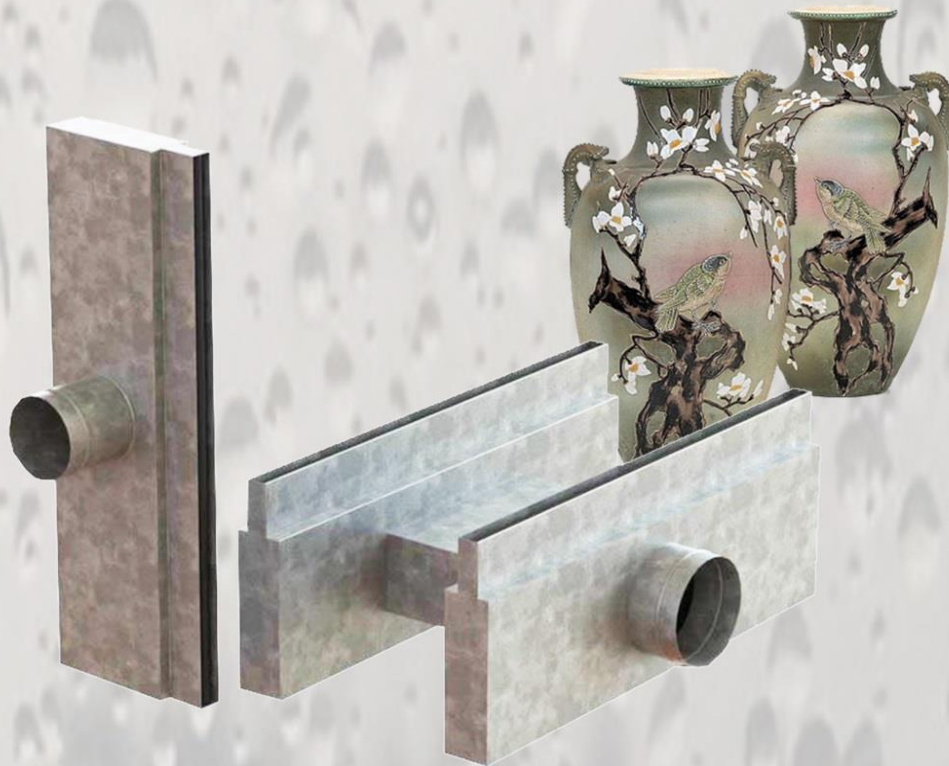




ALSHARQA



LIGHT TROFFER DIFFUSERS

AIR OUTLETS
TECHNICAL CATALOGUE



Air Conditioning and Industries

المصرية الخليجية لأعمال التكييف - الشارقة

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LIGHT TROFFER DIFFUSERS

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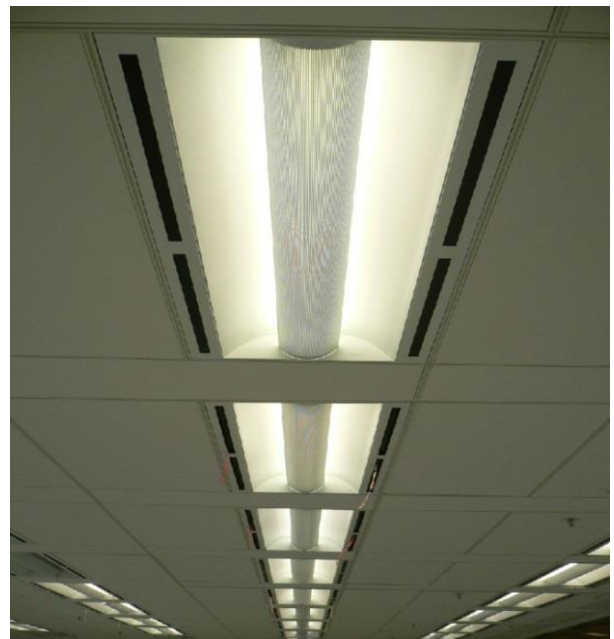
INTRODUCTION

SLT diffusers are designed for supply air diffusion through Inconspicuous slot of air handling fluorescent light troffers . They are easily attachable to existing light troffer. Double side (SLT-D) and single side (SLT-S) diffusers are available in 1.2m Or 0.6m in length for standard light troffers .other sizes are available as options. Diffusers are equipped with air pattern controllers. Each slot can also be fully damper.



MATERIAL

GI or EG sheets as standard.

