

TBD-80 1-SLOT / ADJUSTABLE / GASKETED BLADE

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6" Inlet, 1-Slot	¾" Slot Width	2' Long	Airflow, cfm	25	35	45	55	65	75	85
			Total Pressure	0.021	0.041	0.068	0.102	0.142	0.189	0.243
			Static Pressure	0.020	0.039	0.064	0.096	0.134	0.179	0.230
			NC (Noise Criteria)	-	16	23	28	33	37	40
			Throw	3-7-14	6-10-20	9-13-23	10-16-25	14-19-27	14-21-29	16-22-31
		4' Long	Airflow, cfm	30	45	60	75	90	105	120
			Total Pressure	0.014	0.032	0.057	0.090	0.129	0.175	0.229
			Static Pressure	0.013	0.029	0.051	0.079	0.114	0.156	0.203
			NC (Noise Criteria)	-	12	20	26	31	35	39
			Throw	2-5-10	5-8-12	7-10-14	8-11-16	10-12-17	11-13-19	12-14-20
		5' Long	Airflow, cfm	35	55	75	95	115	135	155
			Total Pressure	0.017	0.041	0.077	0.124	0.181	0.250	0.329
	Static Pressure		0.015	0.036	0.067	0.108	0.158	0.217	0.286	
	NC (Noise Criteria)		-	14	23	29	34	39	43	
	Throw		2-5-9	5-7-12	7-10-13	9-11-15	10-12-17	10-13-18	11-14-19	
	1" Slot Width	2' Long	Airflow, cfm	30	45	60	75	90	105	120
			Total Pressure	0.015	0.034	0.060	0.093	0.134	0.182	0.238
			Static Pressure	0.013	0.030	0.053	0.083	0.120	0.163	0.213
			NC (Noise Criteria)	-	11	19	25	30	34	38
			Throw	3-7-15	7-11-22	10-15-26	12-19-29	15-22-32	17-25-35	20-26-37
		4' Long	Airflow, cfm	50	73	95	118	140	163	185
			Total Pressure	0.017	0.036	0.062	0.094	0.134	0.180	0.233
			Static Pressure	0.013	0.026	0.045	0.070	0.099	0.133	0.172
			NC (Noise Criteria)	-	14	21	27	32	36	39
Throw			4-7-13	7-11-16	9-13-18	11-14-20	13-15-22	14-17-23	14-18-25	
5' Long		Airflow, cfm	70	100	130	160	190	220	250	
		Total Pressure	0.028	0.057	0.097	0.146	0.206	0.276	0.357	
	Static Pressure	0.019	0.039	0.066	0.101	0.142	0.190	0.245		
	NC (Noise Criteria)	-	19	26	32	37	41	44		
	Throw	5-8-13	8-11-16	10-13-18	11-14-20	12-15-21	13-16-23	14-17-25		
1½" Slot Width	2' Long	Airflow, cfm	40	58	75	93	110	128	145	
		Total Pressure	0.020	0.041	0.070	0.107	0.151	0.203	0.262	
		Static Pressure	0.017	0.035	0.060	0.091	0.129	0.174	0.224	
		NC (Noise Criteria)	-	17	24	30	35	39	42	
		Throw	3-7-16	6-12-23	10-15-29	12-19-33	15-22-36	17-26-38	19-29-41	
	4' Long	Airflow, cfm	60	83	105	128	150	173	195	
		Total Pressure	0.021	0.040	0.064	0.095	0.131	0.173	0.221	
		Static Pressure	0.015	0.027	0.044	0.066	0.091	0.120	0.153	
		NC (Noise Criteria)	-	16	23	28	33	36	40	
		Throw	3-7-14	6-10-17	8-12-19	10-15-21	12-16-23	14-17-24	15-18-26	
	5' Long	Airflow, cfm	80	108	135	163	190	218	245	
		Total Pressure	0.032	0.058	0.091	0.132	0.180	0.236	0.300	
Static Pressure		0.021	0.037	0.059	0.085	0.116	0.152	0.193		
NC (Noise Criteria)		12	20	26	31	36	39	43		
Throw		4-8-14	7-10-16	9-13-18	10-14-20	12-15-21	13-16-23	14-17-24		
8" Inlet, 1-Slot	¾" Slot Width	2' Long	Airflow, cfm	30	43	55	68	80	93	105
			Total Pressure	0.029	0.058	0.098	0.147	0.207	0.276	0.356
			Static Pressure	0.028	0.057	0.096	0.144	0.202	0.270	0.348
		NC (Noise Criteria)	-	15	22	28	33	37	40	
		Throw	5-9-17	8-12-22	10-16-25	13-19-28	15-21-30	18-23-33	20-25-35	
		4' Long	Airflow, cfm	45	63	80	98	115	133	150
	Total Pressure		0.020	0.038	0.062	0.092	0.128	0.170	0.218	
	Static Pressure		0.018	0.035	0.058	0.086	0.119	0.158	0.202	
	NC (Noise Criteria)	-	15	22	27	32	36	39		
	Throw	5-8-12	7-10-15	9-12-16	10-13-18	11-14-20	12-15-21	13-16-23		
	5' Long	Airflow, cfm	60	83	105	128	150	173	195	
		Total Pressure	0.027	0.052	0.084	0.124	0.171	0.227	0.290	
Static Pressure		0.025	0.047	0.076	0.113	0.156	0.206	0.263		
NC (Noise Criteria)		-	19	26	31	36	40	43		
Throw		5-8-12	7-10-14	9-11-16	10-12-18	11-13-19	12-14-20	13-15-22		

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8" Inlet, 1-Slot (continued)	1" Slot Width	2' Long	Airflow, cfm	40	60	80	100	120	140	160
			Total Pressure	0.030	0.068	0.121	0.188	0.271	0.369	0.482
			Static Pressure	0.029	0.065	0.116	0.181	0.261	0.356	0.464
			NC (Noise Criteria)	-	13	21	27	32	37	40
			Throw	5-10-20	10-15-26	13-20-30	16-24-34	20-26-37	23-28-40	25-30-43
		4' Long	Airflow, cfm	55	83	110	138	165	193	220
			Total Pressure	0.014	0.031	0.055	0.085	0.123	0.167	0.219
			Static Pressure	0.012	0.026	0.046	0.072	0.104	0.142	0.185
			NC (Noise Criteria)	-	11	19	25	30	35	38
			Throw	5-8-14	8-12-17	11-14-19	12-15-22	14-17-24	15-18-26	16-19-27
		5' Long	Airflow, cfm	75	110	145	180	215	250	285
			Total Pressure	0.019	0.041	0.071	0.110	0.157	0.212	0.276
	Static Pressure		0.015	0.033	0.057	0.088	0.125	0.169	0.220	
	NC (Noise Criteria)		-	16	24	29	34	39	42	
	Throw		6-9-13	9-12-16	11-13-19	12-15-21	13-16-23	14-17-25	15-19-26	
	1½" Slot Width	2' Long	Airflow, cfm	50	70	90	110	130	150	170
			Total Pressure	0.030	0.060	0.099	0.147	0.206	0.274	0.352
			Static Pressure	0.029	0.056	0.093	0.139	0.194	0.258	0.332
			NC (Noise Criteria)	-	16	23	29	33	37	41
			Throw	5-10-20	9-14-28	12-18-32	15-22-36	17-26-39	20-29-42	23-31-44
		4' Long	Airflow, cfm	75	105	135	165	195	225	255
			Total Pressure	0.020	0.039	0.065	0.097	0.136	0.181	0.232
			Static Pressure	0.016	0.032	0.053	0.078	0.110	0.146	0.187
			NC (Noise Criteria)	-	17	24	29	34	38	41
Throw			5-9-16	8-12-19	11-15-21	13-17-24	15-18-26	16-20-28	17-21-29	
5' Long		Airflow, cfm	100	140	180	220	260	300	340	
		Total Pressure	0.028	0.055	0.091	0.135	0.189	0.252	0.323	
	Static Pressure	0.021	0.041	0.068	0.102	0.142	0.190	0.243		
	NC (Noise Criteria)	12	21	28	34	38	42	46		
	Throw	6-10-16	9-13-18	11-15-21	13-16-23	14-18-25	16-19-27	17-20-29		
10" Inlet, 1-Slot	¾" Slot Width	2' Long	Airflow, cfm	30	43	55	68	80	93	105
			Total Pressure	0.038	0.076	0.128	0.193	0.271	0.362	0.466
			Static Pressure	0.038	0.076	0.127	0.191	0.268	0.359	0.462
			NC (Noise Criteria)	-	11	18	24	29	33	36
			Throw	5-9-17	8-12-22	10-16-25	13-19-28	15-21-30	18-23-33	20-25-35
		4' Long	Airflow, cfm	50	73	95	118	140	163	185
			Total Pressure	0.020	0.042	0.073	0.111	0.158	0.212	0.275
			Static Pressure	0.019	0.040	0.069	0.106	0.150	0.203	0.263
			NC (Noise Criteria)	-	15	23	29	33	38	41
			Throw	6-8-13	8-11-16	10-13-18	12-14-20	13-15-22	14-17-23	14-18-25
		5' Long	Airflow, cfm	70	103	135	168	200	233	265
			Total Pressure	0.028	0.061	0.105	0.162	0.231	0.312	0.405
	Static Pressure		0.026	0.057	0.099	0.152	0.216	0.292	0.380	
	NC (Noise Criteria)		-	21	29	35	40	44	48	
	Throw		6-9-13	9-11-16	10-13-18	12-14-20	13-16-22	14-17-24	15-18-25	
	1" Slot Width	2' Long	Airflow, cfm	40	53	65	78	90	103	115
			Total Pressure	0.047	0.081	0.123	0.175	0.237	0.307	0.386
			Static Pressure	0.046	0.080	0.122	0.173	0.234	0.303	0.381
			NC (Noise Criteria)	-	-	11	16	20	24	27
			Throw	5-10-20	9-13-25	11-16-27	13-19-30	15-22-32	17-24-34	19-26-36
		4' Long	Airflow, cfm	60	95	130	165	200	235	270
			Total Pressure	0.015	0.037	0.069	0.111	0.163	0.225	0.298
			Static Pressure	0.013	0.034	0.063	0.101	0.149	0.205	0.271
			NC (Noise Criteria)	-	11	20	27	32	36	40
Throw			6-9-14	9-13-18	12-15-21	14-17-24	15-18-26	16-20-28	17-21-30	
5' Long		Airflow, cfm	80	135	190	245	300	355	410	
		Total Pressure	0.018	0.050	0.099	0.165	0.248	0.347	0.463	
	Static Pressure	0.015	0.044	0.086	0.144	0.215	0.301	0.402		
	NC (Noise Criteria)	-	18	27	34	40	44	48		
	Throw	6-9-14	10-13-18	12-15-21	14-17-24	16-19-27	17-21-29	18-22-31		

