

SERIES PHP PERFORMANCE DATA

MODEL PHPS/PHPSI ONE SLOT

			CFM/LF	10	15	25	40	60	75	90	120
1/2" Slot Width	2' Length 6" Inlet	Horizontal	CFM	20	30	50	80	120	150	180	240
			Ps	.010	.023	.064	.163	.367	.574	.826	1.469
			Pt	.011	.024	.068	.174	.390	.610	.879	1.562
			Throw	2-3-6	3-5-6	5-7-10	7-9-12	9-11-15	10-12-17	11-13-19	12-15-22
		Vertical	NC	<10	<10	17	29	39	43	47	56
			Ps	.013	.029	.082	.209	.471	.736	1.060	1.885
			Pt	.014	.031	.086	.220	.495	.773	1.113	1.978
			Throw	1-1-3	1-2-4	2-3-7	4-5-11	5-8-16	7-10-20	8-12-24	11-16-32
	4' Length 6" Inlet	Horizontal	NC	<10	<10	15	29	38	42	45	52
			CFM	40	60	100	160	240	300	360	-
			Ps	.010	.023	.063	.160	.360	.563	.810	-
			Pt	.013	.028	.079	.201	.453	.708	1.020	-
		Vertical	Throw	2-3-7	3-5-10	6-8-14	9-12-18	12-15-22	14-17-24	15-19-26	-
			NC	<10	<10	20	32	42	46	50	-
			Ps	.013	.029	.080	.205	.462	.722	1.039	-
			Pt	.015	.035	.096	.247	.555	.867	1.249	-
	5' Length 8" Inlet	Horizontal	Throw	2-3-5	3-4-8	4-6-13	7-10-20	10-15-30	13-19-38	15-23-46	-
			NC	<10	<10	18	32	41	45	48	-
			CFM	50	75	125	200	300	375	450	-
			Ps	.010	.022	.061	.157	.353	.551	.794	-
		Vertical	Pt	.011	.025	.070	.180	.405	.633	.912	-
			Throw	3-4-8	4-6-12	7-11-16	11-14-20	14-17-24	16-19-27	17-21-29	-
			NC	<10	11	22	34	44	48	52	-
			Ps	.013	.028	.079	.201	.453	.707	1.018	-
3/4" Slot Width	2' Length 8" Inlet	Horizontal	Pt	.014	.032	.088	.224	.505	.789	1.136	-
			Throw	2-3-7	3-5-10	5-8-16	9-13-26	13-20-40	16-25-49	20-30-59	-
			NC	<10	12	26	39	46	50	55	-
			CFM	20	30	50	80	120	150	180	240
		Vertical	Ps	.007	.015	.041	.104	.235	.367	.528	.939
			Pt	.007	.015	.042	.108	.243	.380	.973	-
			Throw	2-3-5	3-4-7	4-6-8	7-8-12	8-10-14	9-11-16	10-12-17	12-14-20
			NC	<10	<10	<10	23	32	37	40	47
	4' Length 8" Inlet	Horizontal	Ps	.008	.017	.048	.123	.277	.433	.623	1.108
			Pt	.008	.018	.050	.127	.285	.446	.642	1.141
			Throw	1-1-2	1-2-3	2-3-5	3-4-9	4-7-13	5-8-16	7-10-20	9-13-26
			NC	<10	<10	<10	24	36	41	45	54
		Vertical	CFM	40	60	100	160	240	300	360	-
			Ps	.006	.014	.040	.102	.230	.360	.518	-
			Pt	.007	.016	.046	.117	.264	.412	.593	-
			Throw	2-3-6	3-4-8	5-7-13	7-11-16	11-14-20	13-16-22	14-17-25	-
	5' Length 8" Inlet	Horizontal	NC	<10	<10	15	26	35	40	43	-
			Ps	.008	.017	.047	.121	.272	.424	.611	-
			Pt	.008	.019	.053	.136	.305	.477	.686	-
			Throw	1-2-4	2-3-6	3-5-10	6-8-17	8-12-25	10-15-31	12-19-37	-
		Vertical	NC	<10	12	27	39	44	48	-	-
			CFM	50	75	125	200	300	375	450	-
			Ps	.006	.014	.039	.100	.226	.353	.508	-
			Pt	.08	.017	.048	.124	.278	.434	.626	-
5' Length 8" Inlet	Horizontal	Throw	2-4-7	4-6-11	6-9-14	10-13-18	13-16-22	14-18-25	16-19-27	-	
		NC	<10	<10	17	28	37	42	45	-	
		Ps	.007	.017	.046	.118	.266	.416	.599	-	
		Pt	.009	.020	.055	.142	.319	.498	.717	-	
	Vertical	Throw	2-3-5	3-4-8	4-7-13	7-11-22	11-16-32	13-20-40	16-24-48	-	
		NC	<10	<10	14	29	41	46	50	-	

