

PERFORMANCE DATA

PDC/PDCE - 12 in. x 12 in.

Inlet Size	Neck Velocity (fpm) Velocity Pressure (in. w.g.)	300 .006	400 .010	500 .016	600 .022	700 .031	800 .040	1000 .062	1200 .090	
6 Ø	Total Pressure (in. w.g.)	0.015	0.027	0.042	0.061	0.083	0.108	0.169	0.243	
	Flow Rate (cfm)	59	78	98	118	137	157	196	235	
	Sound (NC)	-	-	-	18	23	28	35	42	
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	3-4-7 3-4-8 3-4-9 4-5-11	3-5-8 4-5-10 4-6-10 5-7-14	4-6-8 4-7-11 5-7-11 6-9-18	5-7-9 5-8-12 6-9-12 7-11-21	6-7-10 6-9-13 7-9-13 8-12-23	6-8-11 7-10-14 8-10-14 9-14-25	7-8-12 9-11-16 9-11-16 12-18-28	8-9-13 10-12-17 10-12-17 14-21-30
	Total Pressure (in. w.g.)	0.016	0.028	0.044	0.063	0.086	0.112	0.175	0.252	
Flow Rate (cfm)	75	100	125	150	175	200	250	300		
Sound (NC)	-	-	-	19	24	29	37	43		
6 x 6	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	3-5-7 3-5-10 4-6-10 4-7-13	4-6-8 4-7-11 5-7-11 6-9-18	5-7-9 5-8-13 6-9-13 7-11-22	6-7-10 7-10-14 7-10-14 9-13-24	6-8-11 8-11-15 9-11-15 10-15-26	7-8-12 9-11-16 9-11-16 12-18-28	8-9-13 10-13-18 10-13-18 15-22-31	8-10-15 11-14-20 11-14-20 18-24-34

PDC/PDCE - 16 in. x 16 in.