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10" Inlet, 1-Slot (continued)	1½" Slot Width	2' Long	Airflow, cfm	60	80	100	120	140	160	180
			Total Pressure	0.058	0.104	0.162	0.233	0.318	0.415	0.525
			Static Pressure	0.057	0.101	0.158	0.228	0.310	0.406	0.513
			NC (Noise Criteria)	-	16	22	27	32	35	38
			Throw	7-12-24	11-16-30	13-20-34	16-24-37	19-28-40	22-30-43	24-32-46
		4' Long	Airflow, cfm	90	120	150	180	210	240	270
			Total Pressure	0.024	0.043	0.067	0.097	0.132	0.172	0.218
			Static Pressure	0.021	0.038	0.059	0.085	0.116	0.151	0.191
			NC (Noise Criteria)	-	17	23	28	32	36	39
			Throw	7-11-17	10-14-20	12-16-23	14-17-25	15-19-27	16-20-28	17-21-30
		5' Long	Airflow, cfm	120	160	200	240	280	320	360
			Total Pressure	0.031	0.055	0.085	0.123	0.167	0.218	0.276
			Static Pressure	0.025	0.045	0.071	0.102	0.139	0.181	0.229
			NC (Noise Criteria)	13	21	27	32	37	40	44
			Throw	8-11-17	10-14-20	13-16-22	14-17-24	15-18-26	16-20-28	17-21-30
12" Inlet, 1-Slot	¾" Slot Width	4' Long	Airflow, cfm	75	100	125	150	175	200	225
			Total Pressure	0.049	0.087	0.135	0.195	0.265	0.346	0.438
			Static Pressure	0.048	0.085	0.133	0.192	0.261	0.341	0.431
			NC (Noise Criteria)	-	18	24	29	34	37	41
			Throw	8-11-16	11-13-18	12-15-21	13-16-23	14-17-24	15-18-26	16-20-28
		5' Long	Airflow, cfm	100	135	170	205	240	275	310
			Total Pressure	0.050	0.091	0.145	0.211	0.289	0.380	0.482
			Static Pressure	0.049	0.089	0.141	0.205	0.281	0.369	0.469
			NC (Noise Criteria)	15	23	29	35	39	43	46
			Throw	9-11-16	10-13-18	12-14-20	13-16-22	14-17-24	15-18-26	16-19-27
	1" Slot Width	4' Long	Airflow, cfm	90	120	150	180	210	240	270
			Total Pressure	0.043	0.077	0.120	0.173	0.236	0.308	0.390
			Static Pressure	0.042	0.075	0.117	0.169	0.230	0.300	0.380
			NC (Noise Criteria)	-	12	18	23	27	31	34
			Throw	9-12-17	12-14-20	13-16-23	14-17-25	15-19-27	16-20-28	17-21-30
		5' Long	Airflow, cfm	130	180	230	280	330	380	430
			Total Pressure	0.149	0.285	0.466	0.690	0.958	1.271	1.627
			Static Pressure	0.146	0.281	0.458	0.679	0.944	1.251	1.602
			NC (Noise Criteria)	-	19	26	32	36	40	44
			Throw	10-13-18	12-15-21	14-17-24	15-18-26	16-20-28	18-21-30	19-23-32
	1½" Slot Width	4' Long	Airflow, cfm	100	140	180	220	260	300	340
			Total Pressure	0.033	0.064	0.106	0.159	0.222	0.295	0.379
			Static Pressure	0.031	0.062	0.102	0.152	0.213	0.283	0.363
			NC (Noise Criteria)	-	15	22	27	32	36	39
			Throw	8-12-18	11-15-22	14-17-25	16-19-27	17-21-30	18-23-32	20-24-34
		5' Long	Airflow, cfm	150	210	270	330	390	450	510
			Total Pressure	0.042	0.083	0.137	0.205	0.286	0.381	0.490
			Static Pressure	0.039	0.077	0.127	0.190	0.266	0.354	0.455
			NC (Noise Criteria)	13	23	30	35	40	44	47
			Throw	10-13-19	13-16-23	15-18-26	16-20-28	18-22-31	19-23-33	20-25-35

1-SLOT PERFORMANCE NOTES

- Throw values given are for terminal velocities of 150, 100 and 50 fpm and for isothermal conditions
- All pressures given are in inches of wg
- 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
- 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 section Engineering Guidelines and the topic 'Other Grille and Diffuser Application Factors' for additional information.

