

406 18" Baseboard Diffuser (Page 8)

Face Velocity		300	400	500	600	700	800
Pressure Loss		.013	.022	.035	.048	.067	.088
Ak .26	cfm	80	105	130	155	180	210
	Spread	4.5	6.5	7.5	8.5	9.5	11
	Throw	5	7	8	9	10	11

Terminal velocity of 50 fpm.

406 15" Baseboard Diffuser (Page 8)

Face Velocity		300	400	500	600	700	800	900	1000
15"	cfm	48	63	79	95	111	127	143	159
	PS	0.005	0.009	0.014	0.020	0.027	0.035	0.044	0.053
Ak=0.159	Throw	5.5	7.5	9	11	13	14.5	16.5	18.5
	Spread	5.5	7.5	9.5	11.5	13.5	15	17	19
Throw	100	3	3.5	4.5	5.5	6.5	7.5	8.5	9
	fpm	3	3.5	4.5	5.5	6.5	7.5	9	9.5
Throw	150	2	2.5	3	3.5	4.5	5	5.5	6
	fpm	2	2.5	3	3.5	4.5	5	5.5	6

462 & 464 Baseboard Diffusers (Page 8, 9)

Airflow (cfm)		300	400	500	600	700	800
2 Feet	CFM	55	75	95	110	130	150
	Spread	6.5	7.5	8	8.5	9	11
	Throw	7	8	9.5	10.5	12	13
27 sq. in.	Press. loss	.009	.017	.029	.038	.054	.072
	Ak .187						
4 Feet	CFM	110	150	185	225	260	300
	Spread	12	15	17.5	19	20	21
	Throw	7.5	9	10	11.5	12.5	13.5
54 sq. in.	Press. loss	.031	.058	.090	.124	.178	.224
	Ak .375						

Terminal velocity of 50 fpm.

472 & 474 Baseboard Return (Page 8, 9)

Face Velocity		300	400	500	600	700
2 Feet	cfm	100	130	165	195	230
	Ps	.010	.028	.046	.064	.090
4 Feet	cfm	195	260	325	390	455
	Ps	.015	.026	.040	.060	.078

Velocity measured on the face.

654, 655 Baseboard/Sidewall Registers (Page 9, 10)

Face Velocity		300	400	500	600	700	800	900	1000
Pressure Loss		.006	.010	.016	.022	.031	.040	.050	.062
8x4	cfm	33	44	55	66	77	88	100	110
	Throw	6	8	10	12	14	16	18	20
10x4	cfm	40	54	67	80	95	110	120	135
	Throw	6.5	8.5	10.5	12.5	15	17.5	19	21
12x4, 8x6	cfm	55	72	90	108	125	145	162	180
	Throw	7.5	10	12.5	15	17.5	20.5	23	25
10x6	cfm	70	92	115	140	160	185	205	230
	Throw	9	11.5	14.5	17.5	20	23	25.5	29
12x6	cfm	85	115	145	175	205	230	260	290
	Throw	10	13	17	20	23.5	26.5	30	33
14x6	cfm	102	135	170	205	240	270	305	340
	Throw	11	14.5	18	22	25.5	29	32.5	36

Terminal Velocity of 75 fpm

657/658 Baseboard Return Grille (Page 10)

*Average Face Velocity		300	400	500	600	700
10x6	cfm	115	150	190	225	265
	Ak .38	.013	.023	.037	.052	.072
12x6	cfm	135	180	230	280	320
	Ak .46	.013	.022	.035	.051	.070
10x8	cfm	150	205	255	305	355
	Ak .51	.012	.022	.035	.050	.068
14x6	cfm	160	210	265	320	370
	Ak .53	.012	.022	.035	.050	.068
12x8	cfm	180	245	305	365	430
	Ak .61	.012	.022	.034	.049	.066
14x8	cfm	215	288	360	430	505
	Ak .72	.012	.021	.033	.047	.065
20x6	cfm	225	300	375	450	525
	Ak .75	.012	.021	.033	.047	.064
16x8	cfm	250	330	415	500	580
	Ak .83	.012	.021	.033	.046	.063
14x10 & 24x6	cfm	275	365	460	550	640
	Ak .92	.011	.020	.032	.045	.062
14x12	cfm	320	430	540	650	755
	Ak 1.08	.011	.020	.031	.045	.060
30x6	cfm	335	445	560	670	780
	Ak 1.12	.011	.020	.031	.044	.060
24x8	cfm	365	485	605	730	850
	Ak 1.21	.011	.020	.031	.044	.059
20x10	cfm	375	500	630	750	880
	Ak 1.25	.011	.019	.030	.043	.059
24x10 & 30x8	cfm	450	600	750	890	1040
	Ak 1.50	.011	.019	.030	.042	.057
24x12	cfm	550	730	910	1100	1270
	Ak 1.82	.010	.018	.029	.041	.056
30x10	cfm	575	760	960	1150	1330
	Ak 1.91	.010	.018	.029	.041	.055
30x12	cfm	680	900	1130	1350	1570
	Ak 2.25	.010	.018	.028	.040	.054

* Velocity measured 1" from face.

664 Baseboard Register (Page 11)

Face Velocity		300	400	500	600	700	800	900	1000
Pressure Loss		.006	.010	.016	.022	.031	.040	.050	.062
8x6	cfm	55	70	90	110	125	145	160	180
	Throw	5.5	7	9	10.5	12.5	14	16	18
10x6 & 12x5	cfm	75	100	125	145	170	195	220	245
	Throw	6	8	10	12	14	16	18	20
14x6	cfm	110	145	180	215	252	290	325	360
	Throw	7	9.5	12	14	16.5	19	21.5	24
12x8	cfm	130	170	215	255	300	340	385	425
	Throw	7.5	10	12.5	15	18	20.5	23	25.5

Terminal Velocity of 75 fpm