

**PTBT Performance Data: Horizontal Throw**

## IP/METRIC DATA: PTBT, 1-SLOT (NO DAMPER)

Linear Length	IP Data					NC	Metric Data				Octave Band, dB						
	Air Flow	Pressure		1-Way Throw	CFM		Air Flow	Pressure		1-Way Throw	2	3	4	5	6	7	
		P <sub>s</sub>	P <sub>t</sub>					L/s	P <sub>a</sub>								P <sub>a</sub>
6" Oval Inlet	2'	25	0.011	0.012	1 - 2 - 7	-	12	2.8	3.1	0.2 - 0.6 - 2.1	20	36	21	13	-	-	
		65	0.076	0.083	6 - 9 - 14	26	31	18.9	20.8	1.7 - 2.8 - 4.2	36	48	39	33	26	15	
		85	0.130	0.143	8 - 11 - 16	31	40	32.3	35.5	2.4 - 3.4 - 4.8	40	51	44	38	33	24	
		105	0.198	0.218	10 - 12 - 17	34	50	49.3	54.2	3.0 - 3.7 - 5.3	44	54	48	42	39	32	
		145	0.377	0.415	12 - 14 - 20	40	68	93.9	103.3	3.6 - 4.4 - 6.2	49	58	54	49	48	43	
	4'	30	0.004	0.006	0 - 1 - 4	-	14	1.1	1.5	0.1 - 0.3 - 1.1	16	33	13	-	-	-	
		100	0.048	0.066	5 - 10 - 17	24	47	12.0	16.4	1.4 - 3.0 - 5.2	36	47	36	30	22	-	
		135	0.088	0.120	8 - 14 - 20	30	64	21.9	30.0	2.6 - 4.1 - 6.0	41	51	42	36	31	20	
		170	0.139	0.191	11 - 16 - 22	33	80	34.7	47.5	3.4 - 4.8 - 6.7	45	54	47	41	37	28	
	5'	240	0.278	0.381	15 - 19 - 26	39	113	69.1	94.7	4.6 - 5.7 - 8.0	51	58	53	48	46	40	
		40	0.006	0.009	1 - 1 - 5	-	19	1.4	2.1	0.2 - 0.4 - 1.4	19	34	16	-	-	-	
		120	0.051	0.076	5 - 11 - 19	25	57	12.6	19.0	1.4 - 3.3 - 5.7	37	48	36	30	22	-	
160		0.090	0.136	8 - 14 - 21	30	76	22.4	33.8	2.6 - 4.4 - 6.5	42	51	42	36	30	19		
8" Oval Inlet	2'	200	0.141	0.212	12 - 17 - 24	33	94	35.1	52.9	3.6 - 5.2 - 7.3	45	54	46	41	36	27	
		280	0.276	0.416	16 - 20 - 28	39	132	68.7	103.6	5.0 - 6.1 - 8.6	51	58	53	47	46	39	
		40	0.045	0.046	2 - 5 - 11	16	19	11.2	11.5	0.6 - 1.4 - 3.3	25	40	28	21	-	-	
		80	0.181	0.185	8 - 11 - 15	28	38	45.0	46.1	2.3 - 3.3 - 4.6	36	49	41	35	29	20	
		100	0.282	0.289	9 - 12 - 17	32	47	70.3	72.0	2.9 - 3.6 - 5.2	40	51	46	40	35	28	
