

PTBSS, PTBSSFB Performance Data: Horizontal Throw

IP/METRIC DATA: PTBSS, PTBSSFB, 1" SLOT WIDTH, 1-SLOT (NO DAMPER)

PLENUM SLOT DIFFUSERS

	Linear Length	IP Data					NC	Metric Data					Octave Band, dB						
		Air Flow	Pressure		1-Way Throw	Air Flow		Pressure		1-Way Throw	2	3	4	5	6	7			
			Ps	Pt				Ps	Pt										
		CFM	"WG	"WG	ft	L/s		Pa	Pa	m									
1" Slot Width	2'	50	0.018	0.023	5 - 10 - 18	-	24	4.6	5.7	1.4 - 3.0 - 5.5	33	23	11	-	-	-			
		95	0.066	0.083	12 - 18 - 25	25	45	16.5	20.5	3.7 - 5.3 - 7.5	39	36	27	19	15	-			
		118	0.102	0.126	15 - 20 - 28	30	55	25.3	31.4	4.6 - 5.9 - 8.4	40	41	33	26	22	16			
		140	0.144	0.179	17 - 21 - 30	35	66	35.9	44.6	5.3 - 6.5 - 9.2	42	44	37	31	27	21			
		185	0.252	0.313	20 - 24 - 35	41	87	62.7	77.9	6.1 - 7.4 - 10.5	44	50	44	40	36	30			
	6" Oval Inlet	4	80	0.021	0.033	4 - 9 - 22	-	38	5.3	8.1	1.2 - 2.8 - 6.7	34	24	-	-	-	-		
			155	0.079	0.122	14 - 21 - 32	24	73	19.7	30.4	4.3 - 6.5 - 9.6	39	37	25	18	12	-		
			193	0.122	0.188	18 - 25 - 35	29	91	30.4	46.9	5.4 - 7.6 - 10.7	41	42	30	24	19	12		
			230	0.174	0.269	21 - 27 - 39	34	109	43.4	66.9	6.4 - 8.3 - 11.7	43	46	35	30	25	18		
			305	0.307	0.473	26 - 31 - 44	41	144	76.3	117.7	7.8 - 9.6 - 13.5	45	51	42	38	33	27		
	5'	5'	90	0.022	0.037	4 - 8 - 22	-	42	5.5	9.1	1.1 - 2.5 - 6.7	34	23	-	-	-	-		
			180	0.089	0.146	15 - 22 - 34	24	85	22.0	36.5	4.5 - 6.7 - 10.4	40	38	24	17	11	-		
			225	0.138	0.229	18 - 27 - 38	29	106	34.4	57.0	5.6 - 8.2 - 11.6	42	42	29	24	18	11		
			270	0.199	0.329	22 - 30 - 42	33	127	49.6	82.0	6.7 - 9.0 - 12.7	43	46	34	29	24	17		
			360	0.354	0.586	28 - 34 - 48	40	170	88.2	145.8	8.5 - 10.4 - 14.7	45	52	42	38	33	26		
1" Slot Width	2'	50	0.016	0.018	5 - 10 - 18	-	24	4.1	4.5	1.4 - 3.0 - 5.5	32	19	-	-	-	-			
		105	0.072	0.080	14 - 18 - 26	25	50	17.9	19.8	4.1 - 5.6 - 7.9	38	35	28	20	16	-			
		133	0.115	0.127	17 - 21 - 29	31	63	28.6	31.6	5.1 - 6.3 - 8.9	40	39	34	27	23	17			
		160	0.167	0.185	19 - 23 - 32	35	76	41.6	46.0	5.7 - 6.9 - 9.8	41	43	39	32	29	23			
		190	0.236	0.261	20 - 25 - 35	39	90	58.7	64.9	6.2 - 7.5 - 10.7	43	47	43	37	35	29			
	8" Oval Inlet	4'	100	0.021	0.028	6 - 14 - 25	-	47	5.3	7.0	1.9 - 4.2 - 7.7	34	25	12	-	-	-		
			180	0.069	0.091	16 - 24 - 34	25	85	17.1	22.6	5.0 - 7.3 - 10.4	39	37	27	19	15	-		
			220	0.102	0.136	20 - 27 - 38	30	104	25.5	33.8	6.1 - 8.1 - 11.5	41	41	32	25	21	15		
			260	0.143	0.190	24 - 29 - 41	34	123	35.6	47.2	7.2 - 8.8 - 12.5	42	44	36	30	26	20		
			340	0.245	0.324	27 - 33 - 47	41	160	60.9	80.8	8.2 - 10.1 - 14.3	44	50	43	38	35	28		
	5'	5'	120	0.024	0.033	7 - 15 - 28	-	57	5.9	8.3	2.0 - 4.5 - 8.5	35	26	12	-	-	-		
