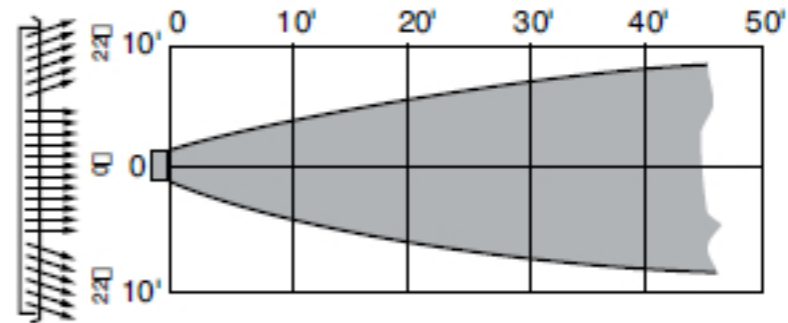
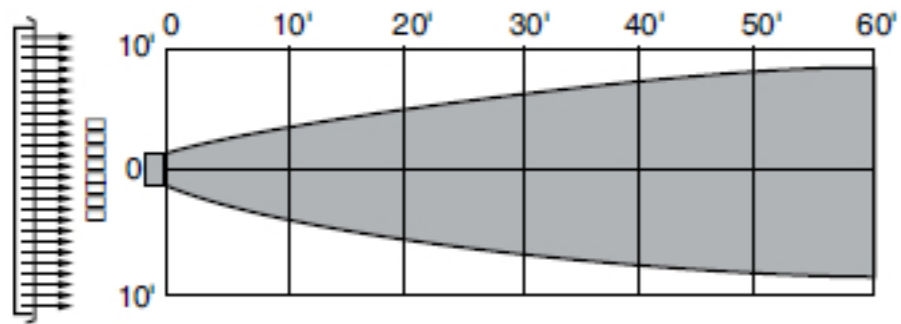