	4'	120	0.406	0.416	11 - 13 - 19	35	57	101.2	103.7	3.3 - 4.0 - 5.7	43	54	49	43	40	34	
		160	0.722	0.740	12 - 15 - 21	40	76	179.9	184.3	3.8 - 4.6 - 6.5	48	57	55	49	48	44	
		60	0.015	0.018	2 - 4 - 12	14	28	3.8	4.5	0.5 - 1.1 - 3.6	24	39	25	18	-	-	
		130	0.072	0.084	8 - 13 - 19	27	61	18.0	20.9	2.4 - 4.0 - 5.9	37	49	40	34	27	16	
		165	0.116	0.135	11 - 15 - 22	31	78	29.0	33.7	3.3 - 4.7 - 6.6	41	52	44	38	33	24	
	5'	200	0.171	0.199	13 - 17 - 24	34	94	42.6	49.5	4.1 - 5.2 - 7.3	44	54	48	42	39	31	
		270	0.312	0.362	16 - 20 - 28	39	127	77.7	90.2	4.9 - 6.0 - 8.5	49	58	54	48	47	42	
80		0.018	0.022	2 - 5 - 14	16	38	4.5	5.6	0.6 - 1.4 - 4.4	27	41	27	20	-	-		
160		0.072	0.089	8 - 14 - 21	28	76	17.9	22.3	2.6 - 4.4 - 6.5	39	49	40	34	28	17		
200		0.112	0.140	12 - 17 - 24	31	94	27.9	34.8	3.6 - 5.2 - 7.3	42	52	45	39	34	24		
10" Oval Inlet	4'	240	0.161	0.201	14 - 19 - 26	34	113	40.2	50.1	4.4 - 5.7 - 8.0	45	54	48	42	39	31	
		320	0.287	0.358	18 - 21 - 30	39	151	71.5	89.0	5.3 - 6.5 - 9.2	50	58	53	48	47	41	
		70	0.023	0.025	2 - 5 - 14	15	33	5.8	6.2	0.7 - 1.5 - 4.3	25	40	27	20	-	-	
		140	0.093	0.100	9 - 14 - 20	27	66	23.1	24.9	2.8 - 4.3 - 6.1	36	48	40	34	27	17	
		175	0.145	0.156	12 - 16 - 22	31	83	36.1	38.8	3.5 - 4.8 - 6.8	40	51	44	38	33	25	
	5'	210	0.209	0.225	14 - 17 - 25	34	99	51.9	55.9	4.3 - 5.3 - 7.5	43	53	48	42	38	31	
		280	0.371	0.399	16 - 20 - 28	39	132	92.3	99.4	5.0 - 6.1 - 8.6	48	57	53	48	46	41	
		90	0.022	0.025	3 - 6 - 16	17	42	5.6	6.3	0.8 - 1.8 - 4.9	27	41	28	21	-	-	
		170	0.080	0.091	10 - 15 - 22	27	80	19.9	22.5	2.9 - 4.6 - 6.7	37	49	40	34	28	17	
		210	0.122	0.138	13 - 17 - 25	31	99	30.4	34.4	3.8 - 5.3 - 7.5	41	51	44	38	33	25	
	5'	250	0.173	0.196	15 - 19 - 27	34	118	43.1	48.8	4.5 - 5.8 - 8.2	44	54	48	42	38	31	
		330	0.302	0.341	18 - 22 - 31	39	156	75.1	84.9	5.4 - 6.6 - 9.4	48	57	53	48	46	40	