Inlet Size	Neck Velocity (fpm) Velocity Pressure (in. w.g.)	300 .006	400 .010	500 .016	600 .022	700 .031	800 .040	900 .050	1000 .062	1200 .090	1400 .122	
6 Ø	Total Pressure (in. w.g.)	0.015	0.027	0.042	0.061	0.083	0.108	0.137	0.169	0.243	0.330	
	Flow Rate (cfm)	59	78	98	118	137	157	176	196	235	274	
	Sound (NC)	59	78	98	118	137	157	176	196	235	274	
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	2-3-5 2-3-7 2-4-7 2-4-9	3-4-6 3-4-9 3-5-9 4-6-12	3-5-7 4-5-10 4-6-10 5-7-15	4-5-8 4-7-11 5-7-11 6-9-18	5-6-8 5-8-12 6-8-12 7-10-20	5-6-9 6-9-12 7-9-12 8-12-21	5-7-9 7-9-13 7-9-13 9-13-23	6-7-10 7-10-14 8-10-14 10-15-24	6-8-11 9-11-15 9-11-15 12-18-26	7-8-12 9-12-16 9-12-16 14-20-28
	Total Pressure (in. w.g.)	0.016	0.028	0.044	0.063	0.086	0.112	0.142	0.175	0.252	0.343	
Flow Rate (cfm)	75	100	125	150	175	200	225	250	300	350		
Sound (NC)	-	-	-	19	24	29	33	37	43	48		
6 x 6	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	3-4-6 3-4-8 3-5-9 3-6-11	3-5-7 4-5-10 4-6-10 5-7-15	4-6-8 5-7-11 5-8-11 6-9-18	5-6-9 5-8-12 6-9-12 7-11-21	5-7-9 6-9-13 7-9-13 9-13-22	6-7-10 7-10-14 8-10-14 10-15-24	6-8-11 8-11-15 9-11-16 11-17-25	6-8-11 9-11-16 10-12-17 12-18-27	7-9-12 10-12-17 10-12-17 15-21-29	8-9-13 11-13-19 11-13-19 17-22-32
	Total Pressure (in. w.g.)	0.017	0.029	0.046	0.066	0.090	0.118	0.149	0.184	0.265	0.361	
	Flow Rate (cfm)	105	140	175	209	244	279	314	349	419	489	
	Sound (NC)	-	-	-	21	26	31	35	38	44	50	
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	4-5-7 4-6-10 4-6-10 5-7-15	5-6-8 5-7-12 6-8-12 7-10-20	5-7-9 6-9-13 7-9-13 8-12-22	6-7-10 7-10-14 8-10-14 10-15-25	6-8-11 9-11-15 9-11-15 12-17-27	7-8-12 10-12-17 10-12-17 13-20-28	7-9-13 10-12-18 10-12-18 15-21-30	8-9-13 11-13-18 11-13-18 17-22-32	8-10-14 12-14-20 12-14-20 20-25-35	9-11-1 13-15-22 13-15-22 22-27-38
8 x 8	Total Pressure (in. w.g.)	0.017	0.031	0.048	0.069	0.094	0.122	0.155	0.191	0.275	0.374	
	Flow Rate (cfm)	105	140	175	209	244	279	314	349	419	489	
	Sound (NC)	-	-	-	21	26	31	35	38	44	50	
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	4-6-8 5-7-11 5-8-11 6-9-18	5-7-9 6-9-13 7-9-13 8-12-23	6-7-11 8-10-15 9-10-15 10-15-25	7-8-12 9-11-16 9-11-16 12-18-28	7-9-12 10-12-17 10-12-17 14-21-30	8-9-13 11-13-19 11-13-19 16-23-32	8-10-14 11-14-20 11-14-20 18-24-34	9-11-15 12-15-21 12-15-21 20-25-36	9-12-16 13-16-23 13-16-23 23-28-39	10-12-18 14-17-25 14-17-25 24-30-42
	Total Pressure (in. w.g.)	0.018	0.032	0.050	0.072	0.098	0.128	0.162	0.200	0.287	0.391	
Flow Rate (cfm)	164	218	273	327	382	436	491	545	654	763		
Sound (NC)	-	-	17	23	28	33	37	40	47	52		
10 Ø	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	5-6-9 5-8-13 6-9-13 7-11-22	6-7-10 7-10-15 8-10-15 10-15-25	7-8-12 9-12-16 9-12-16 12-18-28	7-9-13 10-13-18 10-13-18 15-22-31	8-10-14 11-14-19 11-14-19 17-23-33	9-10-15 12-15-21 12-15-21 20-25-35	9-11-16 13-16-22 13-16-22 22-27-38	10-12-17 13-16-23 13-16-23 23-28-40	10-13-18 15-18-25 15-18-25 25-31-43	11-14-20 16-19-27 16-19-27 27-33-47
	Total Pressure (in. w.g.)	0.018	0.032	0.049	0.071	0.097	0.126	0.160	0.197	0.284	0.386	
	Flow Rate (cfm)	164	218	273	327	382	436	491	545	654	763	
	Sound (NC)	-	-	17	23	28	33	37	40	47	52	
	Throw (ft.)	4 Way 3 Way 2 Way 1 Way	6-7-10 7-10-14 8-10-14 9-13-24	7-8-12 9-12-16 10-12-16 12-18-28	8-9-13 11-13-18 11-13-18 15-22-32	8-10-14 12-14-20 12-14-20 18-24-35	9-11-16 13-15-22 13-15-22 21-26-37	10-12-17 13-16-23 13-16-23 23-28-40	10-12-18 14-17-25 14-17-25 24-30-42	11-13-19 15-18-26 15-18-26 26-32-45	12-14-20 16-20-29 16-20-29 28-35-49	13-16-22 18-22-31 18-22-31 31-37-53

Performance Notes:

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

PERFORMANCE DATA

PDC/PDCE - 24 in. x 24 in.

