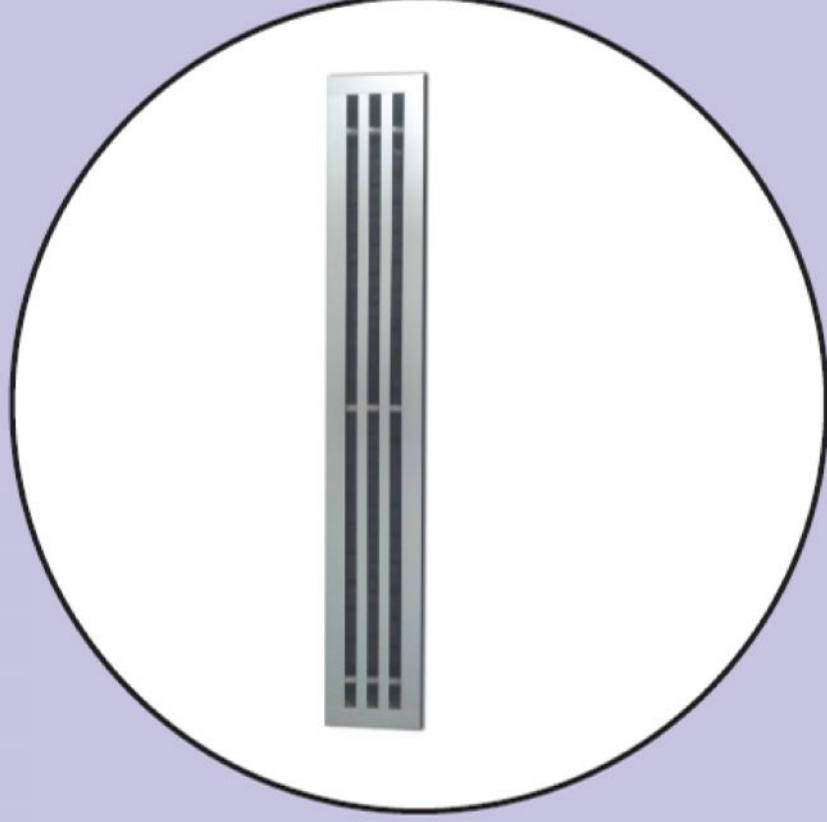


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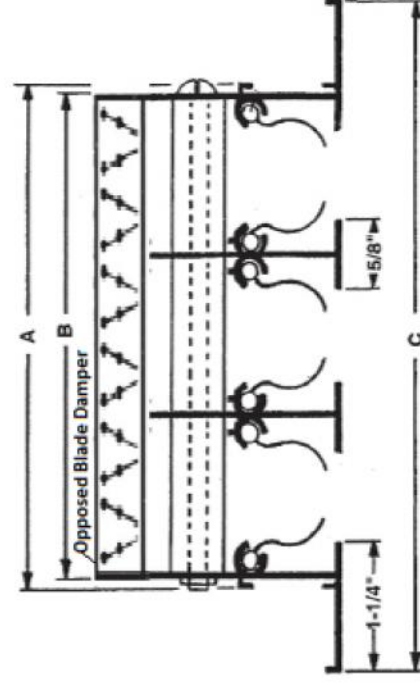
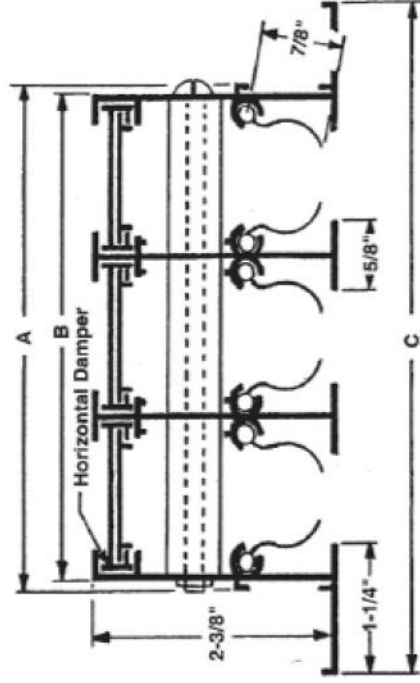
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شركة الخليج لفتحات التكييف المركزي

GULF GRILLES CO.



