

Table 1 - Supply Air

CFM/Ft of total Linear length	Listed Width in Inches	Min. P _s in H ₂ O		Face Velocity (V _f) FPM		Throw (T) in Feet		Minimum Ceiling Height in Feet				NC
		Bar Style		Bar Style		Sidewall	Sill/Floor					
		00 and 15	30 and 01	00 and 15	30 and 01	Min.-Max.	Min.-Max.	@ -18F	T	@ -25F	T	
20	1½	.01	.01	500	575	6-9	1-2	8		9		<20
30	1½	.03	.04	750	865	7-10	2-3	9		10		25
	2	.01	.01	475	545	6-9	1-2					20
40	1½	.05	.07	1000	1150	9-13	3-5	9		11		30
	2	.02	.03	635	730	8-11	2-4					25
	2½	.01	.01	460	530	7-10	2-3					20
50	1½	.03	.12	1250	1440	11-16	4-9	9½		11		30
	2	.03	.04	790	910	10-14	3-7					25
	2½	.02	.03	575	660	9-13	2-6					20
	3	<.01	.01	440	505	8-12	2-5					<20
60	2	.05	.07	950	1090	12-18	5-11	9½		12		30
	2½	.02	.03	690	795	11-16	4-9					25
	3	.01	.01	530	610	10-14	3-7					20
	4	<.01	.01	370	425	8-12	2-5					<20
70	2	.06	.08	1110	1275	14-20	7-13	10		12		30
	2½	.03	.04	810	935	13-19	6-12					30
	3	.02	.03	660	760	11-16	4-9					25
	4	<.01	.01	435	500	10-14	3-7					<20
80	2	.08	.10	1275	1450	16-23	9-16	10½		12½		30
	2½	.04	.05	920	1060	15-21	8-14					30
	3	.03	.04	700	805	13-18	6-11					25
	4	.01	.01	495	570	11-16	4-9					20
90	2½	.05	.07	1030	1185	17-24	10-17	11		13		30
	3	.04	.05	785	905	15-21	8-14					30
	4	.01	.02	550	635	13-18	6-11					25
	5	<.01	.01	450	520	11-16	4-9					20
100	2½	.06	.08	1150	1325	19-27	12-20	11		13		30
	3	.04	.05	875	1010	16-23	9-16					30
	4	.02	.03	620	715	14-20	7-13					25
	5	.01	.01	500	575	12-18	5-11					20
120	3	.06	.08	1050	1210	19-28	11-20	11½		13		30
	4	.03	.04	745	855	17-24	9-16					30
	5	.02	.03	600	680	15-22	7-14					25
	6	<.01	.01	480	550	13-19	5-11					20
140	3	.08	.11	1220	1410	22-32	14-24	11½		14		35
	4	.04	.05	870	1000	19-28	11-20					30
	5	.02	.03	700	810	17-25	9-17					25
	6	.01	.01	560	645	15-22	7-14					20
160	4	.05	.07	990	1140	22-32	13-23	12		15		35
	5	.03	.04	800	925	19-29	10-20					30
	6	.02	.03	640	735	18-26	9-17					25
	8	.01	.01	460	530	15-22	6-13					20
180	4	.07	.09	1110	1275	25-36	16-27	12		15		35
	5	.04	.05	900	1035	22-33	13-24					30
	6	.03	.04	725	835	20-30	11-21					25
	8	.02	.03	520	600	17-25	8-16					20
200	4	.08	.11	1240	1425	28-41	-	12		15		40
	5	.05	.07	1000	1150	24-36	-					35
	6	.04	.05	800	925	23-33	-					30
	8	.02	.03	575	665	20-28	-					25
250	5	.08	.11	1250	1440	30-46	-	13		15		40
	6	.05	.07	1000	1150	27-39	-					35
	8	.03	.04	720	830	25-35	-					30
	10	.01	.01	550	625	21-32	-					25
300	6	.07	.09	1200	1375	33-48	-	13		15		40
	8	.04	.05	865	1000	29-42	-					35
	10	.02	.03	665	765	25-39	-					30
	12	.01	.01	545	630	23-33	-					25
350	8	.05	.08	1020	1175	34-48	-	13		15		40
	10	.03	.04	780	900	29-45	-					35
	12	.02	.03	640	735	26-38	-					30
400	8	.08	.11	1170	1350	40-55	-	14		16		45
	10	.04	.05	890	1025	33-50	-					40
	12	.03	.04	730	845	33-44	-					35