SERIES PHP PERFORMANCE DATA

MODEL PHPS/PHPSI ONE SLOT

			CFM/LF	10	15	25	40	60	75	90	120	160	
1" Slot Width	2' Length 8" Inlet	Horizontal	CFM	20	30	50	80	120	150	180	240	320	
			Ps	.005	.010	.028	.073	.163	.255	.368	.654	1.162	
			Pt	.005	.011	.030	.076	.172	.268	.387	.687	1.222	
			Throw	3-4-6	4-5-7	5-6-9	6-8-11	8-10-14	9-11-15	10-12-17	11-14-19	13-16-23	
			NC	<10	<10	10	23	32	36	39	44	53	
		Vertical	Ps	.007	.016	.044	.113	.254	.396	.571	1.015	1.804	
			Pt	.007	.016	.046	.116	.262	.410	.590	1.048	1.864	
			Throw	0-1-1	1-1-2	1-2-4	2-3-6	3-4-9	4-5-11	4-7-13	6-9-18	8-12-23	
	4' Length 8" Inlet	Horizontal	NC	<10	<10	<10	22	35	40	43	47	55	
			CFM	40	60	100	160	240	300	360	480	-	
			Ps	.004	.010	.028	.071	.160	.250	.361	.641	-	
			Pt	.005	.012	.034	.086	.194	.303	.436	.775	-	
			Throw	1-2-4	2-3-7	4-5-11	6-9-16	9-13-19	11-15-22	13-17-24	16-19-28	-	
		Vertical	NC	<10	<10	13	26	35	39	42	47	-	
			Ps	.007	.016	.043	.111	.249	.389	.560	.995	-	
			Pt	.008	.018	.049	.125	.282	.441	.635	1.129	-	
	5' Length 10" Inlet	Horizontal	Throw	1-2-3	2-2-5	3-4-8	4-6-13	6-10-19	8-12-24	10-14-29	13-19-38	-	
			NC	<10	<10	<10	25	38	43	46	50	-	
			Vertical	CFM	50	75	125	200	300	375	450	600	-
				Ps	.004	.010	.027	.070	.157	.245	.353	.628	-
				Pt	.005	.011	.032	.082	.184	.287	.413	.735	-
		Vertical	Throw	5-6-9	6-8-11	8-10-14	10-13-18	13-15-22	14-17-24	15-19-27	18-22-31	-	
			NC	<10	<10	15	28	37	41	44	49	-	
			Ps	.007	.015	.042	.108	.244	.381	.549	.975	-	
1 1/2" Slot Width	2' Length 8" Inlet	Horizontal	Pt	.008	.017	.047	.120	.271	.423	.609	1.082	-	
			Throw	1-2-4	2-3-7	4-5-11	6-9-18	9-13-26	11-16-33	13-20-39	18-26-53	-	
			NC	<10	<10	11	27	40	45	48	52	-	
			Vertical	CFM	20	30	50	80	120	150	180	240	320
				Ps	.004	.010	.027	.069	.155	.242	.349	.620	1.102
		Pt		.005	.010	.028	.073	.163	.255	.368	.654	1.162	
		4' Length 8" Inlet	Horizontal	Throw	1-2-3	2-2-5	3-4-8	4-6-11	6-9-13	8-10-15	9-11-16	11-13-18	12-15-21
				NC	<10	<10	<10	13	22	29	34	42	50
	Vertical			Ps	.003	.007	.020	.052	.117	.183	.263	.468	.831
				Pt	.003	.008	.022	.056	.125	.196	.282	.501	.891
				Throw	0-1-1	1-1-2	1-1-3	1-2-4	2-3-7	3-4-8	3-5-10	4-7-13	6-9-17
	5' Length 10" Inlet		Horizontal	NC	<10	<10	<10	<10	19	25	30	37	45
				CFM	40	60	100	160	240	300	360	480	640
				Ps	.004	.009	.026	.068	.152	.237	.342	.608	1.081
		Pt		.005	.012	.032	.082	.186	.290	.417	.742	1.319	
		Throw		2-2-5	2-3-7	4-6-12	6-9-15	9-13-18	12-15-21	13-16-23	15-18-26	17-21-30	
		Vertical	NC	<10	<10	<10	16	25	32	37	45	53	
			Ps	.003	.007	.020	.051	.115	.179	.258	.458	.815	
			Pt	.004	.009	.026	.066	.148	.231	.333	.593	1.054	
	5' Length 10" Inlet	Horizontal	Throw	1-1-2	1-2-4	2-3-6	3-5-10	5-7-14	6-9-18	7-11-21	10-14-29	13-19-38	
			NC	<10	<10	<10	12	22	28	33	40	48	
			Vertical	CFM	50	75	125	200	300	375	450	600	800
				Ps	.004	.009	.026	.066	.149	.233	.335	.596	1.059
				Pt	.005	.011	.031	.078	.176	.275	.395	.703	1.249
Vertical		Throw	3-4-8	4-6-10	7-9-13	10-12-17	12-15-21	13-16-23	15-18-25	17-21-29	19-24-34		
		NC	<10	<10	<10	18	27	34	39	47	55		
		Ps	.003	.007	.020	.050	.112	.176	.253	.449	.799		

