

ENGINEERING DATA

Size 6 Data

Listed Size	Duct Velocity	400	600	800	1000
	Velocity Pressure	0.01	0.022	0.04	0.062
6 x 9	Airflow (CFM)	172	258	344	430
	Total Pressure	0.08	0.18	0.32	0.51
	Throw	5-12-23	12-19-29	18-23-34	22-27-37
	NC	-	23	34	42
6x12	Airflow (CFM)	226	338	451	564
	Total Pressure	0.08	0.18	0.32	0.51
	Throw	9-19-27	17-24-34	22-27-39	26-30-42
	NC	-	24	34	42
6x18	Airflow (CFM)	333	499	665	832
	Total Pressure	0.08	0.18	0.32	0.51
	Throw	18-23-32	23-29-41	27-33-47	30-37-51
	NC	11	25	35	43
6x24	Airflow (CFM)	440	660	880	1100
	Total Pressure	0.08	0.18	0.32	0.51
	Throw	22-27-38	27-33-47	31-38-54	34-42-59
	NC	12	26	36	44
6x30	Airflow (CFM)	547	821	1094	1368
	Total Pressure	0.08	0.18	0.32	0.51
	Throw	24-29-41	30-37-52	34-42-60	38-46-66
	NC	12	27	37	45
6x36	Airflow (CFM)	655	982	1309	1636
	Total Pressure	0.08	0.18	0.32	0.51
	Throw	26-32-46	33-41-57	38-46-65	42-51-72
	NC	13	28	38	46
6x48	Airflow (CFM)	869	1303	1737	2172
	Total Pressure	0.08	0.18	0.32	0.51
	Throw	31-37-52	38-46-66	43-53-75	48-58-83
	NC	14	28	39	47
6x60	Airflow (CFM)	1083	1625	2166	2708
	Total Pressure	0.08	0.18	0.32	0.51
	Throw	34-42-59	43-52-73	49-59-84	53-65-92
	NC	15	29	40	48



Adjustment Factors			
Deflection	Throw	Tp	NC
0°	1.2	0.8	-4
30° (upward)	0.8	1.43	4

Notes

1. Tests conducted in accordance with ANSI/ASHRAE 70-2006 at isothermal conditions.
2. Units: Face Velocity = fpm, Total Pressure = in. wc.
3. Throw based on terminal velocities of 150 FPM, 100 FPM and 50 FPM.
4. NC is based upon 10dB room absorption (Re: 10^{-12} watts) evaluated at 125 thru 4000 Hz octave bands.
5. Dash "-" indicates NC value less than 10.
6. Data is reported with drum at 15° upward deflection. See table for 0° and 30° (upward only) deflection adjustment factors.

ENGINEERING DATA

Size 10 Data

Listed Size	Duct Velocity	400	600	800	1000
	Velocity Pressure	0.01	0.022	0.04	0.062
10x20	Airflow (CFM)	584	876	1168	1460
	Total Pressure	0.06	0.12	0.22	0.34
	Throw	25-30-43	31-38-54	36-44-62	39-48-68
	NC	11	26	36	44
10x25	Airflow (CFM)	725	1088	1450	1813
	Total Pressure	0.06	0.12	0.22	0.34
	Throw	28-33-48	35-42-60	40-49-69	44-53-76
	NC	12	27	37	45
10x30	Airflow (CFM)	866	1300	1733	2166
	Total Pressure	0.06	0.12	0.22	0.34
	Throw	31-37-52	38-47-66	44-54-75	48-59-83
	NC	13	28	38	46
10x35	Airflow (CFM)	1008	1512	2016	2520
	Total Pressure	0.06	0.12	0.22	0.34
	Throw	33-40-57	41-50-71	47-57-81	52-63-89
	NC	13	28	38	46
10x40	Airflow (CFM)	1149	1724	2299	2874
	Total Pressure	0.06	0.12	0.22	0.34
	Throw	35-43-61	44-54-76	50-61-87	55-67-95
	NC	14	28	39	47
10x50	Airflow (CFM)	1432	2148	2864	3580
	Total Pressure	0.06	0.12	0.22	0.34
	Throw	39-48-68	49-60-85	56-68-97	61-75-106
	NC	15	29	40	48
10x60	Airflow (CFM)	1715	2573	3430	4288
	Total Pressure	0.06	0.12	0.22	0.34
	Throw	43-53-75	53-66-93	61-75-105	67-82-115
	NC	16	30	40	48
10x70	Airflow (CFM)	1998	2997	3996	4995
	Total Pressure	0.06	0.12	0.22	0.34
	Throw	46-57-80	58-71-100	66-80-114	72-88-125
	NC	16	30	41	49



Adjustment Factors			
Deflection	Throw	Tp	NC
0°	1.2	0.8	-4
30° (upward)	0.8	1.43	4

Notes

1. Tests conducted in accordance with ANSI/ASHRAE 70-2006 at isothermal conditions.
2. Units: Face Velocity = fpm, Total Pressure = in. wc.
3. Throw based on terminal velocities of 150 FPM, 100 FPM and 50 FPM.
4. NC is based upon 10dB room absorption (Re: 10^{-12} watts) evaluated at 125 thru 4000 Hz octave bands.
5. Dash "-" indicates NC value less than 10.
6. Data is reported with drum at 15° upward deflection. See table for 0° and 30° (upward only) deflection adjustment factors.

