



## PTBA Performance Data: Horizontal Throw

IP/METRIC DATA: PTBA, 3/4" SLOT WIDTH, 1-SLOT, 1-WAY (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	
	CFM	"WG	"WG	ft		L/s	Pa	Pa	m							
3/4" Slot Width	2'	20	0.011	0.011	1 - 3 - 10	-	9	2.7	2.9	0.4 - 1.0 - 3.1	33	24	19	-	-	-
		50	0.067	0.072	8 - 13 - 24	21	24	16.7	17.8	2.5 - 3.8 - 7.3	46	44	43	31	28	18
		65	0.113	0.121	11 - 16 - 27	27	31	28.2	30.1	3.3 - 5.0 - 8.3	50	50	50	38	35	28
		80	0.172	0.183	13 - 20 - 30	32	38	42.8	45.6	4.1 - 6.1 - 9.2	53	55	55	44	42	37
		110	0.325	0.346	18 - 25 - 36	40	52	80.9	86.3	5.6 - 7.7 - 10.8	57	62	64	52	51	51
	4'	40	0.011	0.014	2 - 5 - 9	-	19	2.8	3.5	0.6 - 1.4 - 2.9	33	24	-	-	-	-
		85	0.051	0.064	7 - 10 - 14	23	40	12.8	16.0	2.0 - 3.1 - 4.4	44	41	29	27	23	11
		108	0.082	0.103	8 - 11 - 16	29	51	20.5	25.6	2.6 - 3.5 - 4.9	47	46	35	33	30	21
		130	0.120	0.150	10 - 13 - 18	33	61	29.9	37.5	3.1 - 3.8 - 5.4	50	50	40	38	35	28
		175	0.218	0.273	12 - 15 - 21	40	83	54.2	67.9	3.6 - 4.4 - 6.3	54	57	48	46	44	41
6" Oval Inlet	5'	50	0.013	0.018	2 - 5 - 11	-	24	3.3	4.4	0.7 - 1.6 - 3.2	33	24	-	-	-	-
		100	0.053	0.070	7 - 11 - 16	24	47	13.1	17.5	2.1 - 3.2 - 4.7	43	39	24	26	21	-
		125	0.082	0.110	9 - 12 - 17	29	59	20.5	27.4	2.7 - 3.7 - 5.3	46	44	30	31	28	18
		150	0.118	0.159	11 - 13 - 19	33	71	29.5	39.5	3.2 - 4.1 - 5.8	49	48	35	36	33	25
		200	0.210	0.282	13 - 16 - 22	40	94	52.4	70.2	3.9 - 4.7 - 6.7	53	55	43	44	42	37
	2'	30	0.041	0.041	3 - 7 - 15	-	14	10.1	10.3	1.0 - 2.2 - 4.6	39	33	36	18	12	-
		60	0.163	0.165	10 - 15 - 26	21	28	40.6	41.2	3.1 - 4.6 - 8.0	49	48	54	36	33	25
		75	0.255	0.259	13 - 19 - 29	27	35	63.4	64.4	3.8 - 5.7 - 8.9	52	53	60	42	40	34
		90	0.367	0.372	15 - 23 - 32	31	42	91.3	92.7	4.6 - 6.9 - 9.8	54	57	65	47	45	42
		120	0.652	0.662	20 - 26 - 37	38	57	162.3	164.8	6.1 - 8.0 - 11.3	58	64	73	55	54	54
3/4" Slot Width	4'	70	0.031	0.034	6 - 8 - 13	15	33	7.7	8.5	1.7 - 2.5 - 4.0	41	36	31	22	17	-
		110	0.076	0.085	9 - 12 - 16	25	52	19.0	21.1	2.6 - 3.5 - 5.0	47	46	42	34	30	21
		130	0.107	0.118	10 - 13 - 18	29	61	26.6	29.5	3.1 - 3.8 - 5.4	50	50	47	38	35	28
		150	0.142	0.158	11 - 13 - 19	33	71	35.4	39.2	3.3 - 4.1 - 5.8	52	53	51	42	40	34
		190	0.228	0.253	12 - 15 - 21	38	90	56.8	62.9	3.8 - 4.6 - 6.5	55	58	57	49	47	44
	5'	90	0.033	0.039	6 - 10 - 15	17	42	8.3	9.7	1.9 - 2.9 - 4.5	41	37	28	23	18	-
		140	0.081	0.094	10 - 13 - 18	28	66	20.1	23.5	3.0 - 4.0 - 5.6	48	47	40	34	31	22
		165	0.112	0.131	12 - 14 - 20	31	78	27.9	32.6	3.5 - 4.3 - 6.1	50	50	44	39	36	29
		190	0.149	0.174	12 - 15 - 21	35	90	37.0	43.2	3.8 - 4.6 - 6.5	52	53	48	43	40	35
		240	0.237	0.277	14 - 17 - 24	40	113	59.1	68.9	4.2 - 5.2 - 7.3	55	59	54	49	47	45
3/4" Slot Width	2'	40	0.160	0.161	6 - 10 - 20	-	19	39.9	40.1	1.7 - 3.1 - 6.1	43	39	48	26	21	-
		80	0.641	0.644	13 - 20 - 30	26	38	159.7	160.2	4.1 - 6.1 - 9.2	53	55	66	44	42	37
		100	1.002	1.005	17 - 24 - 34	31	47	249.5	250.4	5.1 - 7.3 - 10.3	56	60	72	50	48	47
		120	1.443	1.448	20 - 26 - 37	35	57	359.2	360.5	6.1 - 8.0 - 11.3	58	64	77	55	54	54
		160	2.565	2.574	25 - 30 - 43	42	76	638.6	640.9	7.5 - 9.2 - 13.1	62	70	85	62	63	66
	4'	80	0.046	0.048	6 - 9 - 14	15	38	11.4	12.0	1.9 - 2.9 - 4.2	43	39	39	26	21	-
		130	0.121	0.127	10 - 13 - 18	27	61	30.1	31.6	3.1 - 3.8 - 5.4	50	50	51	38	35	28
		155	0.172	0.180	11 - 14 - 19	31	73	42.8	44.9	3.4 - 4.2 - 5.9	52	54	56	43	41	36
		180	0.232	0.243	12 - 15 - 21	34	85	57.7	60.6	3.7 - 4.5 - 6.3	54	57	60	47	45	42
		230	0.378	0.397	14 - 17 - 24	40	109	94.2	99.0	4.1 - 5.1 - 7.2	58	63	66	54	53	52
10" Oval Inlet	5'	90	0.033	0.036	6 - 10 - 15	14	42	8.3	9.0	1.9 - 2.9 - 4.5	41	37	33	23	18	-
		150	0.092	0.101	11 - 13 - 19	26	71	23.0	25.1	3.2 - 4.1 - 5.8	49	48	46	36	33	25
		180	0.133	0.145	12 - 15 - 21	31	85	33.2	36.1	3.7 - 4.5 - 6.3	51	52	51	41	39	33
		210	0.181	0.197	13 - 16 - 23	34	99	45.1	49.1	4.0 - 4.8 - 6.9	53	56	55	45	43	39
		270	0.300	0.326	15 - 18 - 26	40	127	74.6	81.2	4.5 - 5.5 - 7.8	57	61	61	52	51	50
	4'	90	0.118	0.119	7 - 10 - 15	14	42	29.4	29.6	2.2 - 3.2 - 4.5	45	42	49	29	24	13
		150	0.328	0.331	11 - 13 - 19	26	71	81.6	82.3	3.3 - 4.1 - 5.8	52	53	62	42	40	34
		180	0.472	0.476	12 - 15 - 21	30	85	117.5	118.5	3.7 - 4.5 - 6.3	54	57	67	47	45	42
		210	0.642	0.648	13 - 16 - 23	34	99	159.9	161.4	4.0 - 4.8 - 6.9	56	61	71	51	50	49
		270	1.061	1.071	15 - 18 - 26	40	127	264.3	266.7	4.5 - 5.5 - 7.8	60	66	77	58	58	59
12" Oval Inlet	5'	100	0.061	0.063	7 - 11 - 16	13	47	15.3	15.6	2.1 - 3.2 - 4.7	43	39	42	26	21	-
		170	0.177	0.181	12 - 14 - 20	25	80	44.2	45.2	3.6 - 4.4 - 6.2	50	51	56	40	37	30
		205	0.258	0.264	13 - 16 - 22	30	97	64.3	65.7	3.9 - 4.8 - 6.8	53	55	61	45	42	38
		240	0.354	0.361	14 - 17 - 24	33	113	88.1	90.0	4.2 - 5.2 - 7.3	55	59	65	49	47	45
		310	0.590	0.603	16 - 19 - 27	40	146	146.9	150.2	4.8 - 5.9 - 8.3	59	64	72	56	55	56

NOTE: See notes on page F1-26.