			220	0.079	0.112	18 - 27 - 38	26	104	19.7	28.0	5.5 - 8.1 - 11.5	40	38	27	20	15	-		
			270	0.119	0.169	22 - 30 - 42	31	127	29.6	42.2	6.7 - 9.0 - 12.7	41	42	32	26	21	15		
			320	0.167	0.238	26 - 32 - 46	35	151	41.6	59.2	8.0 - 9.8 - 13.8	43	46	37	31	27	20		
			420	0.288	0.410	30 - 37 - 52	42	198	71.7	102.0	9.2 - 11.2 - 15.9	45	51	44	39	35	29		
1" Slot Width	2'	60	0.027	0.028	7 - 12 - 20	-	28	6.6	7.0	2.0 - 3.5 - 6.0	32	21	12	-	-	-			
		110	0.090	0.094	14 - 19 - 27	24	52	22.3	23.4	4.3 - 5.7 - 8.1	37	33	28	19	16	-			
		135	0.135	0.142	17 - 21 - 30	29	64	33.6	35.3	5.2 - 6.4 - 9.0	39	37	33	25	22	17			
		160	0.190	0.199	19 - 23 - 32	33	76	47.3	49.6	5.7 - 6.9 - 9.8	40	41	37	30	28	22			
		210	0.327	0.343	21 - 26 - 37	40	99	81.4	85.4	6.5 - 7.9 - 11.2	42	46	44	38	36	31			
	10" Oval Inlet	4'	100	0.017	0.021	6 - 14 - 25	-	47	4.4	5.3	1.9 - 4.2 - 7.7	33	22	-	-	-	-		
			145	0.037	0.044	13 - 20 - 31	18	68	9.2	11.1	4.0 - 6.1 - 9.3	36	30	20	11	-	-		
			235	0.097	0.117	22 - 28 - 39	30	111	24.0	29.0	6.5 - 8.4 - 11.9	40	40	32	25	21	15		
			280	0.137	0.166	25 - 30 - 43	34	132	34.1	41.2	7.5 - 9.2 - 12.9	41	43	37	30	27	21		
			370	0.239	0.289	28 - 35 - 49	41	175	59.6	72.0	8.6 - 10.5 - 14.9	44	49	44	39	36	30		
	5'	5'	120	0.018	0.023	7 - 15 - 28	-	57	4.5	5.8	2.0 - 4.5 - 8.5	33	23	-	-	-	-		
			220	0.061	0.079	18 - 27 - 38	24	104	15.2	19.6	5.5 - 8.1 - 11.5	38	36	26	18	13	-		
			270	0.092	0.119	22 - 30 - 42	29	127	22.9	29.5	6.7 - 9.0 - 12.7	40	40	31	24	20	14		
			320	0.129	0.167	26 - 32 - 46	33	151	32.2	41.5	8.0 - 9.8 - 13.8	41	43	35	29	25	19		
			420	0.223	0.287	30 - 37 - 52	40	198	55.5	71.4	9.2 - 11.2 - 15.9	44	49	42	37	34	28		
1" Slot Width	4'	120	0.024	0.026	9 - 16 - 28	-	57	6.0	6.5	2.8 - 5.0 - 8.5	33	22	13	-	-	-			
		220	0.081	0.088	20 - 27 - 38	25	104	20.2	21.8	6.1 - 8.1 - 11.5	38	35	29	20	17	11			
		270	0.122	0.132	24 - 30 - 42	30	127	30.4	32.8	7.3 - 9.0 - 12.7	39	39	34	26	23	17			
		320	0.171	0.185	26 - 32 - 46	34	151	42.7	46.1	8.0 - 9.8 - 13.8	41	42	38	31	29	23			
		420	0.295	0.319	30 - 37 - 52	41	198	73.5	79.4	9.2 - 11.2 - 15.9	43	48	45	40	37	32			
	12" Oval Inlet	5'	140	0.020	0.023	9 - 17 - 30	-	66	5.1	5.8	2.7 - 5.2 - 9.2	33	22	12	-	-	-		
			260	0.071	0.080	21 - 29 - 41	25	123	17.6	19.8	6.5 - 8.8 - 12.5	38	35	28	20	16	-		
			320	0.107	0.121	26 - 32 - 46	30	151	26.6	30.1	8.0 - 9.8 - 13.8	40	40	33	26	23	17		
			380	0.151	0.170	29 - 35 - 50	34	179	37.5	42.4	8.7 - 10.7 - 15.1	41	43	38	31	28	22		
			500	0.261	0.295	33 - 40 - 57	41	236	65.0	73.4	10.0 - 12.2 - 17.3	43	49	45	40	37	31		

NOTE: See notes on page F1-59.

