

**ALHR90  
Return Air Registers and Grilles**

Average Face Velocity*		400	500	600	700	800	900	1000
6 x 6	CFM	50	63	76	88	101	113	126
Ak .126	Ps	.011	.018	.025	.036	.044	.056	.069
8 x 8	CFM	103	129	155	181	207	233	259
Ak .259	Ps	.011	.017	.024	.034	.043	.054	.067
12 x 6	CFM	119	148	178	208	237	267	297
Ak .297	Ps	.011	.017	.024	.034	.043	.054	.067
14 x 6	CFM	141	177	212	248	283	318	354
Ak .354	Ps	.011	.017	.024	.033	.042	.053	.066
14 x 8	CFM	195	244	292	341	390	438	487
Ak .487	Ps	.010	.016	.023	.032	.041	.052	.064
12 x 12	CFM	256	320	384	448	512	576	640
Ak .640	Ps	.010	.016	.022	.030	.040	.050	.062
24 x 8	CFM	348	435	523	610	697	784	871
Ak .871	Ps	.009	.015	.021	.028	.038	.045	.055
18 x 12	CFM	395	493	592	691	789	888	987
Ak .987	Ps	.009	.014	.021	.027	.037	.044	.054
30 x 8	CFM	441	552	662	772	882	993	1103
Ak 1.10	Ps	.009	.014	.020	.026	.036	.043	.053
24 x 12	CFM	535	668	802	936	1069	1203	1337
Ak 1.34	Ps	.009	.014	.019	.025	.035	.042	.052
18 x 18	CFM	605	756	907	1059	1210	1361	1512
Ak 1.51	Ps	.008	.013	.018	.023	.033	.040	.050
30 x 12	CFM	676	845	1014	1182	1351	1520	1689
Ak 1.69	Ps	.008	.013	.018	.023	.032	.039	.049
20 x 20	CFM	755	943	1132	1321	1509	1698	1887
Ak 1.89	Ps	.008	.012	.017	.022	.031	.038	.048
36 x 12	CFM	818	1023	1227	1432	1636	1841	2045
Ak 2.05	Ps	.007	.012	.017	.021	.030	.037	.047
24 x 20	CFM	914	1142	1370	1599	1827	2055	2284
Ak 2.28	Ps	.007	.012	.016	.021	.028	.035	.045
30 x 18	CFM	1034	1292	1551	1809	2068	2326	2584
Ak 2.58	Ps	.007	.011	.015	.020	.026	.033	.043
24 x 24	CFM	1106	1383	1659	1936	2213	2489	2766
Ak 2.77	Ps	.007	.011	.016	.021	.025	.035	.042
36 x 18	CFM	1252	1565	1878	2191	2505	2818	3131
Ak 3.13	Ps	.007	.011	.017	.022	.027	.037	.045
30 x 24	CFM	1399	1749	2099	2449	2799	3149	3499
Ak 3.50	Ps	.008	.012	.018	.023	.029	.039	.048
36 x 24	CFM	1697	2122	2546	2971	3395	3819	4244
Ak 4.24	Ps	.008	.014	.020	.026	.033	.044	.054
30 x 30	CFM	1773	2216	2659	3102	3546	3989	4432
Ak 4.43	Ps	.009	.014	.020	.027	.034	.045	.056
36 x 30	CFM	2154	2692	3231	3769	4307	4846	5384
Ak 5.38	Ps	.010	.016	.023	.031	.040	.051	.063
48 x 24	CFM	2308	2885	3462	4039	4616	5193	5771
Ak 5.77	Ps	.010	.017	.024	.032	.042	.053	.066
36 x 36	CFM	2621	3276	3931	4587	5242	5897	6552
Ak 6.55	Ps	.011	.018	.026	.035	.046	.058	.072
48 x 36	CFM	3588	4485	5382	6279	7176	8073	8971
Ak 8.97	Ps	.010	.016	.023	.031	.040	.051	.063
48 x 48	CFM	4946	6183	7419	8656	9893	11129	12366
Ak 12.40	Ps	.010	.016	.023	.031	.041	.052	.064

