



# MODEL LFB -X-JT

## JET THROW FLOW BAR DIFFUSERS

### PERFORMANCE DATA

Size	No. Of Slots	AREA FACTOR AK (Ft <sup>2</sup> ) per M of Length	FACE VELOCITY (FPM)	500	600	700	800	900	1000	1100	1200	1300	1400
1"	1 Slot	AK= .27 FT <sup>2</sup>	AIRFLOW (CFM/M)	135	162	189	216	243	270	297	324	351	378
			SP (Inch. Wg)	0.034	0.049	0.066	0.086	0.109	0.135	0.163	0.194	0.228	0.264
			NC	<15	16	20	24	27	30	33	35	39	41
			Throw(Ft)@50,100,150Fpm	18,12,9	20,14,10	21,16,11	22,18,12	23,20,13	24,21,14	24,22,15	25,23,15	26,24,16	26,25,16
	2 Slots	AK= 0.37 FT <sup>2</sup>	AIRFLOW (CFM/M)	185	222	259	296	333	370	407	444	481	518
			SP (Inch. Wg)	0.029	0.042	0.057	0.074	0.094	0.116	0.140	0.167	0.196	0.227
			NC	<15	<15	18	23	27	30	33	36	39	41
			Throw(Ft)@50,100,150Fpm	39,22,12	43,26,14	47,30,16	50,33,18	53,35,19	56,38,21	58,40,22	60,42,23	62,44,24	64,45,25
1.5"	1 Slot	AK= 0.319 FT <sup>2</sup>	AIRFLOW (CFM/M)	160	191	223	255	287	319	351	383	415	447
			SP (Inch. Wg)	0.027	0.038	0.052	0.068	0.086	0.106	0.128	0.152	0.178	0.206
			NC	<15	<15	<15	18	21	24	27	30	32	34
			Throw(Ft)@50,100,150Fpm	24,13,9	27,16,11	29,18,14	31,20,15	32,21,17	34,23,18	35,24,20	36,25,21	37,26,22	38,27,23
	2 Slots	AK= 0.627 FT <sup>2</sup>	AIRFLOW (CFM/M)	314	376	439	502	564	627	690	752	815	878
			SP (Inch. Wg)	0.023	0.034	0.046	0.060	0.076	0.094	0.114	0.136	0.160	0.186
			NC	<15	<15	18	22	26	29	33	35	38	40
			Throw(Ft)@50,100,150Fpm	37,23,11	43,27,13	49,31,15	52,34,16	55,37,18	58,39,19	61,42,20	63,44,21	66,45,22	68,47,23
2"	1 Slot	AK= 0.365 FT <sup>2</sup>	AIRFLOW (CFM/M)	183	219	256	292	329	365	402	438	475	511
			SP (Inch. Wg)	0.019	0.027	0.037	0.048	0.061	0.075	0.091	0.108	0.127	0.147
			NC	<15	<15	<15	<15	15	18	21	24	26	28
			Throw(Ft)@50,100,150Fpm	29,15,10	31,17,13	33,19,16	35,21,18	36,23,20	38,25,22	39,26,24	40,27,25	41,29,27	42,30,28
	2 Slots	AK= 0.689 FT <sup>2</sup>	AIRFLOW (CFM/M)	345	413	482	551	620	689	758	827	896	965
			SP (Inch. Wg)	0.017	0.025	0.034	0.044	0.056	0.069	0.083	0.099	0.116	0.135
			NC	<15	<15	17	21	25	28	31	34	36	38
			Throw(Ft)@50,100,150Fpm	40,24,10	44,28,12	49,32,13	53,35,15	57,38,16	60,41,17	63,43,18	66,45,19	68,47,20	71,49,21
2.5"	1 Slot	AK= 0.421 FT <sup>2</sup>	AIRFLOW (CFM/M)	211	253	295	337	379	421	463	505	547	589
			SP (Inch. Wg)	0.018	0.025	0.034	0.045	0.057	0.070	0.085	0.101	0.119	0.138
			NC	<15	<15	<15	<15	17	20	23	25	28	30
			Throw(Ft)@50,100,150Fpm	32,18,11	35,21,14	38,24,16	40,26,19	43,28,21	45,31,23	47,32,24	48,34,26	50,36,27	51,37,29
	2 Slots	AK= 0.824 FT <sup>2</sup>	AIRFLOW (CFM/M)	412	494	577	659	742	824	906	989	1071	1154
			SP (Inch. Wg)	0.019	0.028	0.039	0.050	0.063	0.078	0.094	0.112	0.131	0.152
			NC	<15	17	22	26	29	33	36	38	41	43
			Throw(Ft)@50,100,150Fpm	41,27,11	46,31,14	51,35,16	55,38,17	59,41,19	63,44,20	66,46,21	69,48,23	71,50,24	74,52,24
3"	1 Slot	AK= 0.474 FT <sup>2</sup>	AIRFLOW (CFM/M)	237	284	332	379	427	474	521	569	616	664
			SP (Inch. Wg)	0.016	0.023	0.031	0.040	0.051	0.063	0.076	0.090	0.106	0.123
			NC	<15	<15	<15	15	19	22	24	27	29	31
			Throw(Ft)@50,100,150Fpm	34,20,11	38,24,14	42,27,17	45,30,19	48,33,21	51,36,23	53,38,24	55,40,26	58,42,27	59,43,29
	2 Slots	AK= 0.941 FT <sup>2</sup>	AIRFLOW (CFM/M)	471	565	659	753	847	941	1035	1129	1223	1317
			SP (Inch. Wg)	0.022	0.031	0.042	0.055	0.070	0.086	0.104	0.124	0.146	0.169
			NC	15	21	26	30	33	36	39	42	44	46
			Throw(Ft)@50,100,150Fpm	42,28,12	47,32,15	52,36,18	57,40,20	61,43,21	64,46,23	67,48,24	70,50,25	73,53,27	75,54,28



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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 wall throwing horizontaly in the room 