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PTBSS, PTBSSFB Performance Data: Horizontal Throw

IP/METRIC DATA: PTBSS, PTBSSFB, 1" SLOT WIDTH, 2-SLOT (NO DAMPER)

	Linear Length	IP Data				NC	Metric Data				Octave Band, dB						
		Air Flow	Pressure		1-Way Throw		Air Flow	Pressure		1-Way Throw	2	3	4	5	6	7	
			Ps	Pt				Ps	Pt								
		CFM	"WG	"WG	ft		L/s	Pa	Pa	m							
1" Slot Width	2'	90	0.027	0.041	5 - 12 - 24	-	42	6.6	10.3	1.6 - 3.5 - 7.3	35	26	11	-	-	-	
		160	0.084	0.130	15 - 22 - 32	25	76	21.0	32.4	4.5 - 6.7 - 9.8	40	38	26	19	13	-	
		195	0.125	0.193	18 - 25 - 36	30	92	31.2	48.1	5.4 - 7.6 - 10.8	41	42	31	25	19	13	
		230	0.174	0.269	21 - 27 - 39	34	109	43.4	66.9	6.4 - 8.3 - 11.7	43	46	35	30	25	18	
		300	0.297	0.457	25 - 31 - 44	40	142	73.9	113.9	7.7 - 9.5 - 13.4	45	51	42	38	33	27	
6" Oval Inlet	4'	150	0.045	0.085	5 - 11 - 29	-	71	11.2	21.2	1.5 - 3.5 - 8.9	36	28	-	-	-	-	
		270	0.146	0.276	16 - 26 - 42	25	127	36.3	68.8	5.0 - 8.0 - 12.7	41	40	24	18	11	-	
		330	0.218	0.413	21 - 32 - 46	30	156	54.3	102.7	6.5 - 9.7 - 14.1	43	44	29	24	17	11	
		390	0.305	0.576	25 - 36 - 50	34	184	75.8	143.5	7.7 - 10.8 - 15.3	44	47	33	29	23	16	
		510	0.521	0.986	33 - 41 - 57	40	241	129.7	245.4	10.0 - 12.4 - 17.5	46	53	40	37	31	24	
1" Slot Width	2'	90	0.017	0.023	5 - 12 - 24	-	42	4.3	5.7	1.6 - 3.5 - 7.3	33	22	-	-	-	-	
		170	0.061	0.081	16 - 23 - 33	24	80	15.2	20.2	4.7 - 7.1 - 10.1	38	36	25	17	13	-	
		210	0.093	0.124	19 - 26 - 37	29	99	23.2	30.8	5.8 - 7.9 - 11.2	40	40	31	24	19	13	
		250	0.132	0.175	23 - 28 - 40	33	118	32.9	43.7	7.0 - 8.7 - 12.2	42	44	35	29	25	19	
		330	0.230	0.306	27 - 33 - 46	40	156	57.4	76.1	8.1 - 9.9 - 14.1	44	49	42	37	34	28	
	8" Oval Inlet	4'	170	0.031	0.051	7 - 15 - 33	-	80	7.6	12.6	2.0 - 4.5 - 10.0	35	27	-	-	-	-
			300	0.095	0.157	19 - 29 - 44	24	142	23.7	39.2	5.9 - 8.9 - 13.4	40	38	25	18	12	-
			365	0.141	0.233	24 - 34 - 49	29	172	35.1	58.0	7.2 - 10.5 - 14.8	42	42	30	24	18	12
			430	0.196	0.323	28 - 37 - 53	33	203	48.8	80.5	8.5 - 11.3 - 16.0	43	46	34	29	23	17
			560	0.332	0.548	35 - 43 - 60	40	264	82.7	136.5	10.6 - 12.9 - 18.3	45	51	41	37	32	25
5'	5'	190	0.033	0.057	6 - 13 - 33	-	90	8.1	14.3	1.8 - 4.0 - 10.0	35	26	-	-	-	-	
		350	0.110	0.195	20 - 30 - 48	24	165	27.5	48.5	6.0 - 9.2 - 14.5	40	39	24	17	11	-	
		430	0.167	0.294	25 - 37 - 53	29	203	41.5	73.2	7.6 - 11.3 - 16.0	42	43	29	24	18	11	
		510	0.234	0.414	30 - 41 - 57	33	241	58.4	103.0	9.0 - 12.4 - 17.5	43	46	34	29	23	16	
		670	0.405	0.714	38 - 47 - 66	40	316	100.8	177.8	11.6 - 14.2 - 20.0	46	52	41	37	31	25	