LINEAR FLOW
BAR DIFFUSER



PRODUCT DESCRIPTION

- The linear flow bar diffuser with deflection blades and control damper is constructed of extruded aluminium alloy and are polyester powder coated finish.
- The fully adjustable deflection blades allow for the air pattern to be controlled along the ceiling, straight down or at some intermediate setting.
- The deflecting blades are designed so that when in the closed position, the air pressure tends to form a tight seal.
- The slots are available in 3/4", 1", 1.5", 2", 2.5", 3" or as required.
- The air flow rate can be varied without changing the air pattern by the use of the volume control damper attached to the rear side of the diffuser.

Note:- Linear flow bar diffuser is available also :-

LFB-A :- with deflection blades (without damper)

LFB-D :- with damper (without deflection blades)

- Diffuser is provided with Hit & Miss damper for 3/4 and 1" slot openings. Other sizes are provided with opposed blade damper. Both types are manually adjustable from the face.
- Damper works also as equalizing grid.
- Maximum length supplied is 10 feet / 1 piece.
- Frameless design is available on request (optional)
- Standard finish is white color for flow bar diffuser and deflection blades. Damper in black color. Painted under electrostatic polyester powder coated system. Other colors available on request. The polyester powder of highest quality are used to enhance the appearance of the units.

LINEAR FLOW BAR DIFFUSER

PERFORMANCE DATA

**Model:- LFB-AD
3/4" Slot Width**

No. of Slots	CFM/FT.	10	20	30	40	50	60	70	80	90	100	125	150	200	250	300	350	400
1	HOR. SP	.022	.089	.200	.356	.557	.802	1.092	1.426	1.804	2.228							
	THROW	7-10	13-15	15-19	18-21	20-24	22-26	23-28	25-30	27-32	28-33							
	NC	<20	<20	30	39	41	47	>50	>50	>50	>50							
	VERT. SP	.010	.039	.088	.157	.245	.353	.480	.627	.794	.980							
	THROW	2-5	9-15	16-23	22-27	25-30	27-32	29-35	31-37	33-39	35-42							
2	NC	<20	<20	<20	20	27	33	38	42	46	49							
	HOR. SP		.022	.050	.089	.139	.200	.273	.356	.451	.557	.870						
	THROW		9-13	14-19	18-21	20-24	22-26	23-28	25-30	27-32	28-33	31-37						
	NC		<20	<20	<20	28	33	38	42	46	>50	>50						
	VERT. SP		.010	.022	.039	.061	.088	.120	.157	.199	.245	.383						
2	THROW		3-6	7-13	12-21	19-26	23-31	27-35	30-37	33-39	35-42	39-46						
	NC		<20	<20	<20	<20	<20	<20	23	27	30	37						

**Model:- LFB-AD
1" Slot Width**

No. of Slots	CFM/FT.	10	20	30	40	50	60	70	80	90	100	125	150	200	250	300	350	400
1	HOR. SP	.010	.040	.090	.160	.250	.360	.490	.640	.810	1.000							
	THROW	4-8	10-15	15-19	18-21	20-24	22-26	23-28	25-30	27-32	28-33							
	NC	<20	<20	25	34	41	47	>50	>50	>50	>50							
	VERT. SP	.007	.029	.066	.117	.183	.263	.358	.468	.592	.731							
	THROW	2-4	8-15	16-22	21-27	25-29	27-32	29-35	31-37	33-39	35-42							
2	NC	<20	<20	<20	<20	21	27	32	36	40	43							
	HOR. SP		.010	.023	.040	.063	.090	.122	.160	.203	.250	.391						
	THROW		6-11	11-15	14-20	18-24	22-26	23-28	25-30	27-32	28-33	31-37						
	NC		<20	<20	<20	22	28	33	37	41	44	50						
	VERT. SP		.007	.016	.029	.046	.066	.089	.117	.148	.183	.285						
2	THROW		3-6	6-12	11-21	17-25	22-30	26-35	29-37	33-39	35-42	39-46						
	NC		<20	<20	<20	<20	<20	<20	<20	21	24	31						

LINEAR FLOW BAR DIFFUSER

PERFORMANCE DATA

**Model:- LFB-AD
1.5" Slot Width**

No. of Slots	CFM/FT.	10	20	30	40	50	60	70	80	90	100	125	150	200	250	300	350	400
1	HOR. SP		.022	.050	.089	.139	.200	.273	.356	.451	.557	.870						
	THROW		9-13	14-19	18-21	20-24	22-26	23-28	25-30	27-32	28-33	31-37						
	NC		<20	<20	<20	28	33	38	42	46	>50	>50						
	VERT. SP		.010	.022	.039	.061	.088	.120	.157	.199	.245	.383						
	THROW		3-6	7-13	12-21	19-26	23-31	27-35	30-37	33-39	35-42	39-46						
2	NC		<20	<20	<20	<20	<20	<20	23	27	30	37						
	HOR. SP		.010	.018	.028	.040	.054	.071	.090	.111	.174	.250						
	THROW		7-13	12-17	15-21	18-24	21-28	23-30	26-32	28-33	31-37	34-41						
	NC		<20	<20	<20	<20	22	26	30	33	40	46						
	VERT. SP		.007	.013	.020	.029	.040	.052	.066	.081	.127	.183						
2	THROW		3-7	6-12	9-18	13-24	18-29	24-33	27-37	30-41	37-46	43-51						
	NC		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	26					