Deflection A

Face Velocity		400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000
Pressure Loss		.010	.016	.022	.031	.040	.050	.062	.075	.090	.105	.122	.160	.202	.249
8 x 4	CFM	65	80	100	110	130	145	160	175	190	210	225	255	290	320
Ak .160	Throw	6.5	8.0	10.0	11.0	13.0	15.0	16.0	18.0	19.0	21.0	23.0	26.0	29.0	32.0
10 x 4	CFM	80	100	120	140	160	180	200	220	240	265	285	325	365	405
Ak .202	Throw	7.0	9.0	11.0	13.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	29.0	33.0	36.0
12 x 4	CFM	100	120	145	170	195	220	245	270	295	315	340	390	440	490
Ak .244	Throw	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	32.0	36.0	40.0
14 x 4	CFM	115	145	170	200	230	255	285	315	345	370	400	460	515	570
Ak .286	Throw	8.5	11.0	13.0	15.0	17.0	19.0	22.0	24.0	26.0	28.0	30.0	35.0	39.0	43.0
12 x 5	CFM	125	155	190	220	250	280	310	345	375	405	435	500	560	625
Ak .312	Throw	9.0	11.0	14.0	16.0	18.0	20.0	22.0	25.0	27.0	29.0	31.0	36.0	41.0	45.0
10 x 6	CFM	125	155	190	220	250	285	315	345	375	410	440	500	565	630
Ak .314	Throw	9.0	11.0	14.0	16.0	18.0	21.0	23.0	25.0	27.0	30.0	32.0	36.0	41.0	45.0
14 x 5	CFM	145	185	220	255	295	330	365	405	440	475	510	585	660	730
Ak .366	Throw	10.0	12.0	15.0	17.0	20.0	22.0	24.0	27.0	29.0	32.0	34.0	39.0	44.0	49.0
12 x 6	CFM	150	190	225	265	305	340	380	415	455	495	530	605	680	760
Ak .379	Throw	10.0	12.0	15.0	17.0	20.0	22.0	25.0	27.0	30.0	33.0	35.0	40.0	45.0	50.0
16 x 5	CFM	170	210	250	295	335	380	420	460	505	545	585	670	755	840
Ak .419	Throw	11.0	13.0	16.0	18.0	21.0	24.0	26.0	29.0	32.0	34.0	37.0	42.0	47.0	53.0
14 x 6	CFM	180	220	265	310	355	400	445	490	535	575	620	710	800	890
Ak .444	Throw	11.0	13.0	16.0	19.0	22.0	24.0	27.0	30.0	32.0	35.0	38.0	43.0	49.0	54.0
16 x 6	CFM	205	255	305	355	410	460	510	560	610	665	715	815	920	1020
Ak .510	Throw	12.0	15.0	17.0	20.0	23.0	26.0	29.0	32.0	35.0	38.0	41.0	47.0	53.0	58.0
20 x 5	CFM	210	265	315	370	420	475	525	580	630	685	735	840	945	1050
Ak .526	Throw	12.0	15.0	18.0	21.0	23.0	27.0	29.0	32.0	35.0	38.0	41.0	47.0	53.0	59.0
24 x 5	CFM	255	315	380	445	505	570	635	695	760	825	890	1015	1140	1270
Ak .634	Throw	13.0	16.0	19.0	23.0	26.0	29.0	32.0	35.0	39.0	42.0	45.0	52.0	58.0	65.0
20 x 6	CFM	255	320	385	445	510	575	640	705	770	830	895	1015	1140	1270
Ak .640	Throw	13.0	16.0	19.0	23.0	26.0	29.0	32.0	36.0	39.0	42.0	45.0	52.0	58.0	65.0
24 x 6	CFM	310	385	465	540	615	695	770	850	925	1000	1080	1235	1390	1540
Ak .771	Throw	14.0	18.0	21.0	25.0	28.0	32.0	35.0	39.0	43.0	46.0	50.0	57.0	64.0	71.0
20 x 8	CFM	345	435	520	610	695	780	870	955	1040	1130	1215	1390	1560	1735
Ak .868	Throw	15.0	19.0	23.0	26.0	30.0	34.0	38.0	41.0	45.0	49.0	53.0	60.0	68.0	75.0
30 x 6	CFM	385	485	580	675	775	870	965	1065	1160	1255	1355	1545	1740	1935
Ak .967	Throw	16.0	20.0	24.0	28.0	32.0	36.0	40.0	44.0	48.0	51.0	56.0	63.0	71.0	79.0
24 x 8	CFM	420	525	625	730	835	940	1045	1150	1255	1360	1465	1670	1880	2090
Ak 1.045	Throw	17.0	21.0	25.0	29.0	33.0	37.0	41.0	46.0	50.0	54.0	58.0	66.0	74.0	83.0
30 x 8	CFM	525	655	785	915	1050	1180	1310	1440	1570	1705	1835	2095	2360	2620
Ak 1.310	Throw	19.0	23.0	28.0	32.0	37.0	42.0	46.0	51.0	56.0	60.0	65.0	74.0	84.0	93.0
24 x 10	CFM	530	660	790	925	1055	1185	1320	1450	1585	1715	1845	2110	2375	2640
Ak 1.319	Throw	19.0	23.0	28.0	33.0	37.0	42.0	46.0	51.0	56.0	60.0	65.0	74.0	84.0	93.0
36 x 8	CFM	630	790	945	1105	1260	1420	1575	1735	1890	2050	2205	2520	2835	3150
Ak 1.576	Throw	20.0	25.0	30.0	36.0	41.0	46.0	51.0	56.0	61.0	66.0	71.0	81.0	91.0	101.0
24 x 12	CFM	635	795	995	1115	1275	1435	1595	1750	1910	2070	2230	2550	2865	3185
Ak 1.593	Throw	20.0	25.0	31.0	36.0	41.0	47.0	51.0	56.0	61.0	66.0	71.0	82.0	92.0	102.0
30 x 10	CFM	660	825	990	1160	1325	1490	1655	1820	1985	2150	2315	2645	2975	3310
Ak 1.654	Throw	21.0	26.0	31.0	37.0	42.0	47.0	52.0	57.0	63.0	68.0	73.0	83.0	94.0	104.0
36 x 10	CFM	795	995	1195	1390	1590	1790	1990	2190	2385	2585	2785	3180	3580	3980
Ak 1.989	Throw	23.0	29.0	34.0	40.0	46.0	51.0	57.0	63.0	68.0	74.0	80.0	91.0	103.0	114.0
30 x 12	CFM	800	1000	1200	1400	1600	1800	2000	2200	2395	2595	2795	3195	3595	3995
Ak 1.997	Throw	23.0	29.0	34.0	40.0	45.0	51.0	57.0	63.0	68.0	74.0	80.0	91.0	103.0	114.0
36 x 12	CFM	960	1200	1440	1680	1920	2160	2400	2640	2880	3120	3365	3845	4325	4805
Ak 2.402	Throw	25.0	31.0	38.0	44.0	50.0	56.0	63.0	69.0	75.0	81.0	88.0	100.0	113.0	125.0

