

MB-30 3/4" SLOT WIDTH SUPPLY - 1-, 2-, 3-, OR 4-WAY BLOW PATTERN

		Neck Velocity	300	400	500	600	700	800	900	1000	1100
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.051	0.062	0.075
1-Slot	8" Dia.	Airflow,cfm	105	140	175	209	244	279	314	349	384
		Total Pressure	0.047	0.084	0.131	0.188	0.257	0.335	0.424	0.524	0.633
		NC (Noise Criteria)	19	25	30	34	37	40	43	45	47
		Throw	4-6-12	5-8-16	7-10-20	8-12-24	9-14-28	11-16-32	12-18-35	13-20-37	15-22-39
		Airflow,cfm	105	140	175	209	244	279	314	349	384
2-Slot	8" Dia.	Total Pressure	0.018	0.032	0.049	0.071	0.097	0.126	0.160	0.197	0.238
		NC (Noise Criteria)	-	14	19	23	27	29	32	34	36
		Throw	2-4-9	3-6-12	5-7-15	6-9-18	7-10-21	8-12-24	9-13-26	10-15-29	11-16-32
		Airflow,cfm	164	218	273	327	382	436	491	545	600
2-Slot	10" Dia.	Total Pressure	0.035	0.063	0.098	0.141	0.192	0.250	0.317	0.391	0.474
		NC (Noise Criteria)	16	22	27	31	34	37	40	42	44
		Throw	4-7-14	6-9-18	8-11-23	9-14-28	11-16-32	12-18-37	14-21-41	15-23-46	17-25-48
		Airflow,cfm	105	140	175	209	244	279	314	349	384
3-Slot	8" Dia.	Total Pressure	0.011	0.019	0.030	0.043	0.058	0.076	0.096	0.118	0.143
		NC (Noise Criteria)	-	15	20	24	27	30	33	35	37
		Throw	1-2-7	2-4-10	3-6-12	4-7-15	6-9-17	7-10-20	7-11-22	8-12-25	9-14-27
		Airflow,cfm	164	218	273	327	382	436	491	545	600
3-Slot	10" Dia.	Total Pressure	0.018	0.032	0.050	0.071	0.097	0.127	0.161	0.198	0.240
		NC (Noise Criteria)	17	23	28	32	35	38	40	43	45
		Throw	3-6-12	5-8-16	7-10-20	8-12-23	9-14-27	10-16-31	12-18-35	13-20-39	14-21-43
		Airflow,cfm	236	314	393	471	550	628	707	785	864
3-Slot	12" Dia.	Total Pressure	0.031	0.055	0.086	0.124	0.169	0.221	0.279	0.345	0.417
		NC (Noise Criteria)	23	29	34	38	41	44	47	49	51
		Throw	5-8-17	7-11-22	9-14-28	11-17-34	13-20-39	15-22-45	17-25-51	19-28-55	21-31-58
		Airflow,cfm	105	140	175	209	244	279	314	349	384
4-Slot	8" Dia.	Total Pressure	0.009	0.016	0.025	0.036	0.049	0.064	0.081	0.100	0.121
		NC (Noise Criteria)	-	12	17	21	24	27	29	32	34
		Throw	1-2-7	1-3-9	2-5-11	3-7-14	4-8-16	6-9-18	7-10-20	8-11-23	8-12-25
		Airflow,cfm	164	218	273	327	382	436	491	545	600
4-Slot	10" Dia.	Total Pressure	0.014	0.025	0.038	0.055	0.075	0.098	0.125	0.154	0.186
		NC (Noise Criteria)	13	20	24	28	32	35	37	39	41
		Throw	2-4-11	3-7-14	5-9-18	7-11-21	8-12-25	9-14-28	11-16-32	12-18-35	13-19-39
		Airflow,cfm	236	314	393	471	550	628	707	785	864
4-Slot	12" Dia.	Total Pressure	0.023	0.040	0.063	0.091	0.124	0.161	0.204	0.252	0.305
		NC (Noise Criteria)	20	26	31	35	38	41	43	46	48
		Throw	4-8-15	7-10-20	8-13-25	10-15-31	12-18-36	14-20-41	15-23-46	17-25-51	19-28-56
		Airflow,cfm	321	428	535	641	748	855	962	1069	1176
4-Slot	14" Dia.	Total Pressure	0.037	0.066	0.104	0.149	0.203	0.265	0.335	0.414	0.501
		NC (Noise Criteria)	25	31	36	40	43	46	49	51	53
		Throw	7-10-21	9-14-28	12-17-35	14-21-42	16-24-49	18-28-55	21-31-61	23-35-65	25-38-68
		Airflow,cfm	321	428	535	641	748	855	962	1069	1176