PLENUM SLOT
DIFFUSERS

PLENUM DIFFUSERS WITH
ADJUSTABLE PATTERN
CONTROLLERS

PHPS

SERIES PHP PERFORMANCE DATA

MODEL PHPS/PHPSI TWO SLOT

			CFM/LF	10	15	25	40	60	75	90	120	160
1/2" Slot Width	2' Length 8" Inlet	Horizontal	CFM	20	30	50	80	120	150	180	240	320
			Ps	.005	.012	.032	.083	.186	.291	.419	.745	1.324
			Pt	.005	.012	.034	.086	.195	.304	.438	.778	1.383
			Throw	1-2-3	2-2-5	3-4-8	4-6-12	6-9-17	8-12-19	9-14-21	13-17-24	16-20-28
		Vertical	NC	<10.	<10.	<10.	15	26	32	37	43	51
			Ps	.005	.011	.029	.075	.169	.264	.380	.675	1.200
			Pt	.005	.011	.031	.079	.177	.277	.398	.708	1.259
			Throw	0-0-2	0-1-3	1-2-6	3-5-9	5-7-14	6-9-17	7-10-21	9-14-28	12-19-37
	4' Length 8" Inlet	Horizontal	NC	<10.	<10.	<10.	14	26	33	37	44	51
			CFM	40	60	10	160	240	300	360	480	640
			Ps	.005	.011	.032	.081	.183	.285	.411	.730	1.298
			Pt	.006	.014	.038	.096	.216	.338	.486	.864	1.536
		Vertical	Throw	1-2-4	2-3-7	4-5-11	6-9-18	9-13-24	11-16-27	13-20-30	18-24-34	23-28-39
			NC	<10.	<10.	<10.	18	29	35	40	46	54
			Ps	.005	.010	.029	.074	.165	.258	.372	.662	1.176
			Pt	.006	.012	.035	.088	.199	.311	.446	.796	1.415
3/4" Slot Width	2' Length 8" Inlet	Horizontal	Throw	0-1-2	1-1-5	2-3-8	4-7-13	7-10-20	8-12-24	10-15-29	13-20-39	17-26-52
			NC	<10.	<10.	<10.	17	29	36	40	47	54
		Vertical	CFM	50	75	125	200	300	375	450	600	800
			Ps	.005	.011	.031	.079	.179	.279	.402	.715	1.272
			Pt	.006	.013	.036	.091	.206	.321	.463	.822	1.462
			Throw	2-3-6	3-4-8	4-6-13	7-10-21	10-16-27	13-19-30	16-23-33	21-27-38	25-31-44
		Vertical	NC	<10.	<10.	<10.	20	31	37	42	48	56
			Ps	.005	.010	.028	.072	.162	.253	.365	.648	1.153
	4' Length 8" Inlet	Horizontal	Pt	.005	.012	.033	.084	.189	.295	.425	.755	1.343
			Throw	0-1-3	1-2-6	2-5-10	5-8-16	8-12-24	10-15-31	12-18-37	16-24-49	22-33-65
			NC	<10.	<10.	<10.	19	31	38	42	49	56
		Vertical	CFM	20	30	50	80	120	150	180	240	320
			Ps	.004	.008	.023	.059	.133	.208	.299	.532	.946
			Pt	.004	.009	.025	.063	.141	.221	.318	.565	1.005
			Throw	1-2-3	2-2-5	3-4-8	4-6-12	6-9-17	8-11-19	9-14-21	12-17-24	16-20-28
	5' Length 10" Inlet	Horizontal	NC	<10.	<10.	<10.	<10.	20	26	31	38	44
			Ps	.003	.008	.021	.054	.122	.191	.275	.490	.871
			Pt	.004	.008	.023	.058	.131	.204	.294	.523	.930
			Throw	0-0-2	0-1-3	1-2-6	3-5-9	5-7-14	6-9-17	7-10-21	9-14-27	12-18-37
		Vertical	NC	<10.	<10.	<10.	<10.	17	26	31	37	42
			CFM	40	60	100	160	240	300	360	480	640
			Ps	.004	.008	.023	.058	.130	.204	.293	.521	.927
			Pt	.005	.010	.028	.073	.164	.256	.369	.656	1.165
3/4" Slot Width	2' Length 8" Inlet	Horizontal	Throw	2-3-5	3-4-8	4-7-13	7-11-20	11-16-24	13-19-27	16-21-30	20-24-34	23-28-39
			NC	<10.	<10.	<10.	14	23	29	34	41	47
		Vertical	Ps	.003	.008	.021	.053	.120	.188	.270	.480	.854
			Pt	.004	.010	.027	.068	.154	.240	.346	.614	1.092
			Throw	0-1-2	1-1-5	1-3-8	4-6-13	6-10-19	8-12-24	10-14-29	13-19-38	17-25-51
			NC	<10.	<10.	<10.	<10.	20	29	34	40	45
	4' Length 8" Inlet	Horizontal	CFM	50	75	125	200	300	375	450	600	800
			Ps	.003	.008	.022	.056	.125	.196	.282	.501	.890
			Pt	.004	.009	.026	.067	.152	.237	.342	.607	1.080
			Throw	2-3-5	3-4-8	4-6-13	7-10-21	10-15-27	13-19-30	15-21-33	21-27-38	25-31-44
		Vertical	NC	<10.	<10.	<10.	16	25	31	36	43	49
			Ps	.003	.007	.020	.051	.115	.180	.259	.461	.819
			Pt	.004	.009	.025	.063	.142	.222	.319	.568	1.009
			Throw	0-1-3	1-2-6	2-5-10	5-8-15	8-12-23	10-15-29	12-17-35	15-23-46	21-31-62
	5' Length 10" Inlet	Horizontal	NC	<10.	<10.	<10.	<10.	22	31	36	42	47
			CFM	50	75	125	200	300	375	450	600	800
			Ps	.003	.008	.022	.056	.125	.196	.282	.501	.890
			Pt	.004	.009	.026	.067	.152	.237	.342	.607	1.080
		Vertical	Throw	2-3-5	3-4-8	4-6-13	7-10-21	10-15-27	13-19-30	15-21-33	21-27-38	25-31-44
			NC	<10.	<10.	<10.	16	25	31	36	43	49
			Ps	.003	.007	.020	.051	.115	.180	.259	.461	.819
			Pt	.004	.009	.025	.063	.142	.222	.319	.568	1.009