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. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re10<sup>-12</sup> 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.

**PTBT Performance Data: Horizontal Throw**

IP/METRIC DATA: PTBT, 2-SLOT (NO DAMPER)

PLENUM SLOT DIFFUSERS

Linear Length	IP Data					NC	Metric Data					Octave Band, dB						
	Air Flow	Pressure		1-Way Throw	2-Way Throw		Air Flow	Pressure		1-Way Throw	2-Way Throw	2	3	4	5	6	7	
		Ps	Pt					Ps	Pt									L/s
	CFM	"WG	"WG	ft	ft		L/s	Pa	Pa	m	m							
6" Oval Inlet	2'	40	0.008	0.011	1 - 2 - 8	0 - 1 - 4	-	19	1.9	2.6	0.3 - 0.7 - 2.5	0.1 - 0.3 - 1.3	21	36	19	12	-	-
		120	0.069	0.095	8 - 12 - 17	4 - 7 - 9	28	57	17.3	23.7	2.5 - 3.7 - 5.2	1.3 - 2.0 - 2.8	39	50	40	34	27	16
		160	0.123	0.169	11 - 14 - 20	6 - 8 - 11	32	76	30.7	42.1	3.4 - 4.2 - 6.0	1.8 - 2.3 - 3.3	44	53	45	40	35	26
		200	0.193	0.264	13 - 16 - 22	7 - 8 - 12	36	94	48.0	65.8	3.9 - 4.7 - 6.7	2.1 - 2.6 - 3.6	48	56	50	44	41	33
		280	0.378	0.518	15 - 18 - 26	8 - 10 - 14	42	132	94.1	129.0	4.6 - 5.6 - 7.9	2.5 - 3.1 - 4.3	53	60	56	51	51	45
	4'	40	0.003	0.006	0 - 1 - 3	0 - 0 - 2	-	19	0.8	1.5	0.1 - 0.2 - 1.0	0.1 - 0.1 - 0.5	14	30	-	-	-	-
		180	0.066	0.124	7 - 13 - 21	3 - 7 - 11	25	85	16.4	30.8	2.2 - 4.0 - 6.3	1.1 - 2.2 - 3.5	39	49	37	31	23	-
		250	0.127	0.239	12 - 17 - 25	7 - 9 - 13	31	118	31.7	59.5	3.7 - 5.3 - 7.5	2.0 - 2.9 - 4.1	45	53	43	38	32	21
		320	0.208	0.391	16 - 20 - 28	8 - 11 - 15	35	151	51.9	97.5	4.8 - 6.0 - 8.5	2.6 - 3.3 - 4.6	49	56	48	42	39	29
		460	0.431	0.809	19 - 24 - 33	11 - 13 - 18	41	217	107.3	201.4	5.9 - 7.2 - 10.1	3.2 - 3.9 - 5.5	55	60	55	50	49	42
	5'	50	0.004	0.009	0 - 1 - 4	0 - 0 - 2	-	24	1.0	2.1	0.1 - 0.3 - 1.1	0.1 - 0.1 - 0.5	16	31	-	-	-	-
		210	0.072	0.151	7 - 14 - 23	3 - 7 - 12	25	99	18.0	37.6	2.2 - 4.2 - 6.9	1.0 - 2.3 - 3.7	39	49	36	30	22	-
		290	0.138	0.288	13 - 19 - 26	6 - 10 - 14	31	137	34.3	71.8	3.9 - 5.7 - 8.1	2.0 - 3.1 - 4.4	45	53	42	37	31	19
		370	0.224	0.469	16 - 21 - 30	9 - 12 - 16	35	175	55.9	116.8	4.9 - 6.4 - 9.1	2.7 - 3.5 - 5.0	49	56	47	42	38	28
		530	0.461	0.962	21 - 25 - 36	11 - 14 - 20	41	250	114.7	239.7	6.3 - 7.7 - 10.9	3.4 - 4.2 - 5.9	55	60	54	49	48	40
8" Oval Inlet	2'	30	0.004	0.004	1 - 1 - 5	0 - 1 - 2	-	14	1.0	1.1	0.2 - 0.4 - 1.6	0.1 - 0.2 - 0.7	13	31	12	-	-	-
		110	0.052	0.060	8 - 11 - 16	4 - 6 - 9	24	52	12.9	15.0	2.3 - 3.5 - 5.0	1.1 - 1.9 - 2.7	35	47	37	30	22	-
		150	0.096	0.112	10 - 13 - 19	6 - 7 - 10	29	71	24.0	27.8	3.2 - 4.1 - 5.8	1.7 - 2.2 - 3.2	40	50	43	37	31	21
		190	0.154	0.179	12 - 15 - 21	7 - 8 - 12	33	90	38.5	44.7	3.8 - 4.6 - 6.5	2.1 - 2.5 - 3.6	44	53	47	41	37	29
		270	0.312	0.362	15 - 18 - 26	8 - 10 - 14	39	127	77.7	90.2	4.5 - 5.5 - 7.8	2.4 - 3.0 - 4.2	49	58	54	48	47	42