**PTBA Performance Data: Horizontal Throw**

IP/METRIC DATA: PTBA, 3/4" SLOT WIDTH, 2-SLOT, 1-WAY (NO DAMPER)

	Linear Length	IP Data			Metric Data			Octave Band, dB							
		Air Flow	Pressure		1-Way Throw	Air Flow	Pressure		1-Way Throw	2	3	4	5	6	7
		CFM	"WG	"WG	ft	NC	L/s	Pa	Pa	m					
3/4" Slot Width	2'	60	0.026	0.032	5 - 10 - 21	15	28	6.4	8.0	1.4 - 3.1 - 6.5	39	33	20	18	12
		100	0.071	0.089	12 - 18 - 34	27	47	17.7	22.2	3.6 - 5.4 - 10.3	46	44	33	31	28
		120	0.102	0.128	14 - 21 - 37	31	57	25.5	31.9	4.3 - 6.5 - 11.3	49	48	38	36	33
		140	0.139	0.174	17 - 25 - 40	35	66	34.7	43.4	5.0 - 7.6 - 12.2	51	52	42	40	38
		180	0.230	0.288	21 - 32 - 46	41	85	57.4	71.8	6.5 - 9.7 - 13.8	54	57	49	47	45
	4'	75	0.018	0.028	3 - 6 - 13	-	35	4.4	7.0	0.8 - 1.7 - 3.8	32	23	-	-	-
		135	0.058	0.090	8 - 11 - 18	24	64	14.4	22.5	2.3 - 3.4 - 5.5	41	36	13	21	16
		165	0.086	0.135	9 - 14 - 20	28	78	21.5	33.6	2.8 - 4.2 - 6.1	43	40	19	26	22
		195	0.121	0.189	11 - 15 - 22	32	92	30.1	47.0	3.3 - 4.7 - 6.6	46	44	23	31	27
		255	0.206	0.323	14 - 18 - 25	39	120	51.4	80.3	4.3 - 5.3 - 7.6	49	50	30	38	35
6" Oval Inlet	5'	85	0.019	0.032	2 - 5 - 13	-	40	4.7	7.9	0.7 - 1.6 - 3.9	31	20	-	-	-
		155	0.063	0.106	8 - 12 - 19	23	73	15.7	26.4	2.3 - 3.5 - 5.9	39	34	-	19	13
		190	0.095	0.159	9 - 14 - 21	28	90	23.6	39.7	2.9 - 4.3 - 6.5	42	38	13	24	19
		225	0.133	0.223	11 - 17 - 23	32	106	33.1	55.6	3.4 - 5.0 - 7.1	45	42	18	29	24
		295	0.229	0.384	15 - 19 - 27	39	139	56.9	95.7	4.5 - 5.7 - 8.1	48	48	25	36	33
	2'	75	0.036	0.039	7 - 13 - 27	16	35	8.8	9.8	2.2 - 4.1 - 8.1	42	38	32	24	19
		125	0.099	0.109	15 - 22 - 38	28	59	24.6	27.2	4.5 - 6.8 - 11.5	49	49	46	37	34
		150	0.142	0.158	18 - 27 - 42	33	71	35.4	39.2	5.4 - 8.1 - 12.6	52	53	51	42	40
		175	0.193	0.214	21 - 31 - 45	36	83	48.1	53.4	6.3 - 9.5 - 13.6	54	57	55	46	44
		225	0.320	0.355	27 - 36 - 51	42	106	79.6	88.3	8.1 - 10.9 - 15.5	57	62	61	53	52
8" Oval Inlet	4'	100	0.020	0.027	4 - 8 - 16	12	47	5.1	6.8	1.4 - 2.5 - 4.7	36	29	12	13	-
		170	0.059	0.079	9 - 14 - 20	25	80	14.7	19.7	2.9 - 4.3 - 6.2	44	41	26	27	23
		205	0.086	0.115	11 - 16 - 22	29	97	21.4	28.6	3.5 - 4.8 - 6.8	46	45	31	32	28
		240	0.118	0.157	13 - 17 - 24	33	113	29.3	39.2	4.1 - 5.2 - 7.3	49	48	35	36	33
		310	0.196	0.263	16 - 19 - 27	39	146	48.9	65.4	4.8 - 5.9 - 8.3	52	54	42	43	36
	5'	120	0.023	0.033	5 - 9 - 17	13	57	5.7	8.1	1.4 - 2.7 - 5.2	36	28	-	12	-
		210	0.069	0.100	10 - 16 - 23	27	99	17.3	24.9	3.2 - 4.8 - 6.9	44	40	23	27	22
		255	0.102	0.147	13 - 18 - 25	31	120	25.5	36.7	3.9 - 5.3 - 7.6	46	45	28	32	28
		300	0.142	0.204	15 - 19 - 27	35	142	35.3	50.8	4.6 - 5.8 - 8.2	49	48	32	36	33
		390	0.240	0.345	18 - 22 - 31	41	184	59.7	85.8	5.4 - 6.6 - 9.3	52	54	39	43	41
3/4" Slot Width	2'	80	0.046	0.048	8 - 14 - 28	15	38	11.4	12.0	2.5 - 4.3 - 8.6	43	39	39	26	21
		130	0.121	0.127	15 - 23 - 39	27	61	30.1	31.6	4.7 - 7.0 - 11.8	50	50	51	38	35
		155	0.172	0.180	18 - 28 - 42	31	73	42.8	44.9	5.6 - 8.4 - 12.8	52	54	56	43	41
		180	0.232	0.243	21 - 32 - 46	34	85	57.7	60.6	6.5 - 9.7 - 13.8	54	57	60	47	45
		230	0.378	0.397	27 - 36 - 51	40	109	94.2	99.0	8.3 - 11.1 - 15.6	58	63	66	54	53
	4'	120	0.024	0.030	6 - 10 - 17	14	57	6.1	7.4	2.0 - 3.1 - 5.2	39	33	21	18	12
		210	0.075	0.091	12 - 16 - 23	27	99	18.6	22.6	3.6 - 4.8 - 6.9	47	45	36	33	29
		255	0.110	0.134	14 - 18 - 25	32	120	27.4	33.2	4.3 - 5.3 - 7.6	49	50	41	38	35
		300	0.152	0.185	16 - 19 - 27	36	142	37.9	46.0	4.7 - 5.8 - 8.2	52	53	45	42	40
		390	0.257	0.312	18 - 22 - 31	42	184	64.0	77.8	5.4 - 6.6 - 9.3	55	59	52	49	45
10" Oval Inlet	5'	130	0.021	0.027	5 - 10 - 18	13	61	5.1	6.7	1.7 - 3.0 - 5.4	37	30	15	14	-
		230	0.065	0.084	11 - 17 - 24	26	109	16.1	20.9	3.5 - 5.1 - 7.2	45	42	29	25	14
		280	0.096	0.124	14 - 18 - 26	31	132	23.9	30.9	4.3 - 5.6 - 7.9	48	47	35	34	22
		330	0.133	0.173	16 - 20 - 28	35	156	33.1	43.0	5.0 - 6.1 - 8.6	50	50	39	39	29
		430	0.226	0.293	19 - 23 - 32	41	203	56.2	72.9	5.7 - 6.9 - 9.8	54	56	46	44	40
	4'	120	0.023	0.025	6 - 10 - 17	-	57	5.8	6.3	2.0 - 3.1 - 5.2	39	33	28	18	12
		220	0.078	0.085	12 - 16 - 23	24	104	19.5	21.1	3.7 - 5.0 - 7.0	47	46	44	34	30
		270	0.118	0.128	15 - 18 - 26	29	127	29.3	31.8	4.5 - 5.5 - 7.8	50	51	50	39	37
		320	0.166	0.179	16 - 20 - 28	33	151	41.2	44.7	4.9 - 6.0 - 8.5	53	55	54	44	42
		420	0.285	0.309	18 - 23 - 32	40	198	71.0	76.9	5.6 - 6.9 - 9.7	56	61	61	51	49
12" Oval Inlet	5'	140	0.020	0.022	6 - 10 - 18	-	66	4.9	5.6	1.9 - 3.2 - 5.6	38	31	23	16	-
		260	0.068	0.077	13 - 18 - 25	25	123	17.0	19.3	3.9 - 5.4 - 7.6	47	45	40	33	29
		320	0.103	0.117	16 - 20 - 28	30	151	25.7	29.2	4.9 - 6.0 - 8.5	49	50	45	38	35
		380	0.146	0.165	18 - 21 - 30	34	179	36.3	41.1	5.3 - 6.5 - 9.2	52	53	50	43	40
		500	0.252	0.286	20 - 25 - 35	40	236	62.8	71.2	6.1 - 7.5 - 10.6	56	60	57	50	48

NOTE: See notes on page F1-26.



