



MODEL SLS - 3800

LINEAR SLOT DIFFUSERS PERFORMANCE DATA

No. Of Slots	THROW DIRECTION	AREA FACTOR AK (Ft²) per Meter of Length	FACE VELOCITY (FPM)	500	700	900	1100	1300	1500	1700	1900	2100	2300
1	VERTICAL	0.106 FT²	AIRFLOW (CFM/M)	53	74	95	117	138	159	180	201	223	244
			SP (Inch. Wg)	0.015	0.029	0.048	0.072	0.101	0.134	0.172	0.215	0.263	0.315
			NC	<15	<15	<15	<15	18	22	26	29	32	35
			Throw(Ft)@50,100,150Fpm	4,3,2	10,5,2	14,11,7	18,15,11	21,18,14	23,21,17	26,24,19	28,26,21	29,28,23	31,30,25
	ANGULAR	0.112 FT²	AIRFLOW (CFM/M)	56	78	101	123	146	168	190	213	235	258
			SP (Inch. Wg)	0.025	0.049	0.082	0.122	0.170	0.226	0.290	0.362	0.442	0.530
			NC	<15	<15	15	22	28	33	37	41	45	48
			Throw(Ft)@50,100,150Fpm	10,6,3	12,8,4	15,10,5	16,11,6	17,11,7	18,12,8	19,13,9	21,14,10	22,15,10	24,16,11
2	VERTICAL	0.194 FT²	AIRFLOW (CFM/M)	97	136	175	213	252	291	330	369	407	446
			SP (Inch. Wg)	0.018	0.034	0.057	0.085	0.119	0.158	0.203	0.254	0.310	0.372
			NC	<15	<15	<15	16	22	27	31	34	38	41
			Throw(Ft)@50,100,150Fpm	11,2,1	15,6,3	18,11,6	21,14,9	23,17,11	24,19,12	26,21,14	27,23,15	28,24,17	29,26,18
	ANGULAR	0.179 FT²	AIRFLOW (CFM/M)	90	125	161	197	233	269	304	340	376	412
			SP (Inch. Wg)	0.020	0.039	0.065	0.097	0.135	0.180	0.231	0.289	0.353	0.423
			NC	<15	<15	<15	19	25	31	35	39	43	46
			Throw(Ft)@50,100,150Fpm	11,7,3	13,9,5	15,10,6	17,11,7	19,13,9	21,15,10	23,16,11	24,17,11	25,18,12	26,19,13
3	VERTICAL	0.276 FT²	AIRFLOW (CFM/M)	138	193	248	304	359	414	469	524	580	635
			SP (Inch. Wg)	0.020	0.040	0.066	0.099	0.138	0.184	0.236	0.295	0.360	0.432
			NC	<15	<15	<15	19	25	30	35	39	42	45
			Throw(Ft)@50,100,150Fpm	14,2,1	18,7,4	21,12,7	24,15,9	26,18,11	27,20,12	29,22,14	30,24,15	31,25,16	32,27,17
	ANGULAR	0.234 FT²	AIRFLOW (CFM/M)	117	164	211	257	304	351	398	445	491	538
			SP (Inch. Wg)	0.017	0.034	0.056	0.084	0.117	0.156	0.200	0.250	0.305	0.366
			NC	<15	<15	<15	18	24	30	34	38	42	45
			Throw(Ft)@50,100,150Fpm	13,9,4	15,11,6	15,12,7	16,12,8	17,13,9	19,15,10	22,16,11	23,17,12	25,18,13	26,19,14
4	VERTICAL	0.354 FT²	AIRFLOW (CFM/M)	177	248	319	389	460	531	602	673	743	814
			SP (Inch. Wg)	0.023	0.045	0.074	0.111	0.155	0.206	0.265	0.331	0.404	0.485
			NC	<15	<15	15	22	28	33	38	42	45	48
			Throw(Ft)@50,100,150Fpm	14,3,2	20,8,5	24,14,9	28,18,12	31,21,14	33,24,16	35,26,19	36,28,20	38,30,21	39,32,23
	ANGULAR	0.284 FT²	AIRFLOW (CFM/M)	142	199	256	312	369	426	483	540	596	653
			SP (Inch. Wg)	0.017	0.033	0.054	0.081	0.113	0.150	0.193	0.241	0.294	0.353
			NC	<15	<15	<15	19	25	30	35	39	43	46
			Throw(Ft)@50,100,150Fpm	15,10,5	17,12,7	18,13,8	19,14,10	19,14,11	20,15,11	22,16,12	24,17,13	25,18,14	27,20,15
5	VERTICAL	0.429 FT²	AIRFLOW (CFM/M)	215	300	386	472	558	644	729	815	901	987
			SP (Inch. Wg)	0.026	0.050	0.083	0.124	0.173	0.230	0.295	0.368	0.450	0.540
			NC	<15	<15	18	25	30	35	40	43	47	>50
			Throw(Ft)@50,100,150Fpm	14,3,2	20,8,5	24,14,9	28,18,12	31,21,14	33,24,16	35,26,19	36,28,20	38,30,21	39,32,23
	ANGULAR	0.329 FT²	AIRFLOW (CFM/M)	165	230	296	362	428	494	559	625	691	757
			SP (Inch. Wg)	0.018	0.036	0.059	0.088	0.123	0.164	0.211	0.264	0.323	0.387
			NC	<15	<15	<15	21	27	32	37	41	45	48
			Throw(Ft)@50,100,150Fpm	13,10,6	15,12,8	16,13,9	17,14,10	19,15,11	21,16,12	23,18,14	25,19,15	26,20,16	27,21,17