Deflection C

Face Velocity		400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000
Pressure Loss		.010	.016	.022	.031	.040	.050	.062	.075	.090	.105	.122	.160	.202	.249
8 x 4	CFM	55	70	85	100	110	125	140	155	170	180	195	225	250	280
Ak .140	Throw	5.0	6.0	7.5	8.5	9.5	11.0	12.0	14.0	15.0	16.0	17.0	20.0	22.0	24.0
10 x 4	CFM	70	90	105	125	140	160	180	195	215	230	250	285	320	355
Ak .178	Throw	5.0	7.0	8.0	9.5	11.0	12.0	14.0	15.0	17.0	18.0	19.0	22.0	25.0	28.0
12 x 4	CFM	85	110	130	150	170	195	215	235	260	280	300	345	385	430
Ak .215	Throw	6.0	8.0	9.0	11.0	12.0	14.0	15.0	17.0	18.0	20.0	21.0	24.0	27.0	30.0
14 x 4	CFM	100	125	150	175	200	225	250	275	300	330	355	405	455	505
Ak .252	Throw	6.5	8.0	10.0	11.0	13.0	15.0	16.0	18.0	20.0	22.0	23.0	26.0	30.0	33.0
12 x 5	CFM	110	135	165	190	220	245	275	300	330	355	385	440	495	550
Ak .274	Throw	7.0	8.5	10.0	12.0	14.0	15.0	17.0	19.0	21.0	22.0	24.0	28.0	31.0	34.0
10 x 6	CFM	110	140	165	195	220	245	275	305	330	360	385	440	495	550
Ak .276	Throw	7.0	8.5	10.0	12.0	14.0	15.0	17.0	19.0	21.0	22.0	24.0	27.0	31.0	34.0
14 x 5	CFM	130	160	195	225	255	290	320	355	385	415	450	515	580	645
Ak .321	Throw	7.5	9.0	11.0	13.0	15.0	17.0	18.0	21.0	22.0	24.0	26.0	30.0	34.0	37.0
12 x 6	CFM	135	165	200	235	265	300	335	365	400	435	465	535	600	665
Ak .333	Throw	7.5	9.5	11.0	13.0	15.0	17.0	19.0	21.0	23.0	25.0	26.0	30.0	34.0	38.0
16 x 5	CFM	150	185	220	260	295	330	370	405	445	480	515	590	665	740
Ak .369	Throw	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	32.0	36.0	40.0
14 x 6	CFM	155	195	235	275	315	350	390	430	470	510	545	625	705	780
Ak .391	Throw	8.0	10.0	12.0	14.0	17.0	18.0	20.0	23.0	25.0	27.0	29.0	33.0	37.0	41.0
16 x 6	CFM	180	225	270	315	360	405	450	495	540	580	625	715	805	895
Ak .448	Throw	9.0	11.0	13.0	15.0	18.0	20.0	22.0	24.0	26.0	28.0	31.0	35.0	39.0	44.0
20 x 5	CFM	185	230	280	325	370	415	465	510	555	600	650	740	835	925
Ak .463	Throw	9.0	11.0	13.0	16.0	18.0	20.0	22.0	25.0	27.0	29.0	31.0	36.0	40.0	44.0
24 x 5	CFM	225	280	335	390	445	500	555	615	670	725	780	890	1005	1115
Ak .557	Throw	10.0	12.0	15.0	17.0	19.0	22.0	24.0	27.0	29.0	32.0	34.0	40.0	44.0	49.0
20 x 6	CFM	225	280	340	395	450	505	565	620	675	730	790	900	1015	1125
Ak .563	Throw	10.0	12.0	15.0	17.0	20.0	22.0	25.0	27.0	29.0	32.0	34.0	39.0	44.0	49.0
24 x 6	CFM	270	340	405	475	540	610								



