

RZ684 Sidewall/Ceiling Diffuser (Page 23)

Face Velocity		300	400	500	600	700	800	900	1000
6 x 6 Ak 0.124	CFM	37	49	62	74	87	99	111	124
	Ps	0.01	0.01	0.02	0.03	0.03	0.05	0.06	0.07
	Throw	NA	NA	NA	NA	NA	NA	NA	NA
8 x 8 Ak 0.231	CFM	69	92	115	139	162	185	208	231
	Ps	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.04
	Throw	NA	NA	NA	NA	NA	NA	NA	NA
10 x 10 Ak 0.347	CFM	104	139	173	208	243	277	312	347
	Ps	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.07
	Throw	NA	NA	NA	NA	NA	NA	NA	NA
12 x 12 Ak 0.510	CFM	153	204	255	306	357	408	459	510
	Ps	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.07
	Throw	NA	NA	NA	NA	NA	NA	NA	NA

NA = Not Available

RZ500 Square Ceiling Diffuser (Page 24)

RZ16 Round Ceiling Diffuser (Page 24)

RZ505 (1-way)

Neck Velocity		300	400	500	600	700
Neck size 6"	CFM	60	80	100	120	135
	Ak 0.284 Ps	0.002	0.004	0.006	0.008	0.011
Vt 75	Throw	2.5	3.5	4	5	6
Vt 100	Throw	2.5	3	4	4.5	5.5
Vt 150	Throw	1.5	2	2.5	3	3.5
Neck size 7"	CFM	82	109	136	164	191
	Ak 0.267 Ps	0.009	0.016	0.025	0.037	0.050
Vt 75	Throw	4	5	6	7.5	8.5
Vt 100	Throw	3.5	4.5	5.5	7	8
Vt 150	Throw	2.5	3	4	4.5	5.5
Neck size 8"	CFM	105	140	175	209	244
	Ak 0.251 Ps	0.016	0.029	0.045	0.065	0.088
Vt 75	Throw	5	6.5	8	9.5	11
Vt 100	Throw	4.5	6	7.5	9	10.5
Vt 150	Throw	3	4	5	6	7

Face Velocity		300	400	500	600	700	800	900	1000
Neck Size 6" Ak 0.224	CFM	67	89	112	134	157	179	201	224
	Ps	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
	Throw	1.5	2	2.5	3	3.5	4	4.5	5
Neck Size 7" Ak 0.229	CFM	69	92	115	137	160	183	206	229
	Ps	0.05	0.09	0.13	0.19	0.26	0.34	0.43	0.53
	Throw	1.75	2.25	2.75	3.25	3.75	4.25	5	5.5
Neck Size 8" Ak 0.235	CFM	70	94	117	141	164	188	211	235
	Ps	0.10	0.17	0.26	0.38	0.52	0.67	0.85	1.05
	Throw	2	2.5	3	3.5	4	4.5	5.5	6

Terminal Velocity of 50 FPM

RZ503 (3-way)

Neck Velocity		300	400	500	600	700
Neck size 6"	CFM	60	80	100	120	135
	Ak 0.247 Ps	0.002	0.004	0.006	0.008	0.011
Vt 75 S/L	Throw	2 2.5	3 3.5	3.5 4.5	4.5 5.5	5 6
Vt 100 S/L	Throw	2 2.5	3 3.5	3.5 4	4 5	5 6
Vt 150 S/L	Throw	1.5 1.5	2 2	2.5 3	3 3.5	3 4
Neck size 7"	CFM	80	110	135	165	190
	Ak 0.243 Ps	0.009	0.016	0.026	0.037	0.050
Vt 75 S/L	Throw	2.5 4	3.5 5.5	4.5 7	5.5 8.5	6 9.5
Vt 100 S/L	Throw	2.5 3.5	3.5 5.3	4 6.3	5 7.5	5.5 9
Vt 150 S/L	Throw	1.8 2.5	2.5 3.5	3 4.5	3.5 5.5	4 6
Neck size 8"	CFM	105	140	175	210	245
	Ak 0.239 Ps	0.016	0.029	0.046	0.066	0.090
Vt 75 S/L	Throw	3 5.5	4 7.5	5 9	6 11	7 13
Vt 100 S/L	Throw	3 5	3.5 7	4.5 8.5	5.5 11	6.5 12
Vt 150 S/L	Throw	2 3.5	2.5 4.5	3 6	3.5 7	4.5 8

RZ504 (4-way)

Neck Velocity		300	400	500	600	700
Neck size 6"	CFM	60	80	100	120	135
	Ak 0.210 Ps	0.001	0.002	0.003	0.005	0.006
Vt 75	Throw	3	3.5	4.5	5.5	6.5
Vt 100	Throw			4.5	5	6
Vt 150	Throw	1.5	2.5	3	3.5	4
Neck size 7"	CFM	80	110	135	165	190
	Ak 0.209 Ps	0.003	0.005	0.008	0.011	0.015
Vt 75	Throw			6	7.5	8.5
Vt 100	Throw	3.5	4.5	5.5	7	8
Vt 150	Throw	2.5	3	4	4.5	5.5
Neck size 8"	CFM	105	140	175	210	245
	Ak 0.209 Ps	0.005	0.008	0.013	0.018	0.025
Vt 75	Throw	4.5	6	7.5	9	10.5
Vt 100	Throw	4	5.5	7	8.5	10
Vt 150	Throw	3	3.5	4.5	5.5	6.5

RZSRT Register (Page 23)

		Neck Velocity fpm									
		400	500	600	700	800	900	1000	1200	1400	1600
6"	cfm	79	98	118	137	157	177	196	236	275	314
	Static Pressure	0.003	0.005	0.006	0.008	0.011	0.013	0.016	0.023	0.031	0.041
	Total Pressure	0.016	0.024	0.034	0.046	0.060	0.076	0.094	0.134	0.183	0.238
	NC	-	-	-	-	-	-	15	22	26	31
8"	cfm	140	175	209	244	279	314	349	419	489	559
	Static Pressure	0.009	0.014	0.021	0.028	0.037	0.046	0.057	0.082	0.111	0.145
	Total Pressure	0.019	0.030	0.043	0.058	0.076	0.096	0.118	0.170	0.231	0.301
	NC	-	-	-	-	18	22	23	31	35	39
10"	cfm	218	273	327	382	436	491	545	654	764	873
	Static Pressure	0.009	0.014	0.021	0.028	0.037	0.047	0.058	0.083	0.113	0.148
	Total Pressure	0.019	0.029	0.042	0.058	0.075	0.095	0.117	0.169	0.230	0.300
	NC	-	-	-	-	18	22	26	31	36	40
12"	cfm	314	393	471	550	628	707	785	942	1100	1257
	Static Pressure	0.015	0.022	0.032	0.044	0.059	0.076	0.095	0.142	0.198	0.264
	Total Pressure	0.025	0.038	0.054	0.074	0.098	0.126	0.157	0.231	0.319	0.422
	NC	-	-	-	18	20	26	29	36	41	45
14"	cfm	428	535	641	748	855	962	1069	1283	1497	1710
	Static Pressure	0.015	0.023	0.033	0.044	0.057	0.072	0.089	0.128	0.175	0.228
	Total Pressure	0.025	0.037	0.053	0.072	0.094	0.119	0.146	0.211	0.287	0.375
	NC	-	-	-	15	21	25	29	35	40	44