



MODEL SLS - 3900

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	0.145 FT²	AIRFLOW (CFM/M)	73	102	131	160	189	218	247	276	305	334
			SP (Inch. Wg)	0.019	0.038	0.063	0.094	0.131	0.174	0.223	0.279	0.341	0.409
			NC	<15	<15	<15	16	22	27	31	34	38	41
			Throw(Ft)@50,100,150Fpm	9,6,5	15,9,8	20,12,10	24,15,11	27,17,13	29,18,14	32,20,15	34,21,16	35,22,16	37,23,17
	ANGULAR	0.105 FT²	AIRFLOW (CFM/M)	53	74	95	116	137	158	179	200	221	242
			SP (Inch. Wg)	0.002	0.004	0.006	0.009	0.013	0.017	0.022	0.027	0.033	0.040
			NC	<15	<15	<15	<15	20	26	31	36	41	45
			Throw(Ft)@50,100,150Fpm	10,6,3	13,8,4	14,9,5	15,10,6	16,10,7	17,11,8	18,12,9	19,13,10	21,14,11	22,15,12
2	VERTICAL	0.261 FT²	AIRFLOW (CFM/M)	131	183	235	287	339	392	444	496	548	600
			SP (Inch. Wg)	0.020	0.038	0.064	0.096	0.134	0.178	0.229	0.286	0.349	0.419
			NC	<15	<15	<15	19	24	29	33	37	40	44
			Throw(Ft)@50,100,150Fpm	28,14,8	37,20,11	44,25,14	50,29,16	54,32,18	58,34,20	61,37,21	65,39,22	67,40,23	70,42,24
	ANGULAR	0.179 FT²	AIRFLOW (CFM/M)	90	125	161	197	233	269	304	340	376	412
			SP (Inch. Wg)	0.008	0.016	0.027	0.040	0.056	0.075	0.096	0.120	0.147	0.176
			NC	<15	<15	<15	<15	20	25	30	34	38	41
			Throw(Ft)@50,100,150Fpm	14,10,6	15,11,7	16,11,8	17,12,9	19,13,10	20,13,10	21,14,11	23,16,12	26,18,14	26,18,15
3	VERTICAL	0.368 FT²	AIRFLOW (CFM/M)	184	258	331	405	478	552	626	699	773	846
			SP (Inch. Wg)	0.021	0.041	0.069	0.103	0.144	0.192	0.247	0.309	0.377	0.452
			NC	<15	<15	15	22	27	32	37	40	44	47
			Throw(Ft)@50,100,150Fpm	39,20,10	50,28,14	58,34,17	65,38,20	70,42,22	75,45,24	79,48,25	>80,51,26	>80,53,28	>80,55,29
	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	13,9,7	15,11,8	17,12,9	19,14,10	20,15,11	21,15,12	22,17,13	24,18,14	26,18,15	27,19,16
4	VERTICAL	0.469 FT²	AIRFLOW (CFM/M)	235	328	422	516	610	704	797	891	985	1079
			SP (Inch. Wg)	0.024	0.047	0.078	0.117	0.163	0.217	0.279	0.349	0.426	0.511
			NC	<15	<15	19	25	31	36	40	44	47	>50
			Throw(Ft)@50,100,150Fpm	43,23,11	55,32,16	63,38,19	70,43,23	75,47,25	>80,51,27	>80,54,28	>80,57,29	>80,60,32	>80,62,33
	ANGULAR	0.306 FT²	AIRFLOW (CFM/M)	153	214	275	337	398	459	520	581	643	704
			SP (Inch. Wg)	0.016	0.031	0.052	0.078	0.109	0.145	0.186	0.232	0.283	0.339
			NC	<15	<15	<15	17	22	27	31	34	37	40
			Throw(Ft)@50,100,150Fpm	11,8,5	13,10,6	14,10,6	15,11,7	15,12,8	16,13,9	16,13,9	17,14,10	18,15,11	18,15,11
5	VERTICAL	0.567 FT²	AIRFLOW (CFM/M)	284	397	510	624	737	851	964	1077	1191	1304
			SP (Inch. Wg)	0.028	0.055	0.091	0.136	0.190	0.253	0.325	0.406	0.496	0.595
			NC	<15	15	23	30	35	40	44	48	>50	>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	0.364 FT²	AIRFLOW (CFM/M)	182	255	328	400	473	546	619	692	764	837
			SP (Inch. Wg)	0.017	0.034	0.057	0.085	0.119	0.158	0.203	0.254	0.310	0.372
			NC	<15	<15	<15	19	24	29	33	37	40	43
			Throw(Ft)@50,100,150Fpm	10,6,5	12,8,6	13,9,7	14,10,7	15,11,8	16,11,8	17,12,8	17,12,8	18,12,8	18,12,8