* less than or equal to

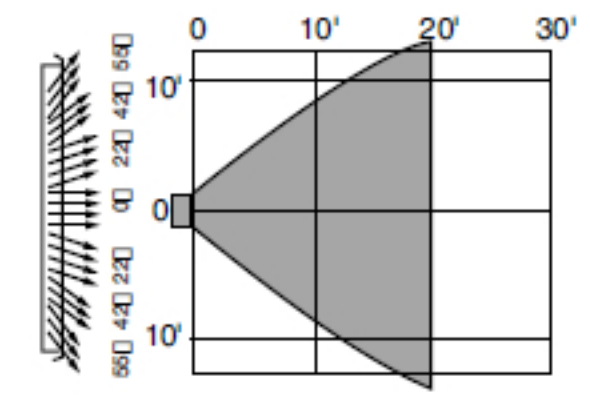
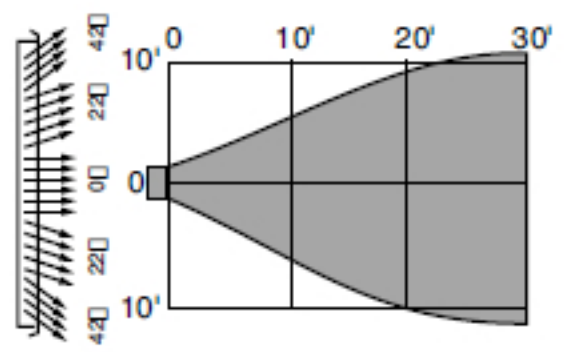
** greater than or equal to