SERIES PHP PERFORMANCE DATA

MODEL PHPS/PHPSI TWO SLOT

			CFM/LF	10	15	25	40	60	75	90	120	160
1" Slot Width	2' Length 8" Inlet	Horizontal	CFM	20	30	50	80	120	150	180	240	320
			Ps	.002	.005	.014	.035	.080	.124	.179	.318	.566
			Pt	.002	.005	.015	.039	.088	.137	.198	.352	.626
			Throw	1-1-3	1-2-4	2-4-7	4-6-12	6-9-17	7-11-19	9-13-21	12-17-24	15-20-28
		Vertical	NC	<10	<10	<10	<10	17	24	29	35	40
			Ps	.002	.005	.013	.034	.077	.120	.172	.306	.545
			Pt	.002	.005	.015	.038	.085	.133	.191	.340	.604
			Throw	0-0-1	0-0-2	0-1-4	1-3-6	3-5-9	4-6-12	5-7-14	6-9-19	8-12-25
	4' Length 8" Inlet	Horizontal	NC	<10	<10	<10	<10	16	24	30	37	42
			CFM	40	60	100	160	240	300	360	480	640
			Ps	.002	.005	.014	.035	.078	.122	.176	.312	.555
			Pt	.003	.007	.019	.050	.112	.174	.251	.446	.793
		Vertical	Throw	1-2-4	2-3-6	4-5-11	6-9-17	9-13-24	11-16-27	13-19-30	17-24-34	23-28-39
			NC	<10	<10	<10	<10	20	27	32	38	43
			Ps	.002	.005	.013	.033	.075	.117	.169	.300	.534
			Pt	.003	.007	.019	.048	.109	.170	.244	.435	.772
	5' Length 10" Inlet	Horizontal	Throw	0-0-1	0-1-2	1-2-5	2-4-9	4-7-13	5-8-16	7-10-20	9-13-26	12-18-35
			NC	<10	<10	<10	<10	19	27	33	40	45
			CFM	50	75	125	200	300	375	450	600	800
			Ps	.002	.005	.013	.034	.076	.118	.170	.300	.538
		Vertical	Pt	.003	.006	.018	.046	.102	.160	.230	.410	.728
			Throw	2-2-5	2-4-7	4-6-12	7-10-20	10-15-27	12-18-30	15-22-33	20-27-38	25-31-44
			NC	<10	<10	<10	11	22	29	34	40	45
			Ps	.002	.005	.013	.032	.073	.114	.164	.291	.518
1 1/2" Slot Width	2' Length 8" Inlet	Horizontal	Pt	.003	.006	.018	.044	.100	.156	.224	.398	.708
			Throw	0-0-1	0-1-3	1-2-7	3-5-11	5-8-16	7-10-20	8-12-24	11-16-32	14-21-43
			NC	<10	<10	<10	<10	21	29	35	42	47
			Vertical	CFM	20	30	50	80	120	150	180	240
		Ps		.001	.002	.007	.018	.040	.062	.089	.159	.282
		Pt		.001	.003	.008	.021	.048	.075	.108	.192	.342
		Throw		1-1-3	1-2-4	2-3-7	4-5-11	5-8-16	7-10-19	8-12-21	11-16-24	14-20-28
		4' Length 10" Inlet	Horizontal	NC	<10	<10	<10	<10	12	17	21	29
	Ps			.001	.002	.006	.014	.033	.051	.073	.130	.232
	Pt			.001	.003	.007	.018	.041	.064	.092	.164	.291
	Throw			0-0-0	0-0-1	0-0-2	1-1-4	1-3-7	2-4-8	3-5-10	4-7-13	6-9-18
	Vertical		NC	<10	<10	<10	<10	<10	10	15	23	30
			CFM	40	60	100	160	240	300	360	480	640
			Ps	.001	.002	.007	.017	.039	.060	.087	.154	.274
			Pt	.002	.003	.010	.025	.056	.087	.125	.223	.396
	5' Length 12" Inlet	Horizontal	Throw	2-2-5	2-3-7	4-6-12	6-9-19	9-14-24	12-17-27	14-21-30	19-24-34	23-28-39
			NC	<10	<10	<10	<10	15	20	24	32	40
			Ps	.001	.002	.005	.014	.032	.049	.071	.127	.225
			Pt	.001	.003	.008	.022	.049	.076	.110	.195	.347
		Vertical	Throw	0-0-0	0-0-1	0-1-2	1-1-6	1-3-9	2-5-11	3-7-14	6-9-18	8-12-20
			NC	<10	<10	<10	<10	<10	13	18	26	33
			CFM	50	75	125	200	300	375	450	600	800
			Ps	.001	.002	.006	.016	.037	.058	.083	.148	.263