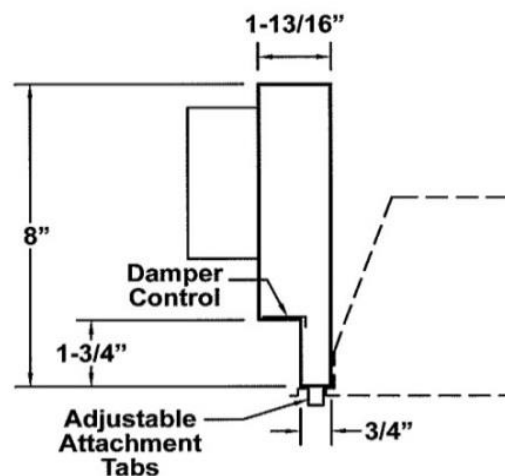
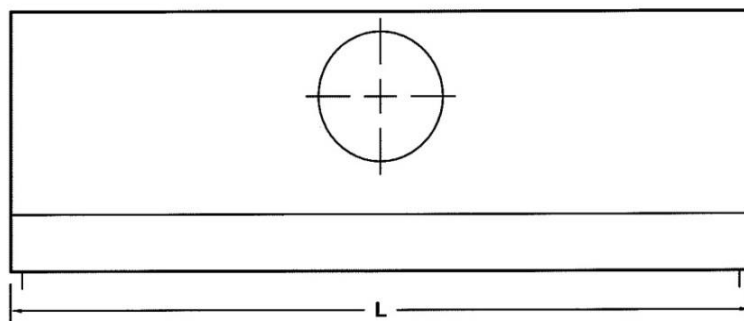


LIGHT TROFFER DIFFUSERS

SINGLE SIDE DIFFUSER

MODEL SS

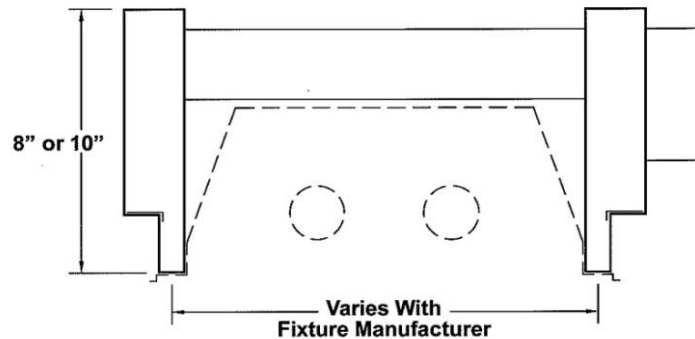
- 1- Adapts to all manufactured air supply or return light troffers of all lengths. Dimensions are automatically factory adjusted for specific manufacturers and models. 6-3/4" height available for low ceiling plenum height applications.
- 2- single side inlets available are 5 or 6 inch round.
- 3- volume control damper operable thru face.
- 4- optional internal insulation of coated fiberglass 1/4 inch thick or external insulation 1/2 inch thick having aluminum foil faced wrap.
- 5- construction: 24 gauge zinc coated steel, mill finish.



MULTI SIDED DIFFUSER

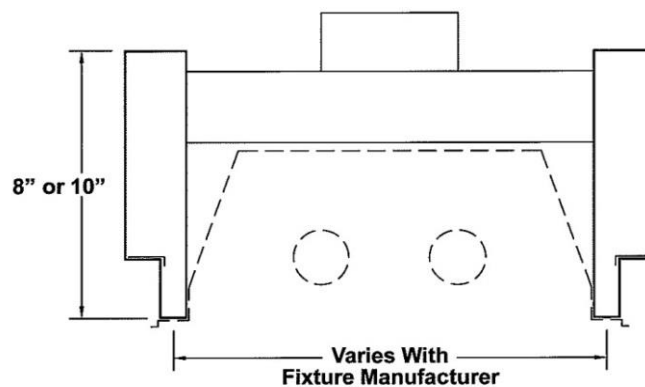
SIDE INLET – MODEL SDS

Adapts to all manufactured air supply troffers of all lengths , widths , and heights. Available with 5 or 6 inch round inlets.



TOP INLET – MODEL SDT

Adapts to all manufactured air supply troffers of all lengths , widths , and heights. Available with 5,6 or 8 inch round inlets.



LIGHT TROFFER DIFFUSERS

PERFORMANCE DATA - SINGLE SIDE

For 4' / 1200 mm Light Fixture

Neck Size	Capacity, cfm	50	60	70	80	90	100	110	120	140
	Throw, ft	1-2-10	2-4-14	2-5-17	3-6-19	4-8-20	4-10-21	5-12-22	6-14-24	8-17-25
5 in. Oval	Total Pressure	.053	.076	.104	.136	.171	.202	.255	.305	.415
	NC	—	—	—	23	27	31	34	37	42
6 in. Oval	Total Pressure	.048	.070	.095	.124	.157	.194	.234	.279	.380
	NC	—	—	—	23	27	31	34	37	42

For 3' / 900 mm Light Fixture

Neck Size	Capacity, cfm	40	50	60	70	80	90	100	110	120
	Throw, ft	3-6-13	4-8-15	6-10-16	8-11-18	9-13-19	10-14-20	11-15-21	12-16-22	13-17-23
5 in. Oval	Total Pressure	.063	.102	.142	.192	.252	.317	.394	.476	.564
	NC	—	22	27	31	35	39	42	45	48
6 in. Oval	Total Pressure	.061	.094	.136	.183	.240	.303	.376	.455	.538
	NC	—	22	27	31	35	39	42	45	48