## PTBA Performance Data: Horizontal Throw

IP/METRIC DATA: PTBA, 3/4" SLOT WIDTH, 3-SLOT, 1-WAY (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	
	CFM	"WG	"WG	ft		L/s	Pa	Pa	m							
3/4" Slot Width	2'	60	0.015	0.022	4 - 8 - 20	-	28	3.8	5.4	1.1 - 2.5 - 6.0	33	24	-	-	-	-
		110	0.051	0.073	12 - 18 - 36	23	52	12.8	18.2	3.7 - 5.5 - 10.8	42	37	20	23	18	-
		135	0.077	0.110	15 - 22 - 39	28	64	19.2	27.4	4.5 - 6.8 - 12.0	45	42	25	29	24	13
		160	0.109	0.154	18 - 26 - 43	32	76	27.0	38.4	5.3 - 8.0 - 13.1	47	46	29	33	29	20
		210	0.187	0.266	23 - 35 - 49	38	99	46.6	66.2	7.0 - 10.5 - 15.0	51	52	37	40	38	32
	4'	100	0.023	0.041	4 - 8 - 16	-	47	5.7	10.2	1.1 - 2.4 - 4.7	31	20	-	-	-	-
		180	0.074	0.132	9 - 14 - 21	24	85	18.5	32.9	2.8 - 4.2 - 6.3	39	33	-	18	12	-
		220	0.111	0.198	11 - 16 - 23	29	104	27.7	49.2	3.5 - 5.0 - 7.0	42	37	-	23	18	-
		260	0.155	0.276	13 - 18 - 25	33	123	38.7	68.7	4.1 - 5.4 - 7.6	44	41	14	28	23	12
		340	0.265	0.472	17 - 20 - 29	39	160	66.1	117.5	5.0 - 6.2 - 8.7	48	47	21	35	31	23
6" Oval Inlet	5'	120	0.029	0.054	4 - 8 - 17	11	57	7.1	13.5	1.1 - 2.5 - 5.1	30	19	-	-	-	-
		210	0.088	0.167	10 - 15 - 23	24	99	21.9	41.5	3.0 - 4.4 - 6.9	38	31	-	16	-	-
		255	0.129	0.246	12 - 18 - 25	29	120	32.2	61.2	3.6 - 5.3 - 7.6	41	36	-	21	16	-
		300	0.179	0.340	14 - 19 - 27	33	142	44.6	84.7	4.2 - 5.8 - 8.2	43	39	-	26	21	-
		390	0.303	0.575	18 - 22 - 31	39	184	75.4	143.1	5.4 - 6.6 - 9.3	47	45	16	33	29	19
	2'	75	0.017	0.021	6 - 12 - 25	-	35	4.3	5.2	1.7 - 3.8 - 7.5	36	29	16	13	-	-
		135	0.056	0.068	15 - 22 - 39	24	64	13.8	17.0	4.5 - 6.8 - 12.0	45	42	32	29	24	13
		165	0.083	0.102	18 - 27 - 44	29	78	20.7	25.4	5.5 - 8.3 - 13.3	47	46	37	34	30	21
		195	0.116	0.142	21 - 32 - 47	33	92	28.9	35.4	6.5 - 9.8 - 14.4	50	50	41	38	35	28
		255	0.198	0.243	28 - 38 - 54	39	120	49.4	60.6	8.5 - 11.7 - 16.5	53	56	48	46	44	40
3/4" Slot Width	4'	115	0.017	0.026	5 - 9 - 17	-	54	4.3	6.6	1.4 - 2.7 - 5.1	33	23	-	-	-	-
		215	0.060	0.092	11 - 16 - 23	24	101	15.1	23.0	3.4 - 4.9 - 6.9	41	37	16	23	17	-
		265	0.092	0.140	14 - 18 - 25	29	125	22.9	34.9	4.2 - 5.4 - 7.7	44	41	21	28	24	12
		315	0.130	0.198	16 - 20 - 28	33	149	32.3	49.4	4.8 - 5.9 - 8.4	47	45	26	33	29	20
		415	0.225	0.344	18 - 22 - 32	40	196	56.1	85.7	5.6 - 6.8 - 9.6	51	51	33	40	37	31
	5'	125	0.017	0.028	4 - 9 - 17	-	59	4.2	6.9	1.2 - 2.6 - 5.3	31	20	-	-	-	-
		245	0.064	0.106	11 - 17 - 24	24	116	16.0	26.3	3.4 - 5.2 - 7.4	40	35	-	20	15	-
		305	0.100	0.164	14 - 19 - 27	29	144	24.9	40.8	4.3 - 5.8 - 8.3	43	40	16	26	21	-
		365	0.143	0.235	17 - 21 - 30	33	172	35.6	58.5	5.1 - 6.4 - 9.0	46	44	21	31	27	16
		485	0.252	0.415	20 - 24 - 34	40	229	62.9	103.2	6.0 - 7.4 - 10.4	50	50	28	38	35	28
3/4" Slot Width	2'	100	0.028	0.032	10 - 16 - 33	14	47	7.0	7.9	3.1 - 5.0 - 10.0	40	35	28	21	15	-
		170	0.081	0.091	19 - 28 - 44	27	80	20.2	22.8	5.7 - 8.5 - 13.5	48	47	42	35	31	23
		205	0.118	0.133	23 - 34 - 49	31	97	29.3	33.1	6.8 - 10.3 - 14.8	50	51	47	40	37	31
		240	0.161	0.182	26 - 37 - 53	35	113	40.2	45.4	8.0 - 11.3 - 16.0	53	55	51	44	42	37
		310	0.269	0.304	34 - 42 - 60	41	146	67.0	75.7	10.3 - 12.8 - 18.2	56	60	58	51	49	48
	4'	130	0.016	0.023	6 - 10 - 18	-	61	4.1	5.6	1.8 - 3.1 - 5.4	34	26	-	-	-	-
		240	0.056	0.077	12 - 17 - 24	24	113	13.9	19.1	3.8 - 5.2 - 7.3	43	39	23	26	21	-
		295	0.084	0.116	15 - 19 - 27	29	139	21.0	28.9	4.6 - 5.7 - 8.1	46	44	29	31	27	17
		350	0.119	0.163	17 - 21 - 29	33	165	29.6	40.7	5.1 - 6.3 - 8.8	48	48	33	36	32	24
		460	0.205	0.282	19 - 24 - 33	40	217	51.1	70.2	5.9 - 7.2 - 10.1	52	54	40	43	40	35
10" Oval Inlet	5'	150	0.017	0.025	6 - 10 - 19	-	71	4.3	6.3	1.7 - 3.2 - 5.8	33	24	-	-	-	-
		280	0.059	0.088	13 - 18 - 26	24	132	14.8	21.9	3.9 - 5.6 - 7.9	42	38	18	24	19	-
		345	0.090	0.133	16 - 20 - 29	29	163	22.5	33.2	4.9 - 6.2 - 8.8	45	42	24	29	25	14
		410	0.128	0.188	18 - 22 - 31	34	193	31.7	46.9	5.5 - 6.8 - 9.6	47	46	28	34	30	21
		540	0.221	0.327	21 - 26 - 36	40	255	55.1	81.4	6.3 - 7.8 - 11.0	51	52	36	41	39	33
	4'	160	0.019	0.022	8 - 12 - 20	-	76	4.6	5.5	2.5 - 3.8 - 6.0	37	30	20	15	-	-
		290	0.061	0.072	15 - 19 - 26	25	137	15.2	18.0	4.6 - 5.7 - 8.1	46	43	35	31	26	16
		355	0.092	0.109	17 - 21 - 29	29	168	22.8	27.0	5.1 - 6.3 - 8.9	48	48	40	36	33	25
		420	0.128	0.152	18 - 23 - 32	33	198	31.9	37.9	5.6 - 6.9 - 9.7	51	52	45	40	38	32
		550	0.220	0.261	21 - 26 - 36	40	260	54.8	64.9	6.4 - 7.8 - 11.1	54	58	52	48	46	43
12" Oval Inlet	5'	180	0.017	0.021	8 - 12 - 21	-	85	4.1	5.2	2.5 - 3.8 - 6.3	36	28	14	12	-	-
		340	0.059	0.075	16 - 20 - 29	25	160	14.8	18.7	4.8 - 6.2 - 8.7	45	42	30	29	25	13
		420	0.091	0.114	18 - 23 - 32	30	198	22.6	28.5	5.6 - 6.9 - 9.7	48	47	36	34	31	22
		500	0.129	0.162	20 - 25 - 35	34	236	32.0	40.4	6.1 - 7.5 - 10.6	50	51	40	39	36	30
		660	0.224	0.283	23 - 28 - 40	41	311	55.8	70.4	7.0 - 8.6 - 12.1	54	57	48	47	45	41

NOTE: See notes on page F1-26.