1" Slot Width	2'	100	0.017	0.021	6 - 14 - 25	-	47	4.4	5.3	1.9 - 4.2 - 7.7	33	22	-	-	-	-	
		190	0.063	0.076	17 - 25 - 35	24	90	15.7	19.0	5.3 - 7.5 - 10.7	38	35	27	19	15	-	
		235	0.097	0.117	22 - 28 - 39	30	111	24.0	29.0	6.5 - 8.4 - 11.9	40	40	32	25	21	15	
		280	0.137	0.166	25 - 30 - 43	34	132	34.1	41.2	7.5 - 9.2 - 12.9	41	43	37	30	27	21	
		370	0.239	0.289	28 - 35 - 49	41	175	59.6	72.0	8.6 - 10.5 - 14.9	44	49	44	39	36	30	
	10" Oval Inlet	4'	175	0.023	0.034	7 - 16 - 34	-	83	5.6	8.4	2.1 - 4.7 - 10.2	34	25	-	-	-	-
			258	0.049	0.073	15 - 25 - 41	19	122	12.2	18.2	4.6 - 7.6 - 12.4	38	33	20	11	-	-
			423	0.132	0.196	27 - 37 - 52	31	199	32.8	48.9	8.3 - 11.2 - 15.9	42	43	32	26	21	15
			505	0.188	0.281	33 - 40 - 57	35	238	46.8	69.9	9.9 - 12.3 - 17.4	43	47	37	32	27	21
			670	0.331	0.494	38 - 47 - 66	42	316	82.4	123.0	11.6 - 14.2 - 20.0	45	52	44	40	36	30
	5'	5'	200	0.024	0.039	6 - 15 - 35	-	94	6.0	9.6	2.0 - 4.4 - 10.6	34	25	-	-	-	-
			380	0.087	0.139	22 - 33 - 50	24	179	21.7	34.7	6.7 - 10.0 - 15.1	40	38	25	18	12	-
			470	0.133	0.213	27 - 39 - 55	29	222	33.2	53.1	8.3 - 11.9 - 16.8	41	42	30	24	19	12
560			0.189	0.303	32 - 43 - 60	34	264	47.1	75.4	9.9 - 12.9 - 18.3	43	46	35	29	24	18	
740			0.330	0.529	40 - 49 - 69	41	349	82.2	131.7	12.2 - 14.9 - 21.1	45	52	42	38	33	27	
1" Slot Width	4'	200	0.019	0.025	9 - 19 - 36	-	94	4.8	6.2	2.7 - 5.9 - 10.9	34	24	11	-	-	-	
		370	0.067	0.085	24 - 35 - 49	25	175	16.6	21.2	7.3 - 10.5 - 14.9	39	36	27	19	15	-	
		455	0.101	0.129	29 - 38 - 54	30	215	25.1	32.0	9.0 - 11.7 - 16.5	40	41	32	25	21	15	
		540	0.142	0.181	34 - 42 - 59	34	255	35.3	45.1	10.4 - 12.7 - 18.0	42	44	37	31	27	21	
		710	0.245	0.313	39 - 48 - 68	41	335	61.0	77.9	11.9 - 14.6 - 20.6	44	50	44	39	35	29	
12" Oval Inlet	5'	225	0.019	0.025	8 - 18 - 38	-	106	4.6	6.3	2.5 - 5.6 - 11.6	34	23	-	-	-	-	
		425	0.066	0.091	25 - 37 - 52	24	201	16.5	22.5	7.5 - 11.2 - 16.0	39	36	26	18	13	-	
		525	0.101	0.138	30 - 41 - 58	29	248	25.2	34.4	9.2 - 12.5 - 17.7	41	41	31	24	20	13	
		625	0.143	0.196	36 - 45 - 64	34	295	35.6	48.8	11.0 - 13.7 - 19.3	42	44	36	30	25	19	
		825	0.249	0.341	42 - 52 - 73	40	389	62.1	85.0	12.8 - 15.7 - 22.2	44	50	43	38	34	28	

NOTES: Throw values are given for terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s). Throw values are given for isothermal conditions. Airflow is given for the length of the unit. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re10⁻¹² Watts. Dash in space denotes a NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See selection software for performance data not shown, including octave band data.

