

### PERFORMANCE DATA

#### PDSP/PDSPE - 12 in. x 12 in.

Inlet Size	Neck Velocity (fpm) Velocity Pressure (in. w.g.)	300 0.006	400 0.010	500 0.016	600 0.022	700 0.031	800 0.040	900 0.050	1000 0.062	1200 0.090
6 Ø	Total Pressure (in. w.g.)	0.020	0.033	0.052	0.072	0.102	0.131	0.164	0.203	0.295
	Flow Rate (cfm)	59	79	98	118	137	157	177	196	236
	Sound (NC)	-	-	-	20	26	30	34	37	43
	Throw (ft.)	1-3-7	2-4-9	4-6-10	4-7-10	5-8-11	6-9-12	7-9-13	7-10-14	9-10-15
6 x 6	Total Pressure (in. w.g.)	0.021	0.034	0.055	0.075	0.106	0.137	0.171	0.212	0.308
	Flow Rate (cfm)	75	100	125	150	175	200	225	250	300
	Sound (NC)	-	-	16	22	27	32	36	39	45
	Throw (ft.)	1-3-7	2-5-9	4-6-10	5-7-11	5-8-12	6-9-13	7-10-14	8-10-15	9-11-16

#### PDSP/PDSPE - 24 in. x 24 in.

Inlet Size	Neck Velocity (fpm) Velocity Pressure (in. w.g.)	300 0.006	400 0.01	500 0.016	600 0.022	700 0.031	800 0.04	900 0.05	1000 0.062	1200 0.09	1400 0.122
6 x 6	Total Pressure (in. w.g.)	0.021	0.034	0.055	0.075	0.106	0.137	0.171	0.212	0.308	0.417
	Flow Rate (cfm)	75	100	125	150	175	200	225	250	300	350
	Sound (NC)	-	-	16	22	27	32	36	39	45	50
	Throw (ft.)	1-3-7	2-5-9	4-6-10	5-7-11	5-8-12	6-9-13	7-10-14	8-10-15	9-11-16	10-12-17
8 x 8	Total Pressure (in. w.g.)	0.023	0.038	0.061	0.083	0.118	0.152	0.190	0.235	0.341	0.463
	Flow Rate (cfm)	133	178	222	267	311	356	400	444	533	622
	Sound (NC)	-	-	20	26	32	36	40	43	49	55
	Throw (ft.)	2-4-8	3-5-10	4-7-12	5-8-13	6-9-14	7-10-15	8-12-16	9-12-17	10-13-19	12-14-20
10 x 10	Total Pressure (in. w.g.)	0.025	0.041	0.066	0.090	0.127	0.164	0.206	0.255	0.37	0.502
	Flow Rate (cfm)	208	278	347	417	486	556	625	694	833	972
	Sound (NC)	-	16	24	30	35	39	43	47	53	58
	Throw (ft.)	2-4-9	3-6-12	5-7-14	6-9-15	7-10-16	8-12-18	9-13-19	10-14-20	12-15-21	13-16-23
12 x 12	Total Pressure (in. w.g.)	0.026	0.044	0.070	0.097	0.136	0.176	0.220	0.272	0.395	0.536
	Flow Rate (cfm)	300	400	500	600	700	800	900	1000	1200	1400
	Sound (NC)	-	19	26	32	38	42	46	49	55	61
	Throw (ft.)	2-5-10	4-6-13	5-8-15	6-10-17	7-11-18	9-13-20	10-14-21	11-15-22	13-17-24	15-18-26
6 Ø	Total Pressure (in. w.g.)	0.020	0.033	0.052	0.072	0.102	0.131	0.164	0.203	0.295	0.400
	Flow Rate (cfm)	59	79	98	118	137	157	177	196	236	275
	Sound (NC)	-	-	-	20	26	30	34	37	43	49
	Throw (ft.)	1-3-7	2-4-9	4-6-10	4-7-10	5-8-11	6-9-12	7-9-13	7-10-14	9-10-15	9-11-16
8 Ø	Total Pressure (in. w.g.)	0.022	0.036	0.058	0.080	0.113	0.145	0.182	0.225	0.327	0.443
	Flow Rate (cfm)	105	140	175	209	244	279	314	349	419	489
	Sound (NC)	-	-	19	25	30	34	38	42	48	53
	Throw (ft.)	1-3-7	3-5-10	4-6-11	5-7-12	6-9-13	7-10-14	7-11-15	8-11-16	10-12-18	11-13-19
10 Ø	Total Pressure (in. w.g.)	0.024	0.039	0.063	0.087	0.122	0.157	0.197	0.244	0.354	0.480
	Flow Rate (cfm)	164	218	273	327	382	436	491	545	654	764
	Sound (NC)	-	-	22	28	33	38	41	45	51	56
	Throw (ft.)	2-4-8	3-5-11	5-7-13	5-8-14	6-10-15	7-11-16	8-12-17	9-13-18	11-14-20	12-15-22
12 Ø	Total Pressure (in. w.g.)	0.025	0.042	0.067	0.092	0.130	0.168	0.210	0.261	0.378	0.513
	Flow Rate (cfm)	236	314	393	471	550	628	707	785	942	1100
	Sound (NC)	-	17	25	31	36	40	44	48	54	59
	Throw (ft.)	2-4-9	3-6-12	5-8-14	6-9-16	7-11-17	8-12-18	9-14-19	10-14-20	12-16-22	14-17-24
14 Ø	Total Pressure (in. w.g.)	0.027	0.044	0.071	0.098	0.138	0.178	0.222	0.275	0.400	0.542
	Flow Rate (cfm)	321	428	535	641	748	855	962	1069	1283	1497
	Sound (NC)	-	19	27	33	38	42	46	50	56	61
	Throw (ft.)	2-5-10	4-7-13	5-8-16	7-10-17	8-11-19	9-13-20	10-15-21	11-16-22	13-17-24	15-19-26
15 Ø	Total Pressure (in. w.g.)	0.027	0.046	0.073	0.100	0.141	0.182	0.228	0.282	0.410	0.556
	Flow Rate (cfm)	368	491	614	736	859	982	1104	1227	1473	1718
	Sound (NC)	-	21	28	34	39	44	47	51	57	62
	Throw (ft.)	2-5-10	4-7-14	6-8-16	7-10-18	8-12-19	9-14-21	10-15-22	11-16-23	14-18-25	16-19-27
16 Ø	Total Pressure (in. w.g.)	0.028	0.047	0.075	0.103	0.145	0.186	0.233	0.289	0.420	0.569
	Flow Rate (cfm)	419	559	698	838	977	1117	1257	1396	1676	1955
	Sound (NC)	-	21	29	35	40	44	48	52	58	63
	Throw (ft.)	3-5-10	5-7-14	6-9-17	7-10-19	8-12-20	9-14-22	10-16-23	12-17-24	14-19-26	16-20-29

#### Performance Notes:

- Tested in accordance with ASHRAE Standard 70 – 2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Airflow is in cfm.
- All pressures are in in. w.g.
- Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle), and 50 fpm (maximum).
- Throw data is based on supply air and room air being at isothermal conditions.
- NC, sound pressure levels, are based on room absorption of 10 dB re 10<sup>-12</sup> Watts and one diffuser.
- Blanks "-" indicate an NC level below 15.
- Data does not include effects of ceiling radiation damper (PDSP-FR, PDSPE-FR).