Deflection E

Face Velocity		400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000
Pressure Loss		.010	.016	.022	.031	.040	.050	.062	.075	.090	.105	.122	.160	.202	.249
8 x 4	CFM	50	60	75	85	100	110	125	135	150	160	175	200	225	250
Ak .124	Throw	3.5	4.5	5.5	6.0	7.5	8.0	9.0	10.0	11.0	12.0	13.0	15.0	16.0	18.0
10 x 4	CFM	65	80	95	110	125	140	155	175	190	205	220	250	285	315
Ak .157	Throw	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	16.0	19.0	20.0
12 x 4	CFM	75	95	115	135	150	170	190	210	230	245	265	305	340	380
Ak .190	Throw	4.5	5.5	7.0	8.0	9.0	10.0	11.0	12.0	14.0	15.0	16.0	18.0	20.0	22.0
14 x 4	CFM	90	110	135	155	180	200	220	245	265	290	310	355	400	445
Ak .222	Throw	5.0	6.0	7.5	8.5	10.0	11.0	12.0	13.0	14.0	16.0	17.0	19.0	22.0	24.0
12 x 5	CFM	95	120	145	170	195	220	240	265	290	315	340	385	435	485
Ak .242	Throw	5.0	6.5	7.5	9.0	10.0	12.0	13.0	14.0	15.0	17.0	18.0	20.0	23.0	25.0
10 x 6	CFM	100	120	145	170	195	220	245	270	295	315	340	390	440	490
Ak .244	Throw	5.0	6.5	7.5	9.0	10.0	11.0	13.0	14.0	15.0	16.0	18.0	20.0	23.0	26.0
14 x 5	CFM	115	140	170	200	225	255	285	310	340	370	400	455	510	570
Ak .284	Throw	5.5	7.0	8.0	9.5	11.0	12.0	14.0	15.0	16.0	18.0	19.0	22.0	25.0	28.0
12 x 6	CFM	120	145	175	205	235	265	295	325	355	380	410	470	530	590
Ak .294	Throw	5.5	7.0	8.5	9.5	11.0	13.0	14.0	15.0	17.0	18.0	19.0	22.0	25.0	28.0
16 x 5	CFM	130	165	195	230	260	295	325	360	390	425	455	520	585	650
Ak .325	Throw	6.0	7.5	9.0	10.0	12.0	13.0	15.0	16.0	18.0	19.0	21.0	24.0	26.0	29.0
14 x 6	CFM	140	175	205	240	275	310	345	380	415	450	485	550	620	690
Ak .345	Throw	6.0	7.5	9.0	11.0	12.0	14.0	15.0	17.0	18.0	20.0	21.0	24.0	27.0	30.0
16 x 6	CFM	16	200	240	275	315	355	395	435	475	515	555	635	715	790
Ak .396	Throw	6.5	8.0	10.0	11.0	13.0	15.0	16.0	18.0	19.0	21.0	23.0	26.0	29.0	32.0
20 x 5	CFM	165	205	245	285	325	365	410	450	490	530	570	655	735	815
Ak .408	Throw	6.5	8.5	10.0	11.0	13.0	15.0	17.0	18.0	20.0	21.0	23.0	26.0	30.0	33.0
24 x 5	CFM	195	245	295	345	395	445	490	540	590	640	690	785	885	985
Ak .492	Throw	7.0	9.0	11.0	13.0	14.0	16.0	18.0	20.0	22.0	23.0	25.0	29.0	32.0	36.0
20 x 6	CFM	200	250	300	350	400	445	495	545	595	645	695	795	895	995
Ak .497	Throw	7.5	9.0	11.0	13.0	15.0	16.0	18.0	20.0	22.0	24.0	25.0	29.0	33.0	36.0
24 x 6	CFM	240	300	360	420	480	540	600	660	720	775	835	955	1075	1195
Ak .598	Throw	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	32.0	36.0	40.0
20 x 8	CFM	270	335	405	470	540	605	675	740	810	875	940	1075	1210	1345
Ak .673	Throw	8.5	11.0	13.0	15.0	17.0	19.0	21.0	23.0	25.0	27.0	30.0	34.0	38.0	42.0
30 x 6	CFM	300	375	450	525	600	675	750	825	900	975	1050	1200	1350	1500
Ak .750	Throw	9.0	11.0	13.0	16.0	18.0	20.0	22.0	25.0	27.0	29.0	31.0	36.0	40.0	45.0
24 x 8	CFM	325	405	485	570	650	730	810	890	975	1055	1135	1300	1480	1620
Ak .811	Throw	9.5	12.0	14.0	16.0	19.0	21.0	23.0	25.0	28.0	30.0	32.0	37.0	42.0	46.0
30 x 8	CFM	405	510	610	710	815	915	1015	1120	1220	1320	1425	1625	1830	2035
Ak 1.017	Throw	11.0	13.0	16.0	18.0	21.0	23.0	26.0	29.0	31.0	34.0	36.0	42.0	47.0	52.0
24 x 10	CFM	410	510	615	715	820	920	1025	1125	1230	1330	1430	1635	1840	2045
Ak 1.023	Throw	10.0	13.0	16.0	18.0	21.0	23.0	26.0	29.0	31.0	34.0	36.0	42.0	47.0	52.0
36 x 8	CFM	490	610	735	855	980	1100	1220	1345	1465	1590	1710	1955	2200	2445
Ak 1.222	Throw	11.0	14.0	17.0	20.0	23.0	26.0	28.0	31.0	34.0	37.0	40.0	46.0	51.0	57.0
24 x 12	CFM	495	620	740	865	990	1110	1235	1360	1485	1605	1730	1975	2225	2470
Ak 1.236	Throw	11.0	14.0	17.0	20.0	23.0	26.0	29.0	32.0	34.0	37.0	40.0	46.0	52.0	57.0
30 x 10	CFM	515	640	770	900	1025	1155	1285	1410	1540	1670	1795	2055	2310	2565
Ak 1.283	Throw	12.0	15.0	17.0	20.0	23.0	26.0	29.0	32.0	35.0	38.0	42.0	46.0	52.0	58.0
36 x 10	CFM	615	770	925	1080	1235	1390	1545	1700	1850	2005	2160	2470	2775	3085
Ak 1.543	Throw	13.0	16.0	19.0	22.0	26.0	29.0	32.0	35.0	38.0	42.0	45.0	51.0	57.0	64.0
30 x 12	CFM	620	775	930	1085	1240	1395	1550	1705	1860	2015	2170	2480	2790	3100
Ak 1.550	Throw	13.0	16.0	19.0	22.0	26.0	29.0	32.0	35.0	39.0	42.0	45.0	51.0	58.0	64.0
36 x 12	CFM	745	930	1120	1305	1490	1680	1865	2050	2235	2425	2610	2980	3355	3730
Ak 1.864	Throw	14.0	18.0	21.0	25.0	28.0	32.0	35.0	39.0	42.0	46.0	49.0	56.0	63.0	70.0