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6" Inlet, 2-Slot	¾" Slot Width	2' Long	Airflow, cfm	40	55	70	85	100	115	130
			Total Pressure	0.025	0.048	0.078	0.115	0.159	0.210	0.269
			Static Pressure	0.023	0.043	0.069	0.102	0.141	0.187	0.239
			NC (Noise Criteria)	-	17	24	29	34	38	41
			Throw	3-7-16	6-11-22	9-14-28	11-17-31	13-20-34	15-23-36	17-26-39
		4' Long	Airflow, cfm	40	65	90	115	140	165	190
			Total Pressure	0.018	0.046	0.089	0.145	0.215	0.298	0.395
			Static Pressure	0.015	0.039	0.074	0.121	0.180	0.249	0.331
			NC (Noise Criteria)	-	11	20	27	33	37	41
			Throw	1-3-10	4-8-15	7-11-17	9-14-20	11-15-22	13-17-24	15-18-25
		5' Long	Airflow, cfm	60	90	120	150	180	210	240
			Total Pressure	0.037	0.082	0.146	0.229	0.329	0.448	0.585
	Static Pressure		0.030	0.068	0.121	0.188	0.271	0.369	0.482	
	NC (Noise Criteria)		-	17	25	31	36	40	44	
	Throw		2-6-11	6-9-15	8-11-17	10-13-19	11-15-21	13-16-23	16-20-28	
	1" Slot Width	2' Long	Airflow, cfm	60	83	105	128	150	173	195
			Total Pressure	0.025	0.046	0.075	0.111	0.153	0.203	0.259
			Static Pressure	0.018	0.034	0.056	0.082	0.113	0.150	0.191
			NC (Noise Criteria)	-	17	24	29	34	38	41
			Throw	4-10-21	8-14-29	12-18-35	15-22-38	17-26-42	20-30-45	23-34-47
		4' Long	Airflow, cfm	75	110	145	180	215	250	285
			Total Pressure	0.025	0.053	0.092	0.142	0.202	0.274	0.356
			Static Pressure	0.015	0.031	0.054	0.084	0.120	0.162	0.211
			NC (Noise Criteria)	-	15	22	28	33	37	41
Throw			3-7-15	7-11-19	10-15-22	12-17-25	15-19-27	17-21-29	18-22-31	
5' Long		Airflow, cfm	90	138	185	233	280	328	375	
		Total Pressure	0.032	0.076	0.137	0.217	0.314	0.430	0.564	
	Static Pressure	0.018	0.042	0.076	0.120	0.174	0.238	0.312		
	NC (Noise Criteria)	-	17	25	32	37	41	45		
	Throw	4-7-15	8-11-18	10-15-21	13-17-24	15-18-26	16-20-28	17-21-30		
1½" Slot Width	2' Long	Airflow, cfm	60	83	105	128	150	173	195	
		Total Pressure	0.021	0.040	0.064	0.095	0.131	0.173	0.221	
		Static Pressure	0.015	0.027	0.044	0.066	0.091	0.120	0.153	
		NC (Noise Criteria)	-	16	23	28	33	36	40	
		Throw	2-5-17	4-10-24	7-15-30	11-18-36	14-21-42	16-25-45	19-28-47	
	4' Long	Airflow, cfm	70	110	150	190	230	270	310	
		Total Pressure	0.019	0.048	0.089	0.144	0.210	0.290	0.382	
		Static Pressure	0.011	0.027	0.049	0.079	0.116	0.160	0.210	
		NC (Noise Criteria)	-	13	22	28	34	38	42	
		Throw	2-3-12	4-9-18	7-13-23	11-16-25	13-19-28	15-21-30	17-23-32	
	5' Long	Airflow, cfm	100	157.5	215	272.5	330	387.5	445	
		Total Pressure	0.037	0.091	0.170	0.274	0.401	0.553	0.730	
Static Pressure		0.019	0.047	0.088	0.141	0.207	0.285	0.376		
NC (Noise Criteria)		-	20	28	35	40	45	49		
Throw		2-5-14	6-11-20	10-15-23	12-18-26	15-20-28	17-22-31	19-23-33		
8" Inlet, 2-Slot	¾" Slot Width	2' Long	Airflow, cfm	30	53	75	98	120	143	165
			Total Pressure	0.009	0.027	0.054	0.092	0.140	0.197	0.264
			Static Pressure	0.008	0.025	0.051	0.086	0.130	0.183	0.245
			NC (Noise Criteria)	-	-	20	27	33	38	42
			Throw	2-4-12	5-11-21	10-15-29	13-20-34	16-24-37	19-29-41	22-31-44
		4' Long	Airflow, cfm	60	90	120	150	180	210	240
			Total Pressure	0.019	0.043	0.076	0.119	0.172	0.234	0.306
			Static Pressure	0.017	0.037	0.066	0.104	0.150	0.204	0.266
			NC (Noise Criteria)	-	15	23	29	34	38	42
			Throw	3-7-14	7-11-17	10-14-20	12-16-23	14-17-25	15-19-27	16-20-28
		5' Long	Airflow, cfm	90	128	165	203	240	278	315
			Total Pressure	0.038	0.076	0.128	0.193	0.271	0.362	0.467
Static Pressure	0.033		0.065	0.109	0.165	0.231	0.309	0.398		
NC (Noise Criteria)	11		21	28	34	38	42	46		
Throw	6-9-15		8-12-18	11-14-20	13-16-22	14-17-24	15-18-26	16-20-28		

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8" Inlet, 2-Slot (continued)	1" Slot Width	2' Long	Airflow, cfm	75	103	130	158	185	213	240
			Total Pressure	0.025	0.047	0.076	0.112	0.155	0.204	0.260
			Static Pressure	0.022	0.040	0.065	0.095	0.131	0.173	0.221
			NC (Noise Criteria)	-	17	24	29	34	37	41
			Throw	7-13-26	12-18-34	15-23-39	18-28-43	22-32-46	25-35-49	28-37-53
		4' Long	Airflow, cfm	90	133	175	218	260	303	345
			Total Pressure	0.018	0.039	0.068	0.105	0.150	0.203	0.263
			Static Pressure	0.012	0.027	0.047	0.072	0.103	0.139	0.181
			NC (Noise Criteria)	-	14	21	27	32	37	40
			Throw	5-9-17	9-14-21	12-17-24	15-19-27	17-21-30	18-23-32	20-24-34
		5' Long	Airflow, cfm	115	183	250	318	385	453	520
			Total Pressure	0.025	0.064	0.120	0.193	0.284	0.393	0.519
	Static Pressure		0.016	0.041	0.077	0.124	0.182	0.252	0.333	
	NC (Noise Criteria)		-	19	28	35	40	44	48	
	Throw		6-10-17	10-15-21	14-17-25	16-20-28	18-22-31	19-23-33	20-25-35	
	1½" Slot Width	2' Long	Airflow, cfm	75	105	135	165	195	225	255
			Total Pressure	0.020	0.039	0.065	0.097	0.136	0.181	0.232
			Static Pressure	0.016	0.032	0.053	0.078	0.110	0.146	0.187
			NC (Noise Criteria)	-	17	24	29	34	38	41
			Throw	4-8-21	7-15-20	12-19-39	16-24-44	19-28-47	21-32-51	24-36-54
		4' Long	Airflow, cfm	90	135	180	225	270	315	360
			Total Pressure	0.016	0.035	0.063	0.098	0.141	0.192	0.251
			Static Pressure	0.010	0.023	0.040	0.063	0.091	0.124	0.161
			NC (Noise Criteria)	-	13	21	27	32	37	40
Throw			3-6-15	6-11-21	10-15-25	13-19-28	15-21-30	18-23-33	20-25-35	
5' Long		Airflow, cfm	115	175	235	295	355	415	475	
		Total Pressure	0.023	0.052	0.095	0.149	0.216	0.295	0.386	
	Static Pressure	0.014	0.031	0.056	0.089	0.129	0.176	0.231		
	NC (Noise Criteria)	-	17	25	31	36	41	44		
	Throw	3-7-16	7-12-21	11-16-24	13-19-27	16-21-29	18-22-32	20-24-34		
10" Inlet, 2-Slot	¾" Slot Width	2' Long	Airflow, cfm	40	65	90	115	140	165	190
			Total Pressure	0.013	0.034	0.065	0.106	0.158	0.219	0.290
			Static Pressure	0.012	0.032	0.062	0.102	0.150	0.209	0.277
			NC (Noise Criteria)	-	12	21	28	33	38	42
			Throw	3-7-16	8-13-26	12-18-32	15-23-36	19-28-40	22-31-44	26-33-47
		4' Long	Airflow, cfm	80	110	140	170	200	230	260
			Total Pressure	0.022	0.042	0.069	0.101	0.140	0.185	0.237
			Static Pressure	0.020	0.038	0.062	0.091	0.126	0.166	0.212
			NC (Noise Criteria)	-	16	23	28	33	37	40
			Throw	6-10-16	9-13-19	11-15-22	13-17-24	15-18-26	16-20-28	17-21-30
		5' Long	Airflow, cfm	120	155	190	225	260	295	330
			Total Pressure	0.043	0.071	0.107	0.150	0.201	0.258	0.323
	Static Pressure		0.038	0.063	0.094	0.132	0.176	0.227	0.284	
	NC (Noise Criteria)		15	22	28	33	37	40	43	
	Throw		8-11-17	10-14-19	12-15-21	13-17-23	14-18-25	15-19-27	16-20-28	
	1" Slot Width	2' Long	Airflow, cfm	90	120	150	180	210	240	270
			Total Pressure	0.033	0.059	0.092	0.132	0.180	0.235	0.298
			Static Pressure	0.030	0.054	0.084	0.121	0.164	0.214	0.271
			NC (Noise Criteria)	-	18	24	29	33	37	40
			Throw	10-16-31	14-21-37	17-26-42	21-31-46	24-35-49	28-37-53	31-39-56
		4' Long	Airflow, cfm	120	170	220	270	320	370	420
			Total Pressure	0.022	0.044	0.074	0.111	0.156	0.209	0.269
			Static Pressure	0.017	0.034	0.056	0.085	0.119	0.159	0.205
			NC (Noise Criteria)	-	17	24	30	34	38	42
Throw			8-12-20	12-17-24	15-19-27	17-21-30	19-23-33	20-25-35	22-27-38	
5' Long		Airflow, cfm	150	220	290	360	430	500	570	
		Total Pressure	0.028	0.061	0.105	0.162	0.232	0.313	0.407	
	Static Pressure	0.020	0.043	0.075	0.115	0.165	0.223	0.289		
	NC (Noise Criteria)	-	20	28	34	39	43	47		
	Throw	8-12-19	12-16-23	15-19-26	17-21-30	19-23-32	20-25-35	21-26-37		