**ALH45FF and ALHR45  
Return Air Registers and Grilles**

Average Face Velocity*		400	500	600	700	800	900	1000
6 x 6	CFM	60	70	90	100	120	130	150
Ak .145	Ps	.037	.058	.083	.113	.148	.189	.232
8 x 8	CFM	100	120	140	170	190	220	240
Ak .241	Ps	.032	.050	.072	.098	.128	.163	.200
12 x 6	CFM	110	140	170	190	220	250	280
Ak .278	Ps	.031	.048	.069	.094	.122	.155	.191
14 x 6	CFM	130	170	200	230	270	300	330
Ak .334	Ps	.029	.045	.065	.088	.114	.145	.179
14 x 8	CFM	190	230	280	330	370	420	460
Ak .464	Ps	.025	.039	.055	.075	.097	.123	.152
12 x 12	CFM	250	310	370	430	490	550	610
Ak .614	Ps	.021	.032	.046	.062	.079	.100	.125
24 x 8	CFM	340	420	500	590	670	760	840
Ak .839	Ps	.020	.032	.046	.061	.079	.100	.124
18 x 12	CFM	380	480	570	670	760	860	950
Ak .952	Ps	.020	.032	.046	.061	.080	.101	.124
30 x 8	CFM	430	530	640	750	850	960	1100
Ak 1.07	Ps	.020	.032	.046	.061	.080	.101	.124
24 x 12	CFM	520	650	780	900	1000	1200	1300
Ak 1.29	Ps	.020	.032	.046	.062	.081	.102	.124
18 x 18	CFM	580	730	880	1000	1200	1300	1500
Ak 1.46	Ps	.020	.032	.046	.062	.081	.102	.124
30 x 12	CFM	650	820	980	1100	1300	1500	1600
Ak 1.63	Ps	.021	.032	.046	.062	.082	.103	.124
20 x 20	CFM	730	910	1100	1300	1500	1600	1800
Ak 1.82	Ps	.021	.032	.046	.063	.083	.104	.124
36 x 12	CFM	790	990	1200	1400	1600	1800	2000
Ak 1.98	Ps	.021	.032	.046	.063	.084	.105	.125
24 x 20	CFM	880	1100	1300	1500	1800	2000	2200
Ak 2.21	Ps	.021	.032	.047	.064	.085	.107	.126
30 x 18	CFM	1000	1200	1500	1700	2000	2200	2500
Ak 2.50	Ps	.021	.033	.048	.065	.087	.109	.128
24 x 24	CFM	1100	1300	1600	1900	2100	2400	2700
Ak 2.67	Ps	.022	.033	.048	.066	.088	.110	.130
36 x 18	CFM	1200	1500	1800	2100	2400	2700	3000
Ak 3.02	Ps	.023	.035	.051	.069	.092	.116	.137
30 x 24	CFM	1300	1700	2000	2400	2700	3000	3400
Ak 3.37	Ps	.024	.037	.053	.073	.096	.121	.144
36 x 24	CFM	1600	2000	2400	2900	3300	3700	4100
Ak 4.08	Ps	.027	.040	.058	.080	.105	.132	.158
30 x 30	CFM	1700	2100	2600	3000	3400	3800	4300
Ak 4.26	Ps	.027	.041	.060	.081	.107	.135	.162
36 x 30	CFM	2100	2600	3100	3600	4100	4600	5200
Ak 5.15	Ps	.030	.045	.066	.090	.117	.149	.179
48 x 24	CFM	2200	2800	3300	3900	4400	5000	5500
Ak 5.51	Ps	.031	.047	.069	.093	.122	.154	.186
36 x 36	CFM	2500	3100	3700	4400	5000	5600	6200
Ak 6.24	Ps	.034	.051	.074	.100	.130	.165	.200
48 x 36	CFM	3400	4200	5100	5900	6800	7600	8500
Ak 8.48	Ps	.025	.038	.055	.075	.098	.124	.153
48 x 48	CFM	4600	5800	6900	8100	9200	10000	12000
Ak 11.60	Ps	.022	.034	.048	.066	.086	.109	.134

\*Velocity measured 1 inch from face. Multiple readings are taken in face areas not exceeding 6" x 6", but in no case less than 6 readings, to ensure a representative CFM = Ak x Average Measured Velocity.