	4'	60	0.005	0.007	1 - 2 - 7	0 - 1 - 3	-	28	1.2	1.8	0.2 - 0.6 - 2.2	0.1 - 0.3 - 1.1	18	33	14	-	-	-
		200	0.055	0.082	9 - 15 - 22	4 - 8 - 12	25	94	13.6	20.5	2.8 - 4.5 - 6.7	1.3 - 2.4 - 3.6	38	48	37	31	23	-
		270	0.100	0.150	13 - 18 - 26	7 - 10 - 14	30	127	24.9	37.4	4.0 - 5.5 - 7.8	2.2 - 3.0 - 4.2	43	52	43	37	32	21
		340	0.158	0.238	17 - 20 - 29	9 - 11 - 16	34	160	39.4	59.3	5.0 - 6.2 - 8.7	2.7 - 3.4 - 4.8	46	55	47	42	38	29
		480	0.316	0.474	20 - 24 - 34	11 - 13 - 19	40	227	78.6	118.1	6.0 - 7.3 - 10.4	3.3 - 4.0 - 5.7	52	59	54	49	48	41
	5'	70	0.005	0.008	1 - 2 - 7	0 - 1 - 3	-	33	1.3	2.1	0.2 - 0.5 - 2.2	0.1 - 0.3 - 1.0	18	33	14	-	-	-
		230	0.055	0.091	9 - 15 - 24	4 - 8 - 13	25	109	13.7	22.7	2.6 - 4.6 - 7.2	1.2 - 2.5 - 3.9	38	48	36	30	22	-
		310	0.100	0.166	14 - 19 - 27	7 - 11 - 15	30	146	24.8	41.3	4.1 - 5.9 - 8.3	2.2 - 3.2 - 4.5	43	52	42	36	31	19
		390	0.158	0.263	17 - 22 - 31	9 - 12 - 17	34	184	39.3	65.4	5.2 - 6.6 - 9.3	2.8 - 3.6 - 5.1	47	54	46	41	37	27
		550	0.314	0.522	21 - 26 - 36	11 - 14 - 20	39	260	78.1	130.0	6.4 - 7.8 - 11.1	3.5 - 4.3 - 6.0	52	59	53	48	46	39
10" Oval Inlet	2'	40	0.008	0.008	1 - 2 - 8	0 - 1 - 4	-	19	1.9	2.0	0.3 - 0.7 - 2.5	0.1 - 0.3 - 1.3	16	33	16	-	-	-
		120	0.068	0.073	8 - 12 - 17	4 - 7 - 9	24	57	17.0	18.3	2.5 - 3.7 - 5.2	1.3 - 2.0 - 2.8	34	47	37	31	23	12
		160	0.121	0.130	11 - 14 - 20	6 - 8 - 11	29	76	30.1	32.5	3.4 - 4.2 - 6.0	1.8 - 2.3 - 3.3	39	50	43	37	31	22
		200	0.189	0.204	13 - 16 - 22	7 - 8 - 12	33	94	47.1	50.7	3.9 - 4.7 - 6.7	2.1 - 2.6 - 3.6	42	53	47	41	37	29
		280	0.371	0.399	15 - 18 - 26	8 - 10 - 14	39	132	92.3	99.4	4.6 - 5.6 - 7.9	2.5 - 3.1 - 4.3	48	57	53	48	46	41
	4'	80	0.007	0.010	1 - 3 - 12	1 - 2 - 6	-	38	1.8	2.4	0.4 - 1.0 - 3.6	0.2 - 0.5 - 1.9	20	36	19	11	-	-
		220	0.056	0.073	11 - 16 - 23	5 - 9 - 13	26	104	13.9	18.2	3.3 - 4.9 - 7.0	1.6 - 2.6 - 3.8	37	48	38	32	24	12
		290	0.097	0.127	14 - 19 - 26	8 - 10 - 14	30	137	24.1	31.7	4.3 - 5.7 - 8.1	2.3 - 3.1 - 4.4	42	51	43	37	32	22
		360	0.149	0.196	17 - 21 - 30	9 - 11 - 16	34	170	37.1	48.8	5.2 - 6.3 - 9.0	2.8 - 3.5 - 4.9	45	54	47	42	38	29
		500	0.287	0.378	20 - 25 - 35	11 - 13 - 19	40	236	71.5	94.1	6.1 - 7.5 - 10.6	3.3 - 4.1 - 5.8	51	58	54	48	47	41
	5'	90	0.007	0.010	1 - 3 - 12	1 - 1 - 6	-	42	1.7	2.4	0.4 - 0.9 - 3.6	0.2 - 0.4 - 1.7	20	35	17	-	-	-
		250	0.051	0.074	10 - 16 - 25	5 - 9 - 13	25	118	12.8	18.5	3.1 - 5.0 - 7.5	1.5 - 2.7 - 4.1	37	48	37	31	23	-
		330	0.090	0.129	14 - 20 - 28	8 - 11 - 15	30	156	22.3	32.2	4.4 - 6.1 - 8.6	2.4 - 3.3 - 4.7	42	51	42	36	31	20
		410	0.138	0.199	18 - 22 - 31	10 - 12 - 17	33	193	34.5	49.6	5.5 - 6.8 - 9.6	2.9 - 3.7 - 5.2	45	54	46	41	37	27
		570	0.267	0.385	21 - 26 - 37	12 - 14 - 20	39	269	66.6	95.9	6.5 - 8.0 - 11.3	3.6 - 4.4 - 6.2	51	58	53	47	46	39