PLENUM SLOT
DIFFUSERS

PLENUM DIFFUSERS WITH
ADJUSTABLE PATTERN
CONTROLLERS

PHPS

SERIES PHP PERFORMANCE DATA

MODEL PHPS/PHPSI THREE SLOT

			CFM/LF	10	15	25	40	60	75	90	120	250
1/2" Slot Width	2' Length 8" Inlet	Horizontal	CFM	50	80	120	160	200	240	320	400	500
			Ps	.012	.030	.068	.121	.188	.271	.483	.754	1.178
			Pt	.013	.034	.076	.136	.212	.305	.542	.847	1.324
			Throw	4-6-12	6-9-15	9-13-19	12-15-21	14-17-24	15-19-26	18-21-30	20-24-34	22-27-38
			NC	<10	<10	16	23	29	34	41	48	55
		Vertical	Ps	.009	.023	.052	.092	.144	.207	.368	.576	.900
			Pt	.010	.027	.060	.107	.167	.241	.428	.669	1.045
			Throw	0-1-3	1-2-7	2-4-11	3-7-15	5-9-18	7-11-21	10-15-25	12-18-27	15-22-31
			NC	<10	<10	11	20	26	31	36	40	46
		4' Length 8" Inlet	CFM	100	160	240	320	400	480	640	800	1000
			Ps	.012	.030	.067	.118	.185	.266	.473	.739	1.155
			Pt	.017	.044	.100	.178	.278	.400	.712	1.112	1.737
			Throw	4-6-12	6-9-19	9-14-26	13-19--30	16-24-34	19-26-37	25-30-43	28-34-48	31-38-54
			NC	<10	11	19	26	32	37	44	51	58
			Ps	.009	.023	.051	.090	.141	.203	.361	.564	.882
			Pt	.015	.037	.084	.150	.234	.337	.600	.937	1.464
			Throw	0-1-4	1-3-10	3-6-15	4-10-21	7-13-26	10-15-30	14-21-35	17-26-39	21-31-43
			NC	<10	<10	14	23	29	34	39	43	49
	5' Length 10" Inlet	Horizontal	CFM	125	200	300	400	500	600	800	1000	1250
			Ps	.011	.029	.065	.116	.181	.261	.464	.724	1.132
			Pt	.016	.041	.092	.163	.255	.368	.654	1.021	1.596
			Throw	4-6-13	7-10-20	10-15-29	13-20-34	17-25-38	20-29-42	27-34-48	31-38-54	35-42-60
			NC	<10	13	21	28	34	39	46	53	60
		Vertical	Ps	.009	.022	.050	.089	.138	.199	.354	.553	.864
			Pt	.013	.034	.077	.136	.213	.306	.544	.850	1.328
			Throw	1-1-5	1-3-12	3-7-18	6-12-24	9-15-30	12-18-34	16-24-39	21-31-43	25-34-49
			NC	<10	<10	16	25	31	36	41	45	51
3/4" Slot Width	2' Length 8" Inlet	Horizontal	CFM	50	80	120	160	200	240	320	400	500
			Ps	.008	.022	.049	.087	.135	.195	.346	.541	.845
			Pt	.010	.025	.057	.101	.159	.228	.406	.634	.991
			Throw	3-5-9	5-8-15	8-11-19	10-15-21	13-17-24	15-19-26	18-21-30	20-24-34	22-27-38
			NC	<10	<10	<10	18	23	27	34	40	45
		Vertical	Ps	.006	.016	.037	.066	.103	.148	.263	.411	.643
			Pt	.008	.020	.045	.081	.126	.182	.323	.504	.788
			Throw	0-0-2	1-1-5	1-3-9	2-5-13	3-7-16	5-9-19	8-13-25	10-16-27	13-20-31
			NC	<10	<10	<10	18	26	33	41	47	53
	4' Length 10" Inlet	Horizontal	CFM	100	160	240	320	400	480	640	800	1000
			Ps	.008	.021	.048	.085	.133	.191	.339	.530	.829
			Pt	.011	.029	.065	.115	.180	.259	.461	.720	1.126
			Throw	5-7-15	8-12-21	12-18-26	16-21-30	10-24-34	21-26-37	25-30-43	28-34-48	31-38-54
			NC	<10	<10	15	21	26	30	37	43	48
		Vertical	Ps	.006	.016	.036	.065	.101	.145	.258	.403	.630
			Pt	.009	.024	.053	.095	.148	.214	.380	.593	.927
			Throw	1-2-7	2-5-13	5-10-19	8-13-25	11-16-27	13-19-30	17-25-35	21-27-39	25-31-43
			NC	<10	<10	11	21	29	36	44	50	56
	5' Length 10" Inlet	Horizontal	CFM	125	200	300	400	500	600	800	1000	1250
			Ps	.008	.021	.047	.083	.130	.187	.333	.520	.812
			Pt	.013	.033	.074	.131	.204	.294	.523	.817	1.276
			Throw	6-8-17	9-13-24	13-20-29	18-24-34	22-27-38	24-29-42	28-34-48	31-38-54	35-42-60
			NC	<10	10	17	23	28	32	39	45	50
		Vertical	Ps	.006	.016	.036	.063	.099	.142	.253	.395	.617
			Pt	.011	.028	.062	.111	.173	.249	.443	.692	1.081
			Throw	1-3-10	3-7-16	7-12-23	10-16-27	13-19-31	16-23-34	21-27-39	25-31-43	28-34-49
			NC	<10	<10	13	23	31	38	46	52	58

