



**90 Single-Deflection Supply
S90 Stationary-Bar Return Grille**

S90H/S90V S90HFF/S90VFF

Face Velocity		300	400	500	600	700	800	900	1000
6 x 6	CFM	45	60	75	90	105	120	135	150
Ak .150	Ps	.010	.019	.029	.046	.060	.075	.100	.130
8 x 8	CFM	84	112	140	169	197	225	253	281
Ak .280	Ps	.010	.019	.029	.046	.060	.075	.100	.130
10 x 10	CFM	135	180	225	270	315	360	405	450
Ak .450	Ps	.011	.019	.030	.042	.057	.072	.094	.119
12 x 6	CFM	96	127	159	191	223	255	287	318
Ak .320	Ps	.011	.019	.029	.045	.059	.074	.099	.128
14 x 6	CFM	112	150	187	225	262	300	337	375
Ak .370	Ps	.011	.019	.029	.044	.058	.074	.097	.124
14 x 8	CFM	152	203	254	304	355	406	456	507
Ak .510	Ps	.011	.019	.030	.041	.056	.072	.093	.116
12 x 12	CFM	198	264	330	395	461	527	593	659
Ak .660	Ps	.011	.019	.030	.039	.054	.070	.089	.109
24 x 8	CFM	267	355	444	533	622	711	800	888
Ak .890	Ps	.011	.020	.031	.040	.055	.074	.091	.111
18 x 12	CFM	301	401	502	602	703	803	903	1004
Ak 1.000	Ps	.011	.020	.031	.041	.056	.076	.092	.112
30 x 8	CFM	336	448	560	672	784	895	1007	1119
Ak 1.120	Ps	.011	.020	.031	.041	.056	.078	.093	.114
24 x 12	CFM	406	541	676	811	946	1082	1217	1352
Ak 1.350	Ps	.011	.020	.031	.043	.058	.081	.095	.116
18 x 18	CFM	458	611	764	917	1069	1222	1375	1528
Ak 1.530	Ps	.011	.020	.032	.043	.058	.083	.096	.117
30 x 12	CFM	511	682	852	1023	1193	1364	1534	1704
Ak 1.700	Ps	.011	.020	.032	.044	.059	.084	.097	.118
20 x 20	CFM	571	761	951	1141	1331	1522	1712	1902
Ak 1.900	Ps	.011	.020	.032	.044	.059	.086	.098	.119
36 x 12	CFM	618	824	1030	1236	1442	1649	1855	2061
Ak 2.060	Ps	.011	.020	.032	.045	.060	.087	.099	.120
24 x 20	CFM	690	920	1150	1380	1610	1840	2070	2300
Ak 2.300	Ps	.011	.020	.032	.045	.060	.089	.100	.120
30 x 18	CFM	781	1041	1301	1561	1822	2082	2342	2602
Ak 2.600	Ps	.011	.020	.032	.045	.060	.090	.100	.121
24 x 24	CFM	835	1114	1392	1671	1949	2228	2506	2785
Ak 2.780	Ps	.011	.020	.031	.046	.060	.090	.100	.121
36 x 18	CFM	946	1261	1576	1892	2207	2522	2838	3153
Ak 3.150	Ps	.011	.019	.031	.045	.059	.090	.099	.120
30 x 24	CFM	1057	1410	1762	2115	2467	2820	3172	3525
Ak 3.520	Ps	.011	.019	.030	.045	.058	.089	.098	.119
36 x 24	CFM	1284	1712	2140	2568	2996	3424	3852	4280
Ak 4.280	Ps	.011	.018	.028	.043	.055	.085	.092	.114
30 x 30	CFM	1341	1789	2236	2683	3130	3577	4024	4471
Ak 4.470	Ps	.011	.017	.028	.042	.054	.083	.091	.112
36 x 30	CFM	1633	2177	2721	3265	3810	4354	4898	5442
Ak 5.440	Ps	.010	.015	.024	.037	.047	.070	.079	.100
48 x 24	CFM	1751	2335	2919	3503	4086	4670	5254	5838
Ak 5.840	Ps	.009	.014	.022	.035	.043	.064	.073	.095
36 x 36	CFM	1992	2656	3320	3984	4648	5312	5976	6640
Ak 6.640	Ps	.008	.012	.017	.029	.034	.048	.059	.081
48 x 36	CFM	2742	3656	4570	5484	6398	7312	8226	9140
Ak 9.140	Ps	.008	.012	.017	.029	.034	.048	.059	.081
48 x 48	CFM	3808	5077	6346	7615	8884	10154	11423	12692
Ak 12.700	Ps	.008	.012	.017	.029	.034	.048	.059	.081

S90H LAY-IN / ALS90H LAY-IN

Face Velocity*		300	400	500	600
22X22	CFM	684	912	1140	1368
Ak 2.28	Ps	.018	.033	.051	.071

S90HFFI

Face Velocity		300	400	500	600	700
20 x 20 Ak 2.25	CFM	675	900	1125	1350	1575
	Static Pressure (in W.C.)	-0.024	-0.042	-0.065	-0.094	-0.128
	Total Pressure (in W.C.)	-0.018	-0.032	-0.050	-0.072	-0.098

Note: Tested without filters. Typical capacity is 2 CFM per square inch of nominal filter area. Recommended face velocity is 300-450 FPM. Velocities higher will decrease filter performance, increase flow resistance, and possibly be of noise concern. Velocity measured 1" from face.