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. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re10<sup>-12</sup> 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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**PTBT Performance Data: Horizontal Throw**
**IP/METRIC DATA: PTBT, 3-SLOT (NO DAMPER)**

Length	IP Data							NC	Metric Data							Octave Band, dB						
	Air Flow	Pressure		1-Way Throw		2-Way			Air Flow	Pressure		1-Way Throw		2-Way		2	3	4	5	6	7	
		Ps	Pt	ft	ft	ft	ft			L/s	Pa	Pa	m	m	m							
	CFM	"WG	"WG	ft	ft	ft	ft		L/s	Pa	Pa	m	m	m	2	3	4	5	6	7		
6" Oval Inlet	2'	50	0.007	0.011	1-3-9	1-2-6	0-1-2	-	24	1.7	2.9	0.4-0.9-2.7	0.2-0.5-1.8	0.1-0.2-0.7	21	35	17	-	-	-		
	170	0.081	0.133	10-13-18	7-9-13	3-6-9	28	80	20.2	33.0	3.0-4.0-5.6	2.0-2.7-3.8	0.8-1.7-2.8	41	50	40	34	28	16			
	230	0.148	0.243	12-15-21	8-10-15	5-7-11	33	109	36.9	60.4	3.8-4.6-6.5	2.6-3.2-4.5	1.5-2.3-3.2	46	54	46	40	36	26			
	290	0.236	0.386	14-17-24	10-12-16	6-8-12	37	137	58.6	96.1	4.2-5.2-7.3	2.9-3.5-5.0	1.9-2.5-3.6	50	57	50	45	43	34			
	410	0.471	0.771	17-20-29	11-14-20	8-10-14	43	193	117.2	192.0	5.0-6.2-8.7	3.4-4.2-6.0	2.5-3.0-4.3	56	61	57	52	52	46			
4'	70	0.007	0.016	1-2-8	0-1-4	0-0-1	-	33	1.7	3.9	0.3-0.6-2.4	0.1-0.3-1.3	0.1-0.1-0.5	19	34	13	-	-	-			
	80	0.110	0.250	12-17-24	8-11-16	3-6-12	28	132	27.3	62.2	3.5-5.1-7.2	2.3-3.5-4.9	0.8-1.8-3.5	42	51	39	33	26	12			
	385	0.207	0.472	16-20-28	11-13-19	5-9-14	33	182	51.6	117.6	4.9-6.0-8.4	3.3-4.1-5.8	1.5-2.7-4.1	48	54	45	40	35	24			
	490	0.336	0.765	18-22-31	12-15-21	8-11-15	37	231	83.6	190.4	5.5-6.7-9.5	3.8-4.6-6.5	2.3-3.3-4.7	52	57	50	45	42	32			
	700	0.685	1.561	22-26-37	15-18-26	11-13-18	43	330	170.6	388.6	6.6-8.0-11.4	4.5-5.5-7.8	3.2-4.0-5.6	58	62	56	52	52	44			
5'	80	0.008	0.019	1-2-7	0-1-4	0-0-1	-	38	1.9	4.7	0.2-0.6-2.2	0.1-0.3-1.2	0.0-0.1-0.4	19	33	12	-	-	-			
	320	0.120	0.303	12-18-25	7-12-17	2-6-12	27	151	29.9	75.5	3.6-5.4-7.7	2.2-3.7-5.3	0.8-1.7-3.8	42	50	38	32	25	-			
	440	0.227	0.573	16-21-30	11-14-20	5-9-15	32	208	56.6	142.8	5.0-6.4-9.0	3.4-4.4-6.2	1.4-2.8-4.4	48	54	44	39	34	22			
	560	0.368	0.929	19-24-33	13-16-23	8-12-16	36	264	91.7	231.2	5.9-7.2-10.2	4.0-4.9-7.0	2.3-3.5-5.0	52	57	49	44	41	30			
	800	0.752	1.895	23-28-40	16-19-27	11-14-20	42	378	187.2	471.9	7.0-8.6-12.2	4.8-5.9-8.3	3.4-4.2-6.0	58	61	55	51	51	42			
8" Oval Inlet	2'	55	0.006	0.008	2-3-10	1-2-7	0-1-3	-	26	1.6	2.1	0.5-1.0-2.9	0.3-0.6-2.0	0.1-0.2-0.8	19	35	17	-	-	-		
		175	0.063	0.085	10-13-19	7-9-13	3-6-9	27	83	15.8	21.1	3.1-4.0-5.7	2.1-2.8-3.9	0.9-1.7-2.8	38	49	39	33	26	14		
		235	0.114	0.153	13-15-22	9-10-15	5-8-11	32	111	28.5	38.0	3.8-4.7-6.6	2.6-3.2-4.5	1.6-2.3-3.2	43	53	45	39	34	25		
		295	0.180	0.240	14-17-24	10-12-17	6-8-12	36	139	44.9	59.8	4.3-5.2-7.4	2.9-3.6-5.1	2.0-2.6-3.6	47	55	49	44	41	33		
	415	0.357	0.476	17-20-29	11-14-20	8-10-14	41	196	88.9	118.4	5.1-6.2-8.8	3.5-4.2-6.0	2.5-3.0-4.3	53	59	56	51	50	44			