**Model:- LFB-AD
2" Slot Width**

No. of Slots	CFM/FT.	10	20	30	40	50	60	70	80	90	100	125	150	200	250	300	350	400
1	HOR. SP		.010	.023	.040	.063	.090	.122	.160	.203	.250	.391						
	THROW		6-11	11-15	14-20	18-24	22-26	23-28	25-30	27-32	28-33	31-37						
	NC		<20	<20	<20	22	28	33	37	41	44	50						
	VERT. SP		.007	.016	.029	.046	.066	.089	.117	.148	.183	.285						
	THROW		3-6	6-12	11-21	17-25	22-30	26-35	29-37	33-39	35-42	39-46						
2	NC		<20	<20	<20	<20	<20	<20	<20	21	24	31						
	HOR. SP		.010	.016	.023	.031	.040	.051	.063	.096	.141	.250						
	THROW		8-15	13-18	15-21	18-25	20-28	23-32	25-33	32-37	34-41	40-47						
	NC		<20	<20	<20	<20	<20	<20	<20	22	25	32	38	47				
	VERT. SP		.007	.011	.016	.022	.029	.037	.046	.071	.103	.183						
2	THROW		4-8	6-12	9-17	12-22	16-29	20-32	24-36	29-51	50-58							
	NC		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	27					

LINEAR FLOW BAR DIFFUSER

PERFORMANCE DATA

**Model:- LFB-AD
2.5" Slot Width**

No. of Slots	CFM/FT.	10	20	30	40	50	60	70	80	90	100	125	150	200	250	300	350	400
1	HOR. SP		.022	.040	.062	.089	.121	.158	.200	.248	.387	.557						
	THROW		11-16	15-21	19-24	23-28	25-30	27-32	28-33	31-37	34-41							
	NC		<20	<20	<20	22	27	31	35	38	46	50						
	VERT. SP		.010	.017	.027	.039	.053	.070	.088	.109	.170	.245						
	THROW		4-8	7-13	10-20	15-26	20-30	25-34	28-38	31-42	39-46	43-51						
	NC		<20	<20	<20	<20	<20	<20	<20	<20	<20	26	32					
2	HOR. SP			.010	.014	.020	.026	.032	.040	.063	.090	.160	.250					
	THROW			9-16	13-19	16-22	18-25	20-28	23-31	28-37	34-41	40-47	44-51					
	NC		<20	<20	<20	<20	<20	<20	<20	<20	26	32	41	48				
	VERT. SP		.007	.011	.014	.019	.024	.029	.046	.066	.117	.183						
	THROW		4-9	6-12	9-16	11-21	14-26	17-32	27-40	35-47	46-58	56-65						
	NC		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	21	28			

**Model:- LFB-AD
3" Slot Width**

No. of Slots	CFM/FT.	10	20	30	40	50	60	70	80	90	100	125	150	200	250	300	350	400
1	HOR. SP		.010	.018	.028	.040	.054	.071	.090	.111	.174	.250						
	THROW		7-13	12-17	15-21	18-24	21-28	23-30	26-32	28-33	31-37	34-41						
	NC		<20	<20	<20	<20	22	26	30	33	40	46						
	VERT. SP		.007	.013	.020	.029	.040	.052	.066	.081	.127	.183						
	THROW		3-7	6-12	9-18	13-24	18-29	24-33	27-37	30-41	37-46	43-51						
	NC		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	26				
2	HOR. SP			.010	.014	.018	.023	.028	.043	.063	.111	.174	.250					
	THROW			10-18	14-20	17-23	19-26	21-29	29-36	31-41	40-47	44-52	48-57					
	NC		<20	<20	<20	<20	<20	<20	<20	<20	21	27	36	43	49			
	VERT. SP		.007	.010	.013	.016	.020	.032	.046	.081	.127	.183						
	THROW		5-9	6-13	8-16	11-20	13-25	21-36	20-43	42-58	59-65	61-71						
	NC		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	23	29		