PTBSS, PTBSSFB Performance Data: Horizontal Throw

IP/METRIC DATA: PTBSS, PTBSSFB, 1 1/2" SLOT WIDTH, 1-SLOT (NO DAMPER)

PLENUM SLOT DIFFUSERS

	Linear Length	IP Data					NC	Metric Data					Octave Band, dB						
		Air Flow	Pressure		1-Way Throw	Air Flow		Pressure		1-Way Throw	2	3	4	5	6	7			
			Ps	Pt				Ps	Pt										
		CFM	"WG	"WG	ft	L/s		Pa	Pa	m									
1 1/2" Slot Width	2'	50	0.017	0.022	2 - 4 - 10	14	24	4.3	5.4	0.5 - 1.2 - 3.0	44	35	28	20	16	12			
		100	0.069	0.087	7 - 10 - 16	26	47	17.2	21.7	2.0 - 3.0 - 4.7	48	47	41	32	29	24			
		125	0.108	0.136	8 - 12 - 17	30	59	26.9	33.9	2.5 - 3.7 - 5.3	49	50	45	36	34	28			
		150	0.156	0.196	10 - 13 - 19	34	71	38.8	48.8	3.0 - 4.1 - 5.8	50	53	48	40	37	31			
	6" Oval Inlet	4'	200	0.277	0.348	13 - 16 - 22	39	94	68.9	86.7	3.9 - 4.7 - 6.7	52	58	54	45	43	36		
			75	0.011	0.021	1 - 3 - 11	15	35	2.7	5.2	0.4 - 1.0 - 3.2	43	37	29	22	18	14		
			145	0.041	0.079	5 - 10 - 19	27	68	10.2	19.6	1.6 - 3.1 - 5.7	47	48	41	34	31	26		
			180	0.063	0.121	8 - 13 - 21	31	85	15.8	30.2	2.5 - 3.8 - 6.3	48	51	45	38	35	29		
	5'	4'	215	0.090	0.173	10 - 15 - 23	34	101	22.5	43.1	3.1 - 4.6 - 6.9	49	54	48	41	39	32		
			285	0.159	0.304	13 - 19 - 26	39	135	39.6	75.7	4.1 - 5.6 - 8.0	51	59	54	46	44	37		
			85	0.010	0.023	1 - 3 - 11	15	40	2.5	5.7	0.4 - 0.9 - 3.2	43	37	29	23	19	15		
			165	0.037	0.086	5 - 10 - 20	27	78	9.3	21.4	1.5 - 3.1 - 6.1	47	48	41	35	32	26		
1 1/2" Slot Width	2'	205	0.058	0.133	8 - 13 - 22	31	97	14.4	33.1	2.3 - 3.9 - 6.8	48	52	45	38	36	30			
		245	0.083	0.190	10 - 15 - 24	34	116	20.6	47.3	3.1 - 4.7 - 7.4	49	55	49	42	39	33			
		325	0.145	0.334	14 - 20 - 28	39	153	36.2	83.2	4.1 - 6.0 - 8.5	51	59	54	47	45	38			
		60	0.031	0.034	3 - 6 - 12	13	28	7.8	8.4	0.8 - 1.7 - 3.6	45	34	27	18	14	11			
	8" Oval Inlet	4'	130	0.147	0.159	9 - 13 - 18	27	61	36.7	39.6	2.6 - 3.8 - 5.4	49	47	41	32	29	24		
			165	0.237	0.256	11 - 14 - 20	31	78	59.1	63.8	3.3 - 4.3 - 6.1	50	51	46	36	34	28		
			200	0.349	0.376	13 - 16 - 22	34	94	86.8	93.7	3.9 - 4.7 - 6.7	51	54	49	40	37	31		
			270	0.635	0.686	15 - 18 - 26	40	127	158.2	170.7	4.5 - 5.5 - 7.8	53	59	55	45	43	37		
	5'	4'	90	0.014	0.020	2 - 5 - 13	14	42	3.5	4.9	0.6 - 1.4 - 3.8	44	35	28	20	16	13		
			180	0.056	0.078	8 - 13 - 21	26	85	13.9	19.5	2.5 - 3.8 - 6.3	48	47	41	33	30	25		
			225	0.087	0.122	11 - 16 - 23	30	106	21.8	30.5	3.2 - 4.8 - 7.1	49	51	45	37	34	28		