SERIES PHP PERFORMANCE DATA

MODEL PHPS/PHPSI THREE SLOT

			CFM/LF	10	15	25	40	60	75	90	120	250	
1" Slot Width	2' Length 10" Inlet	Horizontal	CFM	50	80	120	160	200	240	320	400	500	
			Ps	.005	.013	.029	.052	.081	.117	.208	.325	.507	
			Pt	.006	.015	.033	.060	.093	.134	.238	.372	.581	
			Throw	3-4-8	4-7-13	7-10-19	9-13-21	11-16-24	13-19-26	17-21-30	20-24-34	22-27-38	
		Vertical	NC	<10	<10	<10	17	25	31	39	46	54	
			Ps	.004	.010	.022	.039	.062	.089	.158	.247	.386	
			Pt	.005	.012	.026	.047	.074	.106	.188	.294	.460	
			Throw	0-0-2	0-1-4	1-2-7	2-4-9	3-6-11	4-7-14	6-9-18	8-11-23	10-14-29	
	4' Length 10" Inlet	Horizontal	NC	<10	<10	<10	14	21	27	35	41	45	
			CFM	100	160	240	320	400	480	640	800	1000	
			Ps	.005	.013	.029	.051	.080	.115	.204	.318	.497	
			Pt	.008	.020	.046	.081	.127	.183	.325	.508	.794	
		Vertical	Throw	3-5-10	5-8-16	8-12-24	11-16-30	13-20-34	16-24-37	21-30-43	27-34-48	31-38-54	
			NC	<10	<10	11	20	28	34	42	49	57	
			Ps	.004	.010	.022	.039	.060	.087	.155	.242	.378	
			Pt	.007	.017	.039	.069	.108	.156	.276	.432	.675	
	5' Length 12" Inlet	Horizontal	Throw	0-1-3	1-2-7	2-4-11	3-7-14	5-9-18	7-11-21	9-14-28	12-18-36	15-22-43	
			NC	<10	<10	<10	17	24	30	38	44	48	
			Vertical	CFM	125	200	300	400	500	600	800	1000	1250
				Ps	.005	.012	.028	.050	.078	.112	.200	.312	.487
		Pt		.008	.020	.044	.079	.123	.177	.315	.492	.768	
		Throw		4-6-11	6-9-18	9-13-26	12-18-34	15-22-38	18-26-42	24-34-48	29-38-54	35-42-60	
		NC	<10	<10	13	22	30	36	44	51	59		
		Ps	.004	.009	.021	.038	.059	.085	.152	.237	.370		
Pt	.007	.017	.038	.067	.104	.150	.267	.417	.651				
Throw	1-1-5	1-3-9	3-7-14	6-9-19	8-12-24	9-14-28	13-19-38	16-24-43	20-29-49				
NC	<10	<10	12	19	26	32	40	46	50				
1 1/2" Slot Width	2' Length 10" Inlet	Horizontal	CFM	50	80	120	160	200	240	320	400	500	
			Ps	.003	.006	.015	.026	.041	.058	.104	.162	.254	
			Pt	.003	.008	.019	.034	.052	.076	.134	.210	.328	
			Throw	2-3-6	3-5-10	5-7-15	7-10-20	8-12-24	10-15-26	13-20-30	16-24-34	21-27-38	
		Vertical	NC	<10	<10	<10	11	15	19	27	33	40	
			Ps	.002	.005	.011	.020	.031	.044	.079	.123	.193	
			Pt	.003	.007	.015	.027	.043	.062	.109	.171	.267	
			Throw	0-0-1	0-1-3	1-2-4	1-3-6	2-4-7	3-4-9	4-6-12	5-7-15	6-9-10	
	4' Length 12" Inlet	Horizontal	NC	<10	<10	<10	<10	<10	<10	16	20	24	
			CFM	100	160	240	320	400	480	640	800	1000	
			Ps	.002	.006	.014	.025	.040	.057	.102	.159	.249	
			Pt	.004	.011	.025	.044	.069	.099	.175	.274	.428	
		Vertical	Throw	2-3-7	4-5-11	5-8-16	7-11-22	9-14-27	11-16-32	14-22-43	18-27-48	23-34-50	
			NC	<10	<10	<10	14	18	22	30	36	43	
			Ps	.002	.005	.011	.019	.030	.044	.077	.121	.189	
			Pt	.004	.009	.021	.038	.059	.085	.151	.236	.369	
	5' Length 12" Inlet	Horizontal	Throw	0-0-2	1-1-4	1-3-6	2-4-9	3-5-11	4-6-13	6-9-17	7-11-22	9-14-27	
			NC	<10	<10	<10	<10	<10	13	19	23	27	
			Vertical	CFM	125	200	300	400	500	600	800	1000	1250
				Ps	.002	.006	.014	.025	.039	.056	.100	.156	.244
		Pt		.005	.013	.030	.054	.084	.121	.215	.336	.524	
		Throw		3-4-9	5-7-14	7-11-22	10-14-29	12-18-36	14-22-42	19-29-48	24-36-54	30-42-60	
		NC	<10	<10	12	16	20	24	32	38	45		
		Ps	.002	.005	.011	.019	.030	.043	.076	.119	.185		
Pt	.005	.012	.027	.048	.075	.107	.191	.298	.466				
Throw	0-1-3	1-2-6	2-4-9	4-6-11	5-7-14	6-9-17	8-11-23	9-14-28	12-18-35				
NC	<10	<10	<10	<10	11	15	21	25	29				