	4'	90	0.007	0.012	1-3-11	1-2-7	0-1-2	-	42	1.7	3.1	0.4-1.0-3.4	0.2-0.5-2.2	0.1-0.1-0.6	20	35	16	-	-	-		
		300	0.076	0.138	12-17-24	8-12-17	3-7-12	27	142	19.0	34.4	3.8-5.3-7.4	2.6-3.6-5.1	0.7-1.6-3.7	40	50	39	33	26	12		
		405	0.139	0.252	16-20-28	11-14-19	6-9-14	32	191	34.5	62.7	5.0-6.1-8.7	3.4-4.2-5.9	1.3-2.7-4.2	45	53	44	39	34	23		
		510	0.220	0.399	18-23-32	13-15-22	8-11-16	36	241	54.8	99.4	5.6-6.9-9.7	3.8-4.7-6.6	2.1-3.4-4.8	49	56	49	43	40	31		
	5'	720	0.438	0.796	22-27-38	15-18-26	11-13-19	42	340	109.2	198.2	6.7-8.2-11.5	4.6-5.6-7.9	3.2-4.0-5.7	55	60	55	50	50	43		
100		0.007	0.014	1-3-11	1-2-6	0-1-2	-	47	1.7	3.4	0.4-0.9-3.4	0.2-0.5-1.9	0.1-0.1-0.5	20	34	14	-	-	-			
340		0.078	0.158	13-18-26	8-13-18	3-6-13	26	160	19.4	39.3	3.8-5.6-7.9	2.5-3.8-5.4	0.7-1.5-3.9	40	49	38	32	24	-			
460		0.143	0.289	17-21-30	12-15-21	5-10-15	31	217	35.6	71.9	5.2-6.5-9.2	3.5-4.5-6.3	1.2-2.7-4.5	45	53	43	38	33	21			
10" Oval Inlet	580	0.227	0.459	20-24-34	13-16-23	8-12-17	35	274	56.6	114.3	6.0-7.3-10.4	4.1-5.0-7.1	1.9-3.4-5.1	49	56	48	42	39	29			
	820	0.454	0.918	23-29-40	16-20-28	11-14-20	41	387	113.1	228.5	7.1-8.7-12.3	4.9-6.0-8.4	3.2-4.3-6.0	55	60	54	49	49	41			
	60	0.007	0.008	2-4-11	1-2-7	0-1-3	-	28	1.7	2.0	0.6-1.2-3.2	0.3-0.7-2.2	0.1-0.2-0.9	18	35	18	-	-	-			
	180	0.062	0.073	11-13-19	7-9-13	3-6-9	26	85	15.4	18.3	3.2-4.1-5.8	2.2-2.8-3.9	0.9-1.8-2.8	37	48	39	32	25	14			
2'	240	0.110	0.131	13-15-22	9-11-15	5-8-11	31	113	27.3	32.5	3.8-4.7-6.7	2.6-3.2-4.6	1.6-2.3-3.3	41	52	44	38	33	24			
	300	0.171	0.204	14-17-24	10-12-17	7-9-12	35	142	42.7	50.8	4.3-5.3-7.4	2.9-3.6-5.1	2.0-2.6-3.7	45	54	48	43	39	32			
	420	0.336	0.400	17-20-29	11-14-20	8-10-14	40	198	83.6	99.5	5.1-6.2-8.8	3.5-4.3-6.0	2.5-3.1-4.3	51	58	55	49	49	43			
	100	0.006	0.010	2-4-12	1-2-8	0-1-3	-	47	1.6	2.5	0.5-1.2-3.8	0.3-0.7-2.6	0.1-0.2-0.7	20	35	17	-	-	-			
	310	0.062	0.097	13-18-25	9-12-17	3-7-12	26	146	15.5	24.1	3.9-5.4-7.6	2.6-3.7-5.2	0.8-1.7-3.7	39	49	38	32	25	12			
	415	0.111	0.174	17-20-29	11-14-20	6-10-14	31	196	27.7	43.3	5.1-6.2-8.8	3.5-4.2-6.0	1.4-2.7-4.3	44	52	44	38	33	22			
	520	0.175	0.273	19-23-32	13-16-22	8-11-16	35	245	43.5	67.9	5.7-6.9-9.8	3.9-4.7-6.7	2.1-3.4-4.8	47	55	48	43	39	30			
	730	0.344	0.537	22-27-38	15-18-26	11-13-19	41	345	85.7	133.8	6.7-8.2-11.6	4.6-5.6-7.9	3.2-4.0-5.7	53	59	54	49	49	42			
5'	110	0.006	0.010	2-3-12	1-2-8	0-1-3	-	52	1.5	2.6	0.5-1.1-3.7	0.3-0.6-2.3	0.1-0.2-0.6	19	34	15	-	-	-			
	350	0.061	0.105	13-19-26	9-13-18	3-7-13	25	165	15.1	26.2	4.0-5.7-8.0	2.6-3.9-5.5	0.7-1.6-4.0	39	48	37	31	23	-			
	470	0.109	0.189	17-22-31	12-15-21	5-10-15	30	222	27.2	47.2	5.3-6.6-9.3	3.6-4.5-6.4	1.3-2.8-4.6	43	52	43	37	31	20			
	590	0.172	0.299	20-24-34	14-17-23	8-12-17	34	278	42.9	74.4	6.0-7.4-10.4	4.1-5.1-7.1	2.0-3.5-5.1	47	55	47	41	38	28			
	830	0.341	0.591	24-29-41	16-20-28	11-14-20	40	392	84.9	147.1	7.2-8.8-12.4	4.9-6.0-8.5	3.3-4.3-6.1	53	59	53	48	47	40			