			270	0.126	0.176	13 - 18 - 26	34	127	31.4	43.9	3.8 - 5.5 - 7.8	50	54	48	40	38	32		
5'	4'	360	0.224	0.313	17 - 21 - 30	39	170	55.7	78.0	5.1 - 6.3 - 9.0	52	58	54	45	43	36			
		100	0.012	0.018	2 - 4 - 13	14	47	2.9	4.6	0.5 - 1.2 - 3.8	43	35	28	20	17	13			
		200	0.046	0.074	7 - 13 - 22	26	94	11.5	18.3	2.2 - 3.8 - 6.7	47	47	41	33	30	25			
		250	0.072	0.115	10 - 16 - 25	30	118	17.9	28.7	3.2 - 4.8 - 7.5	49	51	45	37	34	29			
1 1/2" Slot Width	4'	300	0.104	0.166	13 - 19 - 27	33	142	25.8	41.3	3.8 - 5.7 - 8.2	50	54	48	40	38	32			
		400	0.184	0.295	17 - 22 - 31	39	189	45.9	73.4	5.1 - 6.7 - 9.5	51	58	54	46	43	37			
		110	0.021	0.026	3 - 7 - 15	15	52	5.3	6.4	0.9 - 2.1 - 4.7	45	36	28	20	17	13			
		165	0.048	0.058	7 - 12 - 20	22	78	12.0	14.4	2.1 - 3.5 - 6.1	47	43	36	28	24	20			
	10" Oval Inlet	5'	275	0.133	0.161	13 - 18 - 26	31	130	33.2	40.1	3.9 - 5.5 - 7.8	50	51	46	37	34	29		
			330	0.192	0.232	15 - 20 - 28	34	156	47.8	57.7	4.7 - 6.1 - 8.6	51	54	49	40	38	32		
			440	0.342	0.412	19 - 23 - 33	39	208	85.1	102.5	5.7 - 7.0 - 9.9	52	59	54	46	43	37		
			120	0.016	0.021	3 - 6 - 15	14	57	3.9	5.2	0.8 - 1.8 - 4.6	44	36	28	20	17	13		
	1 1/2" Slot Width	4'	240	0.063	0.084	10 - 15 - 24	27	113	15.8	21.0	3.1 - 4.6 - 7.3	48	47	41	33	30	25		
			300	0.099	0.132	13 - 19 - 27	31	142	24.6	32.8	3.8 - 5.7 - 8.2	49	51	45	37	34	29		
			360	0.143	0.190	15 - 21 - 30	34	170	35.5	47.2	4.6 - 6.3 - 9.0	50	54	49	40	38	32		
			480	0.253	0.337	20 - 24 - 34	39	227	63.1	83.9	6.0 - 7.3 - 10.4	52	59	54	45	43	37		
12" Oval Inlet		5'	140	0.049	0.051	5 - 10 - 18	15	66	12.1	12.8	1.5 - 3.0 - 5.6	45	35	28	20	16	12		
			280	0.195	0.206	13 - 18 - 26	27	132	48.6	51.2	4.0 - 5.6 - 7.9	49	47	41	32	29	24		
			350	0.305	0.321	16 - 21 - 29	31	165	75.9	80.0	5.0 - 6.3 - 8.8	51	51	46	36	33	28		
			420	0.439	0.463	18 - 23 - 32	34	198	109.3	115.2	5.6 - 6.9 - 9.7	52	54	49	39	37	31		
5'		4'	560	0.780	0.823	21 - 26 - 37	39	264	194.3	204.8	6.5 - 7.9 - 11.2	53	58	54	45	42	36		
			170	0.037	0.041	5 - 11 - 20	16	80	9.2	10.2	1.6 - 3.2 - 6.2	46	37	30	21	18	14		
			330	0.140	0.155	14 - 20 - 28	28	156	34.8	38.5	4.2 - 6.1 - 8.6	49	48	42	33	30	25		
			410	0.216	0.239	17 - 22 - 31	32	193	53.7	59.4	5.2 - 6.8 - 9.6	50	51	46	37	35	29		
5'	4'	490	0.308	0.341	20 - 24 - 34	35	231	76.8	84.8	6.0 - 7.4 - 10.5	51	54	50	41	38	32			
		650	0.542	0.599	23 - 28 - 40	40	307	135.1	149.3	7.0 - 8.5 - 12.1	53	59	55	46	43	37			