For 2' / 600 mm Light Fixture

Neck Size	Capacity, cfm	30	40	50	60	70	80	90
	Throw, ft	2-5-11	4-7-13	6-9-15	7-11-17	8-13-18	10-13-19	11-14-20
5 in. Oval	Total Pressure	.056	.099	.157	.225	.307	.401	.507
	NC	—	24	30	36	40	45	48
6 in. Oval	Total Pressure	.055	.097	.152	.219	.298	.389	.493
	NC	—	24	30	36	40	45	48

Table of Velocity Pressures, in. w.g.

cfm	20	30	40	50	60	70	80	90	100	110	120	140	160	180	200	220
5 in.	.001	.003	.005	.009	.012	.017	.022	.027	.034	.041	.049	.066	.087	.110	.135	.163
6 in.	—	—	—	.004	.006	.008	.010	.013	.016	.020	.023	.031	.041	.052	.063	.078
8 in.	—	—	—	.001	.002	.002	.003	.004	.005	.006	.007	.010	.013	.017	.021	.025

LIGHT TROFFER DIFFUSERS

ALSHARQA AIR OUTLETS

PERFORMANCE DATA - DAUL SIDE

For 4' / 1200 mm Light Fixture

Neck Size	Capacity, cfm	60	80	100	120	140	160	180	200	220
	Throw, ft	0-1-3	1-1-5	1-2-8	1-3-10	2-4-12	2-5-13	3-6-14	4-8-15	4-9-16
5 in. [127]	Total Pressure	.053	.098	.151	.217	.292	.385	.487	.598	.722
Round	NC	—	—	20	26	30	34	37	41	44
6 in. [152]	Total Pressure	.034	.057	.090	.130	.175	.232	.294	.356	.441
Round	NC	—	—	—	24	29	32	36	39	42
8 in. [203]	Total Pressure	.024	.043	.068	.097	.133	.173	.219	.271	.327
Round	NC	—	—	—	20	25	29	32	35	38
LP-5 in. [127]	Total Pressure	.035	.065	.100	.144	.193	.255	.322	.396	.478
Oval	NC	—	—	22	27	32	36	39	42	45
LP-6 in. [152]	Total Pressure	.025	.042	.067	.097	.131	.173	.219	.265	.328
Oval	NC	—	—	—	23	28	32	35	38	41

For 3' / 900 mm Light Fixture

Neck Size	Capacity, cfm	50	60	70	80	100	120	140	160	180
	Throw, ft	1-2-7	1-3-8	2-4-10	2-5-11	4-7-12	6-9-14	6-10-14	7-11-51	8-12-16
5 in. [127]	Total Pressure	.036	.051	.071	.092	.144	.204	.281	.367	.460
Round	NC	—	—	—	22	28	33	37	40	43
6 in. [152]	Total Pressure	.031	.045	.062	.080	.126	.178	.246	.321	.402
Round	NC	—	—	—	22	28	33	37	40	43
LP-5 in. [127]	Total Pressure	.036	.051	.071	.092	.144	.204	.281	.367	.460
Oval	NC	—	—	—	22	28	33	37	40	43
LP - 6 in. [152]	Total Pressure	.031	.045	.062	.080	.126	.178	.246	.321	.402
Oval	NC	—	—	—	22	28	33	37	40	43

For 2' / 600 mm Light Fixture

Neck Size	Capacity, cfm	40	50	60	70	80	90	100	110	120
	Throw, ft	1-3-7	2-4-8	3-5-9	3-6-10	4-7-11	5-7-11	5-8-12	6-9-12	7-9-13
5 in. [127]	Total Pressure	.040	.062	.090	.124	.163	.200	.252	.304	.363
Round	NC	—	—	—	23	27	31	34	37	40
6 in. [152]	Total Pressure	.039	.061	.088	.118	.151	.197	.242	.302	.348
Round	NC	—	—	—	23	27	31	34	37	40
LP-5 in. [127]	Total Pressure	.031	.050	.072	.100	.129	.164	.199	.240	.287
Oval	NC	—	—	—	21	25	29	32	35	38
LP-6 in. [152]	Total Pressure	.029	.044	.064	.089	.114	.144	.178	.222	.256
Oval	NC	—	—	—	21	25	29	32	35	38

Table of Velocity Pressures, in. w.g.

cfm	20	30	40	50	60	70	80	90	100	110	120	140	160	180	200	220
5 in.	.001	.003	.005	.009	.012	.017	.022	.027	.034	.041	.049	.066	.087	.110	.135	.163
6 in.	—	—	—	.004	.006	.008	.010	.013	.016	.020	.023	.031	.041	.052	.063	.078
8 in.	—	—	—	.001	.002	.002	.003	.004	.005	.006	.007	.010	.013	.017	.021	.025



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