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Inlet	Slot Width	Length	Performance Data															
			Airflow, cfm	Total Pressure	Static Pressure	NC (Noise Criteria)	Throw	Airflow, cfm	Total Pressure	Static Pressure	NC (Noise Criteria)	Throw						
10" Inlet, 2-Slot (continued)	1½" Slot Width	2' Long	Airflow, cfm	90	125	160	195	230	265	300	Airflow, cfm	90	125	160	195	230	265	300
			Total Pressure	0.024	0.047	0.077	0.114	0.158	0.210	0.269	Total Pressure	0.024	0.047	0.077	0.114	0.158	0.210	0.269
			Static Pressure	0.021	0.041	0.067	0.100	0.139	0.184	0.236	Static Pressure	0.021	0.041	0.067	0.100	0.139	0.184	0.236
		NC (Noise Criteria)	-	18	25	30	35	38	42	NC (Noise Criteria)	-	18	25	30	35	38	42	
		Throw	5-12-26	10-18-36	15-23-43	19-28-47	22-33-51	25-38-55	29-42-59	Throw	5-12-26	10-18-36	15-23-43	19-28-47	22-33-51	25-38-55	29-42-59	
		Airflow, cfm	100	155	210	265	320	375	430	Airflow, cfm	100	155	210	265	320	375	430	
	4' Long	Total Pressure	0.013	0.031	0.057	0.090	0.131	0.181	0.237	Total Pressure	0.013	0.031	0.057	0.090	0.131	0.181	0.237	
		Static Pressure	0.009	0.022	0.041	0.065	0.094	0.130	0.170	Static Pressure	0.009	0.022	0.041	0.065	0.094	0.130	0.170	
		NC (Noise Criteria)	-	13	21	28	33	37	41	NC (Noise Criteria)	-	13	21	28	33	37	41	
	5' Long	Throw	3-7-17	8-13-23	12-18-27	15-21-30	18-23-33	21-25-36	22-27-38	Throw	3-7-17	8-13-23	12-18-27	15-21-30	18-23-33	21-25-36	22-27-38	
		Airflow, cfm	150	225	300	375	450	525	600	Airflow, cfm	150	225	300	375	450	525	600	
		Total Pressure	0.024	0.055	0.098	0.152	0.220	0.299	0.390	Total Pressure	0.024	0.055	0.098	0.152	0.220	0.299	0.390	
12" Inlet, 2-Slot	¾" Slot Width	4' Long	Static Pressure	0.016	0.037	0.065	0.102	0.146	0.199	0.260	Static Pressure	0.016	0.037	0.065	0.102	0.146	0.199	0.260
			NC (Noise Criteria)	-	20	28	34	39	43	47	NC (Noise Criteria)	-	20	28	34	39	43	47
			Throw	5-10-19	10-15-23	14-19-27	17-21-30	19-23-33	21-25-36	22-27-38	Throw	5-10-19	10-15-23	14-19-27	17-21-30	19-23-33	21-25-36	22-27-38
5' Long		Airflow, cfm	100	140	180	220	260	300	340	Airflow, cfm	100	140	180	220	260	300	340	
		Total Pressure	0.022	0.043	0.072	0.107	0.150	0.200	0.256	Total Pressure	0.022	0.043	0.072	0.107	0.150	0.200	0.256	
		Static Pressure	0.021	0.041	0.067	0.101	0.141	0.187	0.241	Static Pressure	0.021	0.041	0.067	0.101	0.141	0.187	0.241	
1" Slot Width	NC (Noise Criteria)	-	17	24	29	34	38	41	NC (Noise Criteria)	-	17	24	29	34	38	41		
	Throw	8-12-18	11-15-22	14-17-25	16-19-27	17-21-30	18-23-32	20-24-34	Throw	8-12-18	11-15-22	14-17-25	16-19-27	17-21-30	18-23-32	20-24-34		
	Airflow, cfm	150	200	250	300	350	400	450	Airflow, cfm	150	200	250	300	350	400	450		
¾" Slot Width	Total Pressure	0.038	0.068	0.106	0.152	0.207	0.270	0.342	Total Pressure	0.038	0.068	0.106	0.152	0.207	0.270	0.342		
	Static Pressure	0.035	0.062	0.097	0.140	0.190	0.249	0.315	Static Pressure	0.035	0.062	0.097	0.140	0.190	0.249	0.315		
	NC (Noise Criteria)	15	23	29	34	39	42	46	NC (Noise Criteria)	15	23	29	34	39	42	46		
1" Slot Width	Throw	10-13-19	13-16-22	14-17-25	16-19-27	17-21-29	18-22-31	19-23-33	Throw	10-13-19	13-16-22	14-17-25	16-19-27	17-21-29	18-22-31	19-23-33		
	Airflow, cfm	120	185	250	315	380	445	510	Airflow, cfm	120	185	250	315	380	445	510		
	Total Pressure	0.015	0.036	0.067	0.106	0.154	0.211	0.277	Total Pressure	0.015	0.036	0.067	0.106	0.154	0.211	0.277		
1½" Slot Width	4' Long	Static Pressure	0.013	0.032	0.058	0.092	0.134	0.184	0.242	Static Pressure	0.013	0.032	0.058	0.092	0.134	0.184	0.242	
		NC (Noise Criteria)	-	13	21	28	33	37	41	NC (Noise Criteria)	-	13	21	28	33	37	41	
		Throw	5-12-20	13-18-25	17-21-29	19-23-33	21-25-36	22-27-39	24-29-42	Throw	5-12-20	13-18-25	17-21-29	19-23-33	21-25-36	22-27-39	24-29-42	
1½" Slot Width	5' Long	Airflow, cfm	180	285	390	495	600	705	810	Airflow, cfm	180	285	390	495	600	705	810	
		Total Pressure	0.025	0.063	0.117	0.189	0.278	0.383	0.506	Total Pressure	0.025	0.063	0.117	0.189	0.278	0.383	0.506	
		Static Pressure	0.021	0.052	0.097	0.156	0.229	0.316	0.417	Static Pressure	0.021	0.052	0.097	0.156	0.229	0.316	0.417	
1½" Slot Width	4' Long	NC (Noise Criteria)	-	22	30	37	42	47	50	NC (Noise Criteria)	-	22	30	37	42	47	50	
		Throw	10-15-21	15-19-26	18-22-31	20-24-35	22-27-38	24-29-41	26-31-44	Throw	10-15-21	15-19-26	18-22-31	20-24-35	22-27-38	24-29-41	26-31-44	
		Airflow, cfm	150	210	270	330	390	450	510	Airflow, cfm	150	210	270	330	390	450	510	
1½" Slot Width	5' Long	Total Pressure	0.018	0.036	0.060	0.089	0.125	0.166	0.213	Total Pressure	0.018	0.036	0.060	0.089	0.125	0.166	0.213	
		Static Pressure	0.015	0.030	0.050	0.075	0.104	0.139	0.178	Static Pressure	0.015	0.030	0.050	0.075	0.104	0.139	0.178	
		NC (Noise Criteria)	-	15	22	28	32	36	40	NC (Noise Criteria)	-	15	22	28	32	36	40	
1½" Slot Width	5' Long	Throw	7-13-23	12-18-27	15-21-30	18-24-33	21-26-36	23-28-39	24-29-42	Throw	7-13-23	12-18-27	15-21-30	18-24-33	21-26-36	23-28-39	24-29-42	
		Airflow, cfm	200	290	380	470	560	650	740	Airflow, cfm	200	290	380	470	560	650	740	
		Total Pressure	0.033	0.069	0.118	0.181	0.257	0.346	0.449	Total Pressure	0.033	0.069	0.118	0.181	0.257	0.346	0.449	
1½" Slot Width	5' Long	Static Pressure	0.027	0.058	0.099	0.151	0.215	0.289	0.375	Static Pressure	0.027	0.058	0.099	0.151	0.215	0.289	0.375	
		NC (Noise Criteria)	-	21	28	34	39	43	47	NC (Noise Criteria)	-	21	28	34	39	43	47	
		Throw	9-14-22	13-19-26	17-21-30	19-24-34	21-26-37	23-28-40	24-30-42	Throw	9-14-22	13-19-26	17-21-30	19-24-34	21-26-37	23-28-40	24-30-42	

