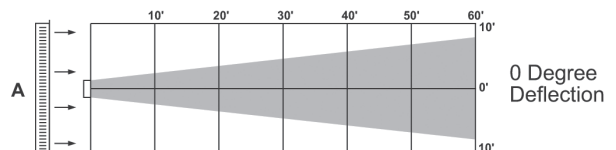


ENGINEERING DATA

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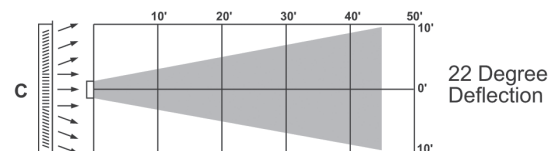
Listed Size Outlet Area	Vk Outlet Velocity (FPM)											
	300	400	500	600	700	800	900	1000	1100	1200	1300	
6 Ak = .142	CFM	42	57	71	85	99	113	127	142	156	170	184
	Throw	3 - 5 - 10	5 - 7 - 14	5 - 8 - 16	7 - 10 - 20	8 - 12 - 23	8 - 13 - 25	10 - 15 - 29	11 - 16 - 32	12 - 18 - 36	13 - 20 - 40	15 - 23 - 45
	Ps	0.004	0.006	0.010	0.014	0.020	0.026	0.033	0.040	0.049	0.058	0.068
	NC	-	-	-	-	-	-	-	-	-	-	-
8 Ak = .259	CFM	78	104	130	156	181	207	233	259	285	311	337
	Throw	4 - 6 - 11	5 - 8 - 15	6 - 9 - 18	7 - 11 - 22	8 - 13 - 25	10 - 15 - 29	11 - 17 - 33	12 - 18 - 36	13 - 20 - 40	15 - 22 - 44	16 - 24 - 47
	Ps	0.003	0.006	0.009	0.014	0.019	0.024	0.031	0.038	0.046	0.054	0.064
	NC	-	-	-	-	-	-	-	-	-	21	24
10 Ak = .414	CFM	124	166	207	249	290	332	373	414	456	497	539
	Throw	4 - 6 - 12	5 - 8 - 16	7 - 10 - 20	8 - 12 - 24	9 - 14 - 28	11 - 17 - 33	12 - 19 - 37	14 - 21 - 41	15 - 23 - 45	16 - 25 - 49	18 - 27 - 53
	Ps	0.003	0.006	0.009	0.012	0.017	0.022	0.028	0.035	0.042	0.050	0.059
	NC	-	-	-	-	-	-	-	-	20	24	26
12 Ak = .608	CFM	182	243	304	365	426	486	547	608	669	730	790
	Throw	5 - 7 - 14	6 - 9 - 18	8 - 12 - 23	9 - 14 - 27	11 - 16 - 32	12 - 18 - 36	14 - 21 - 41	15 - 23 - 45	17 - 25 - 50	18 - 27 - 54	20 - 30 - 59
	Ps	0.003	0.005	0.008	0.011	0.015	0.020	0.025	0.032	0.037	0.044	0.052
	NC	-	-	-	-	-	-	-	-	21	25	28
14 Ak = .841	CFM	252	336	420	504	588	673	757	841	925	1009	1093
	Throw	5 - 7 - 14	6 - 10 - 19	8 - 12 - 24	10 - 15 - 29	11 - 17 - 33	13 - 19 - 38	14 - 22 - 43	16 - 24 - 48	17 - 26 - 52	19 - 29 - 57	21 - 31 - 62
	Ps	0.002	0.004	0.007	0.009	0.013	0.017	0.021	0.026	0.031	0.037	0.044
	NC	-	-	-	-	-	-	-	20	23	27	30
16 Ak = 1.113	CFM	334	445	557	668	779	890	1002	1113	1224	1336	1447
	Throw	5 - 8 - 15	7 - 10 - 20	8 - 13 - 25	10 - 15 - 30	12 - 18 - 35	13 - 20 - 40	15 - 23 - 45	17 - 25 - 50	18 - 28 - 55	20 - 30 - 60	22 - 33 - 65
	Ps	0.002	0.003	0.005	0.004	0.010	0.013	0.017	0.020	0.025	0.029	0.034
	NC	-	-	-	-	-	-	-	22	26	28	31
18 Ak = 1.426	CFM	428	570	713	855	998	1141	1283	1426	1568	1711	1853
	Throw	5 - 8 - 16	7 - 11 - 21	9 - 13 - 26	11 - 16 - 32	12 - 19 - 37	14 - 21 - 42	16 - 24 - 47	17 - 26 - 52	19 - 29 - 58	21 - 32 - 63	23 - 34 - 68
	Ps	0.001	0.002	0.004	0.005	0.007	0.009	0.011	0.014	0.017	0.020	0.024
	NC	-	-	-	-	-	-	-	23	27	30	33
20 Ak = 1.779	CFM	534	712	890	1068	1245	1423	1601	1779	1957	2135	2313
	Throw	6 - 9 - 17	7 - 11 - 22	9 - 14 - 27	11 - 17 - 34	13 - 20 - 39	15 - 22 - 44	16 - 25 - 49	18 - 27 - 54	20 - 31 - 61	22 - 33 - 66	24 - 36 - 71
	Ps	0.001	0.001	0.002	0.003	0.003	0.004	0.006	0.007	0.008	0.010	0.012
	NC	-	-	-	-	-	-	23	26	29	32	34



