	7000
	THROW	34	45	57	68	80	91	102	112	122
	NC	<10	16	22	28	32	36	39	42	48

P_v, P_t Velocity pressure, Total pressure (inches of water). Total pressure is shown for 0° deflection. For 15° deflection, increase P_t by 1.35. For 30° deflection, increase P_t by 1.7.

CFM Volumetric Air Flow Rate, Cubic Feet per Minute

Throw.....Distance in feet to terminal velocity of V_t = 125 FPM. Based on a free jet (no surface effects), with 0° deflection. For 15° deflection, multiply throw by .82. For 30° deflection, multiply throw by .71. For other terminal velocities, see throw adjustment factors.

NC Noise criteria based on louver set at 0° deflection and a room absorption of 10dB at a mounting height of 10 feet above the occupied zone. For other mounting heights, see NC adjustment chart. For 15° deflection, increase NC value +4. For 30° deflection, increase NC value +8. With full open opposed blade damper, increase NC value +4.

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15" DRUM DIAMETER

NOMINAL SIZE	DUCT VEL P _v P _t	300	400	500	600	700	800	900	1000	1200
		0.01 0.03	0.01 0.05	0.02 0.08	0.02 0.11	0.03 0.16	0.04 0.20	0.05 0.26	0.06 0.32	0.09 0.46
15" x 15"	CFM	470	625	780	940	1095	1250	1405	1565	1875
	THROW	17	22	28	33	39	44	50	55	63
	NC	<10	<10	15	20	24	28	32	35	40
20" x 15"	CFM	625	835	1040	1250	1460	1665	1875	2085	2500
	THROW	19	26	32	38	45	51	58	64	73
	NC	<10	<10	16	21	26	29	33	36	41
25" x 15"	CFM	780	1040	1300	1565	1825	2085	2345	2605	3125
	THROW	21	29	36	43	50	57	64	72	82
	NC	<10	10	17	22	26	30	34	37	42
30" x 15"	CFM	940	1250	1565	1875	2190	2500	2815	3125	3750
	THROW	24	31	39	47	55	63	71	78	89
	NC	<10	11	18	23	27	31	35	38	43
40" x 15"	CFM	1250	1665	2085	2500	2915	3335	3750	4165	5000
	THROW	27	36	45	54	63	72	82	91	103
	NC	<10	12	19	24	29	32	36	39	44
50" x 15"	CFM	1565	2085	2605	3125	3645	4165	4690	5210	6250
	THROW	30	41	51	61	71	81	91	101	115
	NC	<10	13	20	25	29	33	37	40	45
60" x 15"	CFM	1875	2500	3125	3750	4375	5000	5625	6250	7500
	THROW	33	44	55	67	78	89	100	111	126
	NC	<10	14	21	26	30	34	38	41	46
70" x 15"	CFM	2190	2915	3645	4375	5105	5835	6565	7290	8750
	THROW	36	48	60	72	84	96	108	120	137
	NC	<10	15	21	27	31	35	38	41	47

P_v, P_t Velocity pressure, Total pressure (inches of water). Total pressure is shown for 0° deflection. For 15° deflection, increase P_t by 1.35. For 30° deflection, increase P_t by 1.7.

CFM Volumetric Air Flow Rate, Cubic Feet per Minute

Throw.....Distance in feet to terminal velocity of V_t = 125 FPM. Based on a free jet (no surface effects), with 0° deflection. For 15° deflection, multiply throw by .82. For 30° deflection, multiply throw by .71. For other terminal velocities, see throw adjustment factors.

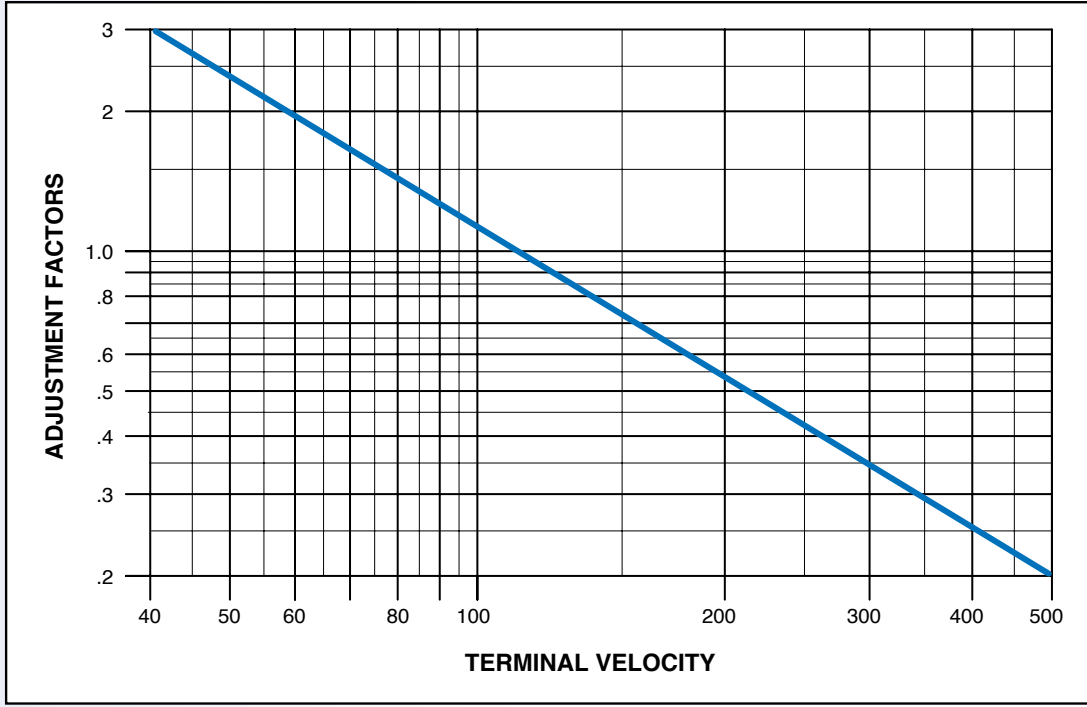
NC Noise criteria based on louver set at 0° deflection and a room absorption of 10dB at a mounting height of 10 feet above the occupied zone. For other mounting heights, see NC adjustment chart. For 15° deflection, increase NC value +4. For 30° deflection, increase NC value +8. With full open opposed blade damper, increase NC value +4.

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THROW CORRECTION

The throw data presented in the "IJ" performance tables is based on a terminal velocity, V_t , of 125 FPM. To obtain the throw at other terminal velocities, use the following graph and formula:

Throw = Factor X value from performance data table.



NC ADJUSTMENT

The NC adjustment is based on source (diffuser) - receiver (occupant) distance. Sound data in the tables is based on 10' distance. This graph shows sound level adjustment as the source-receiver distance is changed.