2-SLOT PERFORMANCE NOTES

- Throw values given are for terminal velocities of 150, 100 and 50 fpm and for isothermal conditions
- All pressures given are in inches of wg
- 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
- 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 section, Engineering Guidelines and the topic 'Other Grille and Diffuser Application Factors' for additional information.
- Throws listed are for the one-way air pattern. For divided airflow, select the airflow in each direction according to the number of slots aimed in that direction, with the total airflow apportioned between slots. See section, Engineering Guidelines and the topic 'Procedure to Obtain Catalog Throw Data' in this catalog for throw information.

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6" Inlet, 3-Slot	¾" Slot Width	2' Long	Airflow, cfm	50	68	85	103	120	138	155
			Total Pressure	0.031	0.057	0.090	0.130	0.179	0.234	0.298
			Static Pressure	0.027	0.048	0.077	0.112	0.153	0.201	0.255
			NC (Noise Criteria)	-	17	23	28	33	37	40
		Throw	3-6-16	5-10-22	7-14-28	11-17-34	13-20-37	15-23-40	17-26-42	
		4' Long	Airflow, cfm	70	95	120	145	170	195	220
			Total Pressure	0.047	0.087	0.139	0.203	0.279	0.367	0.468
			Static Pressure	0.039	0.071	0.113	0.166	0.228	0.300	0.381
			NC (Noise Criteria)	-	16	22	27	32	36	39
		Throw	2-5-14	4-9-18	7-12-20	9-14-22	11-16-24	13-18-26	14-19-27	
		5' Long	Airflow, cfm	90	123	155	188	220	253	285
			Total Pressure	0.074	0.138	0.221	0.323	0.445	0.586	0.747
	Static Pressure		0.060	0.111	0.178	0.260	0.359	0.472	0.602	
	NC (Noise Criteria)		-	19	26	31	35	39	43	
	Throw	3-7-14	6-10-17	8-12-19	10-15-21	11-16-23	13-17-25	15-19-26		
	1" Slot Width	2' Long	Airflow, cfm	60	90	120	150	180	210	240
			Total Pressure	0.018	0.041	0.073	0.114	0.164	0.224	0.292
			Static Pressure	0.012	0.027	0.047	0.074	0.107	0.145	0.189
			NC (Noise Criteria)	-	13	21	27	33	37	40
		Throw	2-5-17	5-12-26	9-17-34	14-21-42	17-26-46	20-30-49	23-34-53	
		4' Long	Airflow, cfm	100	143	185	228	270	313	355
			Total Pressure	0.038	0.077	0.129	0.195	0.275	0.369	0.476
			Static Pressure	0.020	0.040	0.068	0.103	0.145	0.194	0.251
			NC (Noise Criteria)	-	15	23	28	33	37	41
Throw		3-7-17	6-12-22	10-16-25	13-19-28	15-21-30	18-23-33	20-24-35		
5' Long		Airflow, cfm	115	170	225	280	335	390	445	
		Total Pressure	0.047	0.103	0.180	0.279	0.400	0.542	0.705	
	Static Pressure	0.023	0.051	0.090	0.139	0.199	0.270	0.351		
	NC (Noise Criteria)	-	17	25	31	36	40	43		
Throw	3-7-16	7-12-20	10-15-23	13-18-26	15-20-28	18-22-31	19-23-33			
1½" Slot Width	2' Long	Airflow, cfm	75	105	135	165	195	225	255	
		Total Pressure	0.025	0.050	0.082	0.123	0.172	0.229	0.294	
		Static Pressure	0.015	0.030	0.050	0.074	0.104	0.138	0.177	
		NC (Noise Criteria)	-	16	23	29	34	38	41	
	Throw	2-5-17	4-9-24	7-15-31	10-19-38	14-23-45	17-26-51	20-30-54		
	4' Long	Airflow, cfm	100	145	190	235	280	325	370	
		Total Pressure	0.035	0.074	0.126	0.193	0.275	0.370	0.480	
		Static Pressure	0.017	0.036	0.062	0.095	0.135	0.181	0.235	
		NC (Noise Criteria)	-	15	22	28	33	37	41	
	Throw	2-4-14	4-8-20	6-13-25	10-16-28	13-19-31	15-22-33	17-25-35		
	5' Long	Airflow, cfm	125	185	245	305	365	425	485	
		Total Pressure	0.052	0.114	0.200	0.310	0.444	0.601	0.783	
Static Pressure		0.024	0.053	0.093	0.144	0.206	0.279	0.363		
NC (Noise Criteria)		-	18	26	32	37	41	45		
Throw	2-5-14	5-10-20	8-14-24	11-17-27	13-20-30	16-23-32	18-24-34			
8" Inlet, 3-Slot	¾" Slot Width	2' Long	Airflow, cfm	55	80	105	130	155	180	205
			Total Pressure	0.020	0.042	0.072	0.110	0.156	0.210	0.273
			Static Pressure	0.018	0.037	0.064	0.098	0.139	0.188	0.244
			NC (Noise Criteria)	-	16	23	29	34	38	42
		Throw	3-7-18	6-13-26	11-17-35	14-21-39	17-26-42	20-30-46	23-34-49	
		4' Long	Airflow, cfm	90	125	160	195	230	265	300
			Total Pressure	0.035	0.068	0.111	0.165	0.230	0.305	0.391
			Static Pressure	0.030	0.057	0.093	0.139	0.193	0.256	0.329
			NC (Noise Criteria)	-	17	24	30	34	38	42
		Throw	4-9-17	8-12-21	10-16-23	13-18-26	15-20-28	17-21-30	18-23-32	
		5' Long	Airflow, cfm	125	170	215	260	305	350	395
			Total Pressure	0.063	0.116	0.185	0.271	0.373	0.491	0.625
Static Pressure	0.052		0.096	0.153	0.224	0.309	0.406	0.517		
NC (Noise Criteria)	14		23	29	34	39	42	46		
Throw	6-10-17	9-13-20	11-16-23	14-18-25	16-19-27	17-21-29	18-22-31			