ENGINEERING DATA

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Listed Size Outlet Area	Vk Outlet Velocity (FPM)											
	300	400	500	600	700	800	900	1000	1100	1200	1300	
6 Ak = .125	CFM	38	50	63	75	88	100	113	125	138	150	163
	Throw	3 - 4 - 8	4 - 6 - 12	5 - 7 - 14	6 - 9 - 17	6 - 10 - 19	7 - 11 - 21	8 - 13 - 25	9 - 14 - 27	10 - 15 - 30	11 - 17 - 34	13 - 19 - 38
	Ps	0.004	0.007	0.011	0.016	0.021	0.028	0.035	0.044	0.053	0.063	0.074
	NC	-	-	-	-	-	-	-	-	-	-	-
8 Ak = .229	CFM	69	92	115	138	161	184	206	229	252	275	298
	Throw	3 - 5 - 10	4 - 7 - 13	5 - 8 - 16	6 - 10 - 19	7 - 11 - 22	8 - 13 - 25	10 - 16 - 29	10 - 16 - 31	12 - 18 - 35	13 - 19 - 38	14 - 21 - 41
	Ps	0.004	0.007	0.011	0.015	0.021	0.027	0.035	0.043	0.052	0.062	0.072
	NC	-	-	-	-	-	-	-	-	-	-	-
10 Ak = .367	CFM	110	147	183	220	257	293	330	367	403	440	477
	Throw	3 - 5 - 10	5 - 7 - 14	6 - 9 - 17	7 - 11 - 21	8 - 12 - 24	10 - 15 - 29	11 - 16 - 32	12 - 18 - 36	13 - 20 - 39	14 - 22 - 43	15 - 23 - 46
	Ps	0.004	0.007	0.010	0.015	0.021	0.027	0.034	0.042	0.051	0.060	0.071
	NC	-	-	-	-	-	-	-	-	-	-	-
12 Ak = .538	CFM	161	215	269	323	376	430	484	538	592	645	699
	Throw	4 - 6 - 12	5 - 8 - 16	7 - 10 - 20	8 - 12 - 24	9 - 14 - 28	10 - 16 - 31	12 - 18 - 36	13 - 20 - 39	15 - 22 - 44	16 - 24 - 47	17 - 26 - 51
	Ps	0.004	0.007	0.010	0.015	0.020	0.026	0.033	0.041	0.049	0.059	0.069
	NC	-	-	-	-	-	-	-	-	-	-	21
14 Ak = .743	CFM	223	297	372	446	520	595	669	743	818	892	966
	Throw	4 - 6 - 12	6 - 9 - 17	7 - 11 - 21	8 - 13 - 25	10 - 15 - 29	11 - 17 - 33	13 - 19 - 38	14 - 21 - 42	15 - 23 - 45	17 - 25 - 50	18 - 27 - 54
	Ps	0.004	0.006	0.010	0.014	0.019	0.025	0.032	0.039	0.047	0.056	0.066
	NC	-	-	-	-	-	-	-	-	-	22	25
16 Ak = .984	CFM	295	394	492	590	689	787	886	984	1082	1181	1279
	Throw	4 - 7 - 13	6 - 9 - 17	7 - 11 - 22	9 - 13 - 26	10 - 15 - 30	12 - 18 - 35	13 - 20 - 39	15 - 22 - 44	16 - 24 - 48	17 - 26 - 52	19 - 29 - 57
	Ps	0.003	0.006	0.009	0.014	0.018	0.024	0.030	0.038	0.045	0.054	0.063
	NC	-	-	-	-	-	-	-	-	22	25	28
18 Ak = 1.260	CFM	378	504	630	756	882	1008	1134	1260	1386	1512	1638
	Throw	5 - 7 - 14	6 - 9 - 18	8 - 12 - 23	9 - 14 - 28	11 - 16 - 32	12 - 19 - 37	14 - 21 - 41	15 - 23 - 45	17 - 26 - 51	18 - 28 - 55	20 - 30 - 59
	Ps	0.003	0.006	0.009	0.013	0.018	0.023	0.029	0.036	0.043	0.051	0.060
	NC	-	-	-	-	-	-	-	22	26	29	32
20 Ak = 1.572	CFM	472	629	786	943	1101	1258	1415	1572	1730	1887	2044
	Throw	5 - 8 - 15	6 - 10 - 19	8 - 12 - 24	10 - 15 - 30	11 - 17 - 34	13 - 19 - 38	14 - 22 - 43	16 - 24 - 47	18 - 27 - 53	19 - 29 - 58	21 - 31 - 62
	Ps	0.003	0.005	0.008	0.012	0.016	0.021	0.027	0.033	0.040	0.048	0.057
	NC	-	-	-	-	-	-	21	25	28	31	34