Table 2 - Continuous Grille Length Factors

Modify Table 1 by listed values for grille lengths above 4 feet.			
Grille Length in Feet	Throw (T)		NC
	Sidewall Min.-Max.	Sill/Floor Min.-Max.	
4-6	No Change		+0
7-20	T x 1.10		+5
21-100	T x 1.15		+10

Table 3 - Supply Air Temperature Factors

Multiply Throw in Table 1 (or factor in Table 2 if used) by listed value.			
Sidewall Sill/Floor	@-20F T	@ 0F T	@+25F T
		T x 1.00	T x 1.10

Table 4 - Vertical Down-Throw and Supply Air Temperature Factors

Multiply Throw-Sidewall in Table 1 (or factor in Table 2 if used) by listed value.			
Case	@-20F T Cooling	@ 0F T Ventilating	@+25F T Heating
Case 1	T x 1.00	T x .90	T x .60
Case 2	T x .70	T x .60	T x .40

Table 5 - Supply Grille Areas (per foot of length)

		Listed Width in Inches																
		1½	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	30	36
A _n		.13	.17	.21	.25	.33	.42	.50	.67	.84	1.00	1.20	1.30	1.50	1.70	2.00	2.50	3.00
		00 and 15 Bar Styles																
A _k		.04	.06	.09	.11	.16	.20	.25	.35	.45	.55	.68	.79	.90	1.00	1.30	1.60	2.10
		30 and 01 Bar Styles																
A _k		.03	.05	.08	.09	.14	.17	.21	.30	.38	.47	.58	.67	.77	.85	1.10	1.40	1.80

Return Air CFM per Foot of Length

Listed Width in Inches	A _k Area	Bar Style	NC 20-25 Nonducted		NC 30 Ducted		NC 35-40 Ducted	
			-.02" P _s CFM	-.03" P _s CFM	-.08" P _s CFM	-.10" P _s CFM	-.15" P _s CFM	-.20" P _s CFM
1½	.13	00 and 15	20	25	40	45	55	65
	.12	01 and 30	15	20	35	40	45	55
2	.18	00 and 15	30	40	65	70	90	100
	.17	01 and 30	25	35	55	60	75	85
2½	.23	00 and 15	45	50	85	95	115	135
	.22	01 and 30	35	45	70	80	100	115
3	.27	00 and 15	55	65	105	120	145	165
	.25	01 and 30	45	55	90	100	120	140
4	.34	00 and 15	75	90	150	165	205	235
	.33	01 and 30	60	75	125	140	170	195
5	.41	00 and 15	95	120	190	215	260	305
	.39	01 and 30	80	100	160	180	220	255
6	.46	00 and 15	120	145	240	265	325	375
	.44	01 and 30	100	120	200	220	270	315
8	.57	00 and 15	160	200	325	360	445	515
	.54	01 and 30	135	165	270	305	370	430
10	.68	00 and 15	210	255	415	465	570	655
	.64	01 and 30	175	215	350	390	475	550
12	.76	00 and 15	255	310	510	565	695	800
	.72	01 and 30	210	260	425	475	580	670
16	.93	00 and 15	350	430	700	785	960	1100
	.86	01 and 30	285	350	570	635	780	900
20	1.10	00 and 15	445	545	885	990	1220	1410
	1.00	01 and 30	365	445	730	815	1000	1160
24	1.25	00 and 15	540	660	1080	1210	1475	1710
	1.15	01 and 30	440	540	880	985	1200	1390