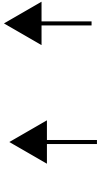




Plenum Slot Diffusers • Gasketed Blade • Performance Data

TBD-80 2-Slot Performance Data (continued)
Adjustable • Gasketed Blade

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	
	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		
10" Inlet, 2-Slot	1 1/2" 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	
	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		
10" Inlet, 2-Slot	3/4" 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	
	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		
10" Inlet, 2-Slot	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	
	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	21-26-31			



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Performance Data

Note: Performance notes appear at end of performance data.

Plenum Slot Diffusers • Gasketed Blade • Performance Data

TBD-80 4-Slot Performance Data (continued)
Adjustable • Gasketed Blade

Performance Data

10" Inlet, 4-Slot (continued)	1 1/2" 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	0.227
			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	25-38-65	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	
	5' Long	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	
		Airflow, cfm	220	315	410	505	600	695	790	
	12" Inlet, 4-Slot	3/4" Slot Width	4' Long	Total Pressure	0.037	0.077	0.130	0.197	0.278	0.374
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	18-24-35	19-27-38	22-29-41	25-31-44
5' 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
1" Slot Width	4' Long	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	
		Airflow, cfm	200	300	400	500	600	700	800	
	5' Long	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	
1 1/2" Slot Width	4' Long	NC (Noise Criteria)	13	21	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	
		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	
	5' Long	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	
1 1/2" Slot Width	4' Long	Throw	7-14-25	14-21-31	19-26-36	23-29-41	26-32-45	28-34-48	30-37-52	
		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	
	5' Long	NC (Noise Criteria)	-	20	29	36	41	46	49	
		Throw	10-15-25	16-22-31	21-26-36	24-29-41	28-32-45	28-35-49	30-37-53	
1 1/2" 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	
	5' Long	Throw	4-10-24	10-18-32	16-24-37	20-29-41	24-32-45	28-34-49	30-37-52	
		Airflow, cfm	300	425	550	675	800	925	1050	
1 1/2" Slot Width	4' Long	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	

- 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 70-1991. 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.