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8" Inlet, 3-Slot (continued)	1" Slot Width	2' Long	Airflow, cfm	75	115	155	195	235	275	315
			Total Pressure	0.016	0.037	0.067	0.107	0.155	0.212	0.279
			Static Pressure	0.012	0.028	0.051	0.081	0.117	0.160	0.210
			NC (Noise Criteria)	-	14	23	29	34	38	42
			Throw	4-8-21	9-16-33	15-22-42	19-28-47	22-34-52	26-39-56	30-43-60
		4' Long	Airflow, cfm	115	170	225	280	335	390	445
			Total Pressure	0.023	0.050	0.088	0.137	0.196	0.265	0.346
			Static Pressure	0.014	0.031	0.053	0.083	0.118	0.161	0.209
			NC (Noise Criteria)	-	14	22	28	33	37	41
			Throw	4-9-19	9-14-24	13-19-28	16-22-31	19-24-34	21-26-36	22-27-39
		5' Long	Airflow, cfm	145	215	285	355	425	495	565
			Total Pressure	0.033	0.073	0.129	0.200	0.287	0.389	0.507
	Static Pressure		0.019	0.041	0.073	0.113	0.162	0.220	0.286	
	NC (Noise Criteria)		-	18	25	31	36	41	44	
	Throw		5-10-19	10-15-23	13-19-26	16-21-29	19-23-32	20-24-35	21-26-37	
	1½" Slot Width	2' Long	Airflow, cfm	80	120	160	200	240	280	320
			Total Pressure	0.029	0.065	0.116	0.181	0.260	0.354	0.462
			Static Pressure	0.024	0.055	0.098	0.153	0.220	0.300	0.392
			NC (Noise Criteria)	-	14	22	28	33	38	41
			Throw	2-5-19	5-12-28	9-19-37	14-23-47	19-28-53	22-33-57	25-37-61
		4' Long	Airflow, cfm	125	180	235	290	345	400	455
			Total Pressure	0.025	0.051	0.087	0.133	0.188	0.252	0.327
			Static Pressure	0.014	0.029	0.049	0.075	0.106	0.142	0.184
			NC (Noise Criteria)	-	15	22	28	33	37	41
Throw			3-6-17	6-12-25	10-16-28	13-20-31	16-24-34	18-26-37	21-28-39	
5' Long		Airflow, cfm	170	240	310	380	450	520	590	
		Total Pressure	0.042	0.084	0.140	0.210	0.294	0.393	0.506	
	Static Pressure	0.022	0.044	0.073	0.110	0.155	0.207	0.266		
	NC (Noise Criteria)	-	19	26	32	37	41	44		
	Throw	4-9-19	8-13-24	11-17-27	14-21-30	17-23-33	19-25-35	22-27-38		
10" Inlet, 3-Slot	¾" Slot Width	2' Long	Airflow, cfm	60	90	120	150	180	210	240
			Total Pressure	0.017	0.037	0.067	0.104	0.150	0.204	0.266
			Static Pressure	0.015	0.035	0.061	0.096	0.138	0.188	0.245
			NC (Noise Criteria)	-	15	23	29	34	38	42
			Throw	4-8-20	8-15-30	13-20-37	16-25-42	20-30-46	23-35-49	26-37-53
		4' Long	Airflow, cfm	100	143	185	228	270	313	355
			Total Pressure	0.027	0.054	0.091	0.138	0.194	0.260	0.335
			Static Pressure	0.023	0.047	0.079	0.119	0.167	0.224	0.289
			NC (Noise Criteria)	-	17	24	30	35	39	42
			Throw	5-10-18	9-14-22	12-18-25	15-20-28	17-21-30	19-23-33	20-24-35
		5' Long	Airflow, cfm	140	195	250	305	360	415	470
			Total Pressure	0.047	0.090	0.149	0.221	0.308	0.410	0.526
	Static Pressure		0.040	0.077	0.126	0.188	0.261	0.347	0.446	
	NC (Noise Criteria)		13	22	29	35	39	43	47	
	Throw		7-11-18	10-15-22	13-17-25	16-19-27	17-21-30	18-22-32	19-24-34	
	1" Slot Width	2' Long	Airflow, cfm	100	140	180	220	260	300	340
			Total Pressure	0.021	0.042	0.069	0.103	0.143	0.191	0.245
			Static Pressure	0.018	0.034	0.057	0.085	0.119	0.158	0.203
			NC (Noise Criteria)	-	16	23	28	33	37	40
			Throw	7-14-29	13-20-40	17-26-46	21-31-50	25-37-55	29-42-59	32-44-63
		4' Long	Airflow, cfm	130	190	250	310	370	430	490
			Total Pressure	0.019	0.040	0.069	0.106	0.150	0.203	0.264
			Static Pressure	0.012	0.027	0.046	0.071	0.101	0.136	0.177
			NC (Noise Criteria)	-	14	21	27	32	36	40
Throw			5-11-21	11-16-25	14-21-29	17-23-32	20-25-35	22-27-38	23-29-41	
5' Long		Airflow, cfm	160	240	320	400	480	560	640	
		Total Pressure	0.025	0.056	0.099	0.154	0.222	0.302	0.395	
	Static Pressure	0.015	0.035	0.062	0.096	0.139	0.189	0.246		
	NC (Noise Criteria)	-	17	25	31	36	40	44		
	Throw	6-11-20	11-16-24	14-20-28	18-22-31	20-24-34	21-26-37	23-28-39		

TBD-80 3-SLOT / ADJUSTABLE / GASKETED BLADE

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10" Inlet, 3-Slot (continued)	1½" Slot Width	2' Long	Airflow, cfm	100	145	190	235	280	325	370
			Total Pressure	0.017	0.036	0.061	0.094	0.133	0.180	0.233
			Static Pressure	0.013	0.028	0.048	0.074	0.105	0.141	0.183
			NC (Noise Criteria)	-	16	23	29	34	38	41
		Throw	4-8-23	8-17-34	13-22-44	18-27-52	22-33-57	25-38-61	29-43-65	
		4' Long	Airflow, cfm	150	210	270	330	390	450	510
			Total Pressure	0.022	0.043	0.071	0.106	0.147	0.196	0.252
			Static Pressure	0.014	0.027	0.044	0.066	0.092	0.123	0.158
			NC (Noise Criteria)	-	15	22	28	32	36	40
		Throw	4-9-21	8-14-27	12-19-30	15-23-33	18-26-36	21-28-39	23-29-42	
		5' Long	Airflow, cfm	200	275	350	425	500	575	650
			Total Pressure	0.035	0.065	0.106	0.156	0.216	0.286	0.366
Static Pressure	0.020		0.038	0.062	0.091	0.126	0.166	0.213		
NC (Noise Criteria)	-		19	26	31	36	40	43		
Throw	5-11-22	10-15-26	13-19-29	16-23-32	18-25-35	21-26-37	23-28-40			
12" Inlet, 3-Slot	¾" Slot Width	4' Long	Airflow, cfm	130	183	235	288	340	393	445
			Total Pressure	0.024	0.047	0.078	0.116	0.163	0.217	0.279
			Static Pressure	0.022	0.042	0.070	0.105	0.147	0.196	0.252
			NC (Noise Criteria)	-	18	25	30	35	39	42
		Throw	8-13-21	12-18-25	15-20-28	18-22-31	20-24-34	21-26-36	22-27-39	
		5' Long	Airflow, cfm	180	265	350	435	520	605	690
			Total Pressure	0.038	0.082	0.144	0.222	0.318	0.430	0.559
			Static Pressure	0.034	0.073	0.127	0.197	0.281	0.381	0.495
	NC (Noise Criteria)		14	25	32	38	43	48	51	
	Throw	9-14-21	14-18-25	17-21-29	19-23-32	20-25-35	22-27-38	24-29-41		
	1" Slot Width	4' Long	Airflow, cfm	160	235	310	385	460	535	610
			Total Pressure	0.016	0.034	0.060	0.092	0.132	0.178	0.231
			Static Pressure	0.012	0.027	0.047	0.072	0.103	0.139	0.181
			NC (Noise Criteria)	-	13	21	27	32	36	40
		Throw	8-13-23	13-20-28	17-23-32	21-26-36	23-28-39	25-30-43	26-32-45	
		5' Long	Airflow, cfm	200	325	450	575	700	825	950
			Total Pressure	0.020	0.053	0.102	0.166	0.246	0.341	0.453
			Static Pressure	0.015	0.039	0.074	0.121	0.180	0.250	0.331
	NC (Noise Criteria)		-	19	28	35	40	45	49	
	Throw	9-14-22	15-20-28	19-23-33	22-26-37	24-29-41	26-32-45	28-34-48		
	1½" Slot Width	4' Long	Airflow, cfm	200	275	350	425	500	575	650
			Total Pressure	0.021	0.039	0.063	0.093	0.129	0.171	0.218
			Static Pressure	0.015	0.029	0.047	0.069	0.095	0.126	0.161
			NC (Noise Criteria)	-	17	23	29	33	37	40
Throw		7-14-26	13-19-30	16-24-34	19-27-38	23-29-41	25-31-44	27-33-47		
5' Long		Airflow, cfm	300	425	550	675	800	925	1050	
		Total Pressure	0.039	0.078	0.130	0.196	0.275	0.367	0.473	
		Static Pressure	0.027	0.053	0.089	0.134	0.189	0.252	0.325	
	NC (Noise Criteria)	16	25	32	38	43	47	50		
Throw	11-17-27	16-23-32	20-26-36	23-29-40	25-31-44	27-33-47	29-36-50			

3-SLOT PERFORMANCE NOTES

- Throw values given are for terminal velocities of 150, 100 and 50 fpm and for isothermal conditions
- All pressures given are in inches of wg
- 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
- 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 section, Engineering Guidelines and the topic 'Other Grille and Diffuser Application Factors' for additional information.
- Throws listed are for the one-way air pattern. For divided airflow, select the airflow in each direction according to the number of slots aimed in that direction, with the total airflow apportioned between slots. See section, Engineering Guidelines and the topic 'Procedure to Obtain Catalog Throw Data' in this catalog for throw information.