NOTES: Throw values are given for terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s). Throw values are given for isothermal conditions. Airflow is given for the length of the unit. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re10⁻¹² Watts. Dash in space denotes a NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See selection software for performance data not shown, including octave band data.

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PTBSS, PTBSSFB Performance Data: Horizontal Throw

IP/METRIC DATA: PTBSS, PTBSSFB, 1 1/2" SLOT WIDTH, 2-SLOT (NO DAMPER)

	Linear Length	IP Data					NC	Metric Data					Octave Band, dB						
		Air Flow	Pressure		1-Way Throw	Air Flow		Pressure		1-Way Throw	2	3	4	5	6	7			
			P _s	P _t				P _s	P _t								m		
		CFM	"WG	"WG	ft	L/s		Pa	Pa	m									
1 1/2" Slot Width	2'	75	0.011	0.021	1 - 3 - 11	15	35	2.7	5.2	0.4 - 1.0 - 3.2	43	37	29	22	18	14			
		155	0.047	0.090	6 - 11 - 19	28	73	11.7	22.4	1.8 - 3.3 - 5.9	47	49	42	35	32	27			
		195	0.074	0.142	9 - 14 - 22	32	92	18.5	35.4	2.8 - 4.2 - 6.6	49	52	47	39	37	31			
		235	0.108	0.207	11 - 16 - 24	35	111	26.9	51.5	3.3 - 5.0 - 7.2	50	56	50	43	40	34			
		315	0.194	0.371	15 - 20 - 28	41	149	48.4	92.5	4.5 - 5.9 - 8.4	51	60	56	48	46	39			
	6" Oval Inlet	4'	100	0.007	0.025	1 - 2 - 8	14	47	1.7	6.1	0.3 - 0.6 - 2.4	42	36	27	22	19	14		
			200	0.027	0.098	4 - 8 - 20	26	94	6.7	24.5	1.1 - 2.4 - 6.0	46	48	40	34	32	26		
			250	0.042	0.153	6 - 12 - 25	30	118	10.4	38.2	1.7 - 3.8 - 7.5	47	51	45	39	36	30		
			300	0.060	0.221	8 - 15 - 27	34	142	15.0	55.0	2.4 - 4.5 - 8.2	48	54	48	42	40	33		
		400	0.107	0.393	13 - 20 - 31	39	189	26.6	97.8	4.0 - 6.0 - 9.5	50	59	53	47	45	38			
	5'	120	0.007	0.033	1 - 2 - 8	15	57	1.7	8.1	0.3 - 0.6 - 2.5	42	37	29	24	20	16			
		250	0.029	0.141	4 - 9 - 22	28	118	7.3	35.1	1.2 - 2.7 - 6.7	46	50	42	37	34	28			
		315	0.047	0.224	6 - 14 - 28	32	149	11.6	55.8	1.9 - 4.2 - 8.4	47	54	47	41	39	32			
		380	0.068	0.326	9 - 17 - 30	36	179	16.9	81.1	2.8 - 5.1 - 9.2	48	57	50	44	42	35			
	510	0.122	0.587	15 - 23 - 35	41	241	30.4	146.1	4.6 - 6.9 - 10.7	50	62	56	50	48	40				
8" Oval Inlet	2'	90	0.014	0.020	2 - 5 - 13	14	42	3.5	4.9	0.6 - 1.4 - 3.8	44	35	28	20	16	13			
		190	0.062	0.087	9 - 13 - 21	27	90	15.5	21.7	2.7 - 4.1 - 6.5	48	48	42	34	31	25			
		240	0.100	0.139	11 - 17 - 24	31	113	24.8	34.7	3.4 - 5.1 - 7.3	49	52	46	38	35	30			
		290	0.145	0.203	14 - 19 - 26	35	137	36.2	50.6	4.1 - 5.7 - 8.1	50	55	50	41	39	33			
		390	0.263	0.368	18 - 22 - 31	40	184	65.4	91.5	5.4 - 6.6 - 9.3	52	60	55	47	45	38			
	4'	120	0.008	0.018	1 - 3 - 11	13	57	1.9	4.4	0.4 - 0.9 - 3.5	42	35	26	20	17	12			
		260	0.036	0.083	6 - 13 - 25	27	123	9.0	20.6	1.8 - 3.9 - 7.6	47	48	41	34	31	26			
		330	0.058	0.133	10 - 16 - 28	31	156	14.5	33.2	2.9 - 5.0 - 8.6	48	52	45	39	36	30			