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6	VERTICAL	0.503 FT²	AIRFLOW (CFM/M)	252	352	453	553	654	755	855	956	1056	1157
			SP (Inch. Wg)	0.028	0.055	0.092	0.137	0.191	0.254	0.326	0.407	0.497	0.596
			NC	<15	<15	21	27	32	37	41	44	47	>50
			Throw(Ft)@50,100,150Fpm	6,3,2	20,12,8	30,21,17	38,28,25	45,34,31	51,39,37	56,43,42	60,47,46	65,51,50	68,54,53
	ANGULAR	0.372 FT²	AIRFLOW (CFM/M)	186	260	335	409	484	558	632	707	781	856
			SP (Inch. Wg)	0.022	0.043	0.071	0.106	0.148	0.197	0.253	0.316	0.386	0.463
			NC	<15	<15	18	25	30	35	40	43	47	>50
			Throw(Ft)@50,100,150Fpm	12,9,5	14,11,8	16,13,9	21,15,10	22,16,12	25,18,14	26,19,15	27,20,16	29,22,18	31,23,19
7	VERTICAL	0.575 FT²	AIRFLOW (CFM/M)	288	403	518	633	748	863	978	1093	1208	1323
			SP (Inch. Wg)	0.031	0.060	0.100	0.149	0.208	0.277	0.356	0.445	0.544	0.653
			NC	<15	17	24	29	34	38	41	44	47	49
			Throw(Ft)@50,100,150Fpm	5,3,2	18,14,10	33,26,23	44,36,35	54,44,44	64,51,54	71,56,61	77,62,67	>80,68,73	>80,71,78
	ANGULAR	0.412 FT²	AIRFLOW (CFM/M)	206	288	371	453	536	618	700	783	865	948
			SP (Inch. Wg)	0.036	0.071	0.117	0.175	0.244	0.325	0.417	0.521	0.636	0.763
			NC	<15	16	24	31	37	41	45	49	>50	>50
			Throw(Ft)@50,100,150Fpm	11,8,4	13,10,7	15,11,8	17,12,9	18,13,10	20,14,11	21,15,12	23,17,13	24,18,14	25,19,15
8	VERTICAL	0.645 FT²	AIRFLOW (CFM/M)	323	452	581	710	839	968	1097	1226	1355	1484
			SP (Inch. Wg)	0.033	0.066	0.108	0.161	0.225	0.300	0.385	0.481	0.588	0.705
			NC	15	22	27	31	35	38	40	43	45	47
			Throw(Ft)@50,100,150Fpm	3,3,2	15,17,11	35,32,30	51,45,48	65,55,61	79,65,75	>80,73,>80	>80,>80,>80	>80,>80,>80	>80,>80,>80
	ANGULAR	0.45 FT²	AIRFLOW (CFM/M)	225	315	405	495	585	675	765	855	945	1035
			SP (Inch. Wg)	0.036	0.071	0.117	0.175	0.244	0.325	0.417	0.521	0.636	0.763
			NC	15	25	33	39	44	48	>50	>50	>50	>50
			Throw(Ft)@50,100,150Fpm	6,5,2	10,7,5	13,9,7	13,10,9	14,13,9	15,13,10	16,15,13	17,15,13	19,17,13	20,17,15

NOTES:

- 1- Performance Data is Based on ASHREA 70-06
- 2- CFM: Standard air density and ISOTHERMAL conditions.
- 3- AIRFLOW: based on CFM per Linear Meter of Grille
- 4- static pressure (SP): Inches of Water Gauge
- 5- Face Velocity: Face discharge velocity in feet per minute (fpm)
- 6- Noise Criteria: NC Level is based on room attenuaion of 10db (sound power level Re: 10-12Watts)
- 7- Throw: Projection distance in FEET from diffuser discharge at which the maximum velocity has been reduced to specifiyed terminal velocity (Vt). Data show are for 50,100,150 Terminal velocity (fpm)
- 8- Vertical Throw: tested as diffuser installed in wall throwing horizontally in the room 
- 9- Angular Throw: tested as diffuser installed in Ceiling throwing in the room 