Inlet Size	Neck Velocity (fpm) Velocity Pressure (in. w.g.)	300	400	500	600	700	800	900	1000	1200	1400	
6 in.	Total Pressure (in. w.g.)	0.015	0.027	0.042	0.061	0.083	0.108	0.137	0.169	0.243	0.330	
	Flow Rate (cfm)	59	78	98	118	137	157	176	196	235	274	
	Sound (NC)	-	-	-	18	23	28	32	35	42	47	
	Throw (ft.)	4 Way	2-3-5	3-4-6	3-5-7	4-5-8	5-6-8	5-6-9	5-7-9	6-7-10	6-8-11	7-8-12
	3 Way	2-3-6	3-4-8	3-5-10	4-6-11	5-7-12	5-8-12	6-9-13	7-10-14	8-11-15	8-11-15	9-12-16
	2 Way	2-4-7	3-5-9	4-6-10	5-7-11	6-8-12	7-9-12	7-9-13	8-10-14	9-11-15	9-11-15	9-12-16
1 Way	2-4-8	3-5-11	4-7-13	5-8-16	6-9-19	7-11-21	8-12-23	9-13-24	11-16-26	13-19-28		
6 in. x 6 in.	Total Pressure (in. w.g.)	0.016	0.028	0.044	0.063	0.086	0.112	0.142	0.175	0.252	0.343	
	Flow Rate (cfm)	75	100	125	150	175	200	225	250	300	350	
	Sound (NC)	-	-	-	19	24	29	33	37	43	48	
	Throw (ft.)	4 Way	2-4-6	3-5-7	4-6-8	5-6-9	5-7-9	6-7-10	6-8-11	6-8-11	7-9-12	8-9-13
	3 Way	3-4-8	3-5-10	4-6-11	5-8-12	6-9-13	7-10-14	8-11-15	8-11-16	10-12-17	11-13-19	
	2 Way	3-4-9	4-6-10	5-7-11	6-9-12	7-9-13	8-10-14	9-11-15	9-11-16	10-12-17	11-13-19	
1 Way	2-5-10	4-7-14	6-8-17	7-10-20	8-12-22	9-14-24	10-15-25	11-17-27	14-20-29	16-22-32		
8 in.	Total Pressure (in. w.g.)	0.017	0.029	0.046	0.066	0.090	0.118	0.149	0.184	0.265	0.361	
	Flow Rate (cfm)	105	140	175	209	244	279	314	349	419	489	
	Sound (NC)	-	-	-	21	26	31	35	38	44	50	
	Throw (ft.)	4 Way	3-5-7	4-6-8	5-7-9	6-7-10	6-8-11	7-8-12	7-9-13	8-9-13	8-10-14	9-11-16
	3 Way	3-5-10	5-7-12	6-9-13	7-10-14	8-11-15	9-12-17	10-12-18	11-13-18	12-14-20	13-15-22	
	2 Way	4-6-10	5-8-12	6-9-13	8-10-14	9-11-15	10-12-17	10-12-18	11-13-18	12-14-20	13-15-22	
1 Way	4-7-14	6-9-18	8-11-22	9-14-25	11-16-27	12-18-28	14-21-30	15-22-32	18-25-35	21-27-38		
8 in. x 8 in.	Total Pressure (in. w.g.)	0.017	0.031	0.048	0.069	0.094	0.122	0.155	0.191	0.275	0.374	
	Flow Rate (cfm)	105	140	175	209	244	279	314	349	419	489	
	Sound (NC)	-	-	-	21	26	31	35	38	44	50	
	Throw (ft.)	4 Way	4-6-8	5-7-9	6-7-11	7-8-12	7-9-12	8-9-13	8-10-14	9-11-15	9-12-16	10-12-18
	3 Way	4-6-11	6-8-13	7-10-15	8-11-16	10-12-17	11-13-19	11-14-20	12-15-21	13-16-23	14-17-25	
	2 Way	5-7-11	6-9-13	8-10-15	9-11-16	10-12-17	11-13-19	11-14-20	12-15-21	13-16-23	14-17-25	
1 Way	6-9-17	8-11-23	9-14-25	11-17-28	13-20-30	15-23-32	17-24-34	19-25-36	23-28-39	24-30-42		
10 in.	Total Pressure (in. w.g.)	0.018	0.032	0.050	0.072	0.098	0.128	0.162	0.200	0.287	0.391	