MB-30 1" SLOT WIDTH SUPPLY - 1-, 2-, 3-, OR 4-WAY BLOW PATTERN

		Neck Velocity	300	400	500	600	700	800	900	1000	1100
		Velocity Pressure	0.006	0.010	0.016	0.022	0.031	0.040	0.051	0.062	0.075
1-Slot	8" Dia.	Airflow,cfm	105	140	175	209	244	279	314	349	384
		Total Pressure	0.033	0.058	0.091	0.131	0.178	0.233	0.295	0.364	0.441
		NC (Noise Criteria)	15	21	26	30	33	36	38	41	43
		Throw	3-5-10	5-7-14	6-9-17	7-10-21	8-12-24	9-14-28	10-16-31	12-17-35	13-19-38
2-Slot	8" Dia.	Airflow,cfm	105	140	175	209	244	279	314	349	384
		Total Pressure	0.014	0.025	0.039	0.056	0.076	0.100	0.126	0.155	0.188
		NC (Noise Criteria)	-	-	16	20	23	26	28	30	33
		Throw	1-3-8	2-5-10	3-6-13	5-8-15	6-9-18	7-10-21	8-12-23	9-13-26	9-14-28
2-Slot	10" Dia.	Airflow,cfm	164	218	273	327	382	436	491	545	600
		Total Pressure	0.026	0.046	0.072	0.104	0.142	0.185	0.235	0.290	0.351
		NC (Noise Criteria)	12	19	23	27	31	33	36	38	40
		Throw	3-6-12	5-8-16	7-10-20	8-12-24	9-14-28	11-16-32	12-18-36	13-20-40	15-22-44
3-Slot	8" Dia.	Airflow,cfm	105	140	175	209	244	279	314	349	384
		Total Pressure	0.009	0.017	0.026	0.037	0.051	0.066	0.084	0.103	0.125
		NC (Noise Criteria)	-	12	17	21	24	27	30	32	34
		Throw	1-2-7	1-3-9	2-5-11	3-7-13	4-8-16	5-9-18	7-10-20	7-11-22	8-12-24
3-Slot	10" Dia.	Airflow,cfm	164	218	273	327	382	436	491	545	600
		Total Pressure	0.015	0.026	0.040	0.058	0.079	0.104	0.131	0.162	0.196
		NC (Noise Criteria)	14	20	25	29	32	35	37	40	42
		Throw	2-4-10	3-7-14	5-9-17	7-10-21	8-12-24	9-14-28	10-16-31	12-17-35	13-19-38
3-Slot	12" Dia.	Airflow,cfm	236	314	393	471	550	628	707	785	864
		Total Pressure	0.024	0.043	0.067	0.097	0.132	0.172	0.218	0.269	0.325
		NC (Noise Criteria)	20	26	31	35	38	41	44	46	48
		Throw	4-8-15	7-10-20	8-13-25	10-15-30	12-18-35	13-20-40	15-23-45	17-25-50	18-28-55
4-Slot	8" Dia.	Airflow,cfm	105	140	175	209	244	279	314	349	384
		Total Pressure	0.008	0.015	0.023	0.033	0.045	0.058	0.074	0.091	0.110
		NC (Noise Criteria)	-	-	14	18	21	24	26	29	31
		Throw	1-1-5	1-2-8	2-4-10	2-5-12	3-7-14	4-8-16	5-9-18	6-10-20	7-11-22
4-Slot	10" Dia.	Airflow,cfm	164	218	273	327	382	436	491	545	600
		Total Pressure	0.012	0.021	0.033	0.048	0.065	0.085	0.107	0.132	0.160
		NC (Noise Criteria)	-	17	22	26	29	32	34	36	39
		Throw	1-3-10	2-6-13	4-8-16	6-10-19	7-11-22	8-13-25	10-14-29	11-16-32	12-18-35
4-Slot	12" Dia.	Airflow,cfm	236	314	393	471	550	628	707	785	864
		Total Pressure	0.019	0.033	0.052	0.075	0.102	0.133	0.168	0.208	0.251
		NC (Noise Criteria)	17	23	28	32	35	38	41	43	45
		Throw	3-7-14	5-9-18	8-11-23	9-14-28	11-16-32	12-18-37	14-21-41	15-23-46	17-25-50
4-Slot	14" Dia.	Airflow,cfm	321	428	535	641	748	855	962	1069	1176
		Total Pressure	0.030	0.053	0.083	0.119	0.163	0.212	0.269	0.332	0.401
		NC (Noise Criteria)	22	28	33	37	41	43	46	48	50
		Throw	5-9-19	8-12-25	10-16-31	12-19-37	15-22-44	17-25-50	19-28-56	21-31-62	23-34-68