TBD-80 4-SLOT / ADJUSTABLE / GASKETED BLADE

6" Inlet, 4-Slot	¾" Slot Width	2' Long	Airflow, cfm	60	80	100	120	140	160	180
			Total Pressure	0.039	0.070	0.109	0.158	0.215	0.280	0.355
			Static Pressure	0.033	0.059	0.092	0.132	0.180	0.235	0.297
			NC (Noise Criteria)	-	17	23	28	33	36	40
		Throw	2-5-17	4-9-23	7-14-29	9-17-34	13-20-40	15-23-43	17-26-46	
		4' Long	Airflow, cfm	80	105	130	155	180	205	230
			Total Pressure	0.058	0.100	0.153	0.218	0.294	0.382	0.480
			Static Pressure	0.047	0.080	0.123	0.175	0.236	0.307	0.386
			NC (Noise Criteria)	-	14	20	25	29	33	36
		Throw	2-5-13	3-8-18	5-11-21	8-13-23	10-15-25	11-17-26	13-19-28	
		5' Long	Airflow, cfm	100	130	160	190	220	250	280
			Total Pressure	0.087	0.148	0.224	0.316	0.423	0.547	0.686
	Static Pressure		0.070	0.118	0.178	0.251	0.337	0.435	0.546	
	NC (Noise Criteria)		-	17	22	27	31	35	38	
	Throw	2-5-14	4-9-18	6-11-20	9-13-21	10-15-23	11-17-25	13-18-26		
	1" Slot Width	2' Long	Airflow, cfm	65	100	135	170	205	240	275
			Total Pressure	0.019	0.044	0.080	0.127	0.184	0.252	0.331
			Static Pressure	0.011	0.026	0.047	0.075	0.109	0.149	0.196
			NC (Noise Criteria)	-	12	20	27	32	36	40
		Throw	2-4-16	4-10-25	8-17-33	12-21-42	17-25-49	20-30-53	23-34-56	
		4' Long	Airflow, cfm	115	158	200	243	285	328	370
			Total Pressure	0.046	0.087	0.140	0.206	0.285	0.376	0.480
			Static Pressure	0.023	0.043	0.069	0.101	0.140	0.185	0.236
			NC (Noise Criteria)	-	14	20	26	30	34	37
Throw		3-6-17	5-11-23	8-15-26	12-18-29	14-21-31	16-24-33	18-25-35		
5' Long		Airflow, cfm	130	180	230	280	330	380	430	
		Total Pressure	0.057	0.109	0.178	0.263	0.365	0.485	0.621	
	Static Pressure	0.027	0.051	0.083	0.123	0.171	0.227	0.290		
	NC (Noise Criteria)	-	14	21	26	31	35	38		
Throw	3-6-15	5-11-21	8-13-24	11-16-26	13-19-28	15-21-30	17-23-32			
1½" Slot Width	2' Long	Airflow, cfm	70	105	140	175	210	245	280	
		Total Pressure	0.019	0.044	0.078	0.122	0.175	0.239	0.312	
		Static Pressure	0.011	0.024	0.043	0.067	0.097	0.131	0.172	
		NC (Noise Criteria)	-	12	20	26	31	35	39	
	Throw	1-3-10	3-6-21	5-10-28	7-16-35	10-21-42	14-25-49	18-28-56		
	4' Long	Airflow, cfm	115	160	205	250	295	340	385	
		Total Pressure	0.043	0.084	0.138	0.205	0.286	0.380	0.487	
		Static Pressure	0.020	0.038	0.063	0.094	0.131	0.174	0.222	
		NC (Noise Criteria)	-	13	20	25	30	34	37	
	Throw	1-3-13	3-6-19	5-11-24	7-15-29	10-18-32	13-20-34	15-23-36		
	5' Long	Airflow, cfm	160	215	270	325	380	435	490	
		Total Pressure	0.081	0.146	0.231	0.334	0.457	0.599	0.760	
Static Pressure		0.035	0.064	0.100	0.146	0.199	0.261	0.331		
NC (Noise Criteria)		-	18	24	29	34	37	41		
Throw	2-5-15	4-9-21	6-13-26	9-16-28	12-18-30	14-21-32	16-23-34			
8" Inlet, 4-Slot	¾" Slot Width	2' Long	Airflow, cfm	60	90	120	150	180	210	240
			Total Pressure	0.019	0.043	0.076	0.119	0.172	0.234	0.306
			Static Pressure	0.017	0.037	0.066	0.104	0.150	0.204	0.266
			NC (Noise Criteria)	-	15	23	29	34	38	42
		Throw	2-5-17	5-12-26	9-17-34	14-21-42	17-26-46	20-30-49	23-34-53	
		4' Long	Airflow, cfm	115	155	195	235	275	315	355
			Total Pressure	0.052	0.094	0.149	0.217	0.297	0.390	0.495
			Static Pressure	0.043	0.078	0.123	0.179	0.245	0.321	0.408
			NC (Noise Criteria)	-	19	25	30	35	39	42
		Throw	4-9-19	8-13-23	11-16-26	13-20-28	15-22-30	18-23-33	20-24-35	
		5' Long	Airflow, cfm	170	220	270	320	370	420	470
			Total Pressure	0.107	0.179	0.270	0.379	0.506	0.652	0.817
Static Pressure	0.087		0.146	0.219	0.308	0.412	0.531	0.664		
NC (Noise Criteria)	18		25	31	36	40	43	46		
Throw	7-12-20	10-15-23	12-18-26	14-20-28	17-21-30	18-23-32	19-24-34			