		400	0.086	0.196	13 - 20 - 31	34	189	21.3	48.8	4.0 - 6.0 - 9.5	49	55	49	42	40	33			
		540	0.156	0.357	18 - 26 - 36	40	255	38.9	89.0	5.4 - 7.8 - 11.0	51	60	55	47	45	38			
	5'	140	0.007	0.021	1 - 3 - 11	14	66	1.9	5.2	0.4 - 0.8 - 3.4	42	36	27	21	18	13			
		300	0.034	0.096	6 - 13 - 27	27	142	8.5	24.0	1.7 - 3.9 - 8.1	47	48	42	35	32	27			
		380	0.055	0.154	9 - 17 - 30	31	179	13.7	38.5	2.8 - 5.1 - 9.2	48	52	46	39	37	31			
		460	0.080	0.226	13 - 20 - 33	35	217	20.0	56.4	4.1 - 6.2 - 10.1	49	56	50	43	41	34			
		620	0.146	0.411	18 - 27 - 39	40	293	36.4	102.4	5.6 - 8.3 - 11.8	51	60	55	48	46	39			
10" Oval Inlet	2'	90	0.014	0.017	2 - 5 - 13	11	42	3.6	4.3	0.6 - 1.4 - 3.8	44	32	25	17	13	-			
		210	0.078	0.094	10 - 15 - 23	26	99	19.4	23.4	3.0 - 4.5 - 6.9	48	47	41	32	29	24			
		270	0.129	0.155	13 - 18 - 26	31	127	32.0	38.6	3.8 - 5.5 - 7.8	50	51	45	37	34	28			
		330	0.192	0.232	15 - 20 - 28	34	156	47.8	57.7	4.7 - 6.1 - 8.6	51	54	49	40	38	32			
		450	0.357	0.431	19 - 23 - 33	40	212	89.0	107.2	5.8 - 7.1 - 10.0	53	59	55	46	44	37			
	4'	120	0.007	0.012	1 - 3 - 11	-	57	1.7	3.0	0.4 - 0.9 - 3.5	42	32	24	17	13	-			
		200	0.019	0.033	4 - 8 - 20	19	94	4.7	8.3	1.1 - 2.4 - 6.0	45	40	33	26	23	18			
		360	0.061	0.108	11 - 18 - 30	30	170	15.2	26.9	3.5 - 5.4 - 9.0	48	50	44	37	34	28			
		440	0.091	0.161	15 - 22 - 33	33	208	22.7	40.2	4.4 - 6.6 - 9.9	49	54	48	40	38	32			
		600	0.170	0.300	20 - 27 - 38	39	283	42.2	74.7	6.0 - 8.2 - 11.6	51	59	54	46	44	37			
	5'	140	0.006	0.014	1 - 3 - 11	-	66	1.6	3.4	0.4 - 0.8 - 3.4	42	33	24	18	14	-			
		320	0.034	0.071	6 - 14 - 28	26	151	8.4	17.6	2.0 - 4.3 - 8.5	47	47	40	33	30	25			
		410	0.055	0.116	11 - 18 - 31	30	193	13.8	28.9	3.2 - 5.5 - 9.6	48	51	44	37	35	29			
		500	0.082	0.173	15 - 22 - 35	34	236	20.5	43.0	4.5 - 6.7 - 10.6	49	54	48	41	39	32			
		680	0.152	0.320	20 - 29 - 41	39	321	37.8	79.6	6.1 - 8.7 - 12.3	51	59	54	47	45	38			
12" Oval Inlet	4'	150	0.010	0.013	2 - 4 - 15	-	71	2.4	3.2	0.6 - 1.4 - 4.5	43	31	23	16	12	-			
		370	0.059	0.077	12 - 18 - 30	26	175	14.6	19.2	3.7 - 5.6 - 9.1	48	46	40	32	29	24			
		480	0.099	0.130	16 - 24 - 34	30	227	24.6	32.4	4.8 - 7.2 - 10.4	49	51	45	37	34	28			
		590	0.150	0.196	20 - 27 - 38	34	278	37.2	48.9	5.9 - 8.1 - 11.5	50	54	49	40	38	32			
		810	0.282	0.370	26 - 31 - 44	40	382	70.2	92.2	7.8 - 9.5 - 13.5	52	59	55	46	44	37			
	5'	175	0.009	0.013	2 - 4 - 16	-	83	2.1	3.2	0.6 - 1.3 - 4.7	43	32	24	17	13	-			
		425	0.051	0.075	11 - 19 - 32	26	201	12.6	18.7	3.5 - 5.7 - 9.7	48	47	41	33	30	25			
		550	0.085	0.126	16 - 24 - 36	31	260	21.1	31.3	4.9 - 7.4 - 11.1	49	51	45	37	35	29			
		675	0.128	0.189	20 - 29 - 40	34	319	31.8	47.1	6.1 - 8.7 - 12.3	50	55	49	41	39	33			
		925	0.240	0.355	27 - 33 - 47	40	437	59.7	88.4	8.3 - 10.2 - 14.4	52	60	55	47	45	38			

NOTE: See notes on page F1-60.