**PTBA Performance Data: Horizontal Throw**

IP/METRIC DATA: PTBA, 3/4" SLOT WIDTH, 4-SLOT, 1-WAY (NO DAMPER)

	Linear Length	IP Data			Metric Data			Octave Band, dB								
		Air Flow	Pressure		1-Way Throw	Air Flow	Pressure		1-Way Throw	Octave Band, dB						
			CFM	"WG			L/s	Pa		2	3	4	5	6	7	
3/4" Slot Width	2'	65	0.011	0.018	2 - 4 - 16	-	31	2.6	4.5	0.6 - 1.3 - 5.0	30	19	-	-	-	-
		125	0.039	0.067	7 - 16 - 31	24	59	9.7	16.7	2.1 - 4.8 - 9.6	39	34	-	19	13	-
		155	0.060	0.103	11 - 19 - 39	29	73	15.0	25.6	3.3 - 5.9 - 11.8	42	39	13	25	20	-
		185	0.086	0.147	15 - 23 - 46	33	87	21.3	36.5	4.7 - 7.1 - 14.0	45	42	18	29	25	14
		245	0.150	0.257	21 - 31 - 53	40	116	37.4	64.1	6.2 - 9.4 - 16.2	49	49	25	37	34	26
	6' Oval Inlet	115	0.022	0.046	2 - 5 - 14	12	54	5.5	11.3	0.6 - 1.4 - 4.1	29	17	-	-	-	-
		205	0.070	0.145	7 - 12 - 22	25	97	17.3	36.0	2.0 - 3.7 - 6.8	37	29	-	14	-	-
		250	0.104	0.215	10 - 15 - 25	30	118	25.8	53.6	3.0 - 4.5 - 7.5	39	34	-	19	13	-
		295	0.144	0.300	12 - 17 - 27	34	139	35.9	74.6	3.5 - 5.3 - 8.1	42	37	-	23	18	-
		385	0.246	0.510	15 - 22 - 31	40	182	61.1	127.1	4.6 - 6.6 - 9.3	45	43	-	30	26	16
3/4" Slot Width	4'	125	0.024	0.052	2 - 4 - 13	-	59	5.9	12.8	0.5 - 1.2 - 4.0	27	14	-	-	-	-
		235	0.083	0.182	6 - 12 - 24	25	111	20.8	45.3	1.9 - 3.8 - 7.2	36	28	-	11	-	-
		290	0.127	0.277	10 - 15 - 26	30	137	31.6	69.0	2.9 - 4.7 - 8.1	38	32	-	17	11	-
		345	0.180	0.392	12 - 18 - 29	34	163	44.7	97.7	3.7 - 5.6 - 8.8	41	36	-	22	16	-
		455	0.312	0.682	16 - 23 - 33	41	215	77.8	169.9	4.9 - 7.1 - 10.1	45	42	-	29	25	14
	8' Oval Inlet	90	0.012	0.018	4 - 8 - 23	12	42	3.0	4.4	1.1 - 2.5 - 6.9	35	27	-	-	-	-
		160	0.038	0.055	12 - 20 - 40	26	76	9.4	13.8	3.5 - 6.1 - 12.2	43	39	20	26	21	-
		195	0.056	0.082	16 - 25 - 47	31	92	13.9	20.5	5.0 - 7.5 - 14.4	46	44	26	31	27	16
		230	0.078	0.114	19 - 29 - 51	35	109	19.4	28.5	5.9 - 8.8 - 15.6	48	47	30	35	32	23
		300	0.132	0.194	25 - 38 - 59	41	142	33.0	48.4	7.6 - 11.5 - 17.9	52	53	37	42	40	34
	5'	140	0.016	0.030	3 - 7 - 17	12	66	4.0	7.4	0.9 - 2.1 - 5.0	31	21	-	-	-	-
		240	0.048	0.087	9 - 14 - 24	25	113	11.9	21.8	2.8 - 4.3 - 7.3	39	33	-	18	12	-
		290	0.070	0.128	11 - 17 - 26	29	137	17.4	31.8	3.5 - 5.2 - 8.1	42	37	-	23	18	-
		340	0.096	0.176	13 - 20 - 29	33	160	23.9	43.7	4.1 - 6.1 - 8.7	44	41	12	27	23	11
		440	0.161	0.294	17 - 23 - 33	39	208	40.0	73.2	5.3 - 7.0 - 9.9	47	46	19	34	30	21
3/4" Slot Width	2'	160	0.019	0.036	3 - 7 - 17	12	76	4.6	9.0	0.9 - 2.0 - 5.2	30	19	-	-	-	-
		280	0.057	0.111	9 - 15 - 26	25	132	14.2	27.6	2.7 - 4.5 - 7.9	38	31	-	16	-	-
		340	0.084	0.164	12 - 18 - 29	30	160	20.9	40.7	3.7 - 5.5 - 8.7	41	36	-	21	16	-
		400	0.116	0.226	14 - 21 - 31	34	189	28.9	56.4	4.3 - 6.4 - 9.5	43	39	-	26	21	-
		520	0.196	0.383	18 - 25 - 35	40	245	48.9	95.3	5.6 - 7.6 - 10.8	47	45	15	33	29	19
	4'	100	0.011	0.015	4 - 10 - 25	12	47	2.8	3.7	1.4 - 3.1 - 7.6	36	29	13	13	-	-
		180	0.036	0.048	15 - 23 - 45	26	85	9.1	12.0	4.4 - 6.9 - 13.8	45	42	28	29	24	13
		220	0.054	0.072	18 - 28 - 50	31	104	13.5	17.9	5.6 - 8.4 - 15.3	47	46	33	34	30	21
		260	0.076	0.100	22 - 33 - 55	35	123	18.9	25.0	6.6 - 9.9 - 16.6	50	50	38	38	35	28
		340	0.130	0.172	28 - 43 - 63	41	160	32.3	42.7	8.7 - 13.0 - 19.0	53	56	45	46	44	40
	10" Oval Inlet	150	0.012	0.021	4 - 8 - 18	11	71	3.1	5.1	1.1 - 2.4 - 5.4	32	23	-	-	-	-
		270	0.040	0.067	11 - 16 - 26	25	127	10.0	16.6	3.2 - 4.9 - 7.8	41	36	11	21	16	-
		330	0.060	0.099	13 - 20 - 28	30	156	14.9	24.8	4.0 - 5.9 - 8.6	43	40	16	26	22	-
		390	0.084	0.139	15 - 22 - 31	34	184	20.8	34.6	4.7 - 6.6 - 9.3	46	44	20	31	27	16
		510	0.143	0.237	20 - 25 - 35	40	241	35.6	59.1	6.1 - 7.6 - 10.7	49	50	28	38	35	28
	5'	175	0.014	0.025	3 - 8 - 19	11	83	3.6	6.3	1.1 - 2.4 - 5.6	31	21	-	-	-	-
		315	0.046	0.082	11 - 17 - 28	25	149	11.5	20.5	3.4 - 5.1 - 8.4	40	34	-	19	14	-
		385	0.069	0.123	14 - 20 - 31	30	182	17.2	30.6	4.1 - 6.2 - 9.3	42	38	11	25	20	-
		455	0.096	0.171	16 - 23 - 33	34	215	24.0	42.7	4.9 - 7.1 - 10.1	45	42	16	29	25	14
		595	0.165	0.293	21 - 27 - 38	40	281	41.1	73.0	6.4 - 8.2 - 11.5	48	48	23	36	33	25
	4'	190	0.012	0.017	6 - 11 - 21	13	90	3.0	4.2	1.7 - 3.4 - 6.5	36	28	-	12	-	-
		340	0.038	0.054	13 - 20 - 29	26	160	9.5	13.3	4.1 - 6.1 - 8.7	44	41	24	27	23	11
		415	0.057	0.080	16 - 22 - 32	31	196	14.1	19.9	5.0 - 6.8 - 9.6	47	45	29	32	29	19
		490	0.079	0.111	19 - 24 - 34	35	231	19.6	27.7	5.9 - 7.4 - 10.5	49	49	33	37	34	26
		640	0.135	0.190	23 - 28 - 39	41	302	33.5	47.3	6.9 - 8.5 - 12.0	53	55	40	44	42	37
	5'	210	0.011	0.017	5 - 11 - 22	12	99	2.9	4.3	1.5 - 3.4 - 6.8	34	25	-	-	-	-
		370	0.036	0.054	13 - 20 - 30	25	175	8.9	13.5	4.0 - 6.0 - 9.1	42	38	17	23	18	-
		450	0.053	0.080	16 - 23 - 33	30	212	13.1	19.9	4.8 - 7.1 - 10.0	45	42	22	29	24	13
		530	0.073	0.111	19 - 25 - 36	33	250	18.2	27.6	5.7 - 7.7 - 10.9	47	45	26	33	29	20
		690	0.124	0.188	24 - 29 - 41	40	326	30.9	46.8	7.2 - 8.8 - 12.4	51	51	33	40	37	31

NOTE: See notes on page F1-26.