- Data obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006. Actual performance, with flexible duct inlet, may vary in the field. See the section Engineering Guidelines for additional information.
- If the diffuser is mounted on an exposed duct, the throw values are 70% of those listed in the table
- Throw values given are for terminal velocities of 150, 100 and 50 fpm and for isothermal conditions. See the section Engineering Guidelines for the catalog throw data information.
- NC values based on octave band 2 to 7 sound power levels minus a room absorption of 10 dB
- Each NC value represents the noise criteria curve that will not be exceeded by the sound pressure in any of the octave bands, 2 through 7, with a room absorption of 10 dB, re 10⁻¹² watts
- Dash (-) in space denotes an NC value of less than 10
- All pressures are given in inches of water
- To obtain static pressure, subtract the velocity pressure from the total pressure

PERFORMANCE DATA

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MBR-30 RETURN WITH LIGHT SHIELD

		Size	Negative Static Pressure	0.007	0.028	0.063	0.108	0.17	0.25	0.345	0.45
¾" Wide Slot	1 Slot	Airflow, cfm	75	150	225	300	375	450	525	600	
		NC (Noise Criteria)	-	-	16	24	30	35	39	43	
	2 Slot	Airflow, cfm	145	290	435	580	725	870	1015	1160	
		NC (Noise Criteria)	-	12	20	28	34	39	43	47	
	3 Slot	Airflow, cfm	210	420	630	840	1050	1260	1470	1680	
		NC (Noise Criteria)	-	15	21	29	35	40	44	48	
	4 Slot	Airflow, cfm	270	540	810	1080	1350	1620	1890	2160	
		NC (Noise Criteria)	-	17	22	30	36	40	45	49	
1" Wide Slot		Size	Negative Static Pressure	0.018	0.04	0.07	0.108	0.16	0.215	0.28	0.45
	1 Slot	Airflow, cfm	147	220	293	367	440	513	586	733	
		NC (Noise Criteria)	-	-	17	23	28	32	36	42	
	2 Slot	Airflow, cfm	280	420	560	700	840	980	1120	1400	
		NC (Noise Criteria)	-	16	24	30	35	39	43	49	
	3 Slot	Airflow, cfm	400	600	800	1000	1200	1400	1600	2000	
		NC (Noise Criteria)	-	19	27	33	38	42	46	52	
	4 Slot	Airflow, cfm	507	760	1013	1267	1520	1773	2026	2533	
		NC (Noise Criteria)	-	21	29	35	40	44	48	54	

- Static pressures are in negative inches of water
- NC based on room absorption of 10 dB re 10⁻¹² watts
- Data obtained per ANSI/ASHRAE Standard 70-2006

