

PTBA Performance Data: Horizontal Throw

IP/METRIC DATA: PTBA, 3/4" SLOT WIDTH, 4-SLOT, 1-WAY (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										
			Ps	Pt				ft	L/s		Pa	Pa	m	2	3	4	5	6	7	
CFM	"WG	"WG																		
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					
	4'	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	-				
	5'	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				
		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	-				
8' Oval Inlet	2'	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				
		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	-				
	4'	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				
		140	0.016	0.030	3 - 7 - 17	12	66	4.0	7.4	0.9 - 2.1 - 5.0	31	21	-	-	-	-				
	5'	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				
10" Oval Inlet	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	-				
	4'	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				
		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				
12" Oval Inlet	4'	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				
	5'	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				
		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				

NOTE: See notes on page F1-26.

P T B A

© KRUEGER 2012

PTBA Performance Data: Horizontal Throw

IP/METRIC DATA: PTBA, 1" SLOT WIDTH, 2-SLOT, 1-WAY (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'	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	
	4'	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	
	6" Oval Inlet	5'	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
			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
1" Slot Width	2'	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	
	4'	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	
	8" Oval Inlet	5'	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
			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
1" Slot Width	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	52	50	42	
	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	
	10" Oval Inlet	5'	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
			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
1" Slot Width	4'	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	
		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	
	12" Oval Inlet	5'	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
			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
	5'	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

© KRUEGER 2012

PTBA Performance Data: Horizontal Throw

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

PLENUM SLOT DIFFUSERS

Table with columns: Linear Length, IP Data (Air Flow, Pressure, 1-Way Throw), Metric Data (Air Flow, Pressure, 1-Way Throw), Octave Band, dB. Rows include 1" Slot Width, 6" Oval Inlet, 8" Oval Inlet, 10" Oval Inlet, and 12" Oval Inlet configurations.

NOTE: See notes on page F1-26.

© KRUEGER 2012

P T B A