	Flow Rate (cfm)	164	218	273	327	382	436	491	545	654	763	
	Sound (NC)	-	-	17	23	28	33	37	40	47	52	
	Throw (ft.)	4 Way	5-6-9	6-7-10	7-8-12	7-9-13	8-10-14	9-10-15	9-11-16	10-12-17	10-13-18	11-14-20
	3 Way	5-8-13	7-10-15	8-12-16	10-13-18	11-14-19	12-15-21	13-16-22	13-16-23	15-18-25	16-19-27	
	2 Way	6-9-13	8-10-15	9-12-16	10-13-18	11-14-19	12-15-21	13-16-22	13-16-23	15-18-25	16-19-27	
1 Way	7-10-20	9-14-25	11-17-28	14-20-31	16-23-33	18-25-35	20-27-38	23-28-40	25-31-43	27-33-47		
10 in. x 10 in.	Total Pressure (in. w.g.)	0.018	0.032	0.049	0.071	0.097	0.126	0.160	0.197	0.284	0.386	
	Flow Rate (cfm)	164	218	273	327	382	436	491	545	654	763	
	Sound (NC)	-	-	17	23	28	33	37	40	47	52	
	Throw (ft.)	4 Way	6-7-10	7-8-12	8-9-13	8-10-14	9-11-16	10-12-17	10-12-18	11-13-19	12-14-20	13-16-22
	3 Way	6-9-14	8-12-16	10-13-18	12-14-20	13-15-22	13-16-23	14-17-25	15-18-26	16-20-29	18-22-31	
	2 Way	7-10-14	9-12-16	11-13-18	12-14-20	13-15-22	13-16-23	14-17-25	15-18-26	16-20-29	18-22-31	
1 Way	8-13-24	11-17-28	14-21-32	17-24-35	20-26-37	22-28-40	24-30-42	26-32-45	28-35-49	31-37-53		
12 in.	Total Pressure (in. w.g.)	0.019	0.033	0.052	0.075	0.102	0.133	0.169	0.208	0.300	0.409	
	Flow Rate (cfm)	236	314	393	471	550	628	707	785	942	1099	
	Sound (NC)	-	-	19	25	30	35	39	42	48	54	
	Throw (ft.)	4 Way	6-8-11	7-9-13	8-10-14	9-11-15	10-12-17	10-13-18	11-13-19	11-14-20	13-15-22	14-17-23
	3 Way	7-10-15	9-12-18	11-14-20	12-15-21	13-16-23	14-18-25	15-19-26	16-20-28	18-21-30	19-23-33	
	2 Way	8-11-15	10-12-18	11-14-20	12-15-21	13-16-23	14-18-25	15-19-26	16-20-28	18-21-30	19-23-33	
1 Way	9-14-26	12-19-30	15-23-34	19-26-37	22-28-40	25-30-43	26-32-45	27-34-48	30-37-52	32-40-56		
12 in. x 12 in.	Total Pressure (in. w.g.)	0.019	0.035	0.054	0.078	0.106	0.138	0.175	0.216	0.312	0.424	
	Flow Rate (cfm)	300	400	500	600	700	800	900	1000	1200	1400	
	Sound (NC)	-	-	20	26	31	36	40	44	50	55	
	Throw (ft.)	4 Way	7-9-12	8-10-14	9-11-16	10-12-17	11-13-19	12-14-20	12-15-21	13-16-22	14-17-24	15-19-26
	3 Way	8-12-17	11-14-20	13-16-22	14-17-24	15-19-26	16-20-28	17-21-30	18-22-31	20-24-34	21-26-37	
	2 Way	10-12-17	11-14-20	13-16-22	14-17-24	15-19-26	16-20-28	17-21-30	18-22-31	20-24-34	21-26-37	
1 Way	11-17-29	15-23-34	19-27-38	23-29-42	26-32-45	28-34-48	29-36-51	31-38-54	34-42-59	37-45-63		

For performance data, see end of section