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. NC values are based on octave band 2-7 sound power levels minus a room absorption of 10dB, re10<sup>-12</sup> 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.

**PTBT Performance Data: Horizontal Throw**

IP/METRIC DATA: PTBT, 4-SLOT (NO DAMPER)

PLENUM SLOT DIFFUSERS

	Linear Length	IP Data					NC	Metric Data					Octave Band, dB						
		Air Flow	Pressure		1-Way Throw	2-Way Throw		Air Flow	Pressure		1-Way Throw	2-Way Throw	2	3	4	5	6	7	
			Ps	Pt					Ps	Pt									L/s
		CFM	"WG	"WG	ft	ft		L/s	Pa	Pa	m	m							
6" Oval Inlet	2'	60	0.007	0.014	2 - 4 - 10	0 - 1 - 4	-	28	1.8	3.4	0.5 - 1.1 - 2.9	0.2 - 0.3 - 1.4	21	35	16	-	-	-	
		180	0.066	0.124	10 - 12 - 17	4 - 8 - 11	25	85	16.4	30.8	2.9 - 3.7 - 5.2	1.4 - 2.3 - 3.5	39	49	37	31	23	-	
		240	0.117	0.220	11 - 14 - 20	7 - 9 - 13	30	113	29.2	54.8	3.5 - 4.2 - 6.0	2.1 - 2.8 - 4.0	44	52	42	37	31	19	
		300	0.183	0.344	13 - 16 - 22	8 - 10 - 15	34	142	45.6	85.7	3.9 - 4.7 - 6.7	2.6 - 3.2 - 4.5	48	55	47	41	37	27	
		420	0.359	0.674	15 - 18 - 26	10 - 12 - 17	40	198	89.4	167.9	4.6 - 5.6 - 7.9	3.1 - 3.7 - 5.3	53	59	53	48	47	39	
	4'	80	0.007	0.019	1 - 2 - 9	0 - 1 - 3	-	38	1.8	4.6	0.3 - 0.7 - 2.7	0.1 - 0.2 - 0.9	19	33	11	-	-	-	
		290	0.094	0.245	11 - 15 - 22	4 - 9 - 14	24	137	23.5	60.9	3.4 - 4.7 - 6.6	1.2 - 2.6 - 4.4	40	49	35	29	21	-	
		395	0.175	0.454	15 - 18 - 25	8 - 12 - 17	30	186	43.5	113.0	4.4 - 5.4 - 7.7	2.3 - 3.6 - 5.1	45	52	41	36	29	16	
		500	0.280	0.727	16 - 20 - 28	10 - 13 - 19	34	236	69.8	181.0	5.0 - 6.1 - 8.7	3.0 - 4.1 - 5.8	49	55	46	40	36	24	
		710	0.565	1.466	20 - 24 - 34	13 - 16 - 23	39	335	140.7	365.0	6.0 - 7.3 - 10.3	4.0 - 4.9 - 6.9	55	59	52	47	46	36	
8" Oval Inlet	2'	60	0.005	0.007	2 - 4 - 10	0 - 1 - 4	-	28	1.2	1.8	0.5 - 1.1 - 2.9	0.2 - 0.3 - 1.4	18	33	14	-	-	-	
		180	0.044	0.067	10 - 12 - 17	4 - 8 - 11	24	85	11.0	16.6	2.9 - 3.7 - 5.2	1.4 - 2.3 - 3.5	36	47	35	29	20	-	
		240	0.079	0.119	11 - 14 - 20	7 - 9 - 13	28	113	19.6	29.5	3.5 - 4.2 - 6.0	2.1 - 2.8 - 4.0	41	50	41	35	28	17	
		300	0.123	0.185	13 - 16 - 22	8 - 10 - 15	32	142	30.7	46.1	3.9 - 4.7 - 6.7	2.6 - 3.2 - 4.5	44	53	45	39	35	25	
		420	0.242	0.363	15 - 18 - 26	10 - 12 - 17	38	198	60.2	90.4	4.6 - 5.6 - 7.9	3.1 - 3.7 - 5.3	50	57	51	46	44	36	
	4'	115	0.008	0.018	2 - 5 - 13	1 - 1 - 6	-	54	2.1	4.4	0.6 - 1.4 - 4.0	0.2 - 0.4 - 1.8	22	36	16	-	-	-	
		325	0.067	0.140	12 - 16 - 23	5 - 10 - 15	25	153	16.7	34.9	3.8 - 4.9 - 7.0	1.6 - 3.0 - 4.7	39	48	36	30	21	-	
		430	0.118	0.245	15 - 19 - 26	9 - 12 - 18	29	203	29.3	61.0	4.6 - 5.7 - 8.0	2.6 - 3.8 - 5.3	43	52	41	35	29	16	
		535	0.182	0.379	17 - 21 - 29	11 - 14 - 20	33	252	45.3	94.5	5.2 - 6.3 - 8.9	3.3 - 4.2 - 6.0	47	54	45	40	35	24	
