



MODEL LFB- X - LT

LONG THROW FLOW BAR DIFFUSERS

PERFORMANCE DATA

Size	No. Of Slots	Area Factor AK (Ft²) per M of Length	FACE VELOCITY (FPM)	500	650	800	950	1100	1250	1400	1550	1700	1850
1"	1 Slot	AK= 0.074Ft²	AIRFLOW (CFM/M)	37	48	59	70	81	93	104	115	126	137
			SP (Inch. Wg)	0.012	0.019	0.027	0.037	0.049	0.061	0.075	0.090	0.106	0.124
			NC	<15	<15	<15	<15	18	22	25	28	30	33
			Throw(Ft)@50,100,150Fpm	12,6,4	13,7,5	14,8,5	16,9,6	19,11,7	22,14,9	27,18,12	32,22,16	39,27,20	46,33,26
	2 Slots	AK= 0.178Ft²	AIRFLOW (CFM/M)	89	116	142	169	196	223	249	276	303	329
			SP (Inch. Wg)	0.017	0.028	0.042	0.059	0.079	0.101	0.126	0.153	0.183	0.216
			NC	<15	17	22	26	30	33	36	38	40	43
			Throw(Ft)@50,100,150Fpm	17,7,3	23,11,5	30,16,8	38,21,12	47,27,16	56,35,21	>60,43,26	>60,51,32	>60,>60,38	>60,>60,46
1.5"	1 Slot	AK= 0.114Ft²	AIRFLOW (CFM/M)	57	74	91	108	125	143	160	177	194	211
			SP (Inch. Wg)	0.013	0.022	0.033	0.047	0.062	0.080	0.100	0.123	0.148	0.175
			NC	<15	<15	<15	<15	18	23	27	31	34	37
			Throw(Ft)@50,100,150Fpm	16,8,4	20,10,5	23,12,6	28,16,9	33,20,12	38,25,16	45,30,22	52,37,28	59,44,35	>60,51,43
	2 Slots	AK= 0.241Ft²	AIRFLOW (CFM/M)	121	157	193	229	265	301	337	374	410	446
			SP (Inch. Wg)	0.014	0.024	0.037	0.053	0.072	0.094	0.119	0.146	0.177	0.211
			NC	<15	<15	<15	19	24	28	32	35	38	41
			Throw(Ft)@50,100,150Fpm	17,9,3	21,13,6	27,17,9	33,21,13	40,26,16	48,32,21	56,37,25	>60,43,30	>60,50,36	>60,57,41
2"	1 Slot	AK= 0.167Ft²	AIRFLOW (CFM/M)	84	109	134	159	184	209	234	259	284	309
			SP (Inch. Wg)	0.017	0.028	0.041	0.057	0.076	0.096	0.119	0.145	0.172	0.202
			NC	<15	<15	<15	<15	18	23	28	32	36	39
			Throw(Ft)@50,100,150Fpm	18,7,2	23,10,4	28,14,7	34,19,10	41,25,15	49,31,21	57,38,28	>60,46,36	>60,55,45	>60,>60,55
	2 Slots	AK= 0.296Ft²	AIRFLOW (CFM/M)	148	192	237	281	326	370	414	459	503	548
			SP (Inch. Wg)	0.015	0.025	0.038	0.053	0.074	0.096	0.121	0.148	0.178	0.211
			NC	<15	<15	<15	15	21	26	30	34	38	41
			Throw(Ft)@50,100,150Fpm	16,9,4	20,13,6	25,17,9	30,21,13	35,25,16	41,29,20	48,33,24	55,38,28	>60,42,33	>60,47,37
2.5"	1 Slot	AK= 0.199Ft²	AIRFLOW (CFM/M)	100	129	159	189	219	249	279	308	338	368
			SP (Inch. Wg)	0.017	0.028	0.043	0.060	0.081	0.102	0.128	0.157	0.189	0.224
			NC	<15	<15	<15	<15	18	23	28	31	35	38
			Throw(Ft)@50,100,150Fpm	17,6,2	21,10,3	27,14,6	33,19,10	41,24,15	49,31,21	58,38,28	>60,46,37	>60,55,46	>60,>60,57
	2 Slots	AK= 0.372Ft²	AIRFLOW (CFM/M)	186	242	298	353	409	465	521	577	632	688
			SP (Inch. Wg)	0.017	0.028	0.043	0.060	0.081	0.105	0.132	0.162	0.195	0.231
			NC	<15	<15	<15	17	22	27	31	35	39	42
			Throw(Ft)@50,100,150Fpm	15,9,4	18,12,6	21,15,9	25,18,11	30,21,14	34,25,17	39,28,21	45,31,24	50,34,27	56,38,31
3"	1 Slot	AK= 0.233Ft²	AIRFLOW (CFM/M)	117	151	186	221	256	291	326	361	396	431
			SP (Inch. Wg)	0.018	0.030	0.045	0.063	0.084	0.108	0.135	0.165	0.198	0.234
			NC	<15	<15	<15	<15	18	23	26	30	33	36
			Throw(Ft)@50,100,150Fpm	14,5,<2	17,8,2	22,11,5	28,16,8	35,21,13	45,27,19	55,34,26	>60,42,34	>60,51,43	>60,>60,54
	2 Slots	AK= 0.447Ft²	AIRFLOW (CFM/M)	224	291	358	425	492	559	626	693	760	827
			SP (Inch. Wg)	0.020	0.034	0.052	0.074	0.099	0.124	0.156	0.191	0.230	0.272
			NC	<15	<15	19	24	28	32	36	39	42	44
			Throw(Ft)@50,100,150Fpm	13,7,3	16,9,5	18,11,6	22,14,8	26,17,11	30,20,13	34,23,16	39,27,18	45,30,21	50,34,24



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PERFORMANCE DATA

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- Throw Data are for diffuser installed in Ceiling throwing Angular in the room 