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6	VERTICAL	0.662 FT ²	AIRFLOW (CFM/M)	331	463	596	728	861	993	1125	1258	1390	1523
			SP (Inch. Wg)	0.034	0.066	0.109	0.163	0.228	0.304	0.390	0.487	0.595	0.714
			NC	<15	20	28	35	40	45	49	>50	>50	>50
			Throw(Ft)@50,100,150Fpm	31,19,11	39,27,16	45,34,20	50,39,24	54,43,26	57,47,29	60,50,31	63,52,33	65,55,34	67,57,36
	ANGULAR	0.419 FT ²	AIRFLOW (CFM/M)	210	293	377	461	545	629	712	796	880	964
			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	22	28	33	37	41	44	48
			Throw(Ft)@50,100,150Fpm	9,5,4	11,6,5	12,7,6	13,8,7	14,8,7	15,9,7	15,9,7	16,10,7	16,10,8	17,11,8
7	VERTICAL	0.754 FT ²	AIRFLOW (CFM/M)	377	528	679	829	980	1131	1282	1433	1583	1734
			SP (Inch. Wg)	0.041	0.080	0.132	0.197	0.275	0.366	0.470	0.587	0.717	0.860
			NC	17	27	34	41	46	50	>50	>50	>50	>50
			Throw(Ft)@50,100,150Fpm	14,13,10	19,18,15	25,22,19	30,25,23	34,27,25	37,28,28	40,30,31	41,31,33	44,33,32	45,35,33
	ANGULAR	0.472 FT ²	AIRFLOW (CFM/M)	236	330	425	519	614	708	802	897	991	1086
			SP (Inch. Wg)	0.015	0.030	0.050	0.075	0.105	0.140	0.180	0.225	0.275	0.330
			NC	<15	<15	17	25	32	37	42	47	>50	>50
			Throw(Ft)@50,100,150Fpm	8,4,3	9,5,4	10,6,5	11,6,5	12,7,5	13,8,6	13,8,6	14,9,6	14,9,7	15,10,7
8	VERTICAL	0.844 FT ²	AIRFLOW (CFM/M)	422	591	760	928	1097	1266	1435	1604	1772	1941
			SP (Inch. Wg)	0.049	0.096	0.158	0.236	0.330	0.439	0.564	0.705	0.861	1.033
			NC	25	34	41	47	>50	>50	>50	>50	>50	>50
			Throw(Ft)@50,100,150Fpm	7,4,2	13,7,3	17,12,3	20,17,4	22,19,5	26,23,6	29,25,7	32,25,8	33,27,9	33,28,10
	ANGULAR	0.523 FT ²	AIRFLOW (CFM/M)	262	366	471	575	680	785	889	994	1098	1203
			SP (Inch. Wg)	0.012	0.024	0.039	0.058	0.081	0.108	0.139	0.174	0.213	0.256
			NC	<15	<15	20	29	37	43	49	>50	>50	>50
			Throw(Ft)@50,100,150Fpm	4,3,2	5,3,3	6,4,4	7,5,5	8,5,5	8,6,5	8,6,6	8,6,6	9,6,6	9,7,7

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 attenuation 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 specified 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 