

TG, TGF Transfer Grilles (Page 27)

Face Velocity*		200	300	400	500	600	700	800
8 x 8	CFM	90	130	180	220	265	310	350
Ak .440	Ps	.08	.17	.30	.47	.68	.93	1.20
14 x 6	CFM	110	165	220	275	330	385	440
Ak .550	Ps	.07	.16	.30	.46	.65	.90	1.20
12 x 8	CFM	130	190	255	320	385	450	510
Ak .640	Ps	.07	.16	.29	.45	.64	.88	1.10
14 x 8	CFM	150	220	295	370	445	520	590
Ak .740	Ps	.07	.16	.28	.44	.63	.87	1.10
20 x 6	CFM	155	235	310	390	470	545	625
Ak .780	Ps	.07	.16	.28	.44	.62	.86	1.10
12 x 12	CFM	185	280	370	465	560	650	745
Ak .930	Ps	.07	.15	.27	.43	.61	.84	1.10
30 x 6	CFM	225	335	450	560	670	785	895
Ak 1.120	Ps	.07	.15	.26	.42	.60	.82	1.10
16 x 12	CFM	240	360	475	595	715	835	950
Ak 1.190	Ps	.07	.15	.26	.41	.59	.81	1.10
18 x 12	CFM	265	400	530	665	800	930	1065
Ak 1.330	Ps	.07	.15	.26	.41	.58	.88	1.00
20 x 12	CFM	290	440	585	730	875	1020	1170
Ak 1.460	Ps	.06	.15	.26	.40	.58	.79	1.00
16 x 16	CFM	310	460	615	770	925	1080	1230
Ak 1.540	Ps	.06	.14	.25	.40	.57	.78	1.00
24 x 12	CFM	350	525	700	875	1050	1225	1400
Ak 1.750	Ps	.06	.14	.25	.39	.56	.77	1.00
18 x 18	CFM	390	585	780	975	1170	1365	1560
Ak 1.950	Ps	.06	.14	.25	.39	.55	.76	.99
30 x 12	CFM	435	650	870	1085	1300	1520	1740
Ak 2.170	Ps	.06	.14	.25	.38	.54	.75	.98
20 x 20	CFM	485	730	970	1210	1450	1690	1940
Ak 2.420	Ps	.06	.14	.24	.38	.54	.74	.97
24 x 18	CFM	510	765	1020	1275	1530	1785	2040
Ak 2.550	Ps	.06	.14	.24	.37	.53	.73	.96
30 x 18	CFM	650	970	1290	1620	1940	2260	2580
Ak 3.230	Ps	.06	.13	.23	.36	.51	.71	.93
24 x 24	CFM	680	1020	1360	1700	2040	2380	2720
Ak 3.400	Ps	.06	.13	.23	.36	.51	.70	.92
30 x 24	CFM	840	1250	1670	2090	2510	2930	3340
Ak 4.180	Ps	.06	.13	.22	.35	.50	.68	.89
30 x 30	CFM	1030	1550	2060	2580	3090	3610	4120
Ak 5.150	Ps	.05	.12	.22	.34	.48	.66	.86

*Velocity measured 1" from face.

20 Round Diffuser (Page 28)

Neck Velocity		400	500	600	700	800	900	1000	1200	1400
6"	CFM	80	100	120	140	160	180	200	235	275
	Ps	<.010	<.010	<.010	<.010	0.014	0.02	0.02	0.03	0.03
	Throw	2.00	2.00	2.0	3.0	3.0	4.0	4.0	5.0	6.0
8"	CFM	140	175	210	245	280	315	350	420	490
	Ps	<.010	<.010	<.010	<.010	0.01	0.02	0.02	0.03	0.04
	Throw	3.5	3.0	3.0	4.0	4.0	5.0	5.0	7.0	8.0
10"	CFM	218	273	327	382	436	491	545	654	763
	Ps	<.010	<.010	<.010	0.01	0.01	0.02	0.02	0.03	0.04
	Throw	3.0	3.0	4.0	5.0	5.0	6.0	7.0	8.0	10.0
12"	CFM	315	390	470	550	630	705	785	940	1100
	Ps	<.010	<.010	<.010	0.01	0.01	0.02	0.02	0.03	0.04
	Throw	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0
14"	CFM	425	530	635	745	850	955	1060	1270	1490
	Ps	<.010	<.010	<.010	0.01	0.01	0.02	0.02	0.03	0.04
	Throw	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	13.0
16"	CFM	560	700	840	980	1120	1260	1400	1680	1960
	Ps	<.010	<.010	<.010	0.01	0.01	0.02	0.02	0.03	0.04
	Throw	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	13.0
18"	CFM	710	885	1060	1240	1420	1590	1770	2120	2480
	Ps	<.010	<.010	<.010	0.01	0.01	0.02	0.02	0.03	0.04
	Throw	5.0	6.0	7.0	9.0	10.0	11.0	12.0	15.0	17.0

NOTE: The use of a balancing hood is recommended to balance the system.

Ak = Effective Area in square feet

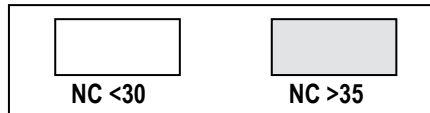
Ps = Static Pressure Loss in inches of water

NC = Noise Criteria, based on a 10dB room attenuation (Re: 10⁻¹² watts) ASHRAE 36-72.

Terminal Velocity of 100 fpm

Product tested with core in "out" position.

When diffusers are used on an exposed duct, multiply throw by 0.7



24 Square Ceiling Diffuser (Page 29)

Face Velocity		300	400	500	600	700	800	900	1000
Pressure Loss		.006	.010	.016	.022	.031	.040	.050	.062
Neck Size 6"	CFM	50	65	85	100	115	130	150	165
Ak .165	Throw	3.5	4.5	5.5	6.5	8.0	9.0	10.0	11.0
Neck Size 8"	CFM	85	110	140	170	195	225	250	280
Ak .280	Throw	4.5	5.5	7.0	8.5	10.0	11.0	12.0	14.0
Neck Size 10"	CFM	125	170	210	250	295	335	380	420
Ak .420	Throw	5.0	6.5	8.0	9.5	11.5	13.0	15.0	16.0
Neck Size 12"	CFM	180	240	300	355	415	475	535	595
Ak .595	Throw	6.0	8.0	10.0	11.5	13.5	15.5	17.5	19.0
Neck Size 14"	CFM	245	330	410	490	575	655	740	820
Ak .820	Throw	7.0	9.0	11.5	13.5	16.0	18.0	20.0	22.5
Neck Size 16"	CFM	310	410	515	620	720	825	925	1030
Ak 1.030	Throw	7.5	10.0	12.5	15.0	18.0	20.0	22.0	25.0
Neck Size 18"	CFM	400	530	665	800	930	1065	1200	1330
Ak 1.330	Throw	8.5	11.0	14.0	17.0	20.0	23.0	26.0	28.0
Neck Size 20"	CFM	480	640	800	960	1120	1280	1440	1600
Ak 1.600	Throw	9.5	12.0	16.0	18.0	22.0	25.0	28.0	31.0
Neck Size 22"	CFM	570	760	950	1140	1330	1520	1710	1900
Ak 1.900	Throw	10.5	13.5	17.0	19.0	24.0	27.0	30.0	33.0
Neck Size 24"	CFM	690	920	1150	1380	1610	1840	2070	2300
Ak 2.300	Throw	11.0	14.5	18.5	22.0	26.0	30.0	33.0	36.0

Terminal Velocity of 50 FPM