TBD-80 4-SLOT / ADJUSTABLE / GASKETED BLADE

8" Inlet, 4-Slot (continued)	1" Slot Width	2' Long	Airflow, cfm	90	135	180	225	270	315	360
			Total Pressure	0.018	0.040	0.072	0.112	0.161	0.220	0.287
			Static Pressure	0.012	0.028	0.049	0.077	0.111	0.151	0.198
			NC (Noise Criteria)	-	14	22	28	33	38	41
		Throw	3-8-22	8-17-33	14-22-44	19-28-51	22-33-56	26-39-60	30-44-64	
		4' Long	Airflow, cfm	140	200	260	320	380	440	500
			Total Pressure	0.030	0.062	0.105	0.159	0.224	0.300	0.387
			Static Pressure	0.017	0.034	0.058	0.088	0.124	0.167	0.215
			NC (Noise Criteria)	-	15	22	28	32	36	40
		Throw	4-9-20	8-15-26	13-19-30	16-23-33	18-25-36	21-27-39	24-29-41	
		5' Long	Airflow, cfm	180	255	330	405	480	555	630
			Total Pressure	0.047	0.094	0.157	0.237	0.332	0.444	0.573
	Static Pressure		0.024	0.049	0.082	0.124	0.174	0.232	0.299	
	NC (Noise Criteria)		-	18	25	31	35	39	43	
	Throw	5-11-21	10-15-25	13-19-28	16-22-31	19-24-34	21-26-37	23-28-39		
	1½" Slot Width	2' Long	Airflow, cfm	90	133	175	218	260	303	345
			Total Pressure	0.032	0.070	0.122	0.188	0.269	0.364	0.473
			Static Pressure	0.027	0.058	0.101	0.156	0.222	0.301	0.391
			NC (Noise Criteria)	-	13	20	26	31	35	39
		Throw	2-4-17	4-9-27	7-16-35	11-22-44	16-26-52	20-31-59	23-35-63	
		4' Long	Airflow, cfm	140	200	260	320	380	440	500
			Total Pressure	0.028	0.057	0.096	0.146	0.206	0.276	0.356
			Static Pressure	0.014	0.029	0.050	0.075	0.106	0.142	0.184
			NC (Noise Criteria)	-	13	21	26	31	35	39
Throw		2-5-17	4-10-24	8-15-30	11-19-33	15-23-36	17-26-39	20-29-41		
5' Long		Airflow, cfm	190	268	345	423	500	578	655	
		Total Pressure	0.048	0.096	0.159	0.239	0.335	0.447	0.575	
	Static Pressure	0.023	0.047	0.077	0.116	0.163	0.217	0.279		
	NC (Noise Criteria)	-	18	25	31	35	39	43		
Throw	3-7-18	6-13-25	10-17-29	13-20-32	16-24-35	18-26-37	21-28-40			
10" Inlet, 4-Slot	¾" Slot Width	2' Long	Airflow, cfm	80	113	145	178	210	243	275
			Total Pressure	0.022	0.044	0.074	0.110	0.155	0.206	0.265
			Static Pressure	0.020	0.040	0.066	0.099	0.139	0.185	0.238
			NC (Noise Criteria)	-	17	24	29	34	38	41
		Throw	4-9-23	8-16-32	14-21-41	17-25-45	20-30-49	23-35-53	26-39-56	
		4' Long	Airflow, cfm	120	168	215	263	310	358	405
			Total Pressure	0.033	0.065	0.107	0.160	0.222	0.296	0.380
			Static Pressure	0.028	0.055	0.090	0.135	0.188	0.249	0.320
			NC (Noise Criteria)	-	17	24	30	34	38	42
		Throw	5-10-20	9-14-24	12-18-27	15-21-30	17-23-32	20-25-35	21-26-37	
		5' Long	Airflow, cfm	160	213	265	318	370	423	475
			Total Pressure	0.055	0.096	0.150	0.215	0.292	0.380	0.481
	Static Pressure		0.045	0.080	0.124	0.178	0.242	0.316	0.399	
	NC (Noise Criteria)		12	19	26	31	36	39	43	
	Throw	6-11-20	9-15-23	12-18-25	14-20-28	17-21-30	18-23-32	20-24-34		
	1" Slot Width	2' Long	Airflow, cfm	100	150	200	250	300	350	400
			Total Pressure	0.015	0.034	0.061	0.095	0.137	0.187	0.244
			Static Pressure	0.012	0.026	0.047	0.073	0.105	0.142	0.186
			NC (Noise Criteria)	-	13	21	27	32	37	40
		Throw	4-10-25	10-19-37	16-25-48	21-31-54	25-37-59	29-43-63	33-48-68	
		4' Long	Airflow, cfm	150	220	290	360	430	500	570
			Total Pressure	0.021	0.045	0.078	0.121	0.172	0.233	0.303
			Static Pressure	0.013	0.028	0.048	0.074	0.105	0.143	0.185
			NC (Noise Criteria)	-	13	21	27	32	36	40
Throw		5-10-22	10-16-27	14-21-31	17-25-35	21-27-38	24-29-41	25-31-44		
5' Long		Airflow, cfm	190	280	370	460	550	640	730	
		Total Pressure	0.031	0.066	0.116	0.179	0.256	0.346	0.451	
	Static Pressure	0.017	0.038	0.066	0.102	0.146	0.198	0.257		
	NC (Noise Criteria)	-	16	24	30	35	39	43		
Throw	6-11-21	11-16-26	14-21-30	18-24-33	21-26-36	23-28-39	24-30-42			

TBD-80 4-SLOT / ADJUSTABLE / GASKETED BLADE

10" Inlet, 4-Slot (continued)	1½" Slot Width	2' Long	Airflow, cfm	100	155	210	265	320	375	430
			Total Pressure	0.013	0.031	0.057	0.090	0.131	0.181	0.237
			Static Pressure	0.009	0.022	0.041	0.065	0.094	0.130	0.170
			NC (Noise Criteria)	-	13	21	28	33	37	41
		Throw	2-5-20	6-13-31	10-21-42	16-27-53	22-32-61	25-38-66	29-43-70	
		4' Long	Airflow, cfm	160	235	310	385	460	535	610
			Total Pressure	0.022	0.046	0.081	0.125	0.178	0.241	0.313
			Static Pressure	0.012	0.026	0.046	0.071	0.101	0.137	0.178
			NC (Noise Criteria)	-	14	22	28	32	37	40
		Throw	3-6-19	6-14-28	11-18-32	15-23-36	18-27-39	21-30-43	24-32-45	
		5' Long	Airflow, cfm	220	315	410	505	600	695	790
			Total Pressure	0.037	0.077	0.130	0.197	0.278	0.374	0.483
Static Pressure	0.020		0.041	0.069	0.105	0.148	0.198	0.256		
NC (Noise Criteria)	-		19	26	32	36	40	44		
Throw	4-9-21	8-15-28	13-20-31	16-24-35	19-27-38	22-29-41	25-31-44			
12" Inlet, 4-Slot	¾" Slot Width	4' Long	Airflow, cfm	150	210	270	330	390	450	510
			Total Pressure	0.025	0.050	0.082	0.122	0.171	0.227	0.292
			Static Pressure	0.022	0.044	0.072	0.108	0.150	0.200	0.257
			NC (Noise Criteria)	-	17	24	30	34	38	42
		Throw	7-13-23	12-18-27	15-21-30	18-24-33	21-26-36	23-28-39	24-29-42	
		5' Long	Airflow, cfm	200	300	400	500	600	700	800
	Total Pressure		0.039	0.088	0.157	0.245	0.353	0.480	0.627	
	Static Pressure		0.034	0.076	0.135	0.211	0.304	0.414	0.541	
	NC (Noise Criteria)		13	24	32	38	43	47	51	
	Throw	9-14-22	14-19-27	18-22-31	20-25-35	22-27-38	24-29-41	25-31-44		
	1" Slot Width	4' Long	Airflow, cfm	190	290	390	490	590	690	790
			Total Pressure	0.017	0.040	0.072	0.114	0.165	0.226	0.297
Static Pressure			0.012	0.029	0.052	0.082	0.118	0.162	0.212	
NC (Noise Criteria)			-	15	23	29	34	39	42	
Throw		7-14-25	14-21-31	19-26-36	23-29-41	26-32-45	28-34-48	30-37-52		
5' Long		Airflow, cfm	250	400	550	700	850	1000	1150	
	Total Pressure	0.025	0.065	0.122	0.198	0.292	0.404	0.535		
	Static Pressure	0.017	0.043	0.082	0.132	0.195	0.270	0.357		
	NC (Noise Criteria)	-	20	29	36	41	46	49		
Throw	10-15-25	16-22-31	21-26-36	24-29-41	26-32-45	28-35-49	30-37-53			
1½" Slot Width	4' Long	Airflow, cfm	200	300	400	500	600	700	800	
		Total Pressure	0.016	0.037	0.066	0.103	0.148	0.201	0.262	
		Static Pressure	0.011	0.025	0.044	0.069	0.099	0.135	0.176	
		NC (Noise Criteria)	-	15	23	29	34	38	42	
	Throw	4-10-24	10-18-32	16-24-37	20-29-41	24-32-45	28-34-49	30-37-52		
	5' Long	Airflow, cfm	300	425	550	675	800	925	1050	
Total Pressure		0.032	0.064	0.108	0.163	0.228	0.305	0.394		
Static Pressure		0.020	0.040	0.067	0.101	0.142	0.190	0.245		
NC (Noise Criteria)		11	21	28	34	38	42	46		
Throw	8-14-27	14-20-32	18-26-36	22-29-40	25-31-44	27-33-47	29-36-50			

4-SLOT PERFORMANCE NOTES

- Throw values given are for terminal velocities of 150, 100 and 50 fpm and for isothermal conditions
- All pressures given are in inches of wg
- 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
- 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 section, Engineering Guidelines and the topic 'Other Grille and Diffuser Application Factors' for additional information.
- Throws listed are for the one-way air pattern. For divided airflow, select the airflow in each direction according to the number of slots aimed in that direction, with the total airflow apportioned between slots. See section, Engineering Guidelines and the topic 'Procedure to Obtain Catalog Throw Data' in this catalog for throw information.