SERIES PHP PERFORMANCE DATA MODEL PHPS/PHPSI FOUR SLOT

			CFM/LF	10	15	25	40	60	75	90	120	300
1/2" Slot Width	2' Length 8" Inlet	Horizontal	CFM	100	150	160	200	300	350	400	500	-
			Ps	.033	.074	.084	.131	.295	.401	.524	.819	-
			Pt	.039	.087	.099	.154	.347	.473	.617	.965	-
			Throw	9-12-16	12-14-20	12-15-21	13-16-23	16-20-28	18-22-30	19-23-33	21-26-36	-
			NC	<10	15	17	23	35	39	42	48	-
		Vertical	Ps	.029	.066	.075	.117	.262	.357	.466	.729	-
			Pt	.035	.079	.090	.140	.315	.428	.559	.874	-
			Throw	1-2-8	2-5-12	2-5-12	4-8-16	8-12-20	9-14-21	10-16-23	13-18-25	-
			NC	<10	12	13	20	32	36	39	44	-
		4' Length 10" Inlet	CFM	200	300	320	400	600	700	800	1000	-
			Ps	.032	.072	.082	.129	.289	.394	.514	.803	-
			Pt	.044	.099	.113	.176	.396	.539	.704	1.100	-
			Throw	12-16-23	16-20-28	17-21-29	19-23-33	23-28-40	25-30-43	27-33-46	30-36-51	-
			NC	<10	18	20	26	38	42	45	51	-
			Ps	.029	.064	.073	.114	.257	.350	.457	.714	-
			Pt	.040	.091	.104	.162	.364	.496	.647	1.011	-
			Throw	1-3-11	3-7-16	3-8-17	5-11-22	11-16-28	13-19-30	15-22-32	18-25-36	-
			NC	<10	15	16	23	35	39	42	47	-
	5' Length 10" Inlet	Horizontal	CFM	250	375	400	500	750	875	1000	1250	-
			Ps	.031	.071	.081	.126	.283	.386	.504	.787	-
			Pt	.050	.113	.128	.200	.450	.613	.801	1.251	-
			Throw	13-18-26	18-22-31	19-23-33	21-26-36	26-31-45	28-34-48	30-36-51	33-41-58	-
			NC	11	20	22	28	40	44	47	53	-
		Vertical	Ps	.028	.063	.072	.112	.252	.343	.448	.700	-
			Pt	.047	.105	.119	.186	.419	.570	.745	1.164	-
			Throw	2-4-13	4-9-19	4-10-21	7-13-25	13-19-31	15-22-33	17-25-36	21-28-40	-
			NC	12	17	18	25	37	41	44	49	-
3/4" Slot Width	2' Length 8" Inlet	Horizontal	CFM	100	150	160	200	300	350	400	500	600
			Ps	.025	.057	.065	.101	.228	.311	.406	.634	.913
			Pt	.031	.070	.080	.125	.281	.382	.499	.780	1.123
			Throw	9-12-16	12-14-20	12-15-21	13-16-23	16-20-28	18-22-30	19-23-33	21-26-36	23-28-40
			NC	<10	<10	<10	18	29	33	36	42	46
		Vertical	Ps	.025	.057	.065	.101	.227	.310	.404	.63	.910
			Pt	.031	.070	.080	.124	.280	.381	.498	.777	1.119
			Throw	1-1-5	1-3-10	2-3-11	2-5-13	5-10-20	7-12-21	9-13-23	11-17-25	13-20-28
			NC	<10	<10	<10	16	29	33	37	41	44
	4' Length 10" Inlet	Horizontal	CFM	200	300	320	400	600	700	800	1000	1200
			Ps	.025	.056	.064	.099	.224	.305	.398	.622	.895
			Pt	.037	.083	.094	.147	.331	.450	.588	.919	1.323
			Throw	6-12-23	12-19-28	13-20-29	17-23-33	23-28-40	25-30-43	27-33-46	30-36-51	33-40-56
			NC	<10	14	15	21	32	36	39	45	49
		Vertical	Ps	.025	.056	.063	.099	.223	.304	.396	.620	.892
			Pt	.037	.082	.094	.147	.330	.449	.587	.917	1.320
	5' Length 10" Inlet	Horizontal	Throw	2-5-13	5-10-20	6-11-20	9-13-23	13-20-28	16-21-30	18-23-32	21-25-36	23-28-39
			NC	<10	10	12	19	32	36	40	44	47
		Vertical	CFM	250	375	400	500	750	875	1000	1250	1500
			Ps	.024	.055	.062	.097	.219	.299	.390	.609	.877
			Pt	.043	.097	.110	.172	.386	.526	.687	1.073	1.546
			Throw	15-18-26	18-22-31	19-23-33	21-26-36	26-31-45	28-34-48	30-36-51	33-41-58	36-45-63
			NC	<10	16	17	23	34	38	41	47	51
		Vertical	Ps	.024	.055	.062	.097	.219	.297	.389	.607	.874
			Pt	.043	.096	.110	.171	.386	.525	.686	1.071	1.543
			Throw	4-8-16	8-12-22	9-13-23	11-16-25	16-22-31	19-24-33	21-25-36	23-28-40	25-31-44
			NC	<10	12	14	21	34	38	42	46	49