		745	0.353	0.736	20 - 25 - 35	13 - 16 - 23	38	352	87.9	183.2	6.1 - 7.5 - 10.6	4.1 - 5.0 - 7.0	53	58	51	46	44	36	
	5'	125	0.008	0.019	2 - 4 - 13	1 - 1 - 5	-	59	2.0	4.7	0.5 - 1.2 - 3.9	0.2 - 0.4 - 1.5	21	35	14	-	-	-	
		365	0.070	0.162	12 - 17 - 24	5 - 10 - 16	24	172	17.4	40.3	3.8 - 5.2 - 7.4	1.4 - 3.0 - 4.9	39	48	34	28	20	-	
		485	0.123	0.286	16 - 20 - 28	8 - 13 - 19	28	229	30.7	71.1	4.9 - 6.0 - 8.5	2.5 - 4.0 - 5.7	43	51	40	34	28	14	
		605	0.192	0.444	18 - 22 - 31	11 - 15 - 21	32	286	47.8	110.6	5.5 - 6.7 - 9.5	3.3 - 4.5 - 6.3	47	54	44	39	34	22	
		845	0.374	0.867	21 - 26 - 37	14 - 17 - 25	38	399	93.2	215.8	6.5 - 8.0 - 11.2	4.3 - 5.3 - 7.5	53	58	50	45	43	33	
10" Oval Inlet	2'	120	0.017	0.022	6 - 10 - 14	2 - 4 - 9	15	57	4.1	5.4	1.9 - 2.9 - 4.2	0.6 - 1.4 - 2.8	27	41	26	20	-	-	
		240	0.066	0.087	11 - 14 - 20	7 - 9 - 13	27	113	16.5	21.7	3.5 - 4.2 - 6.0	2.1 - 2.8 - 4.0	38	49	40	34	27	15	
		300	0.103	0.136	13 - 16 - 22	8 - 10 - 15	31	142	25.8	33.9	3.9 - 4.7 - 6.7	2.6 - 3.2 - 4.5	42	52	44	38	33	23	
		360	0.149	0.196	14 - 17 - 24	9 - 11 - 16	34	170	37.1	48.8	4.2 - 5.2 - 7.3	2.8 - 3.5 - 4.9	45	54	47	42	38	29	
		480	0.265	0.348	16 - 20 - 28	11 - 13 - 19	39	227	65.9	86.7	4.9 - 6.0 - 8.5	3.3 - 4.0 - 5.7	50	58	53	47	46	39	
	4'	160	0.012	0.021	4 - 9 - 16	1 - 3 - 10	11	76	2.9	5.3	1.2 - 2.7 - 4.9	0.4 - 0.9 - 2.9	25	38	21	14	-	-	
		370	0.063	0.113	14 - 17 - 24	7 - 11 - 16	25	175	15.7	28.1	4.3 - 5.3 - 7.4	2.0 - 3.4 - 5.0	39	49	37	31	23	-	
		475	0.104	0.186	16 - 20 - 28	10 - 13 - 18	30	224	25.9	46.3	4.9 - 6.0 - 8.4	2.9 - 4.0 - 5.6	43	52	42	36	30	18	
		580	0.155	0.277	18 - 22 - 31	12 - 14 - 20	33	274	38.6	69.0	5.4 - 6.6 - 9.3	3.5 - 4.4 - 6.2	46	54	46	40	36	25	
		790	0.288	0.514	21 - 25 - 36	14 - 17 - 24	38	373	71.7	128.0	6.3 - 7.7 - 10.9	4.2 - 5.1 - 7.3	51	58	51	46	44	36	
	5'	200	0.015	0.029	4 - 10 - 18	1 - 3 - 11	12	94	3.7	7.3	1.4 - 3.0 - 5.5	0.4 - 1.0 - 3.3	26	39	22	15	-	-	
		440	0.071	0.141	15 - 19 - 27	7 - 12 - 18	25	208	17.7	35.2	4.5 - 5.7 - 8.1	2.1 - 3.6 - 5.4	39	49	37	31	23	-	
		560	0.115	0.229	17 - 21 - 30	10 - 14 - 20	30	264	28.7	57.0	5.3 - 6.5 - 9.2	3.0 - 4.3 - 6.1	44	52	41	36	30	17	
		680	0.170	0.337	19 - 23 - 33	12 - 16 - 22	33	321	42.3	84.0	5.8 - 7.1 - 10.1	3.7 - 4.8 - 6.7	47	54	45	40	35	24	
		920	0.311	0.618	22 - 27 - 39	15 - 18 - 26	38	434	77.3	153.8	6.8 - 8.3 - 11.7	4.5 - 5.5 - 7.8	52	58	51	46	44	35	

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. NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re10<sup>-12</sup> 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.

PTBT

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