**PTBA Performance Data: Horizontal Throw**

IP/METRIC DATA: PTBA, 1" SLOT WIDTH, 1-SLOT, 1-WAY (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	
	CFM	"WG	"WG	ft		L/s	Pa	Pa	m							
1" Slot Width  6" Oval Inlet	2'	25	0.009	0.010	1 - 3 - 11	-	12	2.2	2.5	0.4 - 1.0 - 3.3	49	32	22	24	-	-
		55	0.043	0.048	7 - 12 - 24	24	26	10.7	12.0	2.1 - 3.6 - 7.3	55	48	40	41	32	24
		70	0.069	0.078	10 - 15 - 28	30	33	17.3	19.5	3.1 - 4.6 - 8.6	56	52	46	46	42	34
		85	0.102	0.115	12 - 19 - 31	34	40	25.5	28.7	3.8 - 5.6 - 9.5	58	56	51	50	49	42
		115	0.187	0.211	17 - 25 - 36	41	54	46.7	52.6	5.1 - 7.6 - 11.1	60	62	58	57	61	54
	4'	50	0.012	0.017	2 - 5 - 10	11	24	3.0	4.1	0.6 - 1.4 - 3.1	53	43	31	31	24	21
		90	0.039	0.054	6 - 9 - 15	25	42	9.8	13.4	1.9 - 2.8 - 4.5	57	55	45	44	47	45
		110	0.059	0.080	8 - 11 - 16	30	52	14.6	20.0	2.3 - 3.4 - 5.0	59	59	50	48	54	53
		130	0.082	0.112	9 - 13 - 18	34	61	20.4	28.0	2.7 - 3.8 - 5.4	60	62	54	52	61	59
		170	0.140	0.192	12 - 14 - 20	40	80	35.0	47.8	3.5 - 4.4 - 6.2	62	67	60	58	71	70
1" Slot Width  8" Oval Inlet	5'	70	0.019	0.027	3 - 6 - 13	16	33	4.6	6.8	0.9 - 2.0 - 3.9	55	49	37	36	36	35
		110	0.046	0.067	7 - 10 - 16	26	52	11.4	16.8	2.0 - 3.1 - 5.0	58	58	48	46	53	53
		130	0.064	0.094	8 - 12 - 18	30	61	15.9	23.5	2.4 - 3.6 - 5.4	59	61	52	49	59	60
		150	0.085	0.125	9 - 13 - 19	34	71	21.2	31.2	2.8 - 4.1 - 5.8	61	64	55	52	65	65
		190	0.137	0.201	12 - 15 - 21	39	90	34.1	50.1	3.5 - 4.6 - 6.5	62	69	61	57	74	75
	2'	35	0.021	0.022	3 - 6 - 15	-	17	5.3	5.5	0.9 - 2.0 - 4.6	49	31	23	26	-	-
		65	0.073	0.076	9 - 14 - 27	24	31	18.1	18.9	2.9 - 4.3 - 8.3	53	43	38	40	24	12
		80	0.110	0.115	12 - 17 - 30	29	38	27.5	28.6	3.5 - 5.3 - 9.2	55	47	43	44	32	20
		95	0.156	0.162	14 - 21 - 33	33	45	38.8	40.3	4.2 - 6.3 - 10.1	56	51	47	48	38	27
		125	0.270	0.280	18 - 27 - 38	39	59	67.1	69.8	5.5 - 8.2 - 11.5	58	56	53	54	49	38
1" Slot Width  10" Oval Inlet	4'	70	0.018	0.021	4 - 7 - 13	15	33	4.5	5.3	1.2 - 2.2 - 4.0	53	42	33	34	22	15
		110	0.045	0.053	8 - 11 - 16	26	52	11.1	13.2	2.3 - 3.4 - 5.0	56	51	43	43	39	33
		130	0.062	0.074	9 - 13 - 18	30	61	15.5	18.4	2.7 - 3.8 - 5.4	57	54	47	47	46	40
		150	0.083	0.098	10 - 13 - 19	33	71	20.7	24.5	3.1 - 4.1 - 5.8	58	57	51	50	51	46
		190	0.133	0.158	12 - 15 - 21	39	90	33.1	39.3	3.8 - 4.6 - 6.5	60	62	56	55	60	55
	5'	85	0.019	0.024	4 - 8 - 14	16	40	4.7	5.9	1.3 - 2.4 - 4.4	54	45	35	35	28	23
		135	0.048	0.060	8 - 12 - 18	27	64	11.8	15.0	2.5 - 3.8 - 5.5	57	54	46	45	46	42
		160	0.067	0.084	10 - 14 - 20	31	76	16.6	21.0	3.0 - 4.2 - 6.0	58	58	50	49	52	48
		185	0.089	0.113	11 - 15 - 21	35	87	22.2	28.1	3.4 - 4.5 - 6.4	59	61	53	52	58	54
		235	0.144	0.182	14 - 17 - 24	40	111	35.9	45.4	4.2 - 5.1 - 7.2	61	65	59	57	67	64
1" Slot Width  12" Oval Inlet	2'	50	0.068	0.069	6 - 11 - 22	15	24	16.9	17.1	1.8 - 3.3 - 6.6	49	33	27	31	-	-
		80	0.174	0.176	12 - 17 - 30	26	38	43.2	43.8	3.5 - 5.3 - 9.2	53	42	38	41	21	-
		95	0.245	0.248	14 - 21 - 33	30	45	60.9	61.8	4.2 - 6.3 - 10.1	54	46	42	45	28	14
		110	0.328	0.333	16 - 24 - 36	34	52	81.7	82.8	4.9 - 7.3 - 10.8	55	49	46	48	34	20
		140	0.532	0.539	20 - 28 - 40	39	66	132.4	134.1	6.2 - 8.6 - 12.2	57	53	52	53	43	29
	4'	90	0.029	0.032	6 - 9 - 15	18	42	7.2	7.9	1.9 - 2.8 - 4.5	53	42	34	36	21	12
		140	0.070	0.077	10 - 13 - 18	29	66	17.4	19.2	2.9 - 4.0 - 5.6	56	51	45	45	38	30
		165	0.097	0.107	11 - 14 - 20	33	78	24.2	26.6	3.4 - 4.3 - 6.1	57	54	49	49	45	36
		190	0.129	0.142	12 - 15 - 21	36	90	32.0	35.3	3.8 - 4.6 - 6.5	58	57	52	52	50	42
		240	0.205	0.226	14 - 17 - 24	41	113	51.1	56.3	4.2 - 5.2 - 7.3	60	62	57	57	59	51
	5'	100	0.023	0.027	6 - 9 - 16	17	47	5.7	6.6	1.8 - 2.8 - 4.7	53	43	35	35	24	16
		150	0.052	0.060	9 - 13 - 19	27	71	12.9	14.9	2.8 - 4.1 - 5.8	56	51	44	44	40	33
		175	0.070	0.082	11 - 15 - 21	31	83	17.5	20.3	3.3 - 4.4 - 6.3	57	54	48	47	46	39
		200	0.092	0.106	12 - 16 - 22	34	94	22.9	26.5	3.7 - 4.7 - 6.7	58	57	51	50	51	44
		250	0.144	0.166	14 - 17 - 25	39	118	35.8	41.4	4.3 - 5.3 - 7.5	60	61	56	55	59	53
1" Slot Width  12" Oval Inlet	4'	100	0.049	0.051	7 - 10 - 16	17	47	12.3	12.6	2.1 - 3.1 - 4.7	51	36	30	33	-	-
		160	0.126	0.130	11 - 14 - 20	28	76	31.5	32.3	3.3 - 4.2 - 6.0	54	45	41	43	28	15
		190	0.178	0.183	12 - 15 - 21	32	90	44.4	45.6	3.8 - 4.6 - 6.5	55	49	45	47	34	22
		220	0.239	0.246	13 - 16 - 23	35	104	59.5	61.1	4.0 - 5.0 - 7.0	56	52	49	50	40	28
		280	0.387	0.398	15 - 18 - 26	41	132	96.4	99.0	4.6 - 5.6 - 7.9	58	57	54	55	49	37
	5'	110	0.031	0.032	7 - 10 - 16	15	52	7.7	8.1	2.0 - 3.1 - 5.0	51	37	30	32	12	-
		180	0.082	0.087	11 - 15 - 21	27	85	20.5	21.6	3.3 - 4.5 - 6.3	54	47	42	43	31	20
		215	0.118	0.124	13 - 16 - 23	31	101	29.3	30.8	4.0 - 4.9 - 6.9	56	50	46	47	38	27
		250	0.159	0.167	14 - 17 - 25	35	118	39.6	41.7	4.3 - 5.3 - 7.5	57	53	49	50	43	33
		320	0.261	0.274	16 - 20 - 28	41	151	64.9	68.3	4.9 - 6.0 - 8.5	59	58	55	55	53	43

NOTE: See notes on page F1-26.