ENGINEERING DATA

RA50, RA54

Listed Size Outlet Area	Vk Outlet Velocity (FPM)											
	300	400	500	600	700	800	900	1000	1100	1200	1300	
6 Ak = .102	CFM	31	41	51	61	72	82	92	102	113	123	133
	Throw	2 - 3 - 6	3 - 5 - 9	3 - 5 - 10	4 - 6 - 12	5 - 7 - 14	5 - 8 - 15	6 - 9 - 18	7 - 10 - 20	7 - 11 - 22	8 - 12 - 24	9 - 14 - 27
	Ps	0.006	0.011	0.018	0.025	0.035	0.045	0.057	0.071	0.085	0.101	0.119
	NC	-	-	-	-	-	-	-	-	-	-	-
8 Ak = .180	CFM	54	72	90	108	126	144	162	180	198	216	234
	Throw	2 - 4 - 7	3 - 5 - 9	4 - 6 - 11	5 - 7 - 14	5 - 8 - 15	6 - 9 - 18	7 - 10 - 20	7 - 11 - 22	8 - 13 - 25	9 - 14 - 27	10 - 15 - 29
	Ps	0.006	0.011	0.017	0.025	0.034	0.044	0.056	0.069	0.083	0.099	0.116
	NC	-	-	-	-	-	-	-	-	-	23	26
10 Ak = .278	CFM	83	111	139	167	195	222	250	278	306	334	361
	Throw	2 - 4 - 7	3 - 5 - 10	4 - 6 - 12	5 - 8 - 15	6 - 9 - 17	7 - 10 - 20	8 - 12 - 23	8 - 13 - 25	9 - 14 - 28	10 - 15 - 30	11 - 17 - 33
	Ps	0.006	0.011	0.017	0.024	0.033	0.042	0.054	0.066	0.080	0.096	0.112
	NC	-	-	-	-	-	-	-	-	21	24	26
12 Ak = .397	CFM	119	159	199	238	278	318	357	397	437	477	516
	Throw	3 - 5 - 9	4 - 6 - 11	5 - 7 - 14	5 - 8 - 16	7 - 10 - 20	7 - 11 - 22	8 - 13 - 25	9 - 14 - 27	10 - 15 - 30	11 - 17 - 33	12 - 18 - 36
	Ps	0.006	0.010	0.016	0.023	0.031	0.041	0.052	0.064	0.077	0.092	0.107
	NC	-	-	-	-	-	-	-	-	21	24	26
14 Ak = .537	CFM	161	215	268	322	376	429	483	537	591	644	698
	Throw	3 - 5 - 9	4 - 6 - 12	5 - 8 - 15	6 - 9 - 18	7 - 10 - 20	8 - 12 - 23	9 - 14 - 27	10 - 15 - 30	11 - 16 - 32	12 - 18 - 35	13 - 19 - 38
	Ps	0.005	0.010	0.015	0.022	0.030	0.039	0.049	0.060	0.073	0.087	0.102
	NC	-	-	-	-	-	-	-	-	22	26	30
16 Ak = .697	CFM	209	279	349	418	488	558	627	697	767	836	906
	Throw	3 - 5 - 9	4 - 6 - 12	5 - 8 - 15	6 - 9 - 18	7 - 11 - 22	8 - 13 - 25	9 - 14 - 28	10 - 16 - 31	11 - 17 - 34	12 - 19 - 37	13 - 20 - 40
	Ps	0.005	0.009	0.014	0.020	0.028	0.036	0.046	0.057	0.069	0.082	0.096
	NC	-	-	-	-	-	-	-	20	23	26	30
18 Ak = .878	CFM	263	351	439	527	614	702	790	878	965	1053	1141
	Throw	3 - 5 - 10	4 - 7 - 13	5 - 8 - 16	7 - 10 - 20	8 - 12 - 23	9 - 13 - 26	10 - 15 - 29	11 - 16 - 32	12 - 18 - 36	13 - 20 - 39	14 - 21 - 42
	Ps	0.005	0.008	0.013	0.019	0.026	0.034	0.043	0.053	0.064	0.076	0.089
	NC	-	-	-	-	-	-	-	20	24	27	30
20 Ak = 1.078	CFM	323	431	539	647	755	863	970	1078	1186	1294	1402
	Throw	4 - 6 - 11	5 - 7 - 14	6 - 9 - 17	7 - 11 - 21	8 - 12 - 24	9 - 14 - 27	10 - 15 - 30	11 - 17 - 33	13 - 19 - 38	14 - 21 - 41	15 - 22 - 44
	Ps	0.004	0.008	0.012	0.017	0.023	0.031	0.039	0.048	0.058	0.069	0.081
	NC	-	-	-	-	-	-	-	21	24	28	31

