



MODEL LFB -X-HT

HIGH THROW FLOW BAR DIFFUSERS

PERFORMANCE DATA

Size	No. Of Slots	AREA FACTOR AK (Ft ²) per M of Length	FACE VELOCITY (FPM)	200	350	500	650	800	950	1100	1250	1400	1550
1"	1 Slot	0.24 FT ²	AIRFLOW (CFM/M)	48	84	120	156	192	228	264	300	336	372
			SP (Inch. Wg)	0.006	0.018	0.036	0.061	0.092	0.130	0.174	0.225	0.282	0.346
			NC	<15	<15	<15	21	27	32	36	40	43	46
			Throw(Ft)@50,100,150Fpm	12,2,2	21,4,2	26,12,6	30,17,11	34,21,15	36,25,19	39,28,22	41,30,24	43,32,26	44,34,28
	2 Slots	0.37 FT ²	AIRFLOW (CFM/M)	74	130	185	241	296	352	407	463	518	574
			SP (Inch. Wg)	0.006	0.018	0.037	0.063	0.095	0.134	0.180	0.232	0.291	0.357
			NC	<15	<15	<15	21	27	31	35	39	42	45
			Throw(Ft)@50,100,150Fpm	10,2,2	17,8,5	21,14,10	24,19,13	27,22,15	29,25,18	31,28,19	32,30,21	34,32,23	35,34,24
1.5"	1 Slot	0.307 FT ²	AIRFLOW (CFM/M)	61	107	154	200	246	292	338	384	430	476
			SP (Inch. Wg)	0.009	0.026	0.054	0.091	0.138	0.195	0.261	0.337	0.423	0.518
			NC	<15	<15	<15	20	26	31	35	40	43	46
			Throw(Ft)@50,100,150Fpm	3,2,2	14,4,2	21,11,5	26,16,10	30,20,14	34,23,17	37,26,20	39,29,23	41,31,25	43,33,27
	2 Slots	0.617 FT ²	AIRFLOW (CFM/M)	123	216	309	401	494	586	679	771	864	956
			SP (Inch. Wg)	0.020	0.039	0.080	0.135	0.204	0.288	0.386	0.498	0.625	0.766
			NC	<15	<15	20	27	33	38	42	46	49	>50
			Throw(Ft)@50,100,150Fpm	10,2,2	16,8,5	20,13,9	23,17,11	25,20,13	27,23,15	29,25,17	30,27,18	31,28,19	32,30,20
2"	1 Slot	0.344 FT ²	AIRFLOW (CFM/M)	69	120	172	224	275	327	378	430	482	533
			SP (Inch. Wg)	0.010	0.029	0.059	0.100	0.151	0.213	0.286	0.369	0.463	0.568
			NC	<15	<15	<15	20	26	31	35	39	43	46
			Throw(Ft)@50,100,150Fpm	2,2,2	4,3,2	11,8,3	16,12,7	20,15,10	24,17,12	27,19,14	29,21,16	31,23,18	33,24,19
	2 Slots	0.779 FT ²	AIRFLOW (CFM/M)	156	273	390	506	623	740	857	974	1091	1207
			SP (Inch. Wg)	0.012	0.037	0.075	0.127	0.192	0.271	0.363	0.469	0.588	0.721
			NC	<15	<15	22	30	35	40	44	47	>50	>50
			Throw(Ft)@50,100,150Fpm	10,2,2	14,8,5	17,11,7	19,14,9	21,16,10	22,18,11	23,19,12	25,20,13	25,21,14	26,22,14
2.5"	1 Slot	0.674 FT ²	AIRFLOW (CFM/M)	135	236	337	438	539	640	741	843	944	1045
			SP (Inch. Wg)	0.026	0.086	0.175	0.295	0.447	0.630	0.845	1.091	1.369	1.678
			NC	<15	16	20	27	35	41	46	>50	>50	>50
			Throw(Ft)@50,100,150Fpm	2,2,2	6,5,2	11,8,4	15,10,7	18,12,9	20,14,11	22,26,12	24,16,13	26,17,14	27,18,15
	2 Slots	1.273 FT ²	AIRFLOW (CFM/M)	255	446	637	827	1018	1209	1400	1591	1782	1973
			SP (Inch. Wg)	0.027	0.087	0.177	0.300	0.454	0.640	0.858	1.108	1.390	1.704
			NC	<15	17	27	33	38	45	50	>50	>50	>50
			Throw(Ft)@50,100,150Fpm	8,3,2	14,8,5	18,11,7	21,13,9	23,14,10	25,16,11	27,17,12	28,18,13	30,19,14	31,20,15
3"	1 Slot	0.932 FT ²	AIRFLOW (CFM/M)	186	326	466	606	746	885	1025	1165	1305	1445
			SP (Inch. Wg)	0.040	0.123	0.252	0.426	0.645	0.910	1.220	1.575	1.976	2.422
			NC	<15	19	26	35	42	47	>50	>50	>50	>50
			Throw(Ft)@50,100,150Fpm	4,5,2	8,6,3	10,7,5	12,8,6	13,8,7	14,8,7	15,9,8	16,9,9	17,9,9	17,10,10
	2 Slots	1.684 FT ²	AIRFLOW (CFM/M)	337	589	842	1095	1347	1600	1852	2105	2358	2610
			SP (Inch. Wg)	0.041	0.126	0.257	0.434	0.657	0.926	1.242	1.604	2.012	2.466
			NC	15	20	31	36	41	50	>50	>50	>50	>50
			Throw(Ft)@50,100,150Fpm	6,4,2	13,7,5	18,9,7	22,11,9	25,12,10	27,13,11	29,14,12	31,15,13	32,15,13	33,16,14



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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 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 specifyied 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 