ENGINEERING DATA

Size 12 Data

Listed Size	Duct Velocity	400	600	800	1000
	Velocity Pressure	0.01	0.022	0.04	0.062
12x20	Airflow (CFM)	698	1047	1396	1746
	Total Pressure	0.05	0.12	0.21	0.32
	Throw	27-33-47	34-42-59	39-48-68	43-53-74
	NC	12	26	37	45
12x30	Airflow (CFM)	1037	1555	2074	2592
	Total Pressure	0.05	0.12	0.21	0.32
	Throw	33-41-57	41-51-72	48-58-82	52-64-90
	NC	13	28	38	46
12x40	Airflow (CFM)	1375	2063	2750	3438
	Total Pressure	0.05	0.12	0.21	0.32
	Throw	38-47-66	48-59-83	55-67-95	60-74-104
	NC	15	29	39	47
12x50	Airflow (CFM)	1714	2570	3427	4284
	Total Pressure	0.05	0.12	0.21	0.32
	Throw	43-53-75	53-66-93	61-75-105	66-82-115
	NC	16	30	40	48
12x60	Airflow (CFM)	2044	3066	4088	5110
	Total Pressure	0.05	0.12	0.21	0.32
	Throw	47-58-81	59-72-101	67-82-115	73-90-126
	NC	16	30	41	49
12x70	Airflow (CFM)	2391	3586	4781	5977
	Total Pressure	0.05	0.12	0.21	0.32
	Throw	51-62-88	63-77-109	71-88-124	78-96-136
	NC	17	31	42	50



Adjustment Factors			
Deflection	Throw	Tp	NC
0°	1.2	0.8	-4
30° (upward)	0.8	1.43	4

Notes

1. Tests conducted in accordance with ANSI/ASHRAE 70-2006 at isothermal conditions.
2. Units: Face Velocity = fpm, Total Pressure = in. wc.
3. Throw based on terminal velocities of 150 FPM, 100 FPM and 50 FPM.
4. NC is based upon 10dB room absorption (Re: 10⁻¹² watts) evaluated at 125 thru 4000 Hz octave bands.
5. Dash "-" indicates NC value less than 10.
6. Data is reported with drum at 15° upward deflection. See table for 0° and 30° (upward only) deflection adjustment factors.

ENGINEERING DATA

Size 15 Data

Listed Size	Duct Velocity	400	600	800	1000
	Velocity Pressure	0.01	0.022	0.04	0.062
15x15	Airflow (CFM)	659	989	1318	1648
	Total Pressure	0.04	0.1	0.17	0.27
	Throw	26-32-45	33-41-57	38-47-66	42-51-72
	NC	12	26	37	45
15x20	Airflow (CFM)	870	1305	1740	2175
	Total Pressure	0.04	0.1	0.17	0.27
	Throw	31-37-52	38-47-66	44-54-75	48-59-83
	NC	13	28	38	46
15x25	Airflow (CFM)	1081	1621	2161	2702
	Total Pressure	0.04	0.1	0.17	0.27
	Throw	34-42-58	43-52-73	49-59-84	54-65-92
	NC	13	28	39	47
15x30	Airflow (CFM)	1292	1938	2583	3229
	Total Pressure	0.04	0.1	0.17	0.27
	Throw	37-45-64	46-57-81	53-65-92	58-72-101
	NC	14	29	39	47
15x40	Airflow (CFM)	1714	2570	3427	4284
	Total Pressure	0.04	0.1	0.17	0.27
	Throw	43-53-75	53-66-93	61-75-105	66-82-115
	NC	16	30	40	48
15x50	Airflow (CFM)	2135	3203	4270	5338
	Total Pressure	0.04	0.1	0.17	0.27
	Throw	48-59-83	60-73-103	68-83-118	74-91-129
	NC	16	31	41	49
15x60	Airflow (CFM)	2557	3836	5115	6393
	Total Pressure	0.04	0.1	0.17	0.27
	Throw	53-64-91	65-80-113	74-91-129	81-99-141
	NC	17	31	42	50
15x70	Airflow (CFM)	2979	4469	5958	7448
	Total Pressure	0.04	0.1	0.17	0.27
	Throw	57-69-98	70-86-122	80-98-138	87-107-151
	NC	18	32	43	51



Adjustment Factors			
Deflection	Throw	Tp	NC
0°	1.2	0.8	-4
30° (upward)	0.8	1.43	4

Notes

1. Tests conducted in accordance with ANSI/ASHRAE 70-2006 at isothermal conditions.
2. Units: Face Velocity = fpm, Total Pressure = in. wc.
3. Throw based on terminal velocities of 150 FPM, 100 FPM and 50 FPM.
4. NC is based upon 10dB room absorption (Re: 10^{-12} watts) evaluated at 125 thru 4000 Hz octave bands.
5. Dash "-" indicates NC value less than 10.
6. Data is reported with drum at 15° upward deflection. See table for 0° and 30° (upward only) deflection adjustment factors.