SERIES PHP PERFORMANCE DATA

MODEL PHPS/PHPSI FOUR SLOT

			CFM/LF	10	15	25	40	60	75	90	120	300
1" Slot Width	2' Length 10" Inlet	Horizontal	CFM	100	150	160	200	300	350	400	500	600
			Ps	.017	.039	.045	.070	.157	.213	.279	.435	.627
			Pt	.020	.046	.052	.082	.183	.250	.326	.510	.734
			Throw	8-12-16	12-14-20	12-15-21	13-16-23	16-20-28	18-22-30	19-23-33	21-26-36	23-28-40
		Vertical	NC	<10	<10	<10	16	29	33	36	41	44
			Ps	.017	.037	.042	.066	.149	.203	.265	.414	.596
			Pt	.020	.044	.050	.078	.176	.239	.312	.488	.703
			Throw	1-2-6	2-3-9	2-4-9	3-6-11	6-9-17	7-10-20	8-11-23	10-14-25	11-17-28
			NC	<10	<10	<10	13	26	31	34	39	43
	4' Length 10" Inlet	Horizontal	CFM	200	300	320	400	600	700	800	1000	1200
			Ps	.017	.038	.044	.068	.154	.209	.273	.427	.615
			Pt	.029	.065	.074	.116	.261	.355	.463	.724	1.042
			Throw	11-16-23	16-20-28	17-21-29	19-23-33	23-28-40	25-30-43	27-33-46	30-36-51	33-40-56
		Vertical	NC	<10	11	13	19	32	36	39	44	47
			Ps	.016	.037	.042	.065	.148	.199	.260	.406	.584
			Pt	.028	.063	.072	.112	.253	.344	.450	.703	1.012
			Throw	1-3-9	3-6-13	3-7-14	5-9-18	9-13-27	10-16-30	12-18-32	15-22-36	18-27-39
			NC	<10	<10	<10	16	29	34	37	42	46
	5' Length 12" Inlet	Horizontal	CFM	250	375	400	500	750	875	1000	1250	1500
			Ps	.017	.038	.043	.067	.151	.205	.268	.418	.602
			Pt	.028	.063	.072	.112	.252	.343	.447	.699	1.007
			Throw	11-17-36	17-22-31	18-23-33	21-26-36	26-31-45	28-34-48	30-36-51	33-41-58	36-45-63
		Vertical	NC	<10	13	15	21	34	38	41	46	49
			Ps	.016	.036	.041	.064	.143	.195	.254	.398	.572
			Pt	.027	.061	.069	.109	.244	.332	.434	.678	.977
			Throw	2-5-12	5-9-18	6-9-19	8-12-24	12-18-31	14-21-33	16-24-36	20-28-40	24-31-44
			NC	<10	10	12	18	31	36	39	44	46
1 1/2" Slot Width	2' Length 10" Inlet	Horizontal	CFM	100	150	160	200	300	350	400	500	600
			Ps	.016	.037	.042	.066	.148	.202	.264	.414	.593
			Pt	.019	.044	.050	.078	.175	.238	.311	.486	.700
			Throw	6-10-16	10-14-20	10-15-21	13-16-23	16-20-28	18-22-30	19-23-33	21-26-36	23-28-40
		Vertical	NC	<10	<10	<10	10	19	23	27	33	38
			Ps	.012	.028	.032	.050	.112	.152	.198	.310	.446
			Pt	.015	.035	.039	.061	.138	.188	.246	.384	.553
			Throw	1-1-3	1-2-4	1-2-5	2-3-6	3-4-9	3-5-10	4-6-12	5-7-15	6-9-18
			NC	<10	<10	<10	<10	12	17	21	27	31
	4' Length 12" Inlet	Horizontal	CFM	200	300	320	400	600	700	800	1000	1200
			Ps	.016	.036	.041	.065	.145	.198	.258	.404	.581
			Pt	.023	.053	.060	.093	.210	.286	.373	.583	.840
			Throw	4-8-21	8-16-28	10-17-29	14-21-33	21-28-40	25-30-43	27-33-46	30-36-51	33-40-56
		Vertical	NC	<10	<10	<10	13	22	26	30	36	41
			Ps	.012	.027	.031	.049	.109	.149	.194	.304	.437
			Pt	.019	.044	.050	.077	.174	.237	.309	.483	.696
			Throw	1-2-4	2-3-6	2-3-7	3-4-9	4-6-13	5-8-15	6-9-17	7-11-22	9-13-26
			NC	<10	<10	<10	<10	15	20	24	30	34
	5' Length 12" Inlet	Horizontal	CFM	250	375	400	500	750	875	1000	1250	1500
			Ps	.016	.036	.041	.063	.142	.194	.253	.396	.570
			Pt	.027	.061	.069	.108	.244	.331	.433	.676	.974
			Throw	7-14-26	14-21-31	15-22-33	19-26-36	26-31-45	28-34-48	30-36-51	33-41-58	36-45-63
		Vertical	NC	<10	11	12	15	24	28	32	38	43
			Ps	.012	.027	.030	.048	.107	.146	.191	.298	.429
			Pt	.023	.052	.059	.093	.208	.283	.370	.578	.833
			Throw	1-3-6	3-4-9	3-5-9	4-6-11	6-9-17	7-10-20	8-11-23	9-14-28	11-17-34
			NC	<10	<10	<10	<10	17	22	26	32	36

PLENUM SLOT
DIFFUSERS

PLENUM DIFFUSERS WITH
ADJUSTABLE PATTERN
CONTROLLERS

PHPS

PERFORMANCE NOTES FOR SERIES PHP MODEL PHPS/PHPSI

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

Pt Total pressure (inches of water column)

Ps Static pressure = $P_t - P_v$ (inches of water column)

Throw Isothermal throw (supply air temperature the same as average room temperature);
values are for 150, 100 and 50fpm velocities

NC Noise criterion, sound pressure level NC ratings are based on sound power
level (Lw) re: 10^{-12} watts minus a 10dB room attenuation in all octave bands