**PTBA Performance Data: Horizontal Throw**

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

	Linear Length	IP Data			Metric Data			Octave Band, dB								
		Air Flow	Pressure		1-Way Throw	Air Flow	Pressure		1-Way Throw							
			CFM	"WG			L/s	Pa		2	3	4	5	6	7	
1" Slot Width	2'	60	0.017	0.024	3 - 7 - 18	15	28	4.4	6.0	0.9 - 2.0 - 5.6	54	47	36	35	31	28
		100	0.049	0.066	8 - 15 - 31	27	47	12.1	16.5	2.5 - 4.7 - 9.4	58	57	48	46	51	49
		120	0.070	0.096	12 - 18 - 37	32	57	17.4	23.8	3.6 - 5.6 - 11.2	59	60	52	50	58	56
		140	0.095	0.130	14 - 22 - 40	35	66	23.7	32.4	4.4 - 6.6 - 12.2	60	64	56	53	64	62
		180	0.157	0.215	18 - 28 - 46	41	85	39.2	53.6	5.6 - 8.4 - 13.8	62	69	62	59	73	73
	6" Oval Inlet	70	0.012	0.021	1 - 3 - 10	-	33	3.1	5.2	0.4 - 1.0 - 3.1	54	47	32	31	32	35
		130	0.042	0.072	5 - 9 - 18	23	61	10.5	18.0	1.5 - 2.9 - 5.4	59	59	47	44	56	60
		160	0.064	0.110	7 - 12 - 20	28	76	15.9	27.3	2.3 - 3.5 - 6.0	60	63	52	49	64	68
		190	0.090	0.155	9 - 14 - 21	32	90	22.5	38.5	2.8 - 4.2 - 6.5	62	67	56	52	71	75
		250	0.156	0.268	12 - 17 - 25	39	118	38.9	66.7	3.7 - 5.3 - 7.5	64	72	62	58	81	86
8" Oval Inlet	2'	80	0.014	0.025	1 - 3 - 10	-	38	3.4	6.3	0.4 - 0.9 - 3.2	55	49	33	31	36	41
		150	0.048	0.088	5 - 10 - 19	23	71	12.0	22.0	1.4 - 3.0 - 5.8	59	61	48	45	60	66
		185	0.073	0.134	7 - 12 - 21	28	87	18.2	33.5	2.2 - 3.7 - 6.4	61	66	53	49	68	74
		220	0.104	0.190	10 - 14 - 23	32	104	25.8	47.3	2.9 - 4.3 - 7.0	62	69	57	53	75	81
		290	0.180	0.330	13 - 19 - 26	39	137	44.8	82.2	3.8 - 5.7 - 8.1	64	75	64	59	86	92
	4'	75	0.021	0.025	5 - 10 - 23	17	35	5.2	6.1	1.4 - 3.2 - 7.0	53	43	34	35	25	18
		115	0.049	0.058	11 - 18 - 35	27	54	12.1	14.4	3.3 - 5.4 - 10.8	56	52	45	44	41	35
		135	0.067	0.080	14 - 21 - 39	31	64	16.7	19.9	4.2 - 6.3 - 12.0	57	55	48	48	47	41
		155	0.089	0.105	16 - 24 - 42	34	73	22.1	26.2	4.8 - 7.3 - 12.8	58	58	52	51	53	47
		195	0.140	0.166	20 - 30 - 47	39	92	34.9	41.4	6.1 - 9.1 - 14.4	60	63	57	56	61	56
10" Oval Inlet	2'	90	0.012	0.018	2 - 5 - 13	-	42	3.0	4.4	0.7 - 1.6 - 4.0	53	44	32	31	27	26
		160	0.038	0.055	7 - 12 - 20	24	76	9.4	13.8	2.3 - 3.5 - 6.0	58	56	45	44	49	49
		195	0.056	0.082	9 - 14 - 22	29	92	13.9	20.5	2.9 - 4.3 - 6.6	59	60	50	48	57	57
		230	0.078	0.114	11 - 17 - 24	33	109	19.4	28.5	3.4 - 5.1 - 7.2	60	63	54	51	63	63
		300	0.132	0.194	15 - 19 - 27	39	142	33.0	48.4	4.4 - 5.8 - 8.2	62	68	60	57	73	74
	4'	100	0.012	0.019	2 - 5 - 13	-	47	3.0	4.7	0.6 - 1.4 - 3.9	54	46	32	31	30	30
		190	0.043	0.068	8 - 12 - 21	25	90	10.7	16.9	2.3 - 3.7 - 6.5	58	58	47	45	54	56
		235	0.066	0.104	10 - 15 - 24	30	111	16.3	25.8	3.1 - 4.6 - 7.2	60	63	52	49	62	64
		280	0.093	0.147	12 - 18 - 26	34	132	23.2	36.6	3.7 - 5.5 - 7.9	61	66	56	53	69	72
		370	0.163	0.257	16 - 21 - 30	40	175	40.5	64.0	4.9 - 6.4 - 9.1	63	72	63	59	80	83
12" Oval Inlet	2'	90	0.029	0.032	7 - 14 - 28	18	42	7.2	7.9	2.0 - 4.2 - 8.4	53	42	34	36	21	12
		140	0.070	0.077	14 - 22 - 40	29	66	17.4	19.2	4.4 - 6.6 - 12.2	56	51	45	45	38	30
		165	0.097	0.107	17 - 25 - 44	33	78	24.2	26.6	5.1 - 7.7 - 13.3	57	54	49	49	45	36
		190	0.129	0.142	20 - 29 - 47	36	90	32.0	35.3	5.9 - 8.9 - 14.2	58	57	52	50	50	42
		240	0.205	0.226	25 - 37 - 53	41	113	51.1	56.3	7.5 - 11.2 - 16.0	60	62	57	57	59	51
	4'	100	0.011	0.015	3 - 7 - 15	-	47	2.8	3.7	0.9 - 2.0 - 4.4	52	41	30	30	21	17
		180	0.036	0.048	9 - 13 - 21	24	85	9.1	12.0	2.6 - 4.0 - 6.3	57	53	44	43	43	40
		220	0.054	0.072	11 - 16 - 23	29	104	13.5	17.9	3.2 - 4.9 - 7.0	58	57	49	47	51	48
		260	0.076	0.100	13 - 18 - 25	33	123	18.9	25.0	3.8 - 5.4 - 7.6	59	60	52	51	58	55
		340	0.130	0.172	16 - 20 - 29	39	160	32.3	42.7	5.0 - 6.2 - 8.7	61	66	59	56	68	66
	5'	110	0.010	0.015	3 - 6 - 14	-	52	2.6	3.7	0.8 - 1.7 - 4.3	53	42	30	30	23	21
		210	0.038	0.054	9 - 14 - 23	24	99	9.4	13.4	2.8 - 4.1 - 6.9	57	55	45	44	48	47
		260	0.058	0.083	11 - 17 - 25	29	123	14.5	20.6	3.4 - 5.1 - 7.6	59	59	50	48	56	55
		310	0.083	0.117	13 - 19 - 27	33	146	20.6	29.2	4.1 - 5.9 - 8.3	60	63	54	52	63	62
		410	0.145	0.205	18 - 22 - 31	40	193	36.0	51.2	5.4 - 6.8 - 9.6	62	69	61	58	74	74
1" Slot Width	4'	150	0.020	0.023	7 - 11 - 19	16	71	5.0	5.8	2.0 - 3.3 - 5.8	52	41	33	34	21	13
		250	0.056	0.064	12 - 17 - 25	28	118	13.9	16.0	3.7 - 5.3 - 7.5	56	52	45	45	40	33
		300	0.080	0.093	15 - 19 - 27	32	142	20.0	23.1	4.4 - 5.8 - 8.2	57	55	49	49	47	41
		350	0.110	0.126	17 - 21 - 29	36	165	27.3	31.4	5.1 - 6.3 - 8.8	59	58	53	52	53	47
		450	0.181	0.208	19 - 23 - 33	42	212	45.1	51.9	5.8 - 7.1 - 10.0	60	63	59	57	63	57
	5'	170	0.018	0.022	6 - 11 - 20	15	80	4.4	5.4	1.8 - 3.4 - 6.2	53	43	33	34	24	18
		280	0.048	0.059	12 - 18 - 26	27	132	12.0	14.6	3.7 - 5.5 - 7.9	57	53	45	45	43	38
		335	0.069	0.084	14 - 20 - 28	31	158	17.1	20.9	4.4 - 6.1 - 8.7	58	57	49	49	50	45
		390	0.093	0.114	17 - 22 - 31	35	184	23.2	28.3	5.1 - 6.6 - 9.3	59	60	53	52	56	51
		500	0.153	0.187	20 - 25 - 35	41	236	38.2	46.6	6.1 - 7.5 - 10.6	61	65	59	57	66	61

NOTE: See notes on page F1-26.