Deflection G

Face Velocity		400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000
Pressure Loss		.010	.016	.022	.031	.040	.050	.062	.075	.090	.105	.122	.160	.202	.249
8 x 4	CFM	50	60	70	85	95	105	120	130	145	155	165	190	215	240
Ak .119	Throw	2.5	3.0	4.0	4.5	5.0	5.5	6.5	7.0	8.0	8.5	9.0	10.0	12.0	13.0
10 x 4	CFM	55	70	85	100	115	130	145	155	170	185	200	230	255	285
Ak .143	Throw	2.5	3.5	4.0	5.0	5.5	6.5	7.0	7.5	8.0	9.0	9.5	11.0	12.0	14.0
12 x 4	CFM	70	85	105	120	140	155	175	190	210	225	240	275	310	345
Ak .173	Throw	3.0	3.5	4.5	5.5	6.0	7.0	7.5	8.5	9.0	10.0	11.0	12.0	14.0	15.0
14 x 4	CFM	80	100	120	140	160	180	200	220	240	265	285	325	365	405
Ak .202	Throw	3.0	4.0	5.0	5.5	6.5	7.5	8.0	9.0	9.5	11.0	12.0	13.0	15.0	16.0
12 x 5	CFM	90	110	130	155	175	200	220	240	265	285	310	350	395	440
Ak .220	Throw	3.5	4.5	5.0	6.0	7.0	8.0	8.5	9.5	10.0	11.0	12.0	14.0	15.0	17.0
10 x 6	CFM	90	110	135	155	180	200	220	245	265	290	310	355	400	445
Ak .222	Throw	3.5	4.5	5.0	6.0	7.0	7.5	8.5	9.5	10.0	11.0	12.0	14.0	15.0	17.0
14 x 5	CFM	105	130	155	180	205	230	260	285	310	335	360	415	465	515
Ak .258	Throw	4.0	4.5	5.5	6.5	7.5	8.5	9.5	10.0	11.0	12.0	13.0	15.0	17.0	18.0
12 x 6	CFM	105	135	160	190	215	240	270	295	320	350	375	430	480	535
Ak .268	Throw	4.0	5.0	5.5	6.5	7.5	8.5	9.5	10.0	11.0	12.0	13.0	15.0	17.0	19.0
16 x 5	CFM	120	150	180	205	235	265	295	325	355	385	415	475	535	590
Ak .296	Throw	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	16.0	18.0	20.0
14 x 6	CFM	125	155	190	220	250	285	315	345	375	410	440	500	565	630
Ak .314	Throw	4.0	5.0	6.0	7.0	8.0	9.5	10.0	11.0	12.0	13.0	14.0	16.0	18.0	20.0
16 x 6	CFM	145	180	215	250	290	325	360	395	430	470	505	575	650	720
Ak .360	Throw	4.5	5.5	6.5	7.5	9.0	10.0	11.0	12.0	13.0	14.0	15.0	17.0	20.0	22.0
20 x 5	CFM	150	185	225	260	300	335	370	410	445	485	520	595	670	745
Ak .372	Throw	4.5	5.5	6.5	7.5	9.0	10.0	11.0	12.0	13.0	14.0	15.0	18.0	20.0	22.0
24 x 5	CFM	180	225	270	315	360	405	450	495	540	580	625	715	805	895
Ak .448	Throw	5.0	7.5	7.5	8.5	10.0	11.0	12.0	13.0	15.0	16.0	17.0	19.0	22.0	24.0
20 x 6	CFM	180	225	270	315	360	410	455	500	545	590	635	725	815	905
Ak .453	Throw	5.0	6.0	7.5	8.5	10.0	11.0	12.0	14.0	15.0	16.0	17.0	20.0	22.0	25.0
24 x 6	CFM	220	275	325	380	435	490	545	600	655	710	765	870	980	1090
Ak .545	Throw	5.5	7.0	8.0	9.5	11.0	12.0	13.0	15.0	16.0	18.0	19.0	21.0	24.0	27.0
20 x 8	CFM	245	305	370	430	490	555	615	675	735	800	860	980	1105	1230
Ak .614	Throw	5.5	7.0	8.5	10.0	11.0	13.0	14.0	16						



* less than or equal to

** greater than or equal to