**PTBA Performance Data: Horizontal Throw**

IP/METRIC DATA: PTBA, 1" SLOT WIDTH, 3-SLOT, 1-WAY (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	
	CFM	"WG	"WG	ft		L/s	Pa	Pa	m							
1" Slot Width  6" Oval Inlet	2'	75	0.018	0.028	3 - 6 - 19	14	35	4.4	7.0	0.8 - 1.7 - 5.7	55	49	37	36	37	38
		125	0.050	0.078	7 - 16 - 31	26	59	12.4	19.3	2.1 - 4.8 - 9.6	59	60	49	46	57	58
		150	0.071	0.112	10 - 19 - 38	31	71	17.8	27.8	3.1 - 5.7 - 11.5	60	63	53	50	64	66
		175	0.097	0.152	14 - 22 - 44	34	83	24.2	37.8	4.2 - 6.7 - 13.4	61	66	57	54	70	72
		225	0.161	0.251	19 - 28 - 51	40	106	40.0	62.5	5.7 - 8.6 - 15.5	63	71	63	59	79	82
	4'	100	0.019	0.037	2 - 4 - 12	-	47	4.8	9.2	0.5 - 1.1 - 3.6	56	52	37	34	43	50
		180	0.062	0.120	5 - 11 - 21	25	85	15.5	29.9	1.6 - 3.2 - 6.3	60	64	51	47	66	73
		220	0.093	0.179	8 - 13 - 23	29	104	23.1	44.6	2.3 - 4.0 - 7.0	62	68	55	51	74	81
		260	0.130	0.250	10 - 15 - 25	33	123	32.3	62.4	3.1 - 4.7 - 7.6	63	72	59	54	80	88
		340	0.222	0.428	13 - 20 - 29	40	160	55.2	106.6	4.1 - 6.1 - 8.7	65	77	66	60	91	99
1" Slot Width  8" Oval Inlet	2'	120	0.025	0.050	2 - 4 - 13	12	57	6.1	12.5	0.5 - 1.1 - 3.9	57	55	39	35	49	57
		220	0.083	0.169	6 - 12 - 23	26	104	20.6	42.1	1.7 - 3.5 - 7.0	62	67	53	48	72	82
		270	0.124	0.255	8 - 14 - 26	31	127	31.0	63.4	2.5 - 4.4 - 7.8	63	71	58	53	80	90
		320	0.175	0.358	11 - 17 - 28	35	151	43.5	89.1	3.4 - 5.2 - 8.5	64	75	62	56	87	97
		420	0.301	0.616	15 - 22 - 32	41	198	75.0	153.5	4.5 - 6.8 - 9.7	66	80	68	62	97	108
	4'	80	0.013	0.018	3 - 6 - 20	12	38	3.3	4.4	0.9 - 2.0 - 6.1	53	43	32	32	24	21
		140	0.040	0.054	9 - 18 - 35	25	66	10.0	13.3	2.7 - 5.3 - 10.7	57	54	45	44	46	43
		170	0.059	0.079	13 - 21 - 43	30	80	14.7	19.7	3.9 - 6.5 - 13.0	58	58	50	48	53	51
		200	0.082	0.109	17 - 25 - 48	34	94	20.4	27.2	5.1 - 7.6 - 14.6	60	61	54	52	60	58
		260	0.138	0.185	22 - 33 - 55	40	123	34.4	46.0	6.6 - 9.9 - 16.6	62	67	60	57	70	68
1" Slot Width  10" Oval Inlet	2'	125	0.016	0.027	2 - 6 - 15	12	59	4.0	6.6	0.8 - 1.7 - 4.5	55	49	36	34	37	39
		225	0.052	0.086	8 - 13 - 23	26	106	12.8	21.5	2.4 - 4.1 - 7.1	59	61	49	46	60	63
		275	0.077	0.129	11 - 16 - 26	31	130	19.2	32.2	3.3 - 5.0 - 7.8	61	65	54	51	67	71
		325	0.108	0.180	13 - 19 - 28	35	153	26.8	44.9	3.9 - 5.9 - 8.5	62	68	58	54	74	78
		425	0.184	0.309	17 - 23 - 32	41	201	45.8	76.8	5.1 - 6.9 - 9.7	64	74	64	60	84	88
	4'	150	0.019	0.035	3 - 6 - 16	13	71	4.8	8.7	0.8 - 1.8 - 4.8	56	52	38	35	42	47
		260	0.059	0.105	8 - 14 - 25	26	123	14.6	26.2	2.3 - 4.2 - 7.6	60	63	51	47	64	69
		315	0.086	0.154	11 - 17 - 28	30	149	21.4	38.4	3.4 - 5.1 - 8.4	62	67	55	51	71	77
		370	0.118	0.213	13 - 20 - 30	34	175	29.5	53.0	4.0 - 6.0 - 9.1	63	70	59	55	77	83
		480	0.199	0.358	17 - 24 - 34	40	227	49.6	89.2	5.2 - 7.3 - 10.4	65	75	65	60	87	94
1" Slot Width  12" Oval Inlet	2'	100	0.017	0.021	4 - 10 - 25	15	47	4.2	5.1	1.4 - 3.1 - 7.6	53	42	33	33	23	16
		160	0.043	0.053	12 - 20 - 40	26	76	10.8	13.1	3.5 - 6.1 - 12.2	56	52	44	44	41	35
		190	0.061	0.074	16 - 24 - 47	30	90	15.2	18.5	4.8 - 7.3 - 14.2	57	55	48	47	47	42
		220	0.082	0.099	18 - 28 - 50	33	104	20.4	24.7	5.6 - 8.4 - 15.3	58	58	51	50	53	48
		280	0.133	0.161	23 - 35 - 57	39	132	33.0	40.1	7.1 - 10.7 - 17.3	60	63	57	55	62	58
	4'	150	0.016	0.024	4 - 8 - 18	14	71	4.0	6.0	1.1 - 2.4 - 5.4	55	48	35	34	34	33
		250	0.044	0.067	10 - 15 - 25	26	118	11.1	16.7	3.0 - 4.5 - 7.5	58	58	48	45	53	54
		300	0.064	0.097	12 - 18 - 27	30	142	15.9	24.1	3.6 - 5.4 - 8.2	60	62	52	49	60	61
		350	0.087	0.132	14 - 21 - 29	34	165	21.7	32.7	4.2 - 6.3 - 8.8	61	65	55	53	66	67
		450	0.144	0.217	18 - 23 - 33	40	212	35.9	54.1	5.4 - 7.1 - 10.0	63	70	61	58	76	78
	5'	170	0.017	0.027	3 - 7 - 18	13	80	4.2	6.8	1.0 - 2.2 - 5.5	55	49	36	35	37	39
		290	0.049	0.079	10 - 15 - 26	26	137	12.2	19.7	2.9 - 4.7 - 8.1	59	60	49	46	58	60
		350	0.071	0.116	12 - 19 - 29	30	165	17.7	28.8	3.8 - 5.6 - 8.8	60	64	53	50	65	68
		410	0.098	0.159	14 - 22 - 31	34	193	24.3	39.5	4.4 - 6.6 - 9.6	62	67	57	54	71	74
		530	0.163	0.265	19 - 25 - 36	40	250	40.6	66.0	5.7 - 7.7 - 10.9	63	72	63	59	81	84
1" Slot Width  12" Oval Inlet	4'	200	0.019	0.024	6 - 12 - 22	16	94	4.7	6.0	1.9 - 3.6 - 6.7	54	46	36	36	29	25
		320	0.048	0.062	13 - 19 - 28	27	151	12.0	15.4	3.8 - 5.8 - 8.5	57	55	47	46	47	44
		380	0.068	0.087	15 - 21 - 30	31	179	16.9	21.7	4.6 - 6.5 - 9.2	59	58	51	49	54	50
		440	0.091	0.117	17 - 23 - 33	35	208	22.6	29.1	5.3 - 7.0 - 9.9	60	61	54	52	59	56
		560	0.147	0.190	21 - 26 - 37	41	264	36.7	47.2	6.5 - 7.9 - 11.2	61	66	60	58	69	66
	5'	220	0.017	0.024	6 - 12 - 23	15	104	4.3	5.9	1.7 - 3.5 - 7.0	54	47	36	35	31	29
		350	0.043	0.060	12 - 19 - 29	26	165	10.8	14.9	3.8 - 5.6 - 8.8	58	56	46	45	49	47
		415	0.061	0.084	15 - 22 - 32	30	196	15.2	21.0	4.5 - 6.7 - 9.6	59	59	51	49	56	54
		480	0.082	0.113	17 - 24 - 34	33	227	20.3	28.0	5.2 - 7.3 - 10.4	60	62	54	52	61	60
		610	0.132	0.182	22 - 27 - 38	39	288	32.8	45.3	6.6 - 8.3 - 11.7	62	67	60	57	71	70

NOTE: See notes on page F1-26.

**PTBA Performance Data: Horizontal Throw**

IP/METRIC DATA: PTBA, 1" SLOT WIDTH, 4-SLOT, 1-WAY (NO DAMPER)

Linear Length	IP Data				Metric Data											
	Air Flow	Pressure		1-Way Throw	NC	Air Flow	Pressure		1-Way Throw	Octave Band, dB						
		CFM	"WG	"WG			L/s	Pa	Pa	m	2	3	4	5	6	7
1" Slot Width	2'	70	0.012	0.021	1 - 3 - 13	-	33	3.1	5.2	0.4 - 1.0 - 3.9	54	47	32	31	32	35
		140	0.049	0.084	6 - 13 - 30	25	66	12.2	20.9	1.7 - 3.9 - 9.3	59	61	49	46	59	63
		175	0.077	0.131	9 - 19 - 38	30	83	19.1	32.7	2.7 - 5.8 - 11.6	61	65	54	51	68	72
		210	0.110	0.189	13 - 23 - 46	34	99	27.5	47.1	3.9 - 6.9 - 13.9	62	69	58	54	75	79
		280	0.196	0.336	20 - 30 - 57	41	132	48.8	83.7	6.2 - 9.3 - 17.3	64	75	65	61	86	91
	4'	115	0.022	0.046	1 - 3 - 12	-	54	5.5	11.3	0.4 - 0.9 - 3.6	57	54	37	34	47	56
		215	0.077	0.159	5 - 11 - 22	24	101	19.1	39.6	1.5 - 3.3 - 6.7	61	67	52	47	71	81
		265	0.116	0.242	7 - 14 - 25	29	125	29.0	60.2	2.2 - 4.1 - 7.7	63	71	57	52	79	89
		315	0.164	0.342	10 - 16 - 28	33	149	40.9	85.1	3.1 - 4.9 - 8.4	64	74	61	55	86	96
		415	0.285	0.593	14 - 21 - 32	40	196	71.1	147.7	4.3 - 6.5 - 9.6	66	80	68	61	96	107
6" Oval Inlet	5'	125	0.024	0.052	1 - 3 - 10	-	59	5.9	12.8	0.4 - 0.8 - 3.2	57	55	37	33	49	59
		235	0.083	0.182	4 - 9 - 22	23	111	20.8	45.3	1.2 - 2.8 - 6.6	62	68	52	47	73	84
		290	0.127	0.277	6 - 13 - 26	28	137	31.6	69.0	1.9 - 4.0 - 8.1	63	72	57	51	81	93
		345	0.180	0.392	9 - 16 - 29	32	163	44.7	97.7	2.7 - 4.8 - 8.8	64	75	61	55	88	100
		455	0.312	0.682	14 - 21 - 33	39	215	77.8	169.9	4.2 - 6.3 - 10.1	66	81	67	61	98	111
	2'	90	0.012	0.018	2 - 5 - 20	-	42	3.0	4.4	0.7 - 1.6 - 6.0	53	44	32	31	27	26
		170	0.043	0.062	8 - 19 - 37	25	80	10.6	15.6	2.6 - 5.6 - 11.3	58	57	47	45	51	51
		210	0.065	0.095	13 - 23 - 46	30	99	16.2	23.7	3.9 - 6.9 - 13.9	60	61	52	49	60	60
		250	0.092	0.135	18 - 27 - 54	35	118	22.9	33.6	5.5 - 8.3 - 16.3	61	65	56	53	66	67
		330	0.160	0.235	24 - 36 - 62	41	156	39.9	58.6	7.3 - 10.9 - 18.7	63	70	62	59	77	78
8" Oval Inlet	4'	140	0.016	0.030	2 - 5 - 14	-	66	4.0	7.4	0.6 - 1.4 - 4.4	55	50	35	33	39	44
		260	0.056	0.103	7 - 13 - 25	25	123	14.0	25.6	2.1 - 4.1 - 7.6	60	63	50	46	63	69
		320	0.085	0.156	11 - 16 - 28	30	151	21.1	38.7	3.2 - 5.0 - 8.5	62	67	55	51	71	77
		380	0.120	0.219	13 - 20 - 30	34	179	29.8	54.6	4.0 - 5.9 - 9.2	63	70	59	55	78	84
		500	0.207	0.380	17 - 25 - 35	40	236	51.6	94.5	5.2 - 7.5 - 10.6	65	76	65	60	88	95
	5'	160	0.019	0.036	2 - 4 - 15	-	76	4.6	9.0	0.6 - 1.3 - 4.5	56	52	36	34	43	49
		300	0.065	0.127	7 - 14 - 27	25	142	16.3	31.7	2.0 - 4.2 - 8.2	61	65	51	47	67	75
		370	0.099	0.194	10 - 17 - 30	30	175	24.7	48.2	3.1 - 5.2 - 9.1	62	69	56	51	75	83
		440	0.141	0.274	13 - 20 - 33	34	208	35.0	68.2	4.1 - 6.1 - 9.9	63	72	60	55	82	90
		580	0.244	0.476	18 - 26 - 37	40	274	60.8	118.5	5.4 - 8.1 - 11.4	66	78	67	61	93	101
1" Slot Width	2'	100	0.011	0.015	3 - 7 - 22	-	47	2.8	3.7	0.9 - 2.0 - 6.6	52	41	30	30	21	17
		190	0.041	0.054	11 - 21 - 41	25	90	10.1	13.3	3.2 - 6.3 - 12.6	57	54	45	44	46	43
		235	0.062	0.082	16 - 26 - 51	30	111	15.4	20.4	4.9 - 7.8 - 15.6	59	58	50	49	54	51
		280	0.088	0.116	20 - 30 - 57	34	132	21.9	29.0	6.2 - 9.3 - 17.3	60	62	54	52	60	58
		370	0.154	0.203	27 - 40 - 65	41	175	38.3	50.6	8.2 - 12.2 - 19.8	62	67	61	58	71	69
	4'	160	0.014	0.023	3 - 6 - 16	-	76	3.5	5.8	0.8 - 1.8 - 5.0	55	48	34	33	34	36
		300	0.050	0.082	9 - 15 - 27	26	142	12.3	20.5	2.8 - 4.7 - 8.2	59	61	49	46	58	61
		370	0.075	0.125	13 - 19 - 30	31	175	18.8	31.1	3.8 - 5.8 - 9.1	61	65	54	51	67	70
		440	0.107	0.177	15 - 23 - 33	35	208	26.5	44.0	4.6 - 6.9 - 9.9	62	68	58	54	73	77
		580	0.185	0.307	20 - 26 - 37	41	274	46.1	76.5	6.0 - 8.1 - 11.4	64	74	65	60	84	88
10" Oval Inlet	5'	180	0.015	0.027	2 - 5 - 17	-	85	3.8	6.7	0.7 - 1.6 - 5.0	55	49	35	33	37	41
		340	0.054	0.096	9 - 16 - 29	25	160	13.4	23.8	2.6 - 4.7 - 8.7	60	62	50	46	62	67
		420	0.082	0.146	13 - 19 - 32	30	198	20.5	36.4	3.9 - 5.9 - 9.7	61	66	55	51	70	75
		500	0.116	0.207	15 - 23 - 35	34	236	29.0	51.6	4.7 - 7.0 - 10.6	63	70	59	55	77	82
		660	0.203	0.361	20 - 28 - 40	41	311	50.5	89.8	6.1 - 8.6 - 12.1	65	75	65	61	87	93
	4'	200	0.013	0.019	4 - 9 - 21	12	94	3.3	4.6	1.3 - 2.8 - 6.2	53	44	33	32	27	25
		360	0.043	0.060	12 - 18 - 30	26	170	10.6	15.0	3.7 - 5.6 - 9.0	58	56	47	45	50	49
		440	0.064	0.090	15 - 23 - 33	30	208	15.8	22.3	4.6 - 6.9 - 9.9	59	60	51	49	57	57
		520	0.089	0.125	18 - 25 - 35	34	245	22.1	31.2	5.4 - 7.6 - 10.8	60	64	55	53	64	63
		680	0.152	0.214	23 - 29 - 41	41	321	37.8	53.4	7.1 - 8.7 - 12.3	62	69	62	59	74	74
12" Oval Inlet	5'	225	0.013	0.020	4 - 8 - 21	11	106	3.3	5.0	1.1 - 2.6 - 6.3	54	46	33	32	30	30
		405	0.043	0.065	12 - 19 - 31	25	191	10.6	16.1	3.7 - 5.7 - 9.5	58	58	47	45	53	53
		495	0.064	0.097	15 - 23 - 35	30	234	15.9	24.1	4.6 - 6.9 - 10.5	60	62	52	49	61	61
		585	0.089	0.135	18 - 27 - 38	34	276	22.2	33.7	5.4 - 8.1 - 11.4	61	65	56	53	67	68
		765	0.152	0.231	23 - 30 - 43	40	361	37.9	57.6	7.1 - 9.2 - 13.1	63	70	62	59	77	79

NOTE: See notes on page F1-26.